

City of Taunton, Massachusetts

Main Lift Pump Station Improvements



Mayor

Shaunna O'Connell

Department of Public Works

Frederic J. Cornaglia - Commissioner

Anthony Abreau - Assistant Commissioner

City Engineer

Mike Patneade, P.E.

City Council

Phillip Duarte

Barry Sanders

Jeff Postell

John M. McCaul

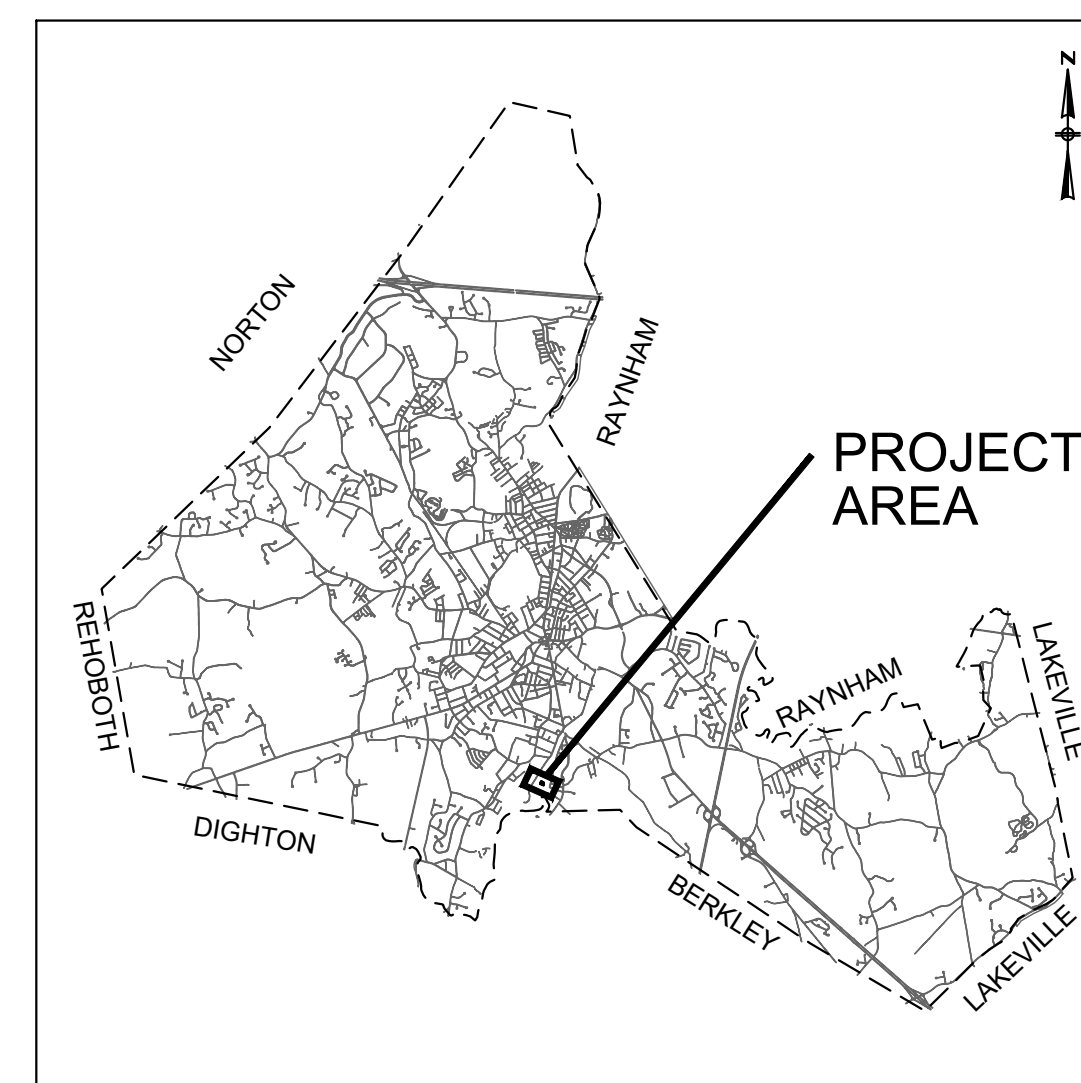
David Pottier

Lawrence J Quintal

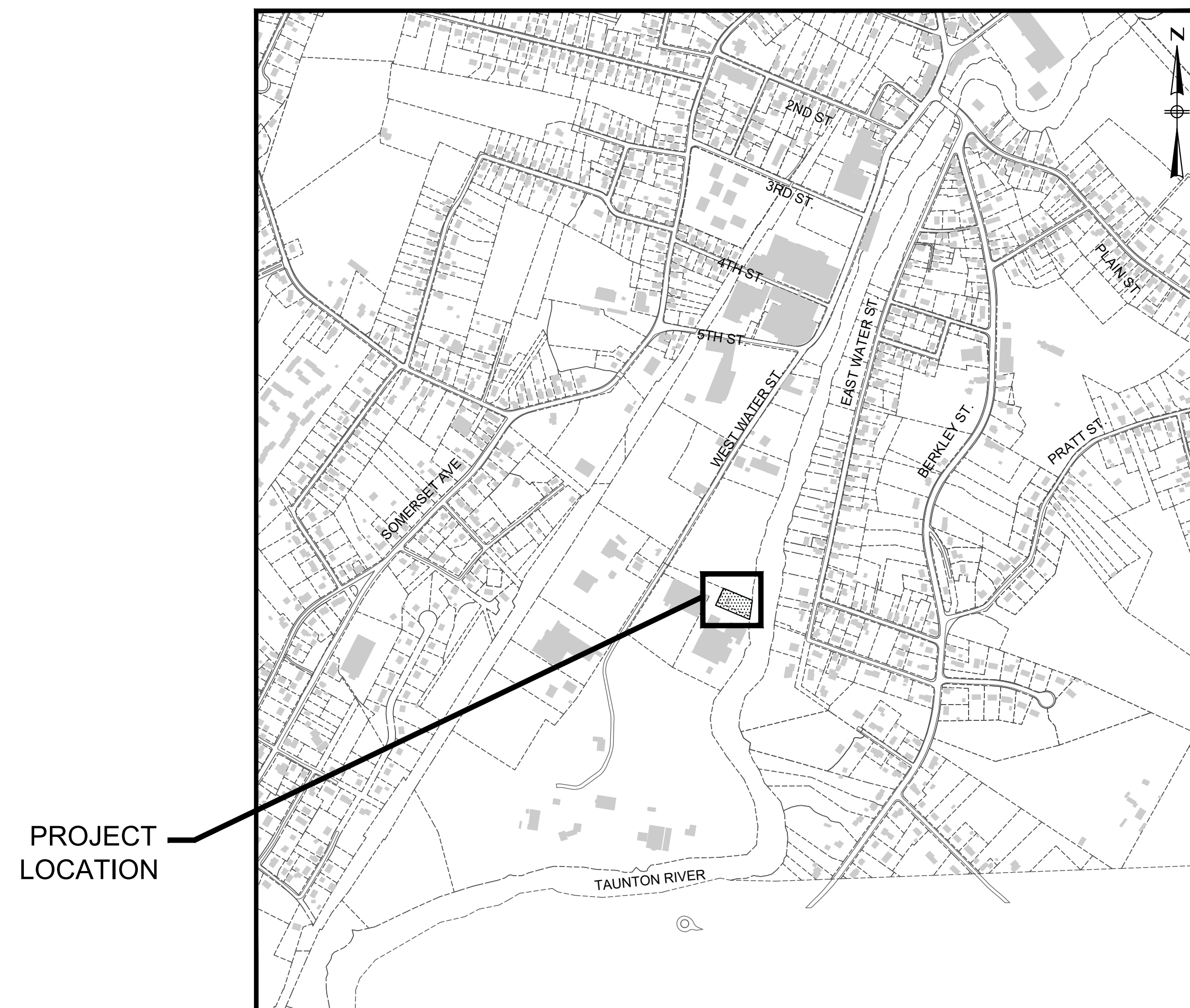
Chris Coute

Kelly A Dooner

Estele Borges



LOCATION MAP
NOT TO SCALE



PROJECT LOCATION

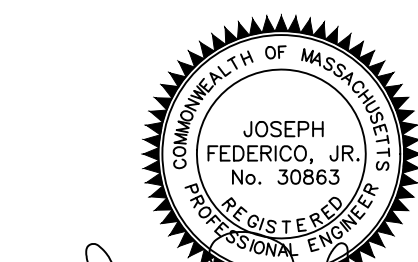
PROJECT LOCATION

LOCUS MAP
NOT TO SCALE

Contract S-2022-2
CWSRF No. 6832

Issue Date:

March 31, 2022



Joseph Federico Jr.

Prepared By:



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LEGEND - EXISTING

| | |
|---|--|
| CONTOUR - MAJOR | |
| CONTOUR - MINOR | |
| PARCEL LINE | |
| PAVED DRIVE | |
| FENCE | |
| SHEETING | |
| COAST LINE | |
| DRAIN LINE | |
| ELECTRIC LINE | |
| GAS LINE | |
| SEWER LINE | |
| FORCE MAIN | |
| WATER LINE | |
| DRAIN MANHOLE | |
| CATCH BASIN | |
| SEWER MANHOLE | |
| WATER GATE | |
| HYDRANT | |
| UTILITY POLE | |
| UTILITY LIGHT POLE | |
| LIGHT POLE | |
| SIGN | |
| MAG NAIL | |
| MONITORING WELL | |
| TREELINE/TREE | |
| BUILDINGS | |
| PAVEMENT | |
| WETLAND DELINEATION W/ FLAGS | |
| 100-FT. WETLAND BUFFER | |
| 25-FT RIVER FRONT AREA | |
| 100-FT COASTAL BANK BUFFER | |
| 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 | OHW |
| STONE RETAINING WALL | SRW |
| VENT PIPE | VP |
| VERTICAL GRANITE CURB | VGC |

LEGEND - PROPOSED

| | |
|-------------------------------|--|
| EROSION CONTROL | |
| WATER LINE | |
| WATER VALVE | |
| HYDRANT | |
| CHAIN LINK FENCE | |
| LIMITS OF TEMPORARY EASEMENTS | |
| LIMITS OF PERMANENT EASEMENTS | |

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

DRAWING INDEX & LEGEND

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SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

G-1

GENERAL CIVIL NOTES

- 1. SURVEY INFORMATION:
 -TOPOGRAPHIC SURVEY COMPLETED BY LIGHTHOUSE LAND SURVEYING LLC BETWEEN JANUARY 13, 2017 THRU JANUARY 20, 2017. PROPERTY LINES AND ABUTTING OWNER INFORMATION OBTAINED FROM THE "OFFICE OF GEOGRAPHIC INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS, 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 UNDERGROUND STRUCTURES AND/OR UTILITIES SHOWN ON THESE PLANS ARE FROM THE BEST SOURCES AVAILABLE AT PRESENT AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES, UTILITIES OR STRUCTURES ARE SHOWN. EXACT LOCATION TO BE DETERMINED BY CONTRACTOR IN FIELD.
- 3. EXISTING UTILITIES DEPICTED ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY ALL UTILITY COMPANIES (PUBLIC 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 AT ALL TIMES BY THE CONTRACTOR. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO INTERFERE AS LITTLE AS POSSIBLE WITH EXISTING UTILITIES. PAYMENT FOR PROVIDING SAID PROTECTION AND SUPPORTS SHALL BE CONSIDERED A PART OF AND PAID FOR UNDER THE APPROPRIATE ITEMS UNLESS OTHERWISE INDICATED AND/OR DIRECTED BY THE OWNER. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION BY REASON OF DELAY AND/OR INCONVENIENCE IN ADAPTING HIS OPERATIONS ACCORDINGLY.
- 5. ALL DIMENSIONS AND JOB RELATED CONDITIONS ARE TO BE VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES FOUND ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER AND PROPERLY RESOLVED BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. CONTINUATION WITH 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 SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. FINAL RESTORATION SHALL BE EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION AS DETERMINED SOLELY BY THE OWNER/ENGINEER.
- 7. WORK PERFORMED BY THE CONTRACTOR SHALL NOT INTERFERE WITH WASTEWATER FLOWS THROUGH THE PUMPING STATION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY EQUIPMENT, PIPING, FITTINGS AND APPURTENANCES NECESSARY TO COMPLETE THIS CONTRACT. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TEMPORARY UNIT BYPASS-LINES UNTIL THE MODIFICATIONS AND CONSTRUCTION ARE COMPLETE.
- 8. THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE INDICATED LIMITS OF WORK AS SHOWN IN THE CONTRACT DRAWINGS. ALL SURFACES DAMAGED 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 MATERIAL ACCORDING TO THE LAWS OF THE MUNICIPALITY IN WHICH THE WORK IS BEING DONE AND THE COMMONWEALTH OF MASSACHUSETTS. ALL DEMOLITION MATERIAL INCLUDING PUMPS, PIPE, AND BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MADEP REQUIREMENTS AND DISPOSED OF ACCORDINGLY. ONCE CLEANED, DEMOLITION MATERIALS SHALL NOT BE CONSIDERED SPECIAL WASTE.
- 10. GENERAL CONTRACTOR SHALL COORDINATE WITH THEIR ELECTRICAL SUBCONTRACTOR AND DEFINE THE SCOPE OF WORK IDENTIFIED IN DIVISION 16, TO BE COMPLETED BY THE GC.

SEQUENCE OF CONSTRUCTION

- GENERAL NOTES**
- 1. THE CONTRACTOR SHALL BE AWARE THAT THE CITY OF TAUNTON HAS OTHER CONSTRUCTION PROJECTS ONGOING AT THE CITY OF TAUNTON WASTEWATER TREATMENT FACILITY. THE CONTRACTOR WITHOUT CLAIM SHALL BE REQUIRED TO COORDINATE HIS WORK WITH OTHER CONTRACTORS TO ENSURE NO CONFLICTS OCCUR.
 - 2. 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.
 - 3. 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.
 - 4. 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

- 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 TO THE PERFORMANCE OF WORK ON THE PROPERTY.
- 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 THEIR 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.

RESTORATION OF PRIVATE PROPERTY

- 1. TEMPORARY EASEMENT (CONSTRUCTION EQUIPMENT STAGING AREA - BAY STATE CRUCIBLE PROPERTY) - GRADE EXISTING GRAVEL SMOOTH TO DRAIN
- 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 TO THE OWNER.

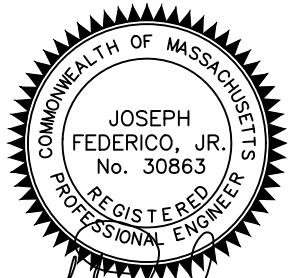
YARD PIPING NOTES

- 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 UNDERGROUND PIPES AND STRUCTURES.
- 2. THE CONTRACTOR SHALL CONDUCT TEST PITS, AS REQUIRED, IN ORDER TO ASCERTAIN THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 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 STAINLESS STEEL BOLTS AND NUTS.
- 5. ALL PIPING SHALL BE PROVIDED WITH FLEXIBLE CONNECTIONS WHERE EXITING OR ENTERING STRUCTURES AND BUILDINGS. FLEXIBLE CONNECTIONS SHALL BE COORDINATED WITH PIPE MANUFACTURER AND APPROVED BY THE ENGINEER.

PREPARED BY



REGISTERED PROFESSIONAL



Joseph Federico Jr.

SUBCONSULTANT

PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**GENERAL
NOTES**

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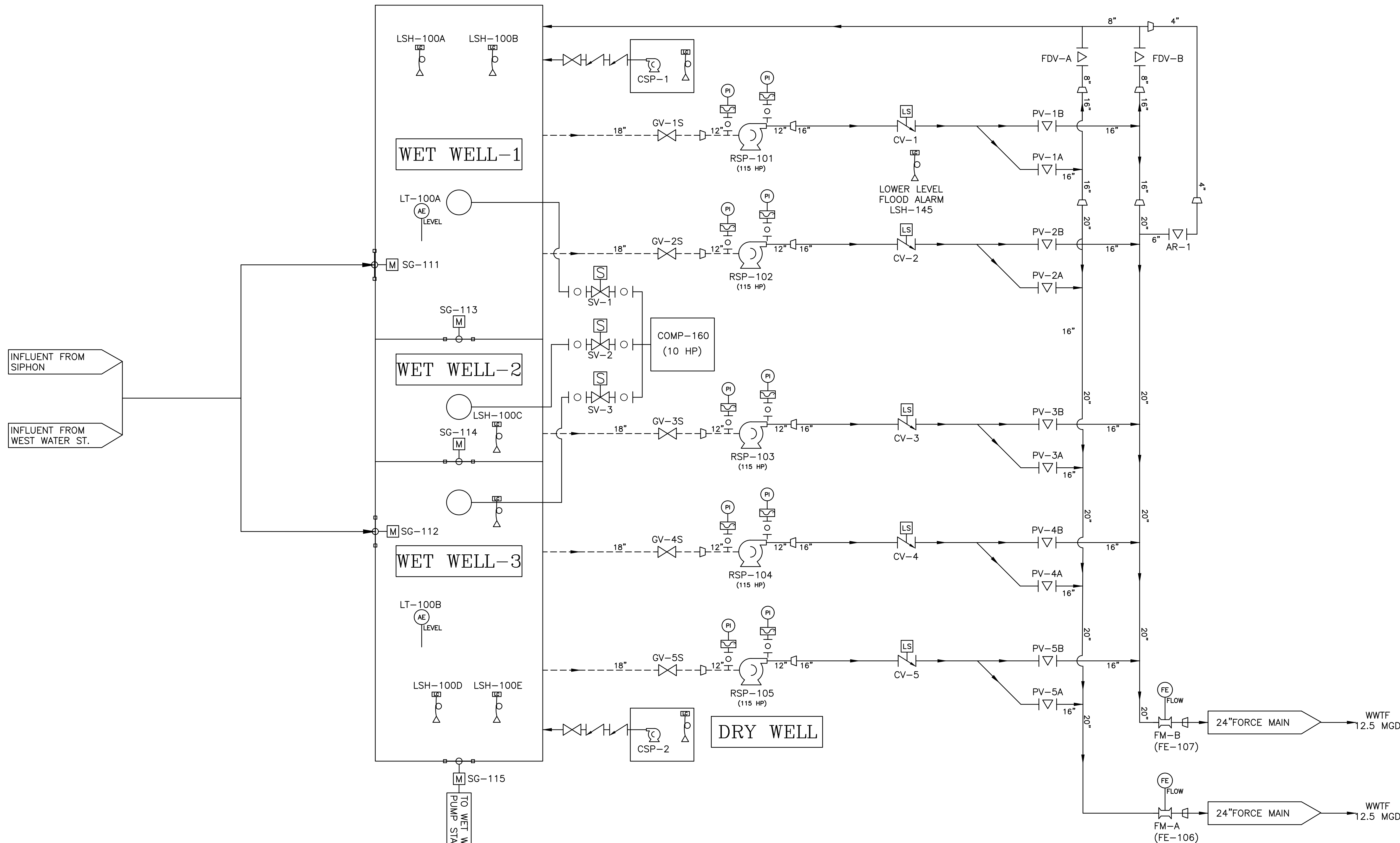
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| CHECKED BY: | CC |
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| BETA JOB NO.: | 5530 |

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NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO. **G-2**



LEGEND

SYMBOLS

- | | | | | | |
|--|-------------------|--|------------------|--|--------------------------------|
| | BALL VALVE | | FLOWMETER | | ANALOG ELEMENT W/DESCRIPTION |
| | PLUG VALVE | | SUCTION PIPING | | FLOAT TYPE LEVEL SENSOR |
| | CHECK VALVE | | DISCHARGE PIPING | | PRESSURE INDICATOR W/DIAPHRAGM |
| | GATE VALVE | | REDUCER | | |
| | SLUICE/SLIDE GATE | | CENTRIFUGAL PUMP | | |
| | MOTOR ACTUATOR | | SOLENOID VALVE | | |
| | LIMIT SWITCH | | | | |

ABBREVIATIONS

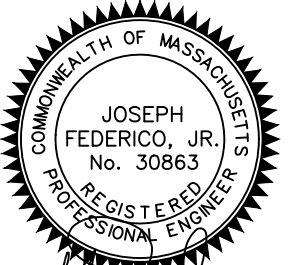
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|------|-----------------------|-----|--------------------|
| AR | AIR RELEASE | M | MOTOR OPERATED |
| COMP | COMPRESSOR | PCV | PUMP CONTROL VALVE |
| CSP | CENTRIFUGAL SUMP PUMP | PI | PRESSURE INDICATOR |
| CV | CHECK VALVE | PV | PLUG VALVE |
| DWF | DRY WELL FLOOD | SG | SLUICE GATE |
| FDV | FORCEMAIN DRAIN VALVE | SP | SEWAGE PUMP |
| FE | FLOW ELEMENT | SV | SOLENOID VALVE |
| FM | FLOWMETER | WWF | WET WELL FLOOD |

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REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**PROCESS
FLOW
DIAGRAM**

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DRAWN BY: BM

DESIGNED BY: A/JG

CHECKED BY: CC

ISSUE DATE: 3/31/2022

BETA JOB NO.: 5530

SCALE

NONE

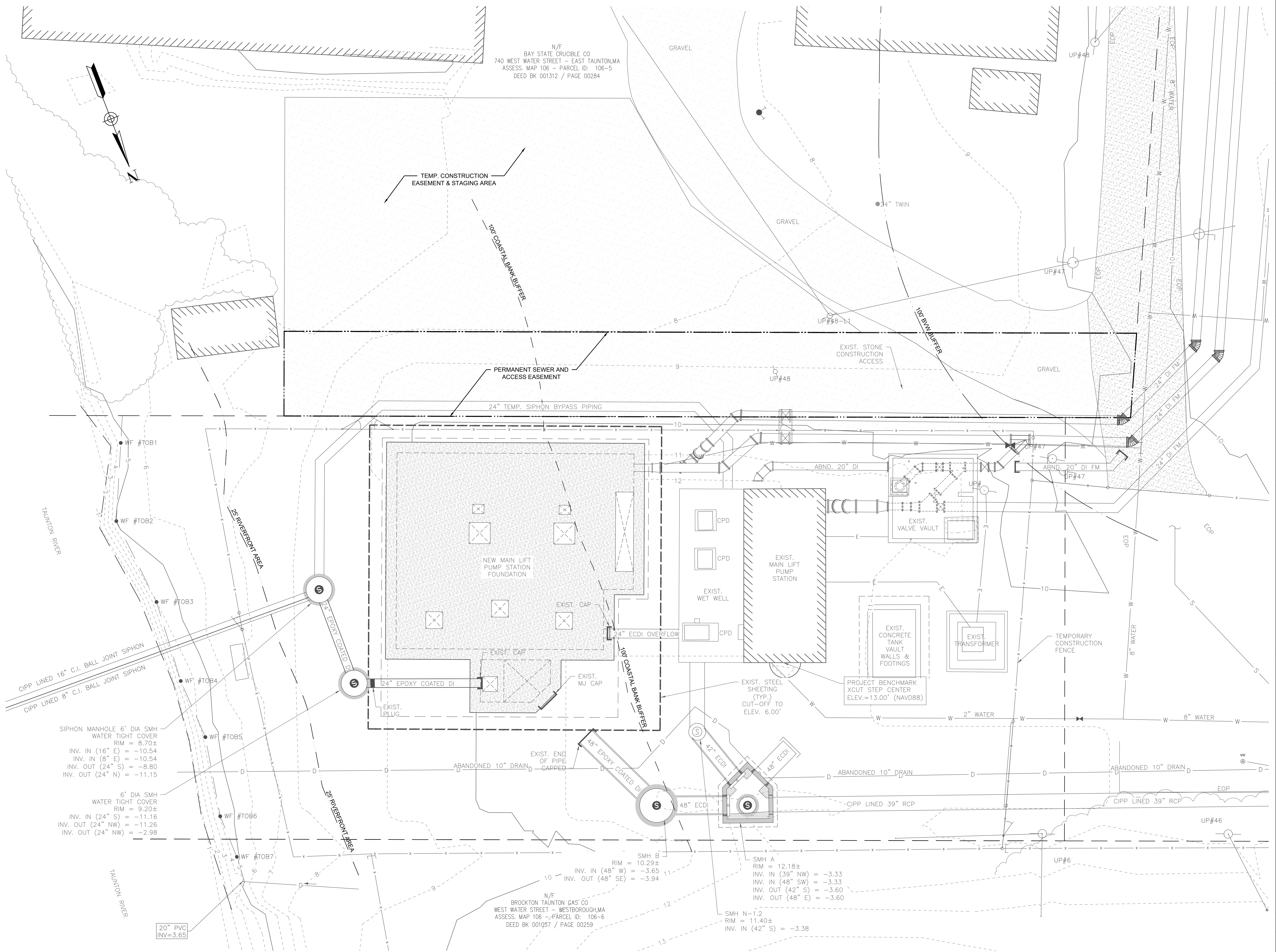
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SHEET NO. **G-3**

3/28/2022 11:00 AM - J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWINGS\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT SITE PLAN - EXISTING CONDITIONS.DWG

N/F
BAY STATE CRUCIBLE CO
740 WEST WATER STREET - EAST TAUNTON, MA
ASSESS. MAP 106 - PARCEL ID: 106-5
DEED BK 001312 / PAGE 00284

N/F
BROCKTON TAUNTON GAS CO
WEST WATER STREET - WESTBOROUGH, MA
ASSESS. MAP 106 - PARCEL ID: 106-6
DEED BK 001057 / PAGE 00259



SIPHON MANHOLE 6" DIA SMH
WATER TIGHT COVER
RIM = 8.70±
INV. IN (16" E) = -10.54
INV. IN (8" E) = -10.54
INV. OUT (24" S) = -8.80
INV. OUT (24" N) = -11.15

6" DIA SMH
WATER TIGHT COVER
RIM = 9.20±
INV. IN (24" S) = -11.16
INV. OUT (24" NW) = -11.26
INV. OUT (24" SW) = -2.98

SMH B
RIM = 10.29±
INV. IN (48" W) = -3.65
INV. OUT (48" SE) = -3.94

SMH A
RIM = 12.18±
INV. IN (39" NW) = -3.33
INV. IN (48" SW) = -3.33
INV. OUT (42" S) = -3.60
INV. OUT (48" E) = -3.60

SMH N-1.2
RIM = 11.40±
INV. IN (42" S) = -3.38

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REGISTERED PROFESSIONAL

JOSEPH FEDERICO, JR.
No. 30863
REGISTERED PROFESSIONAL ENGINEER

Joseph Federico Jr.

SUBCONSULTANT

PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**EXISTING CONDITIONS
SITE PLAN**

| NO. | REVISIONS | DATE |
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ISSUE DATE: 3/31/2022
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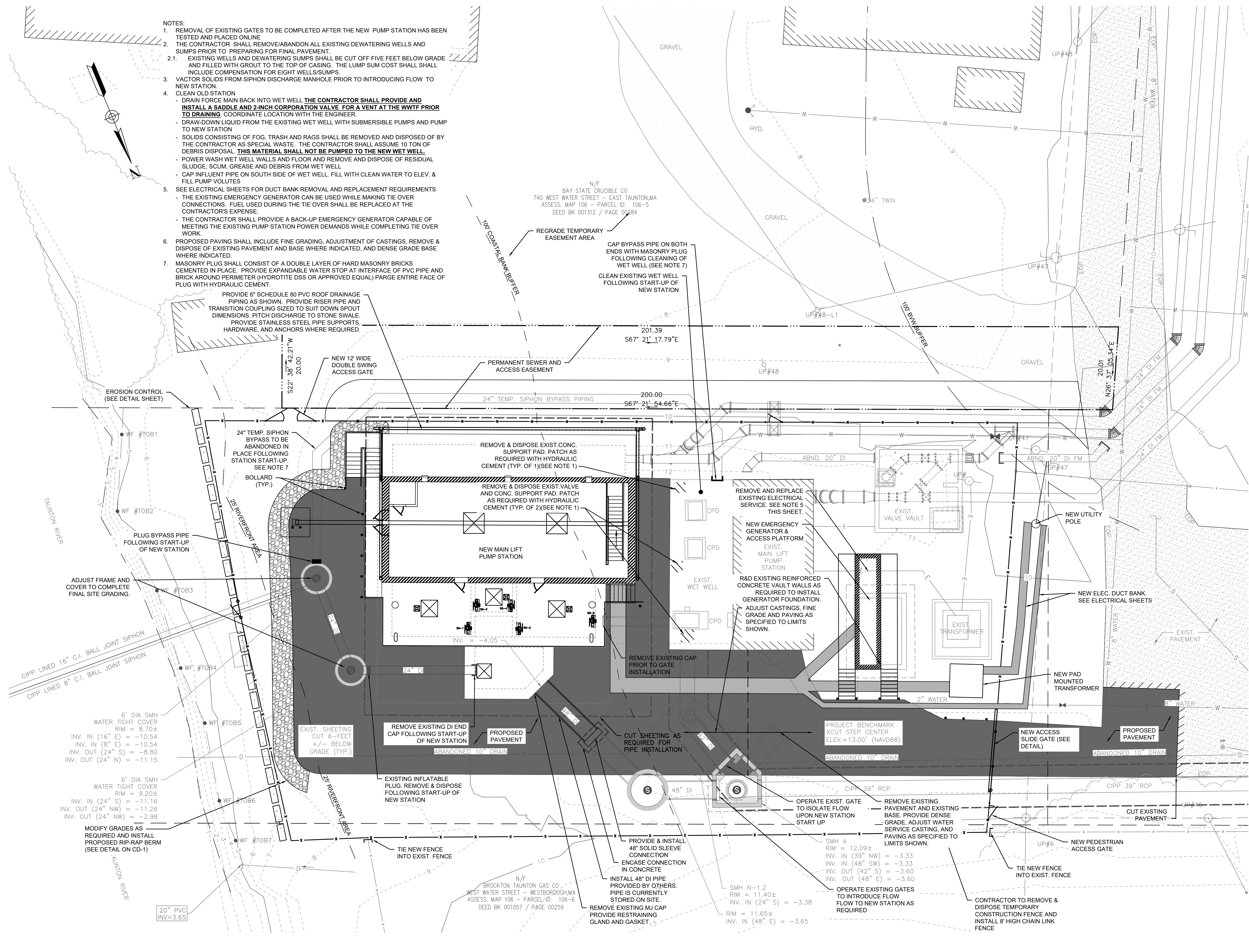
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C-1

3/28/2022 11:00 AM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWINGS\FILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT CONTRACT\SITE PLAN - PROPOSED.DWG

- NOTES:
- REMOVAL OF EXISTING GATES TO BE COMPLETED AFTER THE NEW PUMP STATION HAS BEEN TESTED AND PLACED ONLINE.
 - THE CONTRACTOR SHALL REMOVE/ABANDON ALL EXISTING DEWATERING WELLS AND SUMPS PRIOR TO PREPARING FOR FINAL PAVEMENT.
 - EXISTING WELLS AND DEWATERING SUMPS SHALL BE CUT OFF FIVE FEET BELOW GRADE AND FILLED WITH GROUT TO THE TOP OF CASING. THE LUMP SUM COST SHALL INCLUDE COMPENSATION FOR EIGHT WELLS/SUMPS.
 - VECTOR SOLIDS FROM SIPHON DISCHARGE MAN-HOLE PRIOR TO INTRODUCING FLOW TO NEW STATION.
 - CLEAN OLD STATION
 - DRAIN FOR MAIN BACK INTO WET WELL THE CONTRACTOR SHALL PROVIDE AND INSTALL A SADDLE AND 2-INCH CORPORATION VALVE FOR A VENT AT THE WWTF PRIOR TO DRAINING. COORDINATE LOCATION WITH THE ENGINEER.
 - DRAW-DOWN LIQUID FROM THE EXISTING WET WELL WITH SUBMERSIBLE PUMPS AND PUMP TO NEW STATION
 - SOLIDS CONSISTING OF FOG, TRASH AND RAGS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AS SPECIAL WASTE. THE CONTRACTOR SHALL ASSUME 10 TON OF DEBRIS DISPOSAL. **THIS MATERIAL SHALL NOT BE PUMPED TO THE NEW WET WELL.**
 - 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 VOLUMES
 - SEE ELECTRICAL SHEETS FOR DUCT BANK REMOVAL AND REPLACEMENT REQUIREMENTS
 - THE EXISTING EMERGENCY GENERATOR CAN BE USED WHILE MAKING TIE OVER CONNECTIONS. FUEL USED DURING THE TIE OVER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL PROVIDE A BACK-UP EMERGENCY GENERATOR CAPABLE OF MEETING THE EXISTING PUMP STATION POWER DEMANDS WHILE COMPLETING TIE OVER WORK
 - PROPOSED PAVING SHALL INCLUDE FINE GRADING, ADJUSTMENT OF CASTINGS, REMOVE & DISPOSE OF EXISTING PAVEMENT AND BASE WHERE INDICATED, AND DENSE GRADE BASE WHERE INDICATED.
 - MASONRY PLUG SHALL CONSIST OF A DOUBLE LAYER OF HARD MASONRY BRICKS CEMENTED IN PLACE. PROVIDE EXPANDABLE WATER STOP AT INTERFACE OF PVC PIPE AND BRICK AROUND PERIMETER (HYDROTITE DSS OR APPROVED EQUAL) PARGE ENTIRE FACE OF PLUG WITH HYDRAULIC CEMENT.
 - PROVIDE 6" SCHEDULE 80 PVC ROOF DRAINAGE PIPING AS SHOWN. PROVIDE RISER PIPE AND TRANSITION COUPLING SIZED TO SUIT DOWN SPOUT DIMENSIONS. PITCH DISCHARGE TO STONE SWALE. PROVIDE STAINLESS STEEL PIPE SUPPORTS, HARDWARE, AND ANCHORS WHERE REQUIRED.



PREPARED BY
BETA
 www.BETA-Inc.com

REGISTERED PROFESSIONAL

 Joseph Federico, Jr.

SUBCONSULTANT

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE
PROPOSED SITE PLAN

| NO. | REVISIONS | DATE |
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SHEET NO.
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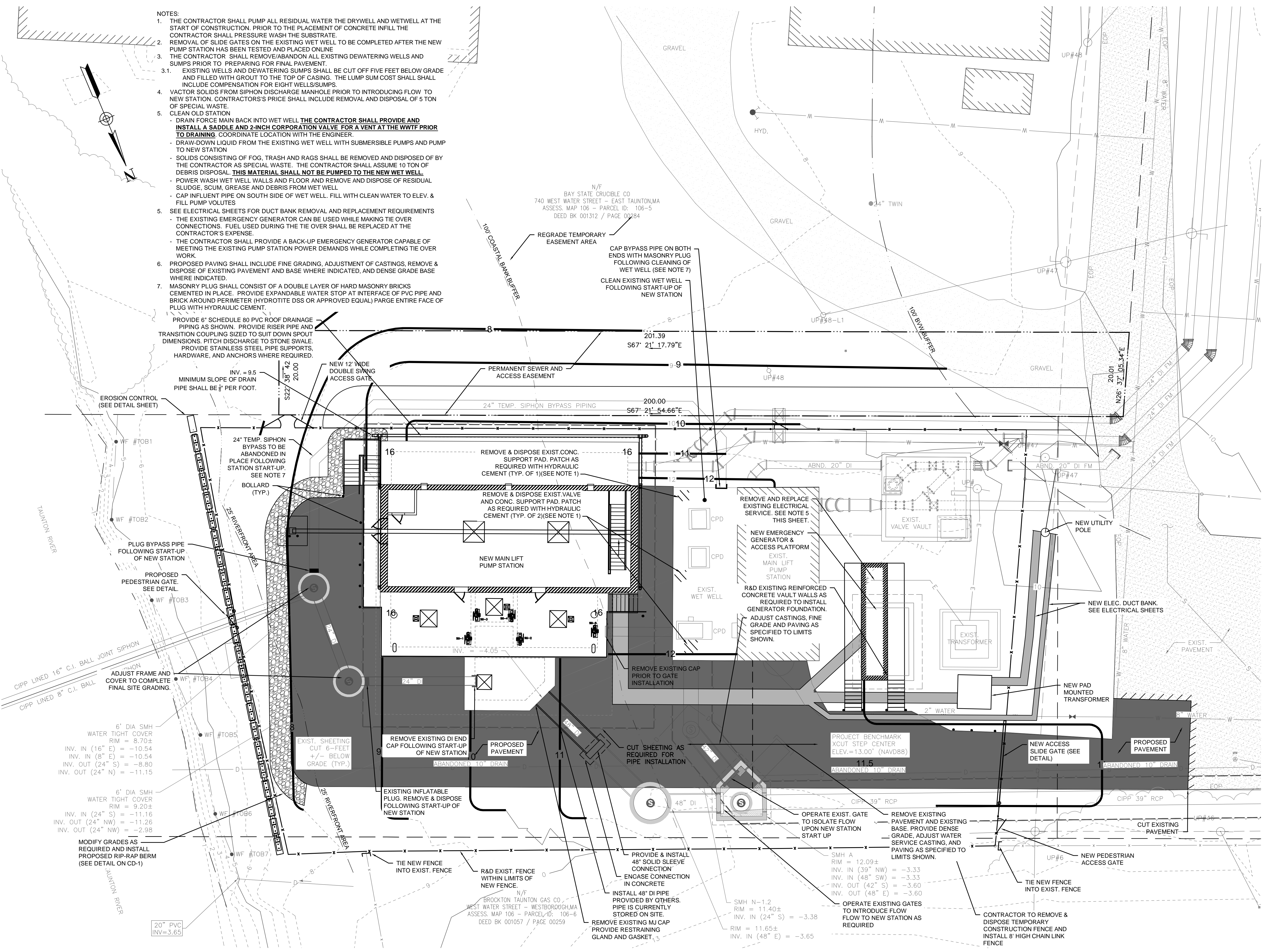
4/18/2022 1:54 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWINGS\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT SITE PLAN - PROPOSED.DWG

NOTES:

1. THE CONTRACTOR SHALL PUMP ALL RESIDUAL WATER THE DRYWELL AND WETWELL AT THE START OF CONSTRUCTION. PRIOR TO THE PLACEMENT OF CONCRETE INFILL THE CONTRACTOR SHALL PRESSURE WASH THE SUBSTRATE.
2. REMOVAL OF SLIDE GATES ON THE EXISTING WET WELL TO BE COMPLETED AFTER THE NEW PUMP STATION HAS BEEN TESTED AND PLACED ONLINE.
3. THE CONTRACTOR SHALL REMOVE/ABANDON ALL EXISTING DEWATERING WELLS AND SUMPS PRIOR TO PREPARING FOR FINAL PAVEMENT.
- 3.1. EXISTING WELLS AND DEWATERING SUMPS SHALL BE CUT OFF FIVE FEET BELOW GRADE AND FILLED WITH GROUT TO THE TOP OF CASING. THE LUMP SUM COST SHALL INCLUDE COMPENSATION FOR EIGHT WELLS/SUMPS.
4. VACTOR SOLIDS FROM SIPHON DISCHARGE MANHOLE PRIOR TO INTRODUCING FLOW TO NEW STATION. CONTRACTOR'S PRICE SHALL INCLUDE REMOVAL AND DISPOSAL OF 5 TON OF SPECIAL WASTE.
5. CLEAN OLD STATION
 - DRAIN FORCE MAIN BACK INTO WET WELL. **THE CONTRACTOR SHALL PROVIDE AND INSTALL A SADDLE AND 2-INCH CORPORATION VALVE FOR A VENT AT THE WWTF PRIOR TO DRAINING.** COORDINATE LOCATION WITH THE ENGINEER.
 - DRAW-DOWN LIQUID FROM THE EXISTING WET WELL WITH SUBMERSIBLE PUMPS AND PUMP TO NEW STATION
 - SOLIDS CONSISTING OF FOG, TRASH AND RAGS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AS SPECIAL WASTE. THE CONTRACTOR SHALL ASSUME 10 TON OF DEBRIS DISPOSAL. **THIS MATERIAL SHALL NOT BE PUMPED TO THE NEW WET WELL**
 - 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
5. SEE ELECTRICAL SHEETS FOR DUCT BANK REMOVAL AND REPLACEMENT REQUIREMENTS
 - THE EXISTING EMERGENCY GENERATOR CAN BE USED WHILE MAKING THE OVER CONNECTIONS. FUEL USED DURING THE TIE OVER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL PROVIDE A BACK-UP EMERGENCY GENERATOR CAPABLE OF MEETING THE EXISTING PUMP STATION POWER DEMANDS WHILE COMPLETING TIE OVER WORK.
6. PROPOSED PAVING SHALL INCLUDE FINE GRADING, ADJUSTMENT OF CASTINGS, REMOVE & DISPOSE OF EXISTING PAVEMENT AND BASE WHERE INDICATED, AND DENSE GRADE BASE WHERE INDICATED.
7. MASONRY PLUG SHALL CONSIST OF A DOUBLE LAYER OF HARD MASONRY BRICKS CEMENTED IN PLACE. PROVIDE EXPANDABLE WATER STOP AT INTERFACE OF PVC PIPE AND BRICK AROUND PERIMETER (HYDROTITE DSS OR APPROVED EQUAL) PARGE ENTIRE FACE OF PLUG WITH HYDRAULIC CEMENT.

PROVIDE 6" SCHEDULE 80 PVC ROOF DRAINAGE PIPING AS SHOWN. PROVIDE RISER PIPE AND TRANSITION COUPLING SIZED TO SUIT DOWN SPOUT DIMENSIONS. PITCH DISCHARGE TO STONE SWALE. PROVIDE STAINLESS STEEL PIPE SUPPORTS, HARDWARE, AND ANCHORS WHERE REQUIRED.

MINIMUM SLOPE OF DRAIN PIPE SHALL BE 1/8" PER FOOT.



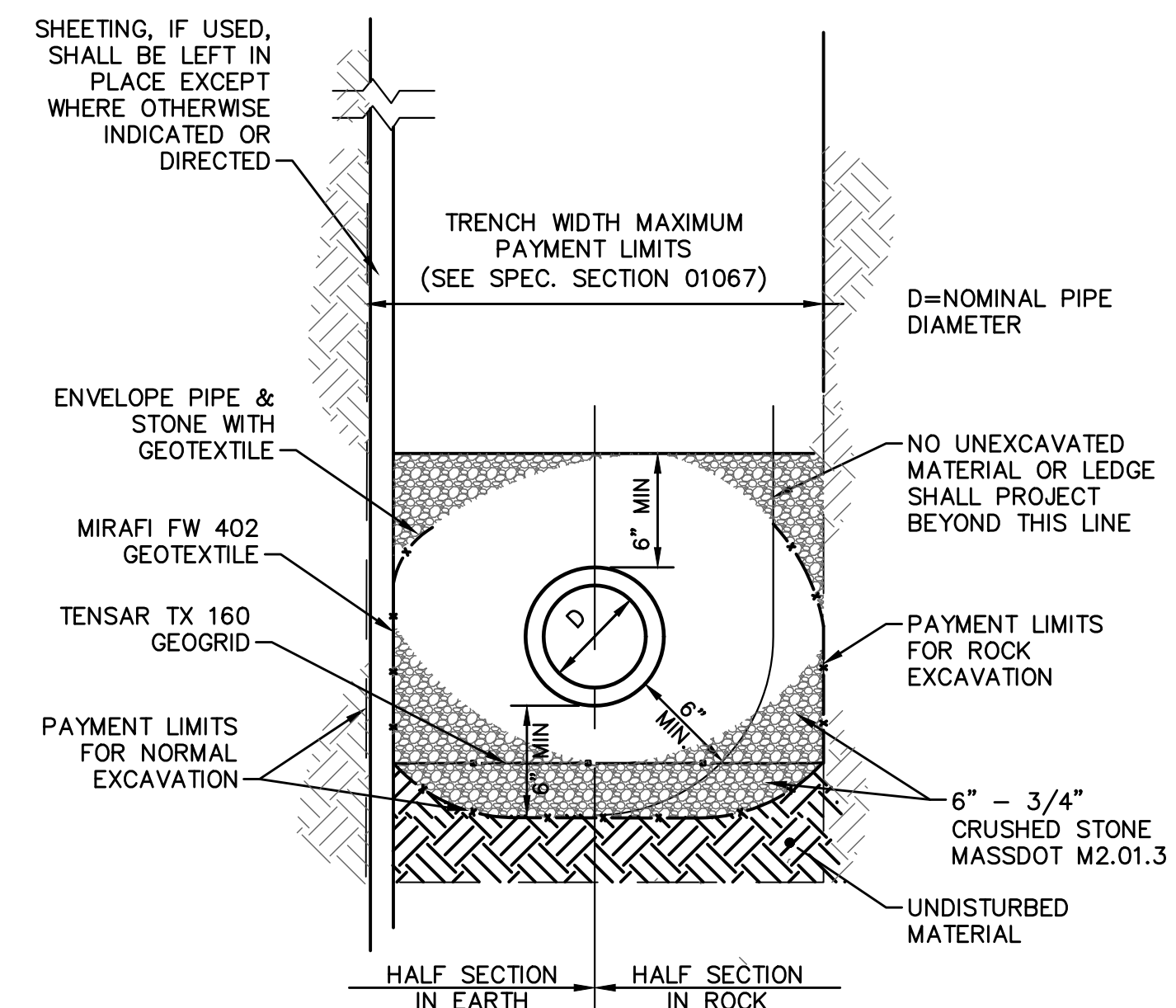
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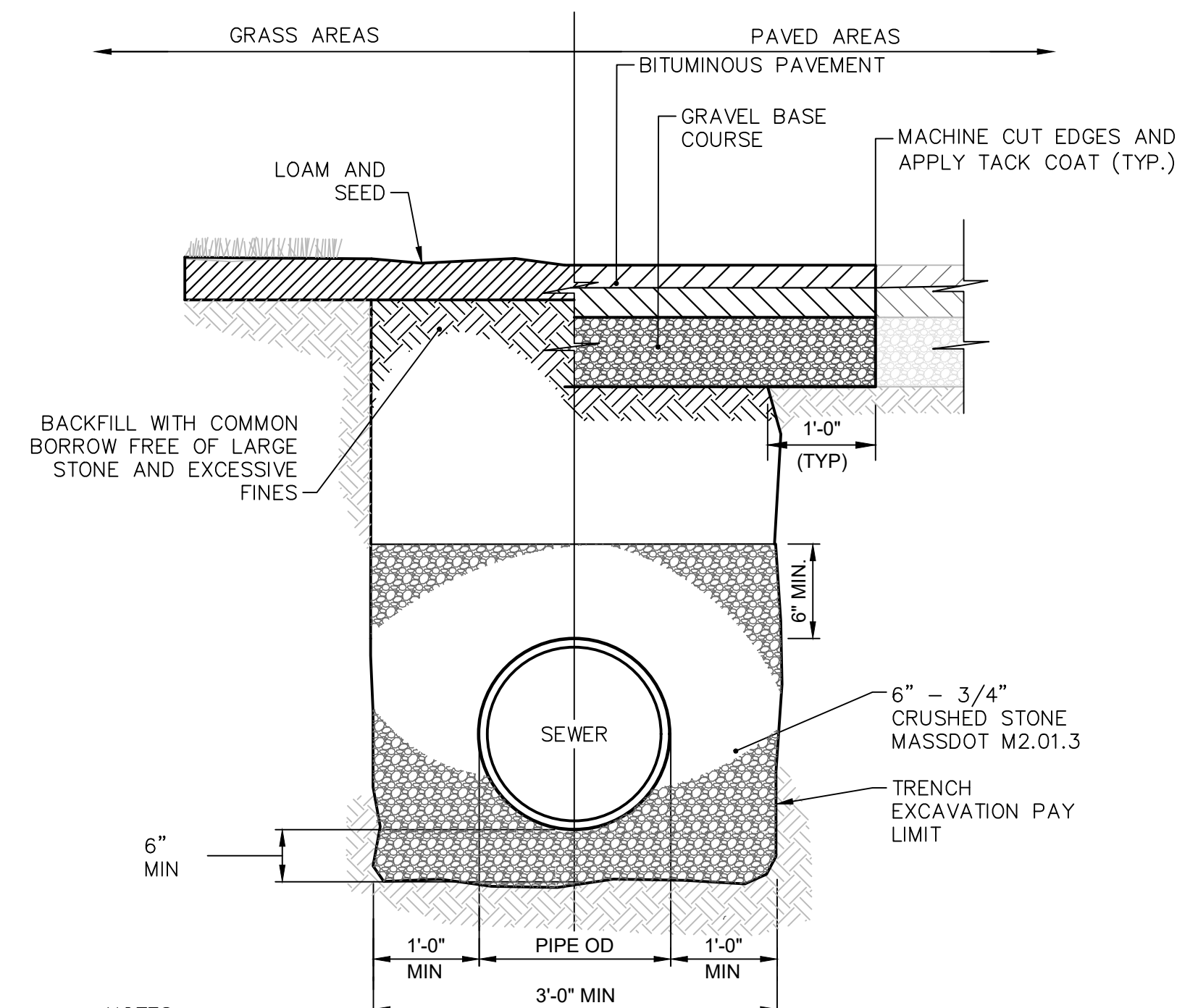
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SHEET NO.
C-2



GRAVITY SEWER TRENCH

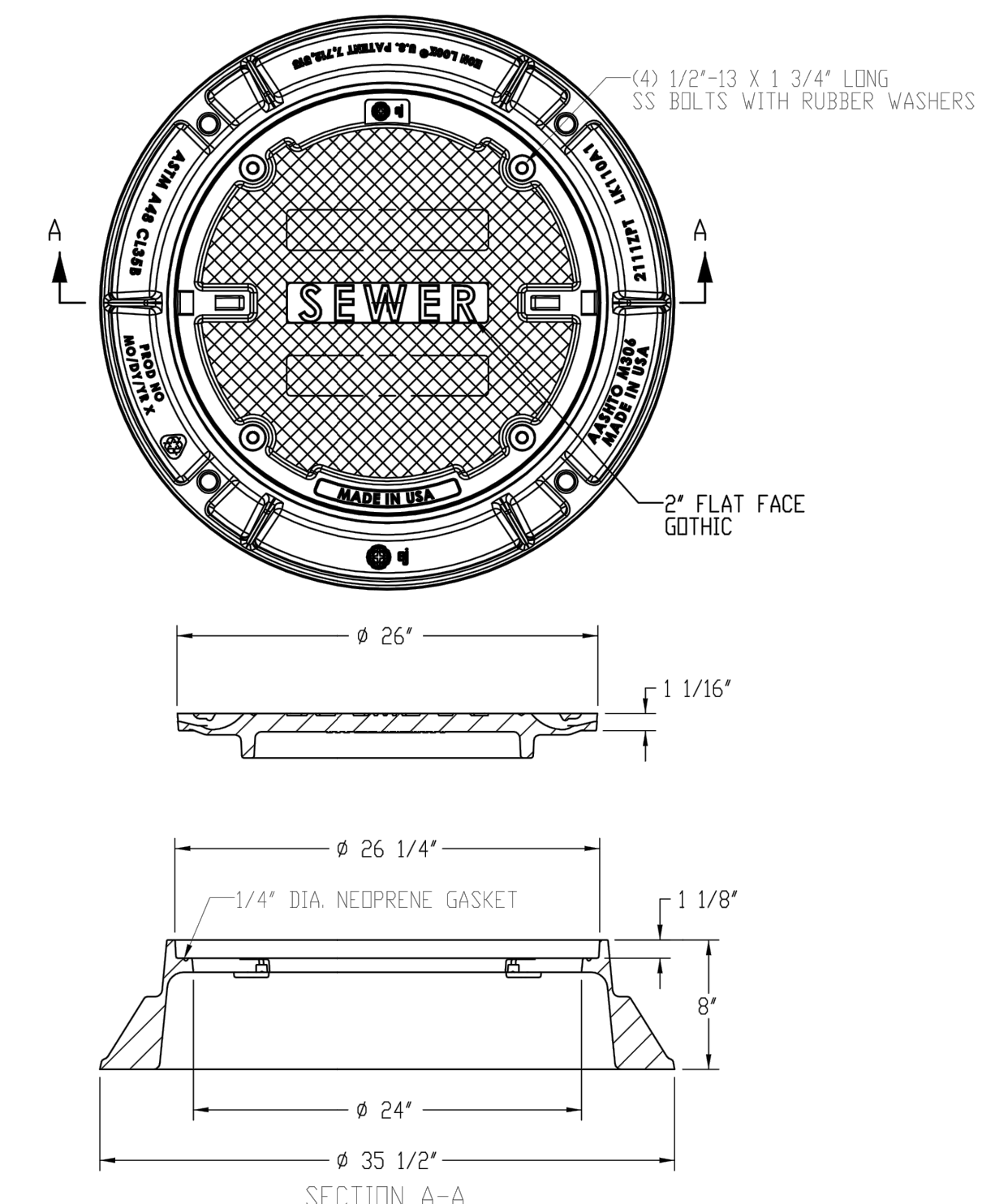
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- NOTES:
- WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
 - 3/4" DIA CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

PIPE & BACKFILL DETAIL

SCALE: NOT TO SCALE

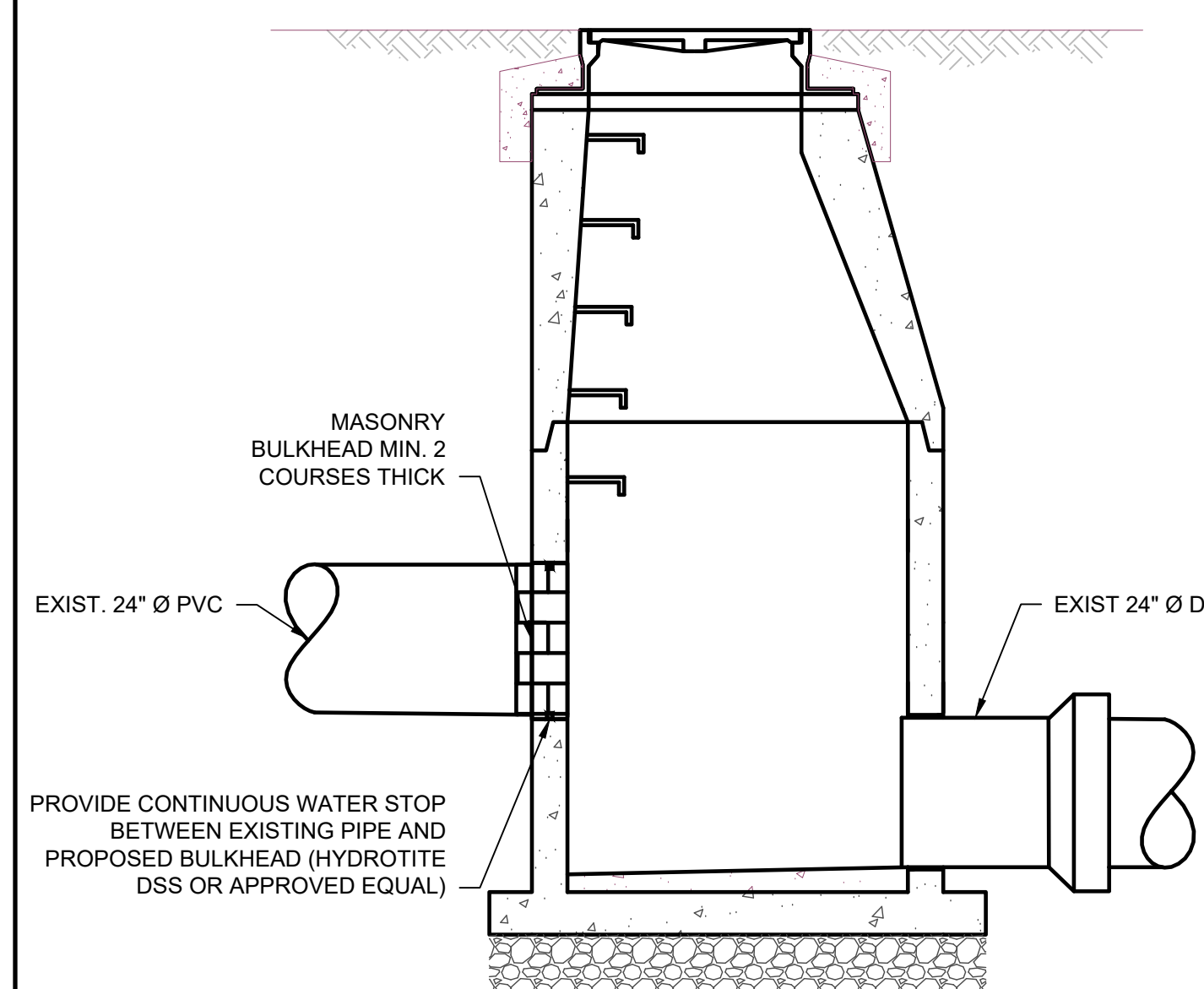


- NOTES:
- COVER SHALL BE EJIW 2111APT AND FRAME SHALL BE EJIW 2111ZPT OR APPROVED EQUAL.
 - FRAME AND COVER SHALL BE SET IN FULL BED OF MORTAR ON A MINIMUM OF 2 COURSES OF BRICK.

WATERTIGHT SEWER MANHOLE FRAME & COVER

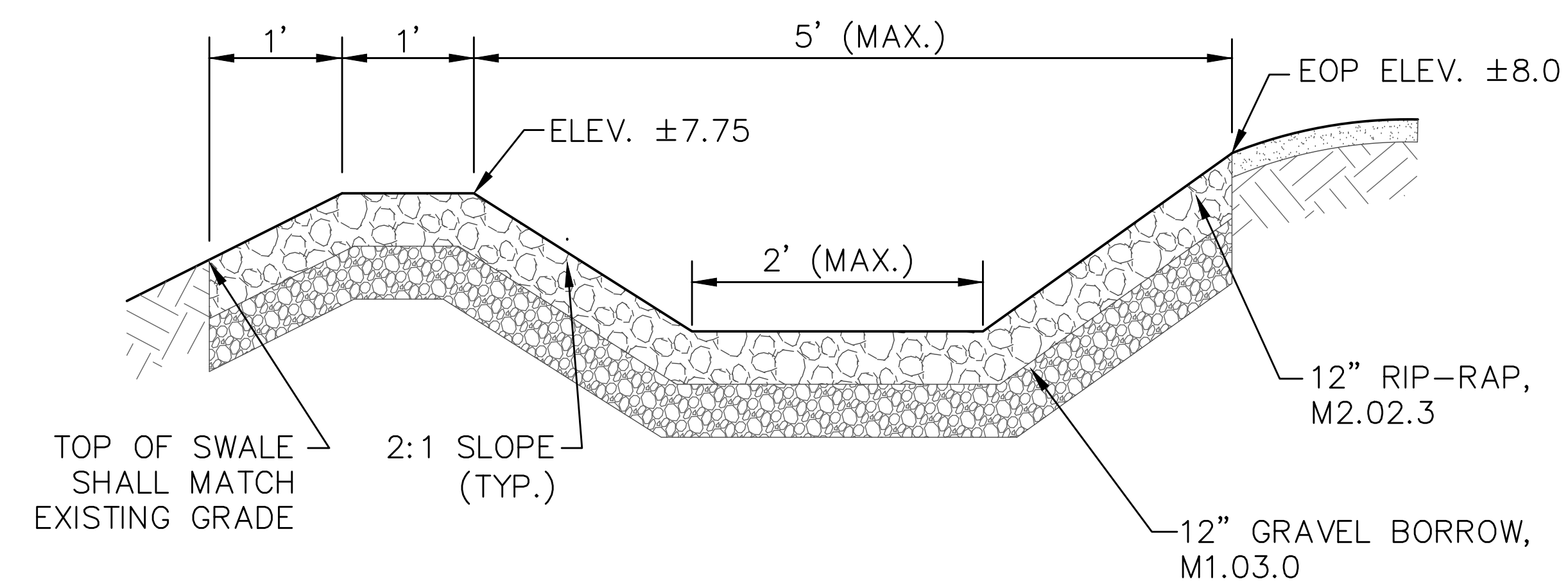
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BRICK BULKHEAD DETAIL

SCALE: NOT TO SCALE



RIP RAP BERM DETAIL

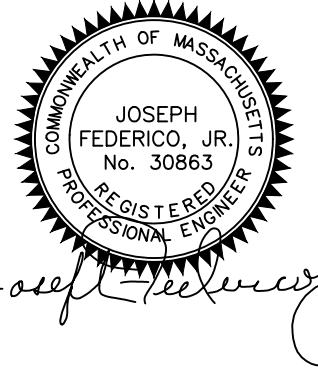
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BETA

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REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**CIVIL
DETAILS I**

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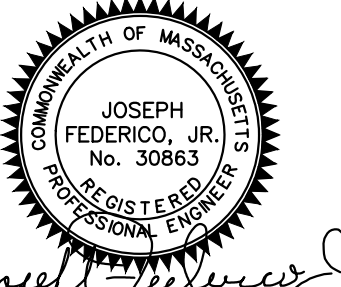
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REGISTERED PROFESSIONAL



Joseph Federico Jr.

SUBCONSULTANT

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

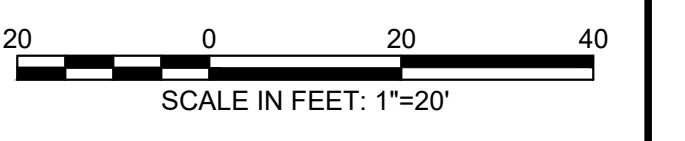
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EASEMENT PLAN 106-4

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SHEET NO.

EP-1

AREA OF TEMPORARY EASEMENT : 8,392 SQ. FEET

LIMIT OF TEMPORARY EASEMENT

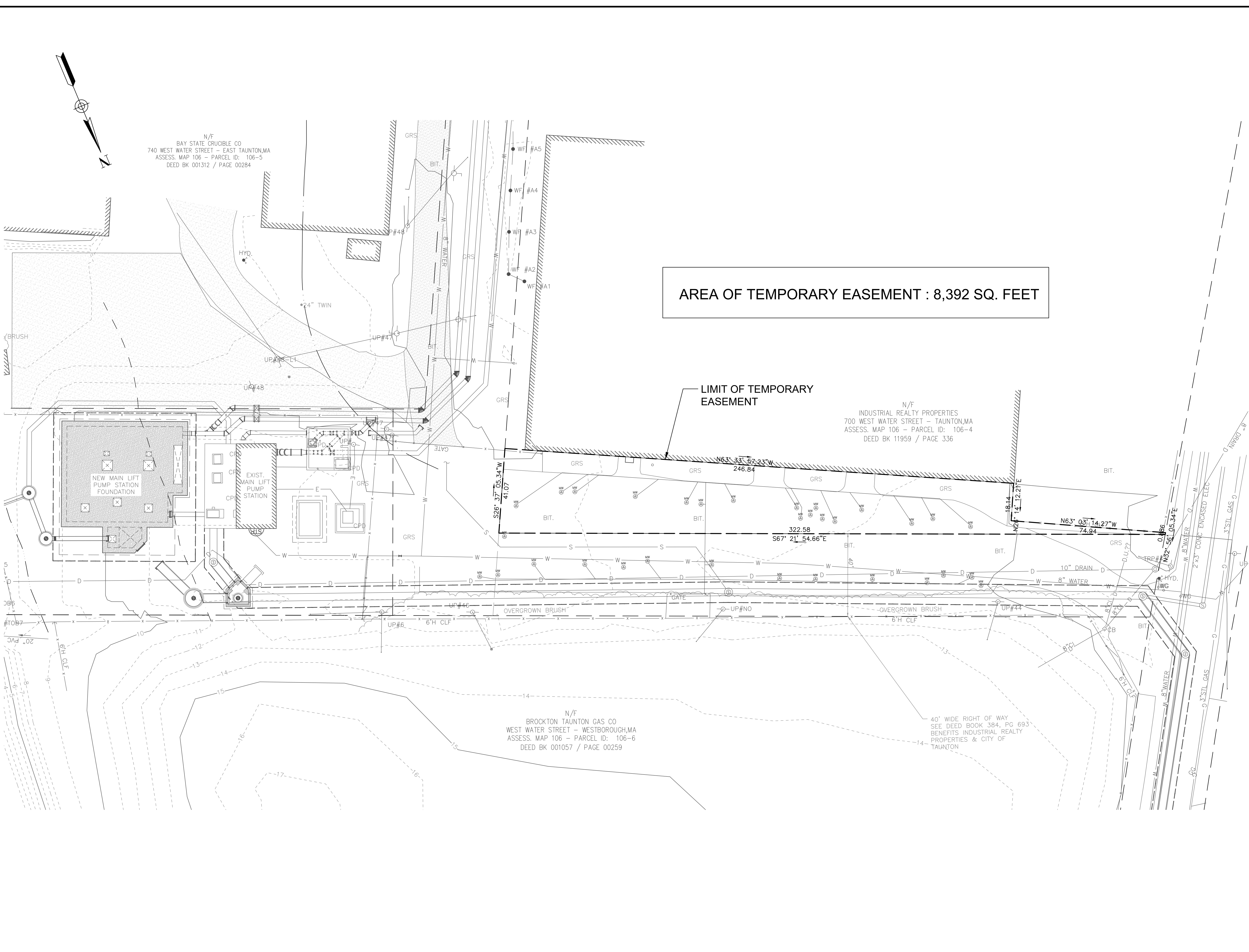
N/F
BAY STATE CRUCIBLE CO
740 WEST WATER STREET - EAST TAUNTON, MA
ASSESS. MAP 106 - PARCEL ID: 106-5
DEED BK 001312 / PAGE 00284

N/F
INDUSTRIAL REALTY PROPERTIES
700 WEST WATER STREET - TAUNTON, MA
ASSESS. MAP 106 - PARCEL ID: 106-4
DEED BK 11959 / PAGE 336

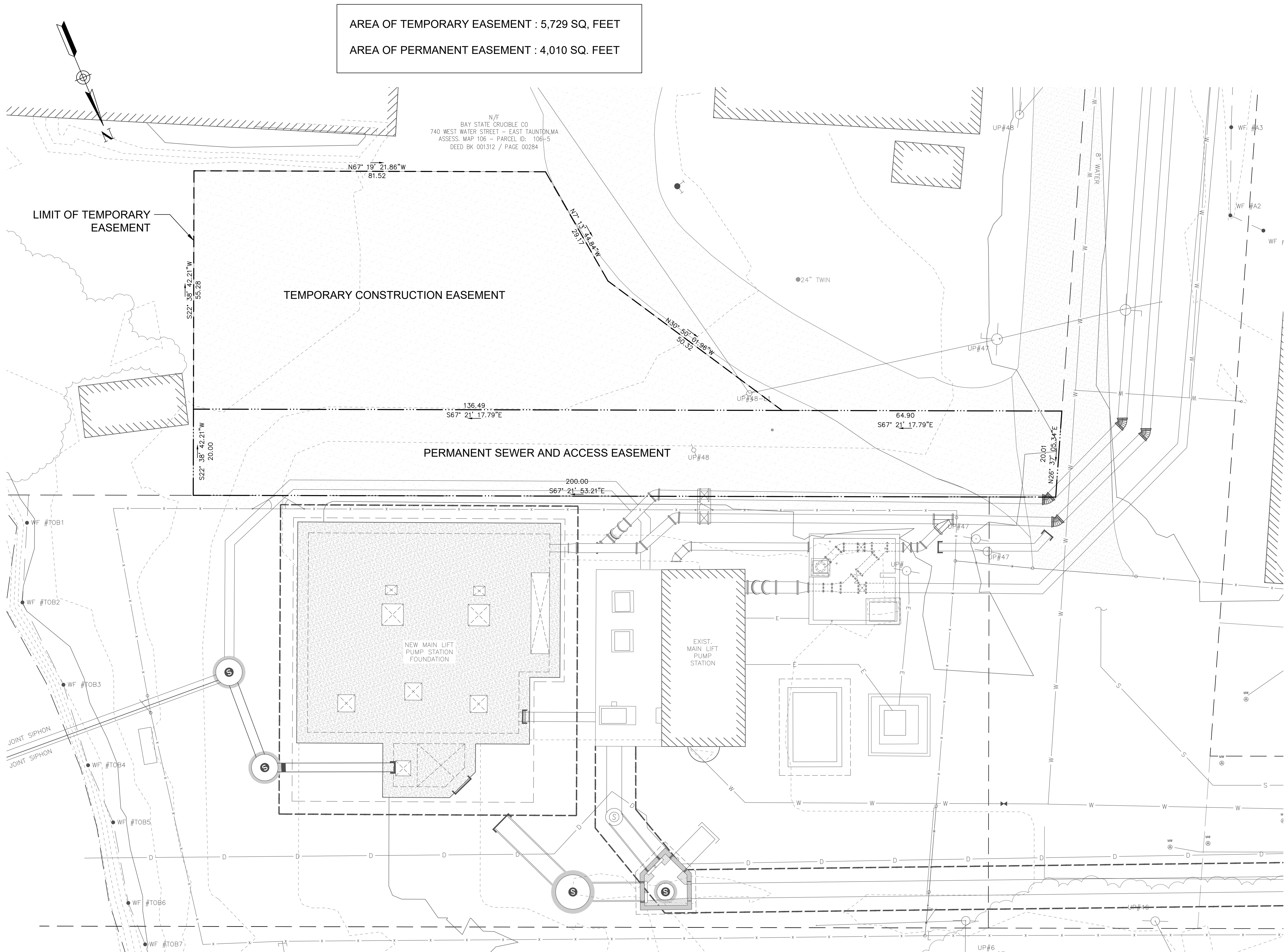
N/F
BROCKTON TAUNTON GAS CO
WEST WATER STREET - WESTBOROUGH, MA
ASSESS. MAP 106 - PARCEL ID: 106-6
DEED BK 001057 / PAGE 00259

40' WIDE RIGHT OF WAY
SEE DEED BOOK 384, PG 693
BENEFITS INDUSTRIAL REALTY
PROPERTIES & CITY OF
TAUNTON

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Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

EASEMENT PLAN 106-5

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 BETA JOB NO.: 5530

SCALE

SCALE IN FEET: 1"=10'

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SHEET NO.

EP-2

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

PREPARED BY:



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PLOT DATE: 8/29/2021 3:59:16 PM

REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

GENERAL NOTES

REVISIONS

| NO. | DESCRIPTION | DATE |
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CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CONTRACT 2

SHEET NO.

