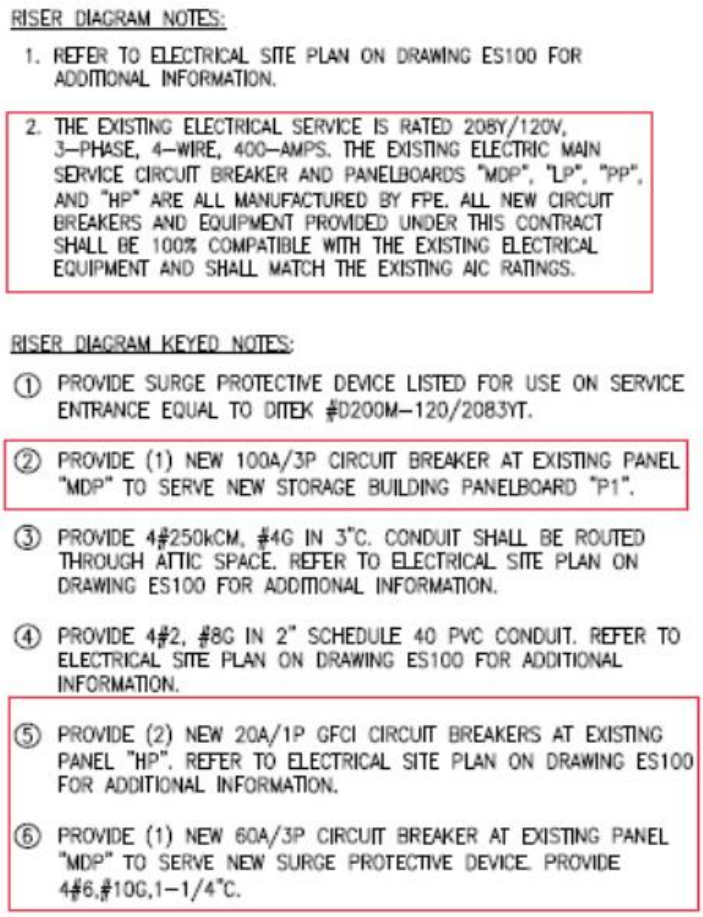
TO ALL BIDDERS OF RECORD:

This Addendum forms a part of the Contract Documents and modifies the Drawings and Project Manual as hereinafter indicated.

1) BIDDER'S QUESTIONS

Q: Drawing E300 - Electric Riser Diagram: Riser Diagram Note #2 - Existing Panels "MDP" & "HP" Are Manufactured By FPE. These Two Panels Require New Circuit Breakers to Be Furnished & Installed by The E.C. New FPE Circuit Breakers Are Obsolete & Cannot Be Purchased. Refurbished Circuit Breakers Are Not Acceptable in Public Construction as All Items Are Required to Be New. To Avoid Conflict & Warranty Issues, New Circuit Breakers Would Need to Be OFCI - Owner Furnished Contractor installed Per Contract. Please Advise How to Proceed ASAP.



RISER DIAGRAM NOTES:

1. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.
2. THE EXISTING ELECTRICAL SERVICE IS RATED 208Y/120V, 3-PHASE, 4-WIRE, 400-AMPS. THE EXISTING ELECTRIC MAIN SERVICE CIRCUIT BREAKER AND PANELBOARDS "MDP", "LP", "PP", AND "HP" ARE ALL MANUFACTURED BY FPE. ALL NEW CIRCUIT BREAKERS AND EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE 100% COMPATIBLE WITH THE EXISTING ELECTRICAL EQUIPMENT AND SHALL MATCH THE EXISTING AIC RATINGS.

RISER DIAGRAM KEYED NOTES:

① PROVIDE SURGE PROTECTIVE DEVICE LISTED FOR USE ON SERVICE ENTRANCE EQUAL TO DITEK #D200M-120/208Y.

② PROVIDE (1) NEW 100A/3P CIRCUIT BREAKER AT EXISTING PANEL "MDP" TO SERVE NEW STORAGE BUILDING PANELBOARD "P1".

③ PROVIDE 4#250kCM, #4G IN 3"C. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.

④ PROVIDE 4#2, #8G IN 2" SCHEDULE 40 PVC CONDUIT. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.

⑤ PROVIDE (2) NEW 20A/1P GFCI CIRCUIT BREAKERS AT EXISTING PANEL "HP". REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.

⑥ PROVIDE (1) NEW 60A/3P CIRCUIT BREAKER AT EXISTING PANEL "MDP" TO SERVE NEW SURGE PROTECTIVE DEVICE. PROVIDE 4#6,#10G,1-1/4"C.

A: We were unable to find any state mandate stating that refurbished equipment is unacceptable for public construction projects. The electrical contractor shall provide a circuit breaker procurement and installation pending approval from the electrical inspector. Additionally, provide a spare for each refurbished equipment requested by the Owner.

Q: Drawing E300 Keyed Note 3 instructs us to run 4#250, #4G in 3"C across the attic of the existing building, but keyed note 4 shows this feeder than drops down in size to 4#2, #8G in 2" C from the existing building to the new building. Was the change in size intentional?

A: Keyed note #3 on drawing E300 shall be revised to read as follows: "PROVIDE 4#2, #8G IN 2"C. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE. REFER TO THE ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION."

Q: Drawing E300 Riser Note 2 says new breakers and equipment to match the existing AIC rating. Please provide the existing AIC rating.

A: Electrical sub-contractor shall coordinate with the Utility Company for existing AIC rating.

Q:  *Occupancy Sensors Illustrated on Drawing A600 Do Not Appear to Be In The Same Locations As Shown On Drawing E200. Please Clarify.*

A: Install as shown on E200. Sheet A600 has been updated and reissued.

Q:  *Smoke Detectors Illustrated on Drawing A600 Are Not Shown on Drawing E200. Please Clarify.*

A: Smoke detectors are not required. Sheet A600 has been updated and reissued.

Q:  *CO/NO2 Sensors Illustrated on Drawing A600 Are Not Shown on Drawing E200. Are These Sensors Part of the Gas Detection System to Be F&I By The Mechanical Sub-Contractor. Please Clarify.*

A: Sensors are installed and wired by the mechanical contractor.

Q: Drawing A010 does show an FACP symbol, there is nothing about a Fire Alarm System on the electrical drawings. Should there be?

A: FACP is removed from sheet A010. Refer to reissued sheet A010.

Q: 08 33 10 and 08 36 00 are Sectional Overhead Doors Specs…which spec is being used? (Note: 08 33 00 lists only Overhead Door as an accepted manufacturer while 08 36 00 lists Wayne Dalton, but this spec is not included in the Table of Contents?).

A: Omit sections and refer to reissued section 08 36 00 SECTIONAL OVERHEAD DOORS.

Q: The glass specs are not clear as to what they want on the Sectional garage door (08 33 20). Its list out almost all potential options and does not select which option they would like. For example it lists every type of glass and every color etc. Can we get clarification on what they want in the specs.

A: Provide ½" tempered insulated glazing for door vision panels. Refer to reissued sections 08 36 00 SECTIONAL OVERHEAD DOORS and 08 80 00 GLASS AND GLAZING.

Q: Please provide details and confirm what the screened fence is that is called out to be installed on top of the retaining wall. Note also that there are no specifications in the Project Manual for the fencing scope.

A: Refer to Section 32 31 23 - VINYL FENCING AND GATES and updated civil details.

Q: What Bid Submission Forms are required for this project? Please clarify.

A: The following forms are to be submitted:

1. **For General Construction Bids**
    a. **Section 00 01 10 FORM FOR GENERAL BID (enclosed in this addendum)**
    b. **AIA Document A305-2020 CONTRATOR QUALIFICATIONS and Exhibits A-E**
    c. **AIA Document A310-2010 BID BOND FORM**
    d. **Section 00 65 00 LETTER OF INTENT**

e. Section 01 22 00 UNIT PRICES
f. Certification stating that bidder can bond for 100% value of construction.
g. Current DCAMM Certificate of Eligibility for General Building Construction
h. A current, signed DCAMM Prime / General Contractor Update Statement
i. Certificate of Insurance

2. For Filed Sub-Bids
a. Section 00 41 10 BID FORM FOR SUB-BID
b. AIA Document A305-2020 CONTRATOR QUALIFICATIONS and Exhibits A-E
c. AIA Document A310-2010 BID BOND FORM
d. Section 01 22 00 UNIT PRICES
e. A current signed DCAMM Sub Bidder's Certificate of Eligibility
f. A DCAMM Sub Bidder's Update Statement.

See ShareFile link for bid documents and addenda, which may outline any other additional requirements.

Q: Please confirm sewer shown on plan (C002) is existing.

A: The sewer line shown on the plan is proposed. Refer to the updated civil drawing C002 DEMOLITON PLAN.

Q: Please confirm all limits of the parking lot that will receive new pavement full depth, patch pavement or mill and overlay. The plans only appear to show new pavement full depth at new building and along the front of the existing building.

A: Refer to reissued civil drawing C003 SITE LAYOUT PLAN indicating proposed resurfacing and new asphalt square footage takeoffs.

a. PROJECT MANUAL

1) In section 00 00 10 TABLE OF CONTENTS, add the following sections:
1. After Section 00 04 30 BID BOND FORM add:
.....AIA A310-2010 2
3. After Section 32 17 23 PAVEMENT MARKINGS add:
32 31 23 .....VINYL FENCES AND GATES.....4

2) In section 00 00 10 TABLE OF CONTENTS, change page number for the following sections:
00 .04 10 .....FORM FOR GENERAL BID.....**2**
08 .33 20 .....OVERHEAD SECTIONAL DOORS **5**

3) In the project manual the following sections have been issued:
1. 00 04 30 BID BOND FORM - Issue Document AIA A310-2010 under this Section.
3. 31 31 23 VINYL FENCES AND GATES

4) In the project manual, replace the following with the updated sections:
1. 00 04 10 FORM FOR GENERAL BID
2. 08 33 20 OVERHEAD SECTIONAL DOORS

1) Section 00 08 00 SUPPLEMENTARY CONDITIONS, add the following in Section 9.12 Liquidated Damages:
9.12.2 The Contractor agrees to totally complete the project no later than March 28, 2025.

9.12.3 The Contractor also agrees to totally complete (final completion) the project within 45 days after the date of substantial completion.

9.12.4 In the event that the project is uncompleted at the expiration of the contract time established, liquidated damages of $500.00 per calendar day shall be assessed against the Contractor for each day in excess of the period of time allotted. An extension may be agreed upon between the Owner and Contractor.

2) Section 01 10 00 SUMMARY OF WORK, change items 1.4 WORK SEQUENCE to state the following:

A. Due to the limited space on the site and public accessibility, the Owner prioritizes the following site work improvements work areas to be completed in the following sequence. The contractor is responsible for coordinating the work phases with the Owner:

1. Front parking area to be open and available for public use
2. Rear parking area to maintain access to the existing maintenance garage for staff
3. Staff parking area (plan east)
4. Driveway (plan west)

Additionally in section 01 10 00 SUMMARY OF WORK, add the following to item 1.26 LIST OF DRAWINGS:

CIVIL - C008 DETAIL SHEET (1 OF 3)
LANDSCAPE - L2.0 LANDSCAPING DETAILS AND NOTES

3) Section 04 20 00 UNIT MASONRY (FILED SUB-BID), change items 2.3.A.1 and 2.3.A.2 (BRICK) to state the following:

1. Trade Reference and Color: Subject to compliance with requirements, basis of design as indicated:
   a) Bowerston Shale Company (Hanover Plant) 1329 Seven Hills Rd NE, Newark, OH 43055, p: (740) 763-3921, e: info@bowerstonshale.com
   b) Color: Bordeaux (Harbour Collection)
2. Size: Standard 3-5/8” W x 2-1/4” H x 7-5/8” L
3. Equivalent products by the following may be submitted for approval:
   a) McAvoy Brick
   b) Brampton Brick

4) Section 13 34 19 METAL BUILDING SYSTEMS, omit Item 2.5.J Linear Panels in its entirety.

3. DRAWINGS

1. Replace the following Civil Drawings with reissued drawings with addendum #2 dated 6/28/2024:

1. C001 PROJECT NOTES
2. C002 DEMOLITION PLAN
3. C003 SITE LAYOUT PLAN
4. C004 GRADING, DRAINAGE, AND UTILITY PLAN
5. C005 EROSION AND SEDIMENT CONTROL PLAN
6. C006 DETAIL SHEET (1 OF 3)
7. C007 DETAIL SHEET (1 OF 3)
8. C008 DETAIL SHEET (1 OF 3)

2. Replace the following Architectural Drawings with reissued drawings with addendum #2 dated 6/28/2024:

1. G001 ABBREVIATIONS SYMBOLS AND GENERAL NOTES
2. A010 CODE REVIEW
3. A100 FLOOR PLANS
4. A300 ENLARGED STAIR, ELEVATION AND SECTIONS

5. A400 BUILDING AND WALL SECTIONS
6. A600 REFLECTED CEILING PLANS

3. Replace Structural drawing S101 FOUNDATION PLAN AND MEZZANINE LEVEL FRAMING PLAN with the reissued sheet with addendum #2 dated 6/28/2024.

4. 4. Replace the following Plumbing Drawings with reissued drawings with addendum #2 dated 6/28/2024:
   a) P200 PLUMBING PLAN
   b) P300 PLUMBING SITE PLAN

5. Replace the following Electrical Drawings with reissued drawings with addendum #2 dated 6/28/2024:
a) ES100 ELECTRICAL SITE PLAN
b) E300 ELECTRICAL RISER DIAGRAM

4. ATTACHMENTS

1. C001 PROJECT NOTES
2. C002 DEMOLITION PLAN
3. C003 SITE LAYOUT PLAN
4. C004 GRADING, DRAINAGE, AND UTILITY PLAN
5. C005 EROSION AND SEDIMENT CONTROL PLAN
6. C006 DETAIL SHEET (1 OF 3)
7. C007 DETAIL SHEET (1 OF 3)
8. C008 DETAIL SHEET (1 OF 3)
9. G001 ABBREVIATIONS SYMBOLS AND GENERAL NOTES
10. A010 CODE REVIEW
11. A100 FLOOR PLANS
12. A300 ENLARGED STAIR, ELEVATION AND SECTIONS
13. A400 BUILDING AND WALL SECTIONS
14. A600 REFLECTED CEILING PLANS
15. S101 FOUNDATION PLAN AND MEZZANINE LEVEL FRAMING PLAN
16. P200 PLUMBING PLAN
17. P300 PLUMBING SITE PLAN
18. ES100 ELECTRICAL SITE PLAN
19. E300 ELECTRICAL RISER DIAGRAM
20. 00 04 10 FORM FOR GENERAL BID
21. 00 04 30 BID BOND FORM - Issue Document AIA A310-2010 under this Section.
22. 08 33 20 OVERHEAD SECTIONAL DOORS
23. 31 31 23 VINYL FENCES AND GATES
24. Updated Plan holder’s list

(THIS COMPLETES ADDENDUM NO. 2)

General Notes:

1. LOT SHOWN IS DESIGNATED AS LOT 1 ON DEDHAM ASSESSORS MAP 148

2. ZONING DISTRICT: SINGLE RESIDENCE B

3. OWNER OF RECORD: - DEDHAM WESTWOOD WATER DISTRICT
   50 ELM STREET
   DEDHAM, MA 02026
   BOOK 10454 PAGE 193

4. SITE IS NOT LOCATED IN FEMA FLOOD ZONE AS SHOWN ON FIRM PANEL 25021 C 0181 E EFFECTIVE ON JULY 17, 2012.

5. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.