A-01

ABBREVIATIONS

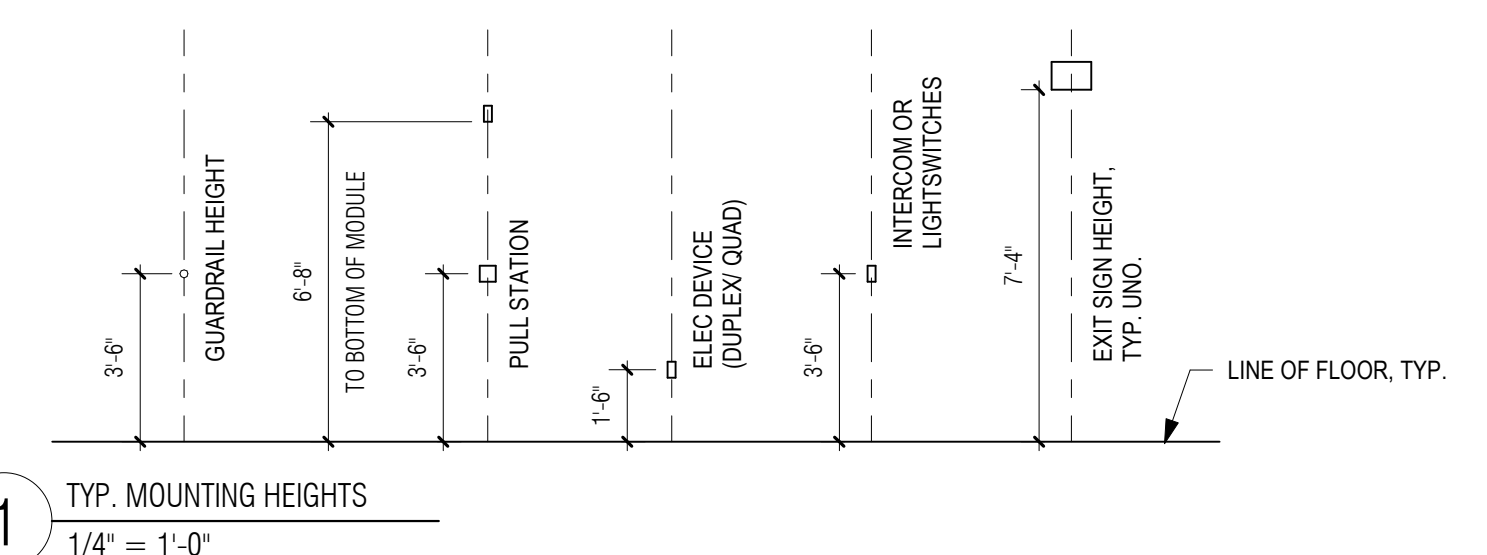
Table of abbreviations including AFF ABOVE FINISHED FLOOR, AH ACCESS HATCH, AP ACCESS PANEL, etc.

MATERIAL LEGEND

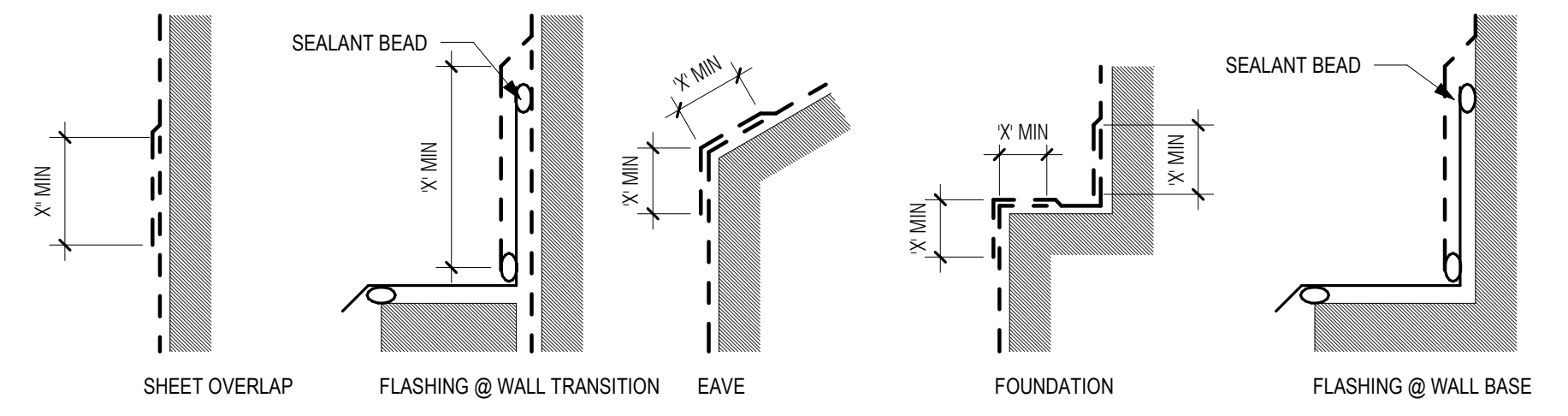
Material legend table listing materials like UNDISTURBED COMPACTED SOIL, ASPHALT PAVEMENT, CONCRETE, BRICK, STEEL, etc.

SYMBOL LEGEND

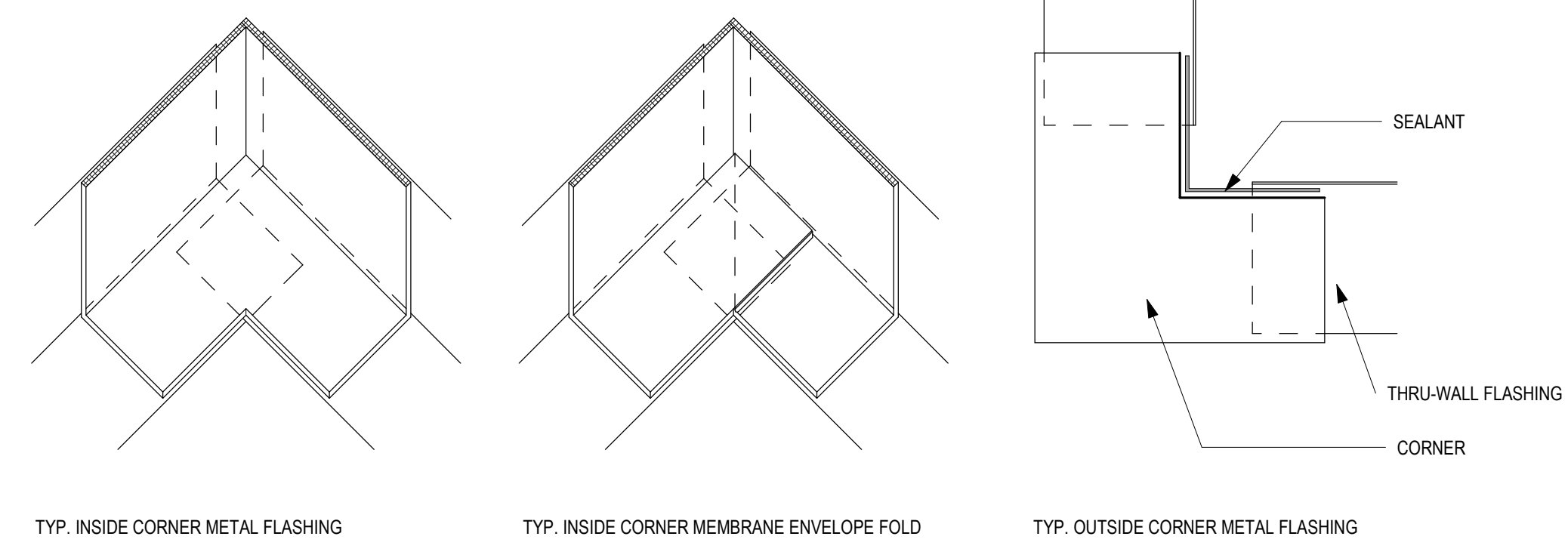
Symbol legend table listing symbols for DRAWING NO., SHEET NO., DETAIL NO., etc.



1 TYP. MOUNTING HEIGHTS 1/4" = 1'-0"



2 WATERPROOFING DETAILS 3" = 1'-0" 'X' = PER MANUFACTURER'S RECOMMENDATIONS, TYP.



3 WATERPROOFING DETAILS 3D 3" = 1'-0"

Table of electrical symbols for FIRE ALARM AUDIO, STROBE, MANUAL ALARM PULL STATION, etc.

Table of electrical symbols for OCCUPANCY SENSOR, HEAT SENSOR, SMOKE DETECTOR, etc.

PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01734 978.371.7500

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS

REVISIONS

Table with columns for NO., DESCRIPTION, and DATE for tracking revisions.

DRAWN BY: TM

DESIGNED BY: DSK

CHECKED BY: MPS

DSK JOB No.: TPS-1795 DATE: 3/31/2022

BETA JOB No.: 5530

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As indicated

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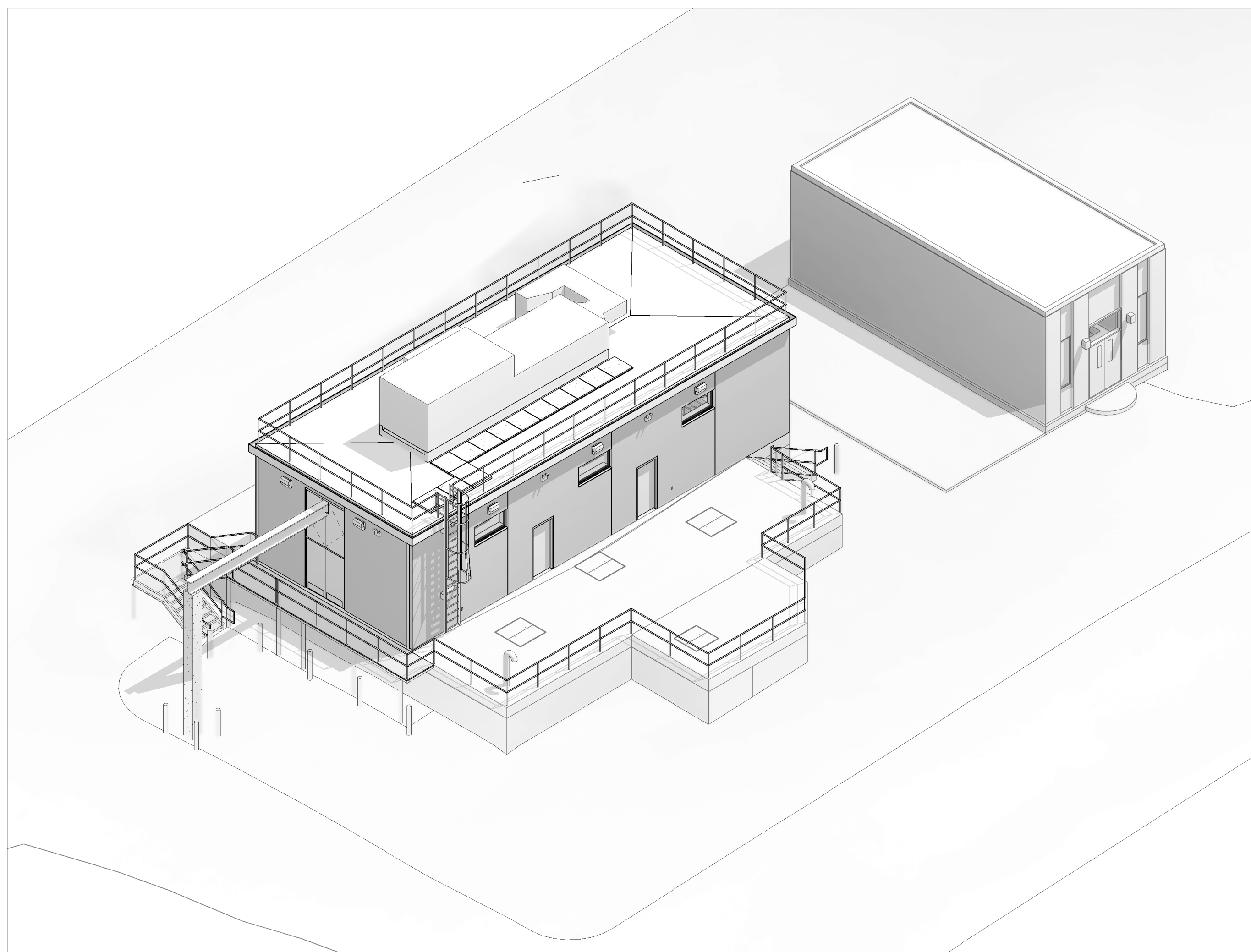
CONTRACT 2

SHEET NO.

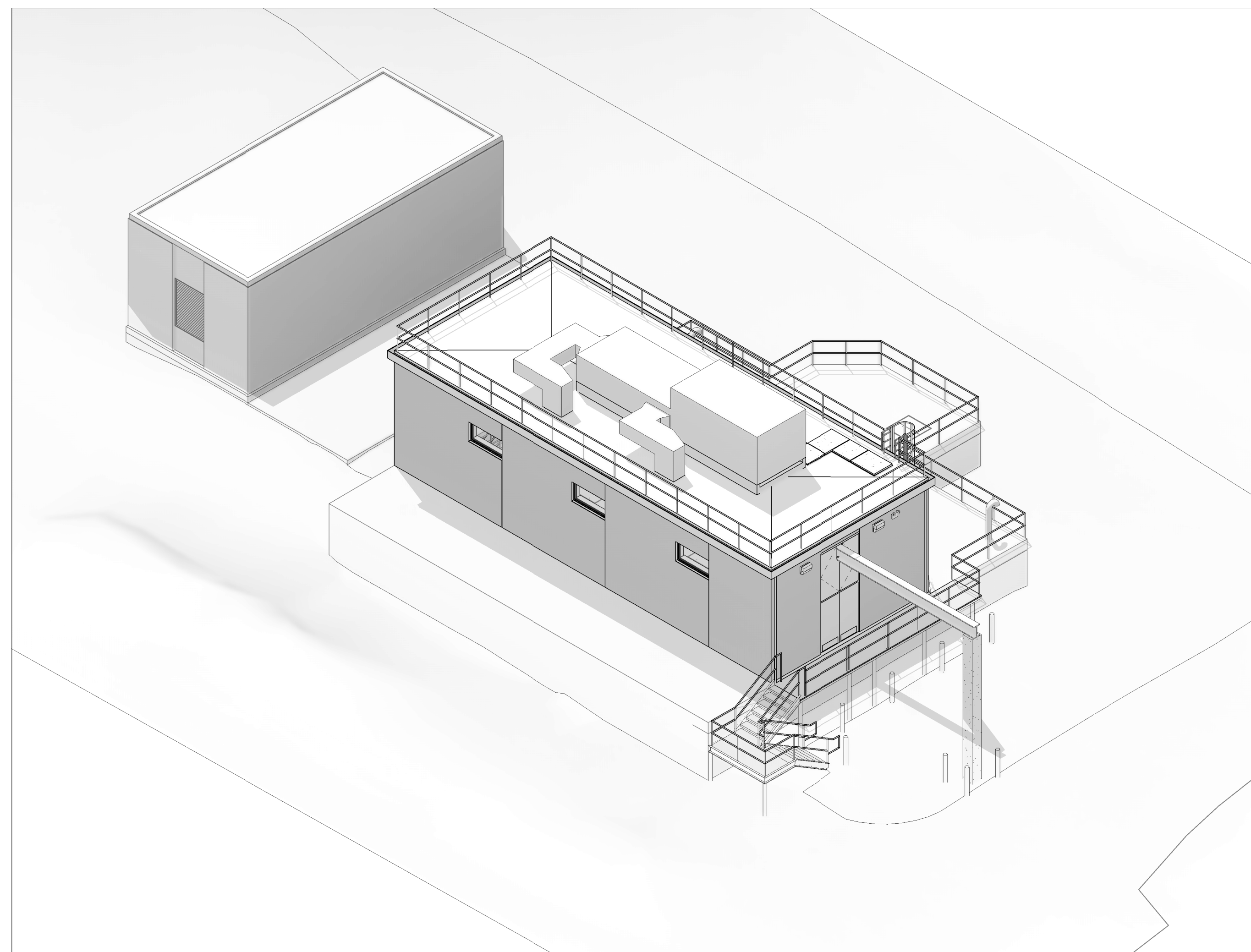
A-02

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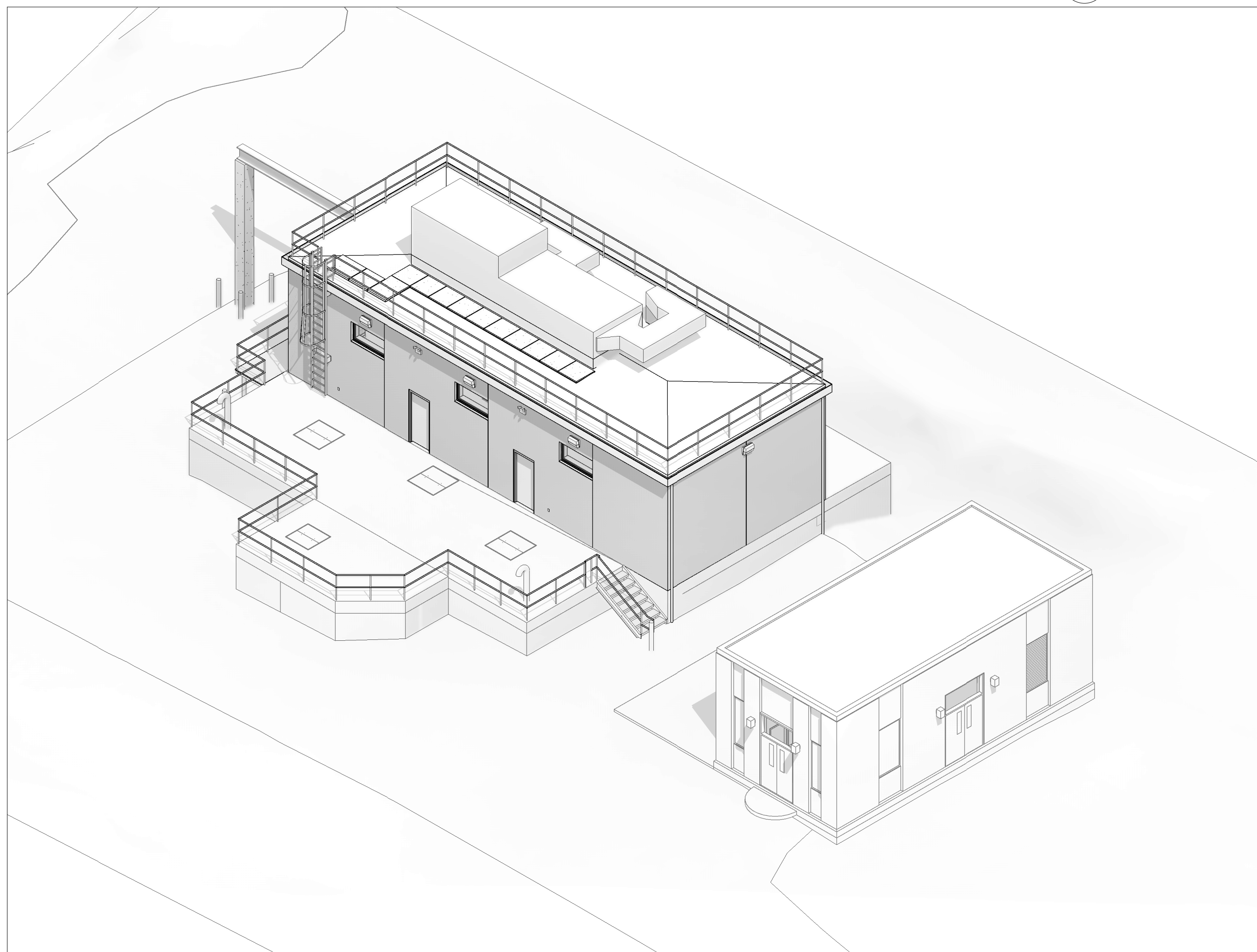
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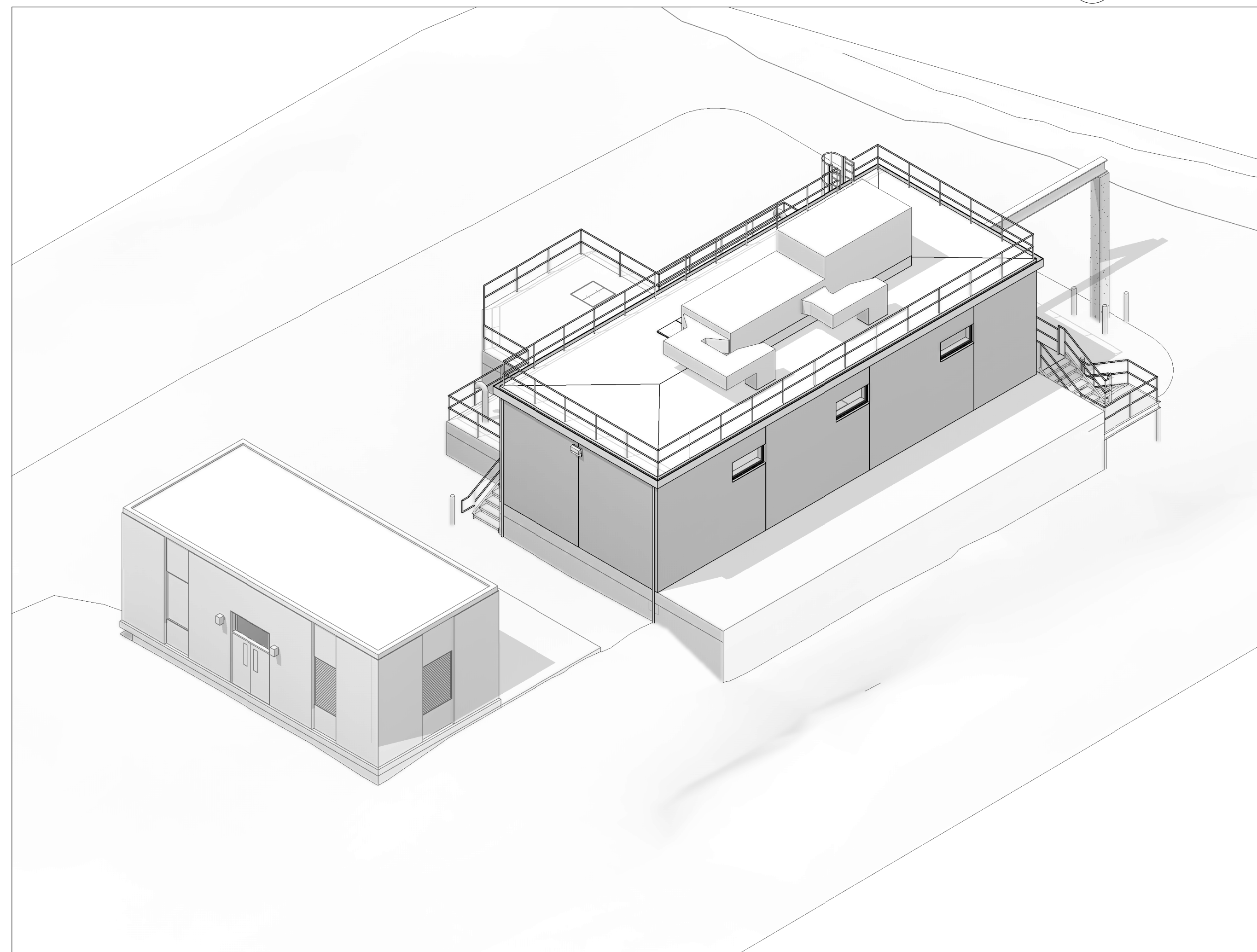
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NOT TO SCALE. FOR REFERENCE ONLY



2 3D-NW-CORNER
NOT TO SCALE. FOR REFERENCE ONLY



3 3D-SE-CORNER



1 3D-NE-CORNER
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SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

3D VIEWS

REVISIONS

| NO. | DESCRIPTION | DATE |
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DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

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CONTRACT 2

SHEET NO.


A-03

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| RENOVATION NOTES | |
|------------------|--|
| NOTE | DESCRIPTION |
| 1 | REPLACE ALL EXISTING WINDOWS AND DOOR FRAMES AND UNITS W/ INSULATED, LAMINATED GLAZED UNITS OF SAME DIMENSIONS AND COLOR. SEE SPECS, TYP. |
| 2 | REPLACE ALL LOUVERS W/ NEW UNITS OF SAME DIMENSIONS AND FREE AREA. SEE SPECS, TYP. |
| 3 | POWER WASH BRICK AND SIDING. REPOINT AND REPLACE ANY DAMAGED OR MISSING MORTAR. COLOR TO MATCH EXISTING, TYP. |
| 4 | PROVIDE NEW LIGHTING AT DOORS TO MATCH EXISTING LOCATIONS (SEE ELECTRICAL LIGHTING SCHEDULE, TYP). |
| 5 | REMOVE AND REPLACE ROOF W/ SIMILAR SLOPE AND MATERIALS. ADD INSULATION TO ROOF ASSEMBLY PER CODE, TYP. |
| 6 | 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. |


| EXISTING WINDOW AND LOUVER SCHEDULE | | | | | | | | | | | | | | | |
|---------------------------------------|-------------|-------------|------------------------------------|-------------|-------------------|----------------|-----------|--------------|------------|----------------|----------|-------------|-----------|-----------|-------|
| WINDOW NUMBER | WINDOW TYPE | LOCATION | | WINDOW SIZE | | FRAME MATERIAL | | FINISH | | | MATERIAL | SILL TYPE | HEAD TYPE | JAMB TYPE | NOTES |
| | | ROOM NUMBER | ROOM NAME | WIDTH | HEIGHT | EXT | INT | GLAZING | EXT | INT | | | | | |
| WINDOW | | | | | | | | | | | | | | | |
| EXIST. STATION | | | | | | | | | | | | | | | |
| EX-01 | | EX-102 | EXISTING WC | 2'-0" | 6'-8" | | | | | | | | | | |
| EX-02 | | EX-101 | EXISTING PUMP STATION CONTROL ROOM | 2'-0" | 6'-8" | | | | | | | | | | |
| EX-03 | | EX-101 | EXISTING PUMP STATION CONTROL ROOM | 3'-10" | 6'-8" | | | | | | | | | | |
| LOUVER | | | | | | | | | | | | | | | |
| EXIST. STATION | | | | | | | | | | | | | | | |
| EX-04 | | EX-101 | EXISTING PUMP STATION CONTROL ROOM | 3'-10" | 6'-8" | | | | | | | | | | |
| EX-05 | | EX-101 | EXISTING PUMP STATION CONTROL ROOM | 5'-0" | 6'-8" | | | | | | | | | | |
| EXISTING PUMP STATION - DOOR SCHEDULE | | | | | | | | | | | | | | | |
| DOOR NUMBER | DOOR TYPE | LOCATION | | DOOR | | | FRAME | | | | | | | NOTES | |
| | | ROOM NUMBER | ROOM NAME | PANEL SIZE | PANEL TOTAL PANEL | MAT'L | FINISH | GLAZING TYPE | FRAME TYPE | THRESHOLD TYPE | GASKET | FIRE RATING | HARDWARE | | |
| EX-D-01 | | | | | | | | | | | | | | | |
| EX-D-02 | | | | | | | | | | | | | | | |
| EX-D-03 | FL | | | INT | 2'-8" | 6'-8" | 0'-1 3/4" | 1 | STEEL | N/A | B | | Yes | HD-5 | |

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30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

EXISTING SEWAGE PUMP STATION DRAWINGS

| REVISIONS | | |
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| DRAWN BY: | TM |
| DESIGNED BY: | DSK |
| CHECKED BY: | MPS |
| DSK JOB No.: | TPS-1795 DATE: 3/31/2022 |
| BETA JOB No.: | 5530 |

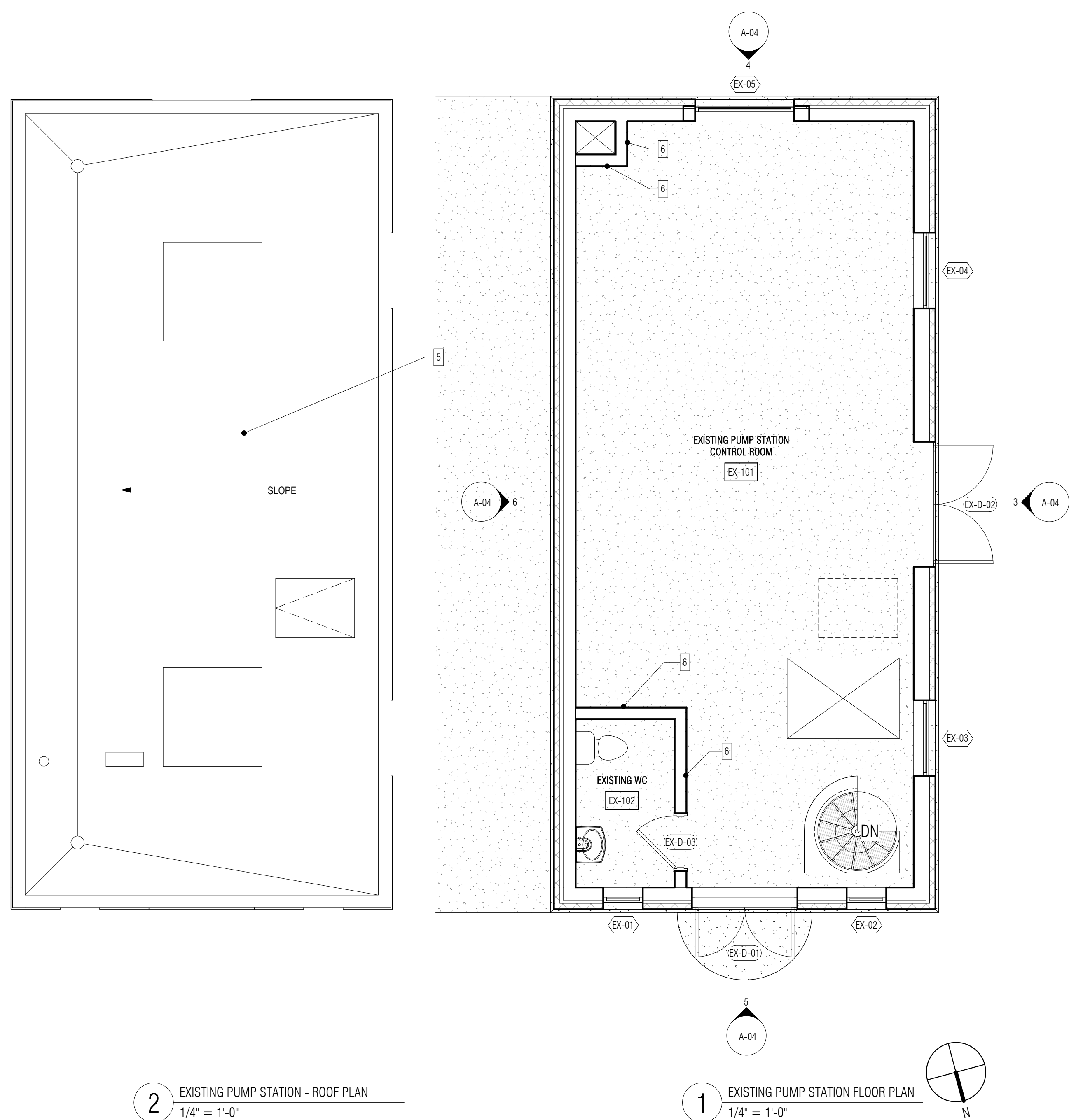
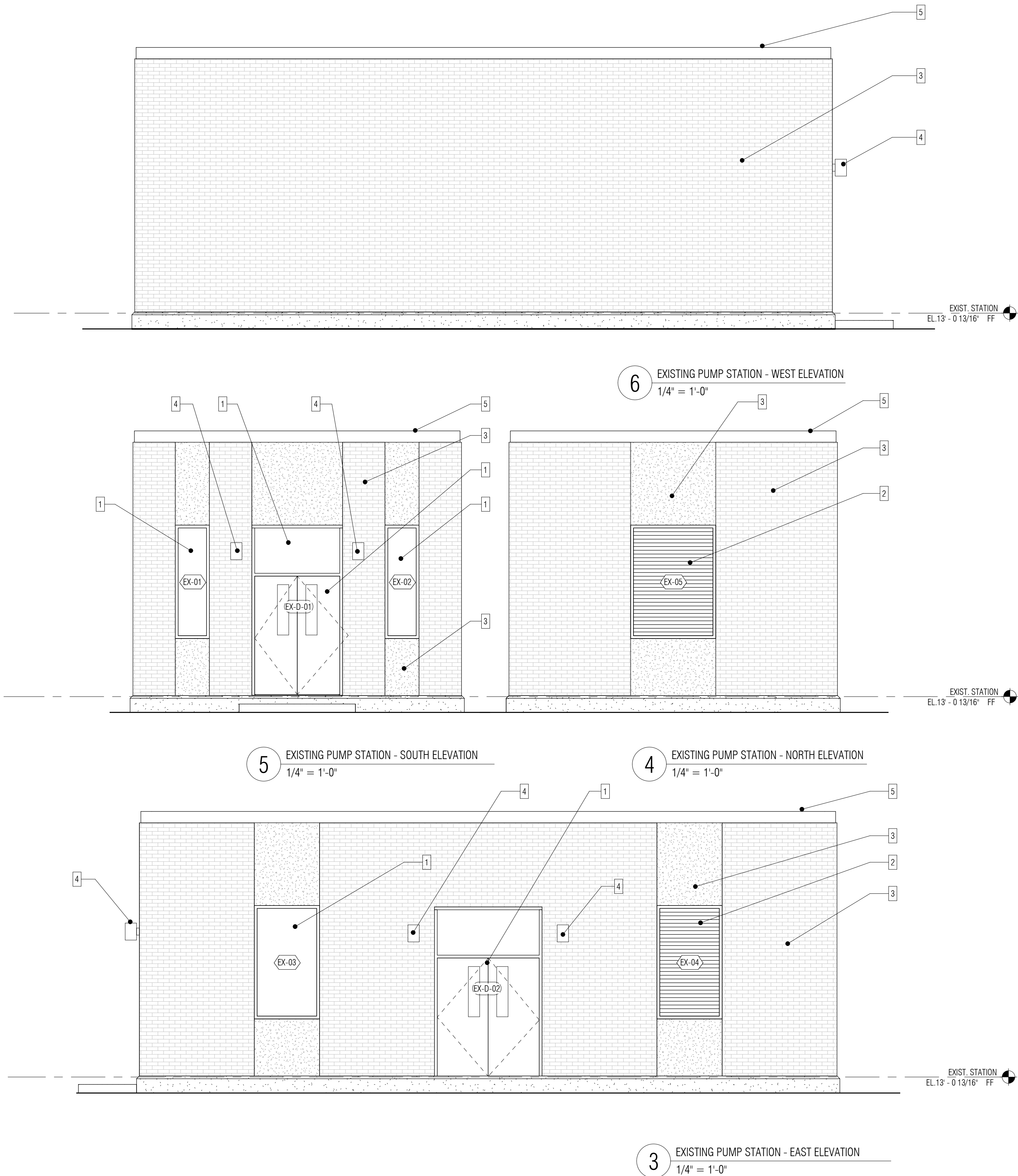
SCALE

1/4" = 1'-0"

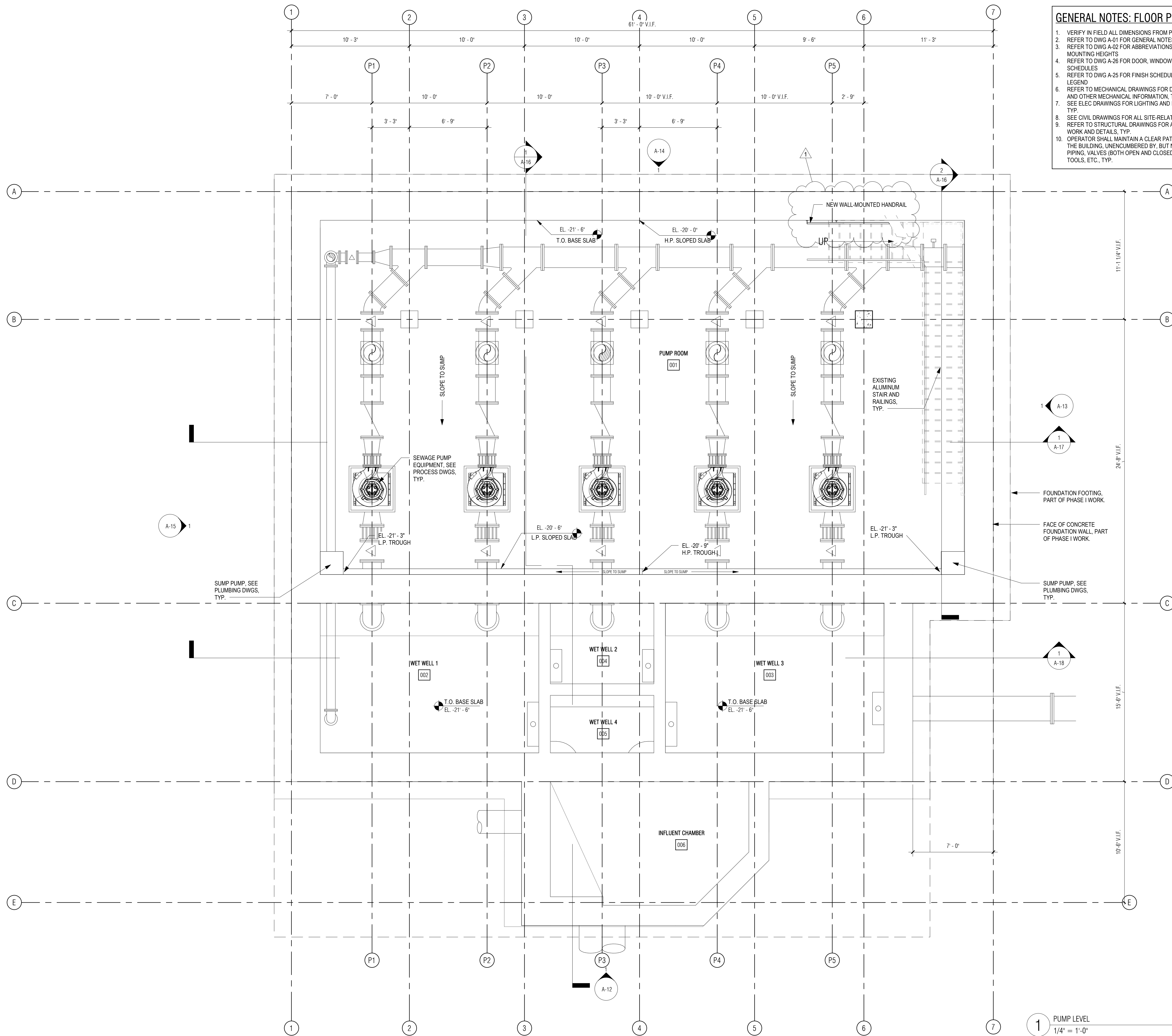
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CONTRACT 2


SHEET NO. **A-04**





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- GENERAL NOTES: FLOOR PLANS**
1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
 2. REFER TO DWG A-01 FOR GENERAL NOTES.
 3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS.
 4. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES.
 5. REFER TO DWG A-25 FOR FINISH SCHEDULE AND MATERIALS LEGEND.
 6. REFER TO MECHANICAL DRAWINGS FOR DUCTING LAYOUTS AND OTHER MECHANICAL INFORMATION, TYP.
 7. SEE ELEC DRAWINGS FOR LIGHTING AND ELEC INFORMATION, TYP.
 8. SEE CIVIL DRAWINGS FOR ALL SITE-RELATED WORK, TYP.
 9. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WORK AND DETAILS, TYP.
 10. OPERATOR SHALL MAINTAIN A CLEAR PATH OF TRAVEL WITHIN THE BUILDING, UNENCUMBERED BY, BUT NOT LIMITED TO PIPING, VALVES (BOTH OPEN AND CLOSED), EQUIPMENT, TOOLS, ETC., TYP.

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PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

TITLE
PUMP ROOM LEVEL PLAN

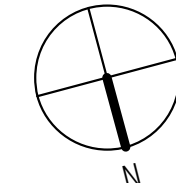
REVISIONS

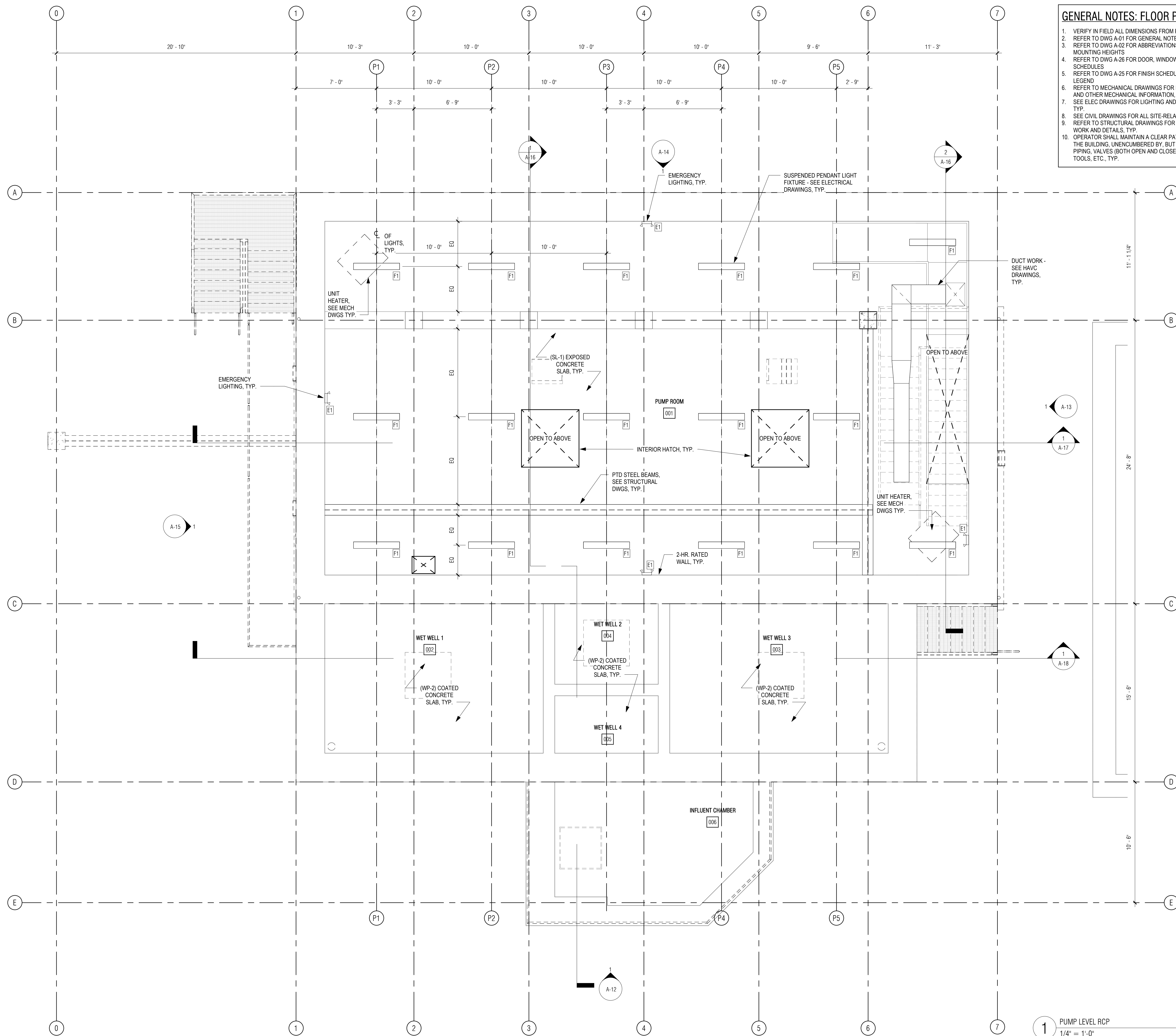
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| 1 | 08/30/2021 Railing | |
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 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 3/31/2022
 BETA JOB No.: 5530

SCALE
As indicated
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CONTRACT 2
 SHEET NO. **A-05**

1 PUMP LEVEL
 1/4" = 1'-0"





GENERAL NOTES: FLOOR PLANS

1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
2. REFER TO DWG A-01 FOR GENERAL NOTES.
3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS.
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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**PUMP ROOM LEVEL
RCP**

REVISIONS

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DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

As indicated

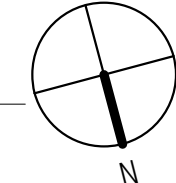
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CONTRACT 2

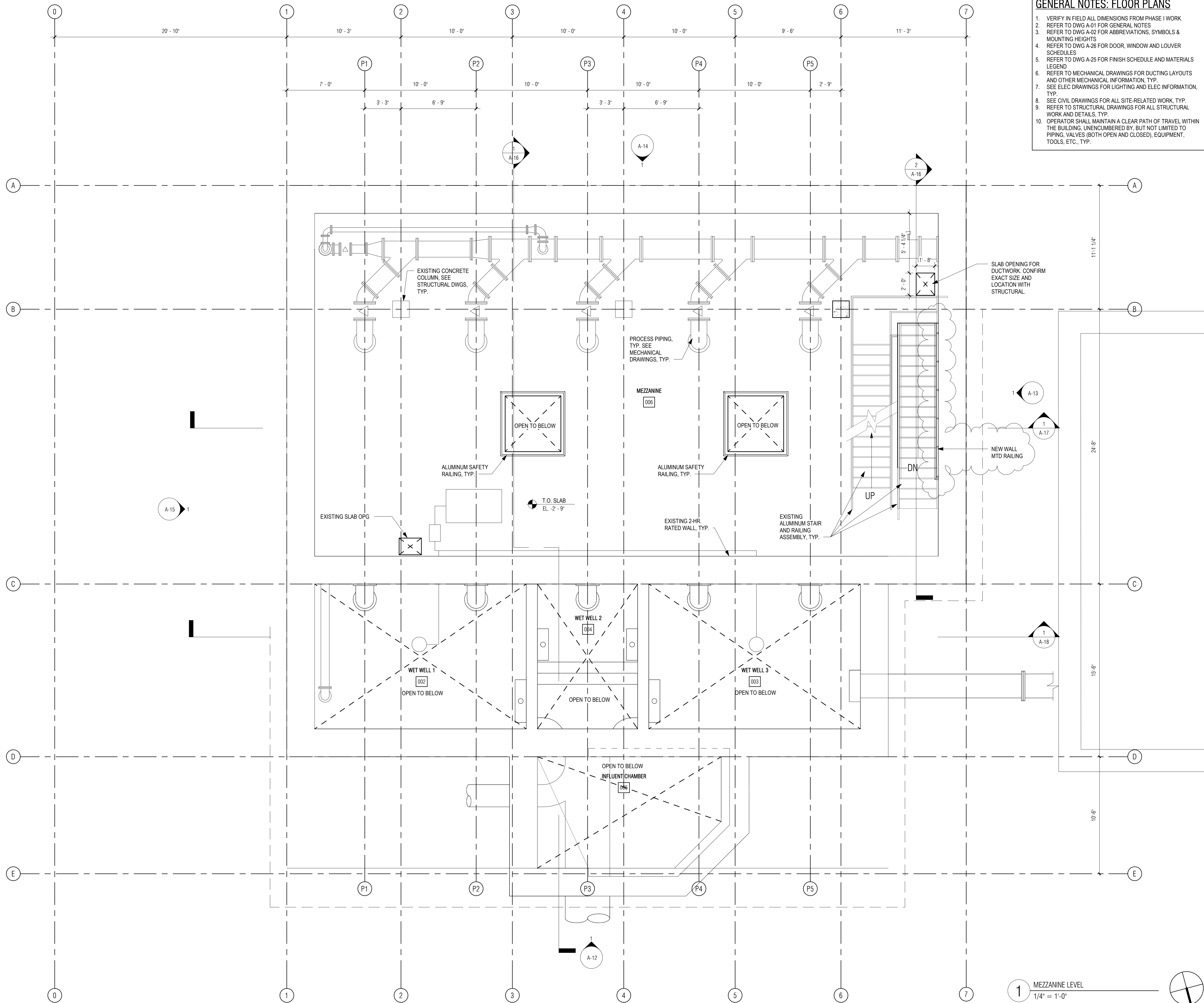
SHEET NO.

A-06

1 PUMP LEVEL RCP
1/4" = 1'-0"



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- GENERAL NOTES: FLOOR PLANS**
1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
 2. REFER TO DWG A-01 FOR GENERAL NOTES
 3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
 4. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
 5. REFER TO DWG A-25 FOR FINISH SCHEDULE AND MATERIALS LEGEND
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 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

TITLE
PUMP ROOM MEZZANINE LEVEL PLAN

REVISIONS

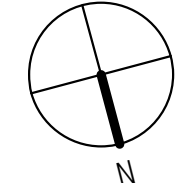
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 DSK JOB No.: TPS-1795 DATE: 3/31/2022
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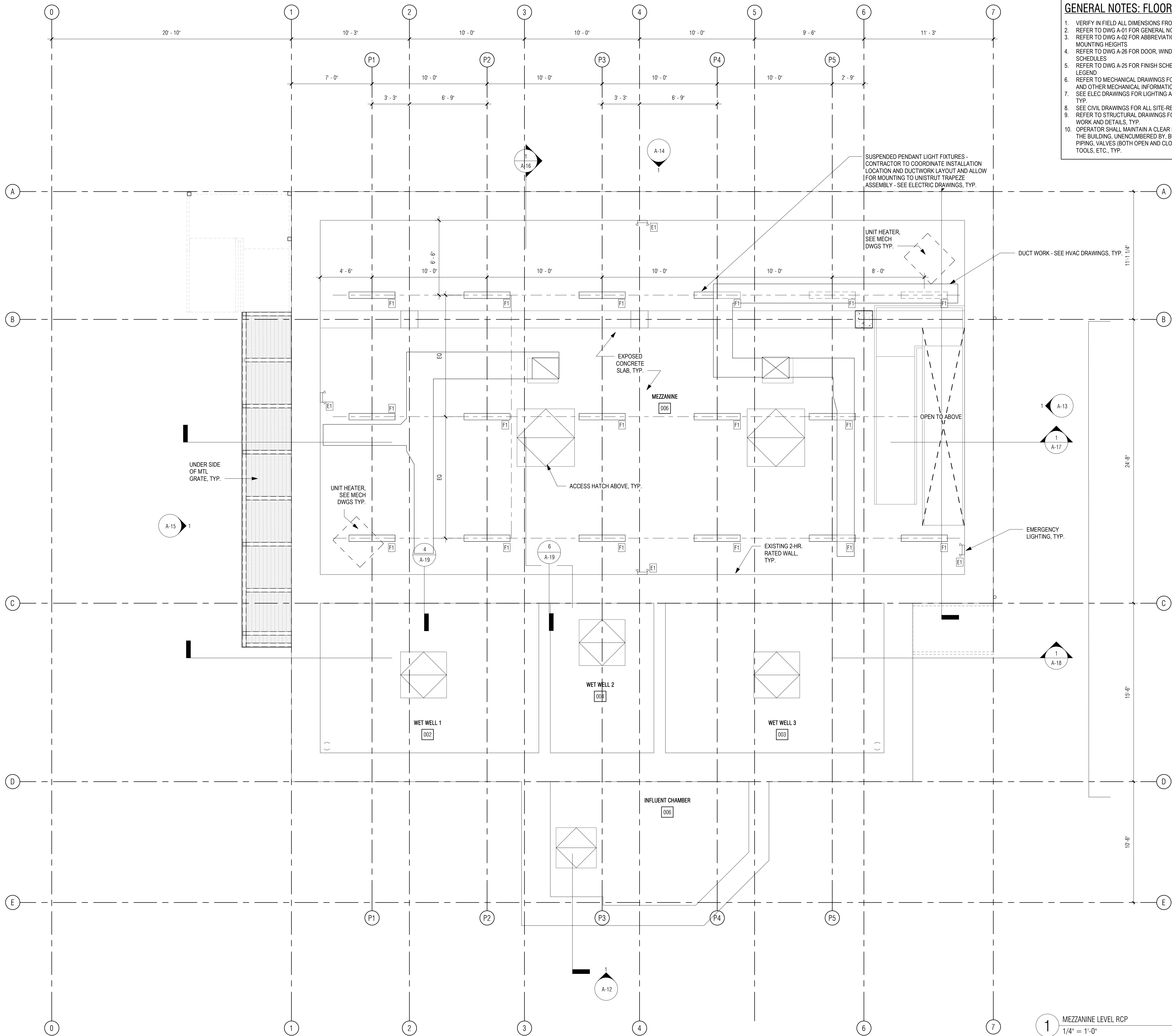
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CONTRACT 2
 SHEET NO. **A-07**

1 MEZZANINE LEVEL
 1/4" = 1'-0"



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- GENERAL NOTES: FLOOR PLANS**
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 2. REFER TO DWG A-01 FOR GENERAL NOTES.
 3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS.
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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

PUMP ROOM MEZZANINE LEVEL REFLECTED CEILING PLAN

REVISIONS

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DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

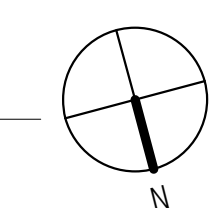
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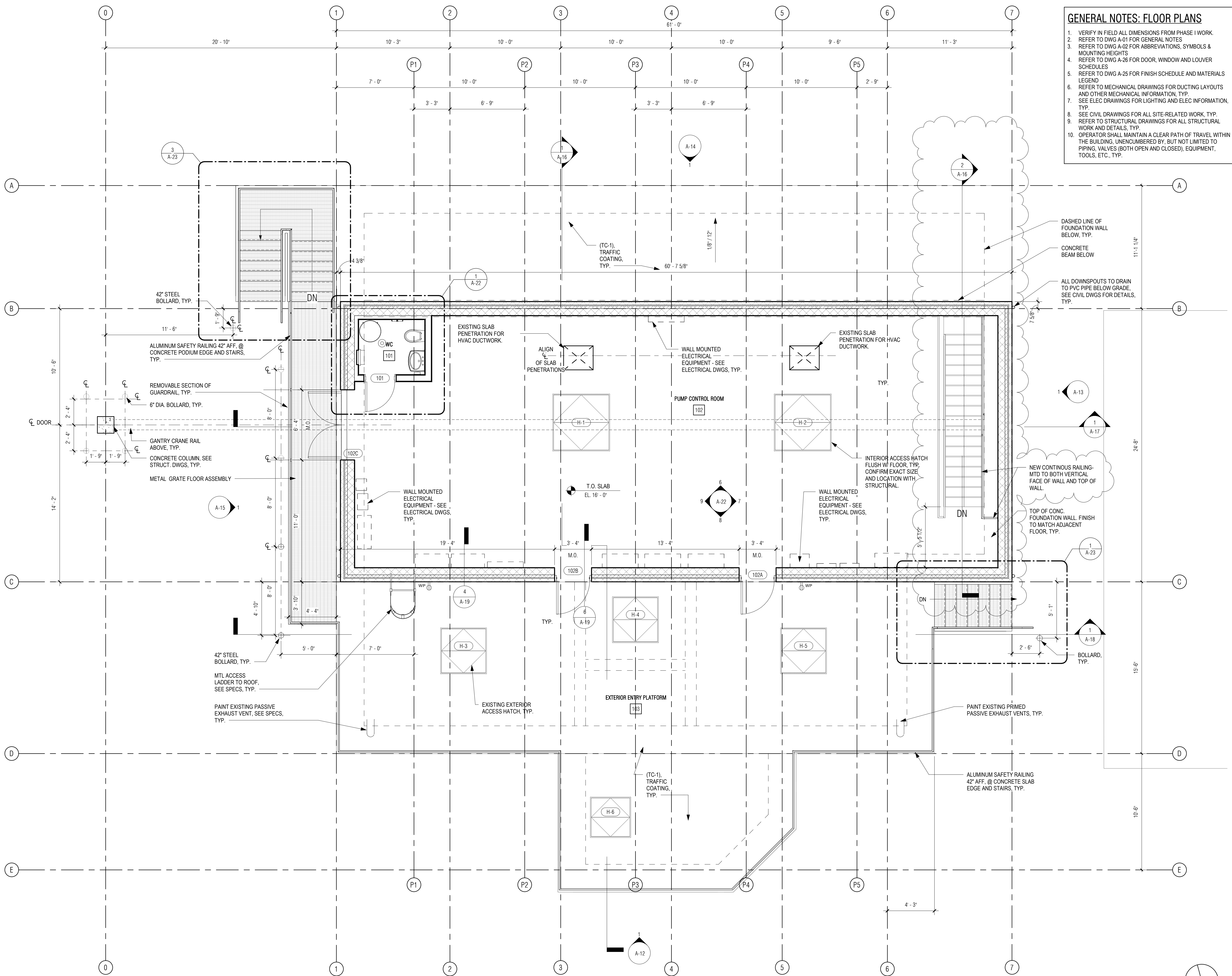
CONTRACT 2

SHEET NO. **A-08**

1 MEZZANINE LEVEL RCP
1/4" = 1'-0"



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- GENERAL NOTES: FLOOR PLANS**
1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
 2. REFER TO DWG A-01 FOR GENERAL NOTES.
 3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS.
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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

GROUND FLOOR PLAN

REVISIONS

| NO. | DESCRIPTION | DATE |
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| 1 | 08/30/2021 Railing | |

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DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

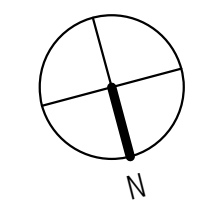
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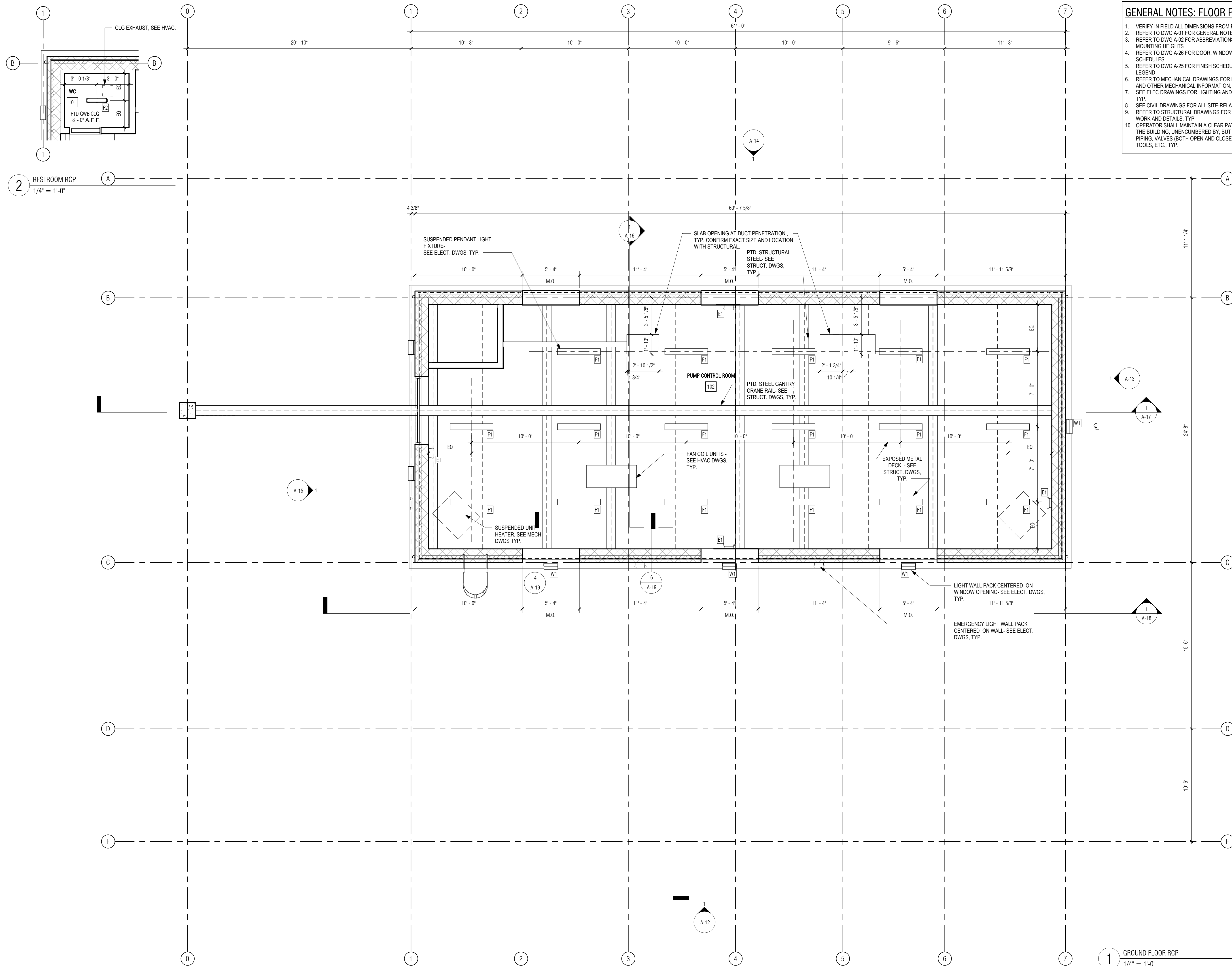
CONTRACT 2

SHEET NO. **A-09**

1 GROUND FLOOR
1/4" = 1'-0"



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GENERAL NOTES: FLOOR PLANS

1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
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280 Elm Street
South Dartmouth, MA 02748
508.999.0440

PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**GROUND FLOOR
AND WC REFLECTED
CEILING PLANS**

REVISIONS

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DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

As indicated

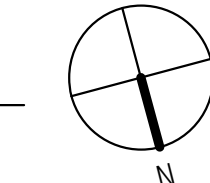
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CONTRACT 2

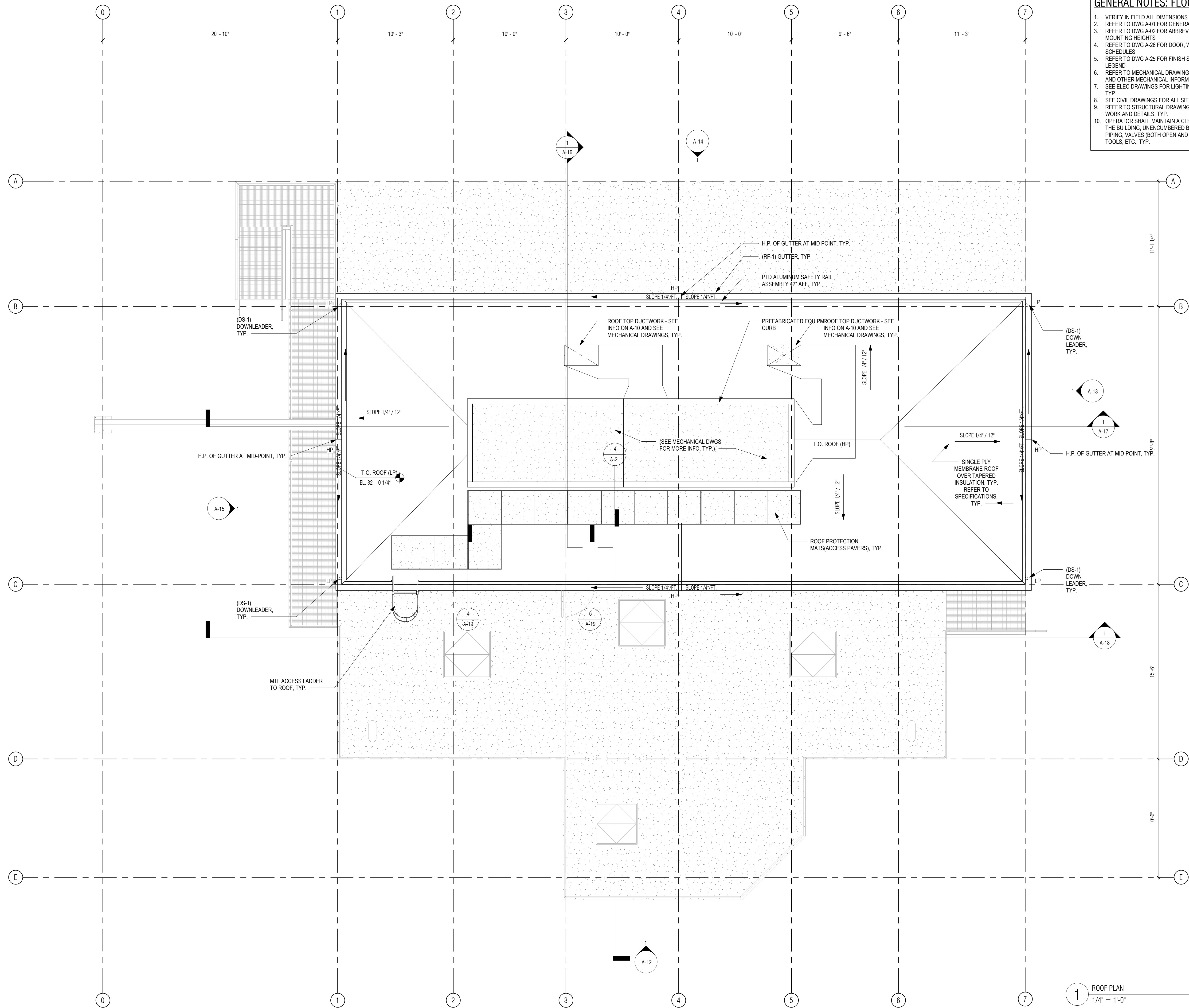
SHEET NO.

A-10

1 GROUND FLOOR RCP
1/4" = 1'-0"



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GENERAL NOTES: FLOOR PLANS

1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
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SUBCONSULTANT:

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

ROOF PLAN

REVISIONS

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DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

As indicated

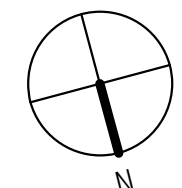
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CONTRACT 2

SHEET NO.


A-11


1 ROOF PLAN
1/4" = 1'-0"




GENERAL NOTES: EXTERIOR ELEVATIONS

- 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:

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 PLOT DATE: 8/29/2021 3:59:51 PM

REGISTERED PROFESSIONAL


SUBCONSULTANT:
 **Dewing Schmid Kearns**
 ARCHITECTS + PLANNERS
 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE
NORTH EXTERIOR ELEVATION

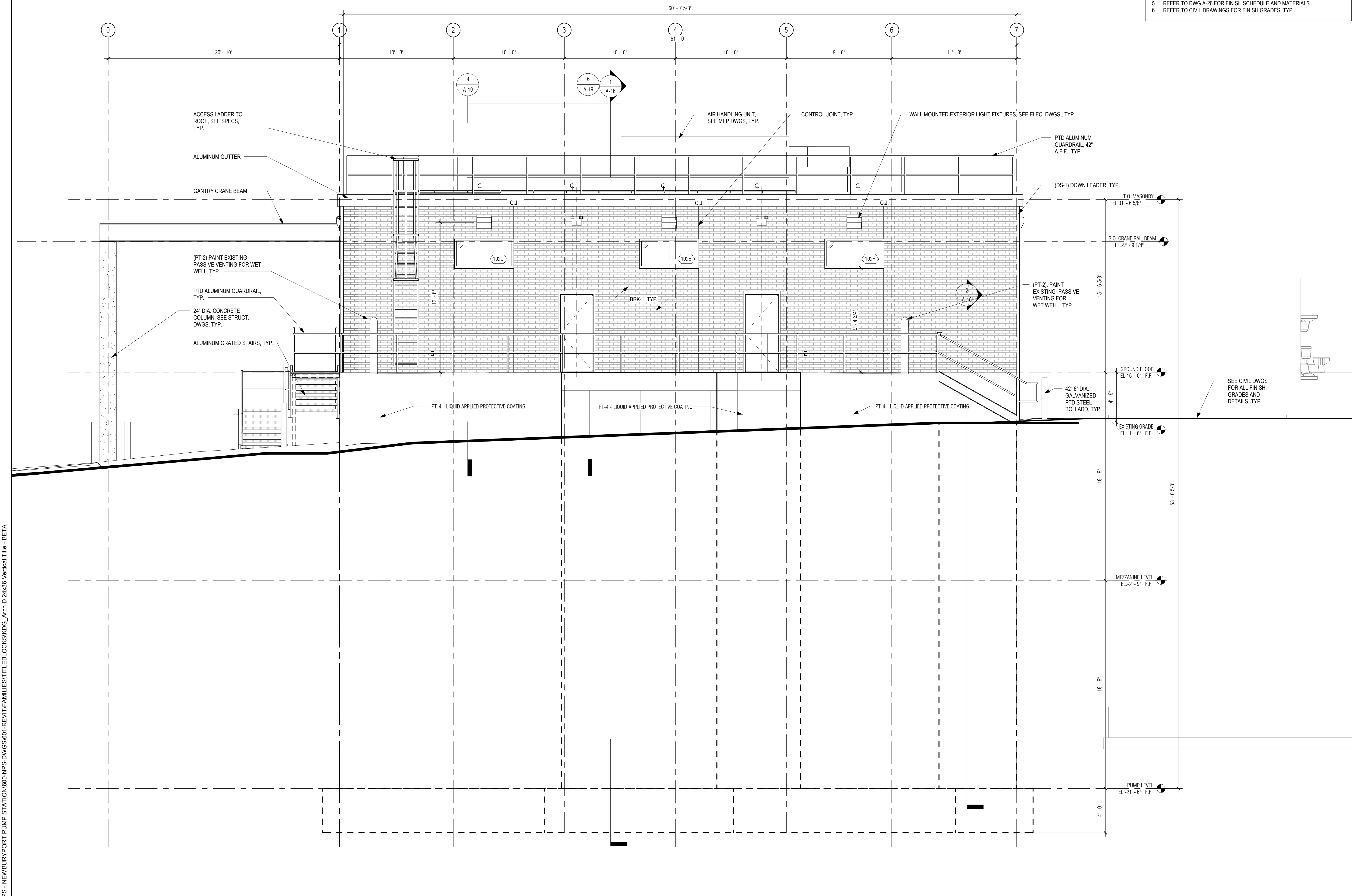
REVISIONS

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DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 3/31/2022
 BETA JOB No.: 5530

SCALE
As indicated

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CONTRACT 2
 SHEET NO.
A-12



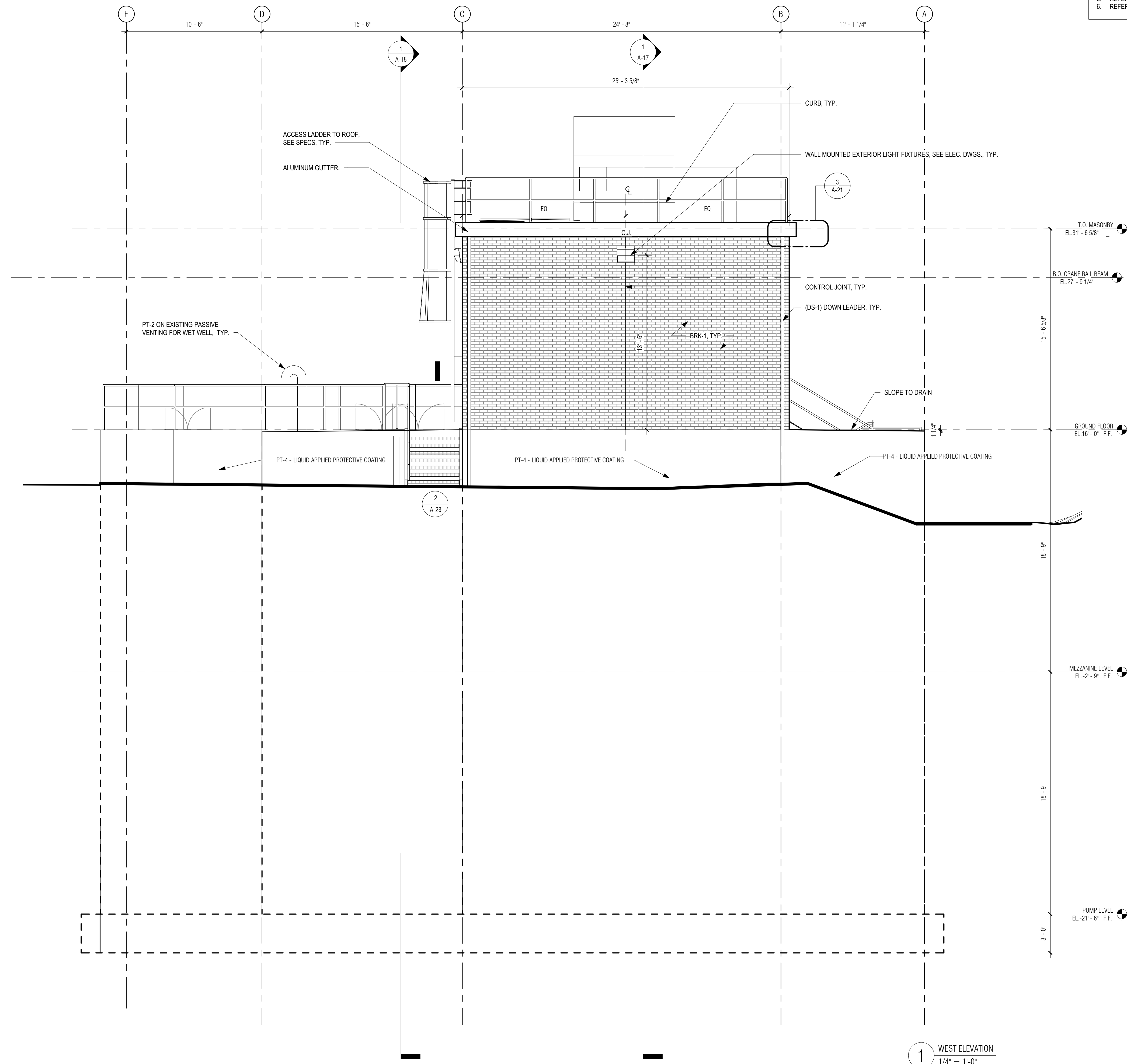
1 NORTH ELEVATION
 1/4" = 1'-0"

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\601-REV\T\FAMILIES\TITLEBLOCKS\KOC_Arch.D 24x36 Vertical Title - BETA

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GENERAL NOTES: EXTERIOR ELEVATIONS

- 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.



1 WEST ELEVATION
1/4" = 1'-0"

PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

WEST EXTERIOR ELEVATION

REVISIONS

| NO. | DESCRIPTION | DATE |
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DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

As indicated

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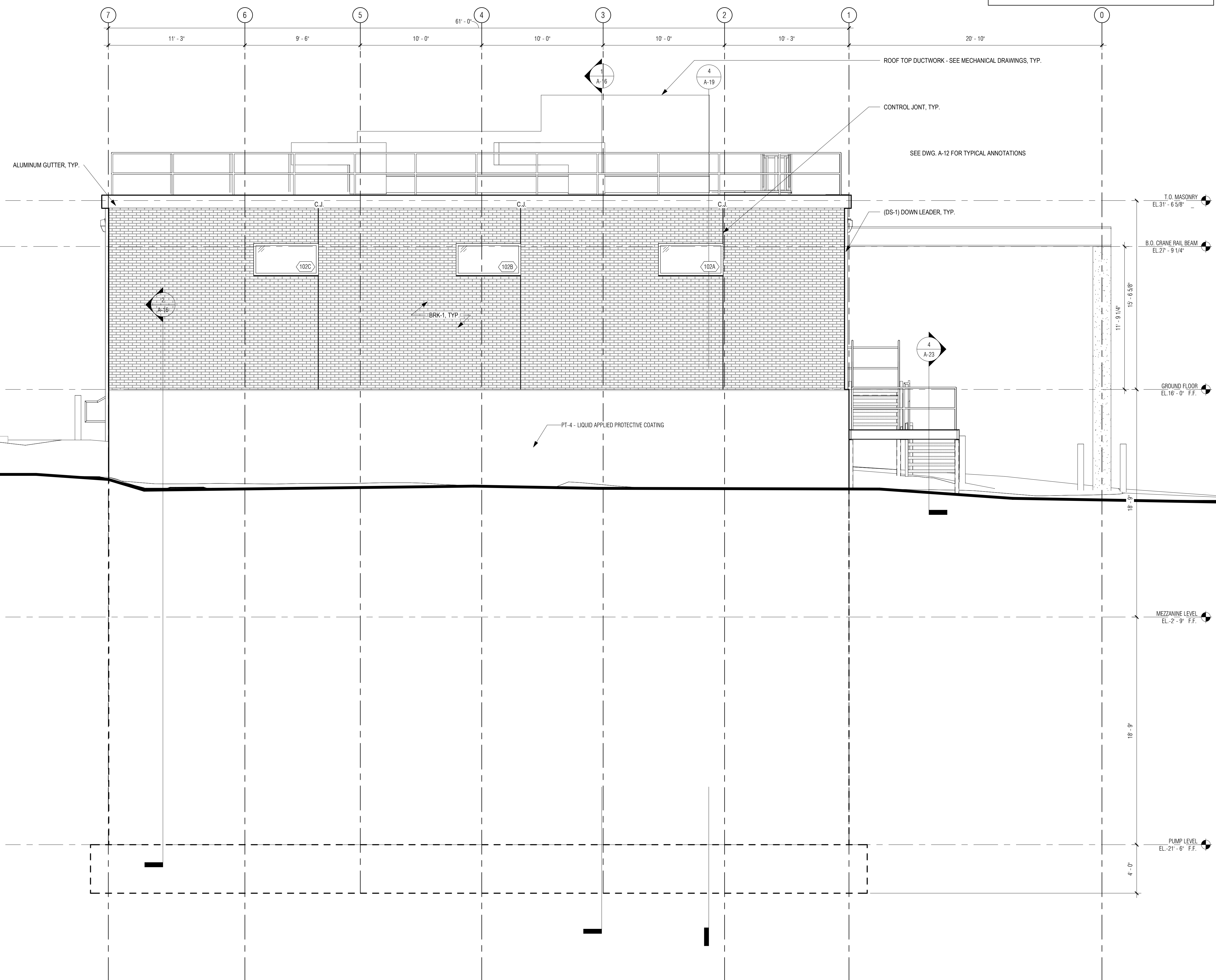
CONTRACT 2

SHEET NO. **A-13**

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GENERAL NOTES: EXTERIOR ELEVATIONS

1. REFER TO DWG A-1 FOR GENERAL NOTES
2. REFER TO DWG A-2 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
3. REFER TO DWG A-12 FOR TYPICAL ANNOTATIONS
4. REFER TO DWG A-25 FOR DOOR, WINDOW AND LOUVER SCHEDULES
5. REFER TO DWG A-26 FOR FINISH SCHEDULE AND MATERIALS
6. REFER TO CIVIL DRAWINGS FOR FINISH GRADES, TYP.

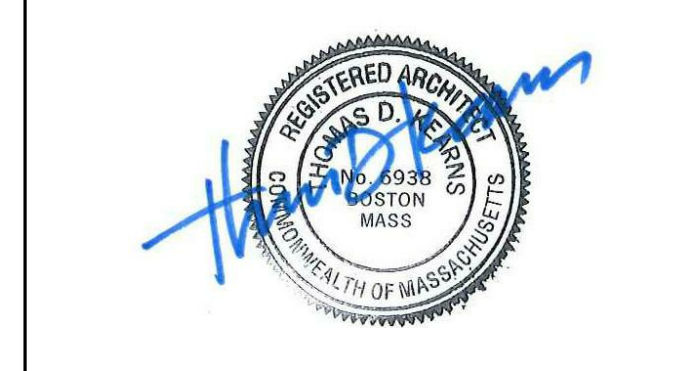


1 SOUTH ELEVATION
1/4" = 1'-0"

PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS
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PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS
TAUNTON, MA

TITLE

SOUTH EXTERIOR ELEVATION

REVISIONS

| NO. | DESCRIPTION | DATE |
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DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

As indicated

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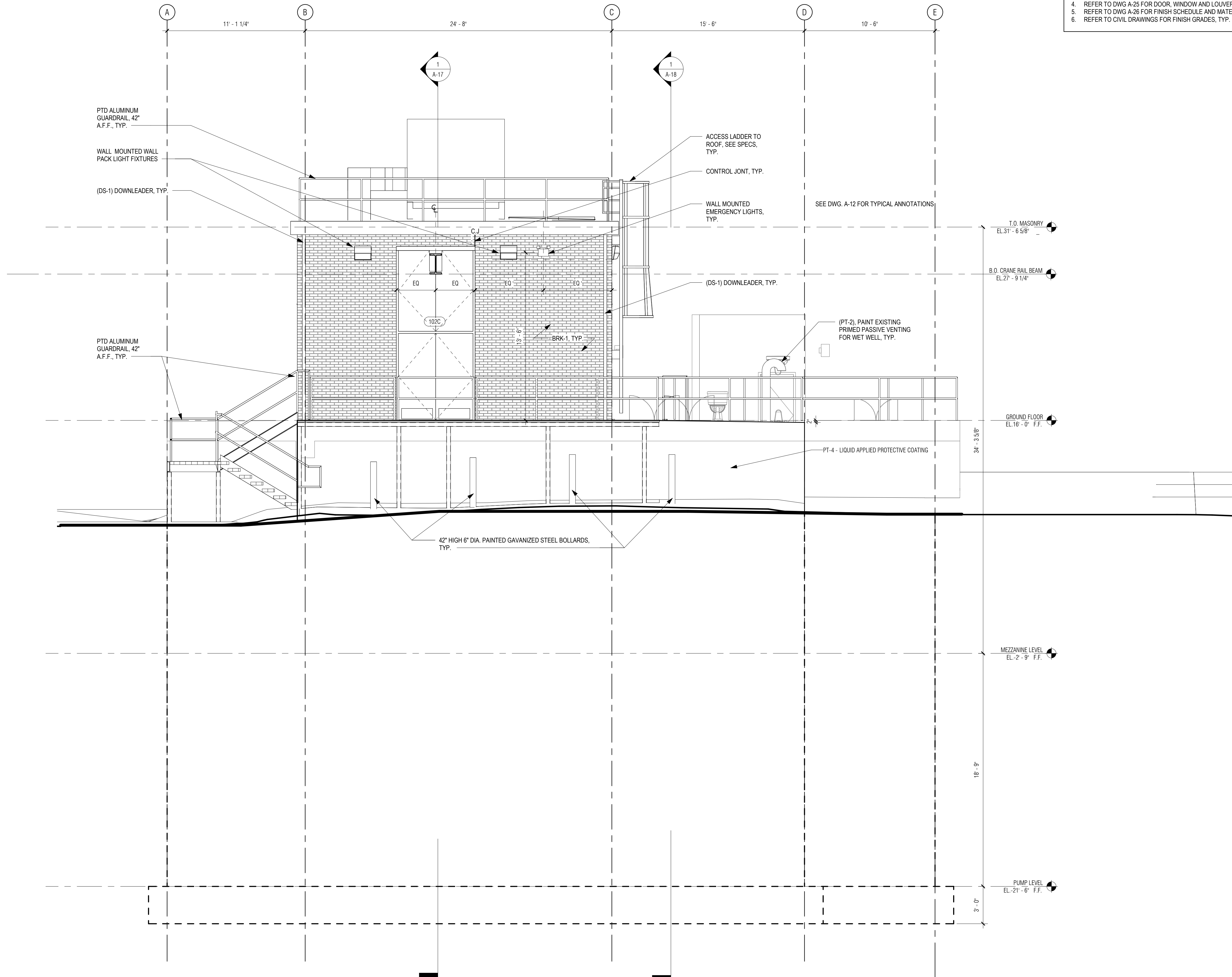
CONTRACT 2

SHEET NO. **A-14**

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\600-NPS-DWG\600-NPS-DWG_Rev\TITLEBLOCKS\KOC_Arch.D 24x36 Vertical Title - BETA

GENERAL NOTES: EXTERIOR ELEVATIONS

1. REFER TO DWG A-1 FOR GENERAL NOTES
2. REFER TO DWG A-2 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
3. REFER TO DWG A-12 FOR TYPICAL ANNOTATIONS
4. REFER TO DWG A-25 FOR DOOR, WINDOW AND LOUVER SCHEDULES
5. REFER TO DWG A-26 FOR FINISH SCHEDULE AND MATERIALS
6. REFER TO CIVIL DRAWINGS FOR FINISH GRADES, TYP.



1 EAST ELEVATION
1/4" = 1'-0"

PREPARED BY:



REGISTERED PROFESSIONAL



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ARCHITECTS + PLANNERS

30 Monument Square Suite 200B
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978.371.7500

280 Elm Street
South Dartmouth, MA 02748
508.999.0440

PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**EAST EXTERIOR
ELEVATION**

REVISIONS

| NO. | DESCRIPTION | DATE |
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DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

As indicated

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CONTRACT 2


SHEET NO.

A-15

GENERAL NOTES: BUILDING SECTIONS

- REFER TO DWG A-01 FOR GENERAL NOTES
- REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
- REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
- REFER TO DWG A-27 FOR FINISH SCHEDULE AND MATERIALS
- PIPING AND DUCT WORK SHOWN FOR DIAGRAMMATIC PURPOSES, REFER TO ENGINEER DWGS FOR DETAILS

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SUBCONSULTANT:
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 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

TITLE
BUILDING SECTIONS

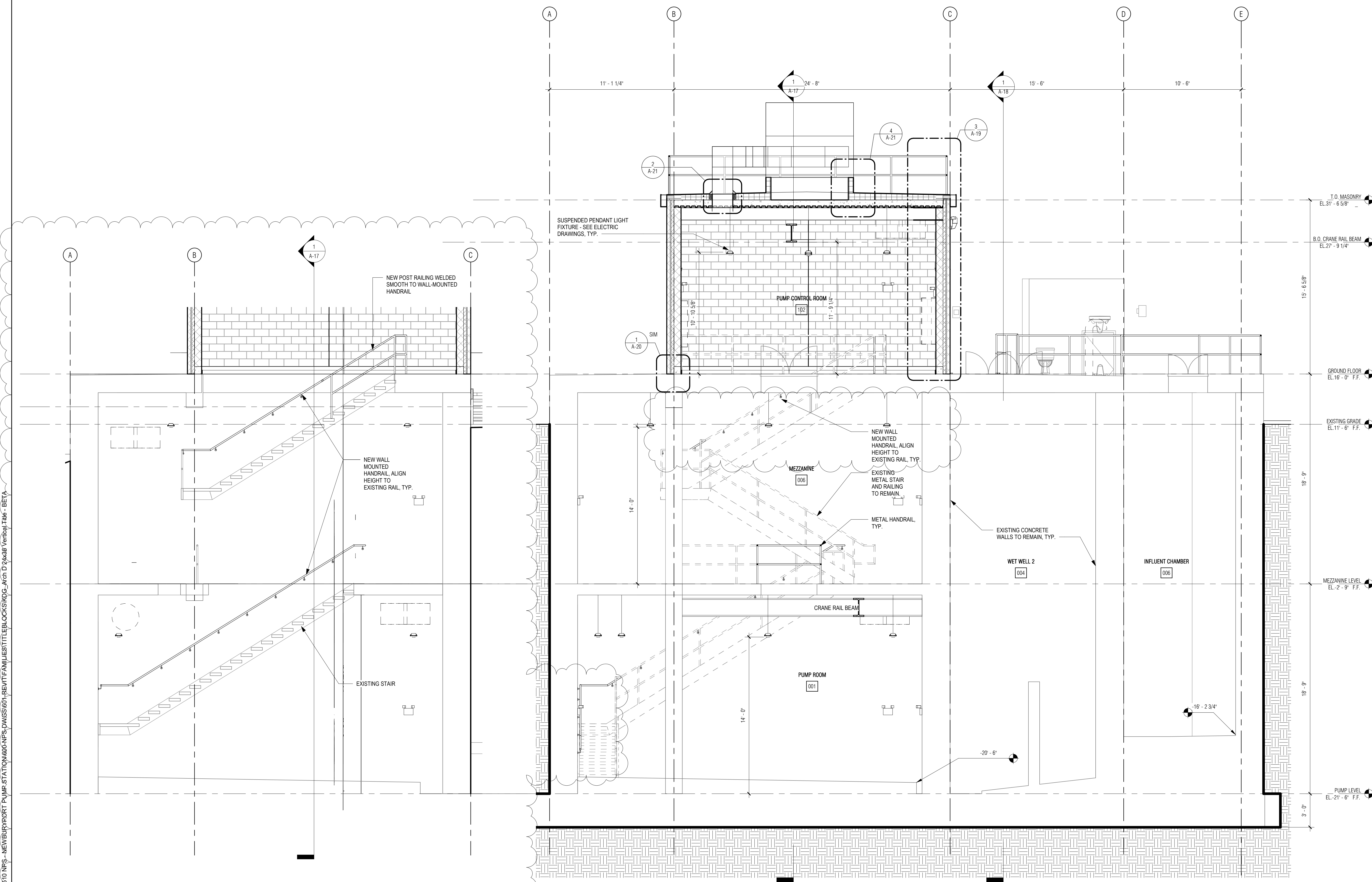
REVISIONS

| NO. | DESCRIPTION | DATE |
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| 1 | 08/30/2021 Railing | |

DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 3/31/2022
 BETA JOB No.: 5530

SCALE
As indicated

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CONTRACT 2
 SHEET NO. **A-16**




2 WALL MOUNTED HANDRAIL ELEVATION
 1/4" = 1'-0"


1 NORTH-SOUTH SECTION
 1/4" = 1'-0"


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GENERAL NOTES: BUILDING SECTIONS
 1. REFER TO DWG A-01 FOR GENERAL NOTES
 2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
 3. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
 4. REFER TO DWG A-27 FOR FINISH SCHEDULE AND MATERIALS
 5. PIPING AND DUCT WORK SHOWN FOR DIAGRAMMATIC PURPOSES, REFER TO ENGINEER DWGS FOR DETAILS

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REGISTERED PROFESSIONAL


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 ARCHITECTS + PLANNERS
 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
TAUNTON, MA

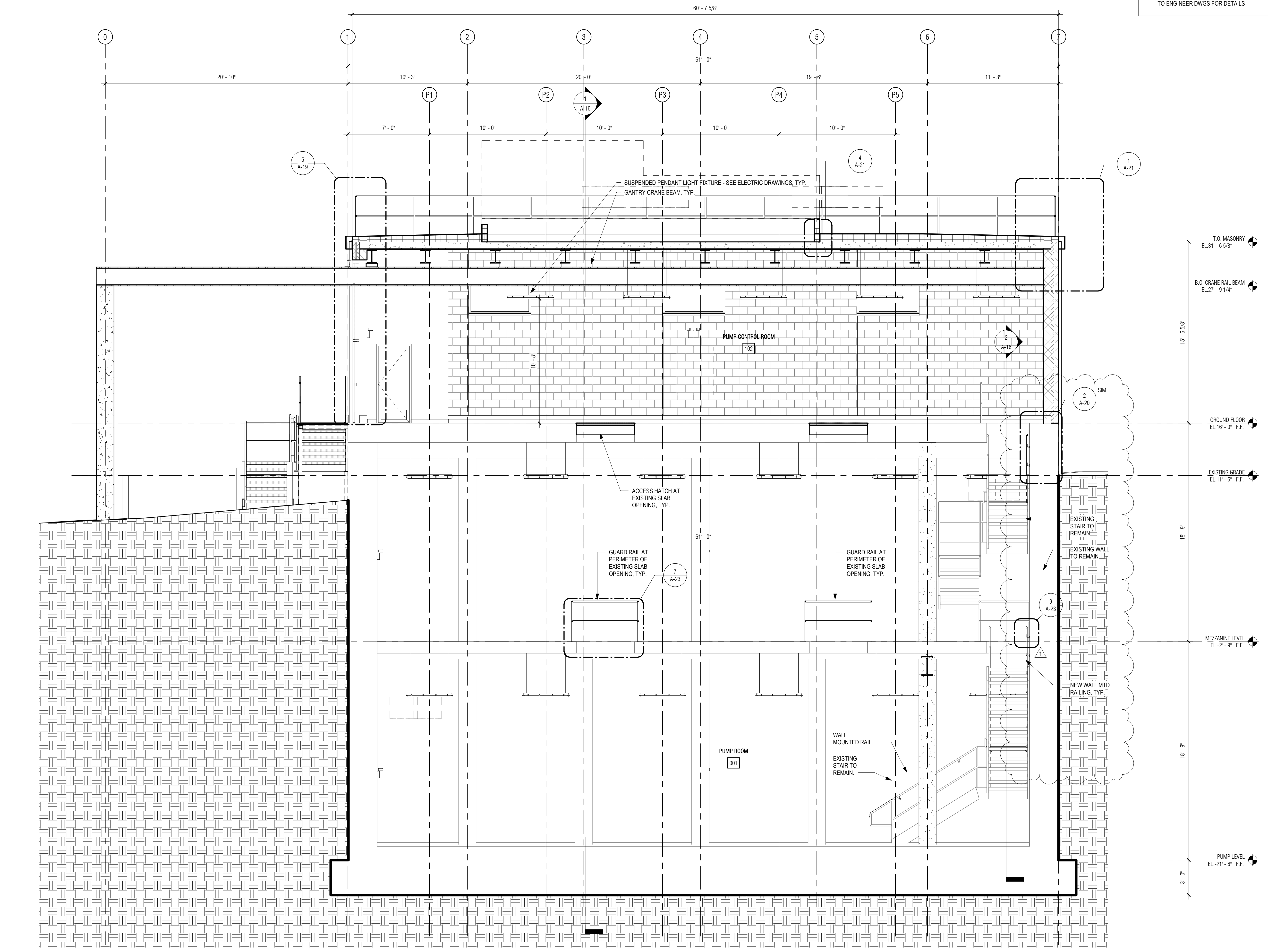
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BUILDING SECTIONS

REVISIONS

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| 1 | 08/30/2021 | Railing |
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DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 3/31/2022
 BETA JOB No.: 5530

SCALE
As indicated
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CONTRACT 2
 SHEET NO. **A-17**



1 EAST-WEST SECTION THROUGH PUMP RM
 1/4" = 1'-0"

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GENERAL NOTES: BUILDING SECTIONS

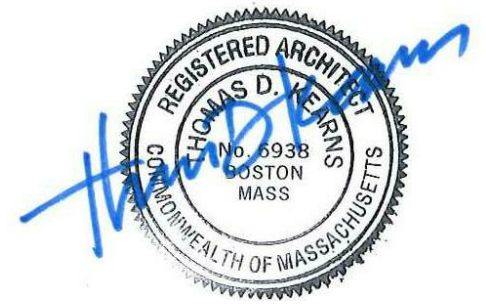
1. REFER TO DWG A-01 FOR GENERAL NOTES
2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
3. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
4. REFER TO DWG A-27 FOR FINISH SCHEDULE AND MATERIALS
5. PIPING AND DUCT WORK SHOWN FOR DIAGRAMMATIC PURPOSES, REFER TO ENGINEER DWGS FOR DETAILS

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REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

BUILDING SECTIONS

REVISIONS

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DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

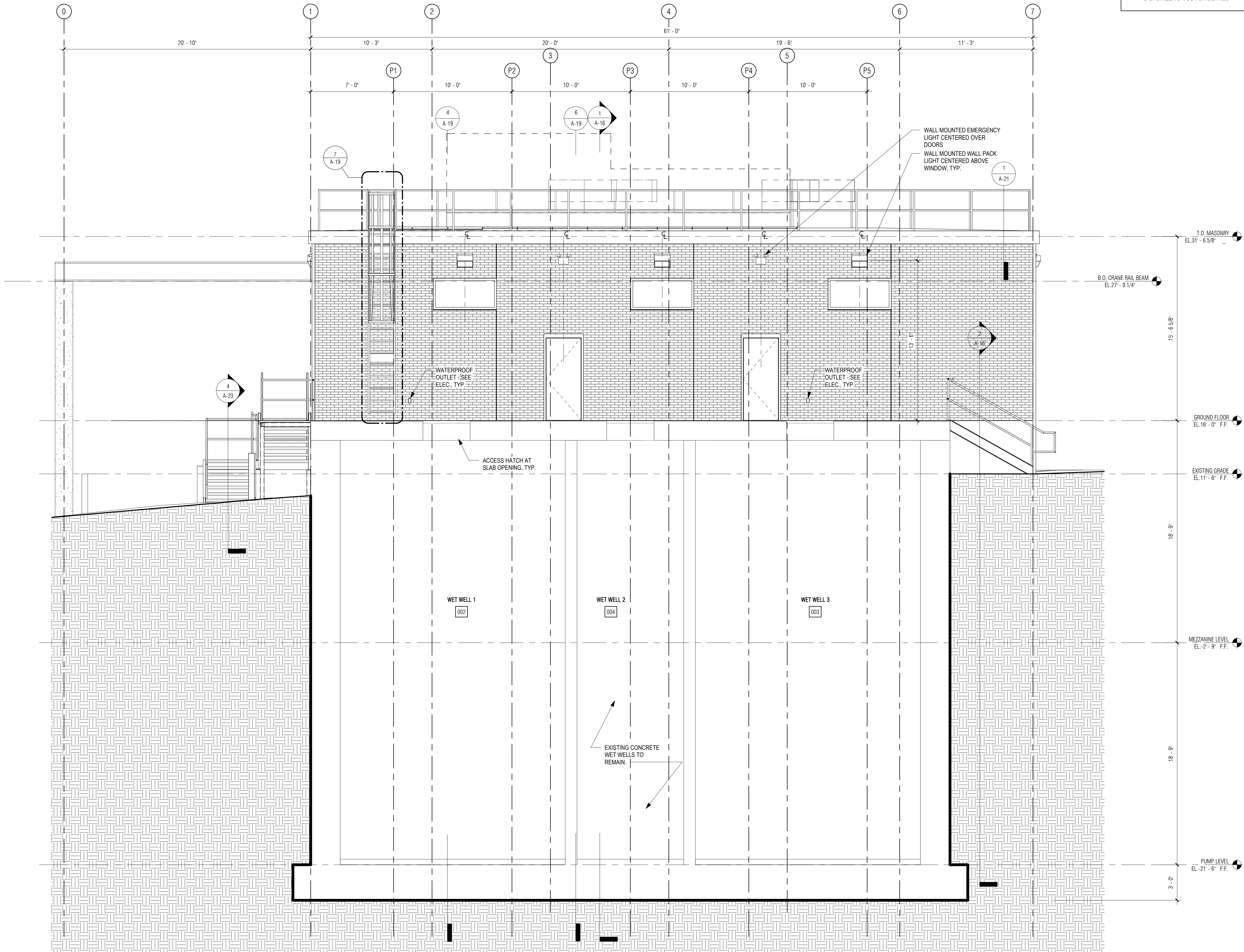
As indicated

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CONTRACT 2

SHEET NO.

A-18




1 EAST-WEST SECTION THROUGH WET WELLS
1/4" = 1'-0"

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GENERAL NOTES: DETAILS
 1. REFER TO DWG A-01 FOR GENERAL NOTES
 2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

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REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
 ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

WALL SECTIONS

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DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 3/31/2022
 BETA JOB No.: 5530

SCALE

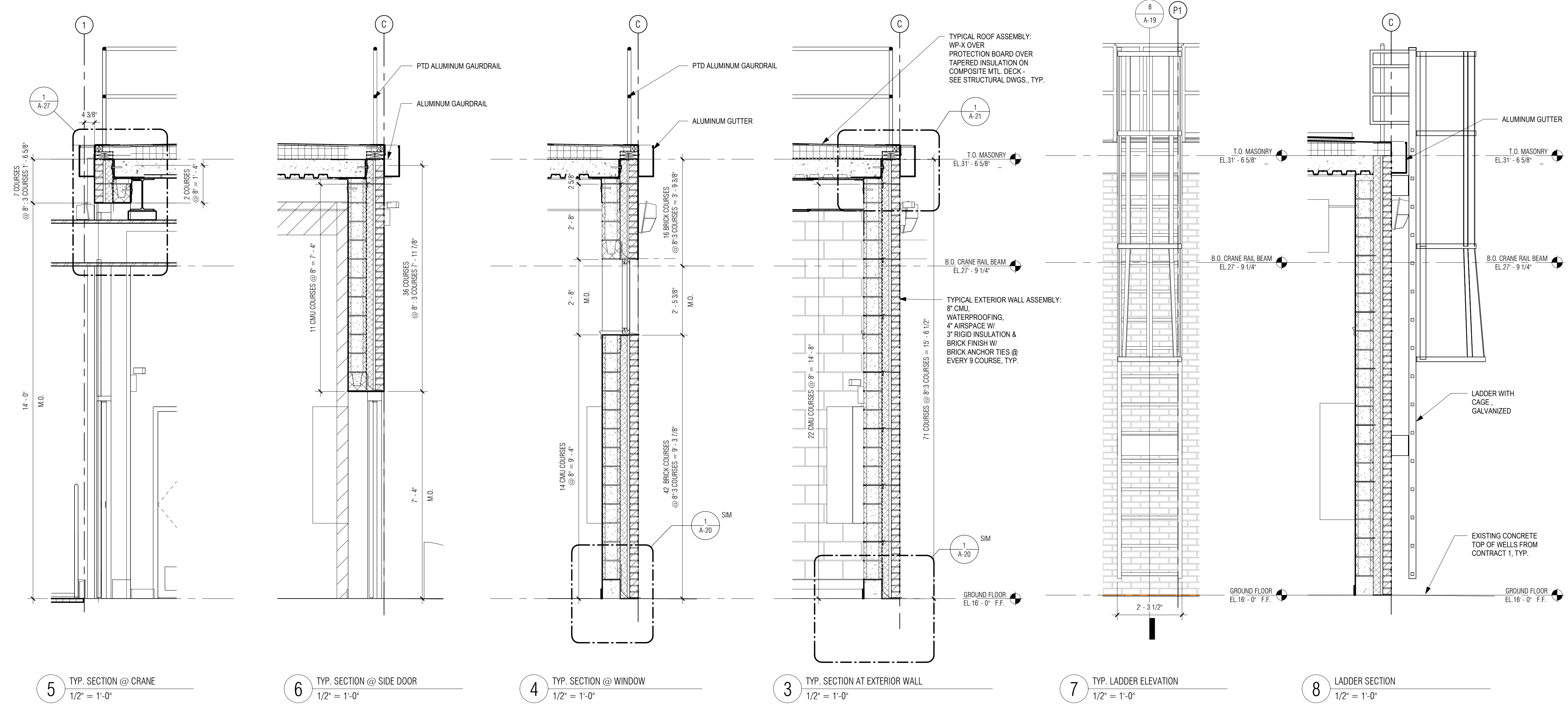
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UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CONTRACT 2

SHEET NO.

A-19



5 TYP. SECTION @ CRANE
1/2" = 1'-0"

6 TYP. SECTION @ SIDE DOOR
1/2" = 1'-0"

4 TYP. SECTION @ WINDOW
1/2" = 1'-0"

3 TYP. SECTION AT EXTERIOR WALL
1/2" = 1'-0"

7 TYP. LADDER ELEVATION
1/2" = 1'-0"

8 LADDER SECTION
1/2" = 1'-0"

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GENERAL NOTES: DETAILS

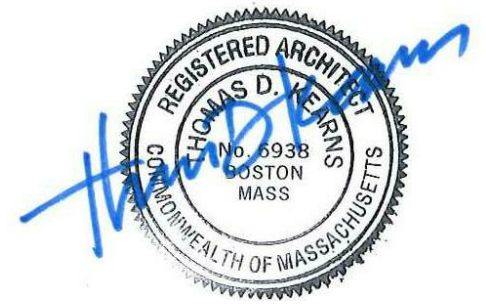
1. REFER TO DWG A-01 FOR GENERAL NOTES
2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

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REGISTERED PROFESSIONAL



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DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

MASONRY DETAILS

REVISIONS

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DRAWN BY: TM

DESIGNED BY: DSK

CHECKED BY: MPS

DSK JOB No.: TPS-1795 DATE: 3/31/2022

BETA JOB No.: 5530

SCALE

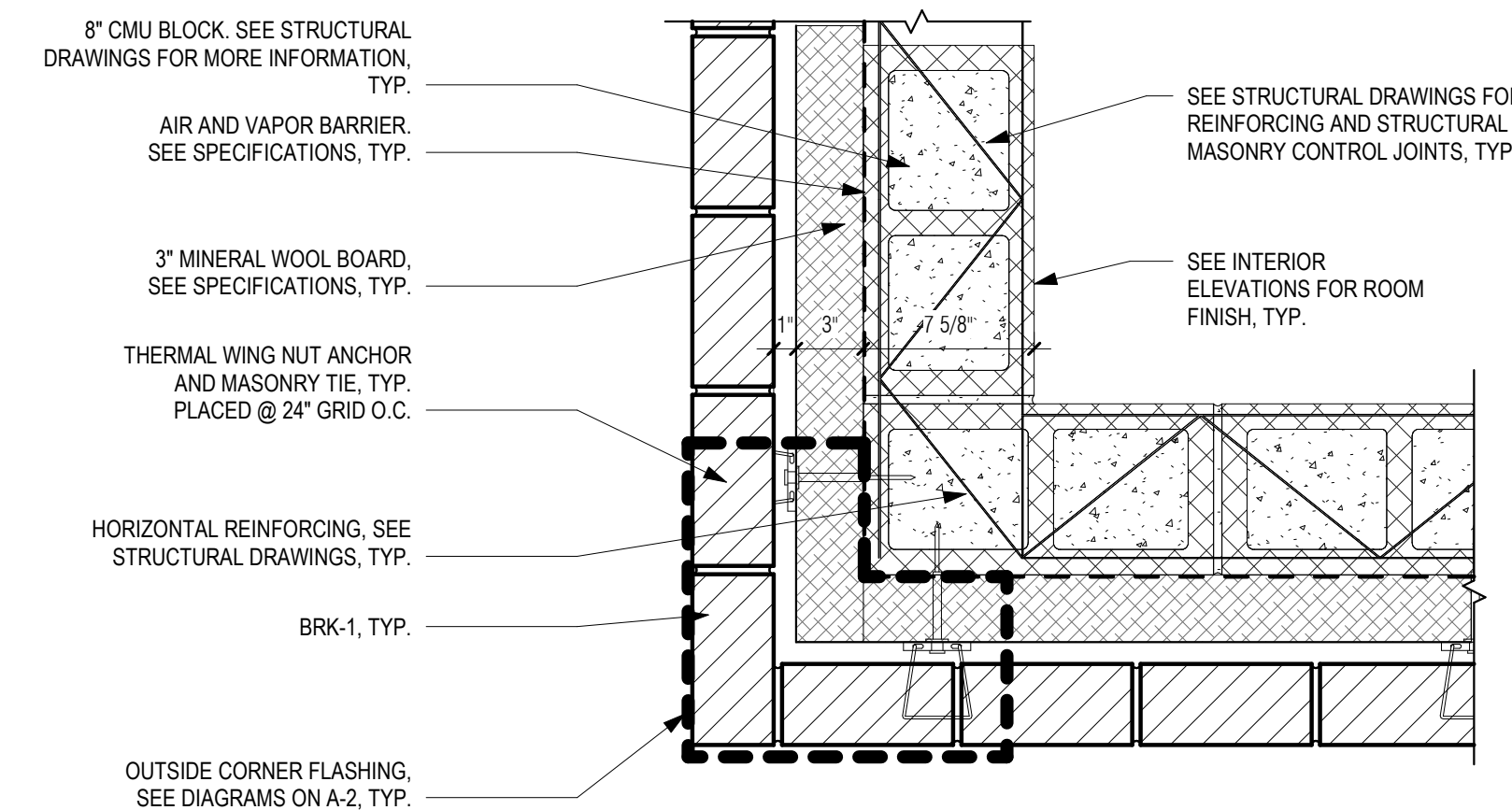
As indicated

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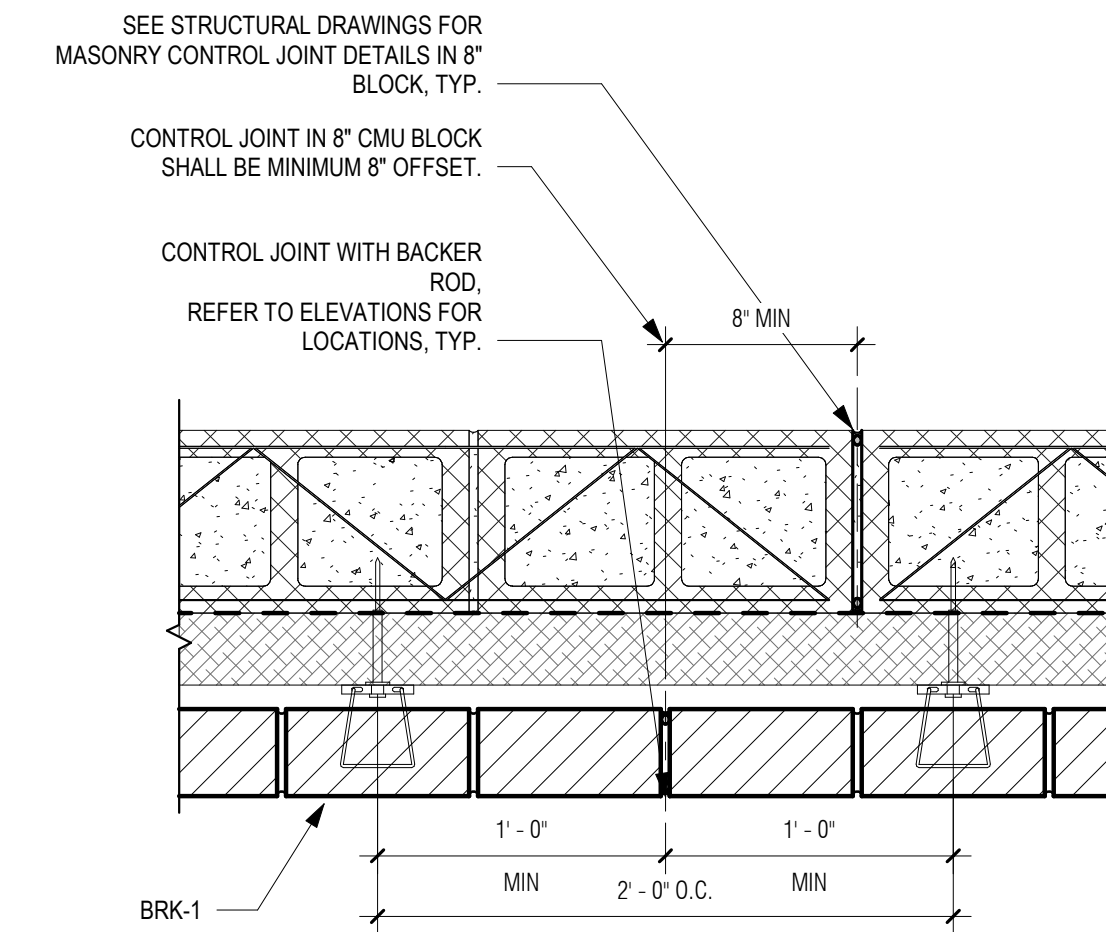
CONTRACT 2

SHEET NO.

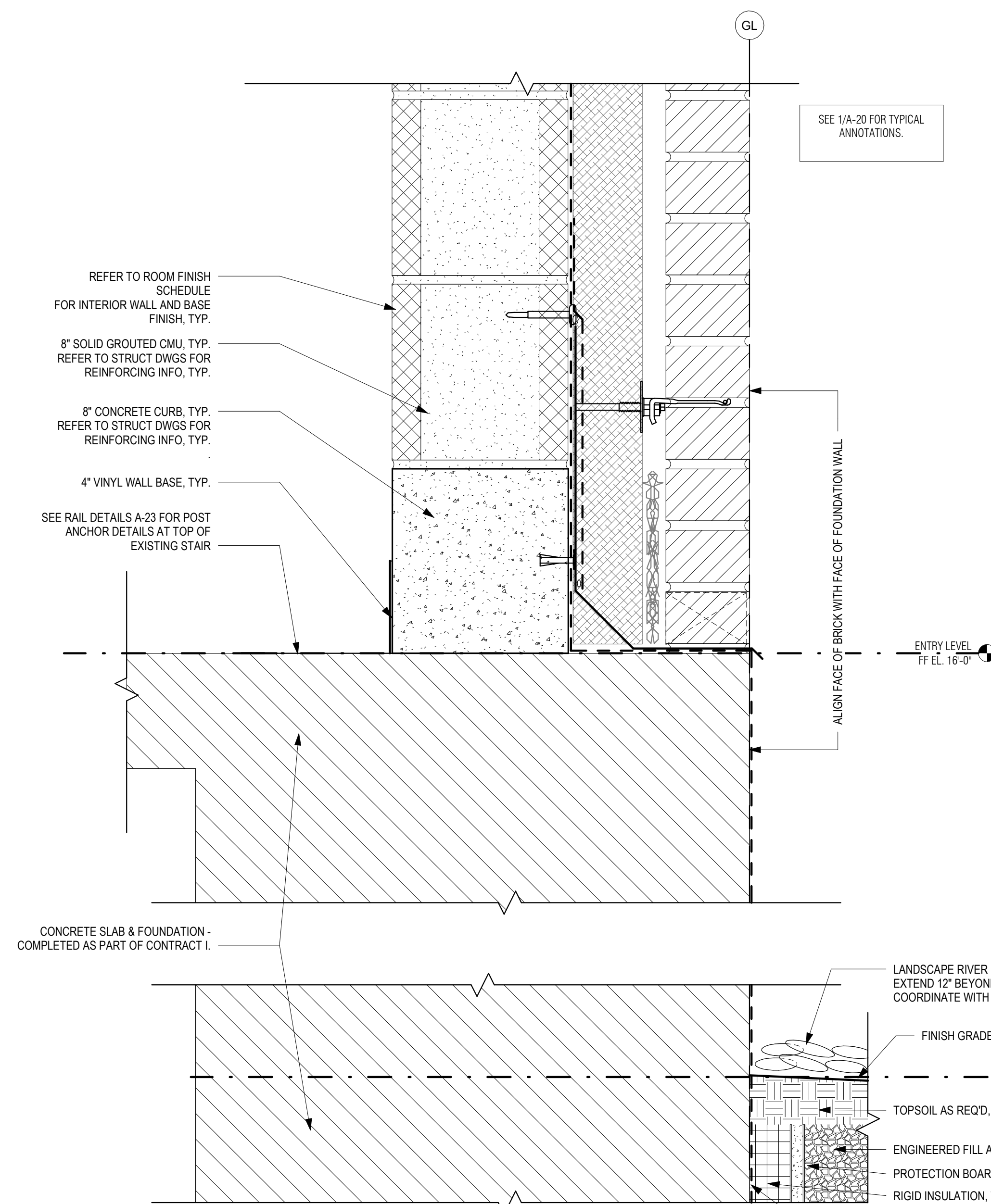
A-20



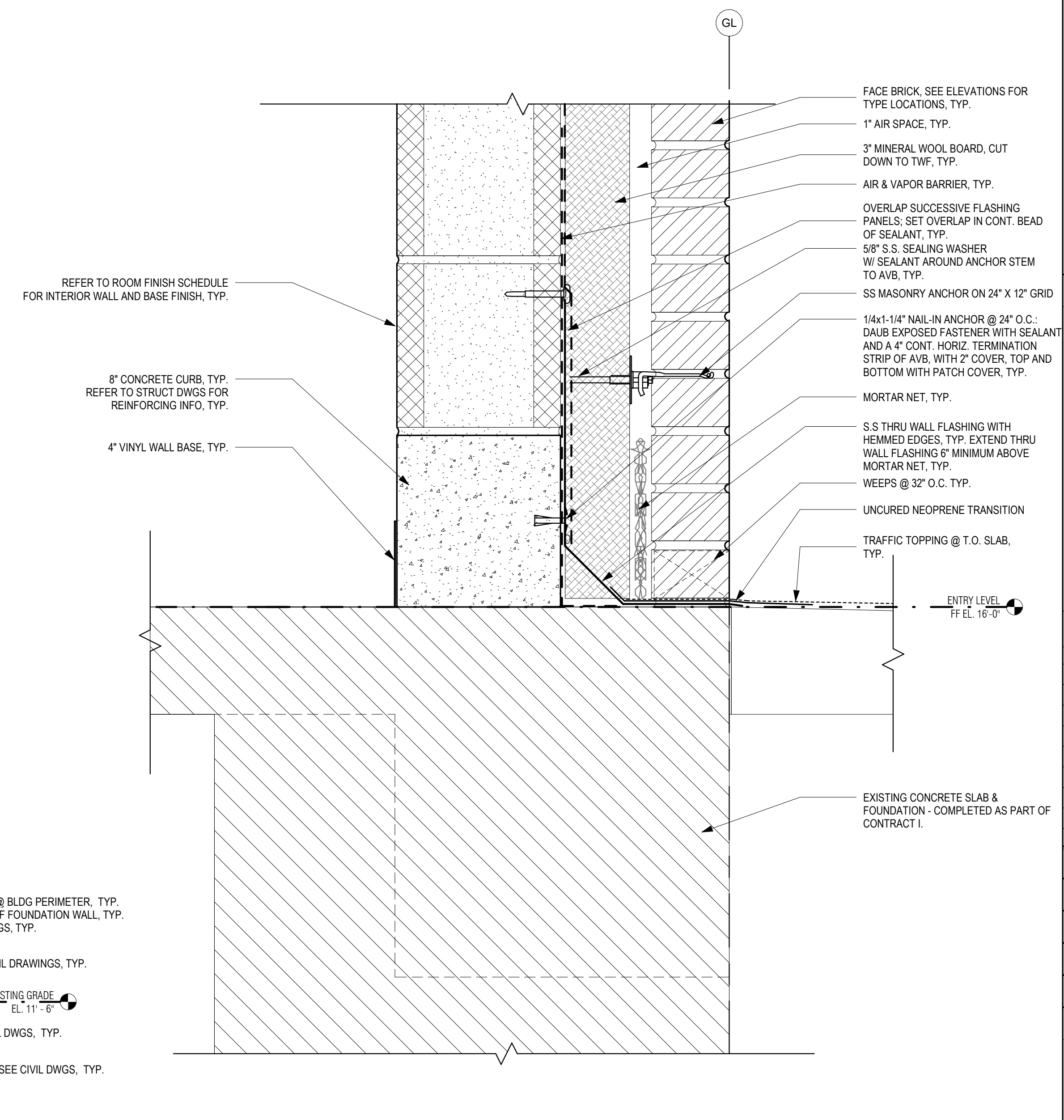
5 PLAN DETAIL - BRICK - CORNER DETAILS
1 1/2" = 1'-0"



4 PLAN DETAIL - BRICK CONTROL JOINT
1 1/2" = 1'-0"




2 TYP. WALL SECTION DETAIL @ EXT RC WALL
3" = 1'-0"





1 TYP. WALL SECTION DETAIL @ STRUCTURED SLAB AND RC WALL
3" = 1'-0"

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GENERAL NOTES: DETAILS
 1. REFER TO DWG A-01 FOR GENERAL NOTES
 2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

PREPARED BY:

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REGISTERED PROFESSIONAL


SUBCONSULTANT:

 ARCHITECTS + PLANNERS
 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

TITLE
ROOF DETAILS

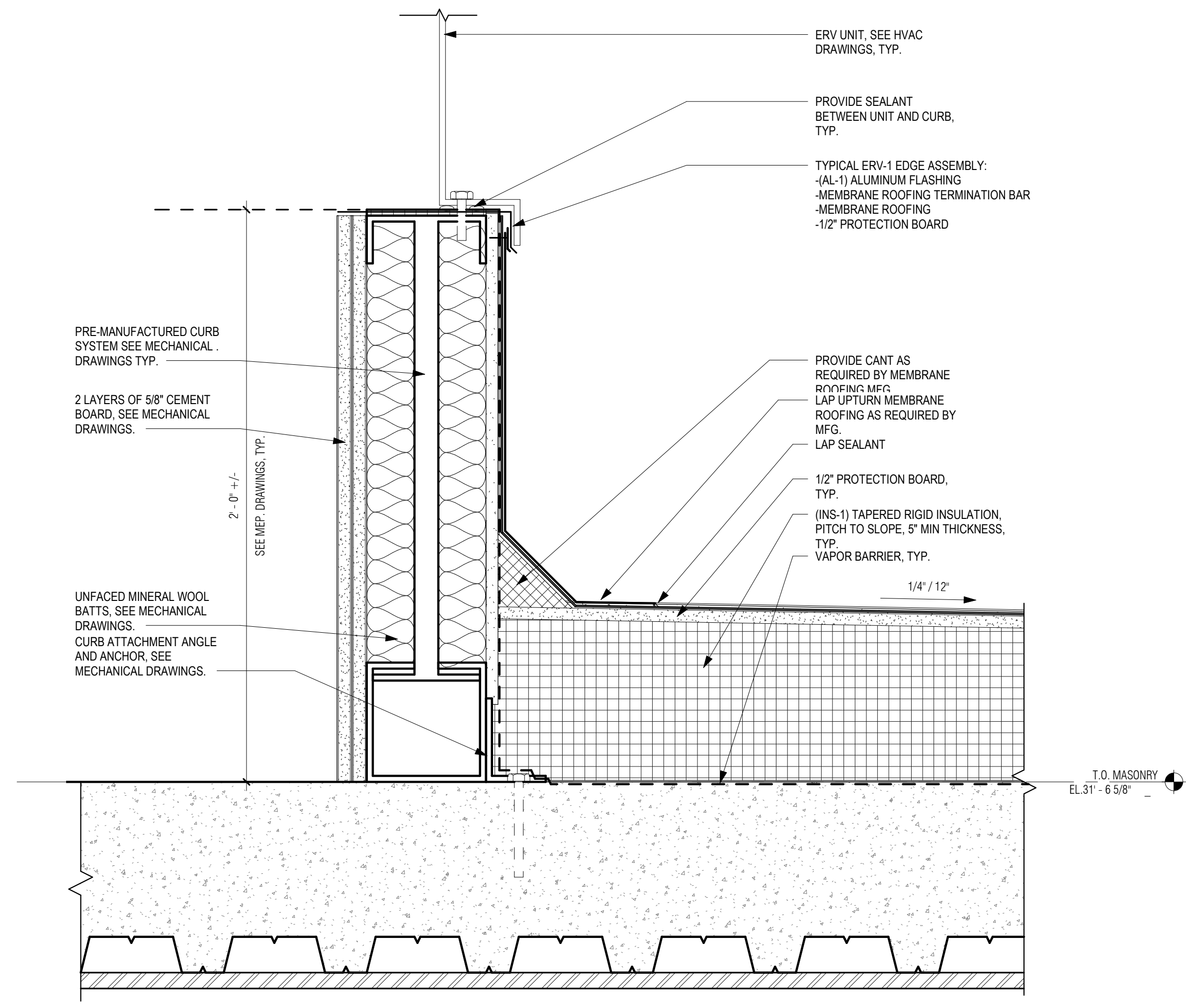
REVISIONS

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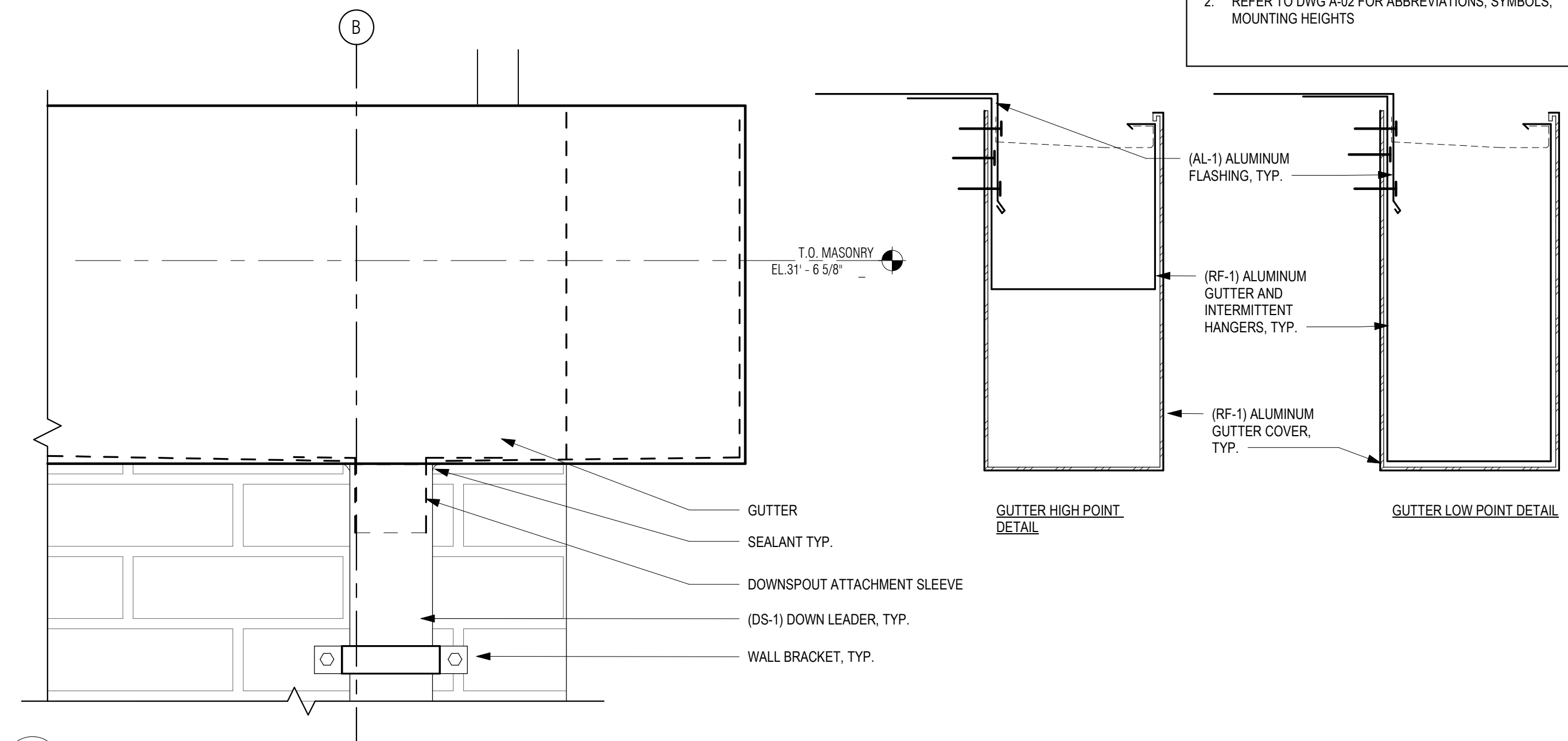
DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 3/31/2022
 BETA JOB No.: 5530

SCALE
As indicated
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

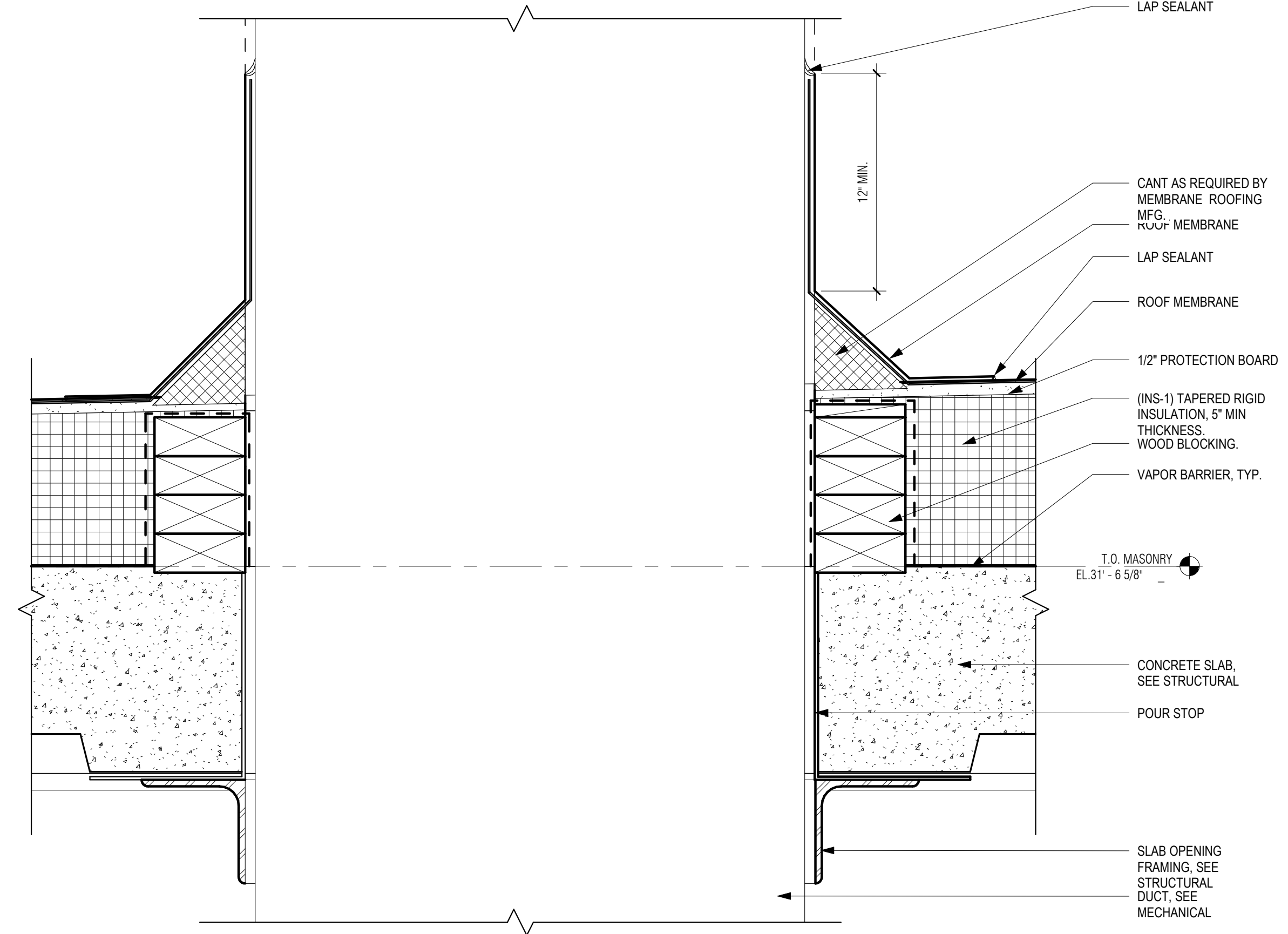
CONTRACT 2
 SHEET NO. **A-21**



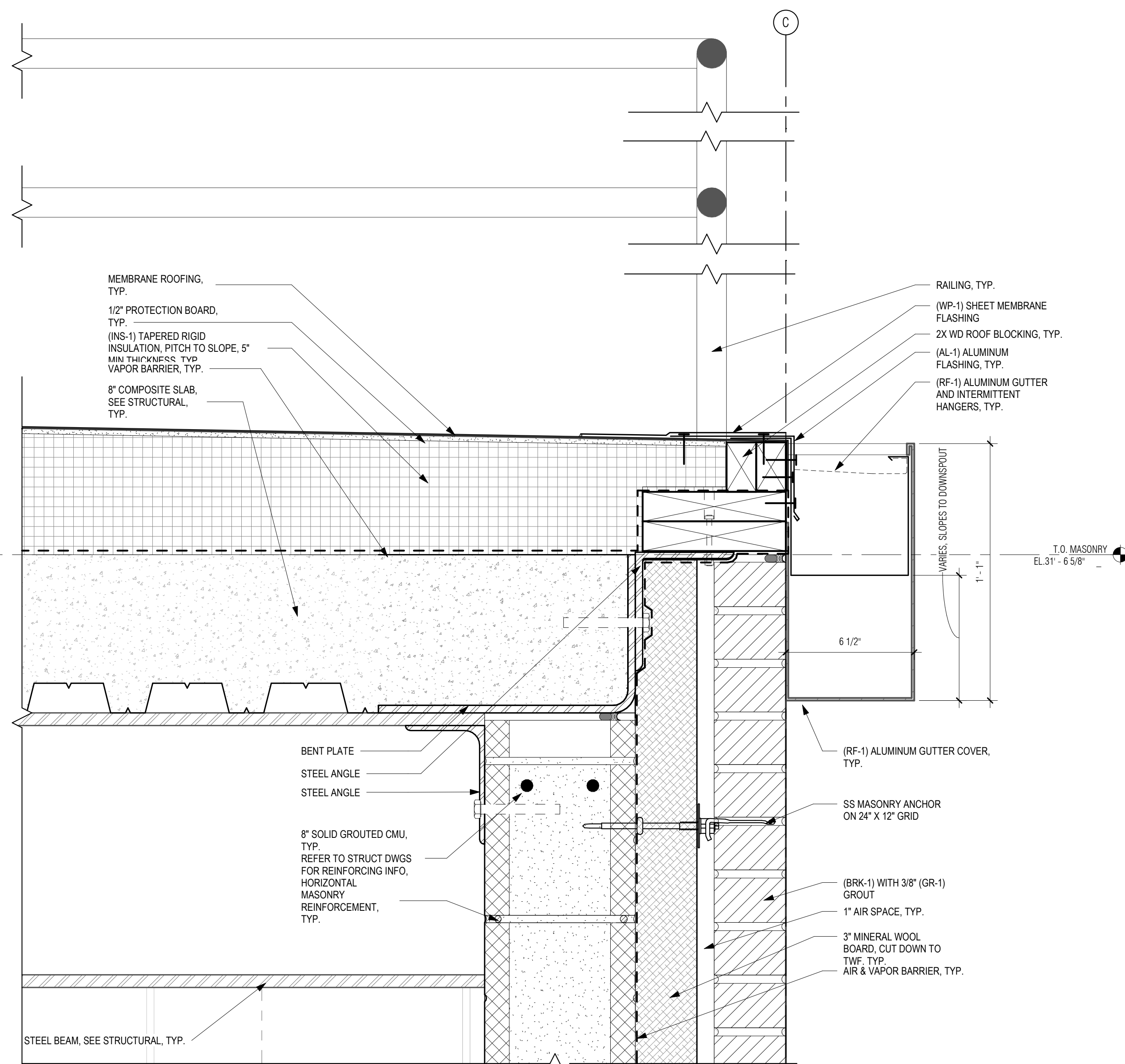
4 TYPICAL ERV-1 ROOF CURB DETAIL
 3' = 1'-0"



3 GUTTER DETAILS
 3' = 1'-0"



2 DUCT PENETRATION DETAIL
 3' = 1'-0"



1 TYP. SECTION DETAIL @ PARAPET
 3' = 1'-0"

| TOILET ACCESSORY SCHEDULE | |
|---------------------------|--|
| CODE | DESCRIPTION |
| TA-1 | 24"x36" MIRROR |
| TA-2 | CONTURA SERIES SURFACE MOUNTED SOAP DISPENSER |
| TA-3 | SEMI-RECESSED CONVERTIBLE PAPER TOWEL DISPENSER AND WASTE RECEPTACLE |
| TA-4 | SURFACE MOUNTED DOUBLE TOILET PAPER DISPENSER |

GENERAL NOTES: INTERIOR ELEVATIONS

- REFER TO DWG A-01 FOR GENERAL NOTES
- REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
- REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
- REFER TO DWG A-27 FOR FINISH SCHEDULE AND MATERIALS
- ALL FURNITURE SHOWN FOR REFERENCE ONLY, N.I.C. TYP.
- REFER TO MEP DRAWINGS FOR MORE INFORMATION ABOUT PLUMBING AND LIGHT FIXTURES, MECHANICAL AND ELECTRICAL EQUIPMENT AND SERVICES, TYP.

PREPARED BY:



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PLOT DATE: 8/29/2021 4:00:13 PM

REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

INTERIOR ELEVATIONS AND WC PLAN

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
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DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

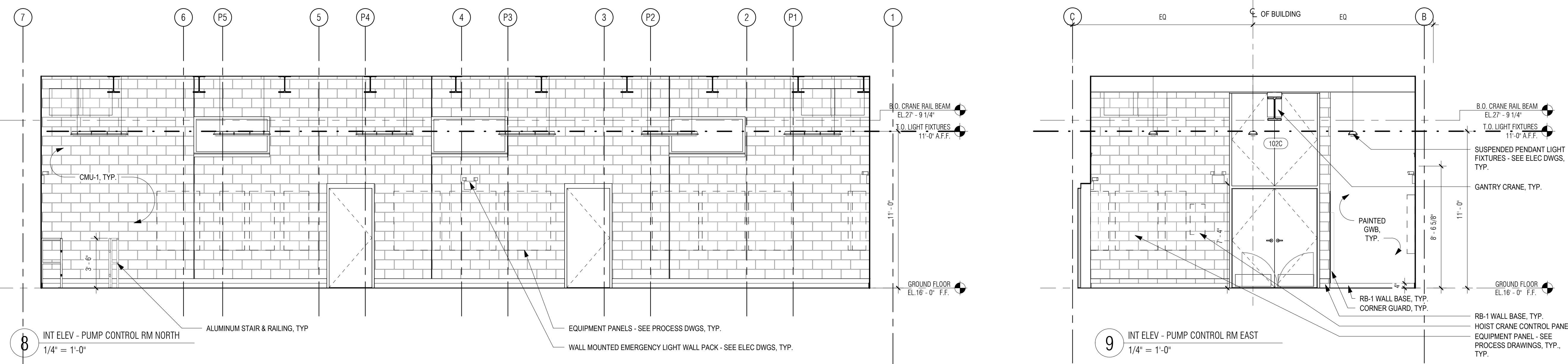
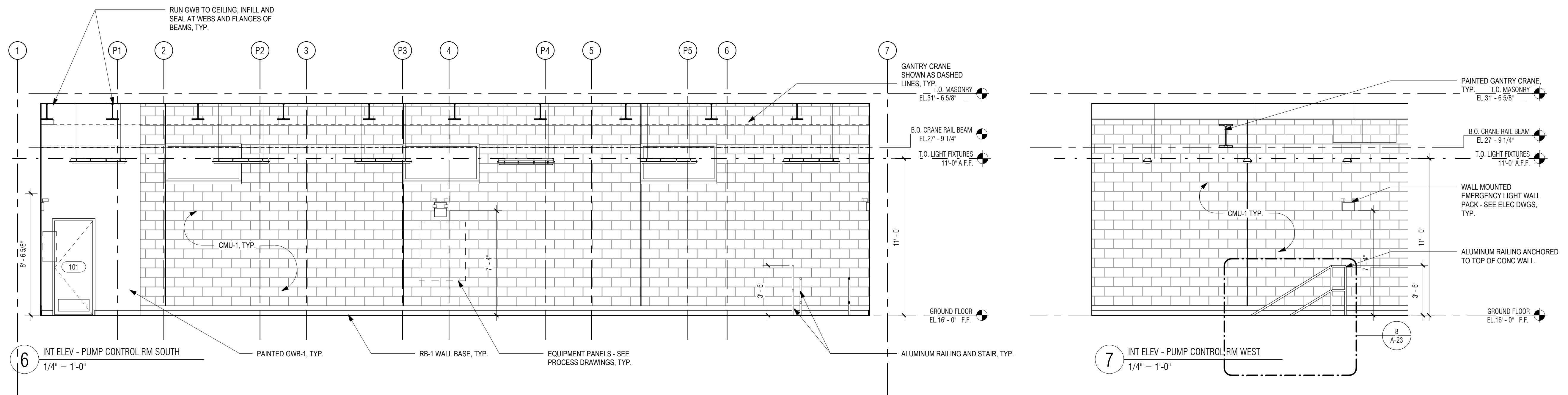
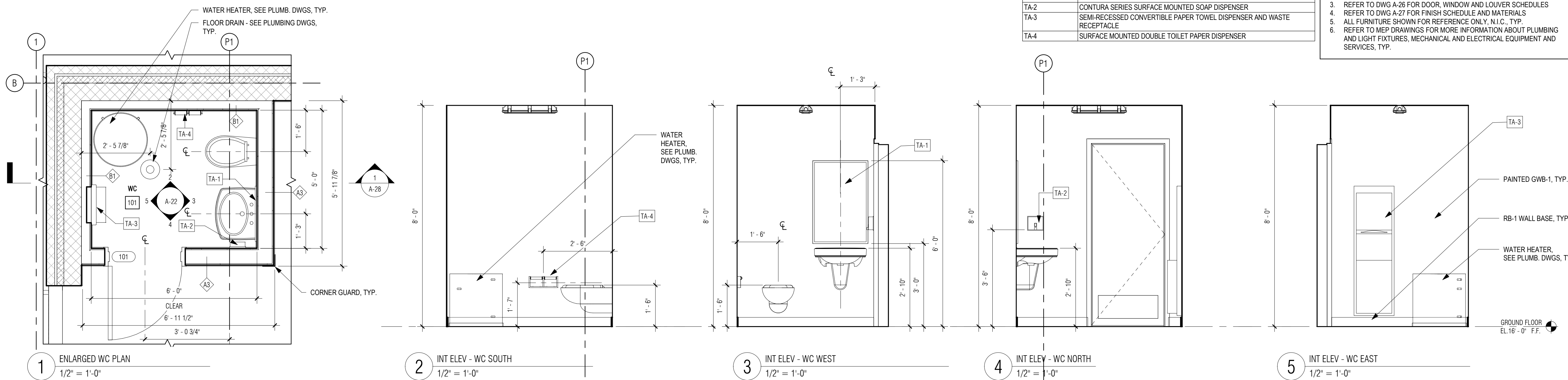
As indicated

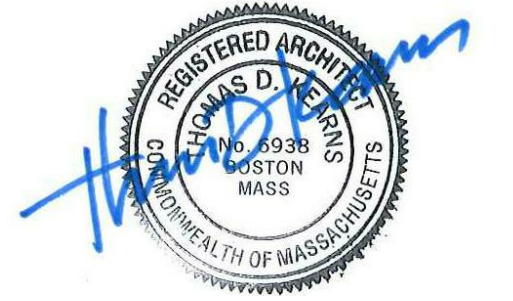
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CONTRACT 2

SHEET NO.

A-22





REVISIONS

| NO. | DESCRIPTION | DATE |
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| 1 | 08/30/2021 | Railing |
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DRAWN BY: TM

DESIGNED BY: DSK

CHECKED BY: MPS

DSK JOB No.: TPS-1795 DATE: 3/31/2022

BETA JOB No.: 5530

SCALE

As indicated

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CONTRACT 2

SHEET NO.