Plan Reference:

1. TOPOGRAPHIC PLAN OF LAND - 50 ELM STREET DEDHAM, MASSACHUSETTS; BY BRENNAN CONSULTING; DATED FEBRUARY 25, 2022.

Dimensional Zoning Requirements:

Residential/Agricultural Zoning District

MINIMUM AREA	= 12,500 S.F.
MINIMUM FRONTAGE	= 95'
MINIMUM FRONT YARD SETBACK	= 25'
MINIMUM SIDE YARD SETBACK	= 15'
MINIMUM SIDE YARD SETBACK (1ST DET. ACCESSORY BLDG.)	= 5
MINIMUM REAR YARD SETBACK	= 25'
MINIMUM REAR YARD SETBACK (1ST DET. ACCESSORY BLDG.)	= 5
MAXIMUM HEIGHT	= 30 / 38'
MAXIMUM % BUILDING COVERAGE	= 30%

A.2

Construction Procedures and Sequencing

- THE CONTRACTOR SHALL ORGANIZE SITE CONSTRUCTION IN A MANNER WHICH WILL ENSURE THE IMMEDIATE STABILIZATION OF SURFACES. PERIMETER CONTROLS EQUAL APPROVED PROJECT LIMITS.
- PRIOR TO ANY CONSTRUCTION ON SITE, THE CONTRACTOR SHALL SETUP PRE-CONSTRUCTION MEETING WITH OWNER.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, A LINE STRAW WATTLES, WILL BE PLACED AT ALL CONSTRUCTION TOE OF SLOPES IN THE AREA OF ROADWAY, PONDS, LANDSCAPED AREAS, AND ALONG PERIMETER OF PROJECT LIMIT OF DISTURBANCE WHERE INDICATED ON PROJECT PLANS.
- RESERVE EROSION CONTROL DEVICES SHALL BE STOCKPILED ON SITE IN THE EVENT OF EMERGENCIES. AND SHALL BE LOCATED 100' FROM REGULATED WETLAND RESOURCE AREAS.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS FOR THE PROPER STORAGE AND/OR REMOVAL OF DEBRIS ON SITE TO AVOID UNNECESSARY ACCUMULATION ON SITE.
- DRAINAGE STRUCTURES SHALL BE CONSTRUCTED FROM DOWNSTREAM UP AND CONSTRUCTION SHALL INCLUDE THE PLACEMENT OF STONE AT THE FLARED PIPE ENDS AND OUTLET STRUCTURE INLETS AND OUTLETS AS SHOWN ON PROJECT PLANS.
- IN STREAM CONTROLS SUCH AS HAY BALE CHECK DAMS SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION IF NEEDED.

INFILTRATION SURFACE PROTECTION

TO PROTECT THE INFILTRATION SURFACES (BENEATH AND ADJACENT TO THE RECHARGE SYSTEMS) FROM DEGRADATION BY CONSTRUCTION ACTIVITIES INCLUDE:

1. PROVIDE DEEP ROTOTILLING OF VAIN FLOOR 1 WITH NO SUBSEQUENT TRAFFICKING ON SURFACE.

2. PREVENTION OF CONTAMINATION OF THE EXPOSED SUBGRADE BY CONSTRUCTION VEHICLES.

3. PREVENTION OF EXCESSIVE COMPACTION BY CONSTRUCTION VEHICLES.

4. PREVENTION OF THE DISCHARGE OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES INTO THESE FACILITIES.

CONSTRUCTION INSPECTION

THE ENGINEER SHALL BE CALLED ON SITE DURING THE CONSTRUCTION OF THE INFILTRATION BASIN.

THE ENGINEER SHALL BE ON SITE DURING THE CONSTRUCTION AND LAYOUT OF ALL OUTLET STRUCTURES.

THE ENGINEER SHALL PERFORM FREQUENT INSPECTION OF THE STORMWATER SYSTEM DURING CONSTRUCTION, WITH CLEANING AND MAINTENANCE AS WARRANTED. DURING ACTIVE CONSTRUCTION PERIODS, WEEKLY INSPECTION IS REQUIRED.

IF CONSTRUCTION IS SUSPENDED (E.G., OVER THE WINTER), THEN MONTHLY INSPECTIONS ARE REQUIRED. IN ADDITION, THE SYSTEM SHOULD BE CHECKED AFTER ANY SIGNIFICANT RAINFALL, TO INSURE IT IS FUNCTIONING CORRECTLY AND TO MONITOR SEDIMENT ACCUMULATION FROM THE DISTURBED AREAS OF THE SITE.

ROUGH GRADING

DURING GRADING, THE POTENTIAL FOR EROSION IS HIGH. DURING GRADING OPERATIONS, DISTURBED SLOPES WILL BE MULCHED AND VEGETATION ESTABLISHED TO PREVENT SEDIMENT EROSION TO THE SATISFACTION OF THE ENGINEER.

Operation & Maintenance Plan Notes:

THE MAINTENANCE AND UPKEEP ON THE EXISTING ROADWAY WILL INCLUDE THE FOLLOWING ELEMENTS:

CONSTRUCTION VEHICLES SHALL BE LIMITED TO ONE ACCESS POINT ON EACH LOT WHERE A CRUSHED-STONE CONSTRUCTION PAD ENTRANCE SHALL BE INSTALLED IN THE AREA OF THE PERMANENT DRIVEWAY TO ENSURE THAT MUD AND DEBRIS ARE NOT TRACKED ONTO THE ROADWAY. IF MUD IS INADVERTENTLY TRACKED ONTO THE ROAD, IT SHOULD BE REMOVED PROMPTLY.

GENERAL MAINTENANCE OF EROSION CONTROL ELEMENTS INCLUDING REGRADING, REVEGETATION, REPLACING RIPRAP, ETC., ON AN AS NEEDED BASIS. A.2

INFILTRATION FACILITY AND CATCH BASINS WILL BE INSPECTED SEMI-ANNUALLY BY THE OWNER AND WILL BE MAINTAINED AS REQUIRED.

BUILD UP OF SEDIMENTATION AND DEBRIS SHALL BE MONITORED AND REMOVED ON A SEMI-ANNUALLY BASIS IN ORDER TO KEEP THE DISCHARGES AND FLOWS INTO THE INFILTRATION FACILITY FUNCTIONING PROPERLY.

ALL STORMWATER MANAGEMENT SYSTEMS MUST HAVE AN OPERATION AND MAINTENANCE PLAN TO ENSURE THAT SYSTEMS FUNCTION AS DESIGNED.

THE OWNER WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM AND ALL OF ITS APPURTENANCES. THE FOLLOWING MAINTENANCE PROGRAM SHALL BE IMPLEMENTED:

A. CATCH BASIN INLETS

1. THE CATCH BASINS SHALL BE INSPECTED MONTHLY TO ASSURE THEY ARE FUNCTIONING PROPERLY, AND CLEANED BY REMOVING SEDIMENT AND DEBRIS FOUR TIMES PER YEAR. CLEANING SHALL BE PERFORMED BY USE OF A VACUUM TRUCK OR OTHER METHOD AS RECOMMENDED BY THE CATCH BASIN MANUFACTURER.
2. ALL SEDIMENT AND HYDROCARBONS (PETROLEUM PRODUCTS) SHALL BE PROPERLY HANDLED AND DISPOSED IN ACCORDANCE WITH APPLICABLE GUIDELINES.
3. ALL DRAINAGE SYSTEM OUTLETS SHALL ALSO BE INSPECTED FOR DEBRIS AND MAINTAINED ACCORDINGLY. INSPECTION AND MAINTENANCE SHALL OCCUR IN MAY AND DECEMBER OF EACH YEAR.
4. ALL INSPECTIONS AND MAINTENANCE SHALL BE PERFORMED BY QUALIFIED INDIVIDUALS. RECORDS OF THE INSPECTIONS AND MAINTENANCE SHALL BE KEPT FOR A PERIOD OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST.

B. UNDERGROUND INFILTRATION SYSTEM

1. THE INFILTRATION SYSTEMS SHALL BE INSPECTED AT LEAST EVERY SIX MONTHS AND AFTER EVERY MAJOR STORM DURING THE FIRST YEAR TO ASSURE THEY ARE FUNCTIONING PROPERLY,
2. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY.
3. CLEANING SHALL BE PERFORMED BY USE OF A VACUUM TRUCK OR OTHER METHOD AS RECOMMENDED BY THE PIPING MANUFACTURE
4. ALL DRAINAGE SYSTEM OUTLETS SHALL ALSO BE INSPECTED FOR DEBRIS AND MAINTAINED ACCORDINGLY. INSPECTION AND MAINTENANCE SHALL OCCUR IN MAY AND DECEMBER OF EACH YEAR.
5. IF THE INFILTRATION FACILITY FAILS TO DRAIN WITHIN 72 HOURS THEN A QUALIFIED PROFESSIONAL SHOULD ACCESS THE DEVICES AND PROVIDE RECOMMENDATIONS FOR CORRECTIVE ACTIONS, AND THE OWNER SHOULD TAKE IMMEDIATE ACTION TO IMPLEMENT THESE RECOMMENDATIONS TO RESTORE THE INFILTRATION FUNCTION.
6. ALL INSPECTIONS AND MAINTENANCE SHALL BE PERFORMED BY QUALIFIED INDIVIDUALS. RECORDS OF THE INSPECTIONS AND MAINTENANCE SHALL BE KEPT FOR A PERIOD OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST.

THE OWNER SHALL KEEP A WRITTEN RECORD OF INSPECTION DATES AND FINDINGS, MAINTENANCE OPERATIONS, AND ALL REPAIRS. AN INSPECTION/MAINTENANCE CHECKLIST SHALL BE USED IN THE SPECIFIED INSPECTIONS. RECORDS OF INSPECTIONS AND MAINTENANCE SHALL BE KEPT FOR AT LEAST THREE YEARS, AND AVAILABLE ON REASONABLE NOTICE FOR INSPECTION BY THE APPROPRIATE TOWN AGENCY.

Erosion & Sediment Control Notes:

1. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. GRAVEL CONSTRUCTION ENTRANCE WILL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF PROJECT AREA BEGINS. STABILIZATION OF ALL REGRADED AND SOIL STOCKPILE AREAS WILL BE INITIATED AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL MUNICIPALITIES REGULATIONS. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.

3. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE ENGINEER OR TOWN AGENCIES.

4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. ADDITIONAL MEASURES WILL BE REQUIRED TO PREVENT SEDIMENT DISCHARGE INTO THE STREET. AND DRAINAGE SYSTEMS.

5. SEEDING MIXTURE FOR FINISHED GRASSED AREAS WILL BE AS FOLLOWS:
   KENTUCKY BLUE GRASS = 45
   CREEPING RED FESCUE = 45
   PERENNIAL RYE GRASS = 10
   SEED TO APPLIED AT A RATE OF 4 LBS / 1000 S.F. FERTILIZER SHALL BE APPLIED AT A RATE OF 2 LBS / 1000 S.F. PLANTING SEASON SHALL BE APRIL 1 TO OCTOBER 15. AFTER OCTOBER 15 AREAS NOT SEEDED SHALL BE STABILIZED WITH STRAW WATTLES, HAY BALE CHECK DAMS, FILTER FABRIC OR WOODEN MULCH AS REQUIRED TO CONTROL EROSION.

6. AREAS LEFT BARE BEFORE FINISH GRADING AND SEEDING IS ACHIEVED, SHALL RECEIVE A TEMPORARY SEEDING OF PERENNIAL RYE GRASS APPLIED TO A RATE OF 2 LBS / 1000 S.F. AT A DEPTH OF 1/2". LIMESTONE (EQUIVALENT TO BE 50 % CALCIUM PLUS MAGNESIUM OXIDE) SHALL BE APPLIED AS SEEDBED PREPARATION AT A RATE OF 120 LBS / 1000 S.F.. WHERE GRASS PREDOMINATES, FERTILIZE ACCORDING TO A SOIL TEST AT A MINIMUM APPLICATION RATE OF 1 LB OF NITROGEN PER 1000 S.F. AREAS TO BE LEFT BARE BEFORE FINISH GRADING AND SEEDING OUTSIDE OF PLANTING SEASONS SHALL RECEIVE AN AIR-DRIED WOOD CHIP MULCH, FREE OF COURSE MATTER, TREATED WITH 12 LBS NITROGEN PER TON, APPLIED AT A RATE OF 185-275 LBS / 1000 S.F.

7. CONTRACTOR SHALL BE ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFY THE PROPER TOWN AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY. THE OWNER SHALL BE RESPONSIBLY FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

8. THE CONTRACTOR SHALL REQUEST THE APPROPRIATE TOWNS AGENCIES TO INSPECT AND APPROVE THE INSTALLATION OF ALL EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION. PERIODIC INSPECTIONS OF EROSION CONTROL MEASURES MAY BE PERFORMED BY THE AGENCIES, THE CONTRACTOR SHALL REPAIR, UPGRADE OR REPAIR ANY MEASURES THE AGENT MAY FEEL ARE IN NEED OF SUCH.

9. STOCKPILES OF SOIL SHALL BE SURROUNDED BY A SEDIMENT BARRIER. SOIL STOCKPILES TO BE LEFT BARE FOR MORE THAN FIFTEEN (15) DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH, IF STOCKPILES ARE TO REMAIN FOR MORE THAN SIXTY (60) DAYS, FILTER FABRIC SHALL BE USED IN PLACE OF HAY BALES. SIDE SLOPES SHALL NOT EXCEED 2:1.

10. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF HIS CONTRACT. DUST CONTROL SHALL INCLUDE BUT NOT LIMITED TO SPRINKLING WATER ON EXPOSED SOILS AND HAUL ROADS. CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC ON ADJACENT ROADWAYS.

11. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES ¼ TO ½ THE HEIGHT OF THE SILT FENCE OR HAY BALE, OR SILT SOCK.

12. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.

13. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED.

14. ALL FACILITIES USED AS TEMPORARY MEASURES SHALL BE CLEANED PRIOR TO BEING PUT INTO FINAL OPERATION.

15. PER THE MA DEP, BMP'S ARE NOT TO BE USED FOR TEMPORARY STORMWATER RUNOFF COLLECTION DURING THE PROJECTS CONSTRUCTION.

Observation Test Hole TH1

DEPTH	HORIZON	TEXTURE	COLOR	REDOX	OTHER g-gravel, c-cobbles, s-stone, b-boulders
0" - 48"	FILL/HTM	-	-	-	mix, sandy loam, loamy sand, g, c, s, b, loose
48" - 60"	bAp	gls	10YR3/2	-	p-plowed, gls, gravelly loamy sand, c, loose
60" - 72"	bBw	gls	10YR5/8	-	gls, c, loose
72" - 144"	bC	gls	10YR7/2	-	gls, c, loose

GWT OBSERVATIONS: NO STANDING / NO WEEPING — DATE: 2-9-2024
ESTIMATED SEASONAL HIGH WATER: > 144" — BY: MICHAEL S. FARIA

Observation Test Hole TH2

DEPTH	HORIZON	TEXTURE	COLOR	REDOX	OTHER g-gravel, c-cobbles, s-stone, b-boulders
0" - 48"	FILL/HTM	-	-	-	mix, sandy loam, loamy sand, g, c, s, b, loose
48" - 60"	bAp	gls	10YR3/2	-	p-plowed, gls, gravelly loamy sand, c, loose
60" - 72"	bBw	gls	10YR5/8	-	gls, c, loose
72" - 144"	bC	gls	10YR7/2	-	gls, c, loose

GWT OBSERVATIONS: NO STANDING / NO WEEPING — DATE: 2-9-2024
ESTIMATED SEASONAL HIGH WATER: > 144" — BY: MICHAEL S. FARIA

Observation Test Hole TH3

DEPTH	HORIZON	TEXTURE	COLOR	REDOX	OTHER g-gravel, c-cobbles, s-stone, b-boulders
0" - 6"	Ao	gls	10YR3/2	-	o-organic, gls, gravelly loamy sand, c, loose
6" - 24"	Bw	gls	10YR5/8	-	gls, c, loose
24" - 144"	C	gls	10YR7/2	-	gls, c, loose

GWT OBSERVATIONS: NO STANDING / NO WEEPING — DATE: 2-9-2024
ESTIMATED SEASONAL HIGH WATER: > 144" — BY: MICHAEL S. FARIA

Certification

COMMONWEALTH OF MASSACHUSETTS
PAUL D. CARLSON
CIVIL
NO. 40995
REGISTERED PROFESSIONAL ENGINEER

Drawn by LJG

Checked by PDC

Revised on
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STORAGE FACILITY

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Sheet Contents
PROJECT NOTES

Project Number. 6790

Drawing No. C001

Sheet 1 of 8

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Sheet Contents
DEMOLITION PLAN