A-23

GENERAL NOTES: DETAILS

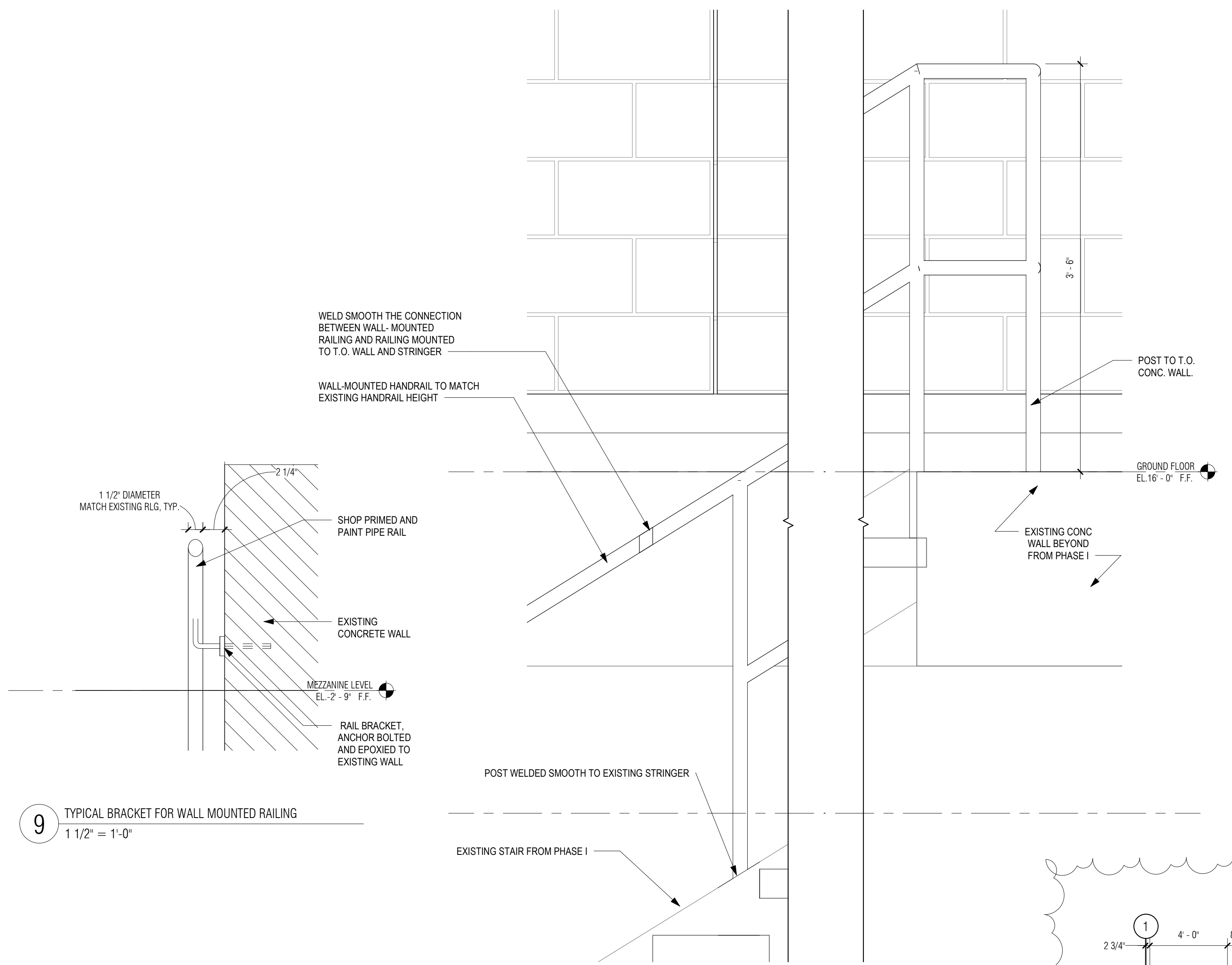
- REFER TO DWG A-01 FOR GENERAL NOTES
- REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

- TYP. GUARDRAIL ASSEMBLY NOTE:
- OSHA COMPLIANT GUARDRAIL ASSEMBLY
 - AL CONSTRUCTION ASSEMBLY OF PIPE BRACKETS, SLEEVES, ETC
 - S.S. FASTENERS THROUGHOUT
 - VERTICAL POST @ 4' O.C. MAX. TYP.

- TYP. GUARDRAIL ASSEMBLY NOTE:
- OSHA COMPLIANT GUARDRAIL ASSEMBLY
 - AL CONSTRUCTION ASSEMBLY OF PIPE BRACKETS, SLEEVES, ETC
 - S.S. FASTENERS THROUGHOUT
 - VERTICAL POST @ 4' O.C. MAX. TYP.

- AL 3/16" x 4" x 1 1/2" ANGLE TOE KICK @ EDGE OF FLOOR SURFACE, BOLTED TO SLAB @ 18" O.C. MAX.

- AL 3/16" x 1 1/2" ANGLE TOE KICK @ EDGE OF FLOOR SURFACE, BOLTED TO SLAB @ 18" O.C. MAX.

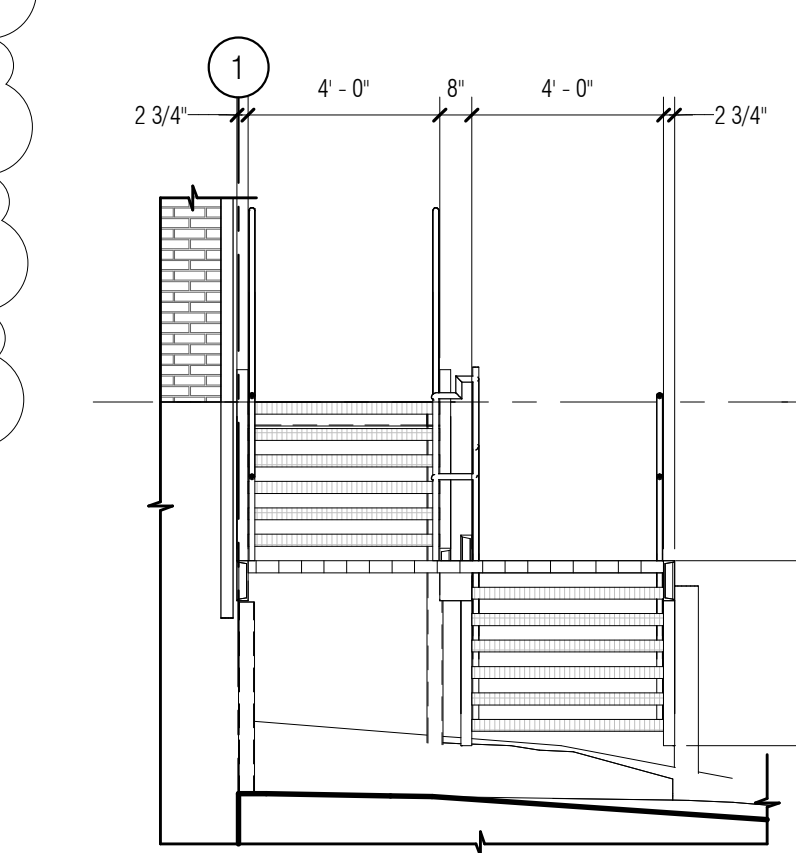


9 TYPICAL BRACKET FOR WALL MOUNTED RAILING
1 1/2" = 1'-0"

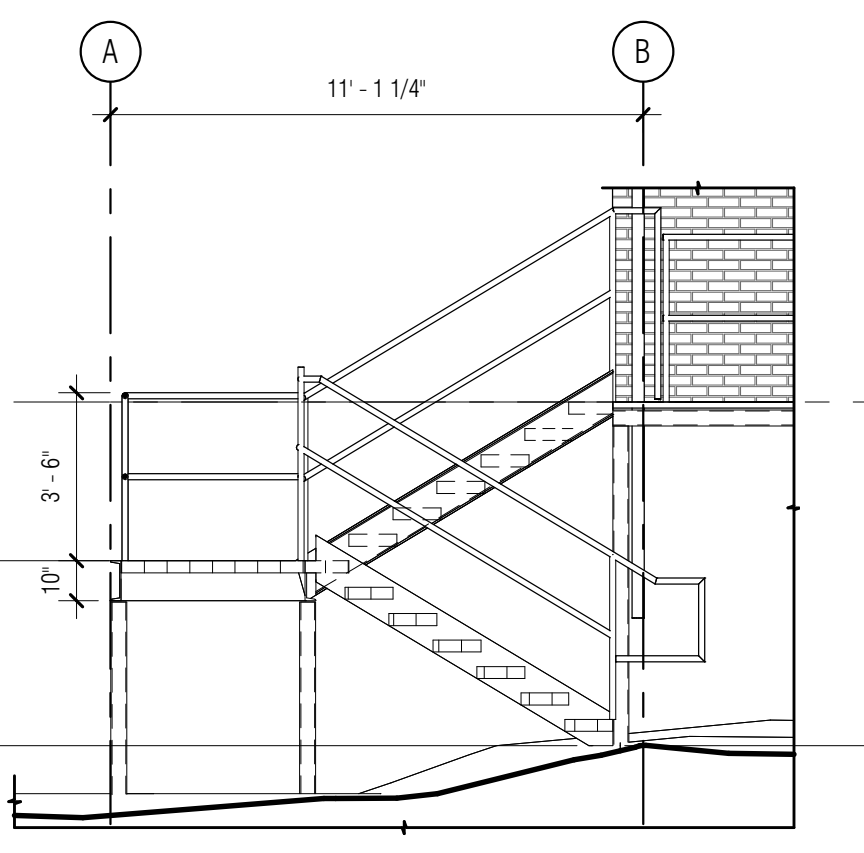
8 RAILING DETAIL AT T.O.W.
1 1/2" = 1'-0"

7 TYPICAL SECTION THROUGH GUARD RAIL @ MEZZANINE SLAB OPENING
1 1/2" = 1'-0"

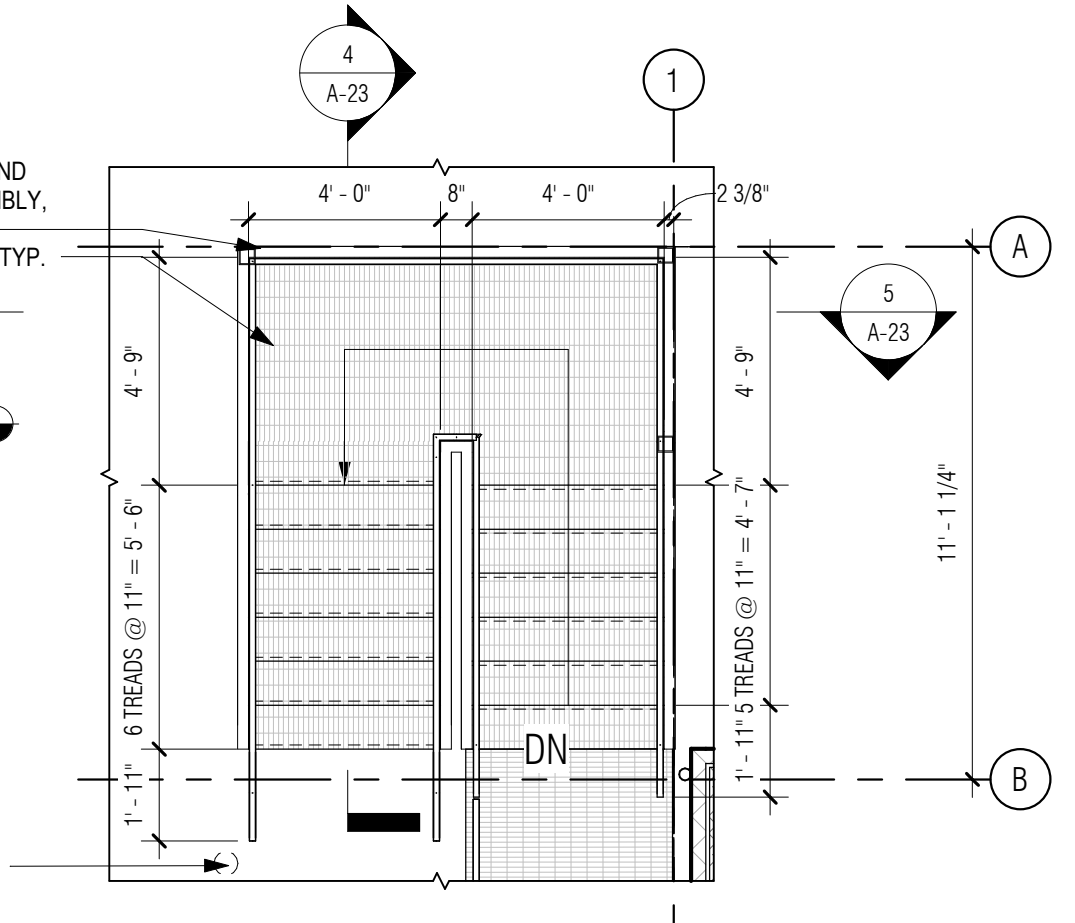
6 TYP RAILING DTL
1 1/2" = 1'-0"



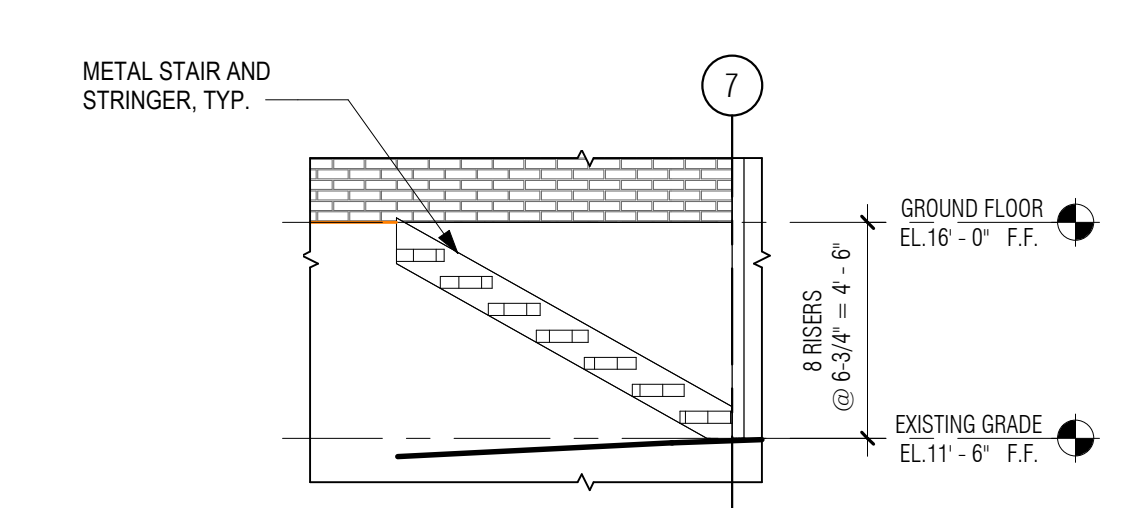
5 SECTION THROUGH REAR EXTERIOR STAIR
1/4" = 1'-0"



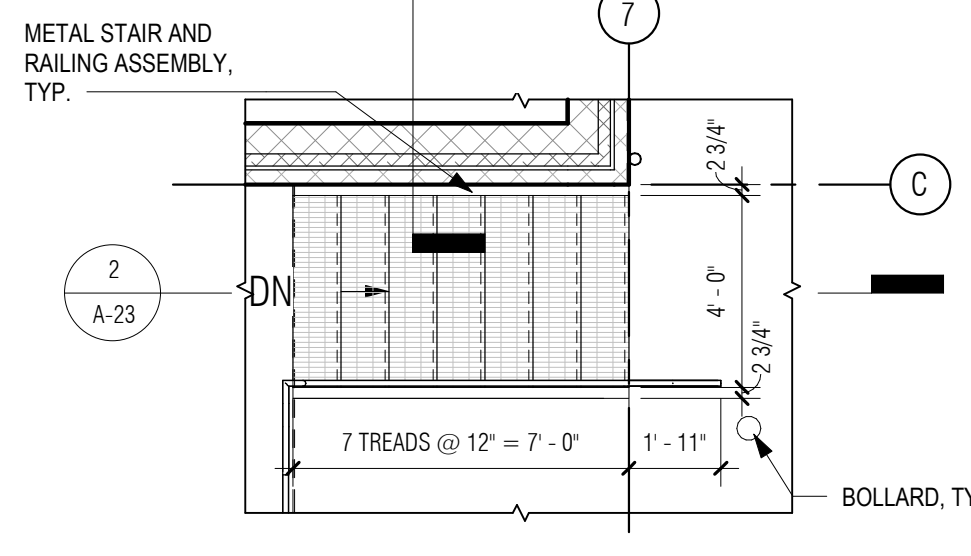
4 LONG SECTION THROUGH REAR EXTERIOR STAIRS
1/4" = 1'-0"



3 ENLARGED STAIR PLAN - EXTERIOR REAR STAIR
1/4" = 1'-0"



2 SECTION THROUGH EXTERIOR ENTRY STAIR 'B'
1/4" = 1'-0"



1 ENLARGED STAIR 'B' PLAN - EXTERIOR ENTRY STAIR 'B'
1/4" = 1'-0"

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\601-REV\IT\FAMILIES\TITLEBLOCKS\KOC_Arch.D 24x36 Vertical Title - BETA

HARDWARE SCHEDULE

| | |
|-------|---|
| HD-1 | ENTRANCE LEVER SET 1 1/2 BUTTS BULB WEATHER STRIPPING ALL AROUND BOTTOM SWEEP MOP PLATE INTERIOR SIDE ONLY HEAVY DUTY THRESHOLD WITH GASKET OVERHEAD CLOSER SILENCER |
| HD-3A | MULTI-SET LOWER DOORS 3 BUTTS BULB WEATHER STRIPPING ALL AROUND STORE ROOM FUNCTION LEVER SET ON ACTIVE LEAF DUMMY LEVER SET ON INACTIVE LEAF BOTTOM SURFACE FLUSH BOLTS ON INACTIVE LEAF TOP SURFACE FLUSH BOLTS ON INACTIVE LEAF WITH LONG THROW KICK PLATE EXTERIOR SIDE MOP PLATE INTERIOR SIDE PAIR OF WALL STOPS WITH HOOK AND EYE ASTRAGAL SILENCER |
| HD-3B | MULTI-SET UPPER DOORS PAIR HAS NO LEVER SET 3 BUTTS BULB WEATHER STRIPPING ALL AROUND BOTTOM SURFACE FLUSH BOLTS ON BOTH LEAFS PAIR OF WALL STOPS WITH HOOK AND EYE ASTRAGAL BRUSH WEATHERSTRIPPING AROUND BEAM OPENING SEE DOOR DETAIL SHEETS FOR NEOPRENE GASKET INFO |
| HD-5 | PRIVACY LEVER SET 1 1/2 BUTTS MOP PLATE BOTH SIDES OVERHEAD CLOSER WALL STOP SILENCER |
| HD-7 | MANUFACTURERS HARDWARE WITH TAMPER PROOF KEY SET FULLY WATERPROOF GASKET SEAL ALL AROUND |
| HD-8 | MANUFACTURERS HARDWARE |

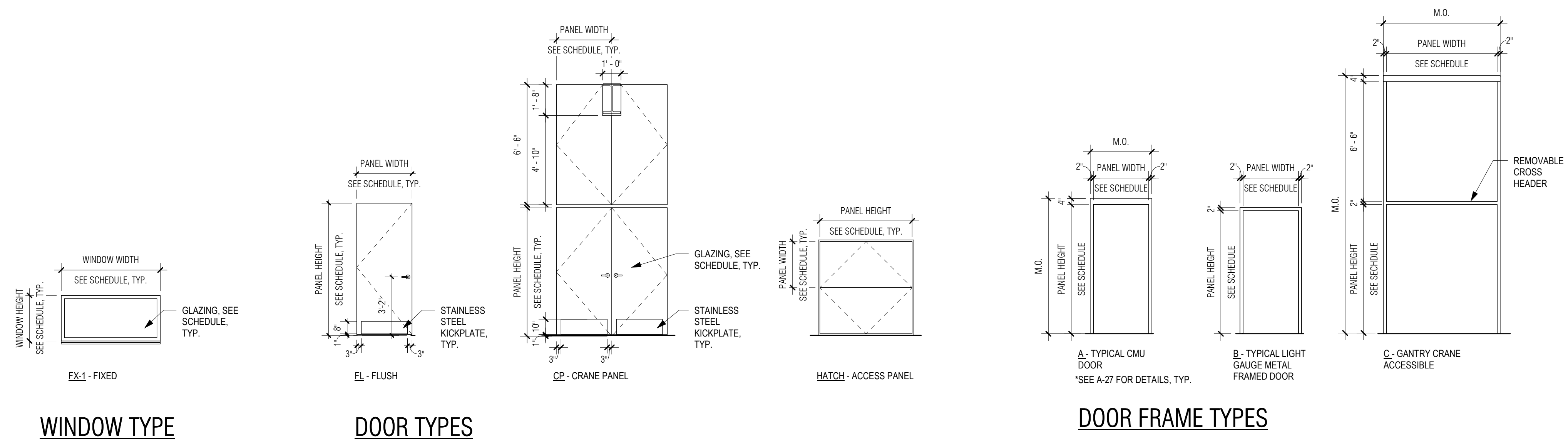
NOTES:
ALL HARDWARE SATIN SS FINISH
PROVIDE KEYBOX IN OFFICE
ALL EXTERIOR DOORS TO BE INSULATED
PROVIDE SWEEPS AT ALL EXTERIOR DOORS
PROVIDE SS DRIP CAP AT ALL EXTERIOR DOORS

DOOR SCHEDULE

| DOOR NUMBER | DOOR TYPE | LOCATION | | DOOR | | | | FRAME | | | | FIRE RATING | HARDWARE | NOTES | | |
|--------------|-----------|-------------|-------------------|------------|--------|-----------------|-------------------|-------|--------|--------------|------------|-------------|----------|-------|----------------|--------|
| | | ROOM NUMBER | ROOM NAME | PANEL SIZE | | PANEL THICKNESS | TOTAL PANEL COUNT | MATL | FINISH | GLAZING TYPE | FRAME TYPE | | | | THRESHOLD TYPE | GASKET |
| | | | | WIDTH | HEIGHT | | | | | | | | | | | |
| GROUND FLOOR | | | | | | | | | | | | | | | | |
| 101 | FL | 101 | WC | INT | 2'-8" | 6'-8" | 0'-1 3/4" | 1 | STEEL | | N/A | B | | Yes | HD-5 | |
| 102A | FL | 102 | PUMP CONTROL ROOM | EXT | 3'-0" | 7'-0" | 0'-1 3/4" | 1 | STEEL | | N/A | A | | Yes | HD-1 | |
| 102B | FL | 102 | PUMP CONTROL ROOM | EXT | 3'-0" | 7'-0" | 0'-1 3/4" | 1 | STEEL | | N/A | A | | Yes | HD-1 | |
| 102C | FL | 102 | PUMP CONTROL ROOM | EXT | 3'-0" | 7'-0" | 0'-1 3/4" | 4 | STEEL | | N/A | C | | Yes | HD-3A/3B | |

WINDOW SCHEDULE

| WINDOW NUMBER | WINDOW TYPE | LOCATION | | WINDOW | | FRAME MATERIAL | | FINISH | | | SILL TYPE | HEAD TYPE | JAMB TYPE | NOTES |
|---------------|-------------|-------------|-------------------|-------------|-------------|----------------|------|---------|------|------|-----------|-----------|-----------|-------|
| | | ROOM NUMBER | ROOM NAME | WINDOW SIZE | | EXT | INT | GLAZING | EXT | INT | | | | |
| | | | | WIDTH M.O. | HEIGHT M.O. | | | | | | | | | |
| GROUND FLOOR | | | | | | | | | | | | | | |
| 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 | |



PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

DOOR AND WINDOW SCHEDULES

REVISIONS

| NO. | DESCRIPTION | DATE |
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DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

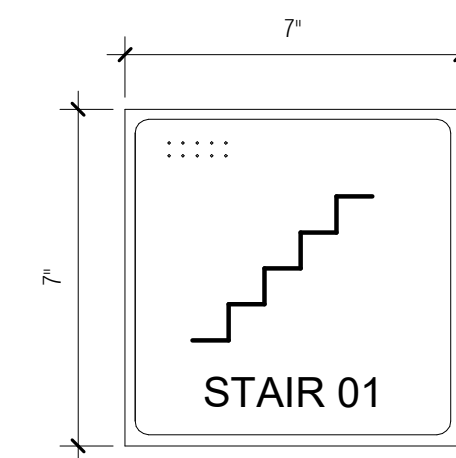
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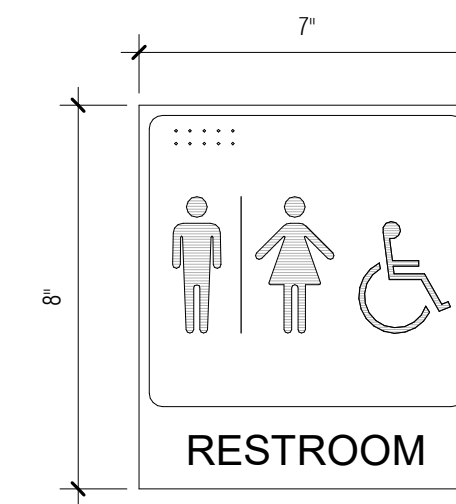
CONTRACT 2

SHEET NO.

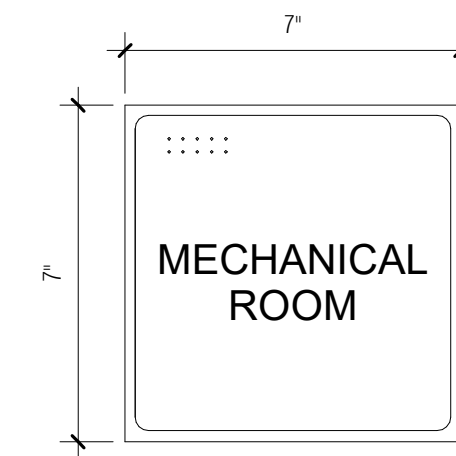
A-24



3 TYPICAL STAIR SIGNAGE
3" = 1'-0"



2 RESTROOM SIGNAGE
3" = 1'-0"



1 TYPICAL ROOM SIGNAGE
3" = 1'-0"

CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3.5 TO 1:1
STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1.5 AND 1:10
FINISH: ADAAG 4.30.5: NON-GLARE
CONTRAST: LIGHT ON DARK
REQUIREMENTS: RAISED LETTERS AND BRAILLE
LOCATION: ON WALL ADJACENT TO LATCH SIDE OF DOOR, 60" A.F.F TO SIGN CENTERLINE.
OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN 3' OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING (SITTING) WITHIN SWING OF DOOR

CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3.5 TO 1:1
STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1.5 AND 1:10
FINISH: ADAAG 4.30.5: NON-GLARE
CONTRAST: LIGHT ON DARK
REQUIREMENTS: RAISED LETTERS AND BRAILLE
LOCATION: ON WALL ADJACENT TO LATCH SIDE OF DOOR, 60" A.F.F TO SIGN CENTERLINE.
OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN 3' OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING (SITTING) WITHIN SWING OF DOOR
THE RESTROOM SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY

CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3.5 TO 1:1
STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1.5 AND 1:10
FINISH: ADAAG 4.30.5: NON-GLARE
CONTRAST: LIGHT ON DARK
REQUIREMENTS: RAISED LETTERS AND BRAILLE
LOCATION: ON WALL ADJACENT TO LATCH SIDE OF DOOR, 60" A.F.F TO SIGN CENTERLINE.
OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN 3' OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING (SITTING) WITHIN SWING OF DOOR

| SIGNAGE SCHEDULE | | |
|------------------|-------------|----------|
| ROOM NO. | DESCRIPTION | QUANTITY |

| | | |
|----------------|-------------------------------------|---|
| - | STAIRS | 3 |
| 006 | MEZZANINE | 1 |
| 101 | WC | 1 |
| 102 | PUMP CONTROL ROOM | 1 |
| EXTERIOR | | |
| - | BUILDING STREET ADDRESS | 1 |
| - | BUILDING DEDICATION PLAQUE (BRONZE) | 1 |
| Grand total: 6 | | |

| MATERIAL FINISH LEGEND | | | | | | | | | | |
|--|--|-----------------------------------|-------|--------------------------------|--|--------------|------------------------|--------------|--|-------------------------------|
| CODE | PRODUCT NAME / TYPE | LOCATION | IMAGE | SIZE (HxWxD) | COLOR | PATTERN | TEXTURE / FINISH | MANUFACTURER | NOTES | |
| 04210 : CLAY UNIT MASONRY | | | | | | | | | | |
| BRK-1 | BRICK - FACE BRICK | EXTERIOR WALLS | | 2.25x7.625x3.5 | FULL RANGE DANISH | RUNNING BOND | SAND MOLDED FACE BRICK | | STILES AND HART | |
| GR-1 | GROUT | USED WITH BRK-1 | | 3/8" JOINTS | WHITE | | | | | |
| 04222 : STRUCTURAL UNIT MASONRY | | | | | | | | | | |
| CMUJ-1 | Structural CMU | SEE DRAWINGS | | 8x16x8 NOMINAL CONCRETE BLOCKS | | | | | JANDRIS | |
| 05500 : METAL FABRICATION | | | | | | | | | | |
| GRT-1 | ALUMINUM GRATING | EXTERIOR STAIRS AND LANDING | | | | | | | | |
| 05500 : METAL FABRICATIONS | | | | | | | | | | |
| AL-1 | ALUMINUM | STAIRS, RAILINGS AND HATCHES | | | | | | | | |
| 06100 : ROUGH CARPENTRY | | | | | | | | | | |
| PLY | PLYWOOD PANELING | AT ALL WALL-MOUNTED ELEC. PANELS | | 3/4" THICK | | | | | | |
| 07130 : SELF-ADHERING SHEET WATERPROOFING | | | | | | | | | | |
| WP-1 | SHEET WATERPROOFING | SEE SPECS | | | | | | | | |
| WP-2 | LIQUID APPLIED WATERPROOFING | WET WELL, INTERIOR CONC. SURFACES | | | | | | | | |
| 07610 : SHEET METAL ROOFING | | | | | | | | | | |
| DS-1 | DOWNSPOUT TO MATCH RF-1 | | | | | | | | | |
| RF-1 | ALUMINUM GUTTER | | | | SEE DRAWINGS | | CLEAR ANODIZED | | | |
| 08800 : GLAZING | | | | | | | | | | |
| GLX-1 | 1" IGU - VISION GLASS | WINDOWS | | | SEE DOOR AND WINDOW SCHEDULE | | TRANSLUCENT | | TRANSLUCENT GLAZING, PATTERN TO BE APPROVED BY ARCHITECT | EXTERIOR PANE TO BE LAMINATED |
| 09211 : GYPSUM BOARD ASSEMBLIES | | | | | | | | | | |
| GWB-1 | GYPSUM WALL BOARD | | | | SEE DETAILS | | | | | |
| 09653 : RESILIENT WALL, BASE AND ACCESSORIES | | | | | | | | | | |
| RB-1 | RESILIENT BASE - COLOR "A" | AT ALL GWB-1 WALLS | | 4" HEIGHT | | CHARCOAL 20 | TRADITIONAL TOELESS | | JOHNSONITE | |
| 09671 : RESINOUS FLOORING | | | | | | | | | | |
| SL-1 | SEALER - CONCRETE | | | | | | | | | |
| 09900 : PAINTING AND COATING | | | | | | | | | | |
| PT-1A | PAINT - ALL GWB-1 WALLS | | | | | | SIMPLY WHITE OC-117 | | EGGSHELL BEN MOORE | |
| PT-1B | PAINT - ALL EXPOSED STRUCTURE (DRY-FALL) | | | | | | WHITE | | | |
| PT-2 | PAINT - DOORS AND WINDOWS AND FRAMES | | | | | | ARCH. TO CONFIRM | | | |
| PT-3 | PAINT - BOLLARDS | | | | | | SAFETY YELLOW | | | |
| PT-4 | LIQUID APPLIED PROTECTIVE COATING | EXT VERTICAL CONCRETE WALLS | | | WATER DISPERSED, ACRYLIC, PROTECTIVE, ANTI-CARBONATION COATING | | ARCH. TO CONFIRM | | 670W, OR EQUAL SIKA | usa.sika.com |
| 12481 : ENTRANCE FLOOR MATS | | | | | | | | | | |
| CPT-1 | CARPET WALK-OFF MAT | ENTRY DOORS | | | | CHARCOAL | BERBER - RB | | MATS INC | |

NOTE: SEE SPECIFICATIONS FOR MORE DETAILS, TYP.

| ROOM FINISH SCHEDULE | | | | | | | | | | |
|----------------------|--------|-------------------------|--------------|-------------|-------------|-------|-------|-------|----------------|-------------------|
| Level | ROOM # | ROOM NAME | FLOOR FINISH | BASE FINISH | WALL FINISH | | | | CEILING FINISH | |
| | | | | | NORTH | EAST | SOUTH | WEST | | |
| PUMP LEVEL | | | | | | | | | | |
| PUMP LEVEL | 005 | WET WELL 4 | NA | N/A | N/A | N/A | N/A | N/A | N/A | |
| MEZZANINE LEVEL | | | | | | | | | | |
| MEZZANINE LEVEL | 006 | MEZZANINE | SL-1 | N/A | N/A | N/A | N/A | N/A | N/A | |
| GROUND FLOOR | | | | | | | | | | |
| GROUND FLOOR | 101 | WC | SL-1 | RB-1 | PT-1A | PT-1A | PT-1A | PT-1A | PT-1A | |
| GROUND FLOOR | 102 | PUMP CONTROL ROOM | SL-1 | RB-1 | PT-1A | PT-1A | PT-1A | PT-1A | PT-1A | EXPOSED STRUCTURE |
| GROUND FLOOR | 103 | EXTERIOR ENTRY PLATFORM | SL-1 | N/A | N/A | N/A | N/A | N/A | N/A | |
| PUMP LEVEL | | | | | | | | | | |
| PUMP LEVEL | 001 | PUMP ROOM | SL-1 | N/A | N/A | N/A | N/A | N/A | N/A | |
| PUMP LEVEL | 002 | WET WELL 1 | WP-2 | N/A | WP-2 | WP-2 | WP-2 | WP-2 | WP-2 | |
| PUMP LEVEL | 003 | WET WELL 3 | WP-2 | N/A | WP-2 | WP-2 | WP-2 | WP-2 | WP-2 | |
| PUMP LEVEL | 004 | WET WELL 2 | WP-2 | N/A | WP-2 | WP-2 | WP-2 | WP-2 | WP-2 | |
| PUMP LEVEL | 006 | INFLUENT CHAMBER | WP-2 | N/A | WP-2 | WP-2 | WP-2 | WP-2 | WP-2 | |

PREPARED BY:



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REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

SIGNAGE, ACCESSORIES AND FINISH SCHEDULES

REVISIONS

| NO. | DESCRIPTION | DATE |
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DRAWN BY: TM

DESIGNED BY: DSK

CHECKED BY: MPS

DSK JOB No.: TPS-1795 DATE: 3/31/2022

BETA JOB No.: 5530

SCALE

3" = 1'-0"

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CONTRACT 2


SHEET NO.


A-25

GENERAL NOTES: DETAILS
 1. REFER TO DWG A-01 FOR GENERAL NOTES
 2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

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SUBCONSULTANT:

 ARCHITECTS + PLANNERS
 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

TITLE
DOOR & WINDOW DETAILS

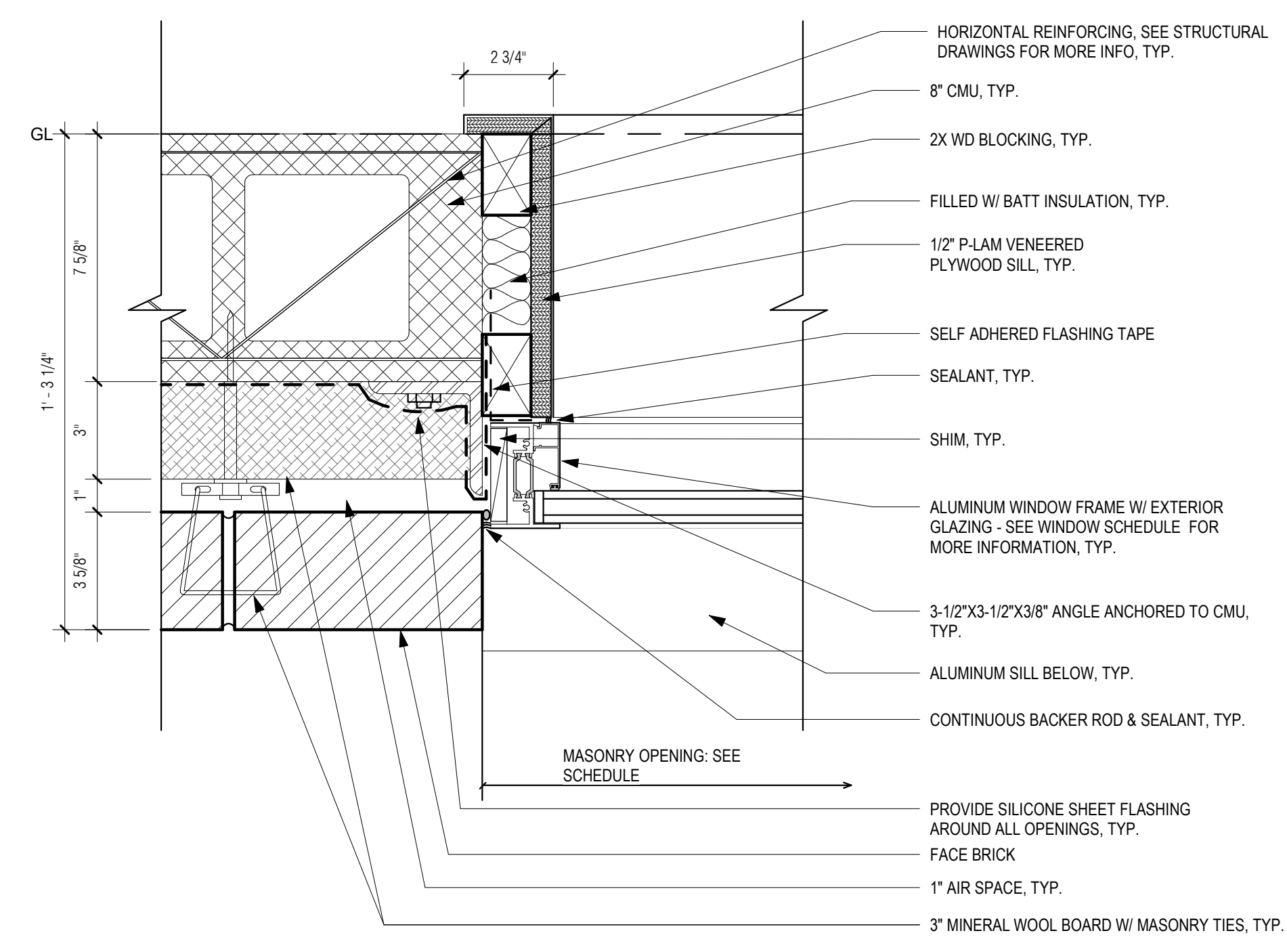
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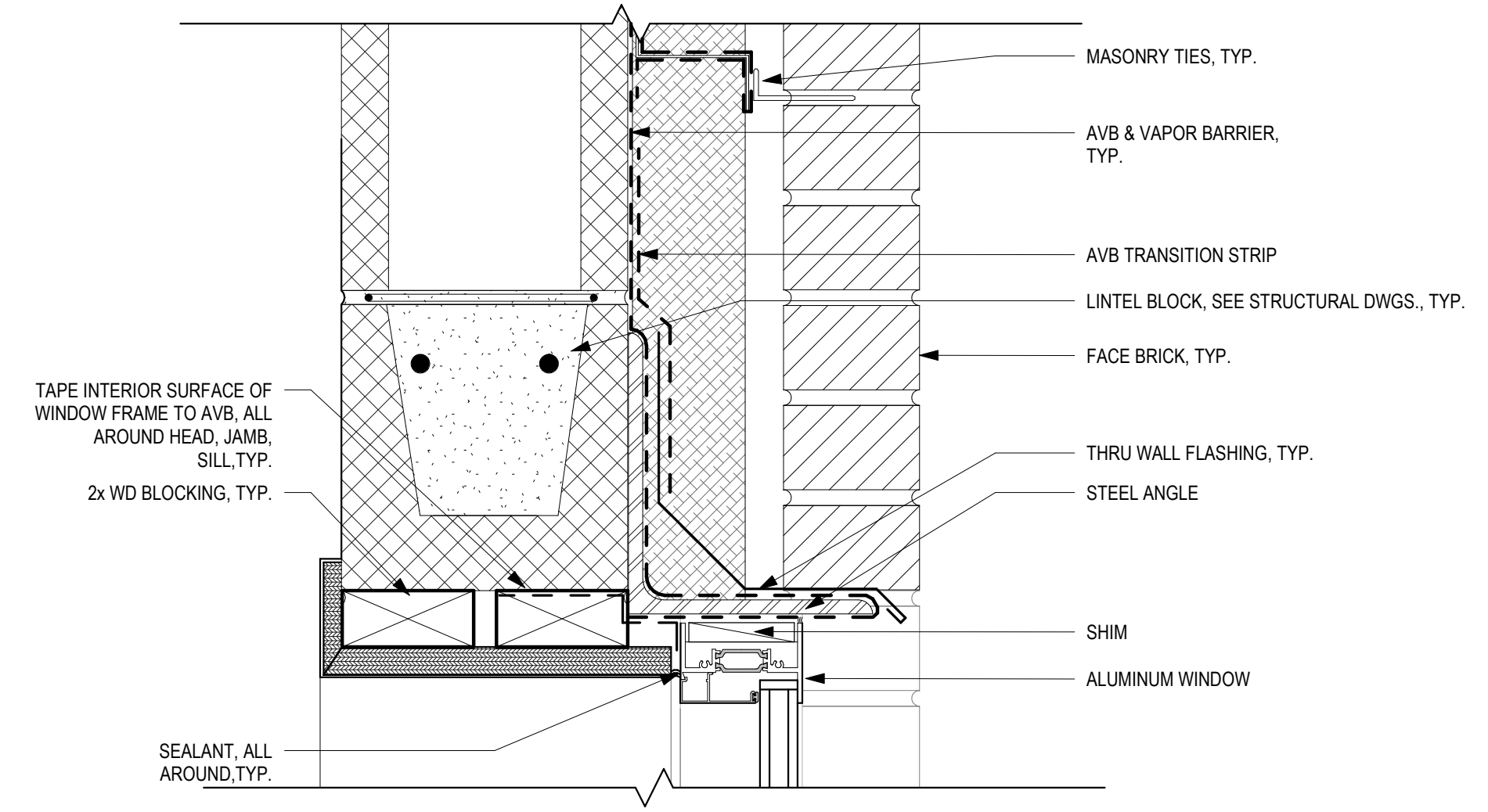
DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 3/31/2022
 BETA JOB No.: 5530

SCALE
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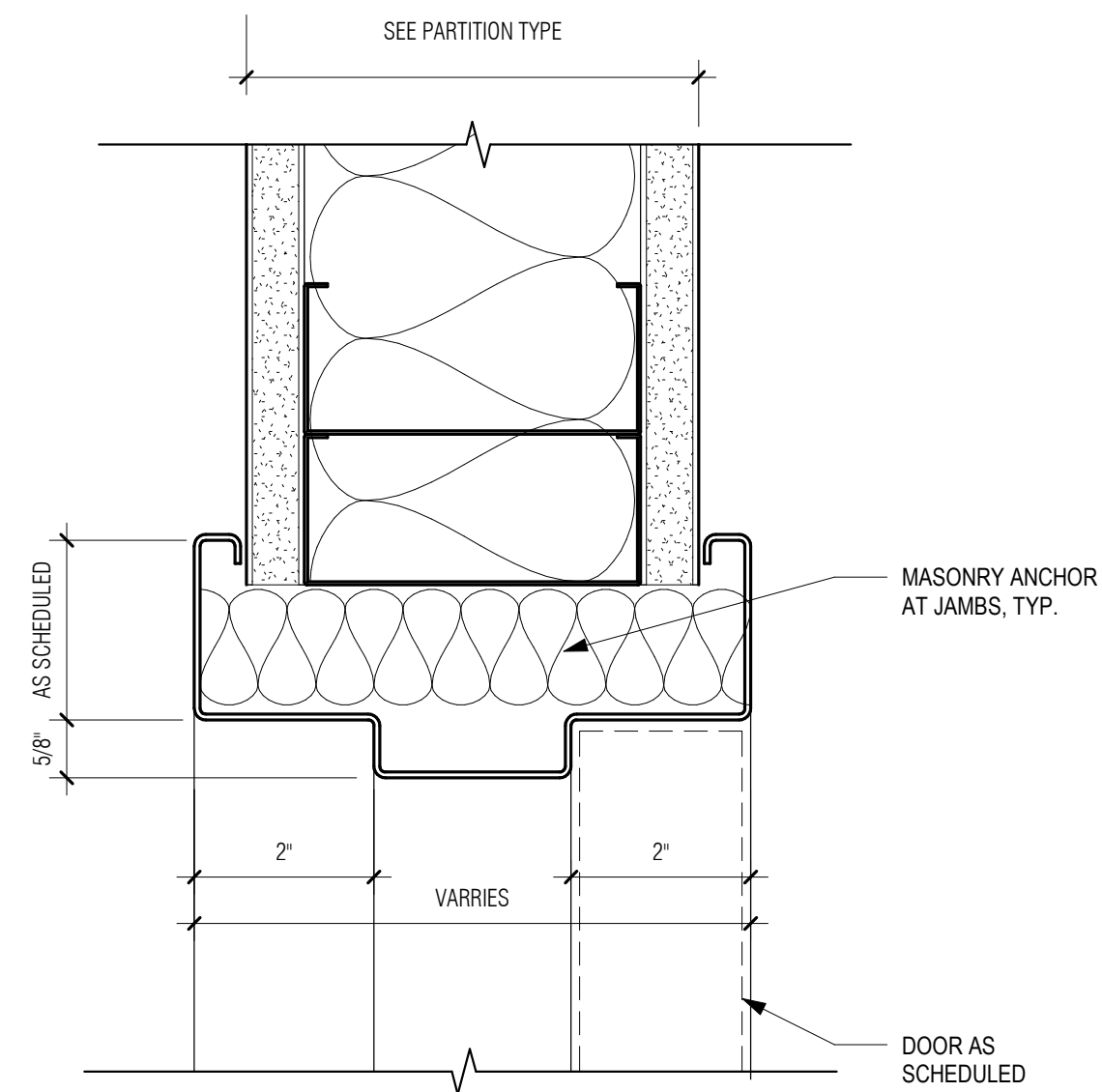
CONTRACT 2
 SHEET NO. **A-26**



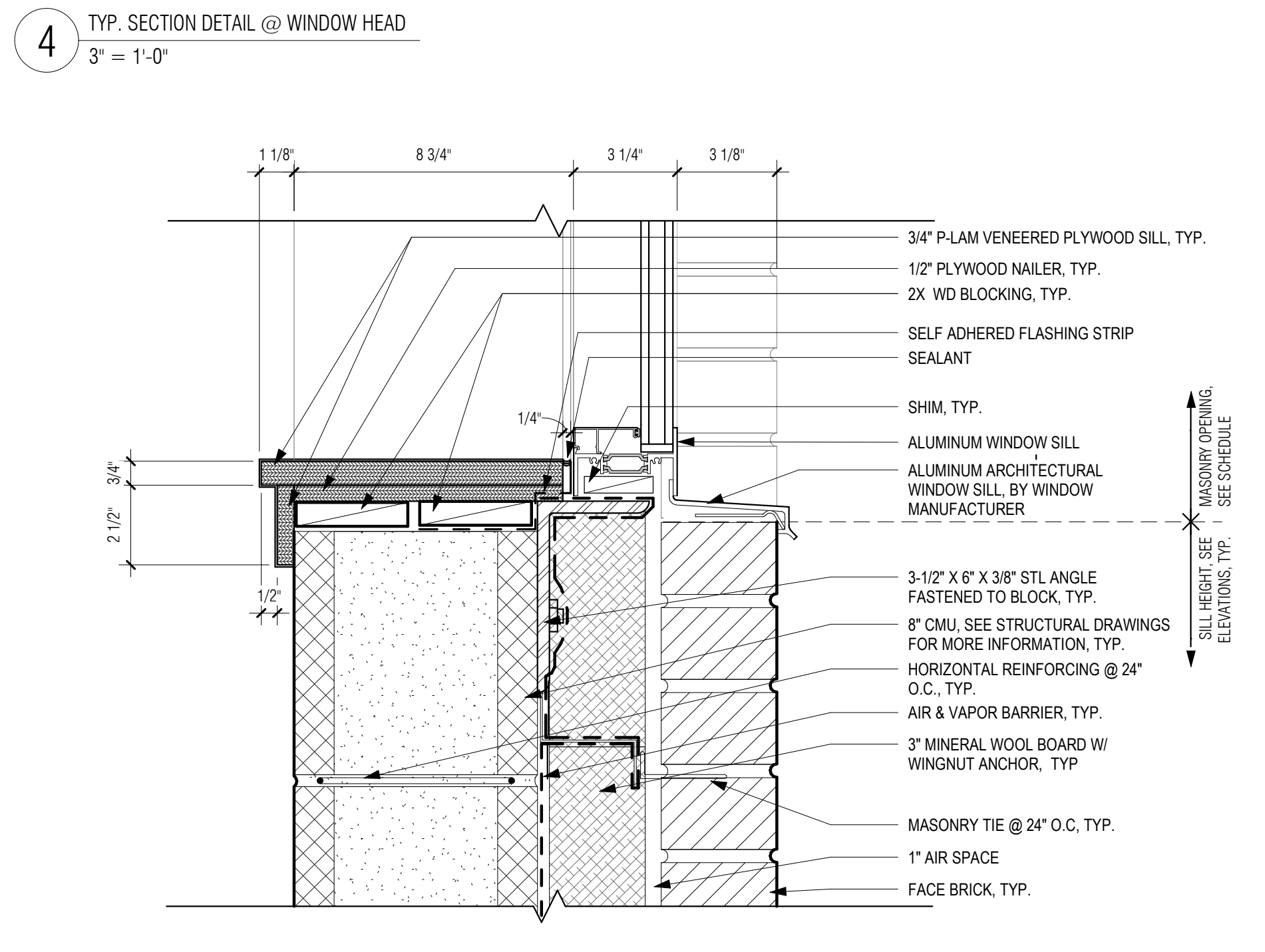
5 TYP. PLAN DETAIL @ WINDOW JAMB
 3" = 1'-0"



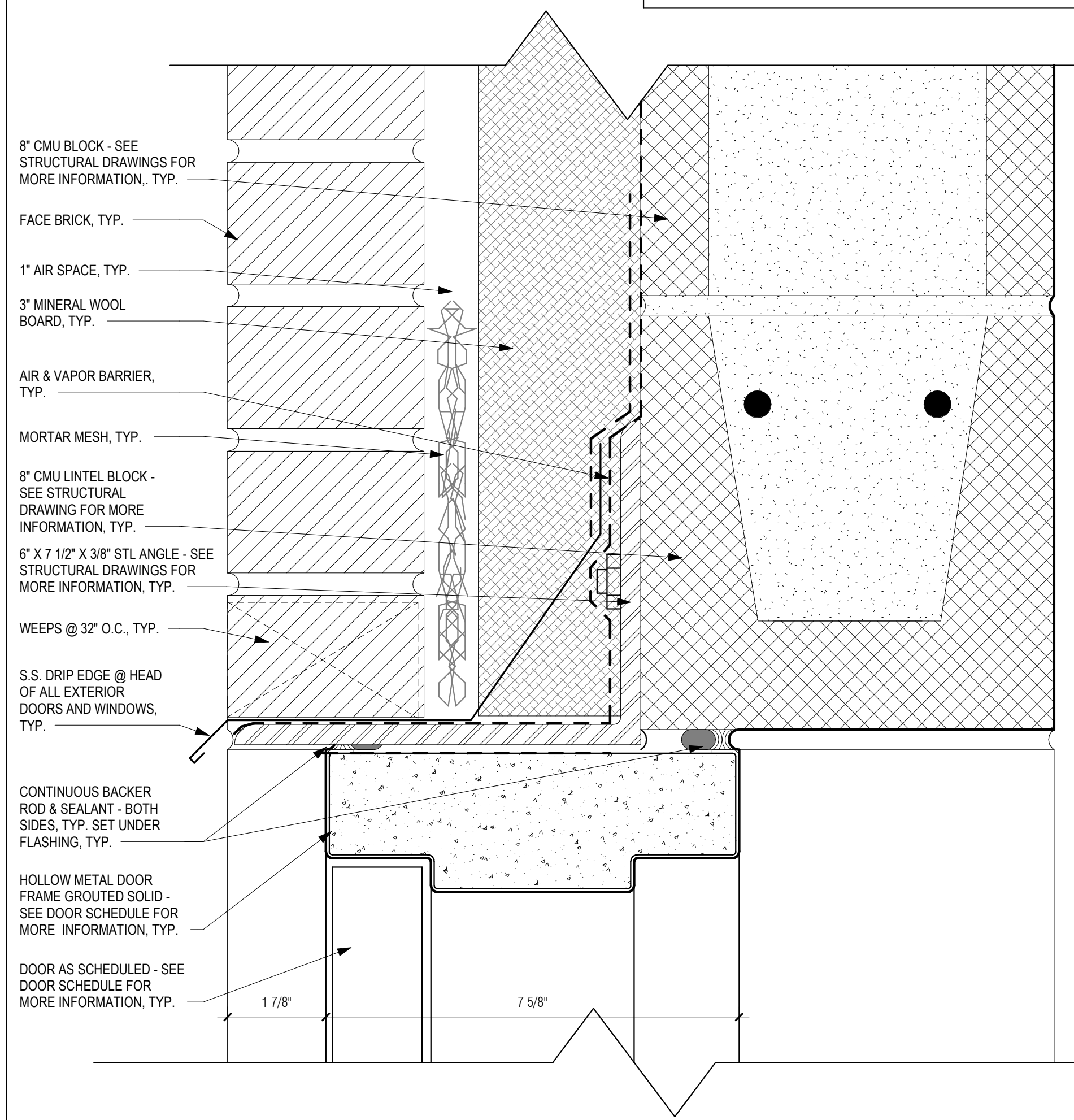
4 TYP. SECTION DETAIL @ WINDOW HEAD
 3" = 1'-0"



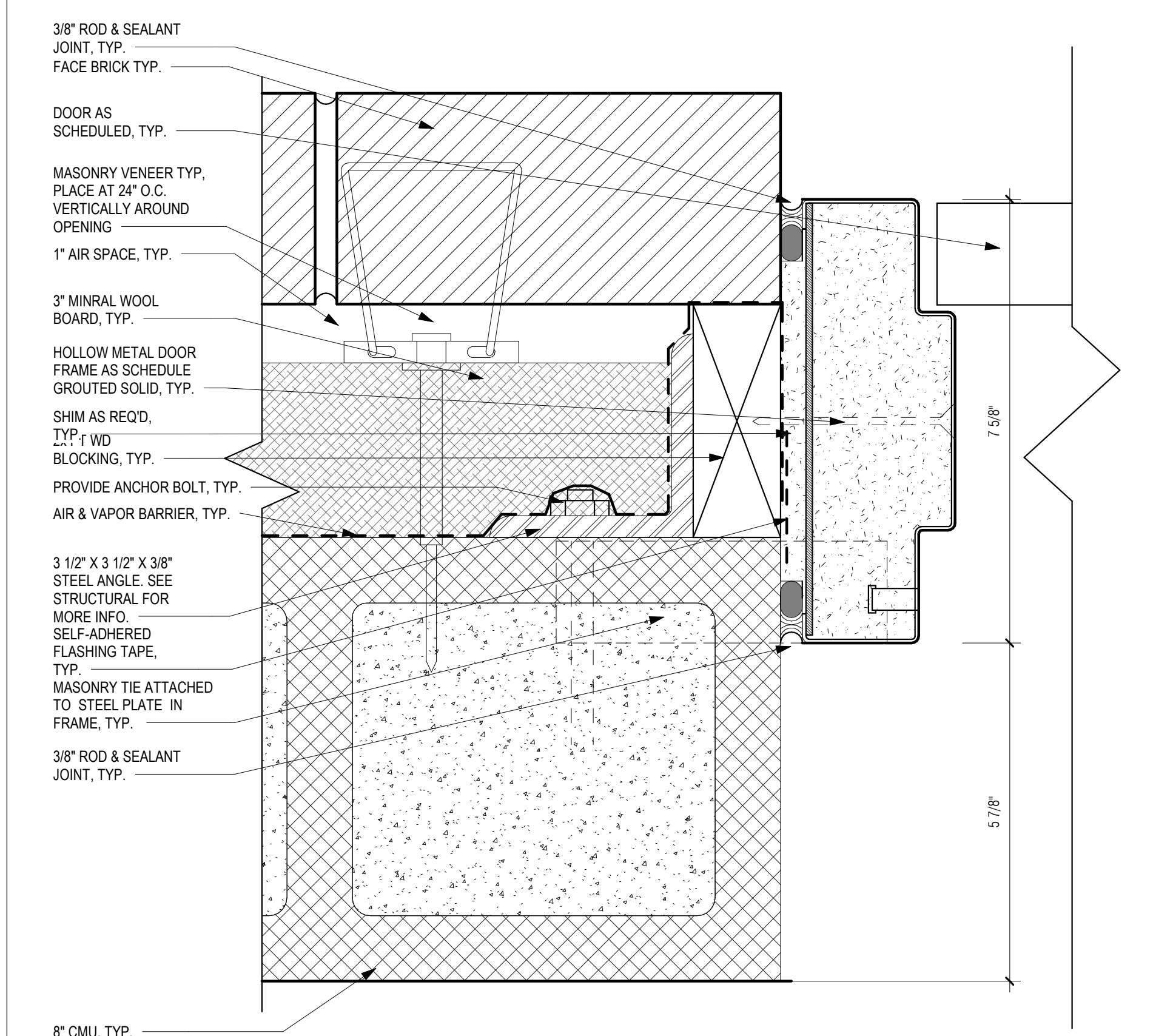
6 TYPICAL HOLLOW METAL DOOR JAMB/HEAD DETAIL AT GWB
 6" = 1'-0"



3 TYP. SECTION DETAIL @ WINDOW SILL
 3" = 1'-0"



2 TYP. EXT. HOLLOW METAL DOOR W/ CMU HEADER DETAIL - HEAD
 6" = 1'-0"



1 TYP. EXT. HOLLOW METAL DOOR W/ CMU HEADER DETAIL - JAMB
 6" = 1'-0"

GENERAL NOTES: DETAILS

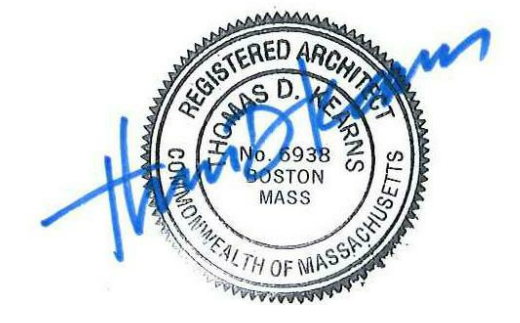
1. REFER TO DWG A-01 FOR GENERAL NOTES
2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

PREPARED BY:



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REGISTERED PROFESSIONAL



SUBCONSULTANT:

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ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

DOOR DETAILS

REVISIONS

| NO. | DESCRIPTION | DATE |
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DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 3/31/2022
BETA JOB No.: 5530

SCALE

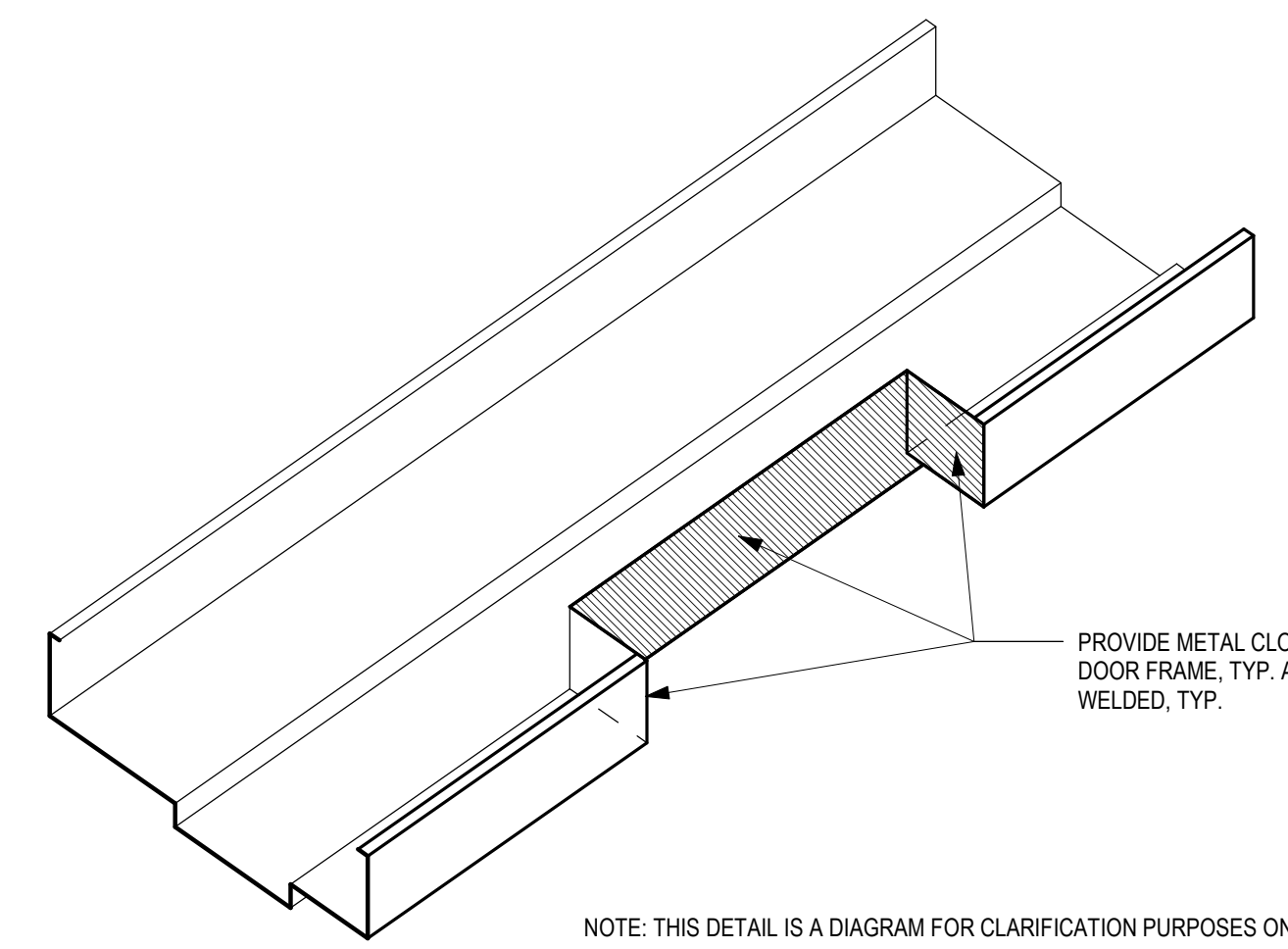
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CONTRACT 2

SHEET NO.

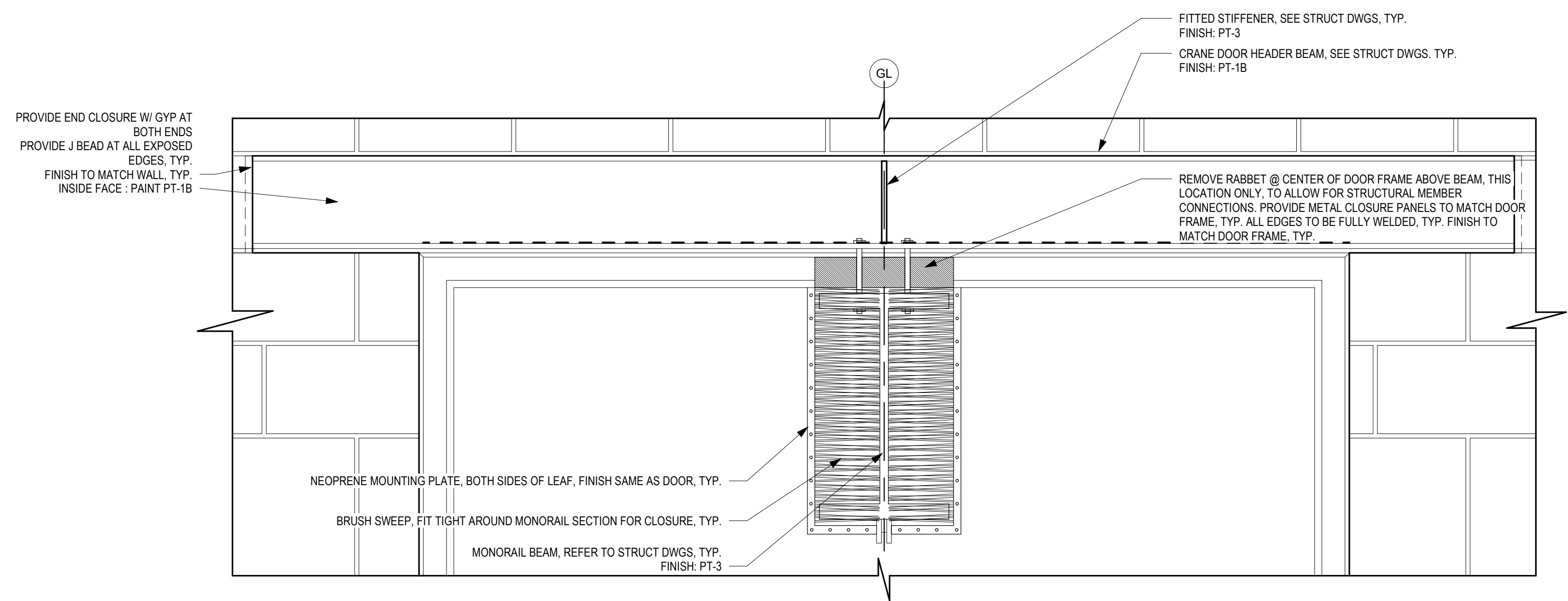
A-27



PROVIDE METAL CLOSURE PANELS, TO MATCH DOOR FRAME, TYP. ALL EDGES TO BE FULLY WELDED, TYP.

NOTE: THIS DETAIL IS A DIAGRAM FOR CLARIFICATION PURPOSES ONLY.

3 MONORAIL DOOR FRAME DETAIL
3" = 1'-0"



PROVIDE END CLOSURE, W/ GYP AT BOTH ENDS
PROVIDE J BEAD AT ALL EXPOSED EDGES, TYP.
FINISH TO MATCH WALL, TYP.
INSIDE FACE: PAINT PT-1B

FITTED STIFFENER, SEE STRUCT DWGS, TYP.
FINISH: PT-3
CRANE DOOR HEADER BEAM, SEE STRUCT DWGS, TYP.
FINISH: PT-1B

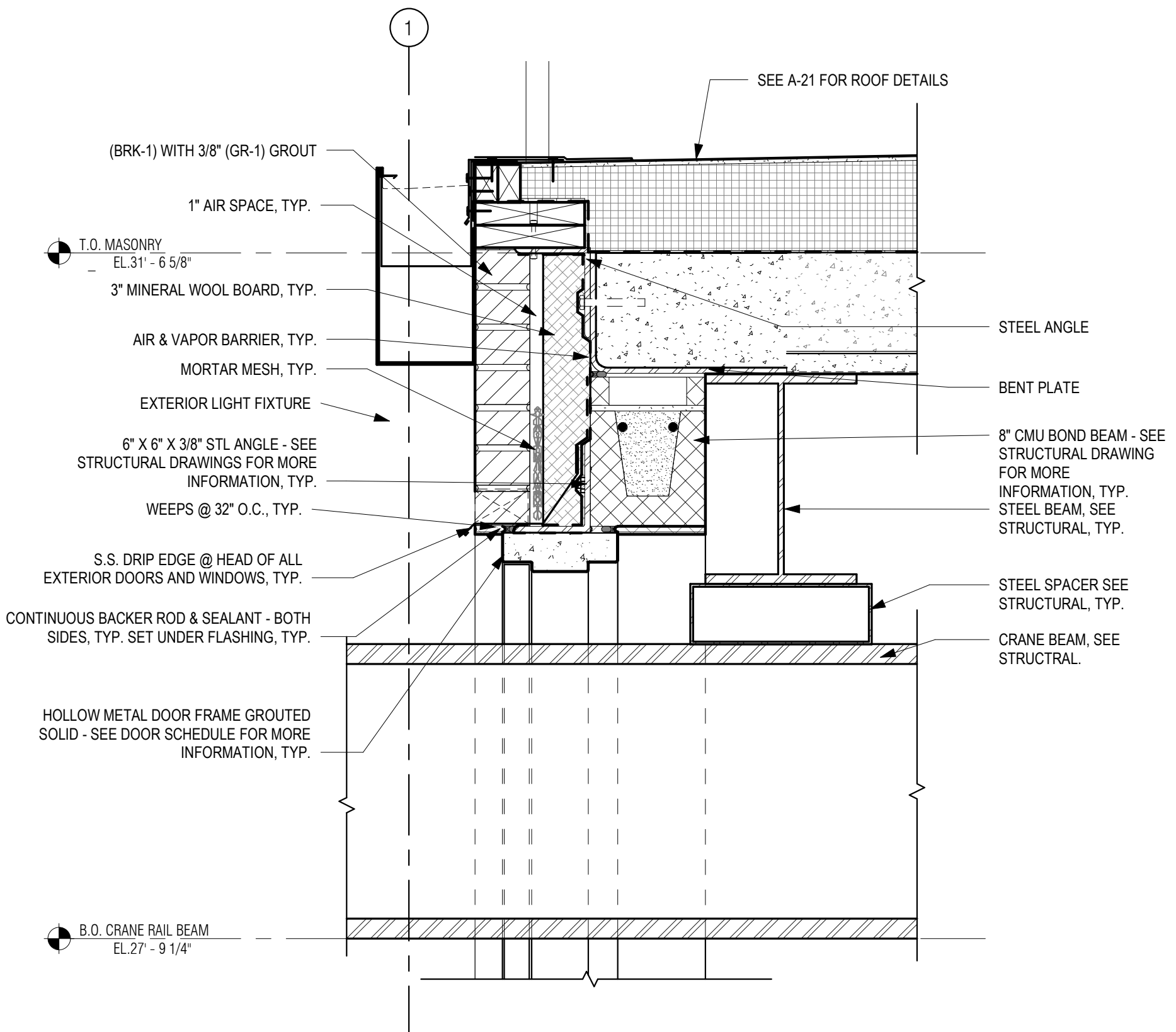
REMOVE RABBET @ CENTER OF DOOR FRAME ABOVE BEAM, THIS LOCATION ONLY, TO ALLOW FOR STRUCTURAL MEMBER CONNECTIONS. PROVIDE METAL CLOSURE PANELS TO MATCH DOOR FRAME, TYP. ALL EDGES TO BE FULLY WELDED, TYP. FINISH TO MATCH DOOR FRAME, TYP.

NEOPRENE MOUNTING PLATE, BOTH SIDES OF LEAF, FINISH SAME AS DOOR, TYP.

BRUSH SWEEP, FIT TIGHT AROUND MONORAIL SECTION FOR CLOSURE, TYP.

MONORAIL BEAM, REFER TO STRUCT DWGS, TYP.
FINISH: PT-3

2 CRANE DOOR HEADER - INTERIOR ELEVATION
1 1/2" = 1'-0"



(BRK-1) WITH 3/8" (GR-1) GROUT
1" AIR SPACE, TYP.
T.O. MASONRY
EL. 31'-6 5/8"
3" MINERAL WOOL BOARD, TYP.
AIR & VAPOR BARRIER, TYP.
MORTAR MESH, TYP.
EXTERIOR LIGHT FIXTURE
6" X 6" X 3/8" STL ANGLE - SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYP.
WEEPS @ 32" O.C., TYP.
S.S. DRIP EDGE @ HEAD OF ALL EXTERIOR DOORS AND WINDOWS, TYP.
CONTINUOUS BACKER ROD & SEALANT - BOTH SIDES, TYP. SET UNDER FLASHING, TYP.
HOLLOW METAL DOOR FRAME GROUTED SOLID - SEE DOOR SCHEDULE FOR MORE INFORMATION, TYP.