Project Number. 6790

Drawing No.
C002

Sheet 2 of 8

GRAPHIC SCALE
20 0 10 20 40 80
1 INCH = 20 FEET

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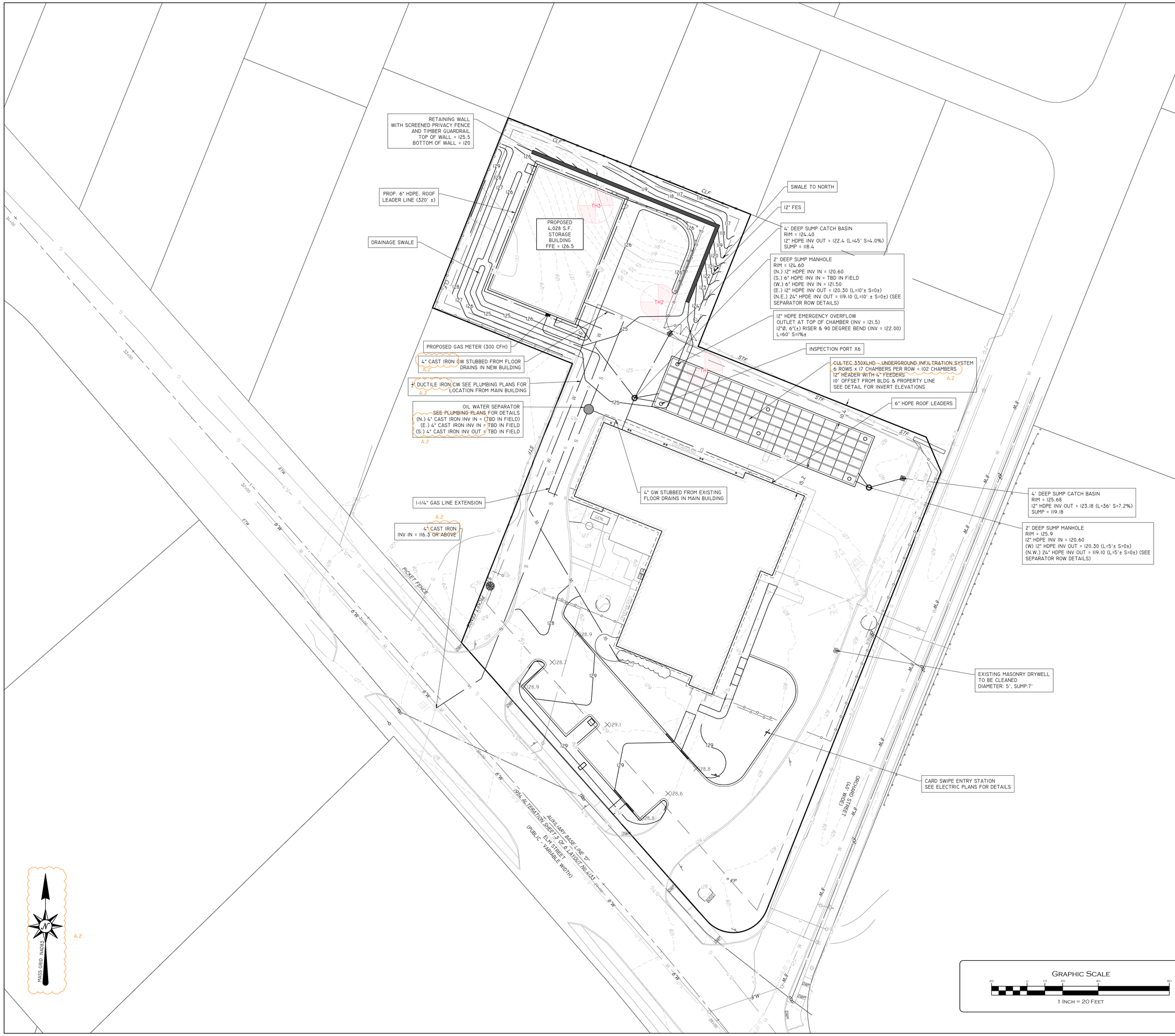
Sheet Contents
SITE LAYOUT PLAN

Project Number. 6790

Drawing No. C003

Sheet 3 of 8



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Sheet Contents
GRADING, DRAINAGE, AND UTILITY PLAN

Project Number. 6790

Drawing No. C004

Sheet 4 of 8

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Sheet Contents
EROSION & SEDIMENT CONTROL PLAN

Project Number. 6790

Drawing No.
C005

Sheet 5 of 8

CATCH BASIN
INLET PROTECTION x3

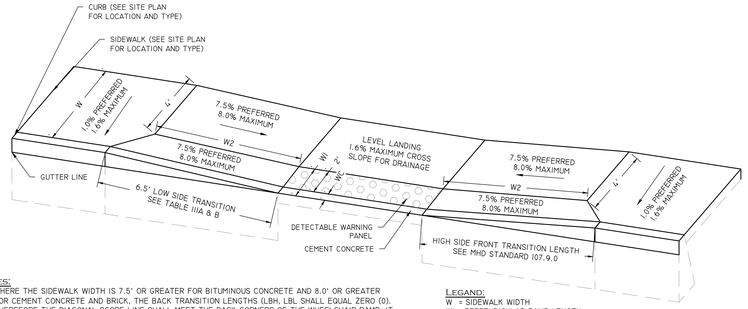
LIMIT OF DISTURBANCE / STRAW
WATTLE EROSION CONTROL
1150 LF ±

CATCH BASIN
INLET PROTECTION x3

CATCH BASIN
INLET PROTECTION x3

CONSTRUCTION ENTRANCE

GRAPHIC SCALE
20 0 10 20 40 80
1 INCH = 20 FEET

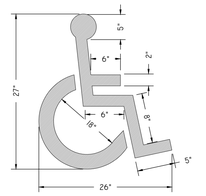


NOTES:
1. WHERE THE SIDEWALK WIDTH IS 7.5' OR GREATER FOR BITUMINOUS CONCRETE AND 8.0' OR GREATER FOR CEMENT CONCRETE AND BRICK, THE BACK TRANSITION LENGTHS (LBH, LBL SHALL EQUAL ZERO (0). THEREFORE THE DIAGONAL SCORE LINE SHALL MEET THE BACK CORNERS OF THE WHEELCHAIR RAMP. IT SHOULD BE NOTED THAT THE RAMP SLOPE SHALL BE LESS THAN 11.0' FOR BITUMINOUS CONCRETE AND GREATER THAN 8.0' TO LESS THAN 11.0' FOR CEMENT CONCRETE AND BRICK.
2. TRANSITION CURB SHALL BE PART OF THE HANDICAP RAMP WORK.

LEGAND:
W = SIDEWALK WIDTH
WI = PERPENDICULAR RAMP LENGTH
W2 = PARALLEL RAMP LENGTH
WC = CURB WIDTH

WHEELCHAIR RAMP DETAIL

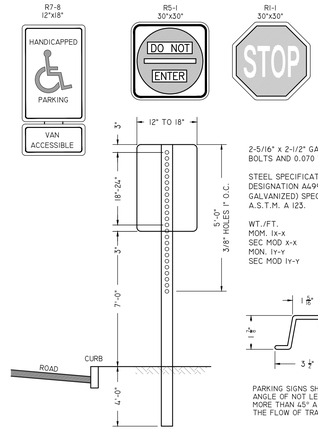
NOT TO SCALE



NOTES:
1. ALL HANDICAP PARKING AND SIGNALS SHALL BE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECTURAL BARRIERS BOARD

HANDICAP PAVEMENT MARKING

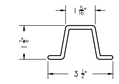
NOT TO SCALE



2-5/16" x 2-1/2" GALVANIZED BOLTS AND 0.070 WASHERS.

STEEL SPECIFICATION - A.S.T.M. DESIGNATION A499-64 ZINC (HOT GALVANIZED) SPECIFIED BY- A.S.T.M. A 123.

WT./FT.	3.00#
MOM. Ix-x	0.684 IN^4
SEC MOD x-x	0.569 IN^3
MON. Iy-y	0.886 IN^4
SEC MOD Iy-y	0.506 IN^3



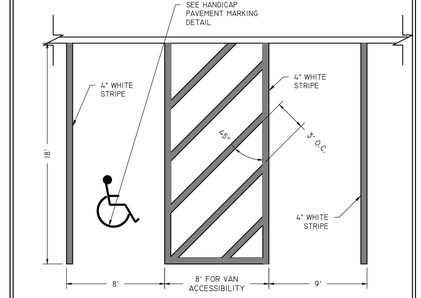
PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° A LINE PARALLEL TO THE FLOW OF TRAFFIC.

SIGN MOUNTING NOTES:
1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"x2 1/2" LONG UNLESS OTHERWISE NOTED.
2. WASHERS SHALL BE 0.07" THICK.
3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES" OR AS SPECIFIED BY MHD

HANDICAP SIGN NOTES:
1. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE ARCHITECTURAL BARRIERS BOARD.
2. SIGN(S) SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
3. FOR HANDICAPPED VAN SPACE USE SIGN AS DETAILED
4. FOR HANDICAPPED SPACE FOR AUTOMOBILES USE ONLY HANDICAPPED PARKING SIGN.

SIGN MOUNTING

NOT TO SCALE

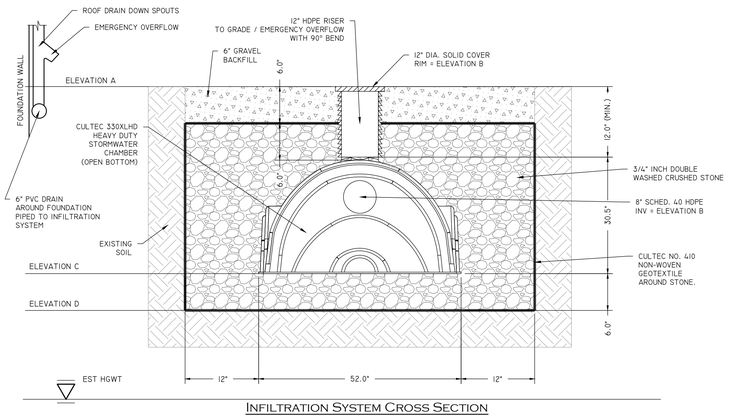


NOTES:
1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.

HANDICAP PARKING AND STANDARD STALLS

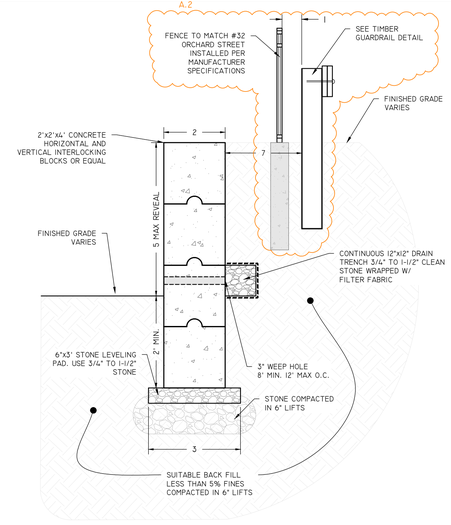
NOT TO SCALE

INFILTRATOR INVERT ELEVATIONS	
ELEVATION A	126.20-124.80
ELEVATION B	120.30
ELEVATION C	119.00
ELEVATION D	118.50
SHWT	113.00



INFILTRATION SYSTEM CROSS SECTION

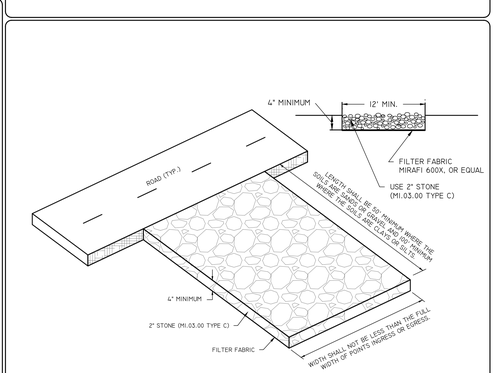
NOT TO SCALE



NOTES:
1. BOTTOM BLOCK TO BE 24" MIN. BELOW GRADE PLACED ON A 6" THICK x3' WIDE STONE LEVELING PAD. CONSTRUCTED WITH 3/4" TO 1-1/2" STONE.
2. REMOVE UNSUITABLE SOIL BELOW WALL AND REPLACE WITH STONE COMPACTED IN 6" LIFTS.
3. A 5' MAXIMUM WALL REVEAL SHALL BE MAINTAINED.
4. REFERENCE METHOD OF SETTING VERTICAL CURB, TIMBER GUARDRAIL, AND 4' ORNAMENTAL FENCE, AND LANDSCAPE DETAILS AND NOTES WHILE INSTALLING RELEVANT COMPONENTS.

INTERLOCKING BLOCK WALL DETAIL

SCALE: 1/2" = 1'



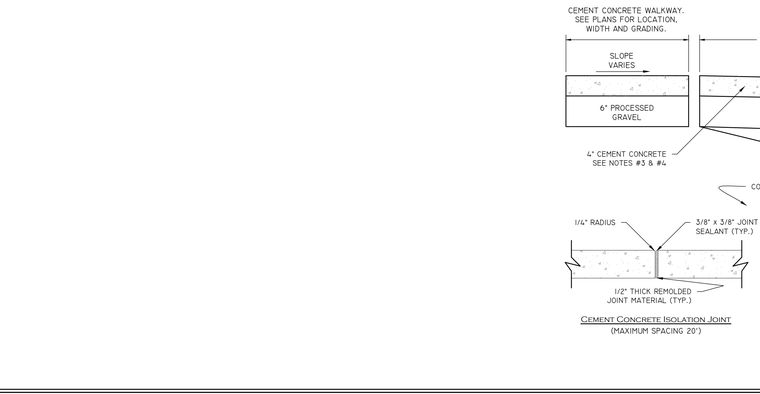
INSTALLATION:
THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED ABOVE.

MAINTENANCE:
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT- OF-WAYS THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

LOCATION:
SEE OVERALL SHEET FOR LOCATION OF CONSTRUCTION ENTRANCE.

CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



CEMENT CONCRETE ISOLATION JOINT
(MAXIMUM SPACING 20')

BITUMINOUS CONCRETE PAVEMENT
NOT TO SCALE

CEMENT CONCRETE CONTROL JOINT
(MINIMUM SPACING 4' OR AS INDICATED ON THE PLANS)

NOTES:
1. CEMENT CONCRETE FOR SIDEWALK SHALL ATTAIN COMPRESSIVE STRENGTH OF 4000 PSI (28 DAYS) WITH AIR ENTRAINED CONTENT OF 7%.
2. CONSTRUCTION JOINTS WITH 1/4" PREMOLDED EXPANSION JOINT FILLER SHALL BE PLACED EVERY 20 FEET.
3. IF SIDEWALK IS TO ABUT A SMOOTH WALL, FOUNDATION OR STATIONARY OBJECT, PLACE THE EXPANSION JOINT FILLER FULL DEPTH, BETWEEN SIDEWALK CONCRETE AND SURFACE OF WALL, FOUNDATION OR STATIONARY OBJECT.
4. IF SIDEWALK IS TO ABUT AN IRREGULAR WALL, FOUNDATION OR STATIONARY OBJECT, PLACE THE EXPANSION JOINT FILLER FULL DEPTH, FOUR (4) INCHES FROM IRREGULAR SURFACE, AND POUR CONCRETE BETWEEN THE ABOVE MENTIONED SURFACES AND THE EXPANSION JOINT MATERIAL.
5. THE FORCING OF PREMOLDED EXPANSION JOINT FILLER INTO FRESHLY PLACED CONCRETE WILL NOT BE ALLOWED.