SEE A-21 FOR ROOF DETAILS
STEEL ANGLE
BENT PLATE
8" CMU BOND BEAM - SEE STRUCTURAL DRAWING FOR MORE INFORMATION, TYP.
STEEL BEAM, SEE STRUCTURAL, TYP.
STEEL SPACER SEE STRUCTURAL, TYP.
CRANE BEAM, SEE STRUCTURAL

1 TOP OF WALL AT HOIST BEAM
1 1/2" = 1'-0"

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\600-NPS-TITLEBLOCKS\KOC_Arch D 24x36 Vertical Title - BETA

PREPARED BY:



www.BETA-Inc.com
PLOT DATE: 8/29/2021 4:00:23 PM

REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT
PUMP
STATION
IMPROVEMENTS

TAUNTON, MA

TITLE

RESTROOM DETAILS
AND PARTITION
TYPES

REVISIONS

| NO. | DESCRIPTION | DATE |
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SCALE

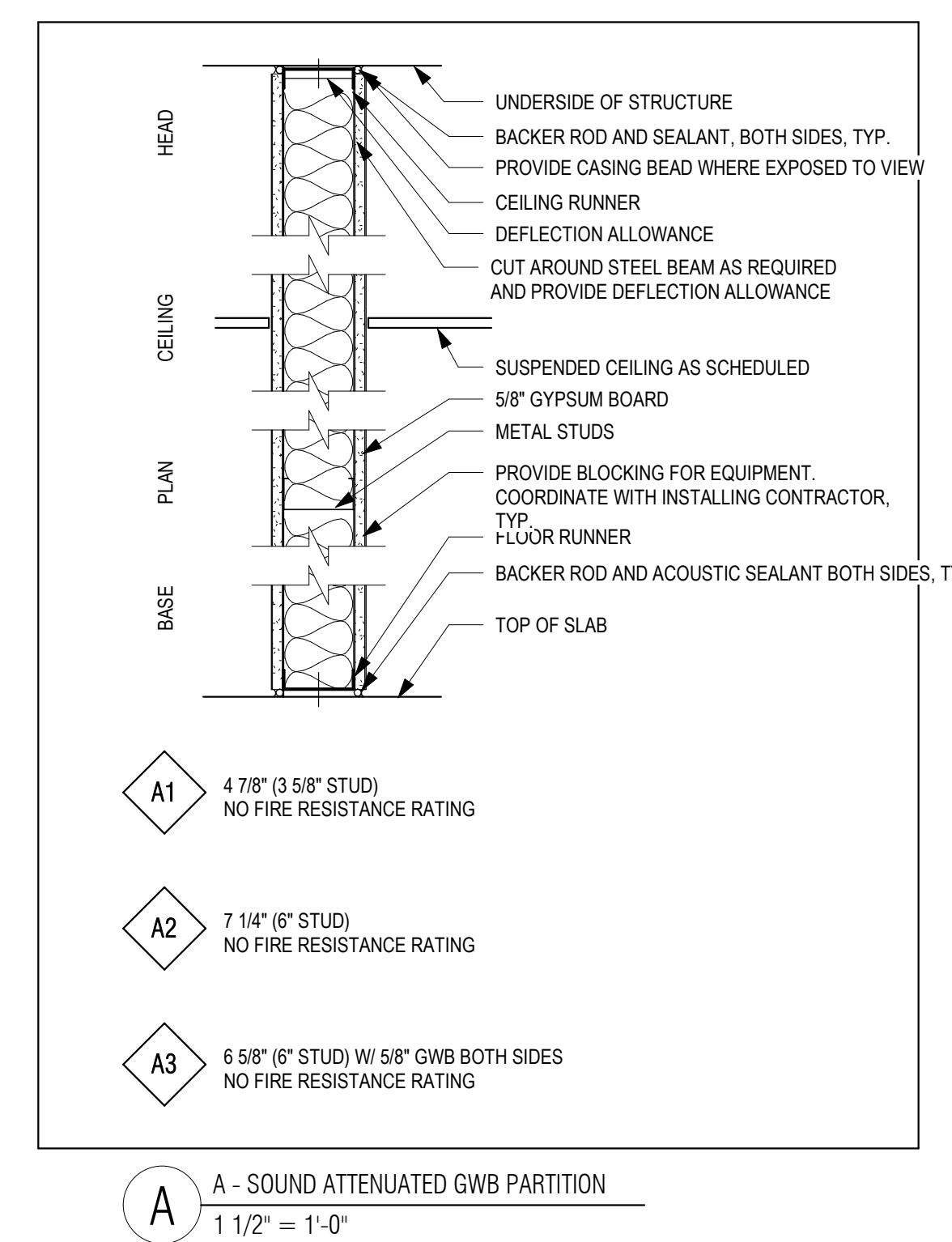
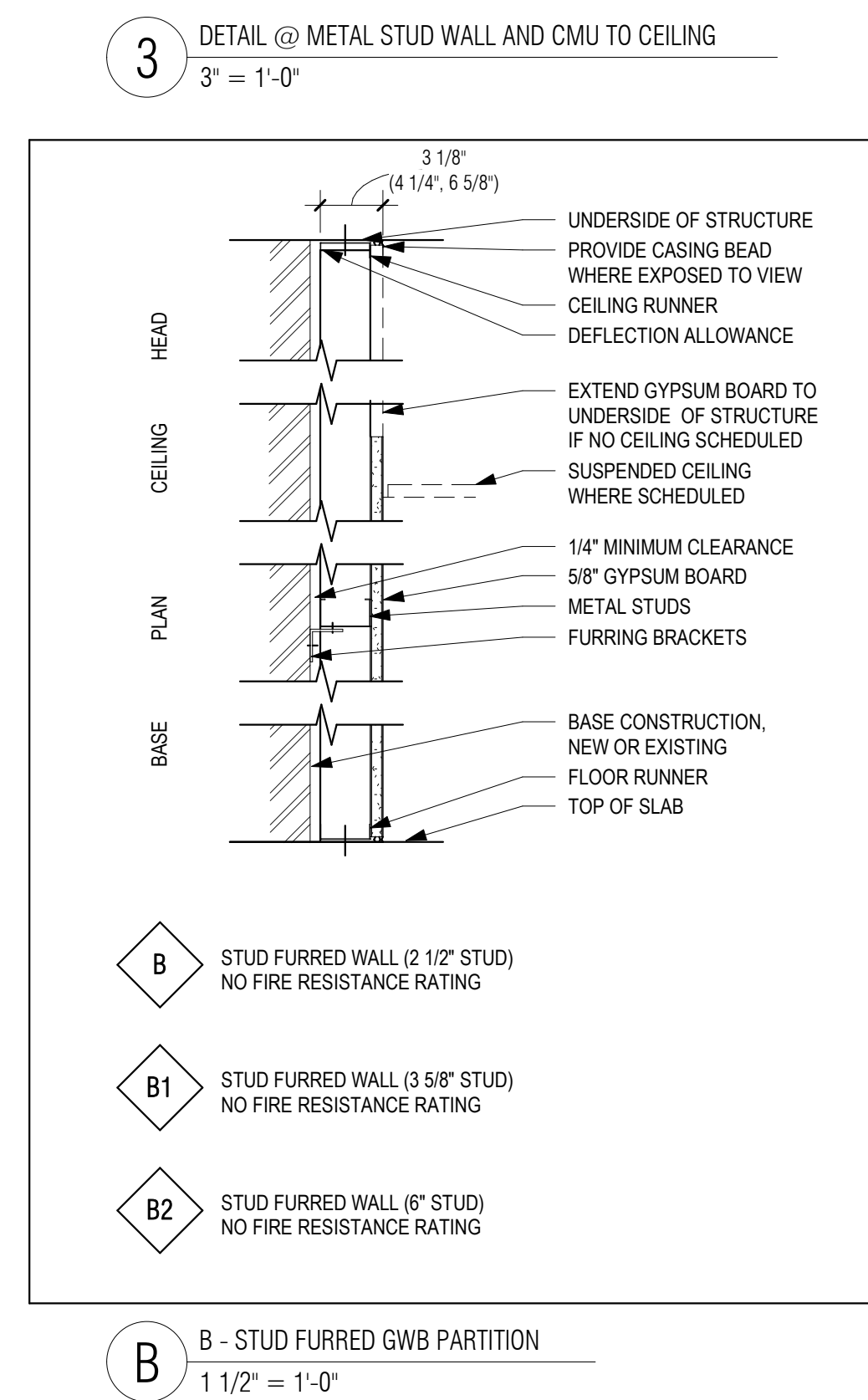
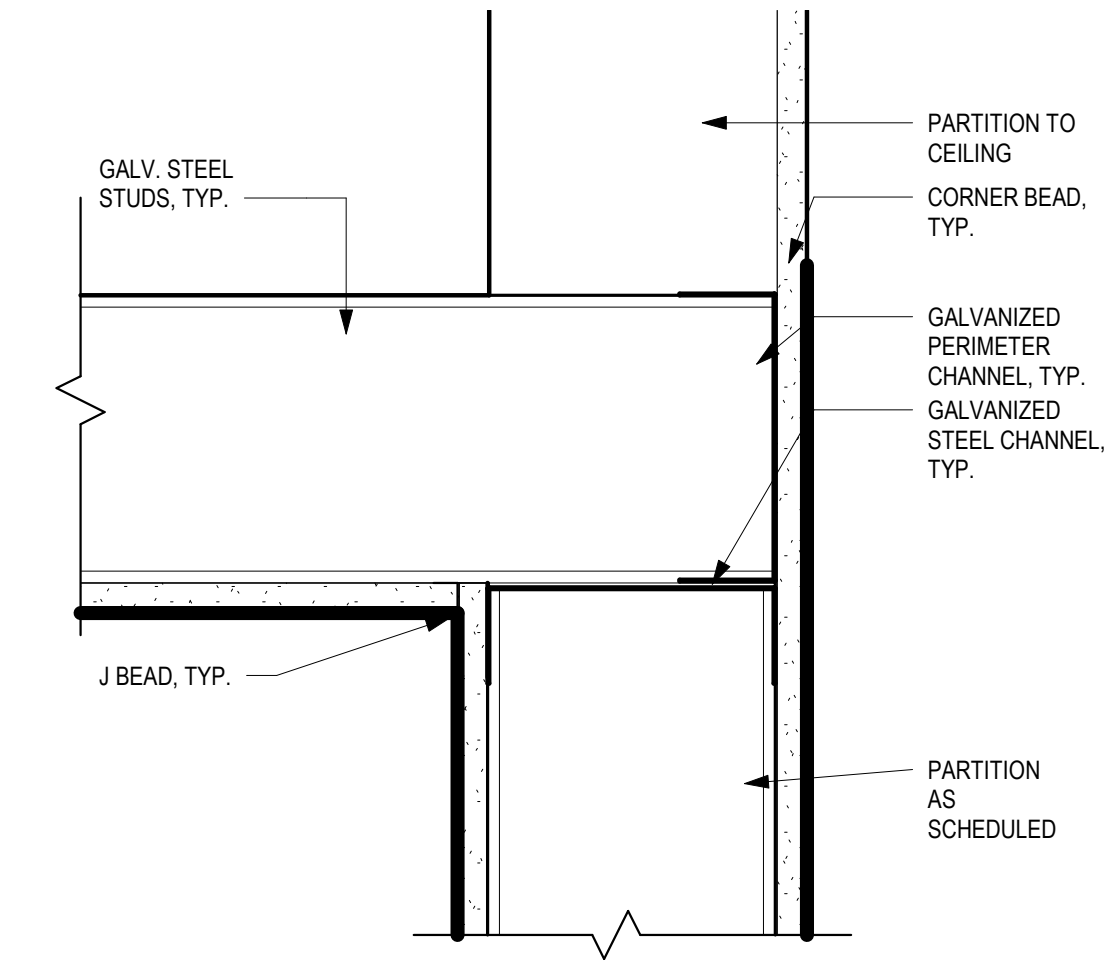
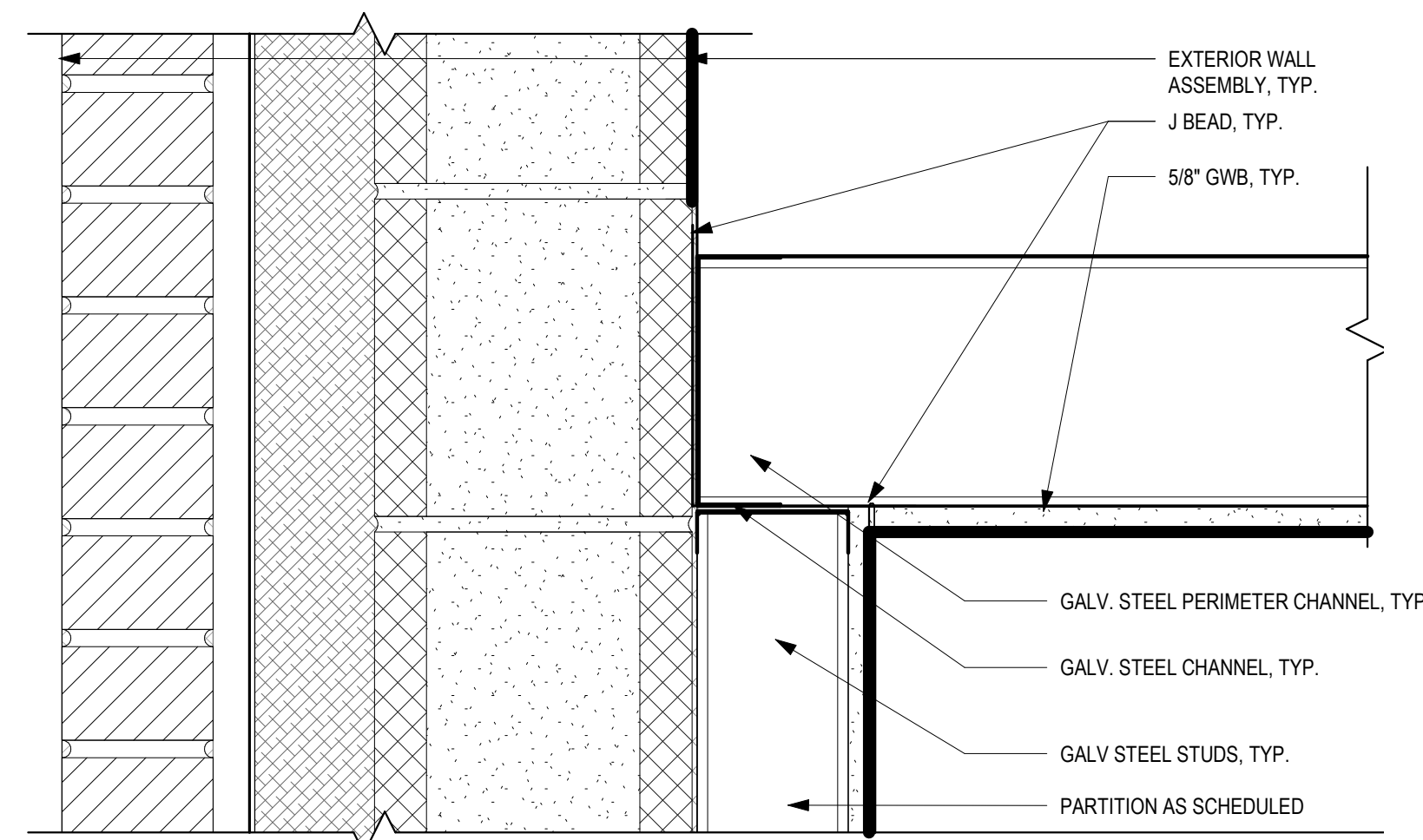
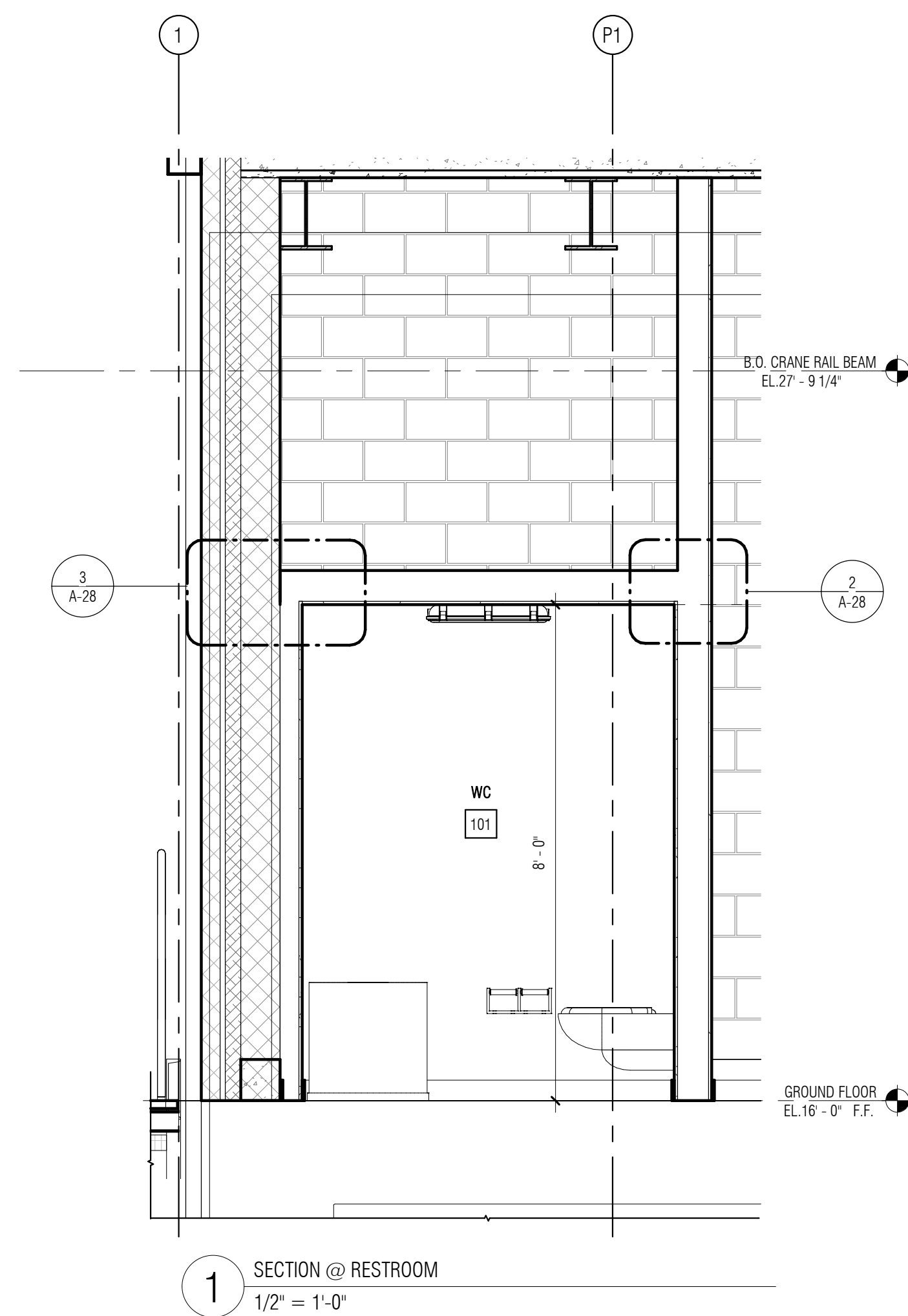
As indicated

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CONTRACT 2

SHEET NO.

A-28



GENERAL STRUCTURAL NOTES:

- STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION AND ASCE 7-10 AND ASCE 24 FOR FLOOD HAZARD AREAS.
- SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS AND MUST BE USED IN CONJUNCTION WITH THE DRAWINGS.
- VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH ANY PHASE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING DIG SAFE PRIOR TO THE START OF ANY EXCAVATION OR SITE WORK.
- DO NOT SCALE FROM THESE DRAWINGS. REFER TO LABELED DIMENSIONS ONLY.
- DETAILS LABELED "TYPICAL DETAILS" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEER OF CONFLICTS REGARDING APPLICABILITY OF TYPICAL DETAILS.
- COORDINATE THE WORK OF THESE DRAWINGS WITH OTHER TRADES. DIMENSIONS AND QUANTITIES OF RELATED WORK ARE PROVIDED FOR GENERAL GUIDANCE AND SHALL BE CONFIRMED.
- DO NOT LOAD THE SLAB ON GRADE OR SUPPORTED SLAB WITH ERECTION CRANES OR ERECTION EQUIPMENT. THE SLABS HAVE NOT BEEN DESIGNED FOR CRANE LOADS AND WILL REQUIRE AN INCREASE IN THICKNESS AND/OR REINFORCEMENT. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL ON PROPOSED CRANE SUPPORT PLAN FOR SLABS PRIOR TO COMMENCING WORK.
- DO NOT STORE OR STACK CONSTRUCTION MATERIALS ON POURED OR ERECTED FLOORS/ROOFS IN EXCESS OF 80 PERCENT OF LIVE LOAD. GENERAL CONTRACTOR WILL ENSURE THAT ALL SUB-CONTRACTORS ARE INFORMED OF LOADING RESTRICTIONS. AVOID IMPACT WHEN PLACING MATERIALS ON POURED OR ERECTED FLOORS OR ROOFS.
- THE CONTRACTOR SHALL SHORE, BRACE, SHEETPILE, OR OTHERWISE SUPPORT THE STRUCTURE AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY AT ALL TIMES. SHORING DESIGN SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED BY THE CONTRACTOR TO SAFELY SUPPORT ALL DEAD LOADS CARRIED BY THE STRUCTURAL WORK BEING SHORED, AND ANY CONSTRUCTION LIVE LOADS.
- NEW STRUCTURAL SYSTEMS SHALL BE COMPLETELY INSTALLED AND CAPABLE OF SUPPORTING DESIGN LOADS BEFORE SHORES ARE REMOVED. SHORES SHALL BE RELEASED GRADUALLY.
- THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF 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 WALLS AND OTHER TEMPORARY SUPPORTS AS REQUIRED. COMPLY WITH APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
- BACKFILLING AND COMPACTING ADJACENT TO THE STRUCTURE WALLS SHALL NOT BE PERMITTED UNTIL ALL THE CONCRETE HAS REACHED THE FULL STRUCTURAL CAPACITY.
- USE OF EXCAVATED MATERIAL SHALL NOT BE PERMITTED FOR USE OF BACKFILLING BETWEEN EXCAVATION SUPPORT AND THE STRUCTURE. BACKFILL SHALL CONSIST OF A CLEAN GRAVEL (SEE SPECIFICATIONS).

DESIGN LOADS:

| | |
|--------------------------|---------------------|
| LIVE LOADS: | |
| ROOF | 20 P.S.F. |
| SLAB (GROUND LEVEL) | 250 P.S.F. |
| SLAB (MEZZANINE LEVEL) | 250 P.S.F. |
| SNOW LOADS: | |
| GROUND SNOW LOAD (Pg) | 30.0 P.S.F. |
| FLAT ROOF SNOW LOAD (Pf) | 23.1 P.S.F. |
| WIND LOADS: | |
| BASIC WIND SPEED | 140 MPH |
| RISK CATEGORY | CATEGORY III |
| WIND EXPOSURE CATEGORY | CATEGORY III |
| SEISMIC: | |
| IMPORTANCE FACTOR (Ie) | 1.25 (CATEGORY III) |
| DESIGN FACTOR Ss | 0.182 |
| DESIGN FACTOR S1 | 0.062 |
| SITE CLASSIFICATION | D |
| SPECTRAL RESPONSE Sds | 0.194 |
| SPECTRAL RESPONSE SD1 | 0.099 |
| SEISMIC DESIGN CATEGORY | B |

FOUNDATIONS:

- ALL FOOTINGS AND BASE SLABS SHALL BEAR ON NATURALLY DEPOSITED SOILS FOR AN ALLOWABLE BEARING PRESSURE OF 4000 PSF IN ACCORDANCE WITH THE GEOTECHNICAL REPORT DATED AUGUST 2017 BY PAUL B. ALDINGER & ASSOCIATES, INC.
- SLABS ON GRADE SHALL BE PLACED ON 12 INCHES OF COMPACTED STRUCTURAL FILL.
- SEE THE SPECIFICATIONS FOR ALL RELATED CONSTRUCTION REQUIREMENTS.
- ALL UNSUITABLE MATERIAL WITHIN FOUNDATIONS AND SLABS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
- 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 PERFORMED. SUPPLEMENTAL INVESTIGATIONS SHALL BE PERFORMED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE WORK.
- FOUNDATIONS MAY BE ALTERED TO SUIT EXISTING CONDITIONS AS DIRECTED BY THE ENGINEER.
- PROVIDE TEMPORARY OR PERMANENT SUPPORTS AS REQUIRED TO PROTECT EXISTING AND NEWLY COMPLETED STRUCTURES AND UTILITIES.
- 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.
- ALL CONCRETE SURFACES SHALL BE FORMED. DO NOT FORM AGAINST EXCAVATIONS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- NO FOUNDATION CONCRETE SHALL BE PLACED ON FROZEN SUB-GRADE MATERIAL.
- PLACE BACKFILL BEHIND WALLS ON BOTH SIDES SIMULTANEOUSLY.

CONCRETE:

- CONCRETE WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 350) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
- UNLESS NOTED OTHERWISE, CONCRETE SHALL BE AS FOLLOWS:

| | | |
|---|-----------------------------|----------------------------|
| | | MAX. WATER CEMENT RATIO |
| ROOF SLAB & COLUMNS: | 5000 P.S.I. (NORMAL WEIGHT) | 0.40 |
| HOUSEKEEPING: | 5000 P.S.I. (NORMAL WEIGHT) | 0.40 |
| SLAB-ON-GRADE: | 4000 P.S.I. (NORMAL WEIGHT) | 0.45 |
| SUPPORT WALLS & GRATING SUPPORT COLUMNS: | 4000 P.S.I. (NORMAL WEIGHT) | 0.45 |
- CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED.
- PROVIDE VAPOR BARRIER UNDER INTERIOR SLABS CAST ON GRADE.
- CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS ARE MANDATORY.
- SIZE OF CONCRETE PLACEMENTS, UNLESS NOTED OTHERWISE, SHALL CONFORM TO ACI GUIDELINES AND RECOMMENDATIONS.

REINFORCEMENT:

- 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).
- STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- PROVIDE SUPPLEMENTAL BARS AND ACCESSORIES AS REQUIRED TO HOLD REINFORCEMENT SECURELY IN POSITION.
- MINIMUM CONCRETE PROTECTIVE COVER, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

| | |
|--|-----------------------|
| FOOTINGS & BASE SLAB - BOTTOMS: | 3 INCHES |
| FOOTINGS & BASE SLAB - SIDES AND TOPS: | 2 INCHES |
| WALLS: | 2 INCHES |
| SLABS ON GRADE: | 1 INCH TOP/1½" BOTTOM |
- ALL CONTINUOUS REINFORCEMENT SHALL BE EXTENDED AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS.
- LAPS SHALL BE CLASS B TENSION LAP SPLICES, UNLESS NOTED OTHERWISE.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
- COLUMN DOWELS SHALL BE SET WITH A TEMPLATE AND POSITIONED SO AS TO BE ENCLOSED BY THE COLUMN TIES.
- WELDED WIRE FABRIC SHALL LAP 8" OR 1-1/2 SPACES, WHICHEVER IS LARGER, AND SHALL BE WIRED TOGETHER.

STRUCTURAL STEEL:

- WORK SHALL CONFORM TO SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AND THE STRUCTURAL WELDING CODE.
- STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH "DETAILING FOR STEEL CONSTRUCTION" (AISC) AND, WHERE REQUIRED, DESIGNED IN ACCORDANCE WITH THE CITED REFERENCES.
- STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING:

| | |
|-----------------------------|-------------------------------------|
| UNLESS NOTED OTHERWISE: | ASTM A992 GRADE 50 (FY = 50 K.S.I.) |
| CHANNELS, ANGLES, PLATES: | ASTM A36 (FY = 36 K.S.I.) |
| HOLLOW STRUCTURAL SECTIONS: | ASTM A500 GRADE B (FY = 40 K.S.I.) |
| ANCHOR BOLTS: | ASTM F1554 |
| HIGH STRENGTH BOLTS: | ASTM A325 |
- BOLTED CONNECTIONS SHALL BE MADE WITH A325-N HIGH STRENGTH BOLTS, DIAMETER AS SHOWN IN RESPECTIVE DETAILS.
- WELDED CONNECTIONS SHALL BE MADE BY APPROVED CERTIFIED WELDERS USING FILLER METAL CONFORMING TO E70XX.
- PROVIDE STIFFENERS WHERE SHOWN ON DRAWINGS.
- PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN POSITION. SUCH TEMPORARY BRACING AND SUPPORTS SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND CONCRETE FOR FLOOR SLABS HAS ATTAINED 75% OF SPECIFIED CONCRETE STRENGTH.
- FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS OF STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL.
- STRUCTURAL STEEL ENCASED IN MASONRY OR CONCRETE SHALL BE COVERED WITH MASTIC.
- STRUCTURAL STEEL MEMBERS AND CONNECTIONS EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED.

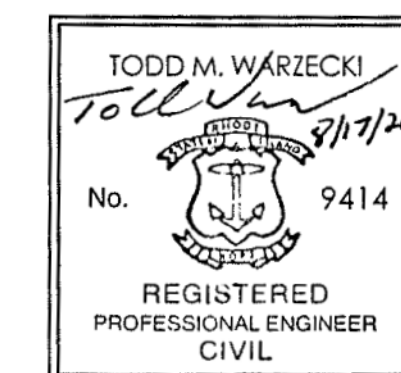
PREPARED BY



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REGISTERED PROFESSIONAL

SUBCONSULTANT



PROJECT

Main Lift
Pump Station

Taunton, MA

TITLE

STRUCTURAL NOTES
(1 OF 2)

| NO. | REVISIONS | DATE |
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| DRAWN BY: | BWN |
| DESIGNED BY: | TMW |
| CHECKED BY: | CWJ |
| ISSUE DATE: | 3/31/2022 |
| BETA JOB NO.: | 5530 |

SCALE

NONE

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SHEET NO.

S-1

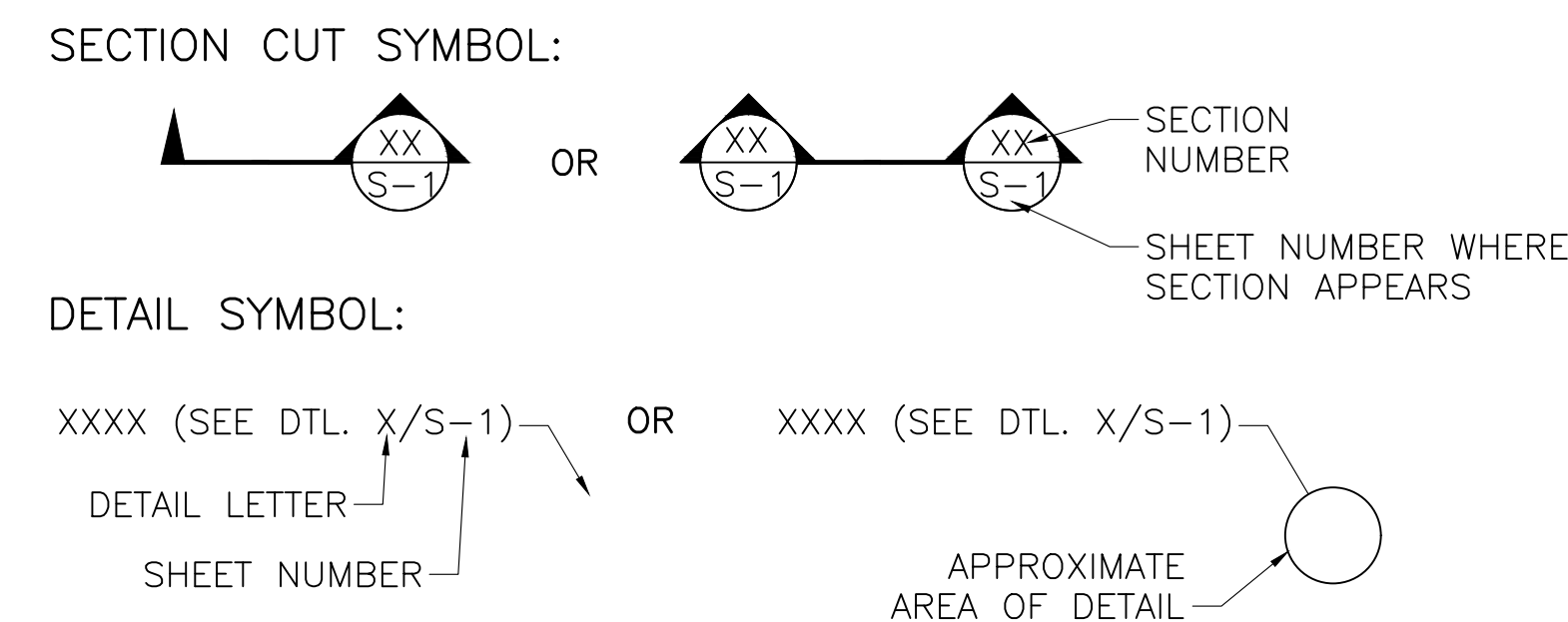
SUBMITTALS, TESTING, AND INSPECTIONS:

- SUBMITTALS AND TESTING SHALL BE AS REQUIRED BY THE MASSACHUSETTS STATE BUILDING CODE AND THESE FOLLOWING REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE FOR AN INDEPENDENT TESTING AGENCY TO PERFORM REQUIRED TESTING.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE TESTING AGENCY AND THE ENGINEERS OF RECORD ACCORDINGLY.
- NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO FOUNDATION EXCAVATION.
- NOTIFY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FIRST CONCRETE PLACEMENT.
- 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
- TESTS/INSPECTIONS INCLUDES BUT NOT LIMITED TO:
EARTHWORK
CONCRETE STRENGTH
REINFORCING STEEL INSTALLATION
CONCRETE PLACEMENT AND CURING
STEEL BOLTING
MASONRY MATERIAL INSTALLATION
- 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.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN ADVANCE, BEFORE CONCEALING ANY WORK THAT WILL REQUIRE OBSERVATION NEEDED TO PREPARE THE FINAL AFFIDAVIT.

LIST OF ABBREVIATIONS:

| | | | |
|---------|------------------------|--------|--------------------------|
| ARCH. | - ARCHITECTURAL | (LLH) | - LONG LEG HORIZONTAL |
| ADD'L | - ADDITIONAL | (LLV) | - LONG LEG VERTICAL |
| APPROX. | - APPROXIMATE | LOC.'S | - LOCATIONS |
| BRG. | - BEARING | MAX. | - MAXIMUM |
| B.O. | - BOTTOM OF | MIN. | - MINIMUM |
| C-C | - CENTER TO CENTER | MISC. | - MISCELLANEOUS |
| CL | - CENTERLINE | N.F. | - NEAR FACE |
| C.I.P. | - CAST IN PLACE | N.S. | - NEAR SIDE |
| CONC. | - CONCRETE | N.T.S. | - NOT TO SCALE |
| CONST. | - CONSTRUCTION | NO. | - NUMBER |
| CONT. | - CONTINUOUS | O.C. | - ON CENTER |
| C.Y. | - CUBIC YARD | O.D. | - OUTSIDE DIAMETER |
| d | - DEEP | O.F. | - OUTSIDE FACE |
| DET. | - DETAIL | PERIM. | - PERIMETER |
| DTL. | - DETAIL | P | - PLATE |
| DIA. | - DIAMETER | PVC | - POLYVINYL CHLORIDE |
| DWG. | - DRAWING | P.S.F. | - POUNDS PER SQUARE FOOT |
| EA. | - EACH | P.S.I. | - POUNDS PER SQUARE INCH |
| EL. | - ELEVATION | RAD. | - RADIUS |
| ELEV. | - ELEVATION | REINF. | - REINFORCING |
| EMBED. | - EMBEDMENT | REQ'D | - REQUIRED |
| E.F. | - EACH FACE | SECT. | - SECTION |
| E.S. | - EACH SIDE | SCH. | - SCHEDULE |
| E.W. | - EACH WAY | S.F. | - SQUARE FOOT |
| EXIST. | - EXISTING | SHT. | - SHEET |
| EXP. | - EXPANSION | SIM. | - SIMILAR |
| FIN. | - FINISH | SP. | - SPACES |
| F.O. | - FACE OF | S.S. | - STAINLESS STEEL |
| FT. | - FEET/FOOT | STD. | - STANDARD |
| FTG. | - FOOTING | STL. | - STEEL |
| GA. | - GAUGE | SYM. | - SYMMETRIC |
| GALV. | - GALVANIZED | t | - THICK |
| GC | - GENERAL CONTRACTOR | T&B | - TOP AND BOTTOM |
| h | - HIGH | T.O. | - TOP OF |
| HORIZ. | - HORIZONTAL | T.O.S. | - TOP OF SLAB |
| H.A. | - HIGH POINT | T.O.W. | - TOP OF WALL |
| I.F. | - INSIDE FACE | TYP. | - TYPICAL |
| IN. | - INCH | U.N.O. | - UNLESS NOTED OTHERWISE |
| I.D. | - INSIDE DIAMETER | VERT. | - VERTICAL |
| INFO. | - INFORMATION | W.W.F. | - WELDED WIRE FABRIC |
| INV. | - INVERT | w | - WIDE |
| JT. | - JOINT | w/ | - WITH |
| K.S.I. | - KIPS PER SQUARE INCH | Ø | - DIAMETER |
| LG. | - LONG | | |

SECTION AND DETAIL DESIGNATIONS:



EXISTING HATCH SCHEDULE:

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

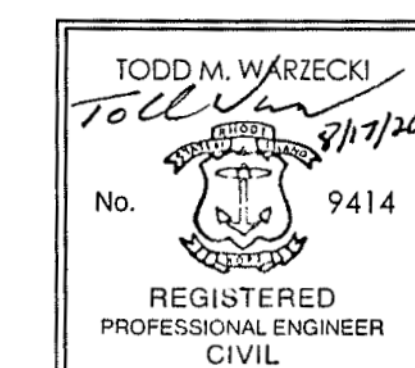
| PENETRATION NUMBER | PENETRATION TYPE | PENETRATION LOCATION | CENTERLINE ELEVATION | PIPE DESCRIPTION | PIPE MATERIAL | NOMINAL PIPE SIZE (IN) | PENETRATION SIZE (IN) |
|--------------------|---------------------------------------|---------------------------|----------------------|-----------------------|------------------|------------------------|-----------------------|
| P-1 | FLUSH FLANGE x 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 1/2 | 3 1/2 |
| P-13 | WALL SLEEVE | MEZZANINE SEPARATING WALL | 11.50 | SUMP PUMP | GALVANIZED STEEL | 1 1/2 | 3 1/2 |
| 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 |

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PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

**STRUCTURAL NOTES
(2 OF 2)**

NO. REVISIONS DATE

DRAWN BY: BWN

DESIGNED BY: TMW

CHECKED BY: CWJ

ISSUE DATE: 3/31/2022

BETA JOB NO.: 5530

SCALE

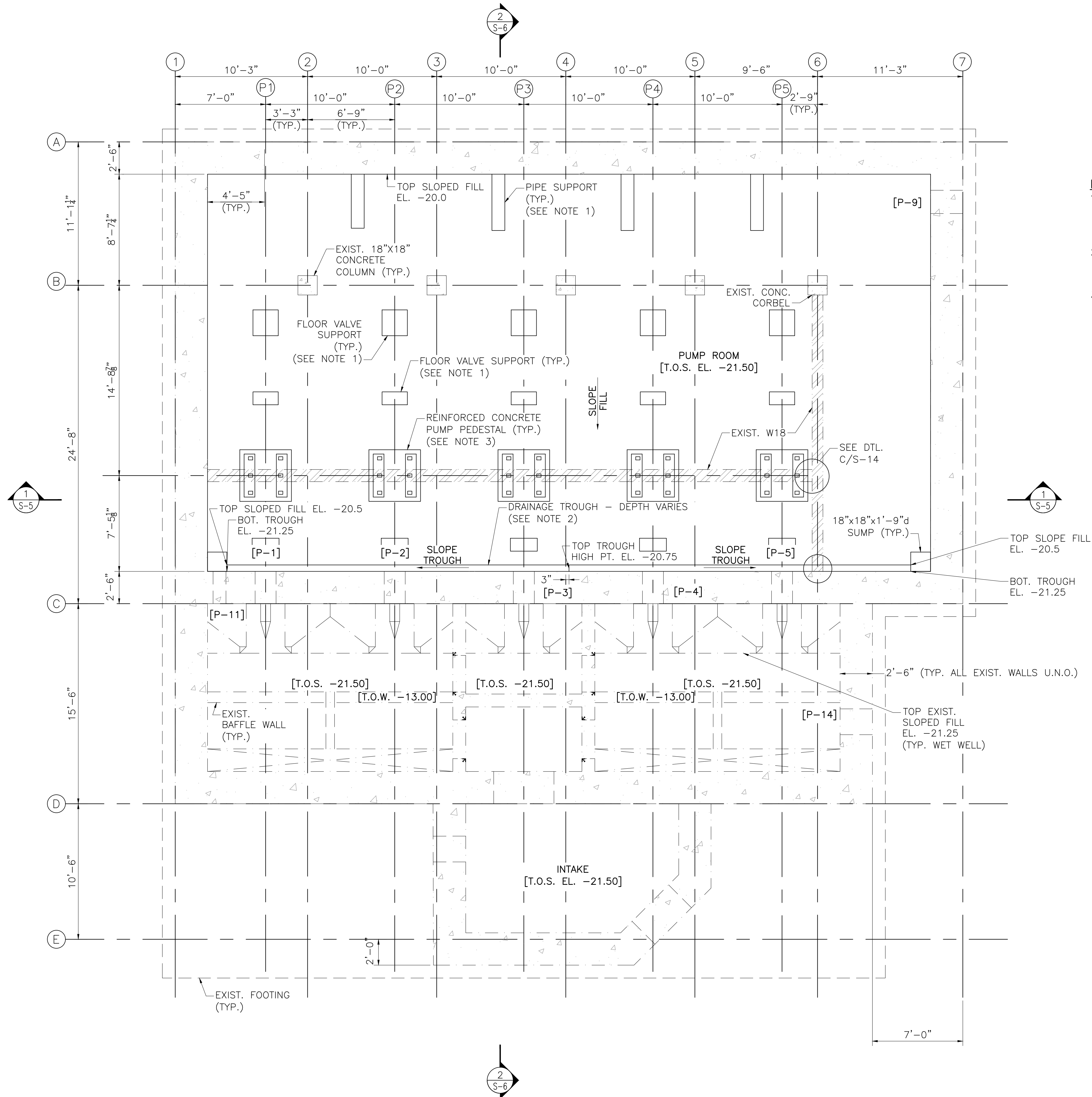
NONE

SHEET NO.

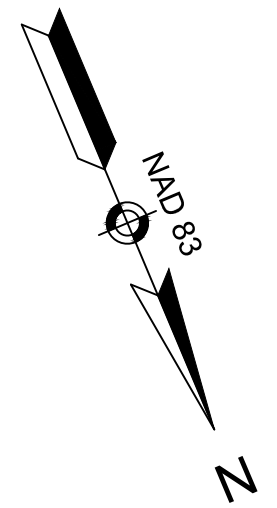
S-2

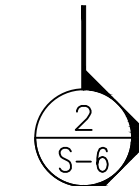
8/19/2020 3:42 PM J:\TAUNTON\MAIN LIFT PUMP STATION\TAUNTON\DRAWING\FILES\STRUCTURAL\PHASE 3\2\5530_SRC2.DWG (BETA STB B/W STB)


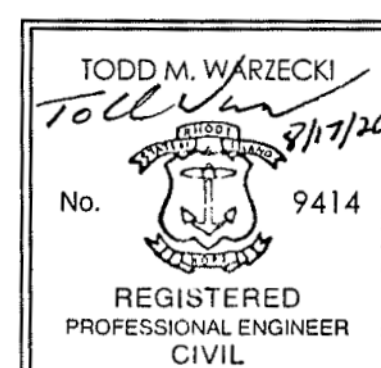
8/19/2020 3:42 PM J:\TAUNTONMAIN LIFT PUMP STATION\AUTOCAD\DRAWINGFILES\STRUCTURAL\PHASE 3\3-2\N530_SR2A.DWG (BETA STB BW STB)



- NOTES:**
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.




 [PLAN @ ELEV. -21.50]
PUMP ROOM PLAN
 SCALE: 1/4" = 1'-0"

| | | |
|--|-----------|------|
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|  | | |
| PROJECT | | |
| Main Lift Pump Station | | |
| Taunton, MA | | |
| TITLE | | |
| EXISTING PUMP ROOM PLAN | | |
| NO. | REVISIONS | DATE |
| DRAWN BY: BWN | | |
| DESIGNED BY: TMW | | |
| CHECKED BY: CWJ | | |
| ISSUE DATE: 3/31/2022 | | |
| BETA JOB NO.: 5530 | | |
| SCALE | | |
| AS SHOWN | | |
| <small>UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION</small> | | |
| SHEET NO. | | |
| S-3 | | |

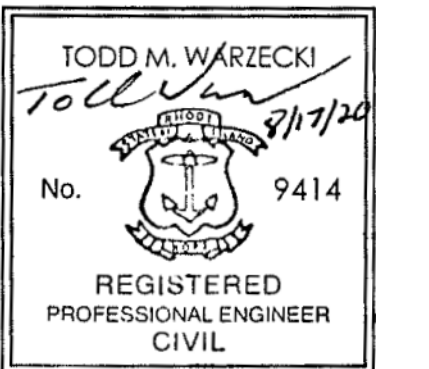
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PROJECT

Main Lift
Pump Station

Taunton, MA

TITLE

EXISTING GROUND
FLOOR PLAN

NO. REVISIONS DATE

DRAWN BY: BWN

DESIGNED BY: TMW

CHECKED BY: CWJ

ISSUE DATE: 3/31/2022

BETA JOB NO.: 5530

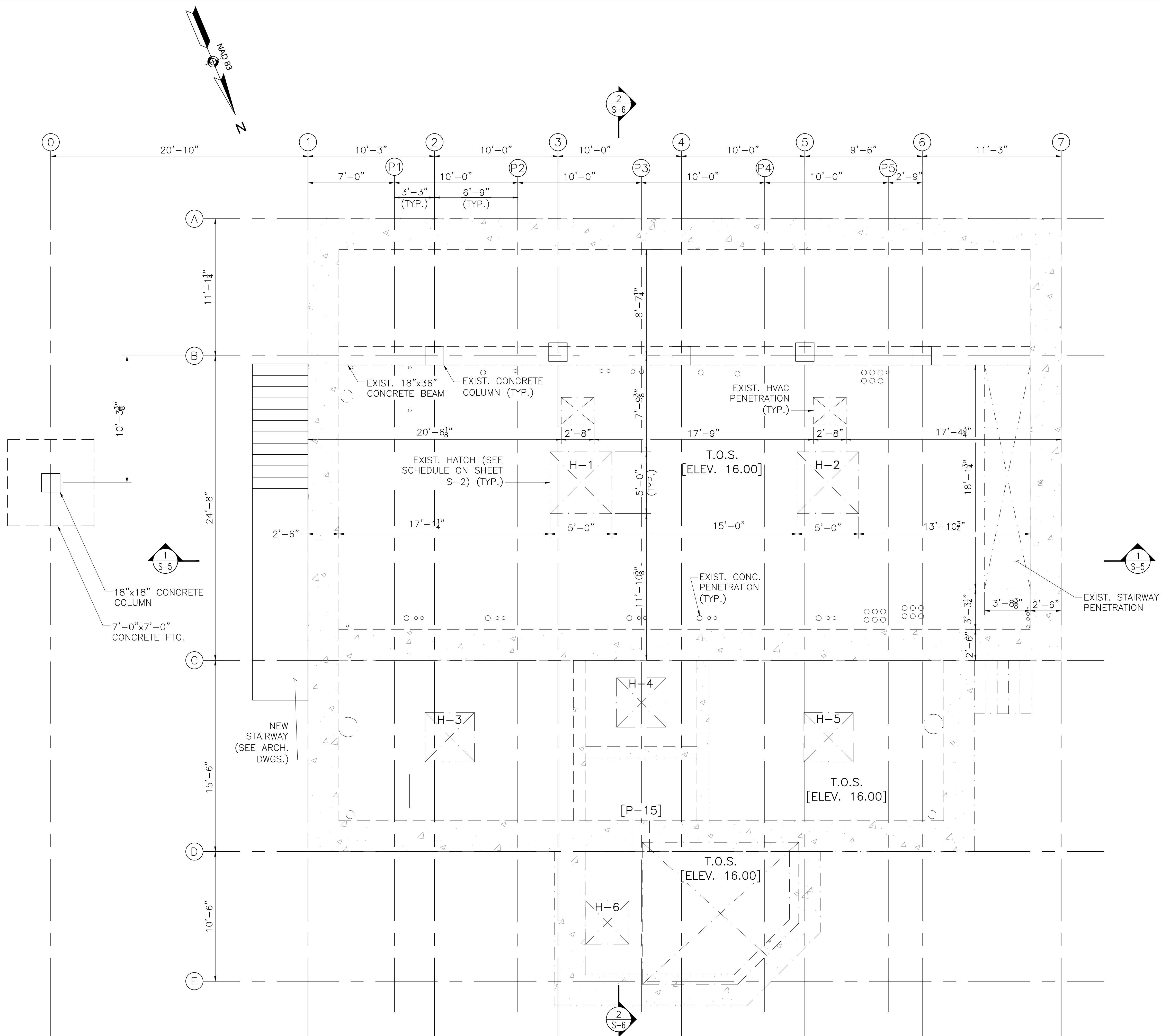
SCALE

AS SHOWN

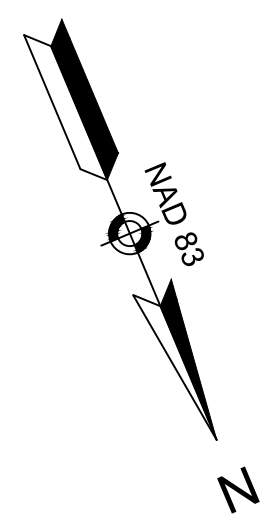
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

S-4

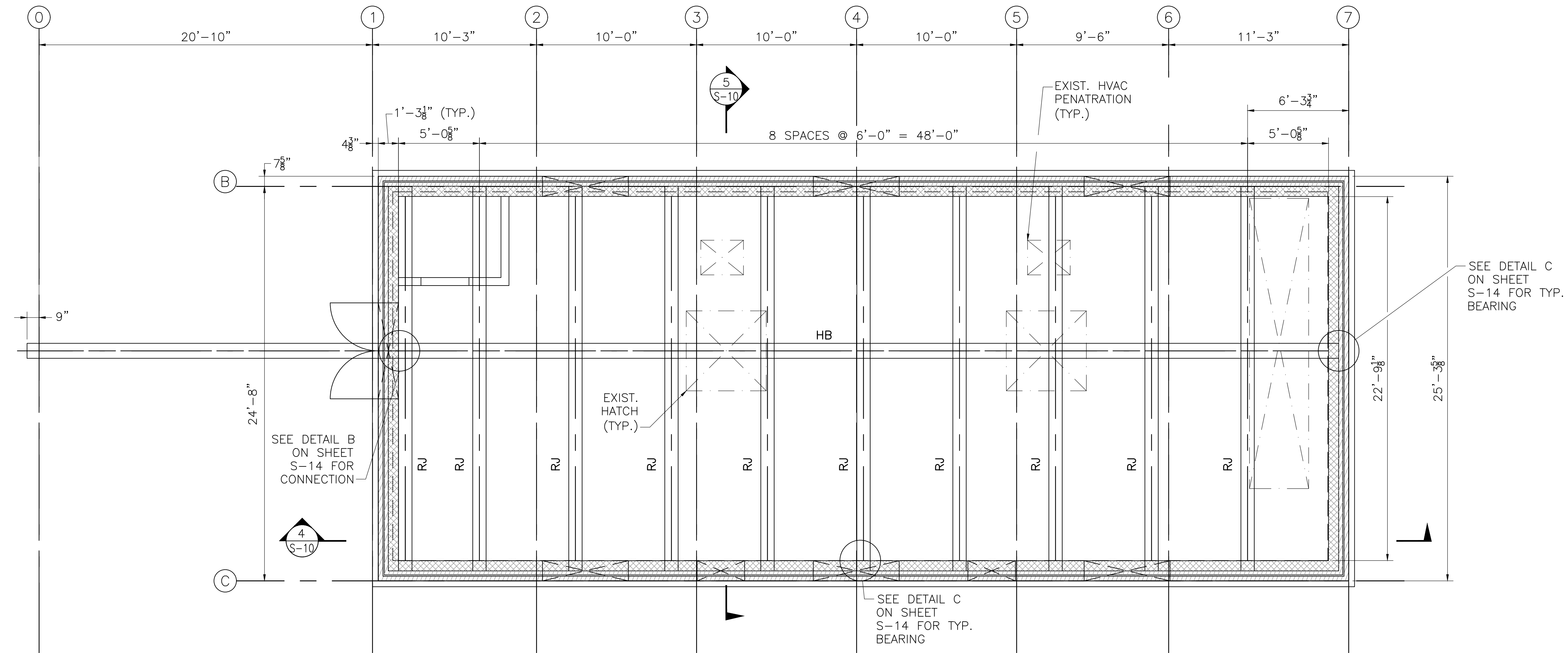


[PLAN @ ELEV. 16.00]
EXISTING GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"



FRAMING PLAN NOTES:

- RJ = W14x61 (ROOF JOIST)
HB = W18x143 (HOIST BEAM)
- HOLES SMALLER THAN 12" ARE NOT SHOWN FOR CLARITY. COORDINATE WITH EQUIPMENT MANUFACTURERS AND OTHER DISCIPLINES FOR LOCATIONS.



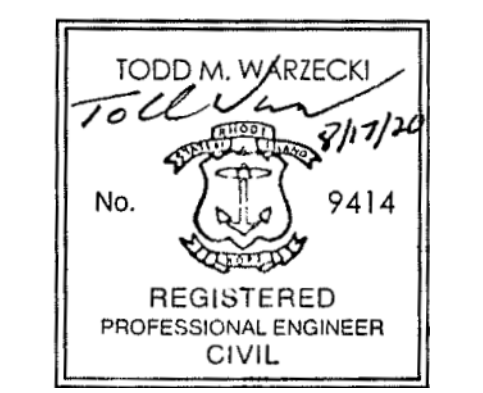
CONTROL ROOM ROOF FRAMING PLAN
SCALE: $\frac{1}{4}'' = 1'-0''$

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PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

**CONTROL BUILDING
ROOF FRAMING PLAN**

| | | |
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| NO. | REVISIONS | DATE |
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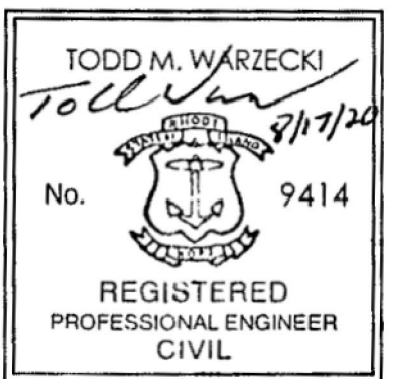
| | |
|---------------|-----------|
| DRAWN BY: | BWN |
| DESIGNED BY: | TMW |
| CHECKED BY: | CWJ |
| ISSUE DATE: | 3/31/2022 |
| BETA JOB NO.: | 5530 |

SCALE

AS SHOWN

SHEET NO.

S-9

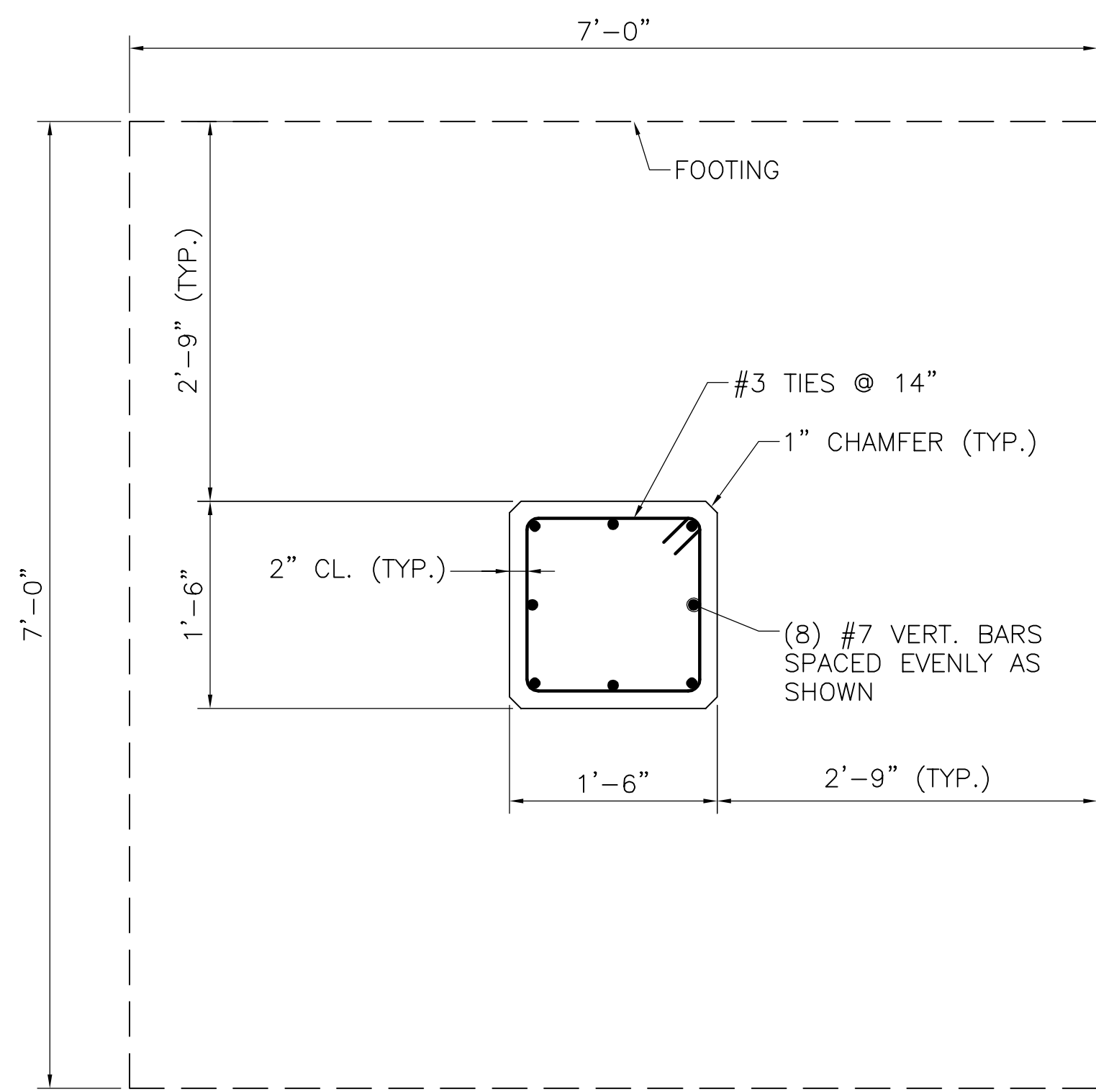


| NO. | REVISIONS | DATE |
|-----|--------------------------|---------|
| 1 | STAIR SUPPORT PAD DETAIL | 4/18/22 |

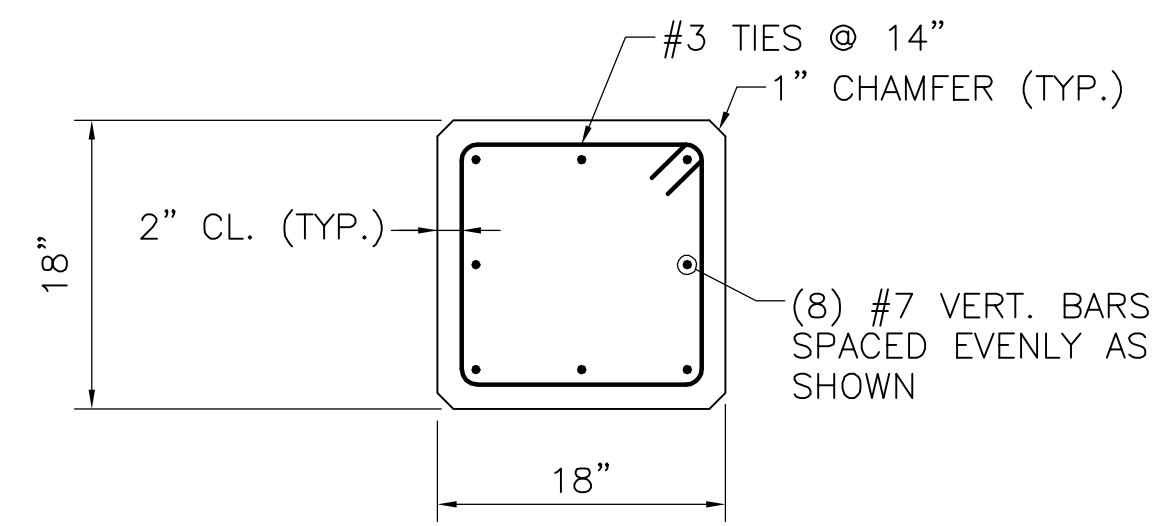
| | |
|---------------|-----------|
| DRAWN BY: | BWN |
| DESIGNED BY: | TMW |
| CHECKED BY: | CWJ |
| ISSUE DATE: | JULY 2020 |
| BETA JOB NO.: | 5530 |

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|-------|----------|
| SCALE | AS SHOWN |
|-------|----------|

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|-----------|------|
| SHEET NO. | S-12 |
|-----------|------|

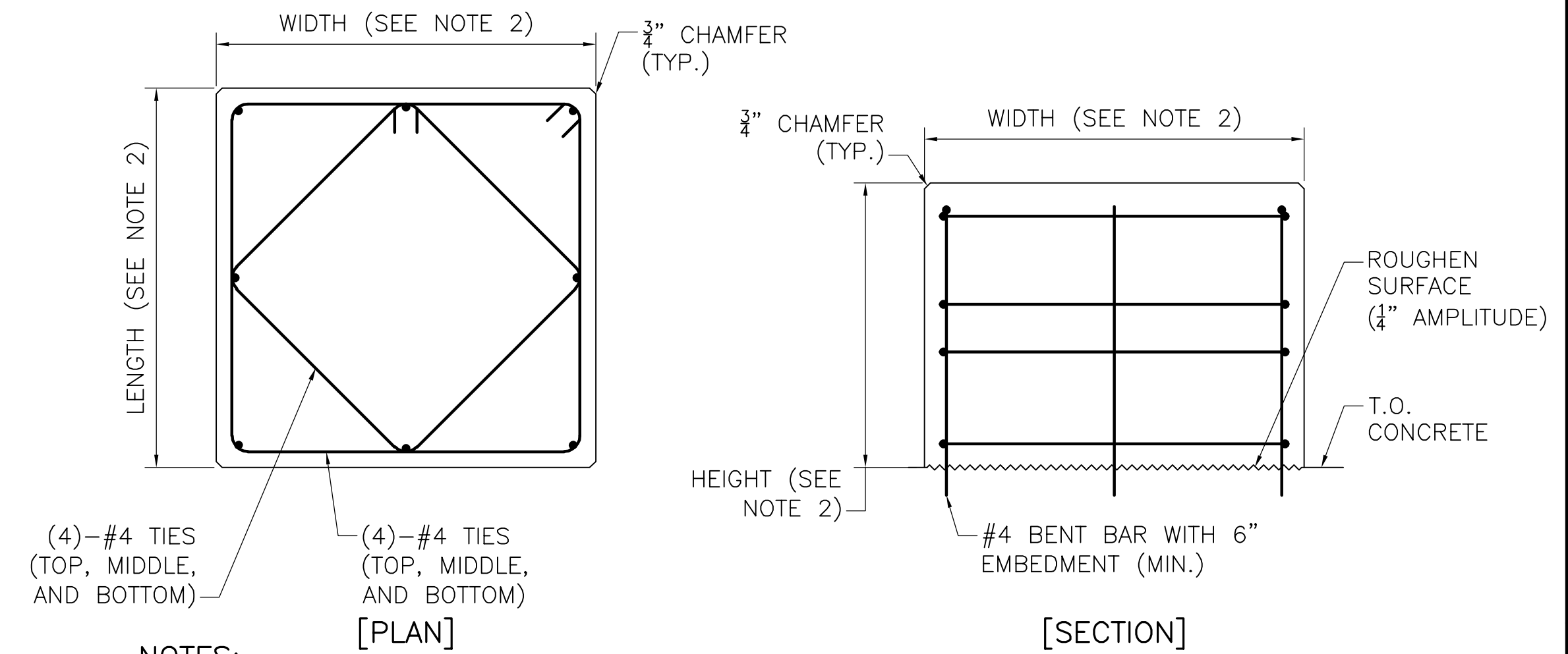


SECTION 8 - FOOTING PLAN
SCALE: 1" = 1'-0"



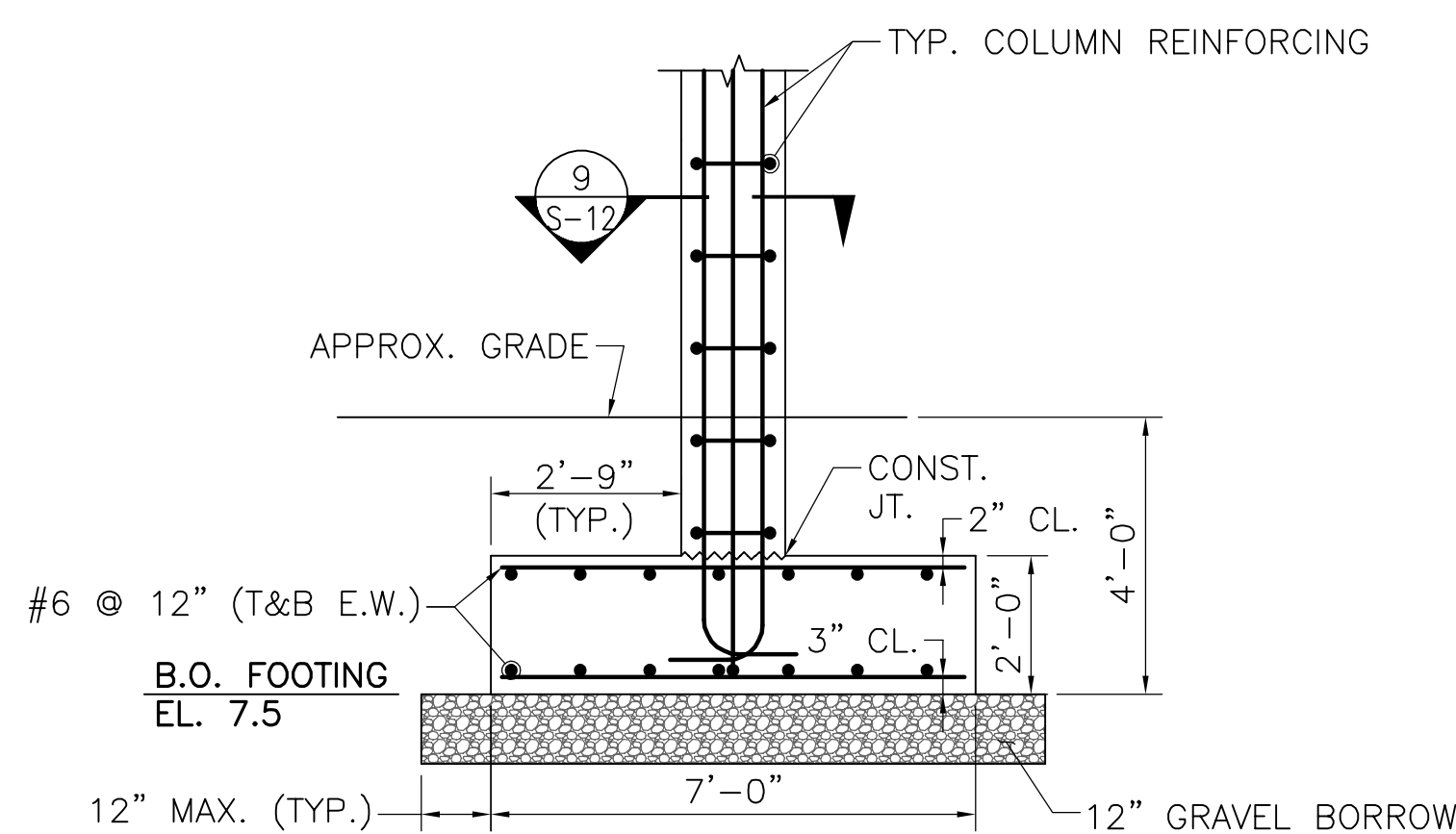
[TYPICAL 18"x18" COLUMN SECTION]

SECTION 9
SCALE: 1" = 1'-0"

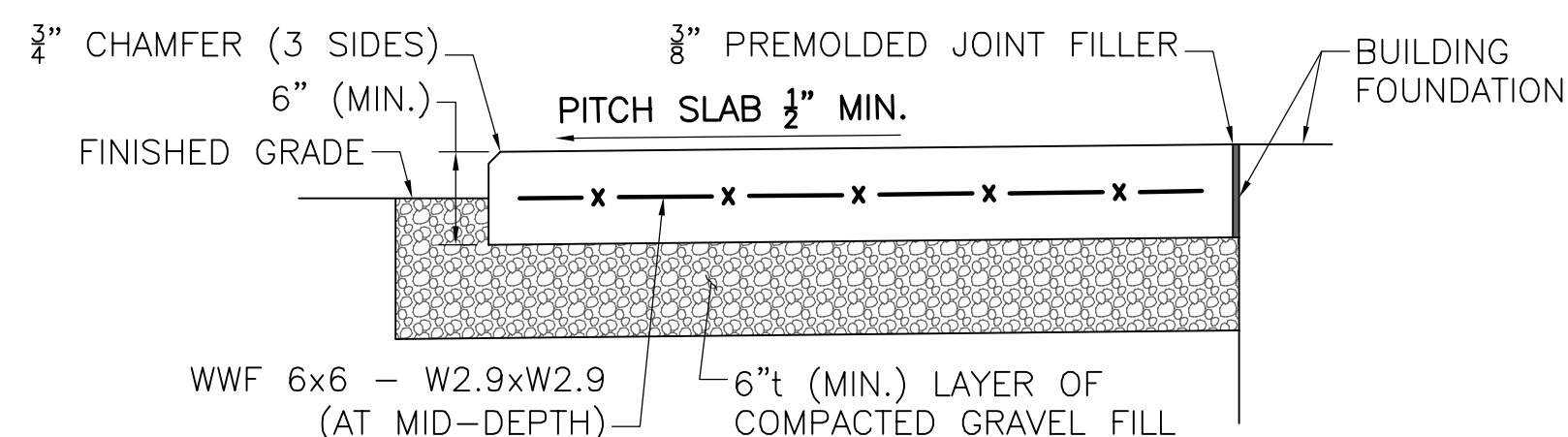


- NOTES:
- THIS DETAIL IS NOT INTENDED TO BE USED FOR PUMP PEDESTALS. PUMP PEDESTAL DETAILS TO BE PROVIDED BY PUMP MANUFACTURER.
 - HEIGHT AND WIDTH OF EQUIPMENT PEDESTAL TO BE PROVIDED BY EQUIPMENT MANUFACTURER.