NOTES:
6. THE MAXIMUM TOLERANCE FOR THE 6" CONCRETE THICKNESS IS ±1/2".
7. GRAVEL BORROW SHALL CONFORM TO DOT STD. SPECIFICATION MATERIALS SECTION
8. BITUMINOUS CONCRETE BERM SHALL BE MONOLITHIC PLACE WITH TOP COURSE OF BITUMINOUS PAVEMENT.
9. USE 75° FOR TYPE A BITUMINOUS CONCRETE BERM WHEN USED WITH ADJACENT LOAM AREA FOR APPLICATION WITH SIDEWALK USE 90° ANGLE FOR BACK OF BERM.
10. PROCESSED GRAVEL FOR SUBBASE COURSE SHALL CONFORM TO DOT STD. SPECIFICATION MATERIALS SECTION
11. MACHINE APPLIED TACK COAT SHALL BE APPLIED ON TOP OF BINDER COURSE BEFORE FINAL PAVEMENT. TACK COAT SHALL CONFORM TO DOT. STD. SPECIFICATIONS MATERIALS SECTION

PAVEMENT, SIDEWALK AND WALKWAY DETAIL

NOT TO SCALE

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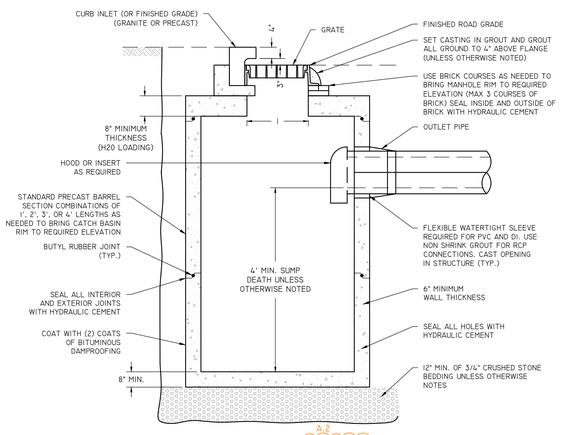
Sheet Contents
DETAIL SHEET (1 OF 3)

Project Number. 6790

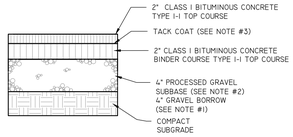
Drawing No.
C006

Sheet 6 of 8



Precast Concrete Catch Basin or Manhole With Oil And Water Separator Detail

NOT TO SCALE

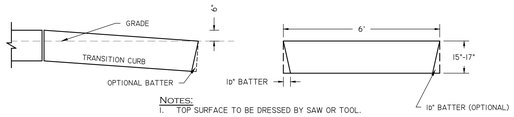


Notes:

1. GRAVEL BORROW SHALL CONFORM TO DOT STD. SPECIFICATION MATERIALS SECTION
2. PROCESSED GRAVEL FOR SUBBASE COURSE SHALL CONFORM TO DOT STD. SPECIFICATION MATERIALS SECTION
3. MACHINE APPLIED TACK COAT SHALL BE APPLIED ON TOP OF BINDER COURSE BEFORE FINAL PAVEMENT. TACK COAT SHALL CONFORM TO DOT. STD. SPECIFICATIONS MATERIALS SECTION

Bituminous Concrete Pavement Detail

NOT TO SCALE



Notes:

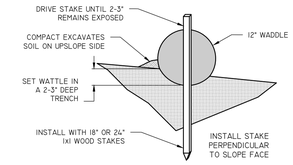
1. TOP SURFACE TO BE DRESSED BY SAW OR TOOL.

6' Precast Transition Curb

NOT TO SCALE

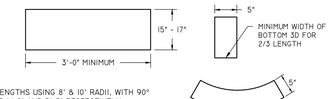
Erosion & Sedimentation Control:

1. BEGIN AT THE LOCATION WHERE WATTLE IS TO BE INSTALLED BY EXCAVATING 2-3" DEEP x 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24" STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
4. CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF STRAW WATTLE FOR DURATION OF CONSTRUCTION.
5. EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
6. LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.



Straw Wattle (Or Silt Sock) Detail

NOT TO SCALE

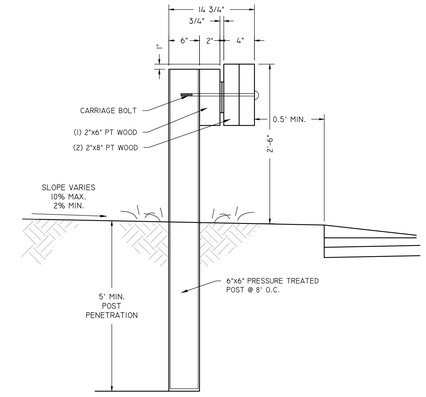


Notes:

1. MAXIMUM LENGTHS USING 8' & 10' RADII, WITH 90° ANGLE, ARE 4'-2" AND 5'-3" RESPECTIVELY.
2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
3. TOP SURFACE TO BE DRESSED BY SAW.
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 100' OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 100' RADIUS.

Precast Concrete Curb

NOT TO SCALE



Timber Guardrail Detail

NOT TO SCALE

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Sheet Contents

DETAIL SHEET (2 OF 3)

Project Number. 6790

Drawing No.

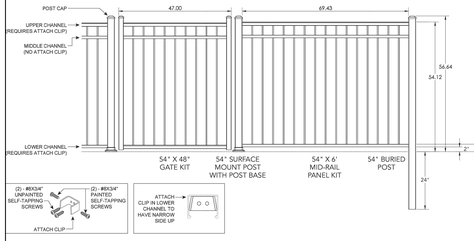
C007

Sheet 7 of 8

ALUMINUM FENCE INSTALLATION INSTRUCTIONS

FENCE ASSEMBLY OVERVIEW

- 6' X 54" PANELS WITH MIDRAIL SHOWN
- POST AND PANEL HEIGHTS VARY BY FENCE SYSTEM
- BURIED POST DEPTHS AND PANEL WIDTHS ARE CONSISTENT BETWEEN SYSTEMS



ITEMS REQUIRED FOR INSTALLATION

SAFETY GLASSES, TAPE MEASURE, PENCIL, LEVEL, MITER SAW WITH NON-FERROUS BLADE, IMPACT DRIVER (OR CORDLESS DRILL), 4 CLAMPS, 3/16" DRILL BIT, CONCRETE DRILL BIT (SURFACE MOUNT POSTS), 6" #2 SQUARE DRIVE BIT

ITEMS REQUIRED FOR BURIED POSTS: WOOD STAKES, HAMMER/MALLET FOR WOOD STAKES, MASONRY STRING, POWER AUGER OR POST HOLE DIGGER, SHOVEL, CONCRETE MIX

IMPORTANT NOTES:

- Actual fence panel widths: 6' Panels = 69.43"
- 3" posts are required to reach 6' lengths.
- Panel attach kits are included with panel kits. If panels are cut down and used as two pieces, additional panel attach kits may be purchased separately.
- Fence Panels are slightly adjustable and will accommodate sloped ground surfaces up to an 8° angle, but will reduce the distance allowed between posts. CAUTION: Over adjusting panels will cause loose and rattling pickets.
- 45° fence angles require 22.5° clips applied to each side of the post. The 22.5° clip kit is sold SEPARATELY.
- These Instructions cover installation of Aluminum Fence. Please visit Manufacturer's website for other instructions and products.
- These instructions cover installation of 6' W x 48" H panels and 6' W x 54" Mid-Rail Panels. Most illustrations are based on the 6' W x 54" H panels.
- It is the responsibility of the installer to meet all local code requirements and obtain all required building permits. The installer should determine and implement appropriate installation techniques for each installation situation. The manufacturer or its reseller shall not be held responsible for improper or unsafe installation.

BEFORE YOU BEGIN:

- Check your local zoning laws.
- Local zoning laws and Home Owners Associations may regulate the location, style and height of your fence or even require a permit signoff beforehand.
- Check local codes for frost line depth and regulations.
- Contact your local utilities companies.
- You must have the utility companies clearly mark your property for electrical, gas or water lines to avoid puncturing any unseen underground utilities.
- Check for pool equipment and utility lines. Typically, a utility company does not mark private underground lines. If you are not 100% certain, contact your pool installer for assistance and ask them to mark all underground lines.

WARNINGS:

- Improper installation of this product can result in personal injury. Always wear safety goggles when cutting, drilling and assembling the product.
- Incorrect installation may cause harm to the product or individual.
- DO NOT attempt to assemble products if parts are missing or damaged.

ALUMINUM FENCE INSTALLATION INSTRUCTIONS

A LAY OUT THE PERIMETER

FOR BURIED POSTS:

1. Establish your fence line by staking out the area you wish to enclose. Place a stake at all corners, then stretch a masonry string between them to provide straight guide lines. (Dia.1) TIP: Set the string at exactly 3 1/16" above the ground surface. This will help later to set posts and clips to the correct height.
2. Locate each point in which you will need an end, corner or gate post and mark it with a stake (Dia. 1). The maximum gap between end posts and a wall or other structure should be less than a 4".
3. Mark the location of all inline posts with stakes. For 6' sections using 3" posts, measure 72" between centers (Dia. 1). Actual fence panel widths: 6' Panels = 69.43". 3" posts are required to reach 6' lengths. TIP: Fence panels will allow for a MAXIMUM of 72.43" on center. It is easier to cut a panel to a shorter width than to relocate post(s) which are too far apart.

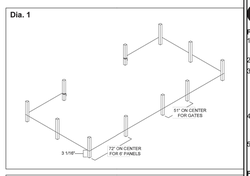
IMPORTANT NOTE: Installing on sloped terrain will reduce distance between posts. Panels can be racked up to 8°. Over adjusting panels can cause loose and rattling pickets. On sloped terrain, it is recommended to test fit and measure panels by setting them on the ground, adjusting for level and measuring the horizontal width from end to end. Be sure to compensate for the angle as panels should be cut at an angle to align with the posts. (Dia. 2)

4. Mark the location of gate(s) by placing a stake at each post. Fence gates are 47" wide and require a space of 48" between posts, so 3" posts should measure 51" from center to center. Fence gates cannot be racked and hinges must align, so the posts on each side of gates must be plum and level with each other. (Dia. 3)
5. The maximum gap between end posts and a wall or other structure should be less than a 4".

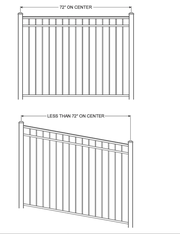
FOR SURFACE MOUNT POSTS:

1. Establish your fence line by marking each point in which you will need an end, corner or gate post. The maximum gap between end posts and a wall or other structure should be less than a 4".
2. Mark the location of all inline posts. For 6' sections using 3" posts, measure 72" between centers (Dia. 2). Actual fence panel widths: 6' Panels =69.43". 3" posts are required to reach 6' lengths. TIP: Fence panels will allow for a MAXIMUM of 72.43" on center. It is easier to cut a panel to a shorter width than to relocate post(s) which are too far apart.
3. Mark the location of gate(s). Fence gates are 47" wide and require a space of 48" between posts, so 3" posts should measure 51" from center to center. Fence gates cannot be racked and hinges must align, so the posts on each side of gates must be plum and level with each other. (Dia. 3)

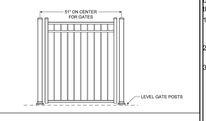
Dia. 1



Dia. 2



Dia. 3



ALUMINUM FENCE INSTALLATION INSTRUCTIONS

B INSTALL POSTS

FOR BURIED POSTS:

1. Dig a post hole 6" in diameter and down to your specified frost line. Ideally, holes will have a mushroom shape so they are flared out near the bottom.
2. Pour mixed concrete into the hole to bring the depth to 12" below grade.
3. Align the post centered with staked/marked location and slide the post into the hole about 12" into the mixed concrete, checking to make sure it sits at exactly 24" deep. Post height varies by fence system, so it may be helpful to pre-measure and mark posts or to measure exposed portion of post. Use a level on adjacent sides to bring the post to plumb.
4. Add mixed concrete to fill the hole to 3-4" below grade while keeping the post centered and plumb. Place some dirt on top of the hole and pack it tight. This will help hold the post in place.
5. Repeat this process for all additional posts. TIP: It may be helpful to install corner posts, then stretch another masonry string between the tops of them after concrete sets. This is helps to align inline posts.

FOR SURFACE MOUNT POSTS:

1. For residential deck applications, install proper post blocking as per (Dia. 5). Use proper attachment screws or anchors as directed. (post-to-surface screws are not included with kits).
2. For residential deck applications, pre-drill through deck boards and into blocking with a 3/16" drill bit. For residential concrete applications, pre-drill and secure with concrete anchors. For all other surfaces, check local zoning and/or building codes or consult a licensed professional.
3. Level and plumb post using shims.
4. Secure posts to surface with suggested screws. (Dia. 5)
5. Do not install post caps until all fence panels are installed.

C PREPARE POSTS

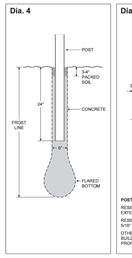
1. For all sides of posts which will hold a fence panel, measure 3 1/16" from ground/surface and place a pencil mark for location of the top edge of the lower attach clip. (Dia. 6) This measurement provides a 2" gap between the lower channel and the ground/surface and this may be adjusted. NOTE: Ensure panel will fit below post caps if adjusting for larger bottom gap.
2. Center the lower attach clip with narrow side up on post and secure with (2) - #8x3/4" Unpainted Self-tapping Screws.
3. Repeat this for all sides of posts which will support a fence panel.

D INSTALL GATE(S)

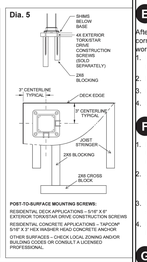
After concrete has set, start the installation of fence panels at an end or corner post. If installing a gate, it is recommended to install the gate first and then install panels next. If you're not installing a gate, skip this section.

1. Confirm posts on both sides of gate are centered with staked/marked locations, level with each other, and measure 51" from center to center (or 48" inside measurement). (Dia. 3)
2. The tops of the gate frame may be cut down to match the height of the fence posts (Optional). (Dia. 7)
3. Install the gate hinges following the instructions provided in hinge package. Gate kits include hinges with 16 self-tapping screws. It is recommended to use (also included) (8) 10-32 x 3.5" bolts for the 3" fence posts, and (8) 10-32 x 2.5" bolts for the 2" gate frame. These also include a flat washer, split lock washer, and nut for use on the backside. When using this hardware, mark and pre-drill all holes. When installing 54" gates with the open mid-rail, the top hinge MUST be placed between the top rail and midrail to be able to access the bolts. (Dia. 7)
4. Install the gate latch following the instructions provided in latch package.

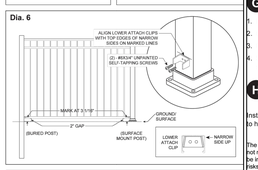
Dia. 4



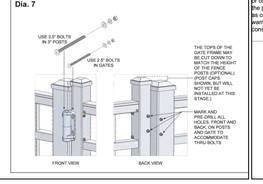
Dia. 5



Dia. 6



Dia. 7



ALUMINUM FENCE INSTALLATION INSTRUCTIONS

E MARK AND CUT FENCE PANELS

After concrete has set, start the installation of fence panels at an end or corner post. If installing a gate, it is recommended to install that first, then work out from there.

1. Clamp or hold fence panel against post and adjust for equal end spacing. (Dia. 8)
2. Mark the upper and lower channels.
3. Cut fence panel 1/16" less than opening size.
4. Clean cut areas and apply touch-up paint on exposed ends.

F INSTALL FENCE PANELS

1. Insert upper attach clips into upper channel of panel on each end. (Dia. 9) Upper attach clips may be placed in either orientation with the narrow side up or down.
2. Slide lower channel of pre-cut panel down onto lower attach clips (Dia. 9). TIP: Set the panel in at a slight angle, reach through the pickets and pull open up the bottom channel by hand and slide it onto the lower attach clips.
3. Using (4) - #8x3/4" Unpainted Self-tapping Screws, attach the upper two clips to the post.
4. Using (8) - #8x3/4" Painted Self-tapping Screws, secure the upper and lower attach clips to the panel.

G INSTALL FENCE CAPS (UPPER CHANNEL COVERS)

1. Measure between posts at the upper channel. (Dia. 10)
2. Cut Fence Caps 1/16" less than opening.
3. Clean cut areas and apply touch-up paint on all exposed metal.
4. Snap each Fence Cap over the upper fence channel until properly seated. (Dia. 10)

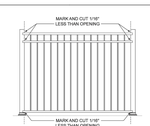
H INSTALL POST CAPS AND POST HOLE PLUGS

Install post caps and post hole disks. It is recommended to use silicone caulk to hold these in place. (Dia. 11)

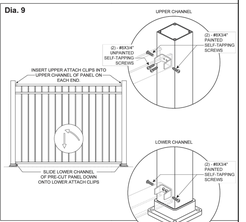
The diagrams and instructions in this brochure are for illustration purposes only and are not meant to replace a licensed professional. Any construction or use of the product must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction or use of this product. The consumer or contractor should take all necessary steps to ensure the safety of everyone involved in the project, including, but not limited to, wearing the appropriate safety equipment. Except as contained in the written limited warranty, The manufacturer does not provide any other warranty, either express or implied, and shall not be liable for any damages, including consequential damages.

3/22 - Version 1.1 - part #WWP401000

Dia. 8

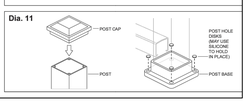


Dia. 9



Dia. 10

Dia. 11



SR 1.0

SEPARATOR ROW™ SPECIFICATIONS:

GENERAL:

1. CULTEC'S SEPARATOR ROW IS USED AS AN INEXPENSIVE MEANS OF REMOVING TOTAL SUSPENDED SOLIDS FROM THE CHAMBER SYSTEM, AS WELL AS PROVIDING EASIER ACCESS FOR INSPECTION AND MAINTENANCE.

2. THE SEPARATOR ROW PERFORMANCE SHALL BE TESTED AND VERIFIED TO THE PROTOCOLS AND PROCEDURES AS DEFINED BY ENVIRONMENTAL TECHNOLOGY VERIFICATION (ETV) CANADA TO ACHIEVE 80% TSS REMOVAL.

INSTALLATION INSTRUCTIONS:

A SEPARATOR ROW IS INSTALLED ON A 1-2 INCH [25-51 MM] WASHED, CRUSHED STONE BASE. TYPICALLY, THE CULTEC CHAMBER MODEL USED FOR THE SEPARATOR ROW IS THE SAME CHAMBER USED THROUGHOUT THE ENTIRE CHAMBER BED.

STORMWATER IS DISTRIBUTED TO THE SEPARATOR ROW BY A PRIMARY FEED SYSTEM THAT DIVERTS FLOW TO THE SEPARATOR ROW AND A SECONDARY BYPASS FEED SYSTEM THAT DIVERTS THE FLOW OF CLEAN WATER TO THE OTHER PARTS OF THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM. THE DISTRIBUTION SYSTEM MAY BE BY PIPES SET AT A LOWER ELEVATION THAT PERMIT THE FIRST FLUSH TO THE SEPARATOR ROW VERSUS OTHER PARTS OF THE UNDERGROUND STORMWATER SYSTEM. THIS INITIAL FLOW MAY BE MANAGED BY A BAFFLE OR WEIR. THE SIZING OF THE PIPE(S) THAT PROVIDE STORM WATER TO THE SEPARATOR ROW IS TO BE DETERMINED BY THE DESIGN ENGINEER AND IS BASED UPON THE REQUIREMENT TO ACCOMMODATE THE DESIGN FLOW AND SERVICE CONVENIENCE.

THE CHAMBERS UTILIZED IN THE SEPARATOR ROW ARE TO BE COMPLETELY WRAPPED WITH CULTEC NO. 410 NON-WOVEN GEOTEXTILE. THIS CREATES A PASS-THROUGH FILTER ARRANGEMENT TO SEPARATE TOTAL SUSPENDED SOLIDS IN THE TRANSFER OF STORM WATER TO OTHER CHAMBERS THROUGHOUT THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM.

ONCE WRAPPED, THE SEPARATOR ROW IS TO THEN PLACED ENTIRELY OVER 1 LAYER OF CULTEC No. 4800 WOVEN GEOTEXTILE. THIS WOVEN GEOTEXTILE PROVIDES A DURABLE SURFACE WITHIN THE ROW FOR MAINTENANCE PROCEDURES AS WELL AS TO PREVENT ANY SCOURING OF THE STONE BASE DURING HIGH PRESSURE JETTING.

THE RECOMMENDED INSTALLATION OF SEPARATOR ROW CHAMBERS, IN REGARD TO STONE SEPARATION AND STONE ABOVE THE UNIT, ALONG WITH OTHER MINIMUM BURIAL, MATERIALS AND METHOD SPECIFICATIONS DETAILED FOR THE PROPER INSTALLATION, IS THE SAME AS CULTEC© S REQUIREMENT DETAILED IN THE COMPANY© S INSTALLATION GUIDELINES WITH THE EXCEPTION OF THE PLACEMENT OF THE REQUIRED FILTERING FABRICS. PLEASE REFER TO CULTEC© S CURRENT INSTALLATION INSTRUCTIONS FOR STORMWATER CHAMBERS AS A GUIDE.

MAINTENANCE PROCEDURES:

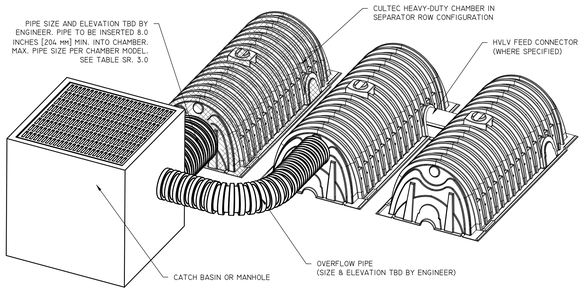
CULTEC RECOMMENDS INSPECTIONS OF THE SEPARATOR ROW TO BE PERFORMED EVERY SIX MONTHS FOR THE FIRST YEAR. THE FREQUENCY OF INSPECTION CAN THEN BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION.

WHILE CLEANING IS POSSIBLE FROM A SINGLE MANHOLE IN SHORTER LINES, A CLEAN-OUT OPTION FROM EITHER END OF A LINE IS PREFERABLE, PARTICULARLY FOR LONGER RUNS. CLEANING INVOLVES FLUSHING SEDIMENT FROM THE BASE FABRIC OF THE SEPARATOR ROW.

ACCESS WILL BE PROVIDED VIA A MANHOLE(S) LOCATED AT THE END(S) OF THE ROW FOR CLEAN OUT.

MAINTENANCE OF THE SEPARATOR ROW IS TO BE ACCOMPLISHED WITH A JETVAC PROCESS.

THE JETVAC IS TO BE SENT DOWN THE ENTIRE LENGTH OF THE SEPARATOR ROW. AS THE HIGH PRESSURE WATER NOZZLE IS RETRIEVED, THE CAPTURED SEDIMENTS ARE PUSHED BACK INTO THE MANHOLE FOR VACUUMING.



SR 2.0

TYPICAL SEPARATOR ROW CONFIGURATION INLET CONNECTION DETAIL

NOT TO SCALE

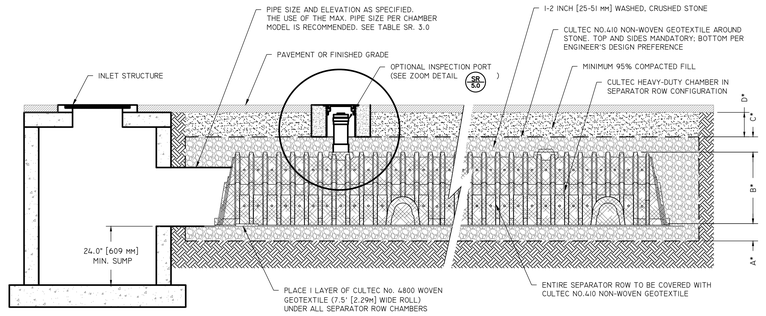
CULTEC CHAMBER MODEL						
	DESCRIPTION	CONTACTOR 100HD	RECHARGER 150XLHD	RECHARGER 280HD	RECHARGER 330XLHD	RECHARGER 902HD
A*	MIN. DEPTH OF STONE BASE	6" 152 mm	6" 152 mm	6" 152 mm	6" 152 mm	9" 229 mm
B	CHAMBER HEIGHT	12.5" 318 mm	18.5" 470 mm	26.5" 673 mm	30.5" 775 mm	48" 1219 mm
C*	MIN. DEPTH OF STONE REQUIRED ABOVE UNITS FOR TRAFFIC APPLICATIONS	6" 152 mm	6" 152 mm	6" 152 mm	6" 152 mm	12" 305 mm
D	MIN. DEPTH REQUIRED OF 95% COMPACTED FILL FOR PAVED TRAFFIC	8" 203 mm	8" 203 mm	8" 203 mm	10" 254 mm	12" 305 mm
E	MAX. DEPTH OF COVER ALLOWED ABOVE CROWN OF CHAMBER	12' 3.65 m	12' 3.65 m	12' 3.65 m	12' 3.65 m	8.3' 2.53 m
	MAX. PIPE SIZE TO CHAMBER ENDWALL/ENDCAP	10" 250 mm	12" 300 mm	18" 450 mm	24" 600 mm	24" 600 mm

NOTE*: STONE ABOVE AND BELOW UNITS MAY VARY PER SYSTEM. SEE SYSTEM LAYOUT FOR STONE REQUIREMENTS

SR 3.0

CROSS SECTION TABLE REFERENCE

NOT TO SCALE

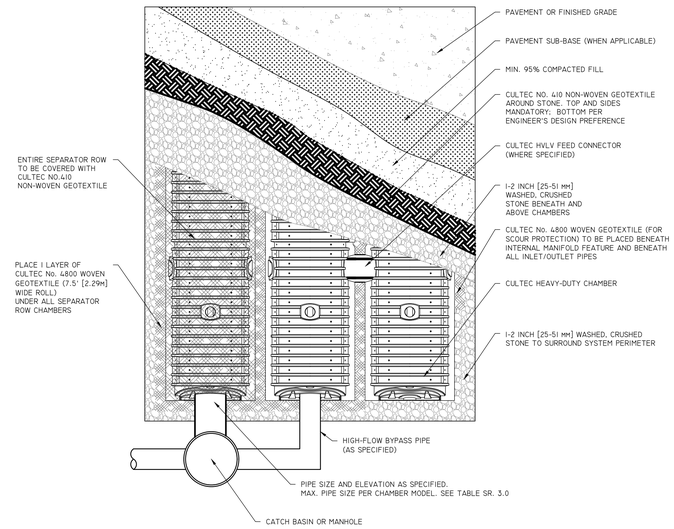


* SEE SR 3.0 - CROSS SECTION TABLE REFERENCE

SR 7.0

TYPICAL SEPARATOR ROW CONFIGURATION CROSS SECTION WITH INSPECTION PORT DETAIL

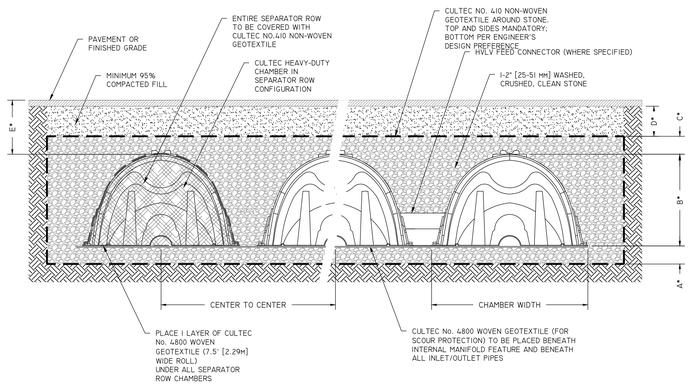
NOT TO SCALE



SR 4.0

TYPICAL SEPARATOR ROW CONFIGURATION PLAN VIEW

NOT TO SCALE

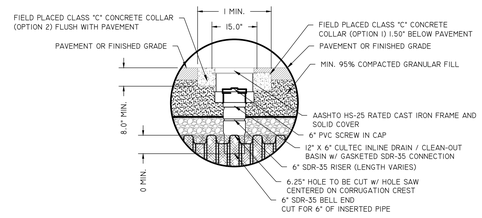


* SEE SR 3.0 - CROSS SECTION TABLE REFERENCE

SR 6.0

TYPICAL SEPARATOR ROW CONFIGURATION CROSS SECTION

NOT TO SCALE



SR 5.0

TYPICAL INSPECTION PORT - ZOOM DETAIL

NOT TO SCALE

Certification

COMMONWEALTH OF MASSACHUSETTS
PAUL D. CARLSON
CIVIL
NO. 40995
REGISTERED PROFESSIONAL ENGINEER

Drawn by LJG

Checked by PDC

Revised on

ADDENDUM #2 - 6.28.2024

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DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

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DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

Issued On 6/28/2024

Sheet Contents

DETAIL SHEET (3 OF 3)

Project Number. 6790

Drawing No.

C008

Sheet 8 of 8

I:\23-058 50 Elm Street - Dedham MA - RGB - Water Department Storage Building\CAD\23-058 - ENGR Base - 004 - Final Revisions.dwg, 7/2/2024 3:07:11 PM

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AF	ABOVE FLOOR
ACP	ACCESS PANEL
ACC	ACCESSORY, ACCESSORIES
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
ADH	ADHESIVE
ADJ	ADJUSTABLE
AGG	AGGREGATE (S)
A/C	AIR CONDITIONING
AVB	AIR/VAPOR BARRIER
AC	ALTERNATING CURRENT
ALT	ALTERNATE
ALUM	ALUMINUM
AT	ALUMINUM THRESHOLD
ANC	ANCHOR (S) ANCHORAGE (S)
AB	ANCHOR BOLTS
∠	ANGLE
ANOD	ANODIZED
ANT	ANTENNA (E)
APP	APPROVED, APPROVAL
APPROX	APPROXIMATE
APRT	ACOUSTICAL PARTITION
AD	AREA DRAIN
@	AT
ATT	ATTACH, ATTACHMENT
ALD	AUTOMATIC LOUVER DAMPER
AVE	AVENUE
AVG	AVERAGE
BTB	BACK TO BACK
BM	BEAM
BMK	BENCH MARK
BG	BEARING
BPL	BEARING PLATE
BIT	BITUMINOUS
BC	BOTTOM OF CURB
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BF	BOTTOM OF FOOTING
BO	BOTTOM OF
BOC	BOTTOM OF CURB
BS	BOTH SIDES
BW	BOTH WAYS
BOT	BOTTOM
BKT	BRACKET
BK	BRICK
BRG	BRIDGING, BRIDGE (D)
BTU	BRITISH THERMAL UNIT
BLDG	BUILDING
BUR	BUILT-UP ROOFING
CK	CHALK
CBT, CAB	CABINET
CPT	CARPET
CI	CAST IRON
CB	CATCH BASIN
CLG	CEILING
CTR	CENTER
CL, ℄	CENTERLINE
CTC	CENTER TO CENTER
C	CENTIGRADE (CELSIUS)
CT	CERAMIC TILE
CLF	CHAIN-LINK FENCE
CB	CHALKBOARD
CH, [	CHANNEL
CM	CENTIMETER
CV	CHECK VALVE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CKT	CIRCUIT
CO	CLEANOUT
CLR	CLEAR, CLEARANCES
CLS	CLOSURE
CW	COLD WATER
C.COL	COLUMN
COMP	COMPRESS (ED),(ION),(IBLE)
CONC	CONCRETE (PORTLAND CEMENT)
CMU	CONCRETE MASONRY UNITS
COND	CONDUIT
CX	CONNECTION
CONT	CONTINUOUS
CLL	CONTRACT LIMIT LINE
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CFL	COUNTERFLASHING (S)
CS	COUNTERSINK, COUNTERSUNK
CU	CUBIC
CU	COPPER
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CF	CUBIC FEET
CU IN	CUBIC INCH
CY	CUBIC YARD
CYL	CYLINDER, CYLINDRICAL
DPR	DAMPER
DP	DAMPPROOF (ED),(ING)
DL	DEAD LOAD
DB	DECIBEL
DEG	DEGREE
DEM	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DET	DETAIL
DIA or ∅	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DC	DIRECT CURRENT
DCX	DISCONNECT (ION)
DPN	DISPENSER
DPL	DISPOSAL, DISPOSABLE
DR	DOOR
DBL	DOUBLE
DH	DOUBLE-HUNG
DTA	DOVETAIL ANCHOR
DTS	DOVETAIL ANCHOR SLOT
DN	DOWN
DS	DOWNSPOUT
D	DRAIN, DRAINAGE LINE
DI	DRAIN INLET
DT	DRAIN TILE
DWG,DRWG	DRAWING (S)
DF	DRINKING FOUNTAIN
DMH	DROP MANHOLE
EIFS	EXT. INSUL FINISH SYSTEM
EW	EACH WAY
EA	EACH
EFF	EFFICIENCY
E, ELECT.	ELECTRIC, ELECTRICAL
EP	ELECTRIC PANEL
EWC	ELECTRIC WATER COOLER
EL, ELEV	ELEVATION
ENC	ENCLOSE, ENCLOSURE
EQ, =	EQUAL (TO)
EQP, EQUIP	EQUIPMENT
EXH	EXHAUST
ED	EXHAUST DUCT
EF	EXHAUST FAN
EH	EXHAUST HOOD
EXIST.	EXISTING
EXP	EXPANSION
EXP	EXPOSED
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
ET	EXTENDED, EXTENSION
EPS	EXTRUDED POLYSTYRENE
EXT	EXTERIOR
FAB	FABRICATE
FO	FACE OF
FS, FOS	FACE OF STUD
FAS	FASTEN, FASTENER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FNDR	FEMININE NAPKIN DISPENSER UNIT
FNDP	FEMININE NAPKIN DISPOSAL UNIT
FF	FINISH FLOOR
FBD	FIBERBOARD
FGL	FIBERGLASS
FIL	FILLER (S)
FIN	FINISH
FFE	FINISH FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FTR	FINNED TUBE RADIATION
FA	FIRE ALARM STATION
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC, FXC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FH	FIRE HYDRANT
FMN	FIRE MAIN
FP	FIREPROOF (ING)
FR	FIRE RESISTANT
FRC	FIRE-RESISTANT COATING
FRT	FIRE-RETARDANT TREATMENT
FSP	FIRE STANDPIPE
FXD	FIXED
FXT	FIXTURE
FLG	FLASHING
FHCS	FLAT HEAD COUNTERSUNK SCREW
FHWS	FLAT HEAD WOOD SCREW
FLX	FLEXIBLE
FLR	FLOOR, FLOORING
FD	FLOOR DRAIN
FGR	FLOOR GRILLE (REGISTER)