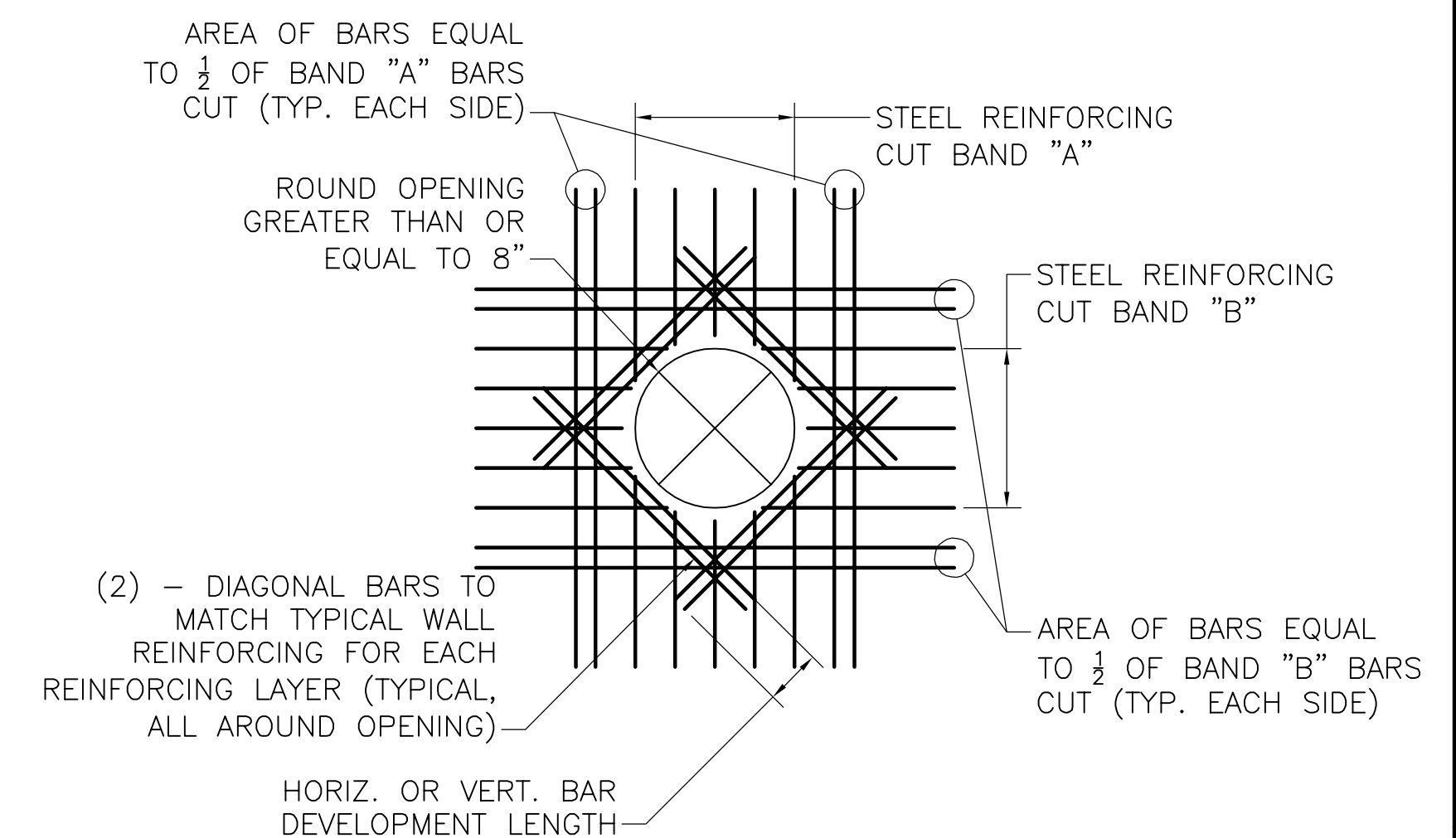
EQUIPMENT PEDESTAL
NOT TO SCALE



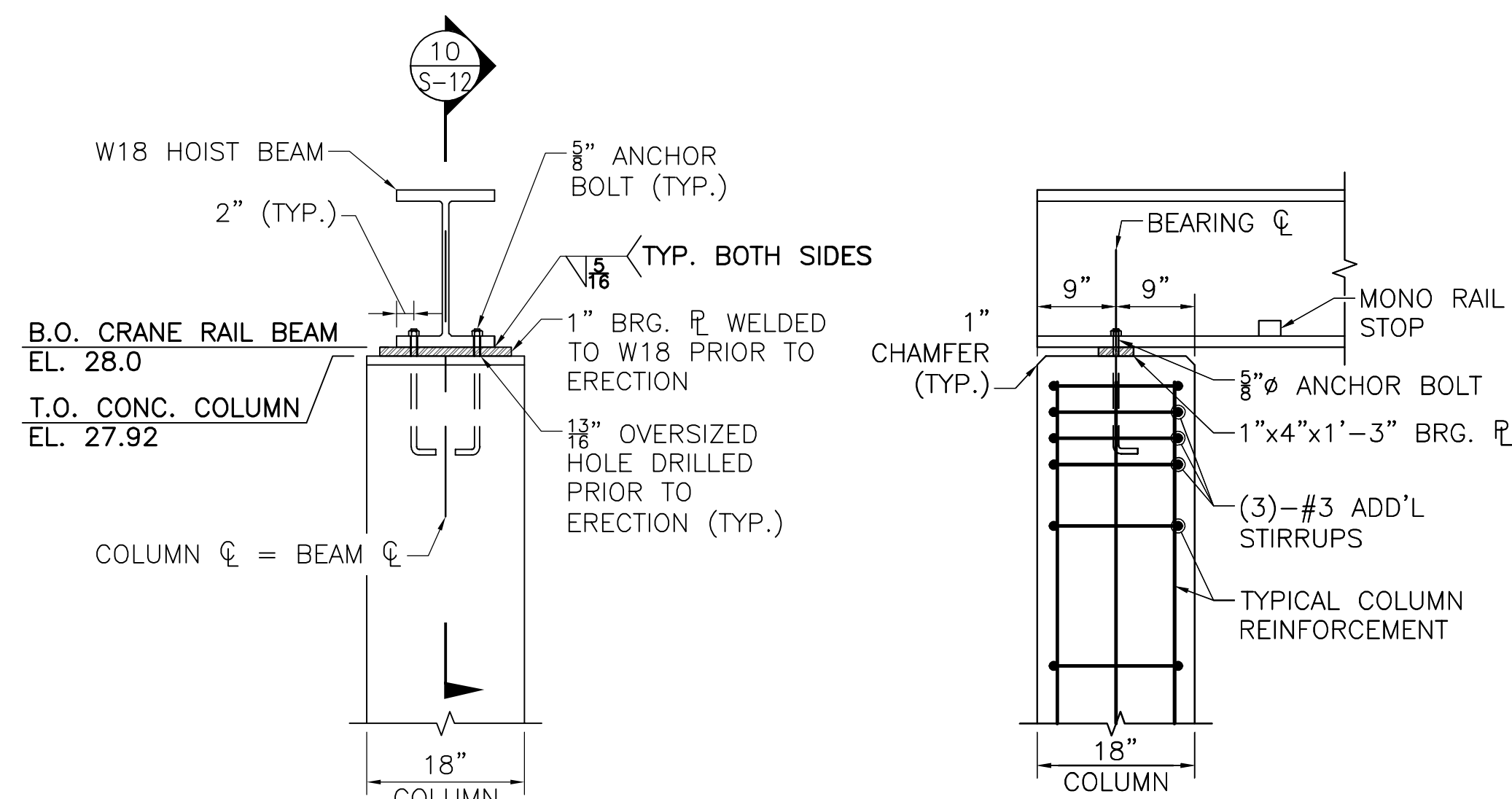
EXTERIOR COLUMN FOOTING
SCALE: 3/8" = 1'-0"



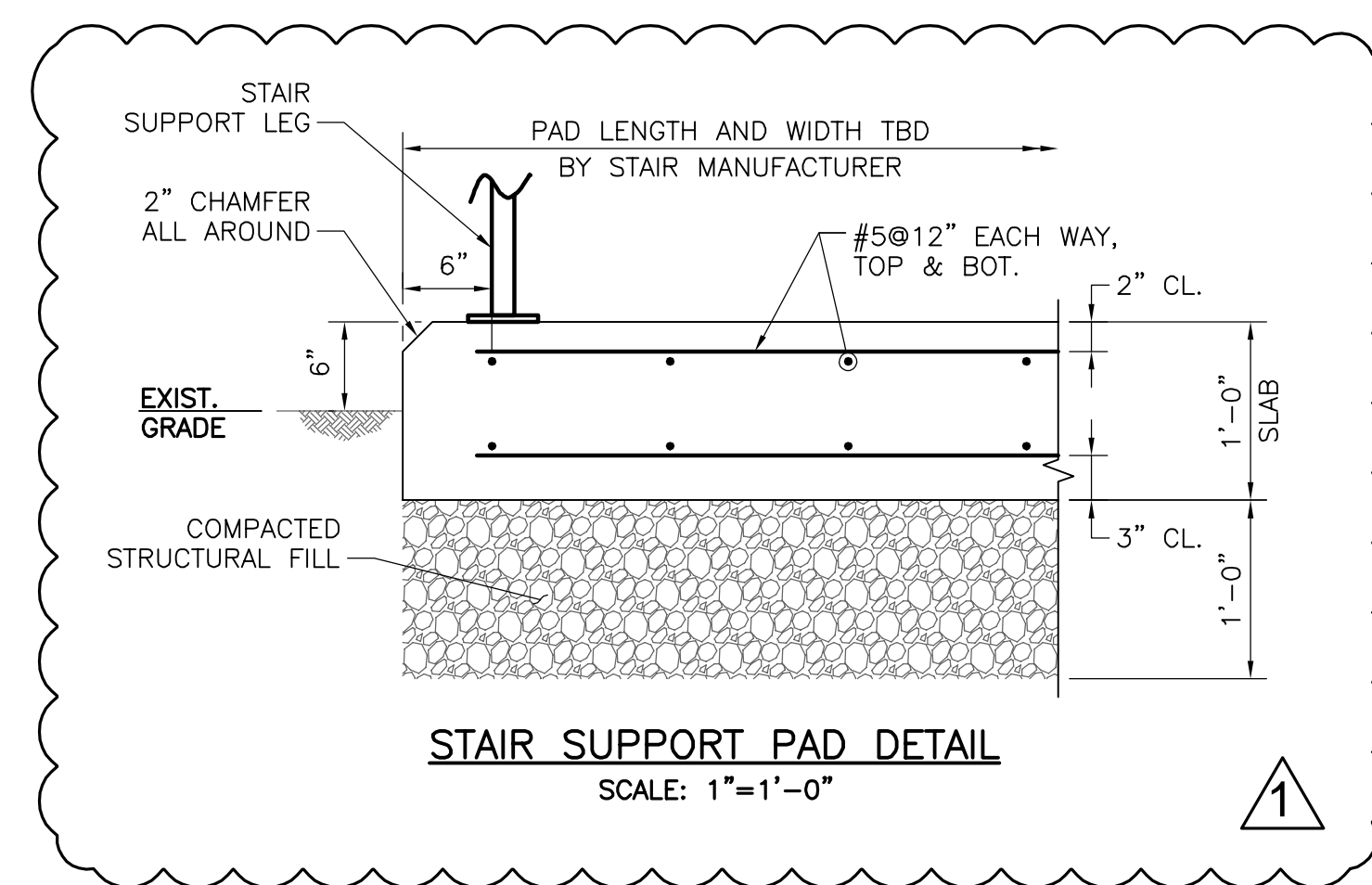
CONCRETE LANDING DETAIL
NOT TO SCALE



[ROUND]
[SQUARE]
TYPICAL PENETRATION DETAIL
SCALE: 1/2" = 1'-0"

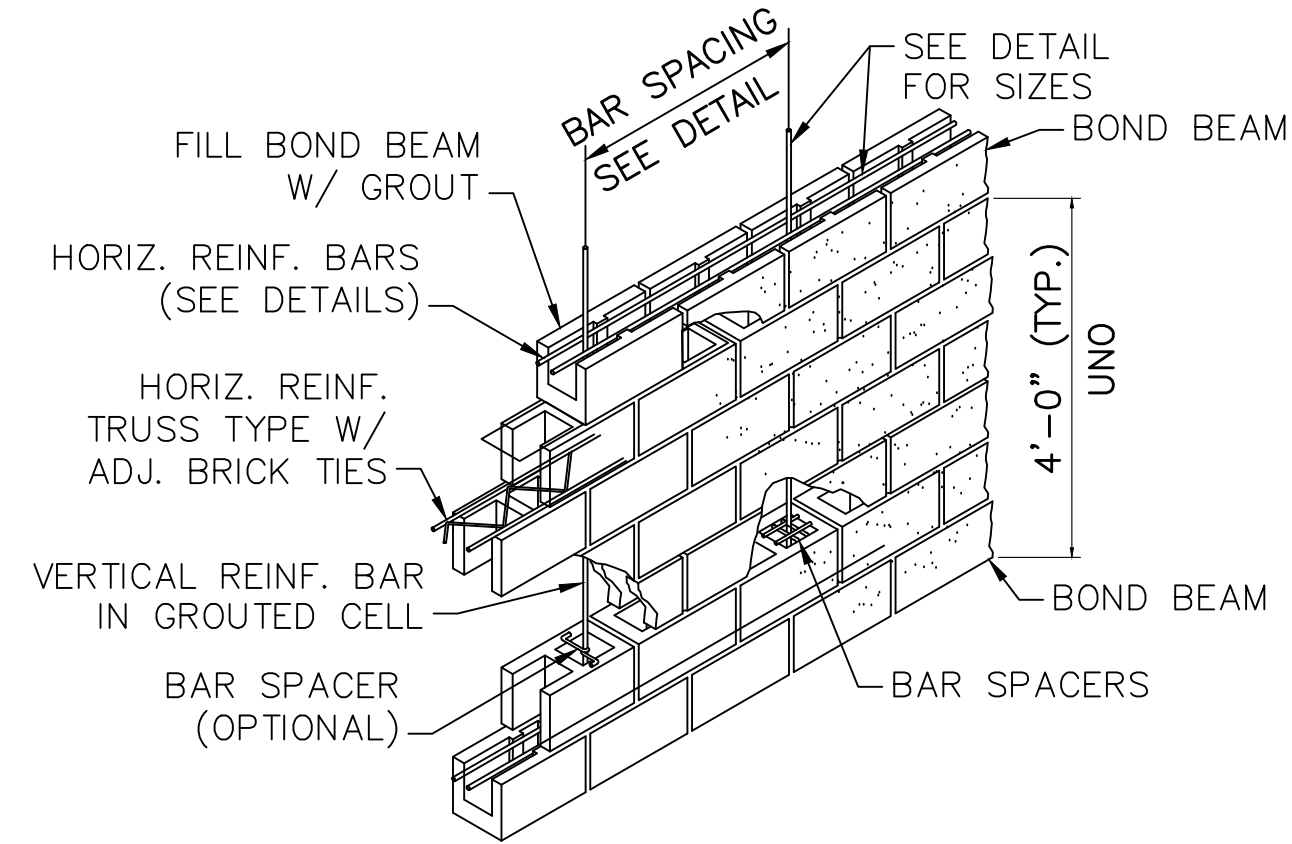


DETAIL A
SCALE: 3/4" = 1'-0"

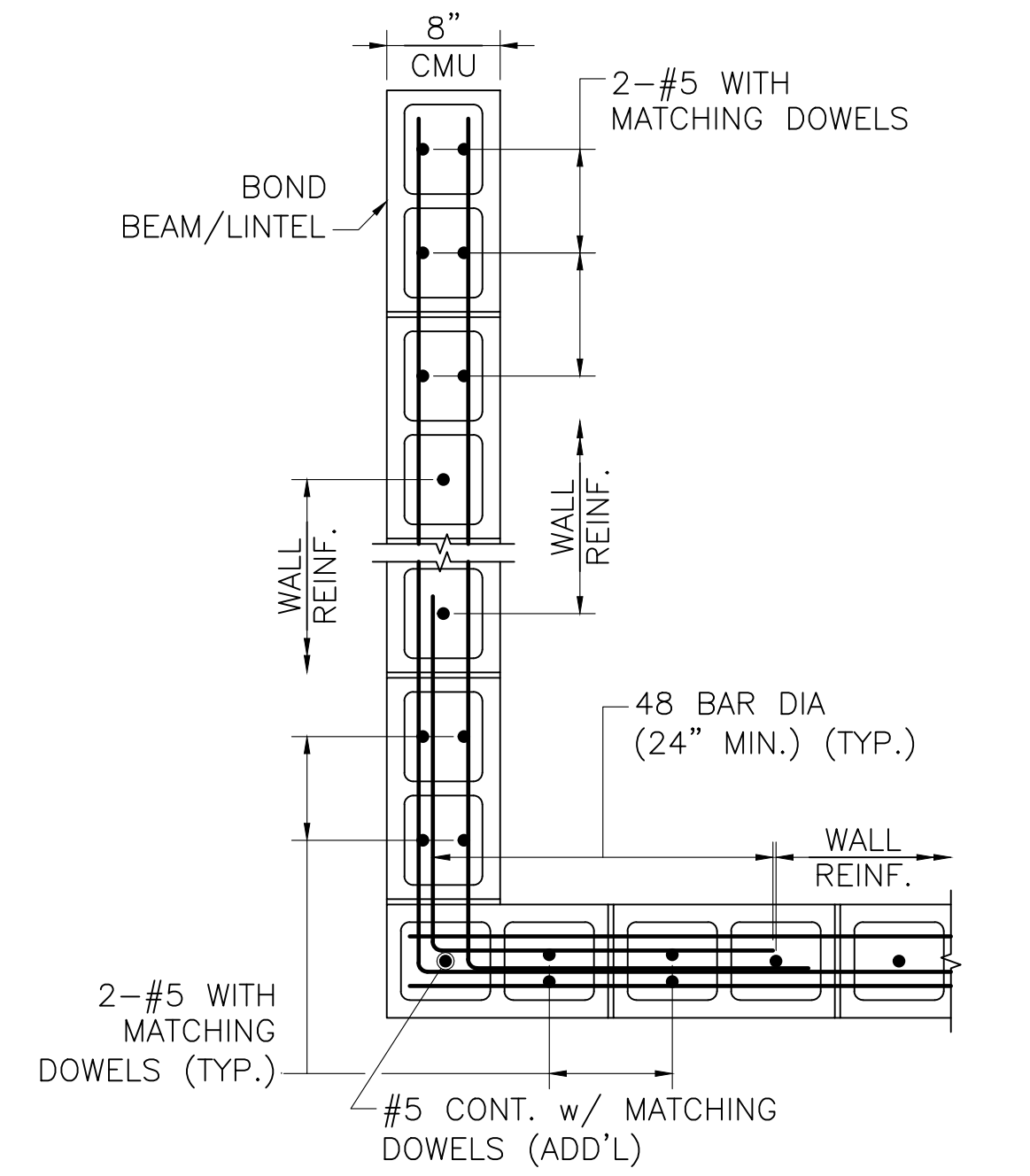


STAIR SUPPORT PAD DETAIL
SCALE: 1" = 1'-0"

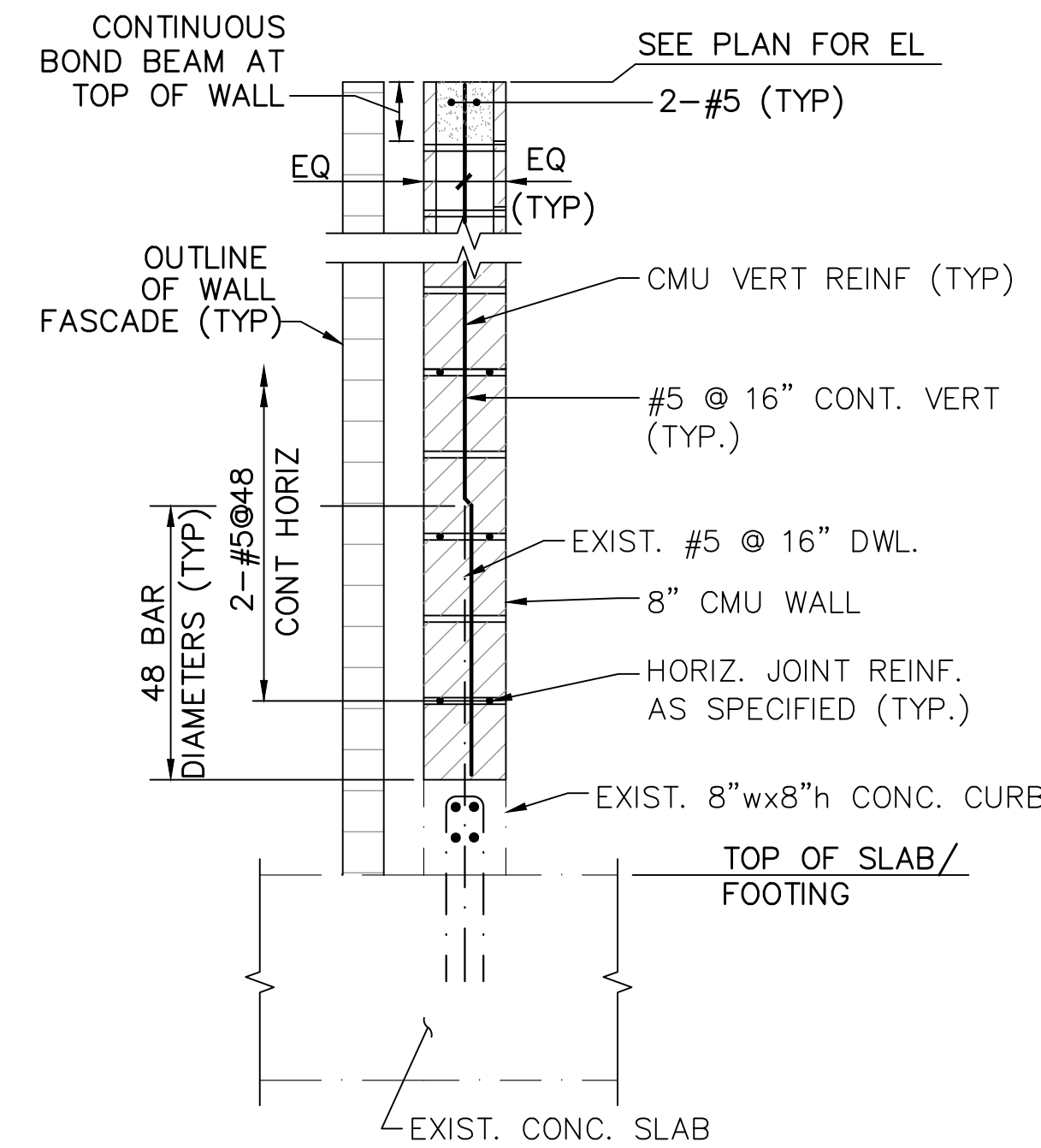
8/19/2020 3:47 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWING\FILES\STRUCTURAL\PHASE 3\S-12\5530_SRI12.DWG (BETA STB BW STB)



CMU WALL CONSTRUCTION
SCALE: NOT TO SCALE



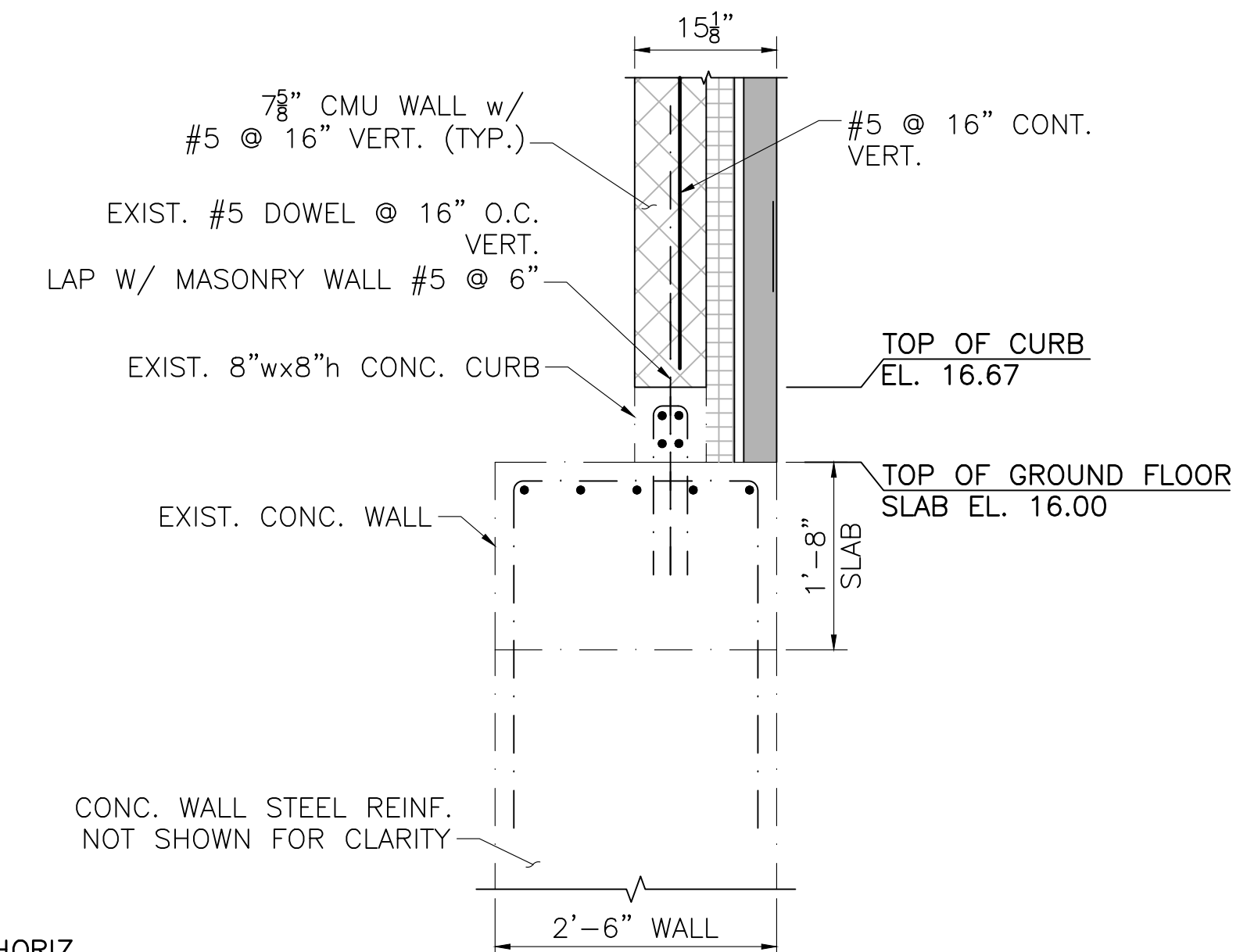
TYPICAL CMU WALL CORNER AND AT END
NOT TO SCALE



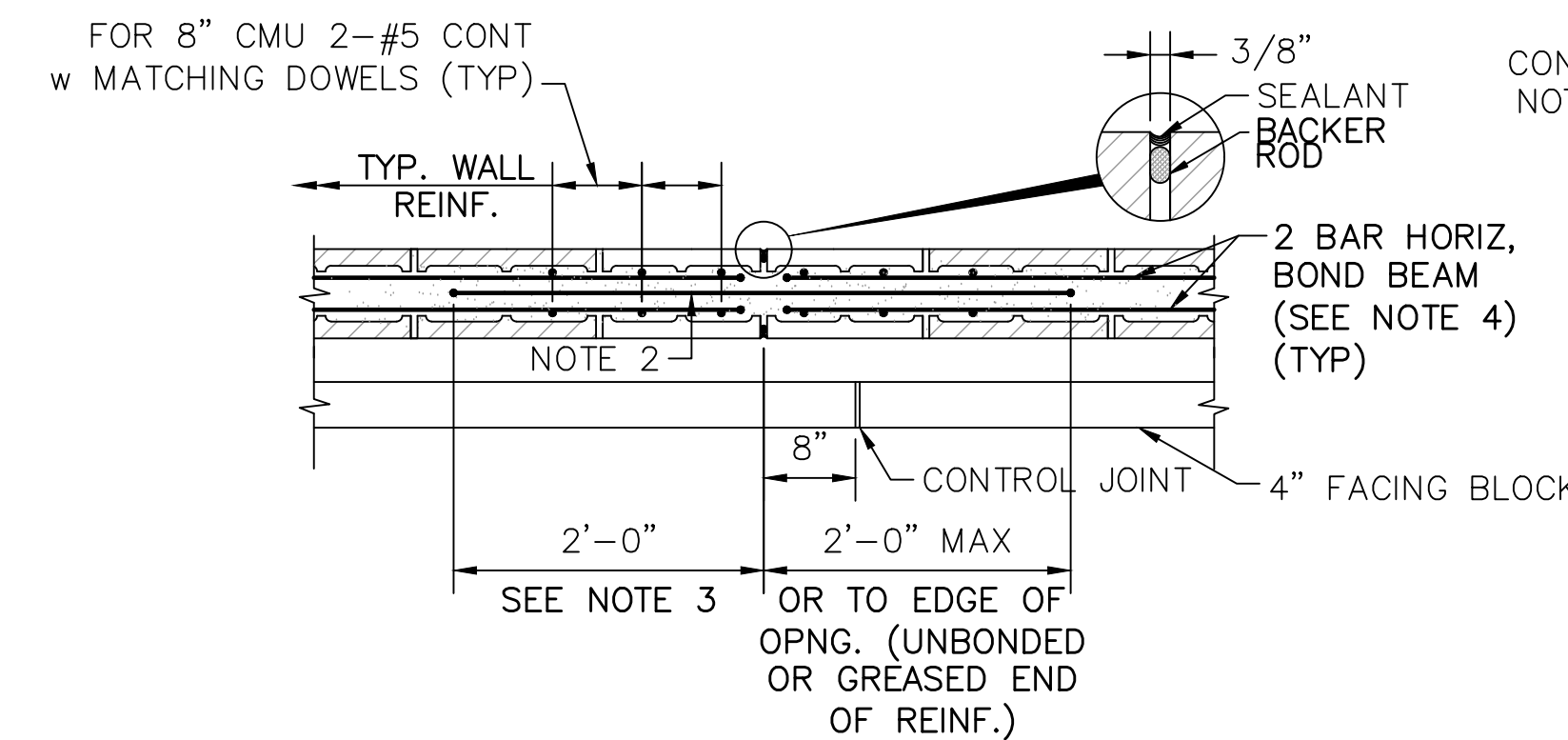
TYPICAL CMU WALL REINFORCING
SCALE: 3/4" = 1'-0"

CMU MASONRY NOTES:

1. $f'_m = 2000$ P.S.I. (MIN.)
2. CMU MASONRY DETAILS, ELEVATIONS AND NOTES ON THIS SHEET APPLY TO ALL CMU EXTERIOR AND INTERIOR WALLS U.N.O. (WALLS CONSIST OF A SINGLE CMU WYTHE AND ONE BRICK WYTHE)
3. FULLY GROUT ALL CELLS AND COURSES WITH VERTICAL OR HORIZONTAL REINFORCING. PROVIDE 2" MINIMUM CLEAR COVER TO THE REINFORCING (U.N.O.).
4. ALL HORIZONTAL REINFORCING, EXCEPT IN THE LINTELS, SHALL BE PLACED IN A CMU BOND BEAM BLOCK. PROVIDE GALVANIZED METAL LATH IN THE HORIZONTAL JOINT BELOW THE BLOCK TO RETAIN THE GROUT.
5. PROVIDE A CONTINUOUS BOND BEAM WITH 2-#5 CONTINUOUS HORIZONTAL BARS AT THE TOP OF ALL WALLS.
6. REINFORCING LAP SPLICE LENGTH = 48 BAR DIAMETERS (24" MINIMUM).
7. PROVIDE HORIZONTAL JOINT REINFORCING AS NEEDED.
8. REINFORCING BARS TO EXTEND 12 BAR DIAMETERS BUT NOT LESS THAN 12" BEYOND BEND U.N.O.
9. FOR PLAN LOCATION OF MASONRY WALLS AND OTHER MASONRY DETAILS, SEE ARCHITECTURAL DRAWINGS.
10. FOR LOCATION AND SIZE OF MASONRY WALL OPENINGS, SEE ARCHITECTURAL DRAWINGS.



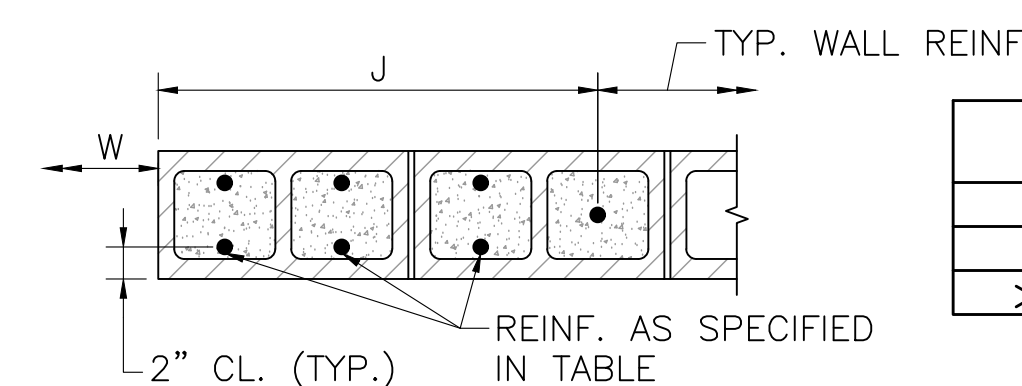
SECTION 11 AT STAIRWAY OPENING
SCALE: 3/4" = 1'-0"



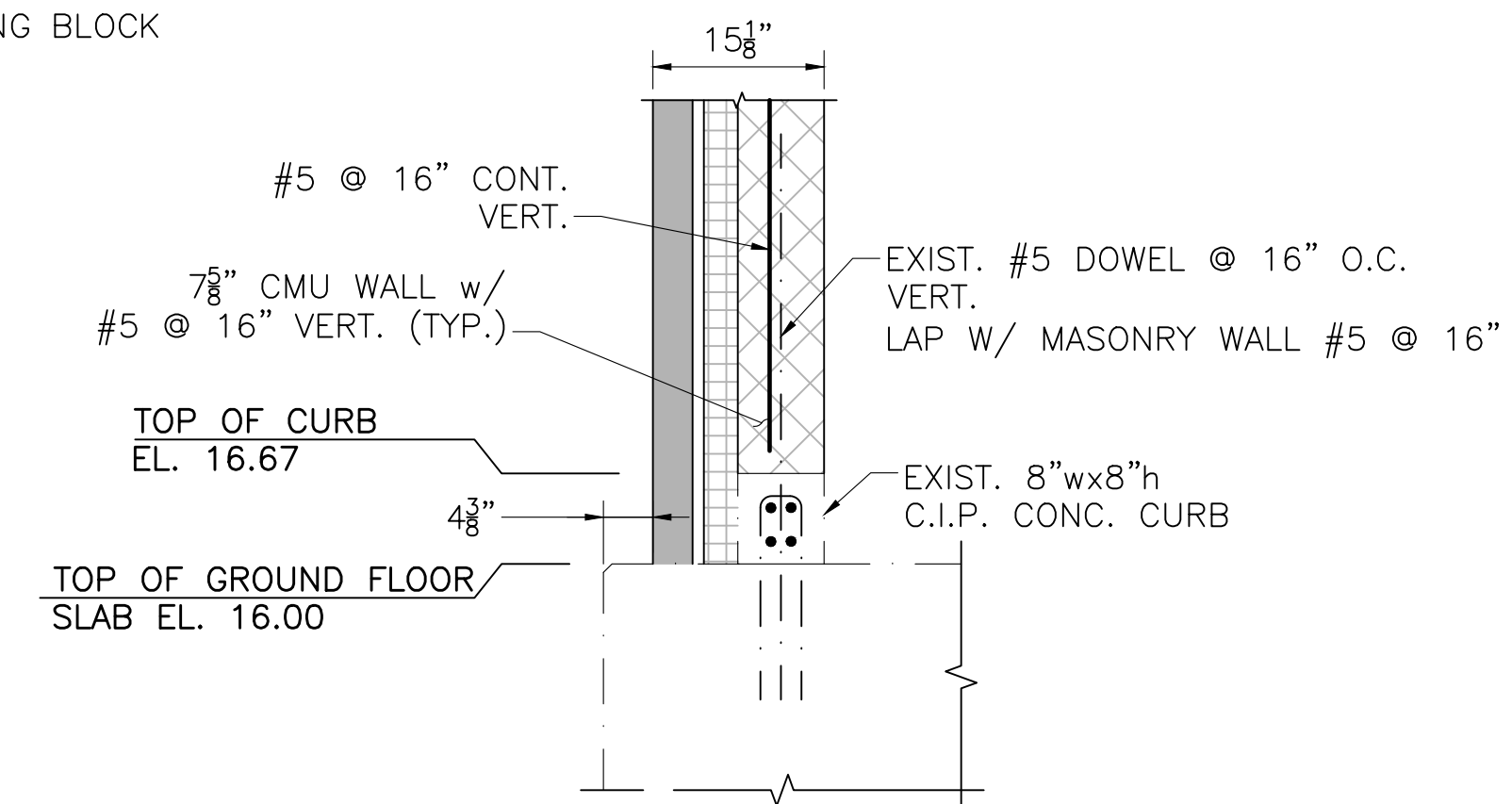
NOTES:

1. TERMINATE HORIZ. REINFORCEMENT WITH A STANDARD HOOK TWO INCHES FROM CONTROL JOINTS.
2. PROVIDE SMOOTH DOWEL IDENTICAL TO HORIZONTAL BAR DIAMETER ACROSS THE JOINT AT HORIZONTAL BAR LOCATIONS. PREVENT BOND BETWEEN BAR AND GROUT ON ONE SIDE OF JOINT WITH PLASTIC SLEEVE OR GREASE. CAP ALL DOWELS TO ALLOW ONE INCH OF MOVEMENT.
3. PROVIDE STD. HOOK ON SIDE WITH BOND IF 2'-0" LENGTH IS NOT POSSIBLE.
4. CONTINUE HORIZ REINF THROUGH MCJ @ BEAM BEARING, DECK BEARING, T.O.W. BOND BEAMS AND LINTEL REINF. SMOOTH DOWEL BAR NOT REQUIRED.

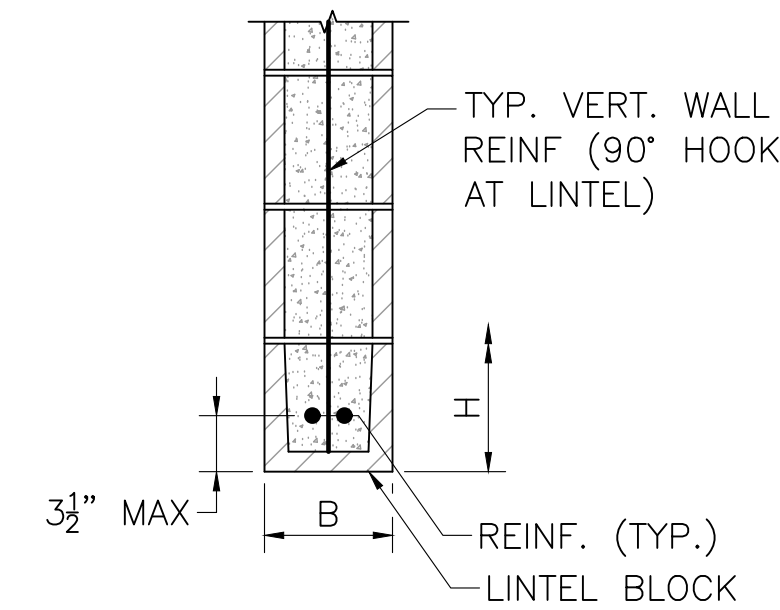
MASONRY CONTROL JOINT (MCJ)
SCALE: 3/4" = 1'-0"



TYPICAL CMU WALL OPENING
NOT TO SCALE



SECTION 12
SCALE: 3/4" = 1'-0"



TYPICAL CMU LINTEL
NOT TO SCALE

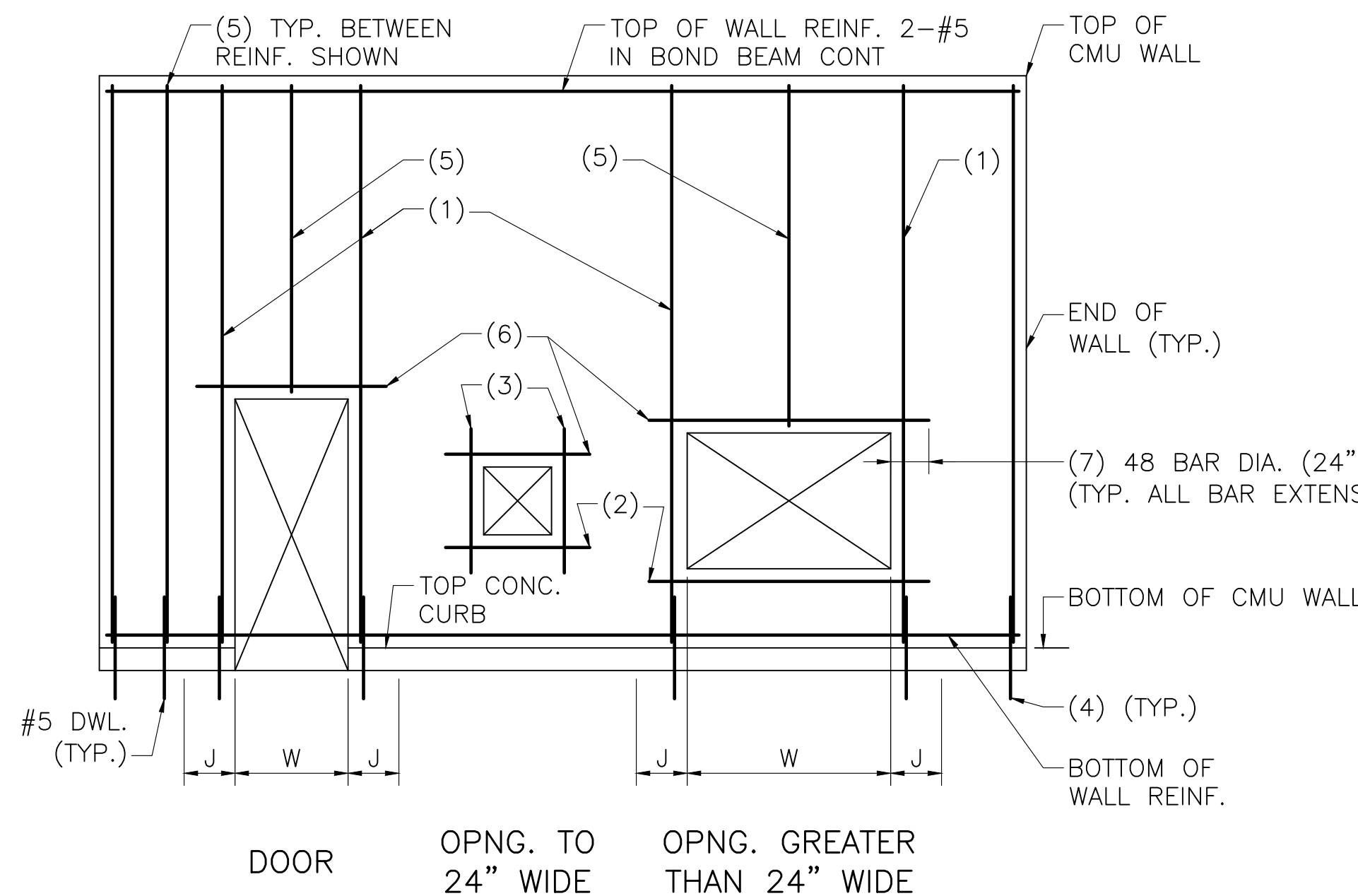
NOTES:

1. PROVIDE 8" MINIMUM BEARING AT EACH SIDE OF CLEAR SPAN.
2. FULLY GROUT CMU OVER DEPTH "H" TO ENDS OF BEARING.
3. MAY CONSIST OF FULLY GROUTED H=16" CMU LINTEL BLOCK OR H = 8" CMU LINTEL BLOCK PLUS 8" CMU BLOCK(S), FULLY GROUTED.

| MARK/LOCATION | W | B | H | REINF. |
|---------------|---------------------|-------------------|-----|-----------|
| L1 | < 3'-0" | WIDTH OF CMU WALL | 8" | 2-#5 BOT. |
| L2 | > 3'-0" BUT < 6'-0" | WIDTH OF CMU WALL | 16" | 2-#5 BOT. |

LEGEND

- (1) SEE TYPICAL CMU WALL OPENING DETAIL THIS SHEET.
- (2) SILL BARS, 2-#5 IN BOND BEAM.
- (3) 1-#5 EACH SIDE.
- (4) SEE TYPICAL CMU WALL CORNER AND END DETAIL THIS SHEET.
- (5) BETWEEN BARS SHOWN, PROVIDE TYPICAL WALL REINFORCING PER TYPICAL CMU WALL REINFORCING DETAIL ON THIS SHEET.
- (6) SEE TYPICAL CMU LINTEL DETAIL ON THIS SHEET, AND ARCHITECTURAL DRAWINGS.
- (7) IF FULL LENGTH IS NOT AVAILABLE, EXTEND AS FAR AS POSSIBLE, HOOK 90°, THEN EXTEND, BEYOND BEND, REMAINDER OF LENGTH REQUIRED (BUT NOT LESS THAN 12")



TYPICAL CMU WALL ELEVATION
NOT TO SCALE

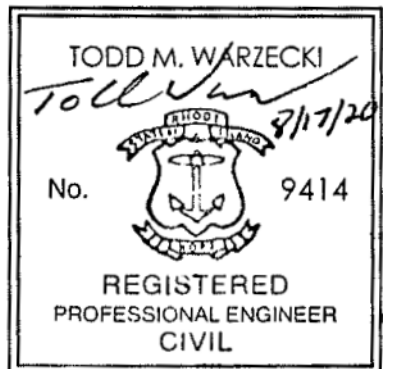
| W | JAMB WIDTH, J | VERTICAL REINF. |
|----------------------|---------------|----------------------|
| < 3'-4" | 1'-6" | 2-#5 @ 16" O.C. E.F. |
| > 3'-4" BUT < 6'-8" | 2'-0" | 2-#5 @ 8" O.C. E.F. |
| > 6'-8" BUT < 12'-0" | 2'-8" | 2-#5 @ 8" O.C. E.F. |

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PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

MASONRY DETAILS

NO. REVISIONS DATE

DRAWN BY: BWN

DESIGNED BY: TMW

CHECKED BY: CWJ

ISSUE DATE: 3/31/2022

BETA JOB NO.: 5530

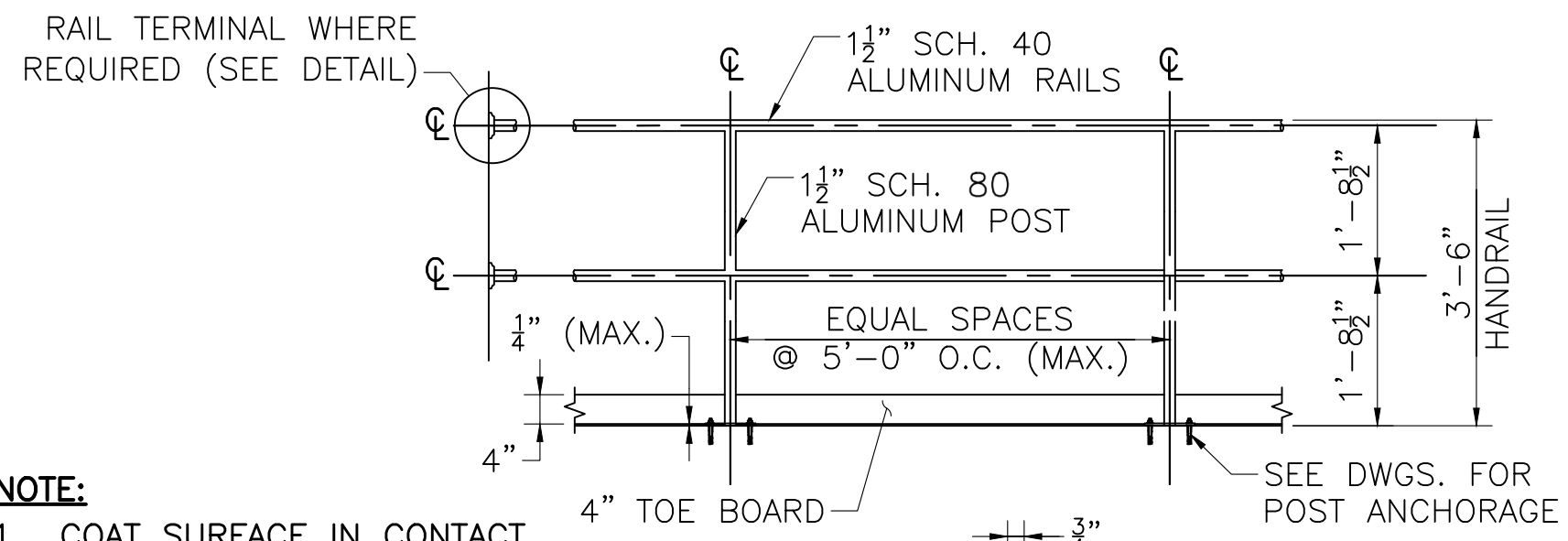
SCALE

AS SHOWN

SHEET NO.

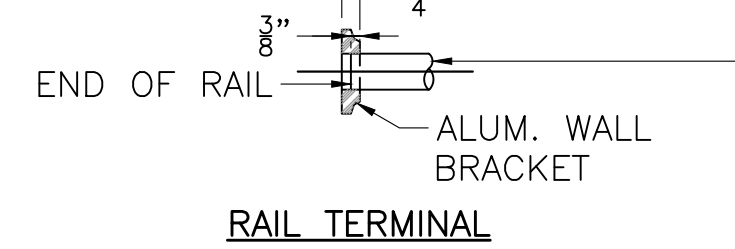
S-13

8/19/2020 3:48 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWING\FILES\STRUCTURAL\PHASE 3\3-136530_S-R13.DWG (BETA STB BW STB)



NOTE:

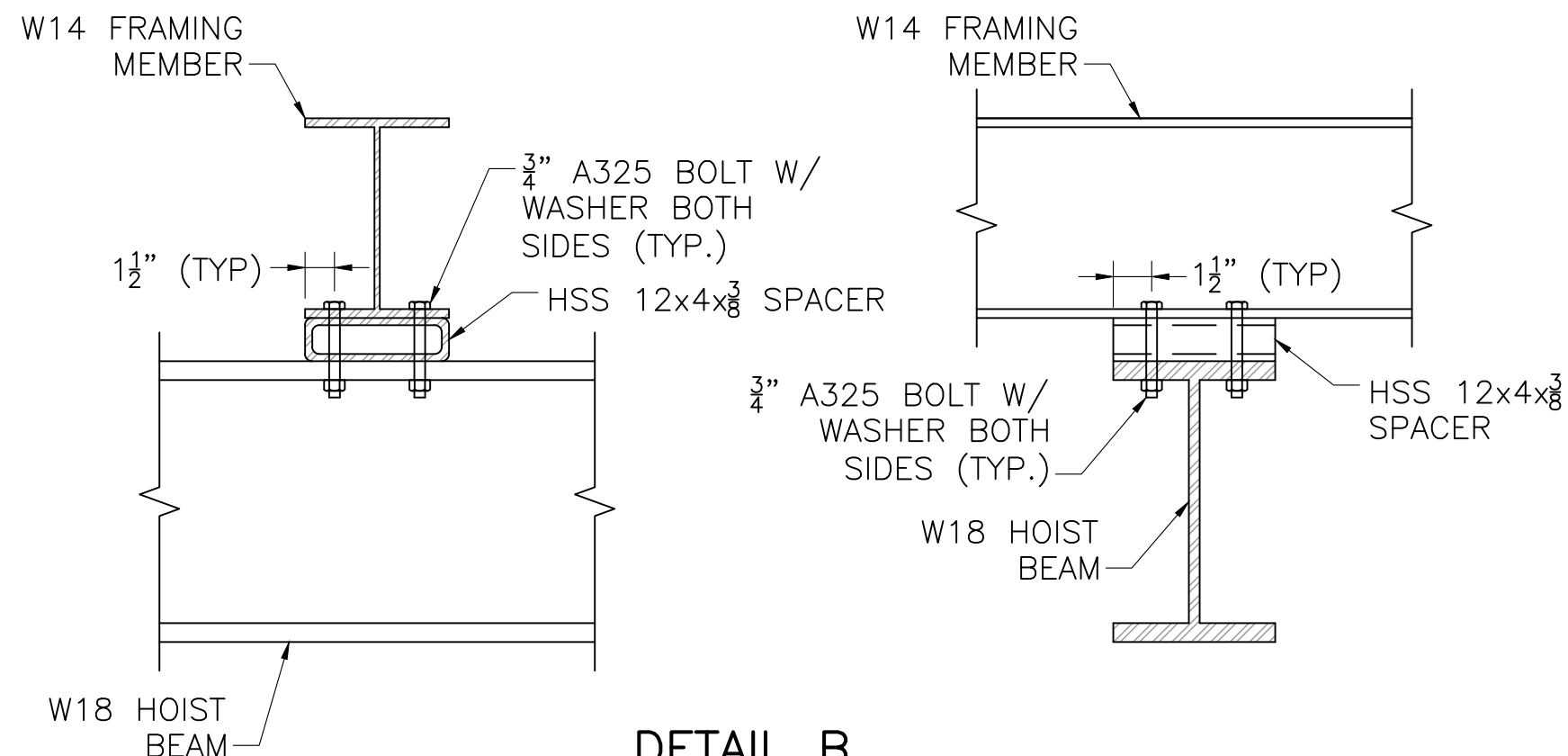
1. COAT SURFACE IN CONTACT WITH DISSIMILAR MATERIALS WITH BITUMASTIC COATING AS PER THE SPECIFICATIONS.



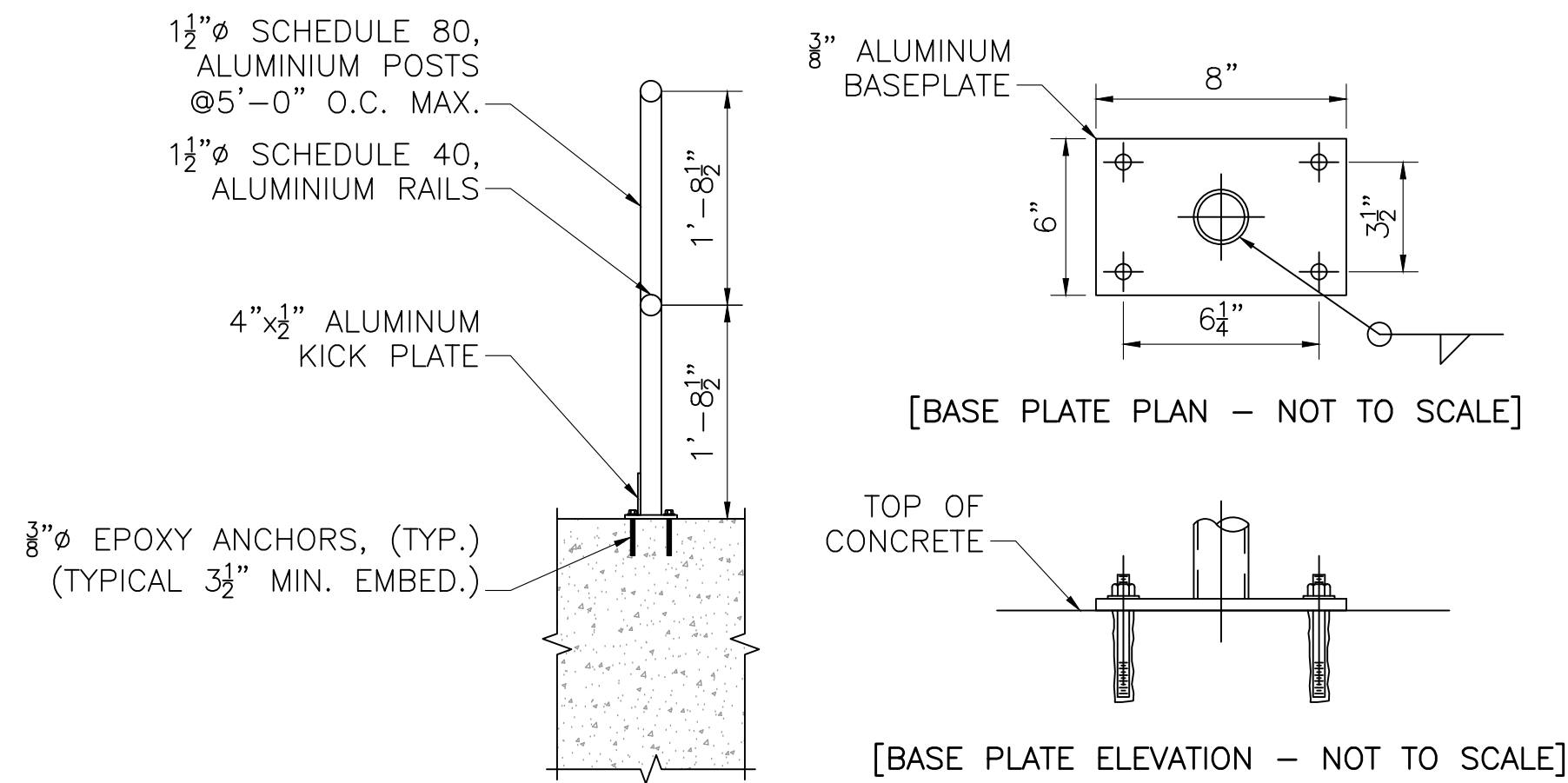
1. FASTEN RAIL TERMINAL TO WALL BRACKET PER MFR'S RECOMMENDATIONS.
2. WALL FLANGE TO BE MOUNTED TO WALL W/ (2)-3/8 inch S.S. EPOXY ANCHORS.

TWO-BAR HANDRAIL

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

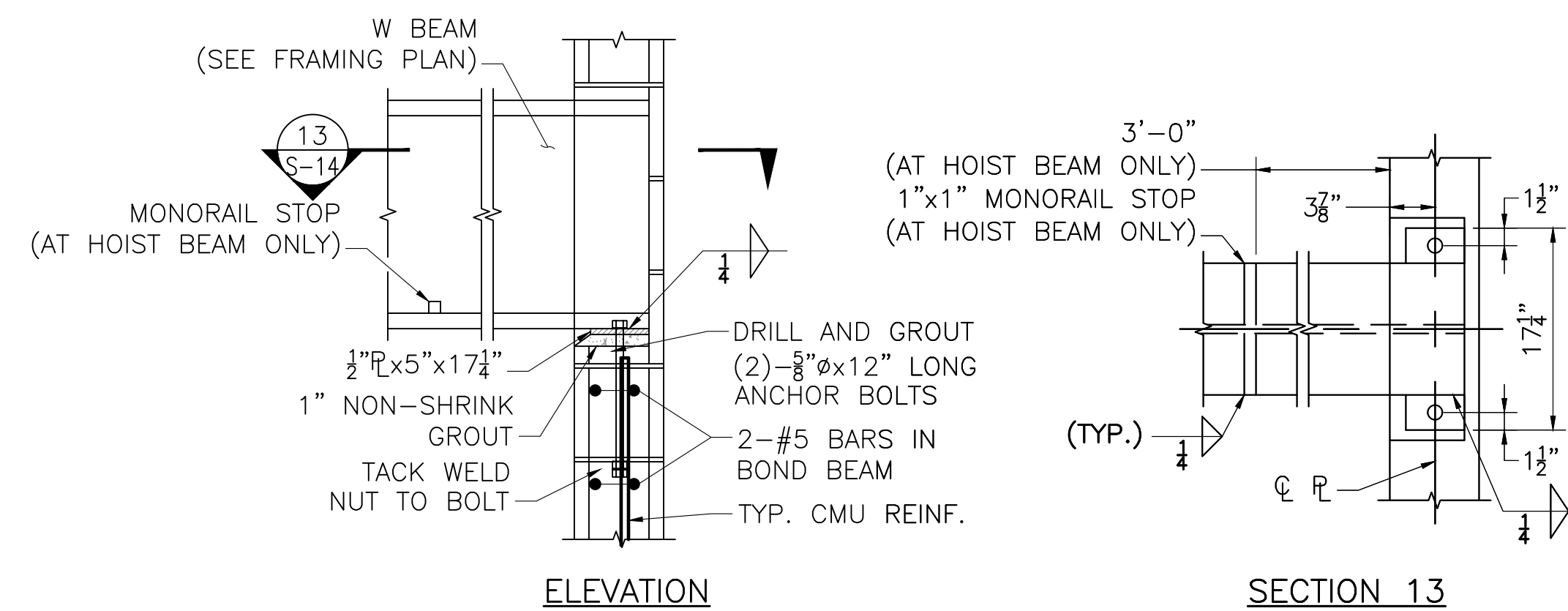


DETAIL B
SCALE: 1"=1'-0"

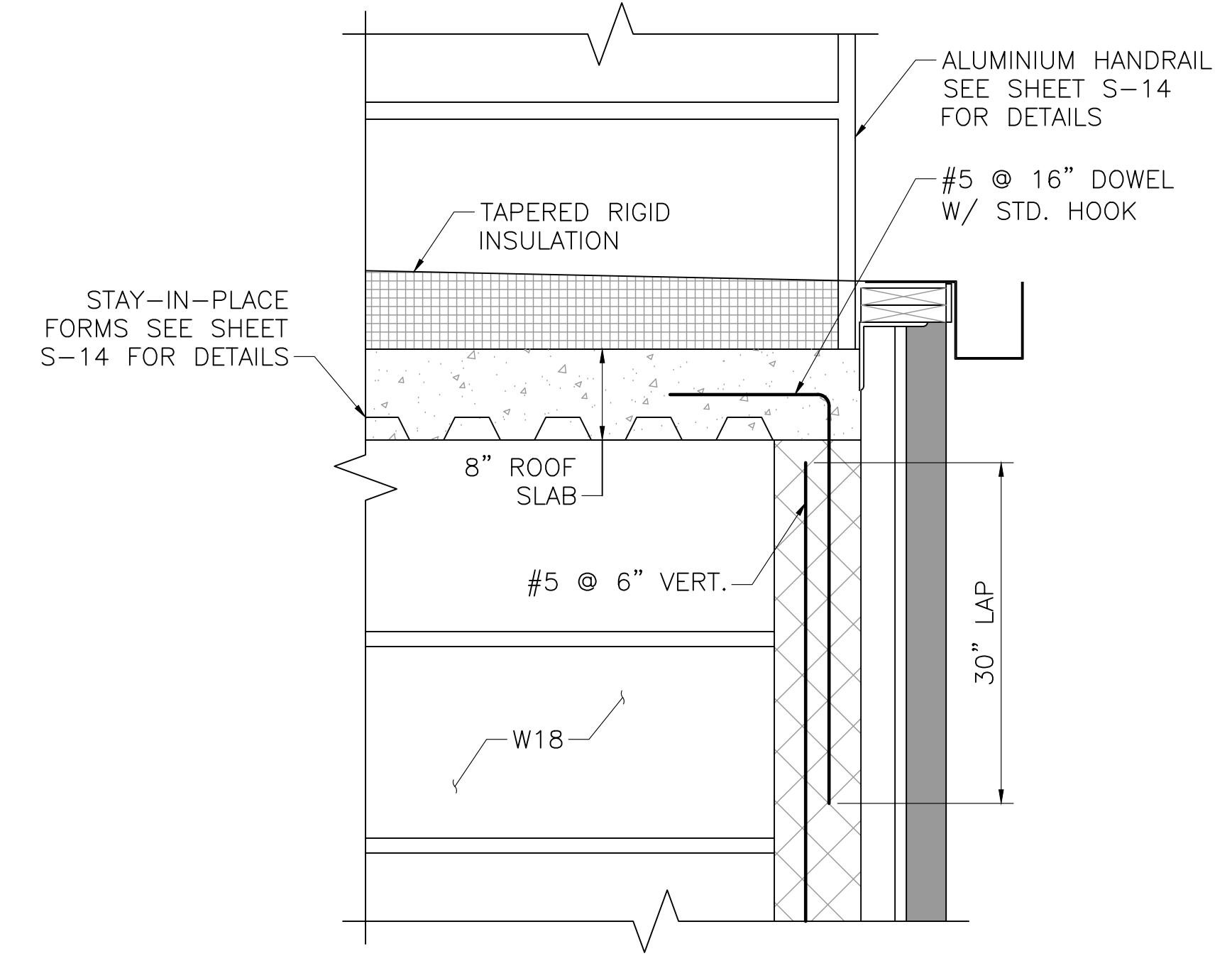


TOP MOUNTED HANDRAIL DETAIL

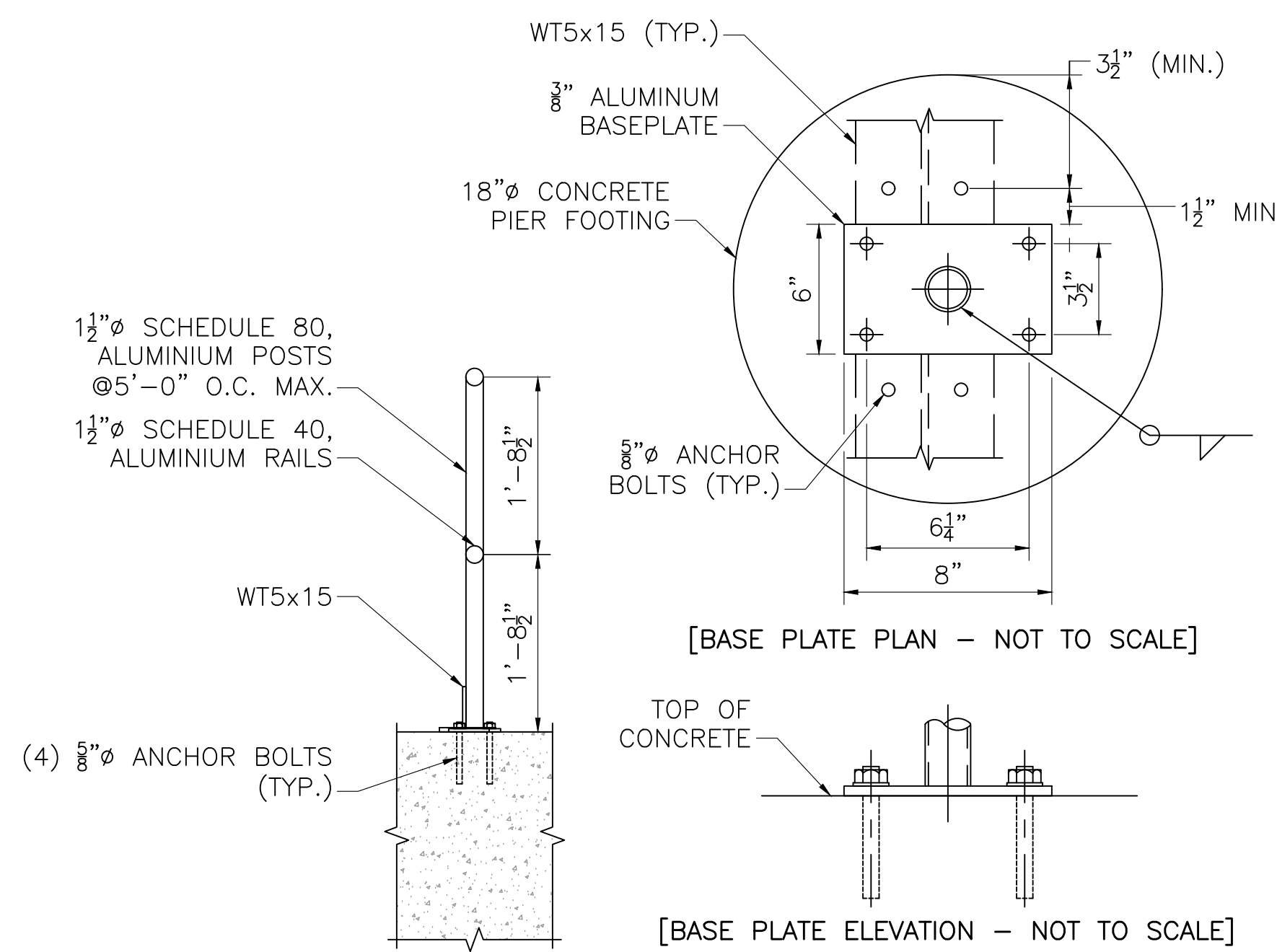
SCALE: 3/4" = 1'-0"



DETAIL C
NOT TO SCALE



DETAIL D
SCALE: 1" = 1'-0"

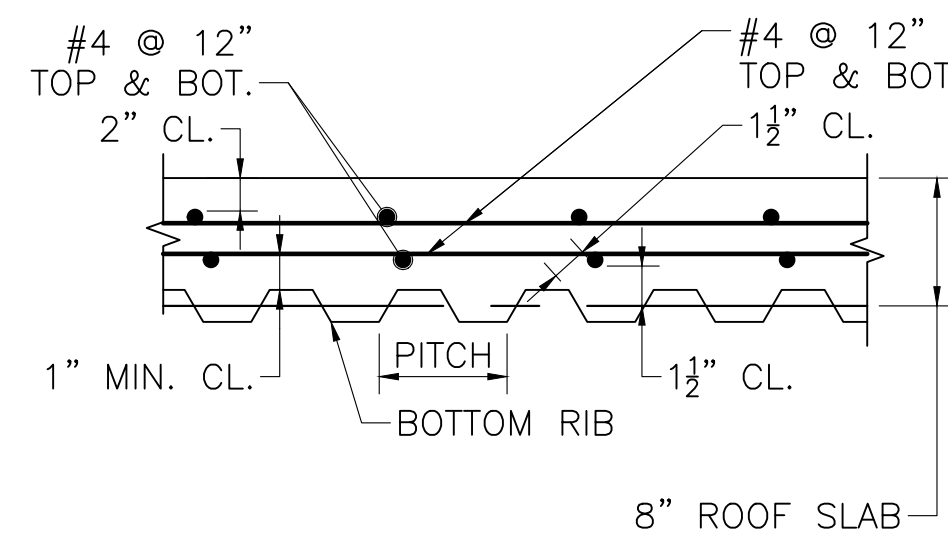


TOP MOUNTED HANDRAIL DETAIL - GENERATOR PAD

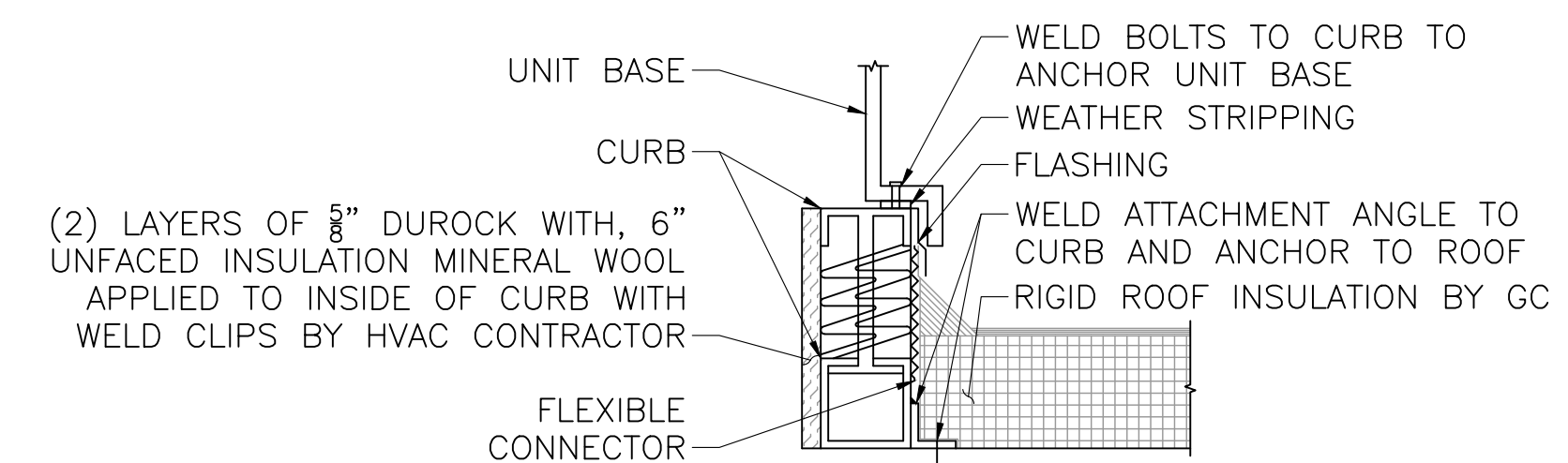
SCALE: 3/4" = 1'-0"