FLU	FLUORESCENT
FL	FLOW LINE
FT	FOOT, FEET
FC	FOOTCANDLES
FTG	FOOTING
FWK	FORMWORK
FND, FDW	FOUNDATION (WALL)
FR	FRAME (D),(ING)
FBO	FURNISHED BY OTHERS
F & I	FURNISH & INSTALL
FURR	FURRING
FUT	FUTURE
FAI	FRESH AIR INTAKE
FRP	FIBER REINFORCED PLASTIC
FSL	FUSIBLE LINK
GAL	GALLON (S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GALV	GALVANIZED
GI	GALVANIZED IRON
GST	GALVANIZED STEEL
G	GAS
GKT	GASKET (ED)
GAV	GATE VALVE
GA	GAUGE
GLB	GLASS BLOCK
GMU	GLAZED MASONRY UNITS
GB	GRAB BARS
GRD	GRADE, GRADING
GRT	GRANITE
GVL	GRAVEL
GR	GRILLE
GD	GROUND (ED)
GT	GROUT (ED)
GYP. BD.	GYPSUM WALLBOARD
GWB	GYPSUM WALLBOARD
GYL	GYPSUM LATH
GFRC	GLASS FIBER REINF. CONC.
GPL	GYPSUM PLASTER
HH	HAND HOLD
HA	HANGER
HBD	HARDBOARD
HC	HANDICAP(PED)
HDN	HARDENER (ED)
HDW	HARDWARE
HWD	HARDWOOD
HD	HEAD
HDR	HEADER
HDE	HEAT DETECTOR
HTG	HEATING
HAC	HEATING & AIR CONDITIONING
H & V	HEATING & VENTILATING
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HVC	HEATING, VENTILATING, COOLING
Hz	HERTZ (CYCLES PER SECOND)
HPL	HIGH PRESSURE LAMINATE
HV	HIGH VOLTAGE
HWY	HIGHWAY
HO	HOLD OPEN
HCWD	HOLLOW CORE WOOD
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HK	HOOK (S)
HR	HOUR
HOR, HORZ.	HORIZONTAL
HP	HORSEPOWER
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
HWC	HOT WATER, CIRCULATOR
HWF	HOT WATER FAUCET
HWH	HOT WATER HEATING
HWT	HOT WATER TANK
HYD	HYDRANT
IN	INCH
INCL	INCLUDING (ED),(SIVE)
INFO	INFORMATION
ID	INSIDE DIAMETER
INSL	INSULATE (D),(ATION)
IMC	INSULATED METAL CLAD
INT	INTERIOR, INTERNAL
INV	INVERT
IE	INVERT ELEVATION
IDM	ISOLATE DISC. METALS
JAN	JANITOR
JT	JOINT
JF	JOINT FILLER
JS	JOINT SEALER
J	JOIST
JCT	JUNCTION
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
K	KIP
KD	KNOCK DOWN
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE (D)
LAT	LATERAL
LAV	LAVATORY
LB	LAG BOLT
LBL	LABEL
LBS, #	POUND'S
LCC	LEAD COATED COPPER
LDR	LEADER
LH	LEFT-HAND
LWOD	LESS WIDTH OF DOOR
LIN	LINEN
LP	LIGHT PROOF
LS	LIMESTONE
LTL	LINTEL
LL	LIVE LOAD
LW	LIGHT WEIGHT
LP	LOW PRESSURE
LOC	LOCATION
LKR	LOCKER
LG	LONG, LENGTH
LONG	LONGITUDINAL
L or LH	LONG SPAN STEEL JOIST
LVR	LOUVER
LV	LOW VOLTAGE
LVT	LUXURY VINYL TILE
MB	MACHINE BOLT
MH	MANHOLE
MFD,MFR'D	MANUFACTURED
MFR	MANUFACTURER
MFG	MANUFACTURING
MBL	MARBLE
MK	MARK
MAS	MASONRY
MCJ	MASONRY CONTROL JOINT
MJ	MASONRY JOINT
MO	MASONRY OPENING
MTL	MATERIAL (S)
MAX	MAXIMUM
MC	MEDICINE CABINETS
MED	MEDIUM
MDF	MEDIUM DENSITY FIBERBOARD
MBR	MEMBER
MMB,MEMB	MEMBRANE
MTL	METAL
METC	METAL CLAD
ME	METAL EDGE
MRE	METAL ROOF DECK(ING)
M	METER (S)
MEZZ	MEZZANINE
MIC	MICROPHONE
MM	MILLIMETER
MWK	MILLWORK
MIN	MINIMUM
MIR	MIRROR
MIS	MISCELLANEOUS
MXV	MIXING VALVE
MOD	MODULAR
MLD	MOLDING
MDO	MEDIUM DENSITY OVERLAY
MT	MOUNT (ED), (ING)
MHT	MOUNTING HEIGHT
MUL	MULLION
NL	NAILABLE
NAT	NATURAL (FINISH)
NRC	NOISE-REDUCTION CO-EFFICIENT
NOM	NOMINAL
NC	NON-CORROSIVE
NIC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
NO,#	NUMBER
OC	ON-CENTER
K,L,H	OPEN-WEB STEEL JOIST
OPG, OPNG	OPENING
OPR	OPERATOR
OPP	OPPOSITE
O.H.,OPH	OPPOSITE HAND
OHS	OPPOSITE HAND SIMILAR

OSB	ORIENTED STRAND BOARD
OAE	OR APPROVED EQUAL
OZ	OUNCE (S)
OD	OUTSIDE DIAMETER
OA	OVERALL
OH	OVERHEAD
OHB	OVERHEAD BRACED
OHD	OVERHEAD DOOR
OF	OWNER FURNISHED
OFI	OWNER FURNISHED & INSTALLED
OFCI	OWNER FURNISH-CONTRACTOR INSTALL
OX	OXYGEN
PT	PRESSURE TREATED
PNT, PTD	PAINT, PAINTED
PR	PAIR
PNL	PANEL
PAR. //	PARALLEL
PBD	PARTICLE BOARD
PTN	PARTITION
PCT or %	PERCENT (AGE)
PF	PERFORATED (D)
PERIM	PERIMETER
PERP.	PERPENDICULAR
P	PHASE
P&I	PROVIDE & INSTALL
PLAS	PLASTER
PL	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNU	PNEUMATIC
POL	POLISH (ED)
PE	PORCELAIN ENAMEL
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PIC	POURED INPLACE CONCRETE
PDF	POWER DRIVEN FASTENER (ING)
PCC	PRECAST CONCRETE
PREFAB	PREFABRICATED
PRN	PREFINISH (ED)
PRF	PREFORMED
PM	PREMOLDED
PMTL	PRESSED METAL
PVT	PRIVATE
PROJ	PROJECT
PRTYL, ℄	PROPERTY LINE
PUB	PUBLIC
PA	PUBLIC ADDRESS SYSTEM
PB	PULL BOX
PU	PULL, PULL CHAIN
PP	PUMP
PD	PUMP DISCHARGE
PIV	POST INDICATOR VALUE
PC	PHYSICALLY CHALLENGED
PVC	POLY VINYL CHLORIDE
QT	QUARRY TILE
RW	RACEWAY
RAD	RADIATOR, RADIATION
RA, R	RADIUS
R	RISER
RL	RAIL, RAILING
RR	RAILROAD
RECP	RECEPTACLE
REF	REFERENCE
RFL	REFLECTIVE
RE	REFER TO
REG	REGISTER
RFC	REINFORCE (D) (ING)
RC	REINFORCED CONCRETE
REQ,REQ'D	REQUIRE(ED), REQUIREMENTS
R & S	REMOVE AND SALVAGE
R & D	REMOVE AND DISPOSE
R & R	REMOVE AND REINSTALL
RESIL	RESILIENT
RTN	RETAIN (ED) (ER) (ING)
RVS, REV	REVERSE (SIDE)
REV	REVISE (ED), REVISION
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RH	RIGHT HAND
ROW	RIGHT-OF-WAY
RD	ROOF DRAIN
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RU	RUBBER
RP	RUSTPROOF (ING)
SDL	SADDLE
SAN	SANITARY (SEWER)
SCN	SCREEN
SLT	SEALANT
SLR	SEALER
STG	SEATING
SEC	SECTION
SEL	SELECT (OR)
SPT	SEPTIC TANK
SVC	SERVICE
SSK	SERVICE SINK
STH	SHEATHING
SHT	SHEET
SH	SHELF, SHELVING
S & R	SHELF & ROD
SHR	SHOWER RECEPTOR
SIM	SIMILAR (TO)
SH	SINGLE HUNG
SK	SINK
SKL	SKYLIGHT
SL	SLEEVE
SDE, SD	SMOKE DETECTOR
SMV	SMOKE-VENTING HATCH
SCWD	SOLID CORE WOOD
SSM	SOLID SURFACE MATERIAL
SP	SOUNDPROOF
SPK	SPEAKER
SPEC	SPECIFICATIONS
SPF	SPECIFIED
SPR	SPRINKLER
SQ.	SQUARE
SF	SQUARE FOOT (FEET)
SY	SQUARE YARD
STAG	STAGGER
SS	STAINLESS STEEL
STD	STANDARD
ST	STEEL
STIFF	STIFFENER
STN	STONE
STO	STORAGE
SD	STORM DRAIN
ST	STREET
S	STRUCTURAL
SIP	STRUCTURAL INSULATED PANEL
SUP	SUPPORT
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTIC TILE
SUSP CEIL	SUSPENDED CEILING
SYM	SYMMETRY (ICAL)
SYS	SYSTEM
TB	TACKBOARD
TEL	TELEPHONE
TV	TELEVISION
TMP, TEMP	TEMPER (ED)
TCV	TEMPERATURE CONTROL VALVE
TP	TEST PIT
TZ	TERRAZZO
THM	THERMOMETER
THS	THERMOSTAT
TH	THICK, THICKNESS
THR	THRESHOLD
TCL	TIME CLOCK
TOL	TOLERANCE
TG, T & G	TONGUE AND GROOVE
TO	TOP OF
TOC	TOP OF CONCRETE / CURB
TOS, TS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSFORMER
TR	TRANSOM
TJI	TRUSS JOIST 'I' SECTION
TP	TURNING POINT
TYP	TYPICAL
TOM	TOP OF MASONRY
UHF	ULTRAHIGH FREQUENCY
UF	UNDERFLOOR (DUCT)
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UH	UNIT HEATER
UK	UNIT KITCHEN
UV	UNIT VENTILATOR
UAS	UPWARD ACTING SECTIONAL
VJ	V-JOINTED
VA	VACUUM
VAB	VACUUM BREAKER
VB	VAPOR BARRIER
VP	VAPORPROOF
VNR	VENEER
VE	VENT
VR, VTR	VENT THROUGH ROOF
VTR	VENTILATOR
VER, VERT	VERTICAL
VHF	VERY HIGH FREQUENCY
VLF	VERY LOW FREQUENCY

VI	VIBRATION ISOLATOR
VIF	VERIFY IN FIELD
VNL	VINYL
VCT	VINYL COMPOSITION TILE
VB	VINYL BASE
VF	VINYL FABRIC
VQT	VINYL QUARTZ TILE
VS	VINYL SHEET
VT	VINYL TILE
VIT	VITREOUS
VC	VITRIFIED CLAY
V	VOLT (AGE)
VWC	VINYL WALLCOVERING
WN	WAINSCOT
WH	WALL-HUNG
WHY	WALL HYDRANT
WTW	WALL TO WALL
W	WASTE
WR	WASTE RECEPTACLES
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WP	WATERPROOF (ED), (ING)
WPT (WP)	WORK (ING) POINT
WST	WEATHERSTRIPPING
WE	WEEPHOLE
WWF	WELDED WIRE FABRIC
WID	WIDE, WIDTH
WF,LF	WIDE-FLANGE BEAM
WG	WIRE GLASS
WM	WIRE MESH
W, W/	WITH
W/IN	WITHIN
WO, W/O	WITHOUT
WD	WOOD
WB	WOOD BASE
WBM	WOOD BEAM
WBO	WORK BY OTHERS
WBOR	WORK BY OWNER
WBT	WORK BY TENANT
WK	WORK
WKRM	WORKROOM
WI	WROUGHT IRON
XR	X-RAY
Y	WYE FITTING
Z	ZONE
ZC	ZINC COATED
ZS	ZEE STUD

GRAPHIC SYMBOLS

CROSS REFERENCE TAGS

DETAIL # → 1 — DRAWING # → A101 — **VIEW TITLE** — DRAWING TITLE — SCALE: 1/8" = 1'-0" — DRAWING SCALE

EXTERIOR ELEVATION IDENTIFICATION TAG: DETAIL # → 1; DRAWING # → A101

DETAIL REFERENCE (ENLARGED & DETAIL VIEW): DETAIL # → 1; DRAWING # → A101

SECTION REFERENCE: DETAIL # → 1; DRAWING # → A101

SECTION DETAIL IDENTIFICATION TAG: DETAIL # → 1; DRAWING # → A101

CONSTRUCTION SYMBOLS

WALL TAG - WALL TYPE → 1t; FIRE RATING → 1hr

FLOOR TAG - FLOOR TYPE → 1t; FIRE RATING → 1hr

ROOF TAG - ROOF TYPE → 1t; FIRE RATING → 1hr

PLAN WORK NOTES: NOTE WITHOUT ARROW INDICATE ENTIRE SPACE or AREA → A1; NOTE WITH ARROWS INDICATE A SPECIFIC AREA or ITEM → A1

ELEVATION WORK NOTES: NOTES WITHOUT ARROW INDICATE ENTIRE SPACE/AREA → A1; NOTES WITH ARROWS INDICATE SPECIFIC AREAS &/OR ITEMS → A1

DOOR TAG

101.2 — DOOR # FIRST 3 NUMBERS DENOTES ROOM WHERE DOOR IS LOCATED, DECIMAL # INDICATES DOORS IN ROOM

WINDOW TAG

A ← LETTER INDICATES WINDOW

ROOM IDENTIFICATION TAG: ROOM NAME → NAME; ROOM # → 101

PHYSICALLY CHALLENGED AND/OR HANDICAPPED ACCESSIBLE — HANDICAPPED TURNING RADIUS — HANDICAPPED CLEAR FLOOR AREA

DIMENSIONS

DIMENSIONS ARE TO FOS UNO — 1 1/4"

CENTERLINE ℄ — CENTERLINE BM ℄ BM — CENTERLINE COL ℄ COL — 1 1/4"

F.O. CMU — F.O. CMU — F.O. CMU — 1 1/4"

F.O. BRICK F.O. CONC — F.O. BRICK F.O. CONC — F.O. BRICK F.O. CONC

ALIGN SYMBOL — ALIGN

CENTERLINE SYMBOL ℄

FINISH FLOOR ELEVATION / DATUM IN PLAN — 100'-0"

PROJECT NORTH ARROWS — NORTH — REFERENCE NORTH

TRUE NORTH

1 G001 SITE ACCESS CONTROL

Scale: NTS

GENERAL NOTES

1. GENERAL CONDITIONS: THE GENERAL CONDITIONS FOR THIS CONTRACT SHALL BE AN AIA A201 DOCUMENT. RE: PROJECT MANUAL SPECIFICATION FOR DRAFT AND ANY PROPOSED AMENDMENTS.
2. SCOPE: WORK TO INCLUDE DEMOLITION & CONSTRUCTION AS INDICATED ON THE DRAWINGS & SPECIFIED HEREIN. EACH CONTRACTOR TO FURNISH ALL LABOR & MATERIALS NECESSARY FOR A COMPLETE INSTALLATION. EACH CONTRACTOR SHALL RESPECT THE WORK OF OTHER SUBCONTRACTORS & ARE TO BE RESPONSIBLE & LIABLE TO REPAIR OR REPLACE ANY DAMAGE CAUSED BY THEIR WORK.
3. CODES: ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL & STATE CODES. VARIATIONS MAY BE ACCEPTABLE BASED ON DIRECTION OF THE AUTHORITY HAVING JURISDICTION.
4. QUALITY: WORKMANSHIP SHALL BE OF THE HIGHEST TYPE, & WITH MATERIALS SPECIFIED. INSTALLATION & APPLICATION OF COMPONENTS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
5. EXAMINATION OF THE SITE & DOCUMENTS: THE CONTRACTOR, PRIOR TO SUBMITTING A PROPOSAL, SHALL VISIT THE SITE & EXAMINE CONDITIONS & LIMITATIONS WHICH EFFECT THE CONTRACT. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS.
6. GUARANTEE: ALL MATERIALS & WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE UNLESS SPECIFIED OTHERWISE. VERIFY SPECIFICATIONS DO NOT DICTATE LONGER DURATION OF TIME FOR CERTAIN ITEMS.
7. ALL SECTIONS, DETAILS, MATERIALS, ETC. SHOWN &/OR NOTED IN PLAN OR SECTION SHALL APPLY TO OTHER SIMILAR LOCATIONS UNLESS OTHERWISE NOTED.
8. THE GENERAL CONTRACTOR SHALL SAFELY SHORE, BRACE, OR SUPPORT ALL WORK AS REQUIRED. THIS WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. NO DIRECTION, OR REVIEW OF SYSTEMS OR METHODS BY THE ARCHITECT SHALL RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY.
9. THE INTENT OF THESE DRAWINGS DOES NOT SHOW NOR INDICATE ALL FASTENING OR FRAMING TECHNIQUES OR DEVICES.
10. TRASH REMOVAL: THE GENERAL CONTRACTOR IS RESPONSABLE FOR DUMPSTER & PICKUP SERVICE FOR ALL CONSTRUCTION DEBRIS (DUMPSTER LOCATION TO BE COORDINATED WITH THE OWNER). AT END OF EACH DAY, THE GC SHALL REMOVE TRASH & DEBRIS FROM THE SITE OR THE BUILDING. IF TRASH & DEBRIS ARE NOT REMOVED, THE OWNER MAY (AT HIS OPTION) PAY FOR THIS REMOVAL & BACK CHARGE THE CONTRACTOR.
11. STORAGE: THE CONTRACTOR SHALL PROVIDE ON SITE WEATHER PROTECTED STORAGE SPACE, IE; TRAILER, CON-X BOX, FOR STORAGE OF CONSTRUCTION MATERIALS. IN GENERAL STORAGE WITHIN AN EXISTING BUILDING OR NEW CONSTRUCTION WILL NOT BE PERMITTED.
12. PROTECTION: THE CONTRACTOR SHALL CLOSE UP & SEAL OFF (DUST FREE) ALL AREAS NOT INVOLVED IN CONSTRUCTION, & SHALL PROTECT ALL PUBLIC & ADJACENT AREAS FROM DAMAGE.
13. TEMPORARY SERVICES: THE CONTRACTOR WILL PAY FOR EXISTING SERVICES (WATER, TELEPHONE & ELECTRICITY) & WILL TURN OVER THESE SERVICES TO THE OWNER UPON FINAL ACCEPTANCE OF THIS PROJECT (COORDINATE WITH OWNERS REPRESENTATIVE).
14. DAMAGE: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING BUILDING, WALLS, CEILINGS, FLOORS, FURNITURE & FURNISHINGS. SURFACE DAMAGED DUE TO CONSTRUCTION ACTIVITY TO BE PATCHED, REPAIRED, OR REPLACED AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES.
15. ALL INTERIOR PLYWOOD TO BE FIRE RETARDANT TREATED (FRT). PLYWOOD ON EXTERIOR FACES TO BE MOISTURE RESISTANT EXTERIOR GRADE.
16. PROVIDE PRESSURE TREATED BLOCKING IN WALLS FOR ALL MISC WALL MOUNTED EQUIPMENT.

Certification

Drawn by	ADC
Checked by	AHB, JJR

Revised on

#	(DATE)	(DESCRIPTION)
2	6/28/2024	Addendum #2

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Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

Issued On 5/24/2024

Sheet Contents

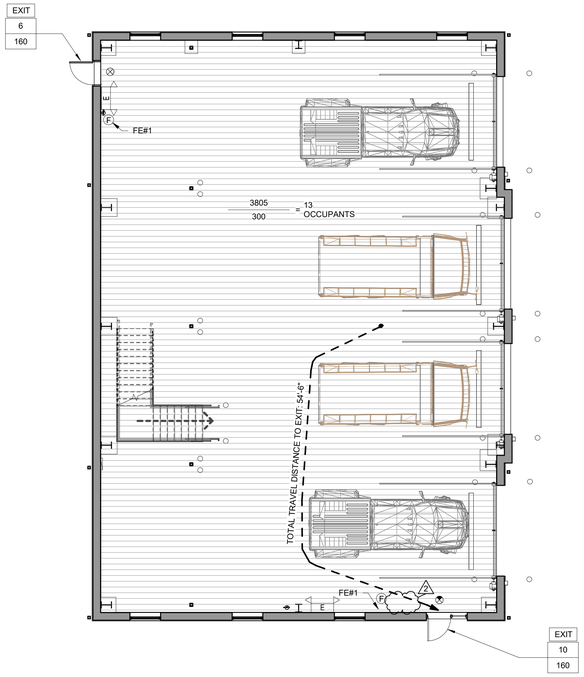
ABBREVIATIONS, SYMBOLS, & GENERAL NOTES

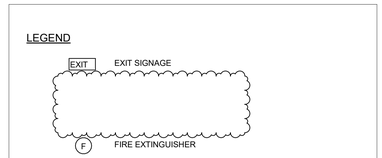
Project Number. 6790

Drawing No.

G001

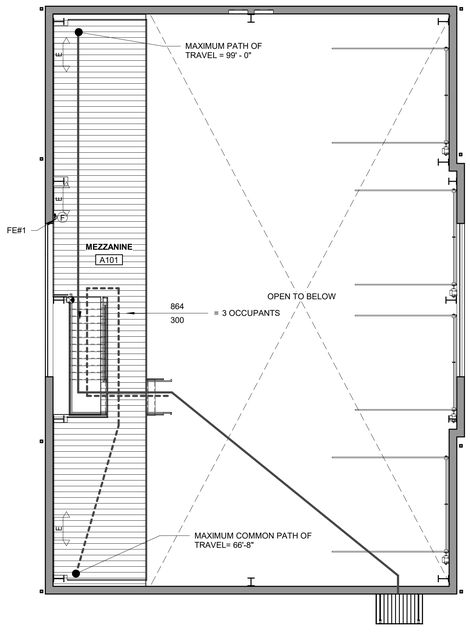
Sheet of





1 / A010 CODE REVIEW PLAN

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



2 / A010 MEZZANINE CODE PLAN

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

CODE DATA

I. BUILDING & FIRE CODE DATA

MASSACHUSETTS STATE BUILDING CODE	780 CMR	MASBC 2017
2015 INTERNATIONAL BUILDING CODE		IBC
2015 INTERNATIONAL ENERGY CODE		IECC
2015 INTERNATIONAL MECHANICAL CODE		IMC
2017 NATIONAL ELECTRIC CODE		NEC
2015 INTERNATIONAL EXISTING BUILDING CODE		IECB
2017 MASSACHUSETTS SUPPLEMENT	780 CMR	dated 2017 10 20
MA SPECIAL REGULATIONS 780 CMR 110.R1 THROUGH 115.AA		dated 2010 10 20
ARCHITECTURAL ACCESS BOARD	521 CMR	
MA ACCESSIBILITY CODE		dated 2006 01 27
MA STATE PLUMBING CODE	248 CMR	dated 2023 12 08
MA ELECTRICAL CODE	527 CMR 12.00	date 2008

2022 MASSACHUSETTS FIRE CODE STATE FIRE SAFETY CODE 527 CMR
NFPA 1 2022 FIRE CODE
[FIRE PREVENTION REGULATIONS 527 CMR TAKES PRECEDENCE OVER NFPA]

NFPA REFERENCE STANDARDS FROM MA SBC CHAPTER 35

NFPA 10 2018 PORTABLE FIRE EXTINGUISHERS
NFPA 13 2019 INSTALLATION OF SPRINKLERS SYSTEMS
NFPA 14 2016 INSTALLATION OF STAND PIPE & HOSE SYSTEMS
NFPA 70 2017 NATIONAL ELECTRICAL CODE
NFPA 72 2019 NATIONAL FIRE ALARM CODE
NFPA 101 2018 LIFE SAFETY CODE
NFPA 241 2022 SAFEGUARDING CONSTRUCTION

II. BUILDING AREA

TOTAL BUILDING AREA 4,659 S.F.

A. OCCUPANCY & CONSTRUCTION TYPES

BUILDING OCCUPANCY: STORAGE (S-2)

(OCCUPANCY)	(BLDG. AREAS)
S	3805 S.F.
S (MEZZANINE)	864 S.F.

CONSTRUCTION TYPE: IIB

THESE CONSTRUCTION TYPES EQUATE TO THE FOLLOWING FIRE RATINGS:

STRUCTURAL ELEMENT	RATING IN HOURS
1. EXTERIOR WALLS	
LOAD BEARING	0
NON-LOAD BEARING	0
2. FIRE WALLS & PARTY WALLS	0
3. INTERIOR LOAD BEARING WALLS, PARTITIONS, COLUMNS, GIRDERS, TRUSSES (OTHER THAN ROOF) AND FRAMING	0
4. STRUCTURES SUPPORTING WALL(S)	0
5. FLOOR CONSTRUCTION	0
6. ROOF CONSTRUCTION	0
15' OR LESS TO LOWEST MEMBER	0
GREATER THAN 15' BUT LESS THAN 20' TO LOWEST MEMBER	0
GREATER THAN 20' TO LOWEST MEMBER	0

B. ALLOWABLE AREA AND HEIGHT

1. AREA FOR IIB CONSTRUCTION

OCCUPANCY S-2 = 26,000SF/FLOOR

2. HEIGHT FOR IIB CONSTRUCTION

OCCUPANCY S-2 = 3 STORIES/55 FEET ABOVE GRADE
ACTUAL BUILDING HEIGHT = 1 1/2 STORIES/27 FEET ABOVE GRADE

C. FIRE PROTECTION

1. FIRE ALARM SYSTEM NOT REQUIRED PER NFPA 101 42.3.4.1.1; SUBJECT TO AHJ.

D. EGRESS REQUIREMENTS (W/O SPRINKLER SYSTEM)

1. LENGTH OF TRAVEL

STORAGE 99'-0" LF
MAXIMUM LENGTH OF TRAVEL ALLOWED = 300 LF

2. COMMON PATH

STORAGE 66'-0" LF
MAXIMUM LENGTH OF COMMON PATH ALLOWED = 75 LF
DEAD END CORRIDOR 50 LF

3. MEANS OF EGRESS

NUMBER AND WIDTH REQUIRED
OCCUPANCY LOAD PER FLOOR 500 PEOPLE OR LESS

TOTAL EXITS REQUIRED = 2 EXITS PER FLOOR

EGRESS WIDTHS REQUIRED
TOTAL WIDTH REQUIRED FOR STAIRS = 0.3"/person x 3 = .9"
TOTAL WIDTH REQUIRED FOR DOORS = 0.2"/person x 16 = 3.2"

WIDTH PROVIDED
TOTAL WIDTH PROVIDED FOR STAIRS = 58"
TOTAL WIDTH PROVIDED FOR DOORS = 64"

E. INTERIOR FINISHES

CLASS B OR BETTER FINISHES WILL BE PROVIDED AT EXIT PASSAGEWAYS AND
CLASS C OR BETTER IN ROOMS AND ENCLOSED SPACES PER IBC TABLE 803.13 & NFPA 42.3.3

F. SEISMIC CRITERIA

SEE STRUCTURAL DRAWINGS FOR SEISEMIC FACTOR REQUIREMENTS

G. STRUCTURAL LOADS

RISK CATEGORY II
ULTIMATE DESIGN WIND SPEED = 129 MPH
NOMINAL DESIGN WIND SPEED = 100 MPH
SNOW LOAD = 40 PSF

H. OCCUPANCY LOADS

1. OCCUPANCY LOAD TYPES — CMR 780 TABLE 1004.1.2

STORAGE 300 SF./PERSON GROSS

2. OCCUPANCY LOAD PER FLOOR

BY AREA

FIRST FLOOR	13 OCCUPANTS
MEZZANINE	3 OCCUPANTS
BUILDING TOTAL	16 OCCUPANTS

II. PLUMBING FIXTURE ANALYSIS (BASED ON 248 CMR SECTION 10.10 TABLE 1)

III. VARIANCES REQUESTED

REFLIEF FROM PLUMBING FIXTURE REQUIREMENTS = NA

III. MASS STRETCH CODE - 2021

THERMAL ENVELOPE COMPONENT VALUES ALL COMPONETS TO BE CLEARLY LABELED

TABLE C301.1 CLIMATE ZONE 5A

METAL BLDGS. EXTERIOR WALLS R-VALUE	CONTINUOUS (R 13 + 10) = 23 / Provided R - 28.8
ROOF R-VALUE	CONTINUOUS (R - 19 + 11 LS) = 30 / Provided R - 30

TABLE C402.4 CLIMATE ZONE 5A

FIXED FENESTRATION WINDOWS U-FACTOR	FRAME TYPE: SINGLE U - .36 / Provided .34
SWINGING DOOR U-FACTOR	DOOR TYPE: SINGLE U - .37 / Provided .35
OVERHEAD DOOR U-FACTOR	DOOR TYPE: SINGLE U - .31 / Provided .31
GLAZING SHGC	DOUBLE GLAZED UNIT: SHGC .38 / Provided .35
KALWALL PANELS SHGC	4" CRYSTAL 13%: SHGC U / Provided .09
EXPOSED FOUNDATION INSULATION	24" BELOW GRADE = T-CLEAR : 2.125" EXPS AT R- 10

Certification

Drawn by ADC
Checked by AHB, JJR

Revised on

#	(DATE)	(DESCRIPTION)
2	6/28/2024	Addendum #2

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DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

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Sheet Contents

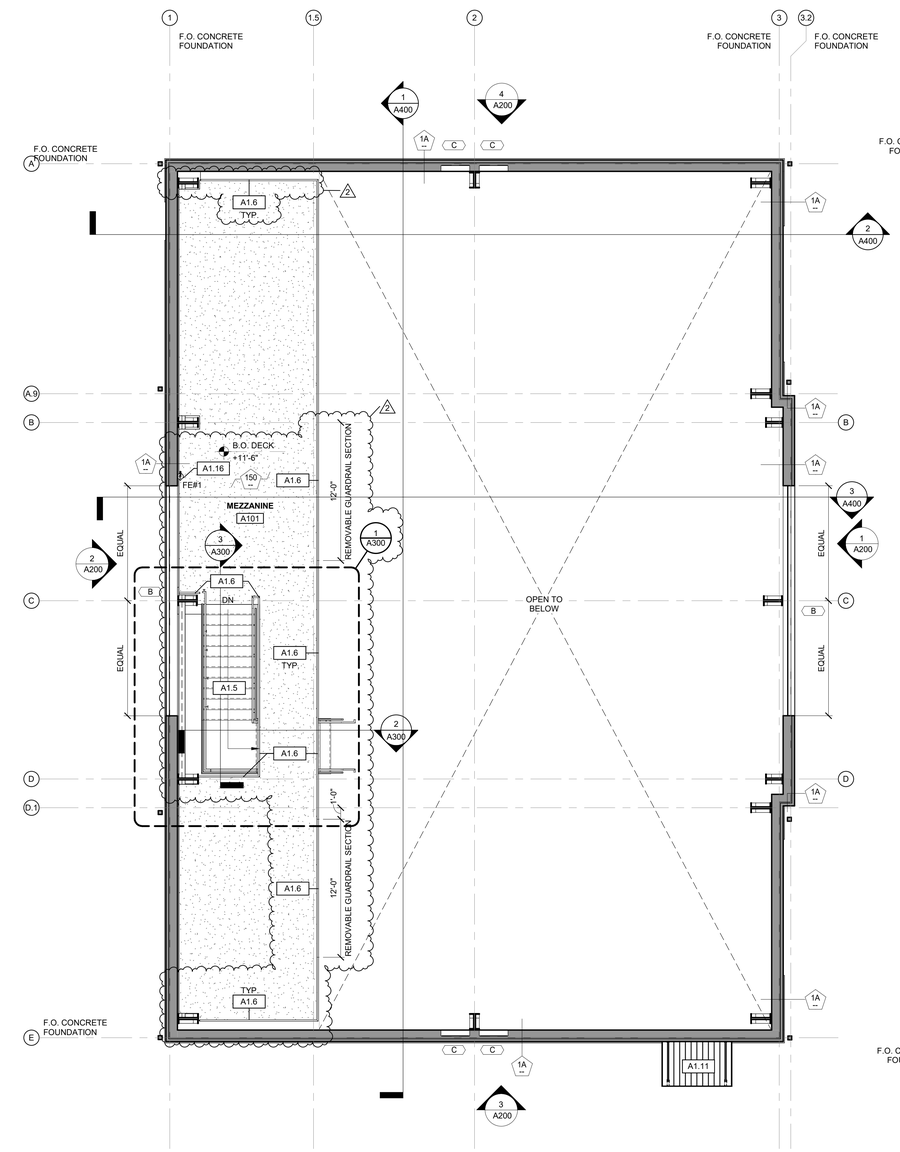
CODE REVIEW

Project Number. 6790

Drawing No.