NOTE:

1. CUT HOLES IN GRATING AS REQUIRED TO ACCOUNT FOR ANCHOR BOLTS.



STAY-IN-PLACE FORM DETAILS
NOT TO SCALE



AIR HANDLING UNIT ANCHORAGE
SCALE: 1" = 1'-0"

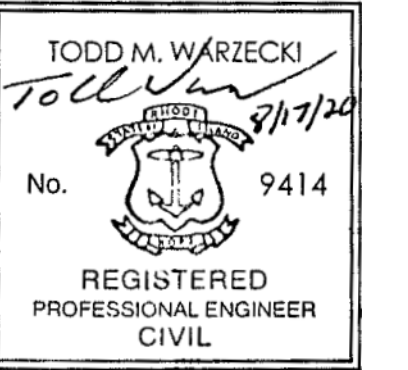
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PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

**MISCELLANEOUS
DETAILS**

| NO. | REVISIONS | DATE |
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|---------------|-----------|
| DRAWN BY: | BWN |
| DESIGNED BY: | TMW |
| CHECKED BY: | CWJ |
| ISSUE DATE: | 3/31/2022 |
| BETA JOB NO.: | 5530 |

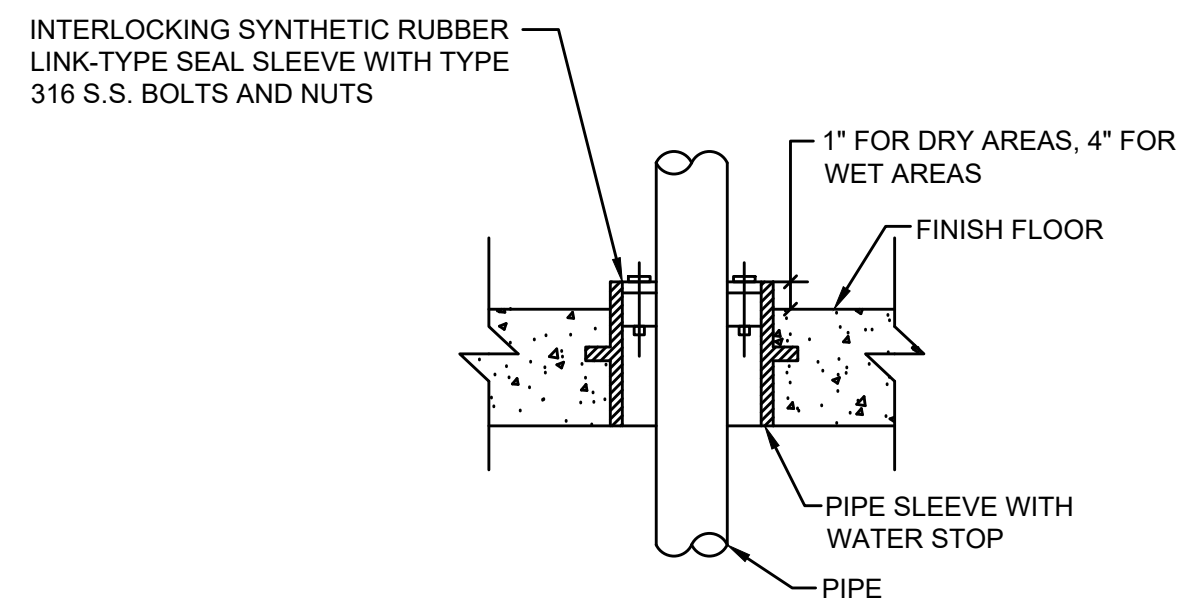
SCALE

AS SHOWN

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SHEET NO. S-14

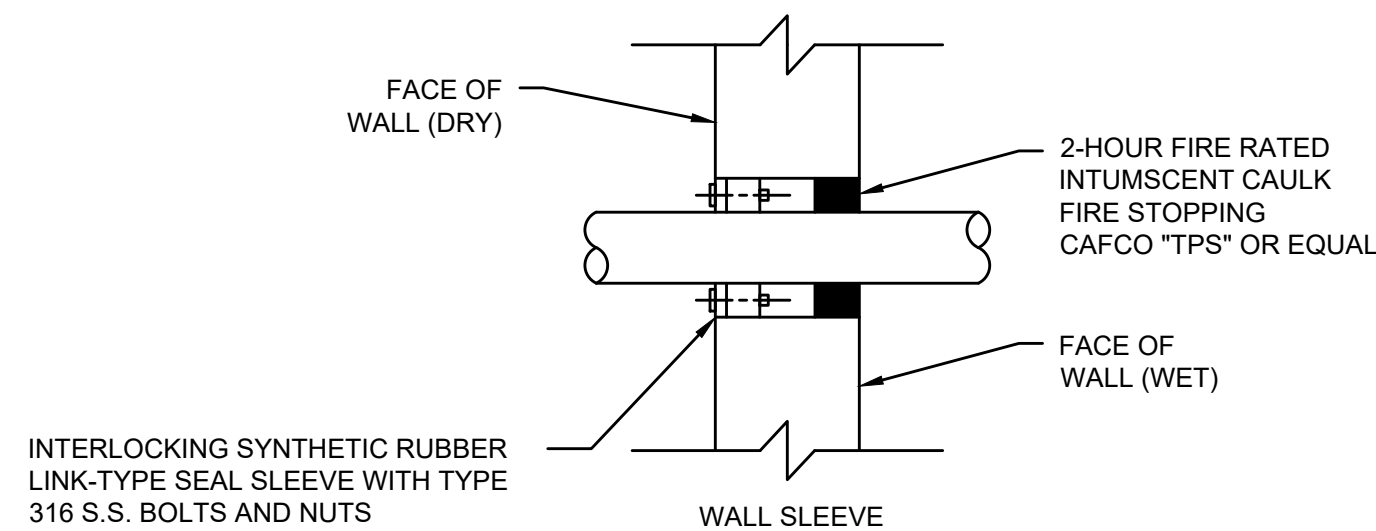
3/28/2022 11:01 AM - J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT CONTRACT DETAILS - MECHANICAL.DWG



NOTE: FOR FLOOR SLEEVES, WHERE GASTIGHT OR WATERTIGHT SEALS ARE NOT REQUIRED, THE SEAL MAY BE OMITTED

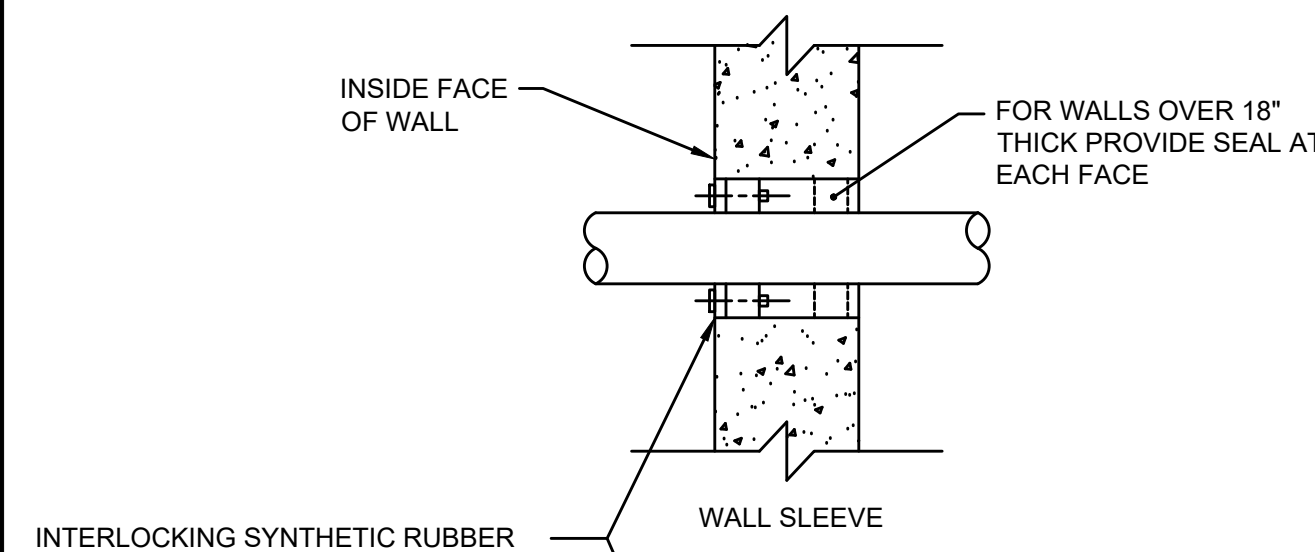
FLOOR SLEEVE/NEW CONCRETE

SCALE: NOT TO SCALE



PENETRATION FOR CORED HOLES IN EXISTING WALLS INTO WET AREAS

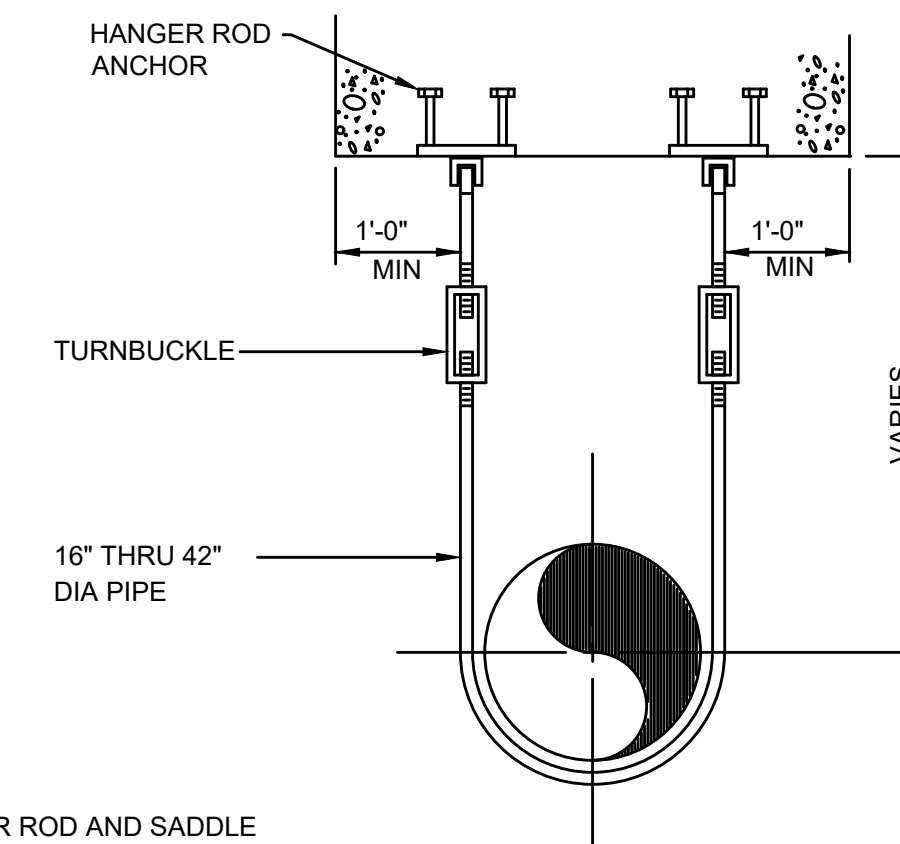
SCALE: NOT TO SCALE



INTERLOCKING SYNTHETIC RUBBER LINK-TYPE SEAL SLEEVE WITH TYPE 316 S.S. BOLTS AND NUTS

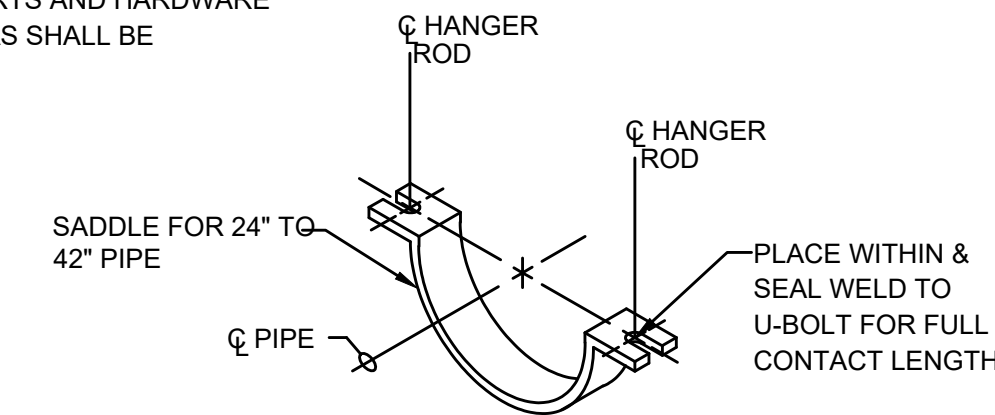
PENETRATION FOR CORED HOLES IN EXISTING WALLS AND DRY AREAS

SCALE: NOT TO SCALE



NOTES:

- HANGER ROD AND SADDLE MATERIAL TO BE STAINLESS STEEL FOR STAINLESS STEEL PIPE
- SPACE HANGERS 12'-0" ON CENTER MAXIMUM.
- PIPE SUPPORTS AND HARDWARE IN WET AREAS SHALL BE 316 S.S.

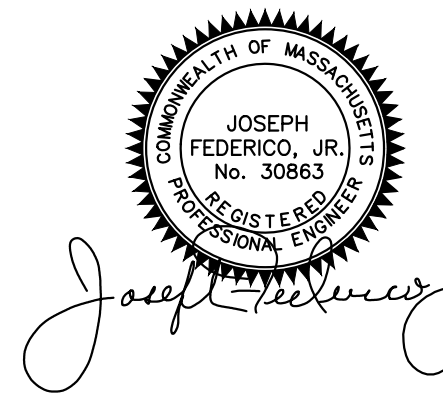


PIPE HANGER

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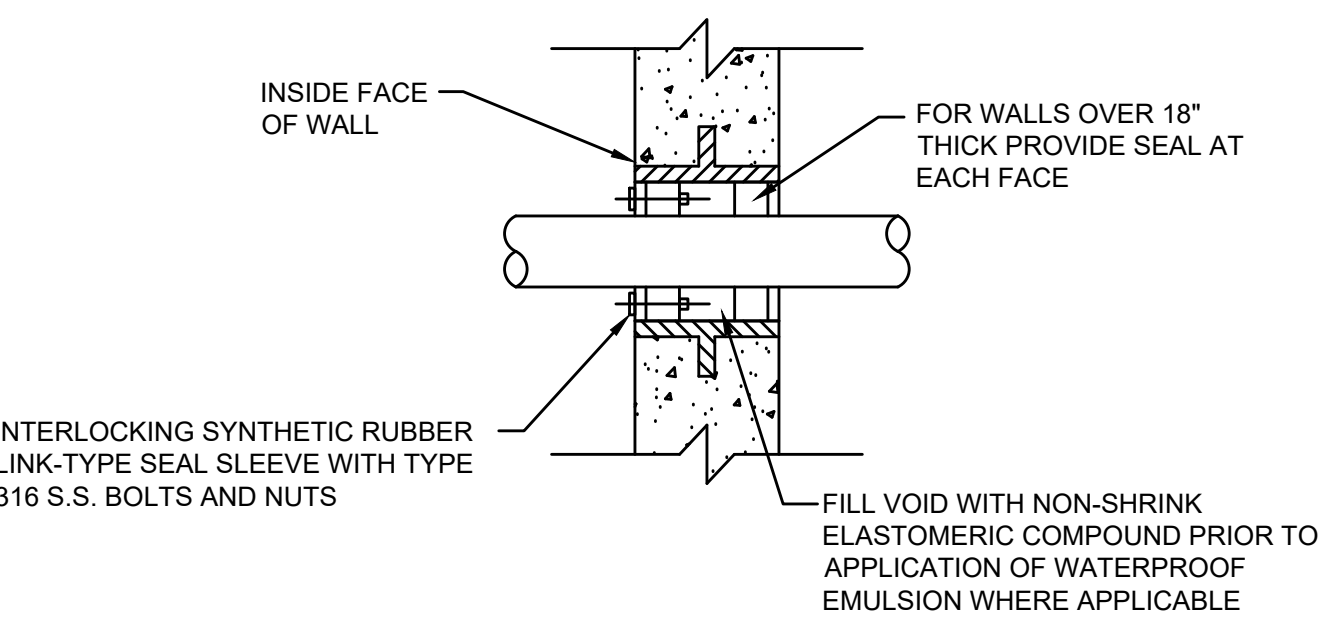
PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

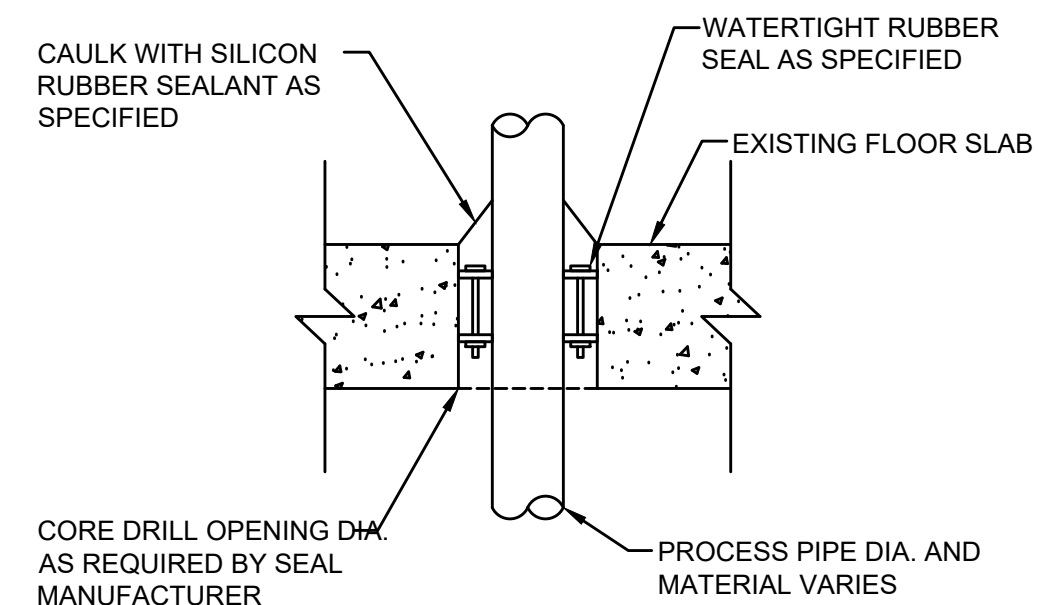
TITLE

MECHANICAL DETAILS I



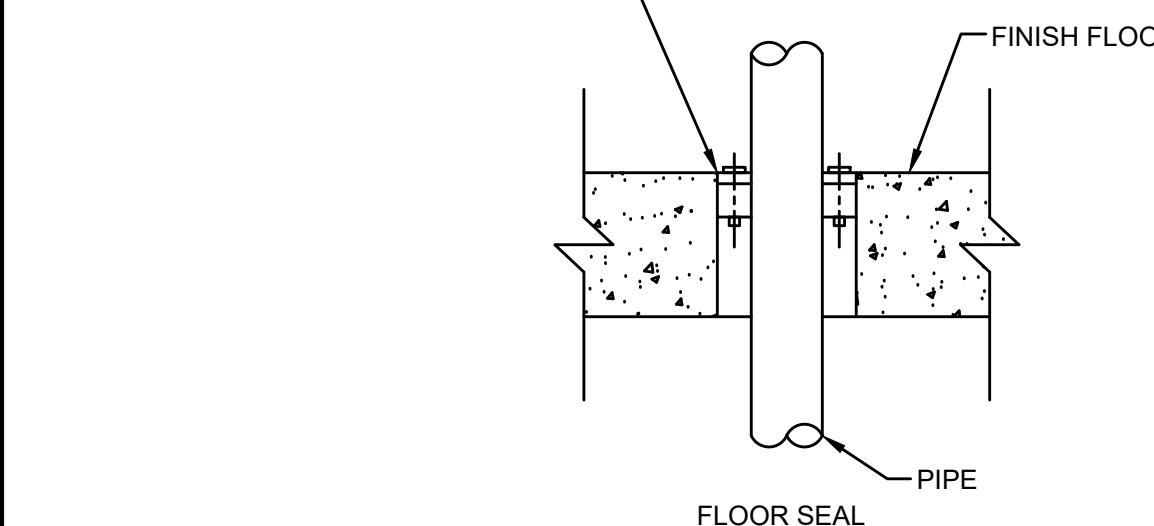
WALL SLEEVE/NEW CONCRETE

SCALE: NOT TO SCALE



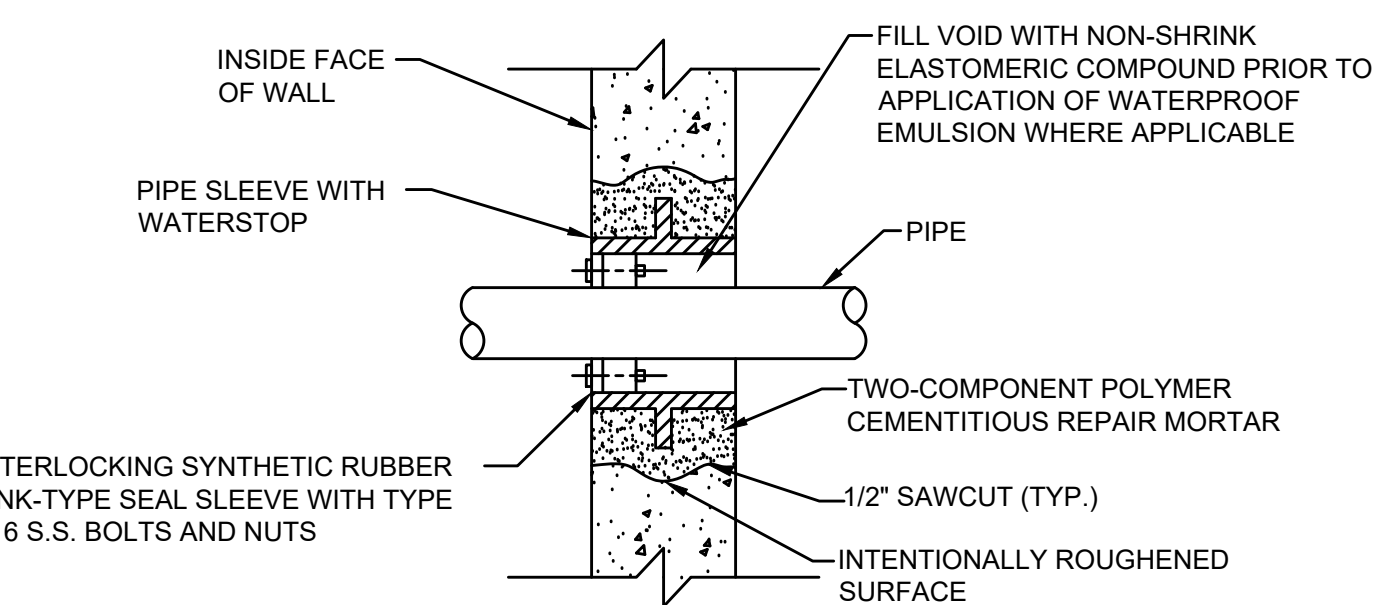
FLOOR PENETRATION FOR CORED HOLES IN WET AREAS

SCALE: NOT TO SCALE



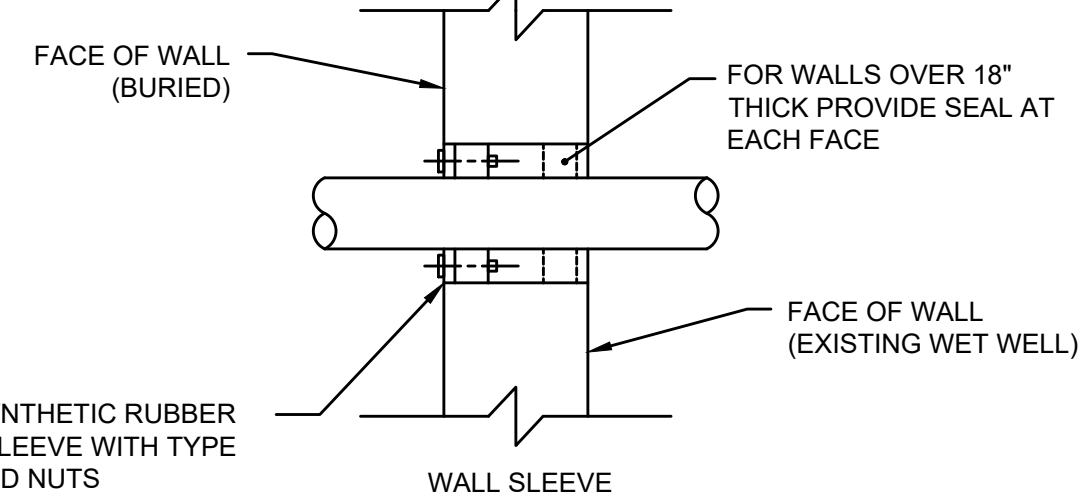
PENETRATION FOR CORED HOLES IN EXISTING WALLS AND DRY AREAS

SCALE: NOT TO SCALE



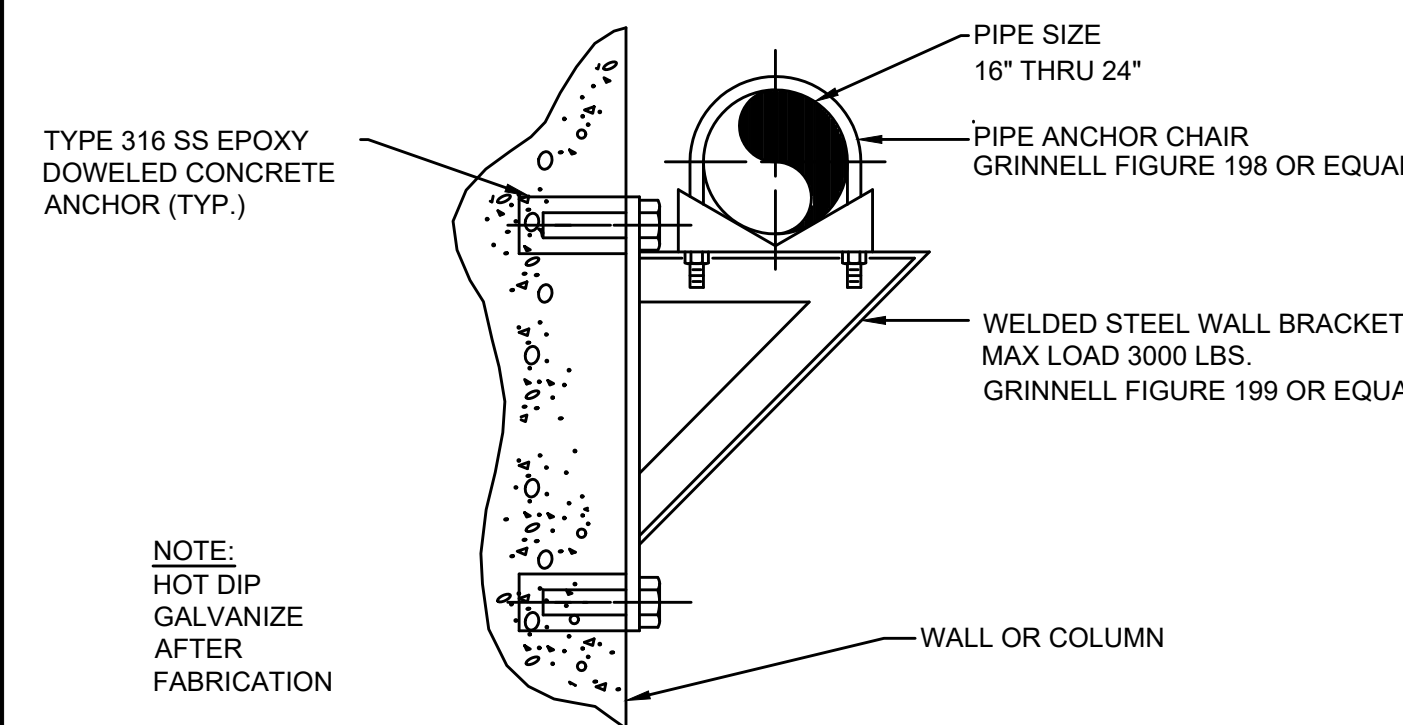
WALL SLEEVE/EXISTING WALL

SCALE: NOT TO SCALE



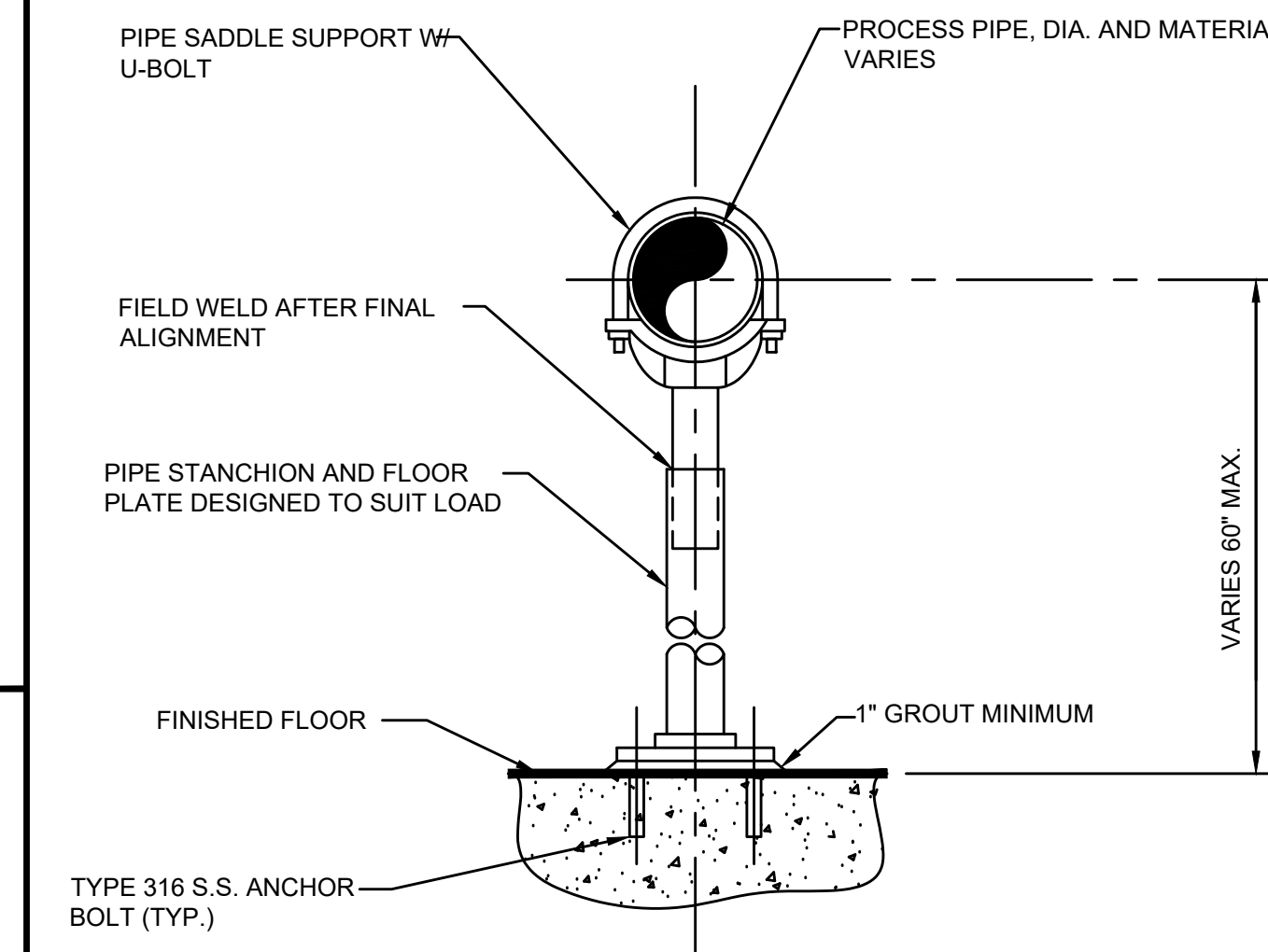
PENETRATION FOR CORED HOLES IN EXISTING WALLS INTO EXISTING WET WELL

SCALE: NOT TO SCALE



PIPE SUPPORT-HEAVY

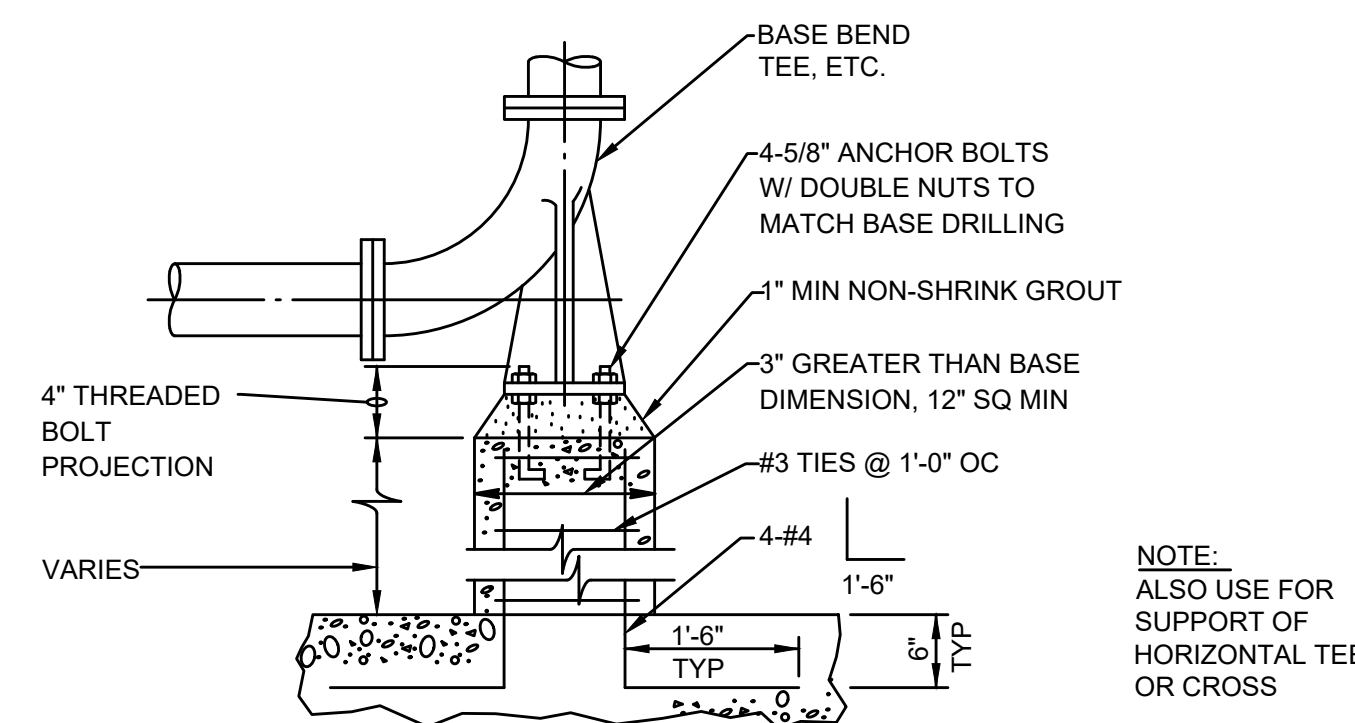
SCALE: NOT TO SCALE



- NOTES:
- PROVIDE HALF-ROUND RIGID INSULATION WAND INSULATION SHIELD FOR INSULATED PIPING.
 - PROVIDE NEOPRENE ISOLATION PAD UNDER SUPPORT FOOT FOR ISOLATED PIPING OR WHEN SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.
 - PIPE SUPPORTS AND HARDWARE IN WET AREAS SHALL BE 316 S.S.

FLOOR PIPE SUPPORT

SCALE: NOT TO SCALE



NOTE: ALSO USE FOR SUPPORT OF HORIZONTAL TEE OR CROSS

BASE BEND

SCALE: NOT TO SCALE

NO. REVISIONS DATE

DRAWN BY: BM

DESIGNED BY: A/J

CHECKED BY: CC

ISSUE DATE: 3/31/2022

BETA JOB NO.: 5530

SCALE

AS SHOWN

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SHEET NO. MD-1

1/21/2022 10:14 AM W:\YEAR_2017\7003_00 - TAUNTON MAIN LIFT PUMP STATION\HVAC DEPARTMENT\7003_00 HVAC PLAN.DWG

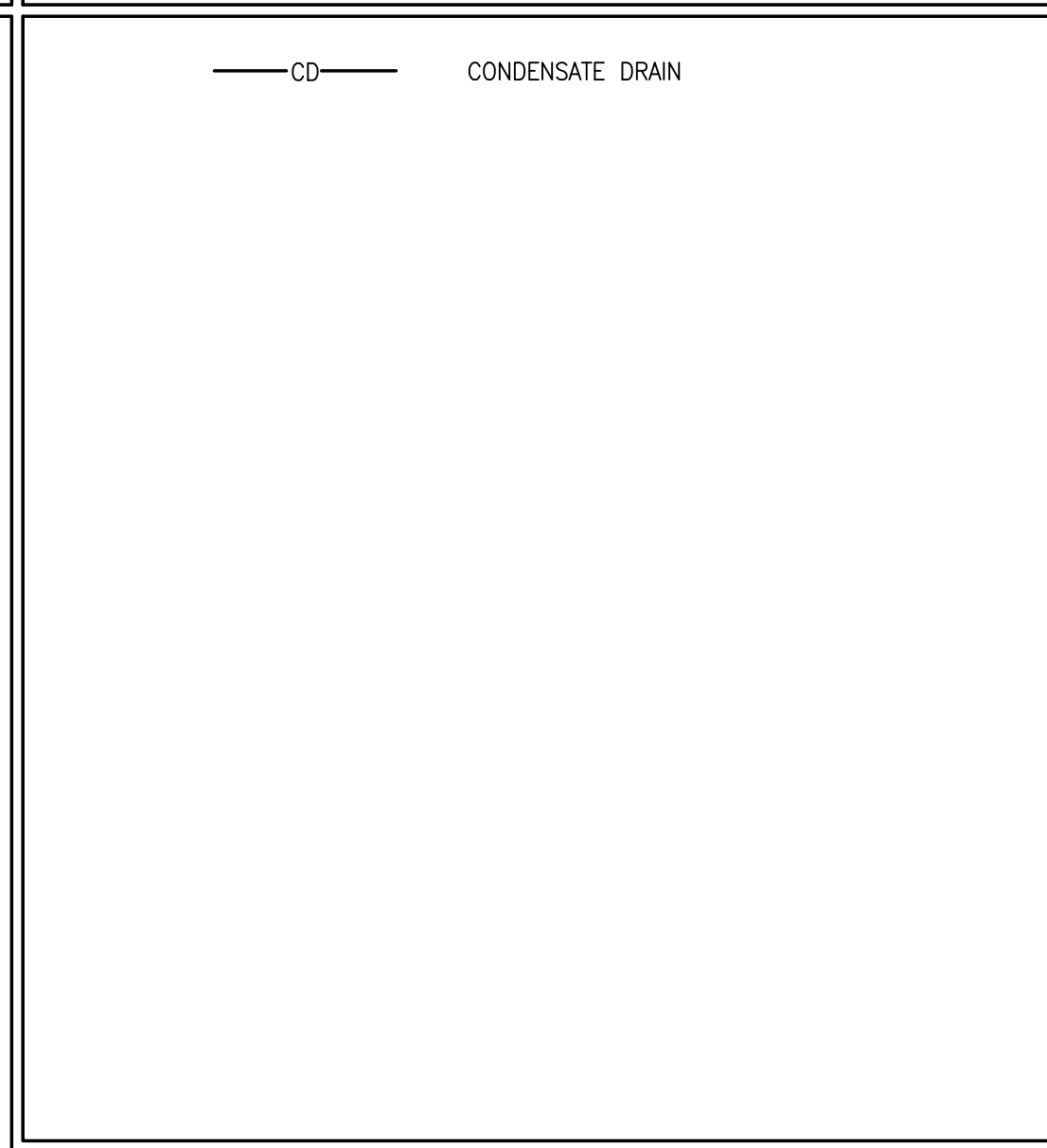
GENERAL NOTES

- 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.
2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.
3. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH STATE CODES, MANUFACTURER'S APPROVED PUBLISHED LITERATURE, AND AUTHORITIES HAVING JURISDICTION.
4. INSTALLATION OF EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/ OR REPLACEMENT.
5. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
6. HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.
7. ALL DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.
8. 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.
9. PROVIDE INSTRUMENT TEST HOLES WITH CAPS IN AIR DISTRIBUTION SYSTEMS AS REQUIRED TO BALANCE SYSTEM.
10. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHEETMETAL TRANSITIONS AT AIR TERMINAL UNITS, FANS, COILS, AND OTHER SIMILAR HVAC EQUIPMENT.
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.
12. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATION SHALL BE PROVIDED BY HVAC SUBCONTRACTOR.
13. EXACT LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS TO BE DETERMINED BY ARCHITECTURAL REFLECTED CEILING PLAN.
14. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.
15. EXACT ELEVATION FOR SIDE WALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
16. UNLESS OTHERWISE NOTED, ALL PIPING RUNOUTS SHALL BE 3/4"
17. ALL EXPOSED EQUIPMENT (REGISTERS, UNIT HEATERS, ETC..) SHALL HAVE COLORS SELECTED BY THE ARCHITECT, UNLESS NOTED OTHERWISE.
18. HVAC SUBCONTRACTOR SHALL BLANK OFF AND INSULATE ALL UNUSED LOUVER AREA.
19. PITCH AIR INTAKE PLENUMS AND PROVIDE DRAIN TO NEAREST FLOOR DRAIN.
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.
21. EXACT LOCATION OF THERMOSTAT TO BE COORDINATED WITH FINAL LOCATION OF WALL MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT.
22. PROVIDE FLEXIBLE CONNECTOR ON INTAKES AND DISCHARGES OF ALL AIR HANDLING UNITS.
23. ROOF OPENINGS SHALL BE SIZED FROM APPROVED SHOP DRAWINGS.
24. ALL DAMPER MOTORS SHALL BE 24 VOLT.

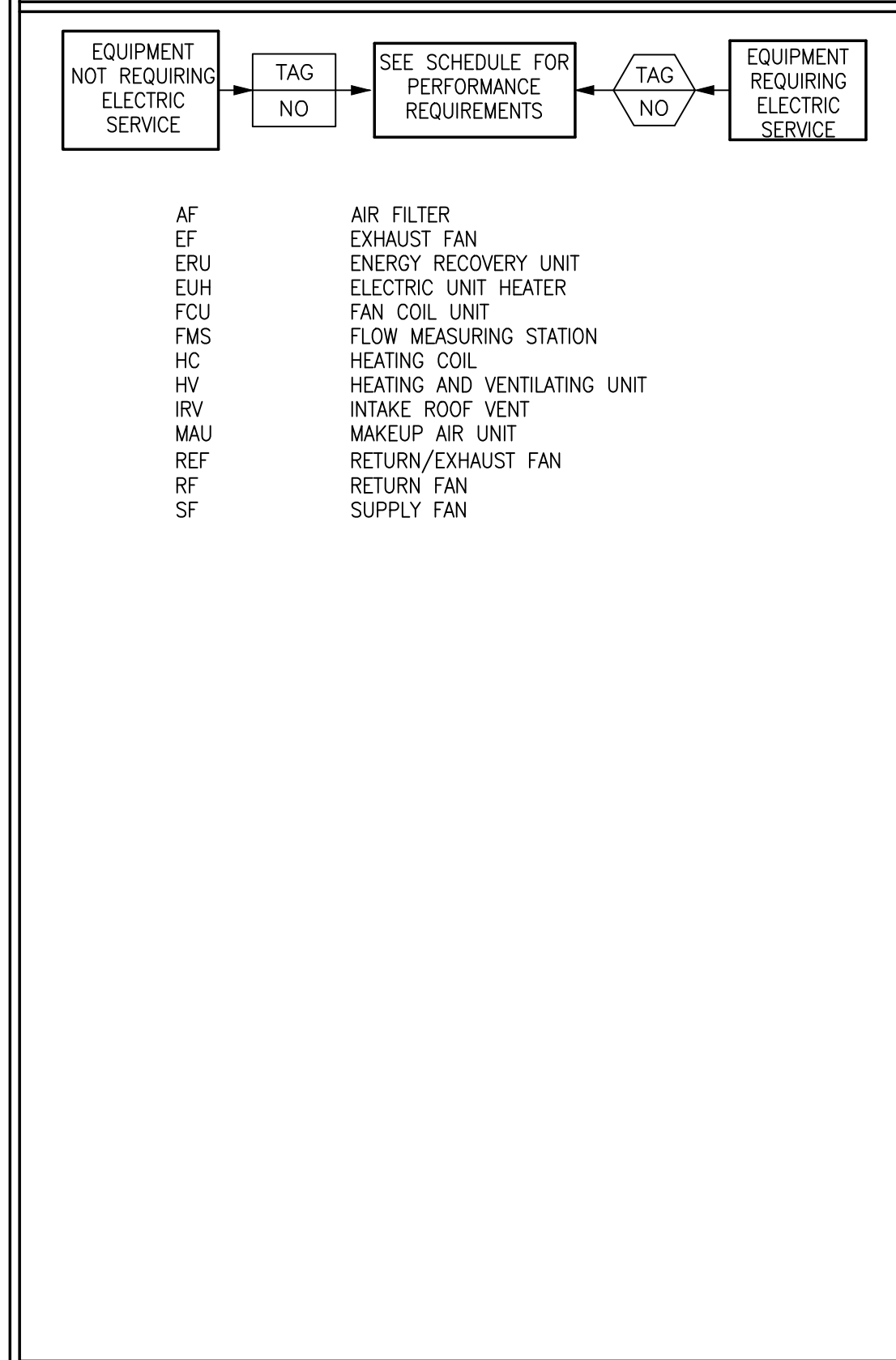
ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like ACD (AUTOMATIC CONTROL DAMPER), AD (ACCESS DOOR), AFF (ABOVE FINISHED FLOOR), AHAP (AS HIGH AS POSSIBLE), AF (ACCESS PANEL), ARCH (ARCHITECT), ATC (AUTOMATIC TEMPERATURE CONTROL), BDD (BACKDRAFT DAMPER), BTU (BRITISH THERMAL UNIT), BTUH (BRITISH THERMAL UNIT PER HOUR), BOD (BOTTOM OF DUCT), CAP (CAPACITY), CD (CEILING DIFFUSER), CFM (CUBIC FEET PER MINUTE), CO (CLEANOUT), CONT (CONTROLLER), CUT AND CAP (CUT AND CAP), DIA (DIAMETER), DB (DRY BULB TEMPERATURE), DC (DUST COLLECTOR), DDC (DIRECT DIGITAL CONTROL), DN (DOWN), DWG (DRAWING), DX (DIRECT EXPANSION COOLING), EA (EXHAUST AIR), EAT (ENTERING AIR TEMPERATURE), EBB (ELECTRIC BASEBOARD RADIATION), ECH (ELECTRIC CABINET HEATER), ECON (AIR-SIDE ECONOMIZER), EF (EXHAUST FAN), EFF (EFFICIENCY), ELV (ELEVATION), ER (EXHAUST REGISTER), ESP (EXTERNAL STATIC PRESSURE), ETR (EXISTING TO REMAIN), EWT (ENTERING WATER TEMPERATURE), EXH (EXHAUST), FA (FREE AREA), FD (FIRE DAMPER), FLA (FULL LOAD AMPS), FOB (FLAT ON BOTTOM), FOT (FLAT ON TOP), FPI (FINS PER INCH), FPM (FEET PER MINUTE), FT (FEET), FTR (FINNED TUBE RADIATION), GAL (GALLONS), GALV (GALVANIZED), GC (GENERAL CONTRACTOR), GF (GLYCOL FEED), GPM (GALLONS PER MINUTE), HP (HORSEPOWER), HVAC (HEATING, VENTILATING AND AIR CONDITIONING), HGRH (HOT GAS REHEAT), HW (HOT WATER), HZ (HERTZ), IN (INCHES), KE (KITCHEN EXHAUST), KW (KILOWATTS), LAT (LEAVING AIR TEMPERATURE), LD (LINEAR DIFFUSER), LF (LINEAR FEET), LWT (LEAVING WATER TEMPERATURE), MBH (THOUSANDS OF BTU'S PER HOUR), MCC (MOTOR CONTROL CENTER), NC (NORMALLY CLOSED), NIC (NOT IN CONTRACT), NO (NORMALLY OPEN), NTS (NOT TO SCALE), OA (OUTSIDE AIR), OAT (OUTSIDE AIR TEMPERATURE), OBD (OPPOSED BLADE DAMPER), OD (OUTSIDE DIAMETER), OED (OPEN ENDED DUCT), POS (PROVIDED UNDER OTHER SECTIONS), PSI (POUNDS PER SQUARE INCH (GAUGE)), PD (PRESSURE DROP), PRV (PRESSURE REDUCING VALVE), PG (PROPYLENE GLYCOL), R (RETURN), RA (RETURN AIR), RB (REBALANCE), RF (RETURN/EXHAUST FAN), RG (RETURN GRILLE), RM (ROOM), RPM (REVOLUTIONS PER MINUTE), RR (RETURN REGISTER), S (SUPPLY), SA (SUPPLY AIR), SAT (SUPPLY AIR TEMPERATURE), SF (SQUARE FEET, SUPPLY FAN), SP (STATIC PRESSURE), SR (SUPPLY REGISTER), SS (STAINLESS STEEL), STL (STEEL), TYP (TYPICAL), UC (UNDERCUT DOOR), V (VOLTS), VAV (VARIABLE AIR VOLUME), VD (VOLUME DAMPER), VFD (VARIABLE FREQUENCY DRIVE), W/ (WITH), W/O (WITHOUT), WB (WET BULB TEMPERATURE), WG (WATER GAUGE), WMS (WIRE MESH SCREEN).

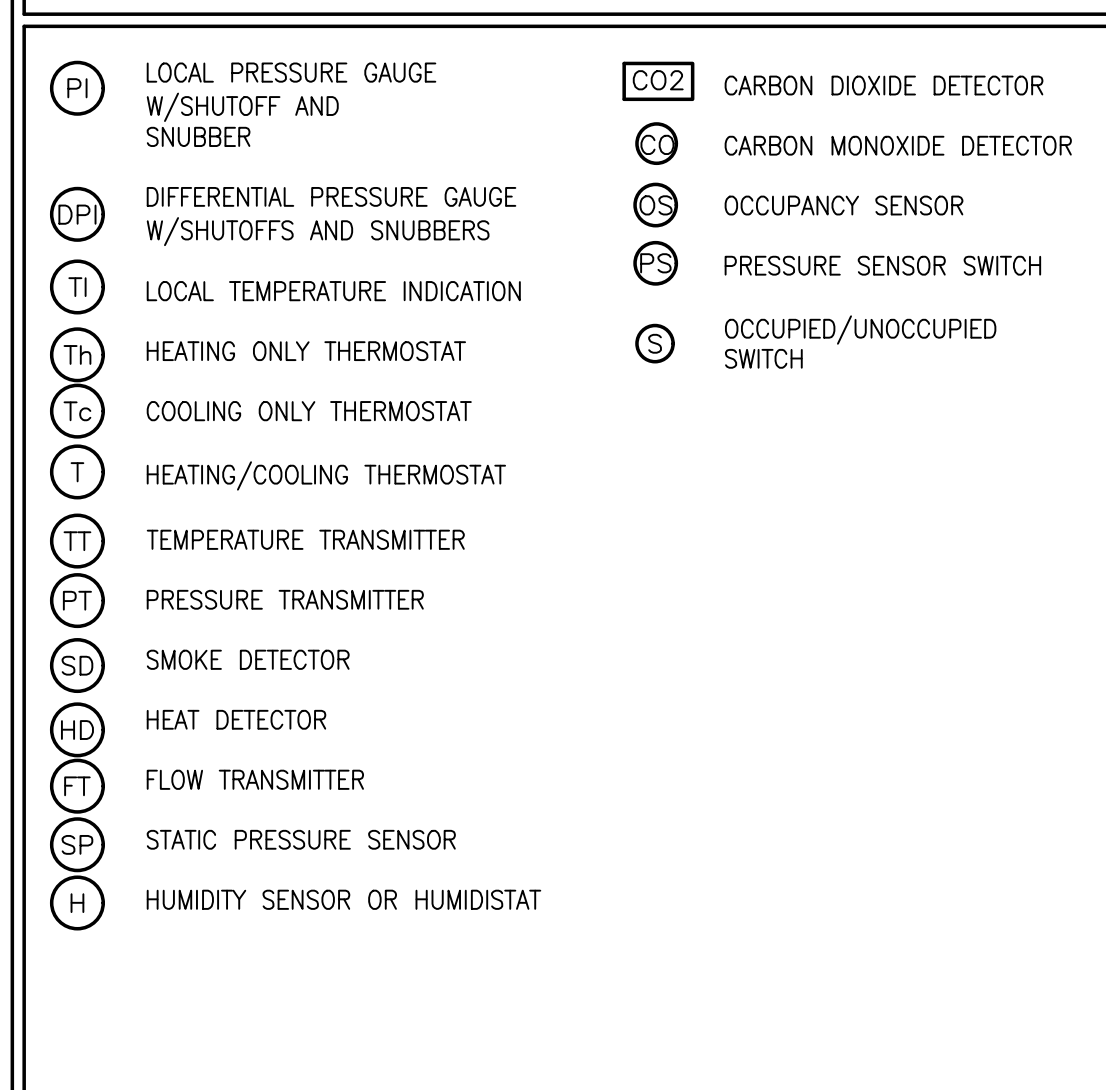
PIPING LEGEND



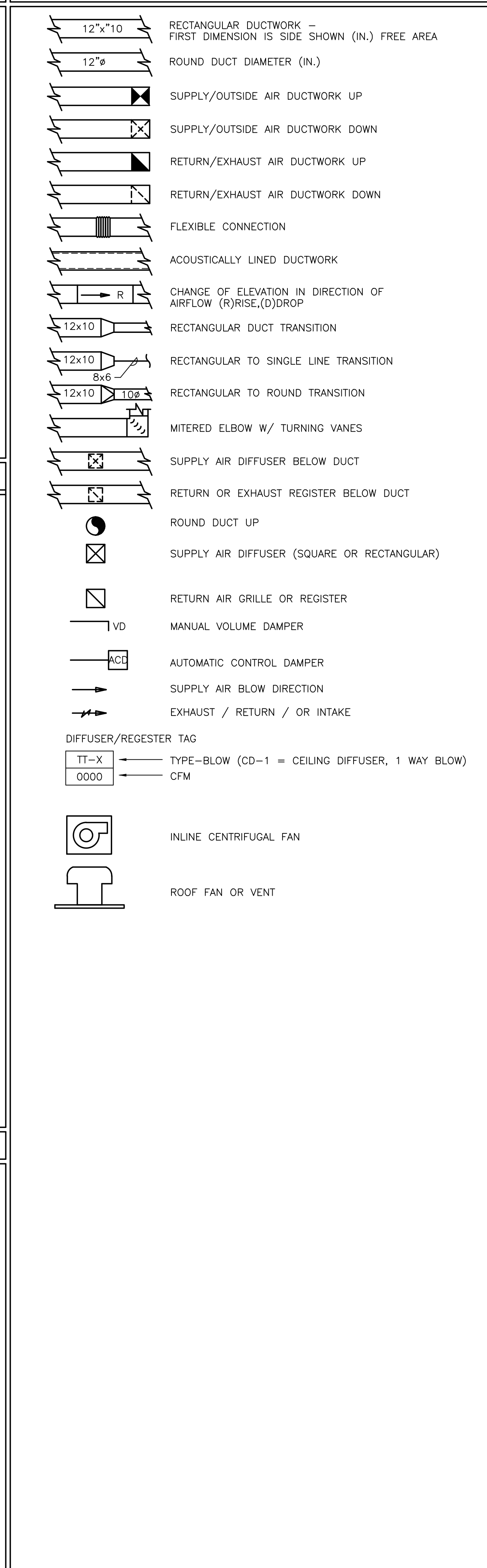
EQUIPMENT TAG SYMBOLS & ABBREVIATIONS



INSTRUMENTATION



DUCTWORK LEGEND/SYMBOLS



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.
3. DEHUMIDIFIER: DEHUMIDIFIER SHALL CYCLE FROM INTERNAL HUMIDISTAT TO MAINTAIN A SPACE RELATIVE HUMIDITY OF 40%.
4. HEAT PUMP: HEAT PUMP SHALL CYCLE FROM A WALL MOUNTED PROGRAMMABLE THERMOSTAT TO MAINTAIN ROOM SETPOINTS OF 65°F AND 85°F COOLING

PREPARED BY



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PROJECT

MAIN LIFT PUMP STATION
TAUNTON, MA

TITLE

HVAC LEGEND & GENERAL NOTES

Table with 3 columns: NO., REVISIONS, DATE. Contains a grid for tracking revisions.

DRAWN BY: RLB
DESIGNED BY: RHB
CHECKED BY: RHB
ISSUE DATE: 03/31/22
BETA JOB NO.: 5530-000

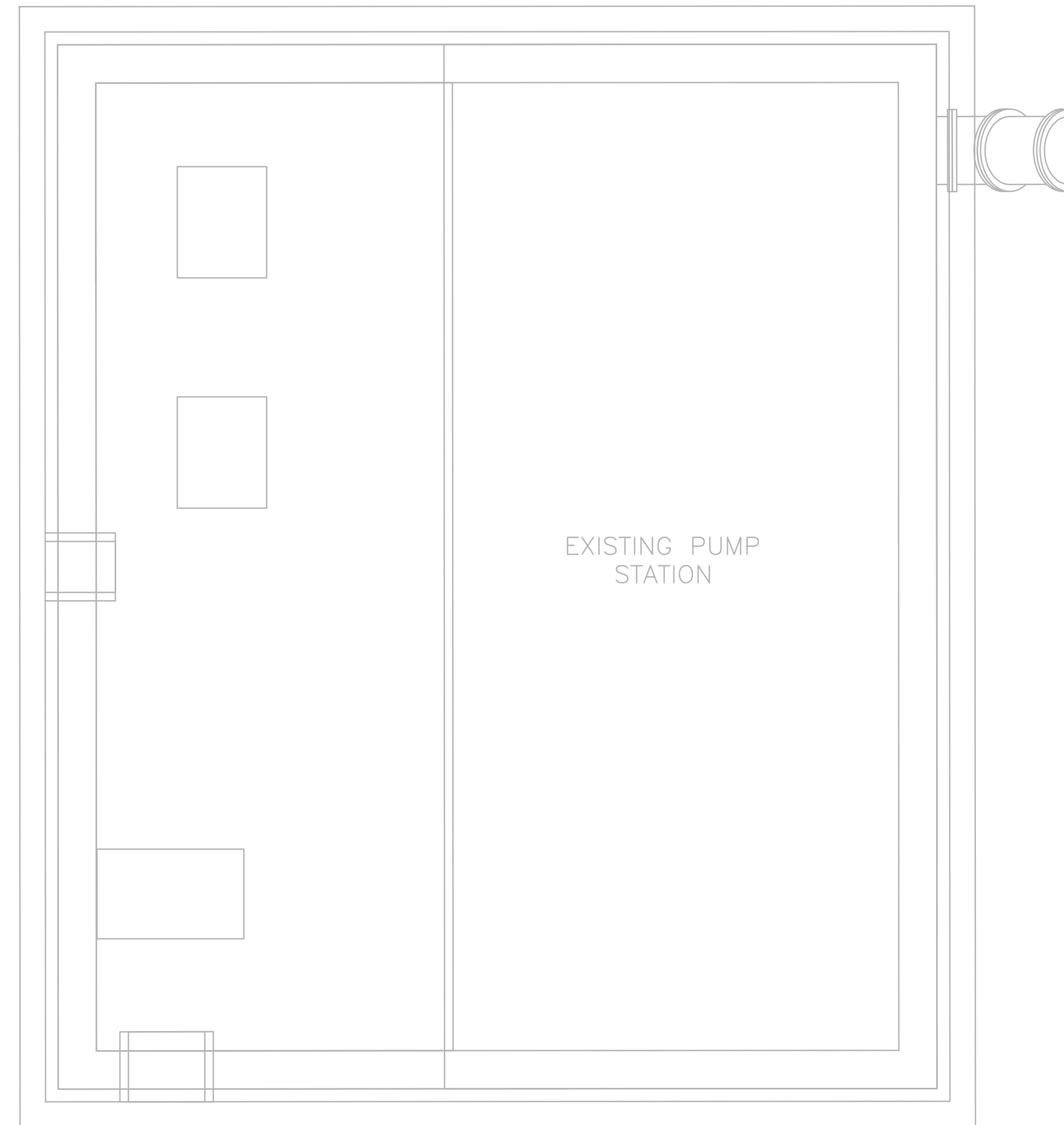
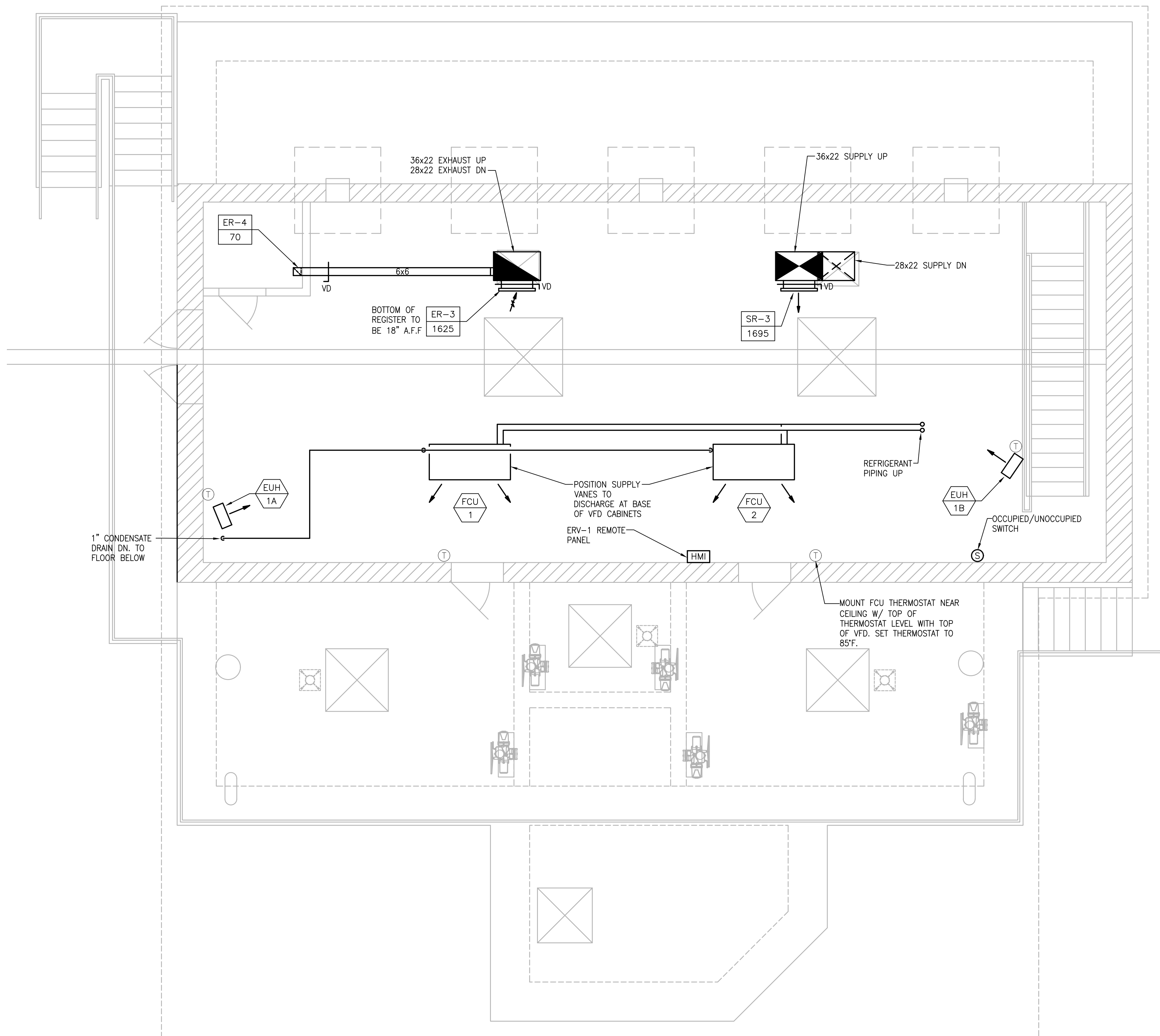
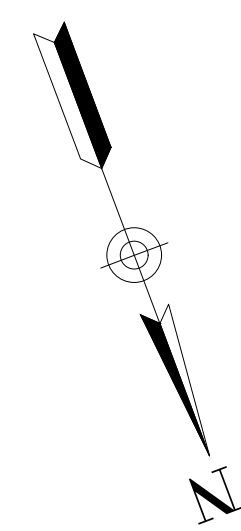
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SHEET NO. H-1

1/21/2022 10:14 AM W:\YEAR - 2017\7003.00 - TAUNTON MAIN LIFT PUMP STATION\HVAC DEPARTMENT\7003.00 HVAC PLAN.DWG

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



PREPARED BY



REGISTERED PROFESSIONAL



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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**HVAC
GROUND
LEVEL PLAN**

NO. REVISIONS DATE

DRAWN BY: RLB
DESIGNED BY: RHB
CHECKED BY: RHB
ISSUE DATE: 03/31/22
BETA JOB NO.: 5530-000

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SHEET NO. **H-4**

PLUMBING FIXTURE SCHEDULE

| DESIGNATION | FIXTURE DESCRIPTION | CONNECTION SIZE | | | | REMARKS |
|-------------|--------------------------|-----------------|------|-----|----|---------|
| | | CW | HW | S/W | V | |
| P-1 | WATER CLOSET - WALL HUNG | 1" | - | 4" | 2" | - |
| 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.
 4. 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 ASSEMBLE AND INSTALL ALL PLUMBING RELATED ITEMS INCLUDING TRIM, FAUCETS, BUBBLERS, SINK WASTE, TAIL PIECES, TRAPS AND EXTENSIONS.

ELECTRIC WATER HEATER SCHEDULE

| I.D. | MANUFACTURER | MODEL | GALS. | RECOVERY | | KW | VOLTS | PHASE | HZ | REMARKS |
|------|--------------|---------|-------|----------|---------|----|-------|-------|----|---------|
| | | | | G.P.H. | Δ TEMP. | | | | | |
| EW-1 | RHEEM | EGSP-10 | 10 | 12 | 100 | 3 | 480 | 1 | - | - |

SHOCK ABSORBER SCHEDULE

| PDI RATING SYMBOL | A | B | C | D | E |
|--------------------------------------|---------|---------|---------|---------|---------|
| PRECISION PLUMBING PRODUCTS OR EQUAL | SC-500 | SC-750 | SC-1000 | SC-1250 | SC-1500 |
| WATTS REGULATOR COMPANY OR EQUAL | 0750030 | 0750053 | 0750060 | 0750070 | 0750090 |
| WADE OR EQUAL | 5-P | 10-P | 20-P | 50-P | 75-P |

* MANUFACTURERS NAMES AND MODEL NUMBERS ARE SHOWN ONLY TO REPRESENT TYPE, STYLE AND LEVEL OF QUALITY EXPECTED, SIMILAR EQUALS BY OTHER SPECIFIED MANUFACTURERS WILL BE ACCEPTABLE.

DRAIN SCHEDULE*

| SYMBOL | TYPE | MANUFACTURER | MODEL | OUTLET | STRAINER | REMARKS |
|--------|------|--------------|-------------|--------|-----------|-------------------------------|
| A | FD | J.R. SMITH | 2005-A-P | CAULK | NICK-BRZ | FINISHED AREAS |
| B | 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.

PLUMBING NOTES

- THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE PLUMBING SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT.
- ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE PLUMBING SUB-CONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDING CODE, LOCAL FUEL GAS AND PLUMBING CODES, ALL LOCAL CODES AND REGULATIONS, NATIONAL FIRE PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
- ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
- ALL PRODUCTS USED AS PART OF THE POTABLE WATER SYSTEM WHERE THE INTENDED PURPOSE IS TO DELIVER OR CONVEY POTABLE WATER FOR HUMAN CONSUMPTION SHALL BE LEAD FREE AND CONFORM TO THE LATEST "LEAD FREE" LAW.
- WHERE WATER PIPING IS SHOWN DROPPING INTO PLUMBING CHASES WITH SIZES NOTED, THAT SIZE SHALL BE CARRIED FULL LENGTH THROUGH THE CHASE. REFER TO PLUMBING FIXTURE SCHEDULE ON THIS DRAWING FOR INDIVIDUAL FIXTURE CONNECTION SIZES.
- UNLESS OTHERWISE NOTED, ALL HORIZONTAL DRAINAGE PIPING WHICH IS 3" OR LESS IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/4" PER FOOT AND ALL HORIZONTAL DRAINAGE PIPING WHICH IS 4" OR LARGER IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/8" PER FOOT.
- PROVIDE ALL FLOOR CLEANOUTS WITH HUB AND SPIGOT; LEAD AND OAKUM JOINTS FROM CLEANOUT TO AND INCLUDING CONNECTION TO SANITARY DRAIN.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND HEIGHT OF ALL PLUMBING FIXTURES.
- MISCELLANEOUS DISCREPANCIES OR OMISSIONS WHICH MIGHT APPEAR ON THE PLANS OR SPECIFICATIONS WILL NOT RELIEVE THE PLUMBING SUB-CONTRACTOR OF CODE COMPLIANCE.
- ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED EQUIPMENT NECESSARY TO PROVIDE A COMPLETE SYSTEM INCLUDING AN ELECTRONICALLY OPERATED PRIMING MANIFOLD AND ALL ASSOCIATED PIPING REQUIRED.
- PROVIDE CLEANOUTS AT ALL CHANGE OF DIRECTIONS FOR SANITARY/WASTE PIPING.
- PROVIDE WALL CLEANOUTS WITH ACCESS PANELS AT ALL SANITARY/WASTE PIPING WITHIN PIPE CHASES OR WALLS.
- HANDICAPPED ACCESSIBLE FIXTURES SHALL BE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND THE RULES AND REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD. WHERE THE TWO STANDARDS DIFFER, THE MORE STRINGENT SHALL APPLY.
- ALL BURIED DOMESTIC WATER PIPING, NON-POTABLE WATER PIPING, TEMPERED WATER PIPING OR AIR PIPING SHALL BE SOFT ROLLED "K" COPPER COIL AND BE PROTECTED WITH A HIGH DENSITY RUBBER INSULATION. FITTINGS SHALL NOT BE PERMITTED IN OR UNDER SLAB. PROVIDE SLAB PENETRATIONS WITH SLEEVE AND FIRE STOPPING.

PLUMBING LEGEND

| SYMBOL | ABBREVIATION | DESCRIPTION |
|--------|--------------|---|
| | | BELOW FLOOR PIPING (INDICATED AS DOUBLE LINEWORK) |
| | CW | COLD WATER |
| | HW | HOT WATER |
| | NPCW | NON-POTABLE COLD WATER |
| | S or W | SOIL OR WASTE |
| | V | VENT |
| | G | NATURAL GAS |
| | CONT | CONTINUATION |
| | UP | PIPE RISE OR UP |
| | DN | PIPE DROP OR DOWN |
| | TEE | PIPE TEE |
| | SOV | SHUT-OFF VALVE |
| | PRV | PRESSURE REDUCING VALVE |
| | VIV | VALVE IN VERTICAL |
| | CV | CHECK VALVE |
| | W & T | WASTE & TRAP |
| | CO | CLEANOUT PLUG |
| | FCO | FLUSH FLOOR CLEANOUT |
| | | ARROW INDICATES DIRECTION OF FLOW |
| | | ARROW INDICATES DIRECTION OF SLOPE |
| | | UNION |
| | WTS | WATERTIGHT SLEEVE |
| | HB | HOSE BIBB |
| | WH | WALL HYDRANT |
| | FD "A" | FLOOR DRAIN & TYPE |
| | RPZ | REDUCED PRESSURE ZONE ASSEMBLY |
| | WM | WATER METER |
| | T | THERMOMETER |
| | PG | PRESSURE GAUGE WITH PETCOCK |
| | T&P | TEMPERATURE AND PRESSURE RELIEF VALVE |
| | SA | SHOCK ABSORBER |
| | | VACUUM RELIEF VALVE |
| | POC | POINT OF CONNECTION |
| | WH-1 | WATER HEATER & NUMBER |
| | SS | SOIL STACK |
| | VS | VENT STACK |
| | VTR | VENT THRU ROOF |
| | INV | INVERT |
| | TYP | TYPICAL |
| | NTS | NOT TO SCALE |
| | AFF | ABOVE FINISHED FLOOR |
| | LPC | LIMIT OF PLUMBING CONTRACT |
| | S=.01 | SLOPE = 1/8" PER FOOT |
| | S=.02 | SLOPE = 1/4" PER FOOT |
| | F.F.E. | FINISHED FLOOR ELEVATION |
| | PD | PUMPED DISCHARGE |
| | ETP | ELECTRONIC TRAP PRIMER |

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PROJECT

**MAIN LIFT
 PUMP STATION**

TAUNTON, MA

TITLE

**PLUMBING
 LEGEND,
 NOTES &
 SCHEDULE**

| NO. | REVISIONS | DATE |
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DRAWN BY: GPC

DESIGNED BY: GPC

CHECKED BY: JAL

ISSUE DATE: 03/31/22

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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

PLUMBING
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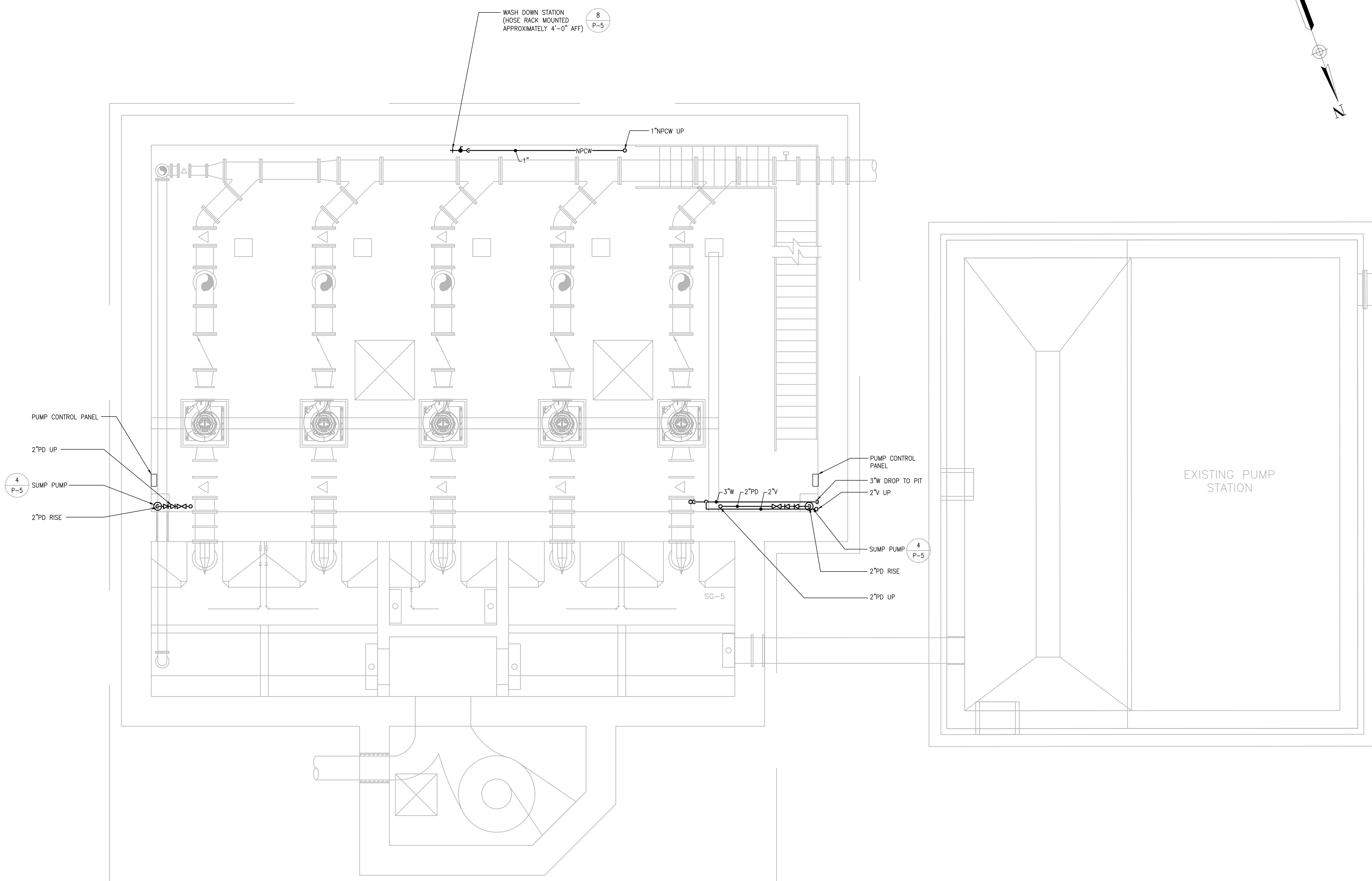
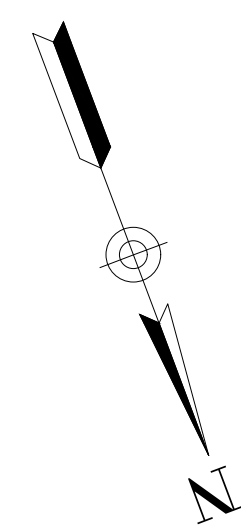
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SHEET NO. P-2



PLUMBING BASEMENT LEVEL PLAN
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PROJECT

**MAIN LIFT
 PUMP STATION**

TAUNTON, MA

TITLE

**INSTRUMENTATION
 & CONTROLS
 LEGEND AND
 NOTES**

| | | |
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| NO. | REVISIONS | DATE |
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DRAWN BY: RB
 DESIGNED BY: MC
 CHECKED BY: MC
 ISSUE DATE: 03/31/22
 BETA JOB NO.: 5530-000

SCALE
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For Review Only

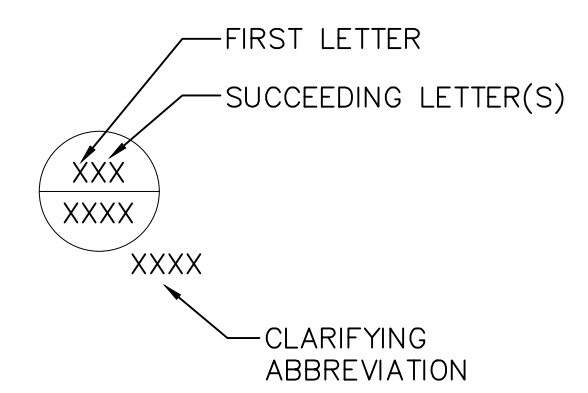
SHEET NO. I-1

ABBREVIATIONS

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

INSTRUMENT IDENTIFICATION LETTERS

| PROCESS OR INITIATING VARIABLE | FIRST LETTER | | SUCCEEDING LETTER(S) | | |
|--------------------------------|--------------------|------------|-----------------------------|-----------------|----------------|
| | MODIFIER | | READOUT OR PASSIVE FUNCTION | OUTPUT FUNCTION | MODIFIER |
| A | ANALYSIS | | ALARM | | |
| B | BURNER, COMBUST. | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE |
| C | USER'S CHOICE | | USER'S CHOICE | CLOSE | USER'S CHOICE |
| D | USER'S CHOICE | DIFFERENCE | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE |
| E | VOLTAGE | | PRIMARY ELEMENT | | |
| F | FLOW | FRACTION | | | |
| G | USER'S CHOICE | | GLASS | | |
| H | HAND, MANUAL | | HORN | | HIGH |
| I | CURRENT | | INDICATE | | |
| J | POWER | SCAN | | | |
| K | TIME, SCHEDULE | | | CONTROL STATION | |
| L | LEVEL | | LIGHT | | LOW |
| M | MOISTURE, HUMIDITY | | | | MIDDLE |
| N | USER'S CHOICE | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE |
| O | USER'S CHOICE | | USER'S CHOICE | OPEN | USER'S CHOICE |
| P | PRESSURE, VACUUM | | POINT, TEST | | |
| Q | QUANTITY, EVENT | TOTALIZE | | | |
| R | RADIATION | | RECORD, PRINT | | |
| S | SPEED, FREQUENCY | SAFETY | | SWITCH | |
| T | TEMP. | | | TRANSMIT | |
| U | MULTI-VARIABLE | | MULTI-FUNCTION | MULTI-FUNCTION | MULTI-FUNCTION |
| V | VIBRATION | | | VALVE, DAMPER | |
| W | WEIGHT, FORCE | | WELL | | |
| X | UN-CLASSIFIED | | UN-CLASSIFIED | UN-CLASSIFIED | UN-CLASSIFIED |
| Y | EVENT, STATE | | | RELAY, COMPUTE | |
| Z | POSITION | | | DRIVE, ACTUATOR | |



LINE LEGEND

| | |
|--|--|
| | NEW PROCESS PIPING |
| | EXISTING PROCESS PIPING |
| | PNEUMATIC AIR PIPING |
| | DIGITAL SIGNAL |
| | ANALOG SIGNAL |
| | ELECTRICAL POWER OR CONTROL |
| | FIELD INSTRUMENTATION |
| | PLC INTERFACE |
| | PANEL/OIT/SCADA DISPLAY AND OR CONTROL |
| | INDEPENDENT CONTROL CIRCUIT |
| | DRAWING AND OR PROCESS REFERENCE |

SYMBOL LEGEND

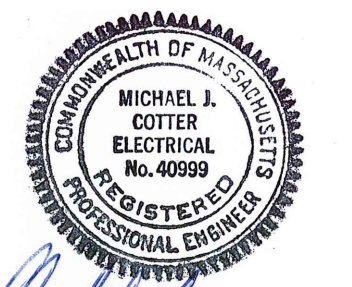
| | | | |
|--|--|--|-------------------------------|
| | ACTUATOR - MOTORIZED | | MIXER |
| | ACTUATOR - SOLENOID | | MIXER - SUBMERSIBLE |
| | AIR REGULATOR/SEPERATOR | | MOTOR |
| | ANALYZER | | POSITION SWITCH |
| | BLOWER/FAN | | PULSATION DAMPENER |
| | CALIBRATION COLUMN | | PUMP - CENTRIFUGAL |
| | COMPRESSOR - ROTARY TYPE | | PUMP - PERISTALTIC |
| | DRAIN | | PUMP - PROGRESSING/CAVITY |
| | EDUCATOR | | PUMP - RECIPROCATING/METERING |
| | ELECTRIC MOTOR | | PUMP - ROTARY LUBE |
| | EMERGENCY EYEWASH/SHOWER | | PUMP - SUBMERSIBLE |
| | FLEX CONNECTION | | SLIDE OR SLUICE GATE |
| | FLOW METER - MAGNETIC | | STATIC MIXER |
| | FLOW METER - ULTRASONIC STRAP ON | | VALVE - BALL |
| | FLOW METER - ROTAMETER | | VALVE - BUTTERFLY |
| | FLOW METER - THERMAL MASS | | VALVE - CHECK |
| | FLOW SWITCH | | VALVE - GATE |
| | GRINDER | | VALVE - GLOBE |
| | HOSE | | VALVE - PINCH |
| | LEVEL SWITCH - FLOAT SWITCH | | VALVE - PLUG |
| | LEVEL SWITCH - PADDLE WHEEL | | VALVE - PRESSURE REGULATING |
| | LEVEL TRANSMITTER - SUBMERSIBLE PRESSURE | | VALVE - PRESSURE REGULATING |
| | LEVEL TRANSMITTER - ULTRASONIC | | VIBRATOR |
| | LEVEL TRANSMITTER - RADAR | | |
| | MACERATOR | | |

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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**INSTRUMENTATION
& CONTROLS
WET WELLS &
PUMPS**

| NO. | REVISIONS | DATE |
|-----|-----------|------|
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| DRAWN BY: | RB |
| DESIGNED BY: | MC |
| CHECKED BY: | MC |
| ISSUE DATE: | 03/31/22 |
| BETA JOB NO.: | 5530-000 |

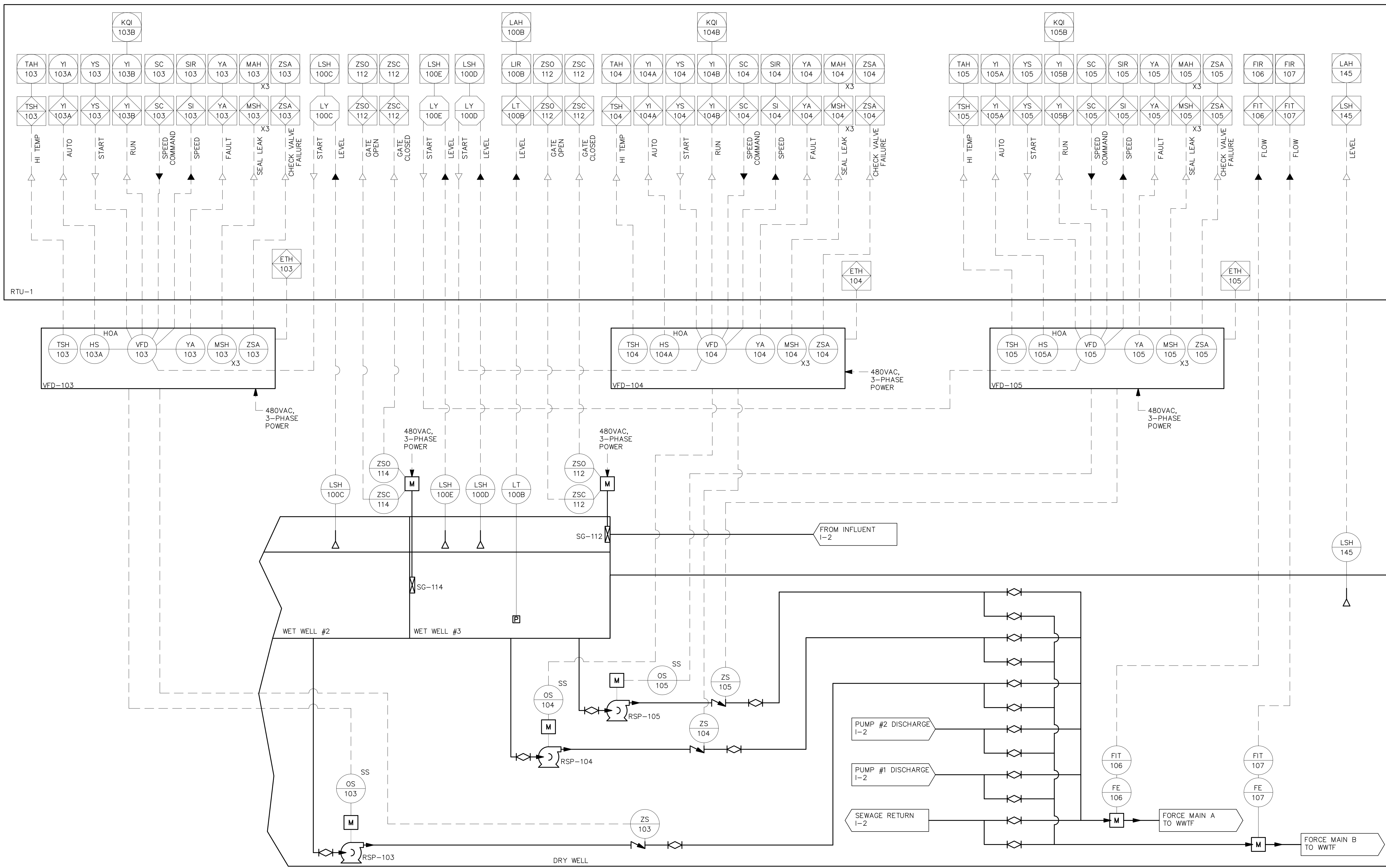
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SHEET NO. **I-3**



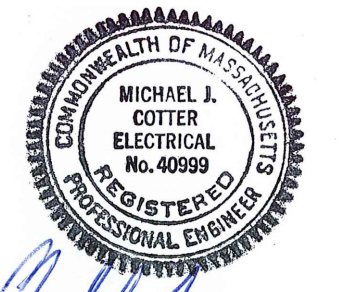
6/6/2021 6:40 PM W:\YEAR_2017\7003_00 - TAUNTON MAIN LIFT PUMP STATION\ELECTRICAL\DEPARTMENT\7003-00 I&C.DWG

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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**ELECTRICAL
SITE PLAN**

NO. REVISIONS DATE

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 03/31/22

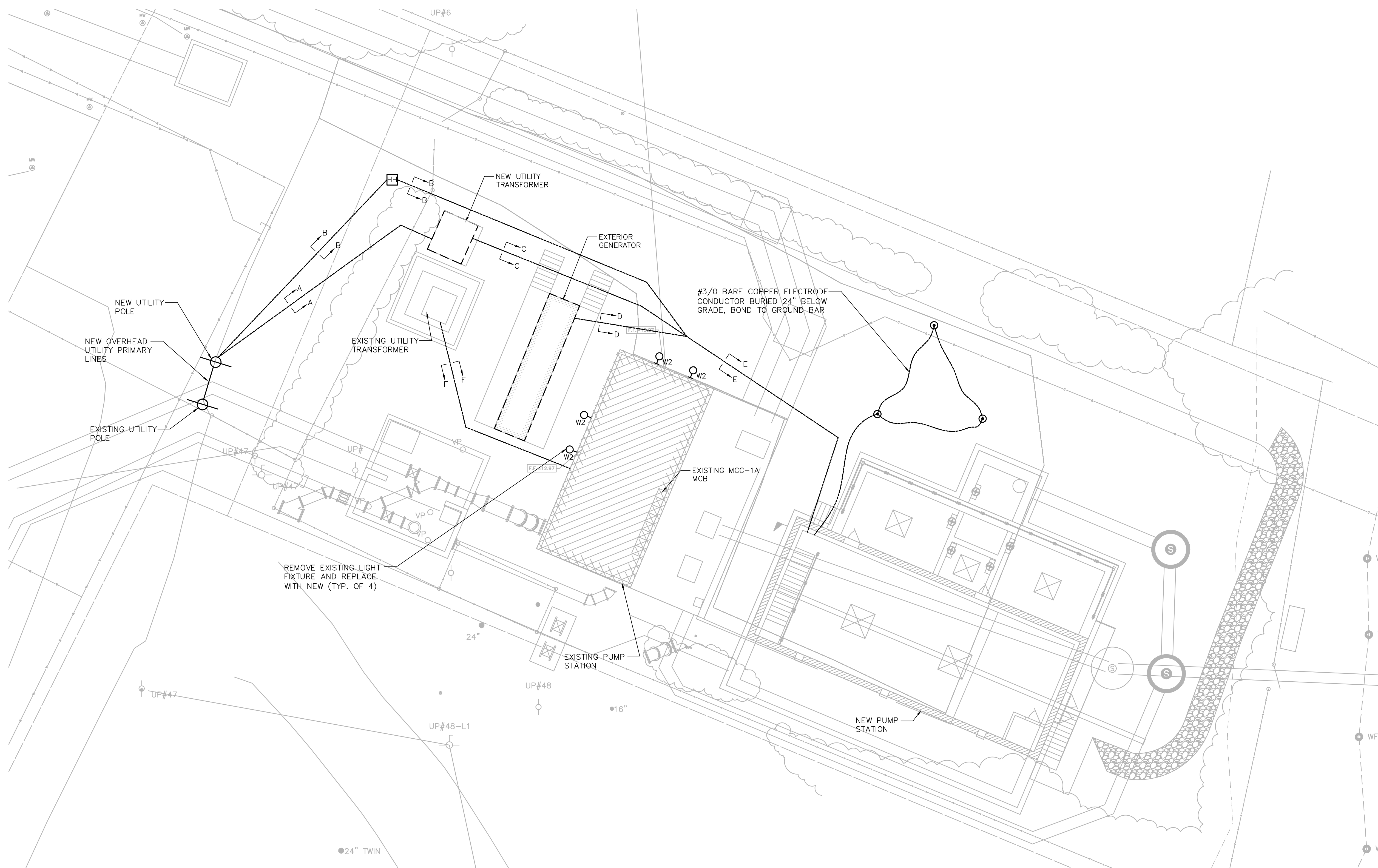
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SHEET NO. E-3



ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

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| LIGHTING FIXTURE SCHEDULE | | | | | | | | | |
|---------------------------|---|---|-----------|--------|-------|-------|----------|--|---|
| TYPE | DESCRIPTION | MANUFACTURER & CATALOG SERIES | LAMPS | | VOLTS | WATTS | MOUNTING | | REMARKS |
| | | | TYPE | LUMENS | | | TYPE | HEIGHT | |
| F1 | 48" LED ENCLOSED AND GASKETED INDUSTRIAL LIGHTING FIXTURE. | LITHONIA FEM-L48-4000LM-IMAFI-MVOLT-35K-80CRI | LED 3500K | 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 3500K | 2000lm | 120 | 14 | CEILING | - | - |
| W1 | EXTERIOR BUILDING MOUNTED LED WALL PACK LIGHT FIXTURE | LITHONIA TWP-LED-20C-700-50K-T3M-MVOLT-DDXB | LED 5000K | 4233lm | 120 | 45 | WALL | 12' AFG | FIXTURE CIRCUIT TO BE CONNECTED TO AND CONTROLLED BY A LIGHTING CONTROL PANEL |
| W2 | EXTERIOR BUILDING MOUNTED LED MINI WALL PACK LIGHT FIXTURE | LITHONIA TWS-LED-P1-50K | LED 5000K | 1476lm | 120 | 25 | WALL | REPLACE EXISTING IN PLACE | EXISTING FIXTURE CIRCUIT TO BE UTILIZED |
| | 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 |
| | 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.

| POWER CABLE/CONDUIT SCHEDULE | | | |
|------------------------------|---------------|--------------|---------|
| SYMBOL | CONDUIT SIZE* | CONDUCTORS* | GND* |
| P22 | 3/4" | (2)#12 | (1)#12 |
| P23 | 3/4" | (3)#12 | (1)#12 |
| P26 | 3/4" | (6)#12 | (1)#12 |
| P32 | 3/4" | (2)#10 | (1)#10 |
| P33 | 3/4" | (3)#10 | (1)#10 |
| P53 | 3/4" | (3)#8 | (1)#10 |
| P54 | 3/4" | (4)#8 | (1)#10 |
| P63 | 1" | (3)#6 | (1)#8 |
| P64 | 1" | (4)#6 | (1)#8 |
| P83 | 1 1/4" | (3)#4 | (1)#8 |
| P84 | 1 1/4" | (4)#4 | (1)#8 |
| P103 | 1 1/2" | (3)#3 | (1)#6 |
| P104 | 1 1/2" | (4)#3 | (1)#6 |
| P113 | 1 1/2" | (3)#2 | (1)#6 |
| P114 | 1 1/2" | (4)#2 | (1)#6 |
| P133 | 2" | (3)#1 | (1)#6 |
| P134 | 2" | (4)#1 | (1)#6 |
| P153 | 2" | (3)#1/0 | (1)#6 |
| P154 | 2" | (4)#1/0 | (1)#6 |
| P173 | 2 1/2" | (3)#2/0 | (1)#6 |
| P174 | 2 1/2" | (4)#2/0 | (1)#6 |
| P203 | 2 1/2" | (3)#3/0 | (1)#4 |
| P204 | 2 1/2" | (4)#3/0 | (1)#4 |
| P233 | 3" | (3)#4/0 | (1)#4 |
| P234 | 3" | (4)#4/0 | (1)#4 |
| P253 | 3" | (3)250KCMIL | (1)#4 |
| P254 | 3" | (4)250KCMIL | (1)#4 |
| P404 | 4" | (4)500KCMIL | (1)#3 |
| P804 | (2)4" | (8)500KCMIL | (2)#1/0 |
| P1004 | (3)4" | (12)500KCMIL | (3)#2/0 |

| SIGNAL CABLE/CONDUIT SCHEDULE | | |
|-------------------------------|--------------|-----------------|
| SYMBOL | CONDUIT SIZE | CONDUCTORS |
| S | 1" | VENDER PROVIDED |
| S1 | 3/4" | 1-2/C#16 TSP |
| S13 | 3/4" | 1-3/C#16 TSP |
| S2 | 3/4" | 2-2/C#16 TSP |
| S23 | 3/4" | 2-3/C#16 TSP |
| S3 | 1" | 3-2/C#16 TSP |
| S33 | 1" | 3-3/C#16 TSP |
| S4 | 1" | 4-2/C#16 TSP |
| S5 | 1" | 5-2/C#16 TSP |
| S6 | 1 1/2" | 6-2/C#16 TSP |
| S7 | 1 1/2" | 7-2/C#16 TSP |
| S8 | 1 1/2" | 8-2/C#16 TSP |
| S9 | 1 1/2" | 9-2/C#16 TSP |
| S10 | 2" | 10-2/C#16 TSP |
| TC1 | 3/4" | 8/C#18 |

| TELE/DATA CABLE/CONDUIT SCHEDULE | | |
|----------------------------------|--------------|----------------------|
| SYMBOL | CONDUIT SIZE | CONDUCTORS |
| TD1 | 1" | 1-CAT6 CABLE |
| TD2 | 1" | 2-CAT6 CABLE |
| FO6 | 1" | 6 STRAND FIBER OPTIC |

| CONTROL CABLE/CONDUIT SCHEDULE | | |
|--------------------------------|--------------|------------|
| SYMBOL | CONDUIT SIZE | CONDUCTORS |
| C2 | 3/4" | 2#14 |
| C4 | 3/4" | 4#14 |
| C5 | 3/4" | 5#14 |
| C6 | 3/4" | 6#14 |
| C7 | 3/4" | 7#14 |
| C8 | 3/4" | 8#14 |
| C9 | 3/4" | 9#14 |
| C10 | 3/4" | 10#14 |
| C12 | 3/4" | 12#14 |
| C16 | 1" | 16#14 |
| C20 | 1" | 20#14 |
| C30 | 1" | 30#14 |

NOTE: CONDUIT AND CONDUCTOR SIZES ARE TO BE PER THE ABOVE SCHEDULES UNLESS OTHERWISE NOTED.

| PANELBOARD SCHEDULE | | | | | | | | | | |
|-----------------------------------|---------------------------------------|------------|-----|------|------------------------|------|------------|-------------------------------|---------|---------------------|
| NO. LP1 | | | | | LOCATION: CONTROL ROOM | | | | | |
| 120/208 V, 3 PH, 4 W, 100 A MAINS | | | | | 100 A SOLID NEUTRAL | | | | | |
| 10,000 AIC AT 120 V | | | | | 100 A GROUND BUS | | | | | |
| | | | | | A MCB | | | | | |
| | | | | | A MLO | | | | | |
| | | | | | SURFACE MOUNTING | | | | | |
| CIRCUIT | DESCRIPTION OF LOAD | LOAD (KVA) | | | BREAKER | | LOAD (KVA) | DESCRIPTION OF LOAD | CIRCUIT | |
| | | Aφ | Bφ | Cφ | TRIP | POLE | | | | |
| 1 | GROUND FLOOR LIGHTING | 0.6 | | | 20 | 1 | | BASEMENT RECEPTACLES | 2 * | |
| 3 | MEZZ. & BASEMENT FLOOR LIGHTING | | 1.1 | | 20 | 1 | | MEZZ. FLOOR RECEPTACLES | 4 * | |
| 5 | EXTERIOR LIGHTS VIA TIME CLOCK SWITCH | | | 0.4 | 20 | 1 | | MEZZ. DEHUMIDIFIER | 6 * | |
| 7 | SCADA RTU CONTROL PANEL | 1.0 | | | 20 | 1 | | BASEMENT DEHUMIDIFIER | 8 * | |
| 9 | SECURITY ALARM CONTROL PANEL | | 0.5 | | 20 | 1 | | EXTERIOR RECEPTACLES | 10 * | |
| 11 | FORCE MAIN A FLOW METER | | | 0.1 | 20 | 1 | | GROUND FLOOR RECEPTACLES | 12 * | |
| 13 | FORCE MAIN B FLOW METER | 0.1 | | | 20 | 1 | | ERV-1 RECEPTACLES AND LIGHTS | 14 * | |
| 15 | TRAP PRIMERS | | 0.2 | | 20 | 1 | | SPARE | 16 | |
| 17 | SPARE | | | | 20 | 1 | | SPARE | 18 | |
| 19 | SPARE | | | | 20 | 1 | | SPARE | 20 | |
| 21 | SPARE | | | | 20 | 1 | | SPARE | 22 | |
| 23 | SPARE | | | | 20 | 1 | | SPARE | 24 | |
| 25 | SPARE | | | | 20 | 1 | | SPARE | 26 | |
| 27 | SPARE | | | | 20 | 1 | | SPARE | 28 | |
| 29 | SPARE | | | | 20 | 1 | | SPARE | 30 | |
| 31 | SPARE | | | | 20 | 1 | | SPARE | 32 | |
| 33 | SPARE | | | | 20 | 1 | | SPARE | 34 | |
| 35 | SPARE | | | | 20 | 1 | | GENERATOR ALTERNATOR HEATER | 36 | |
| 37 | SPARE | | | | 20 | 1 | | GENERATOR BATTERY CHARGER | 38 | |
| 39 | ACCU-1 | | 3.3 | | 40 | 2 | 2.0 | GENERATOR BLOCK JACKET HEATER | 40 | |
| 41 | | | 3.3 | | | | 2.0 | | 42 | |
| SUB-TOTAL CONNECTED | | 1.7 | 5.1 | 3.8 | | | 2.7 | 3.4 | 4.7 | SUB-TOTAL CONNECTED |
| * PROVIDE GFCI BREAKER | | | | | | | | | | |
| SUB-TOTAL CONNECTED | | KVA Aφ = | | 4.4 | | | | | | |
| SUB-TOTAL CONNECTED | | KVA Bφ = | | 8.5 | | | | | | |
| SUB-TOTAL CONNECTED | | KVA Cφ = | | 8.5 | | | | | | |
| TOTAL CONNECTED | | KVA = | | 21.4 | | | | | | |

| PANELBOARD SCHEDULE | | | | | | | | | | |
|-----------------------------------|---------------------------------|------------|-----|------|------------------------|------|------------|-----------------------------------|---------|---------------------|
| NO. PP1 | | | | | LOCATION: CONTROL ROOM | | | | | |
| 277/480 V, 3 PH, 4 W, 100 A MAINS | | | | | 100 A SOLID NEUTRAL | | | | | |
| 10,000 AIC AT 277 V | | | | | 100 A GROUND BUS | | | | | |
| | | | | | A MCB | | | | | |
| | | | | | A MLO | | | | | |
| | | | | | SURFACE MOUNTING | | | | | |
| CIRCUIT | DESCRIPTION OF LOAD | LOAD (KVA) | | | BREAKER | | LOAD (KVA) | DESCRIPTION OF LOAD | CIRCUIT | |
| | | Aφ | Bφ | Cφ | TRIP | POLE | | | | |
| 1 | GROUND LEVEL UNIT HEATER EUH-1A | 1.7 | | | 20 | 3 | | BASEMENT LEVEL UNIT HEATER EUH-1E | 2 * | |
| 3 | GROUND LEVEL UNIT HEATER EUH-1B | 1.7 | | | 20 | 3 | | BASEMENT LEVEL UNIT HEATER EUH-1F | 4 * | |
| 5 | MEZZ. LEVEL UNIT HEATER EUH-1C | 1.7 | | | 20 | 3 | 0.3 | SLUICE GATE SG-4 | 6 | |
| 7 | MEZZ. LEVEL UNIT HEATER EUH-1D | 1.7 | | | 20 | 3 | 0.3 | SLUICE GATE SG-5 | 8 | |
| 9 | SLUICE GATE SG-1 | 0.3 | | | 20 | 3 | 0.6 | HOIST CRANE GROUND FLOOR | 10 | |
| 11 | SLUICE GATE SG-2 | 0.3 | | | 20 | 3 | 0.6 | HOIST CRANE BASEMENT | 12 * | |
| 13 | SLUICE GATE SG-3 | 0.3 | | | 20 | 3 | 1.5 | ELECTRIC WATER HEATER EWH-1 | 14 | |
| 15 | SUMP PUMP CONTROL PANEL | 0.6 | | | 20 | 3 | - | SPACE | | |
| SUB-TOTAL CONNECTED | | 8.3 | 8.3 | 8.3 | | | 6.7 | 6.7 | 5.2 | SUB-TOTAL CONNECTED |
| * PROVIDE GFCI BREAKER | | | | | | | | | | |
| SUB-TOTAL CONNECTED | | KVA Aφ = | | 15.0 | | | | | | |
| SUB-TOTAL CONNECTED | | KVA Bφ = | | 15.0 | | | | | | |
| SUB-TOTAL CONNECTED | | KVA Cφ = | | 13.5 | | | | | | |
| TOTAL CONNECTED | | KVA = | | 43.5 | | | | | | |

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

ELECTRICAL
SCHEDULES

NO. REVISIONS DATE

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 03/31/22

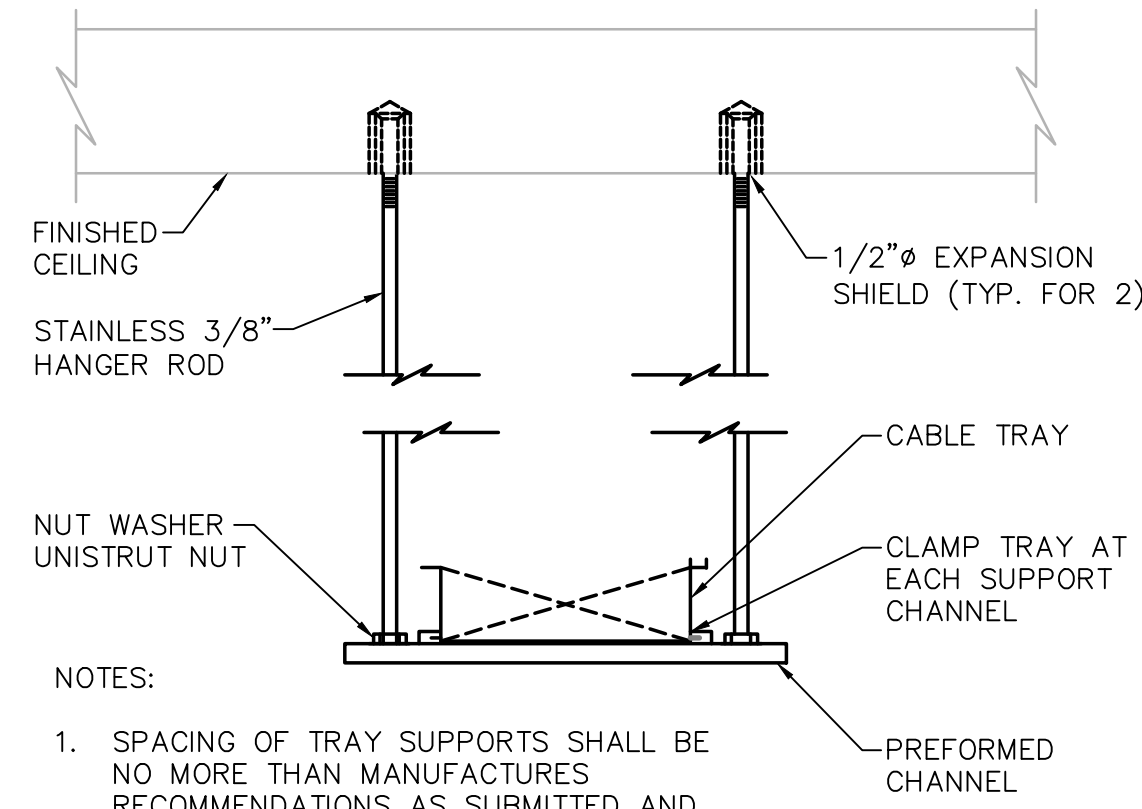
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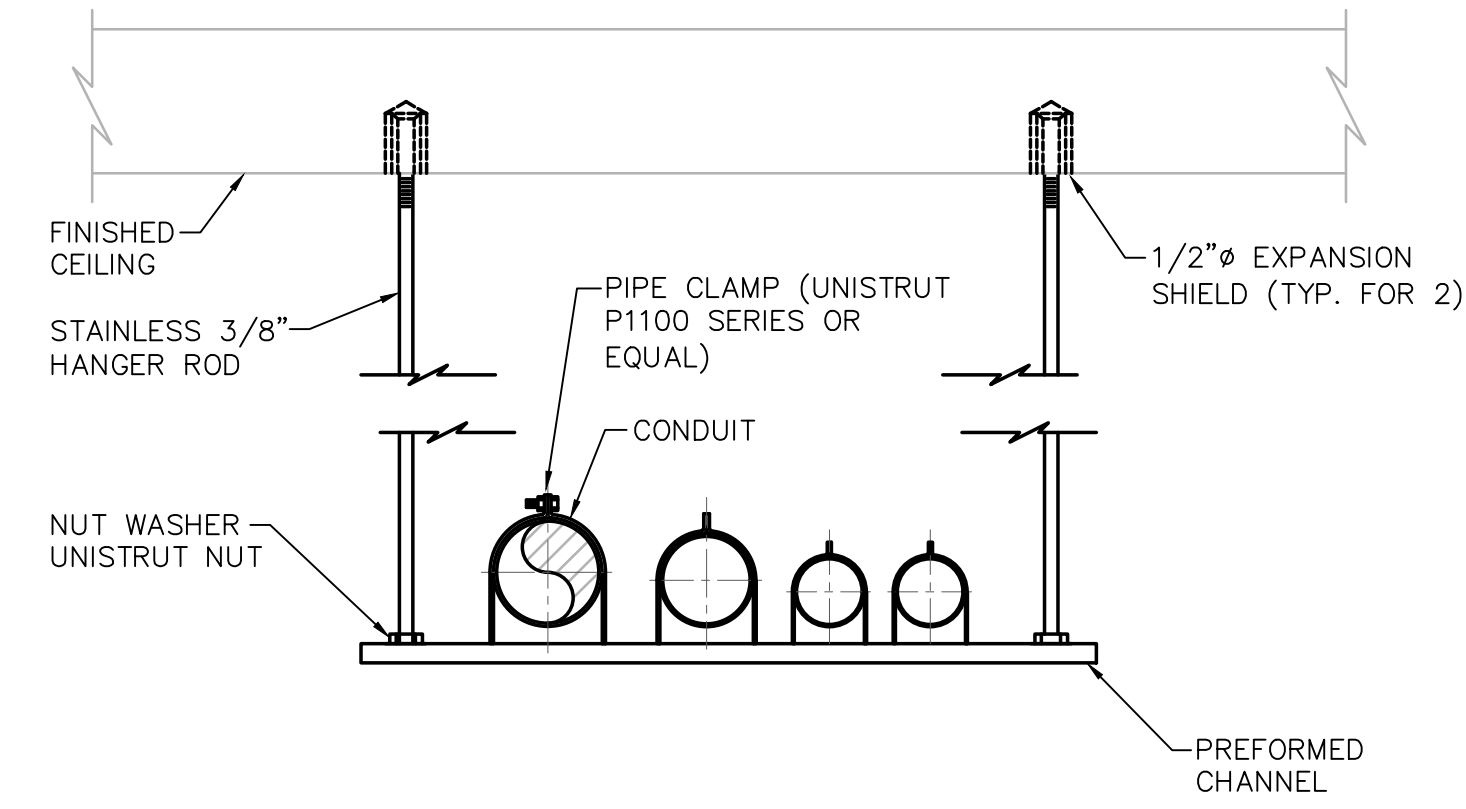
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SHEET NO. E-11



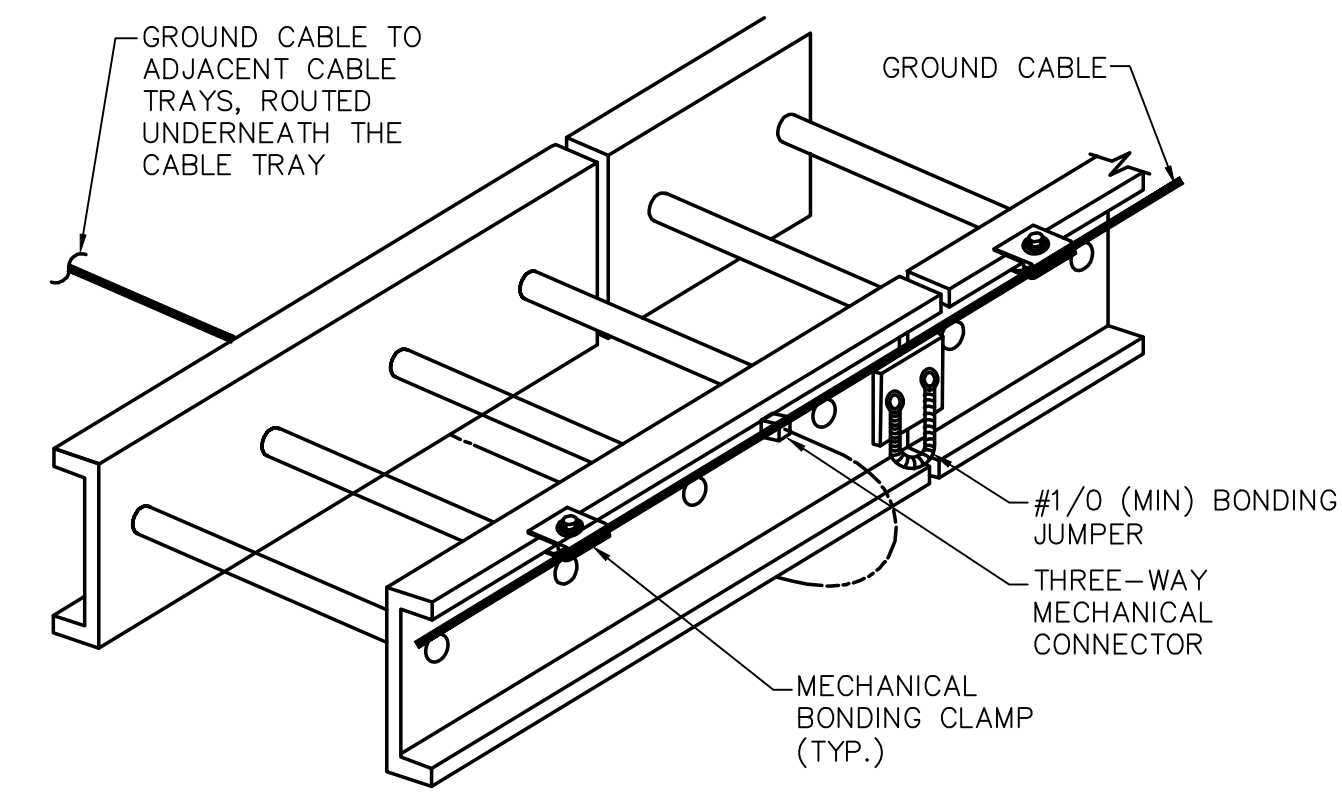
TYPICAL CABLE TRAY HANGER

NOT TO SCALE



TYPICAL CABLE TRAY HANGER

NOT TO SCALE



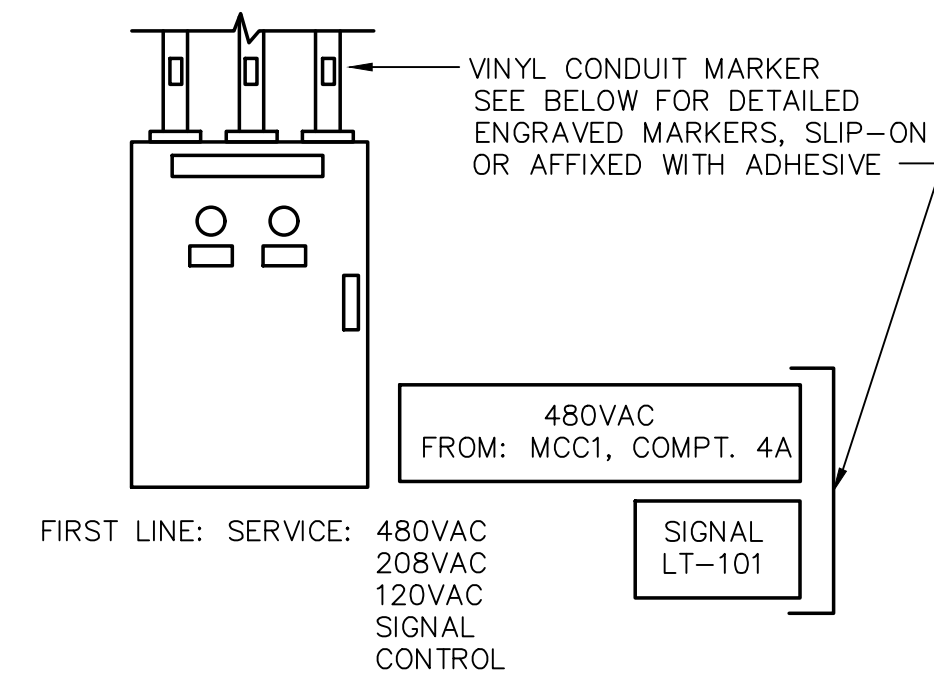
GROUNDING EACH CABLE TRAY SECTION

NOT TO SCALE

GENERAL NOTES:

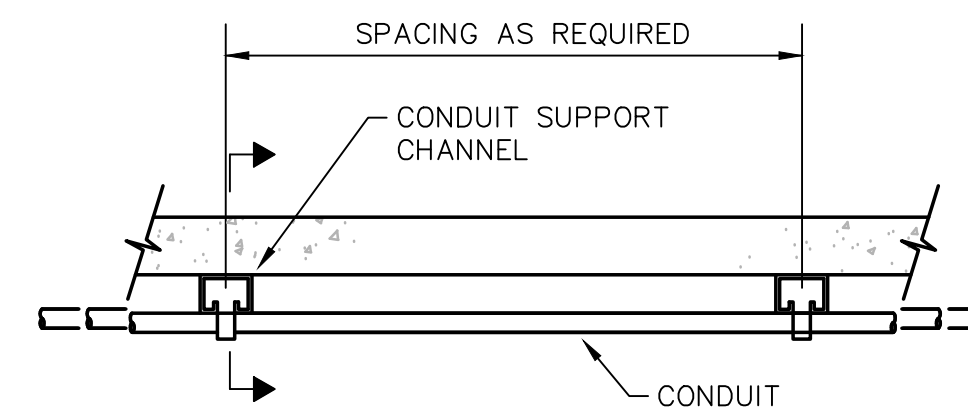
- 1. ALL MOUNTING BRACKETS, SUPPORTS, FASTENERS, AND ECT. WITHIN THE WET WELL SHALL BE STAINLESS STEEL.

- NOTES:
- 1. SPACING OF TRAY SUPPORTS SHALL BE NO MORE THAN MANUFACTURER'S RECOMMENDATIONS AS SUBMITTED AND APPROVED BY ENGINEER.

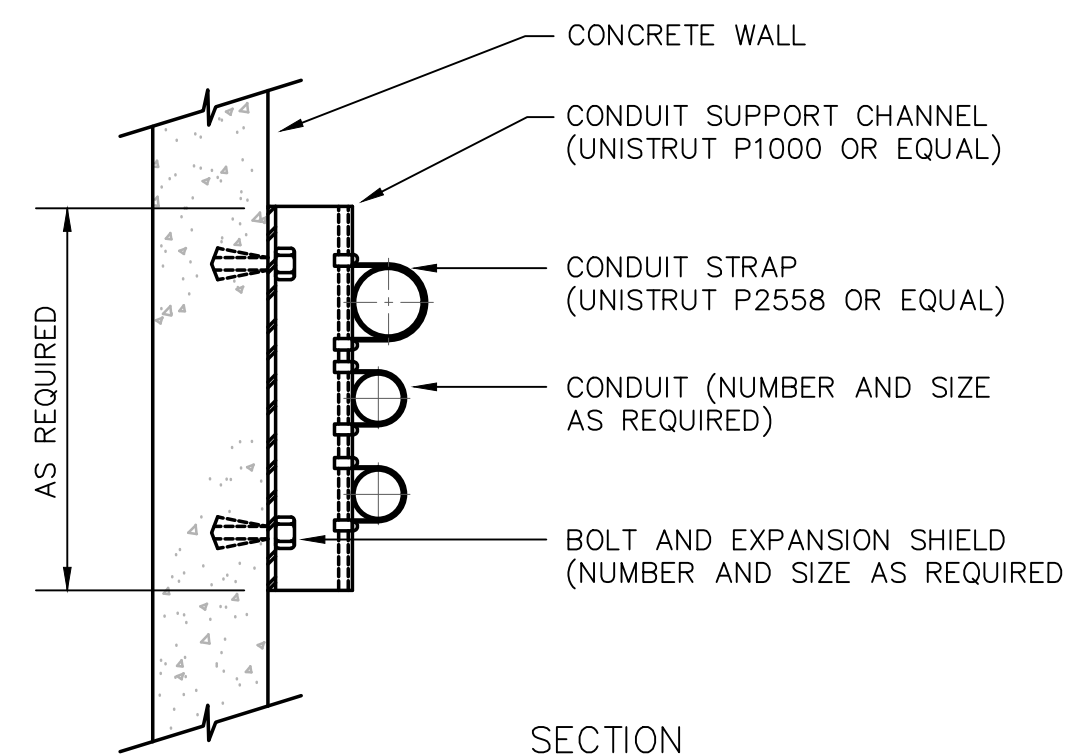


CONDUIT MARKER DETAIL

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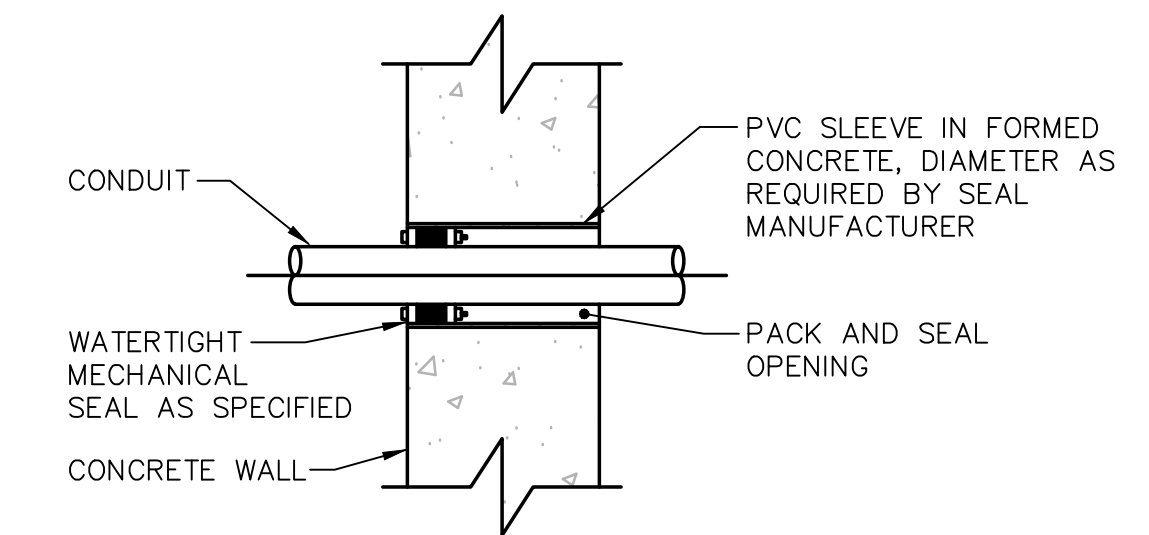
PLAN



SECTION

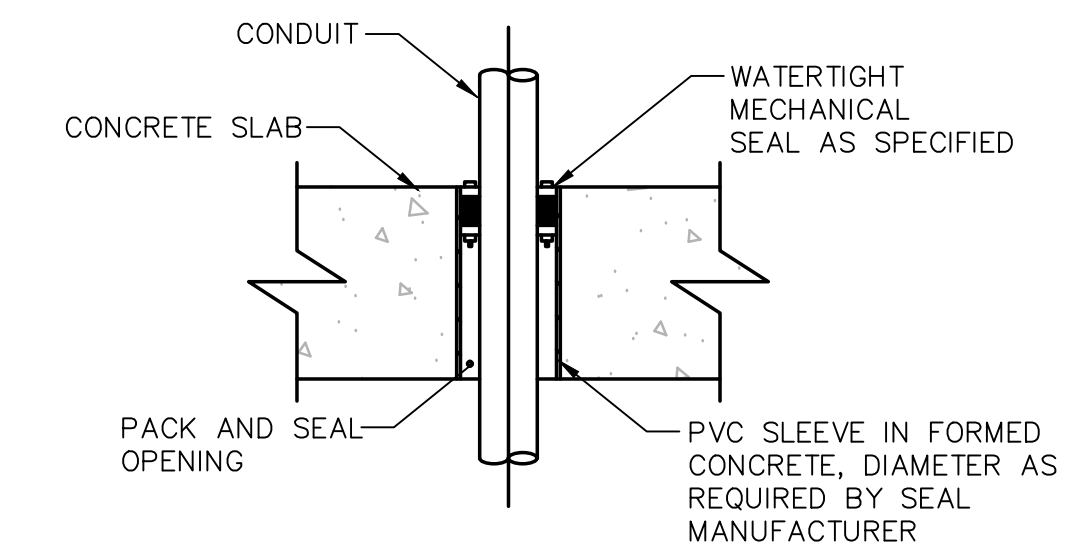
TYPICAL CONDUIT WALL SUPPORT

NOT TO SCALE



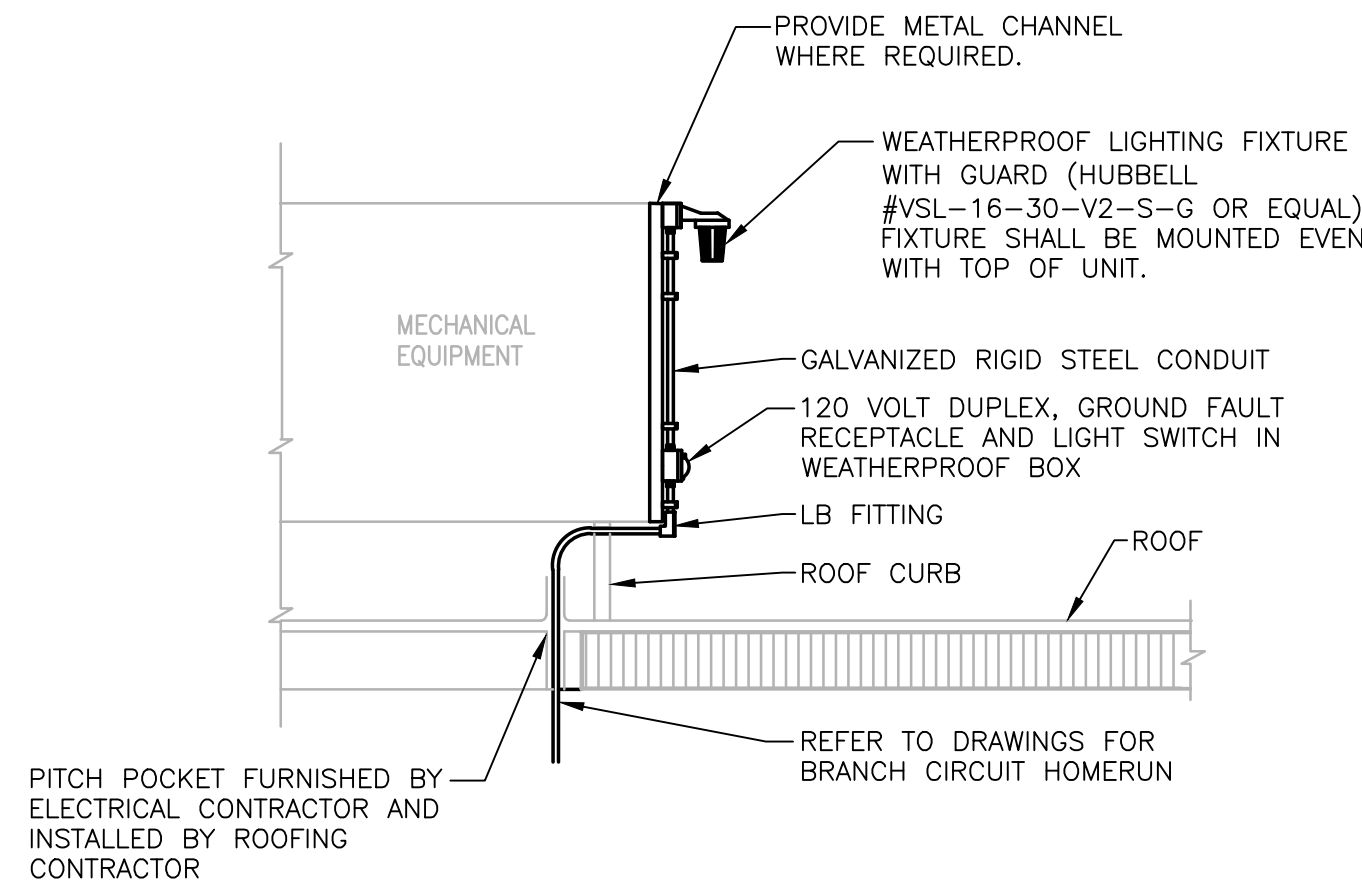
CONDUIT PENETRATION THROUGH CONCRETE WALL

NOT TO SCALE



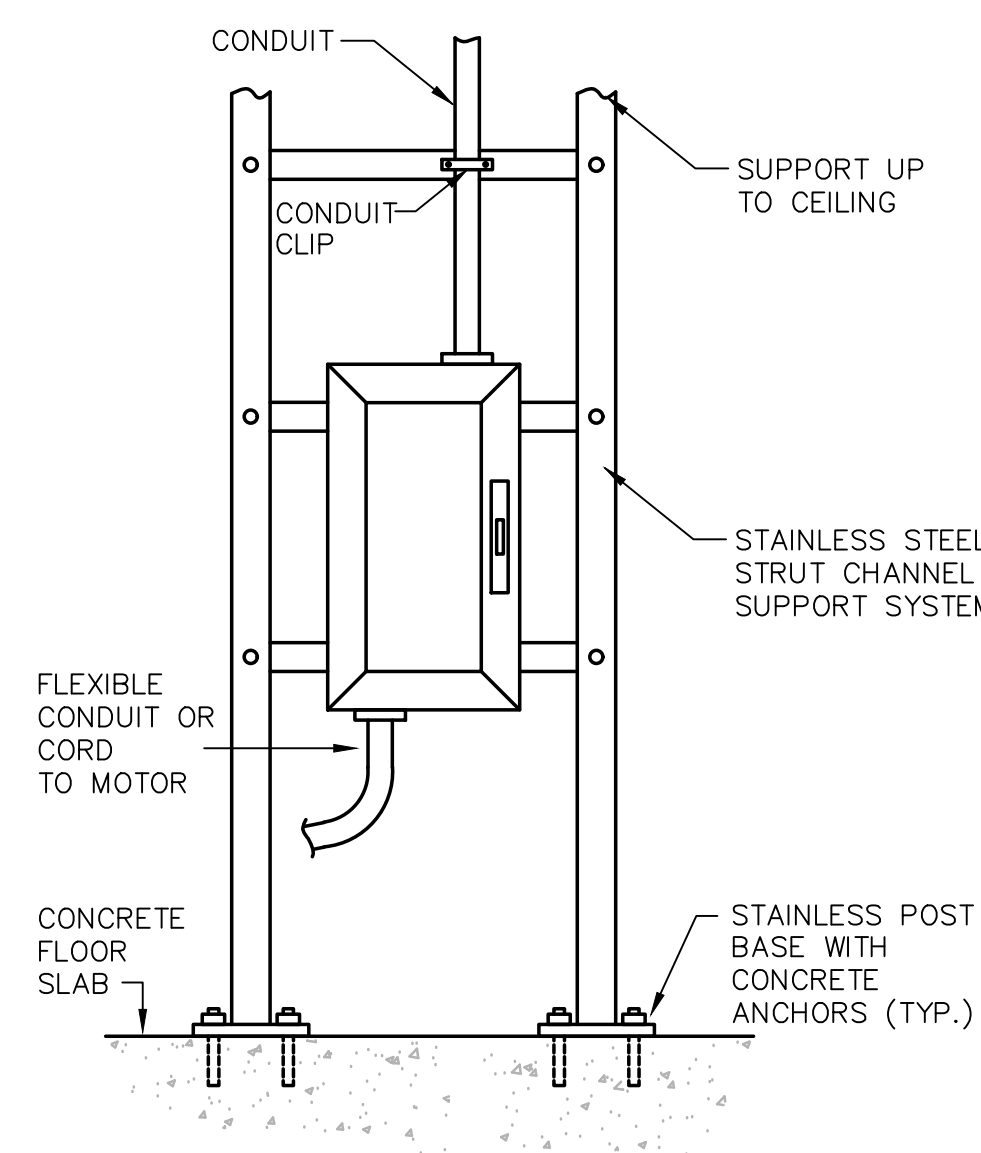
CONDUIT PENETRATION PASSING THROUGH CONCRETE SLAB

NOT TO SCALE



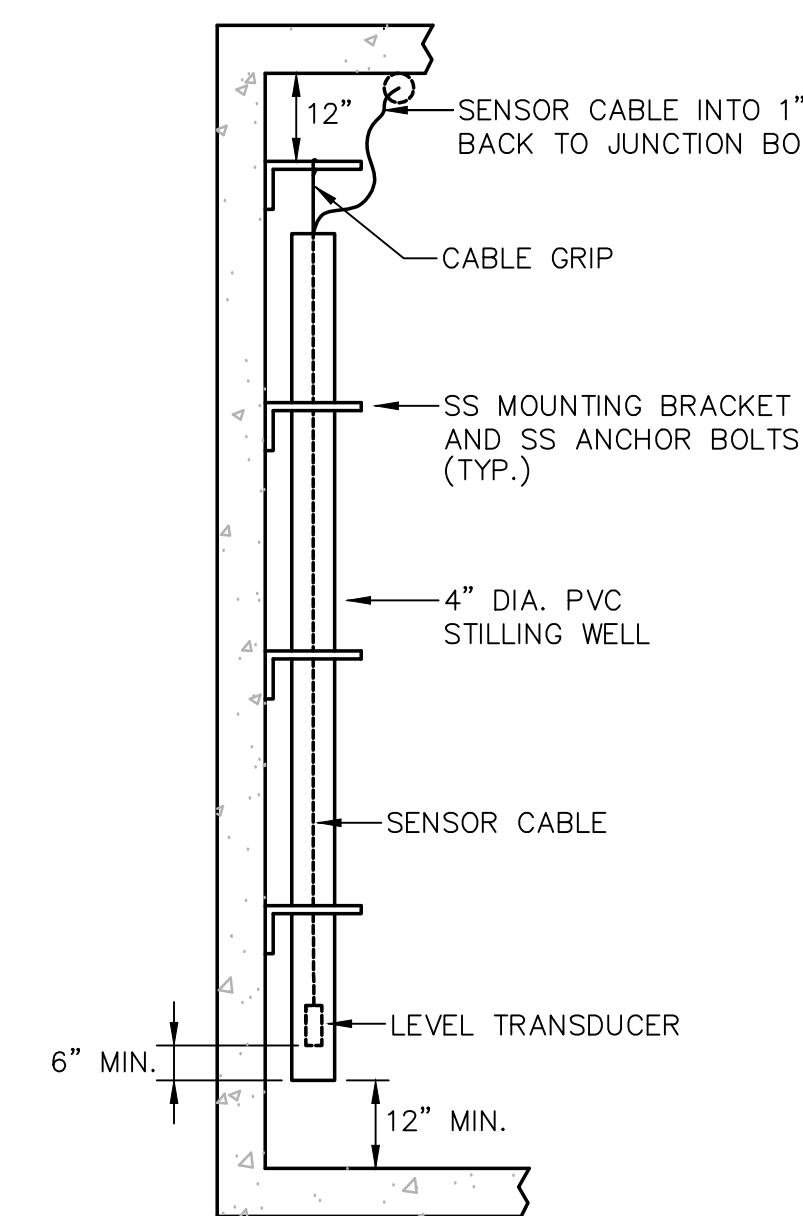
ROOFTOP LIGHT AND RECEPTACLE DETAIL

NOT TO SCALE



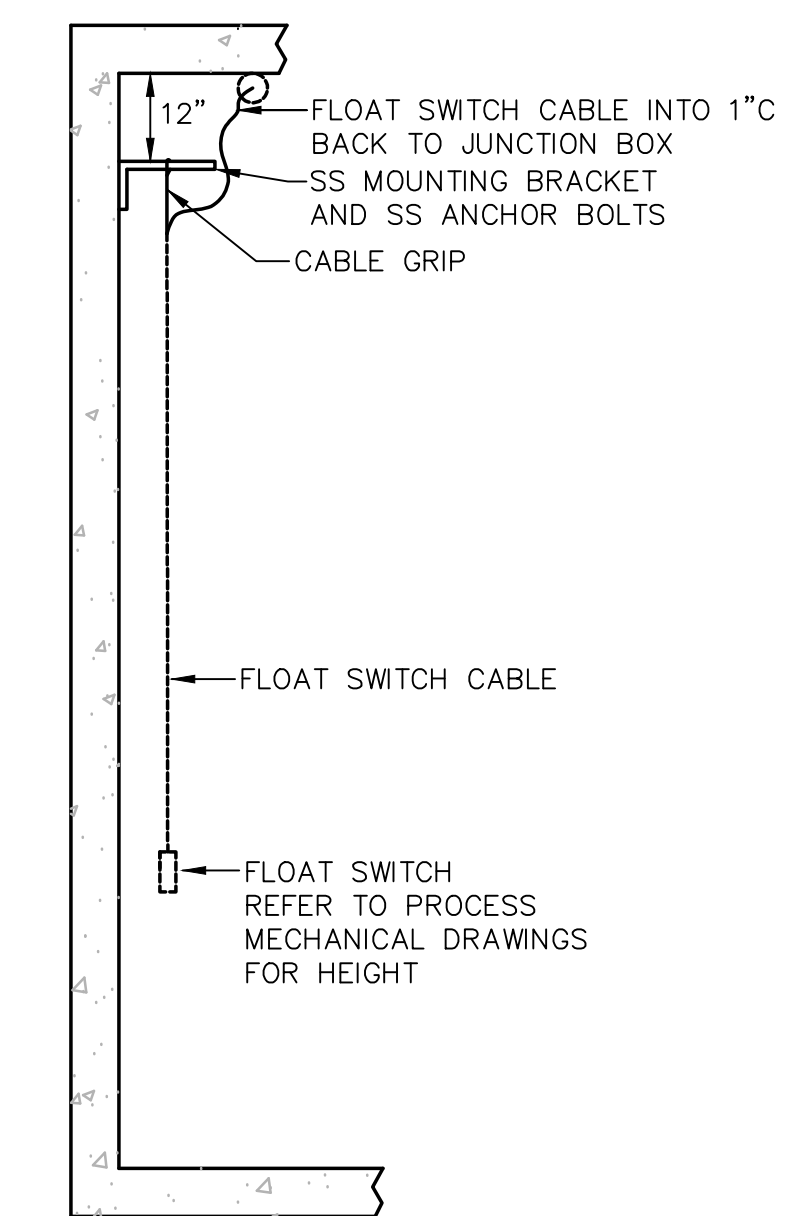
ELECTRICAL EQUIPMENT STANCHION MOUNTING DETAIL

NOT TO SCALE



SUBMERSIBLE LEVEL TRANSDUCER IN WET WELL

NOT TO SCALE



FLOAT LEVEL SWITCH IN WET WELL

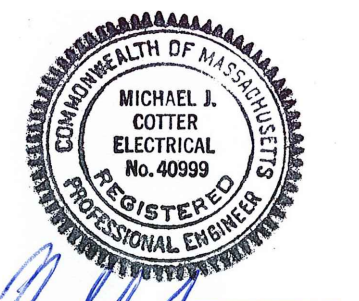
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PROJECT

MAIN LIFT PUMP STATION

TAUNTON, MA

TITLE

ELECTRICAL DETAILS

| NO. | REVISIONS | DATE |
|-----|-----------|------|
|-----|-----------|------|

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 03/31/22

BETA JOB NO.: 5530-000

SCALE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

For Review Only

SHEET NO. E-14