A010

Sheet of



TRUE NORTH BLDG NORTH

2 A100 MEZZANINE LEVEL

Scale: 3/16" = 1'-0"

TRUE NORTH BLDG NORTH

1 A100 FLOOR PLAN

Scale: 3/16" = 1'-0"

GENERAL PLAN NOTES

1. COORDINATE ALL WORK w/ CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, &/or OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO EXTERIOR CONSTRUCTION ARE TO FACE OF CONCRETE FOUNDATION U.N.O.
3. ALL EXTERIOR WALLS ARE TYPE 1A U.N.O.
4. ALL DOOR FRAMES SHALL BE A MINIMUM OF 4" CLEAR FROM THE FACE OF ADJACENT WALL TO DOOR JAMB, U.N.O.
5. THE FOLLOWING ITEMS ARE DESIGNATED AS FOLLOWS:
   FE FIRE EXTINGUISHER WITH SURFACE MOUNTED RETAINER BRACKET
6. REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL INFORMATION.
7. REFER TO DRAWING G001 FOR ABBREVIATIONS AND SYMBOLS DESCRIPTION.

CONSTRUCTION LEGEND

- NEW WALL/ITEM
- DS — DOWNSPOUT
- F&I = — FURNISH AND INSTALL
- XXX — WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
- XXX — WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.

PLAN WORK NOTES

A1.1 F&I CONCRETE SIDEWALK W/ TOOLED EDGES AND BROOM FINISH. SLOP AWAY FROM BUILDING FOUNDATION (2% MAX SLOPE); RE: CIVIL DWGS.

A1.2 F&I CONTROL JOINT SPACED 5'-0" O.C.

A1.3 F&I 8" DIAMETER 42" HIGH STEEL BOLLARD FILLED WITH CONCRETE AND PAINTED; RE: 7/A501

A1.4 F&I 3-5/8" METAL STUD AND 3/4" MARINE GRADE FRT PLYWOOD, FIELD PAINTED WHITE; RE: 1/A500

A1.5 F&I NEW METAL STAIR ASSEMBLY, RE: ENLARGED DETAILS AND COORDINATE w/ STRUCTURAL DRAWINGS, TYP.

A1.6 F&I METAL GUARDRAIL, RE: ENLARGED DETAILS AND COORDINATE w/ STRUCTURAL DRAWINGS, TYP.

A1.7 F&I NEW TRENCH DRAIN AT EACH OVERHEAD DOOR; RE: PLUMBING DWGS.

A1.9 F&I NEW ELECTRICAL PANEL, MAINTAIN ANY REQ. FRONT CLEARANCES; RE: ELECTRICAL DWGS.

A1.10 F&I NEW GAS DETECTION AND FAN CONTROL PANELS; RE: MECHANICAL AND ELECTRICAL DWGS.

A1.11 F&I NEW PREFAB ALUMINUM CANOPY, RE: 2/A501

A1.12 F&I NEW OVERHEAD SECTIONAL DOOR WITH PUSHBUTTON; RE: ELECTRICAL DWGS.

A1.13 F&I EXTERIOR HOSE BIBB; RE:PLUMBING DWGS.

A1.14 F&I TRAP DRILL BOX; RE:PLUMBING AND ELECTRICAL DWGS.

A1.15 F&I GAS METER; COORDINATE FINAL LOCATION WITH LOCAL UTILITY COMPANY AND OWNER. RE:PLUMBING DWGS.

A1.16 F&I FIRE EXTINGUISHER WITH SURFACE MOUNTED RETAINER BRACKET; RE:2/A502 .

Certification

Drawn by ADC

Checked by AHB, JJR

Revised on

#	(DATE)	(DESCRIPTION)
1	6/25/2024	Addendum #1
2	6/28/2024	Addendum #2

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Sheet Contents

FLOOR PLANS

Project Number. 6790

Drawing No.

A100

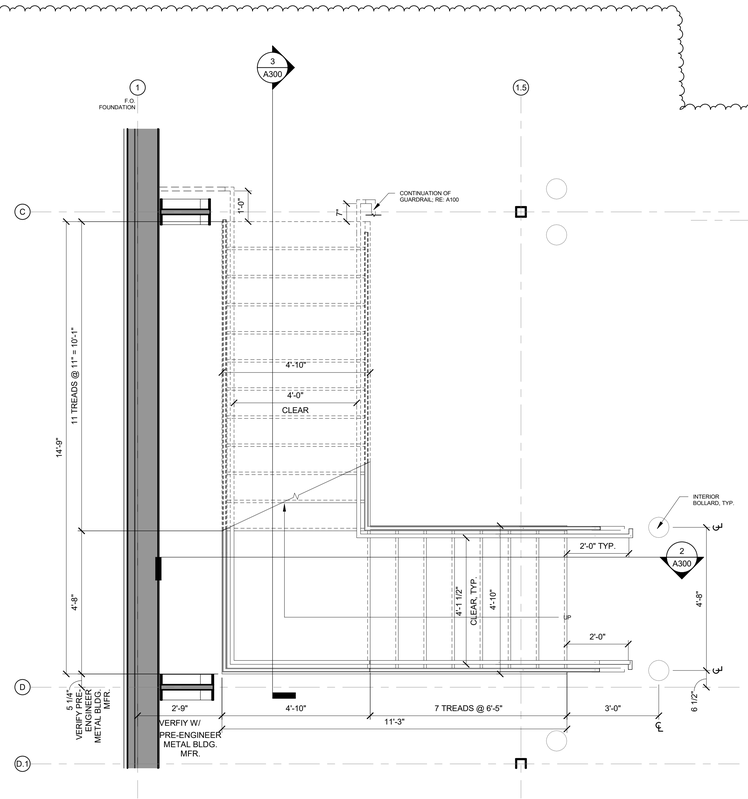
Sheet of

NOTE:

STAIR FABRICATOR TO PROVIDE SHOP DRAWINGS FOR STAIR SYSTEM. ALL STAIR TREADS AND PLATFORMS SHALL MEET 100 PSF LIVE LOAD. HANDRAIL AND GUARDRAILS SHALL MEET A 50 PLF GENERAL LOAD AND A MINIMUM 200 POUND CONCENTRATED LOAD.

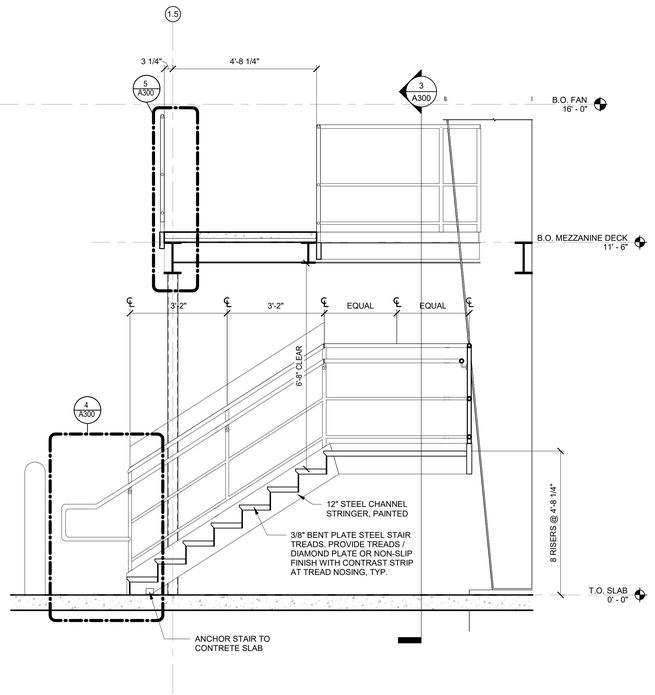
ALL STEEL CONNECTIONS TO BE FULLY WELDED U.N.O.

Certification



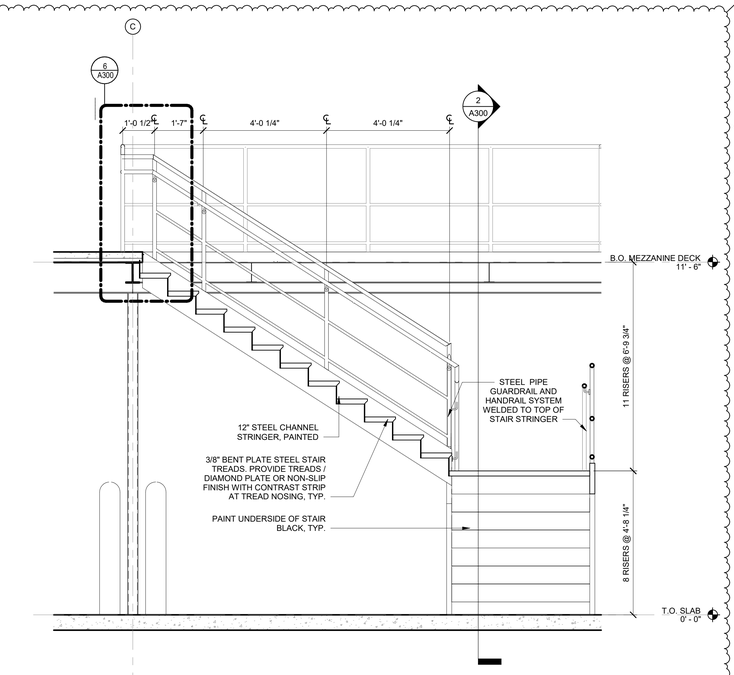
1 / A300 ENLARGED STAIR PLAN

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



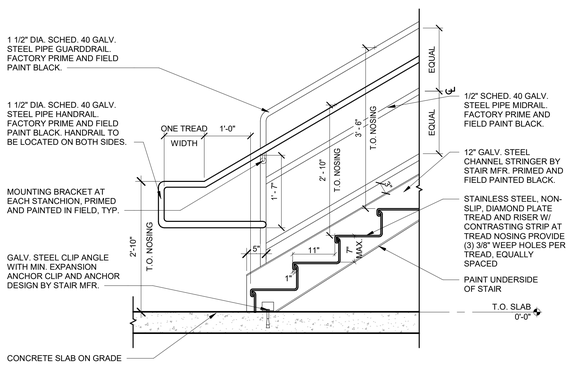
2 / A300 STAIR SECTION 1

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



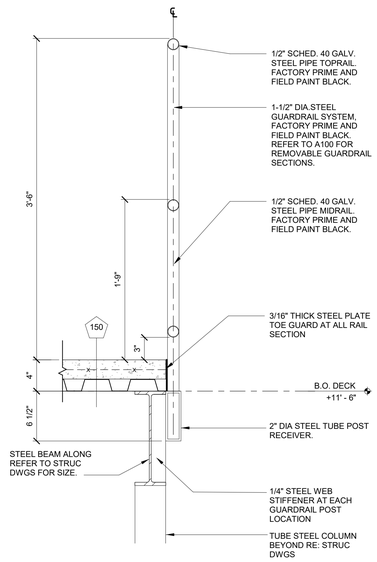
3 / A300 STAIR SECTION 2

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



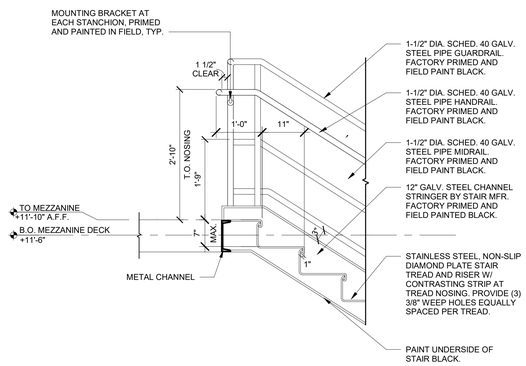
4 / A300 BOTTOM OF STAIR & SLAB CONNECTION

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



5 / A300 TYP GUARDRAIL DETAIL

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



6 / A300 METAL STAIR DETAIL

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

Drawn by	EP, ADC
Checked by	AHB, JJR

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Sheet Contents

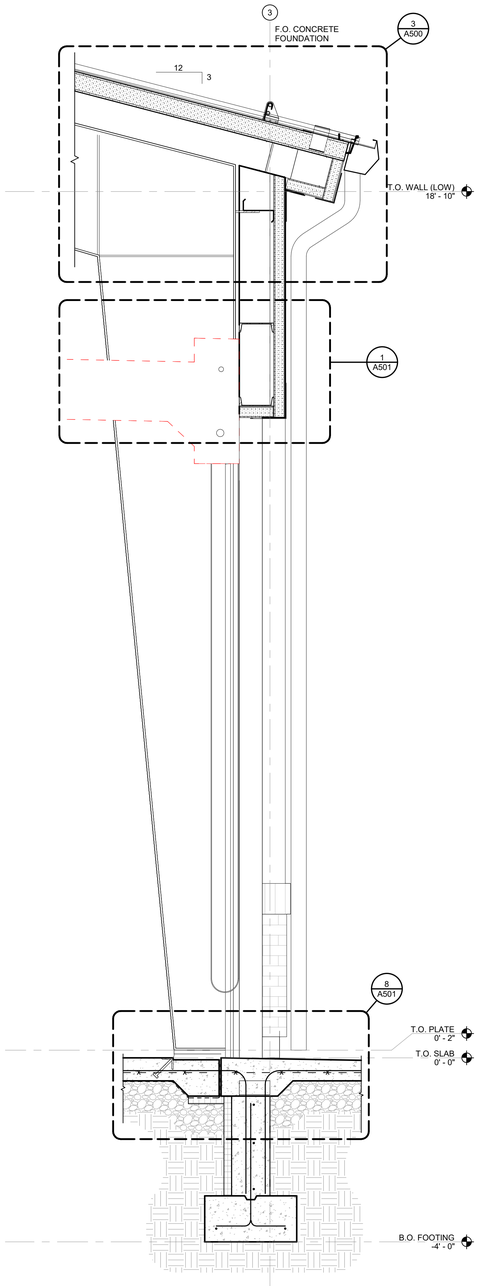
ENLARGED STAIR, ELEVATION, & SECTIONS

Project Number. 6790

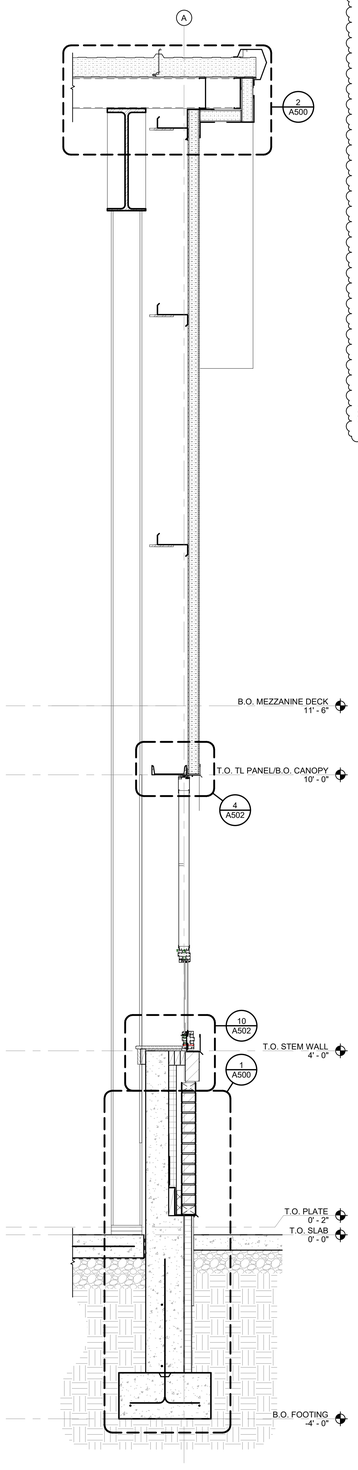
Drawing No.

A300

Sheet of



5 A400 WALL SECTION 1
Scale: 3/4" = 1'-0"



4 A400 WALL SECTION 2
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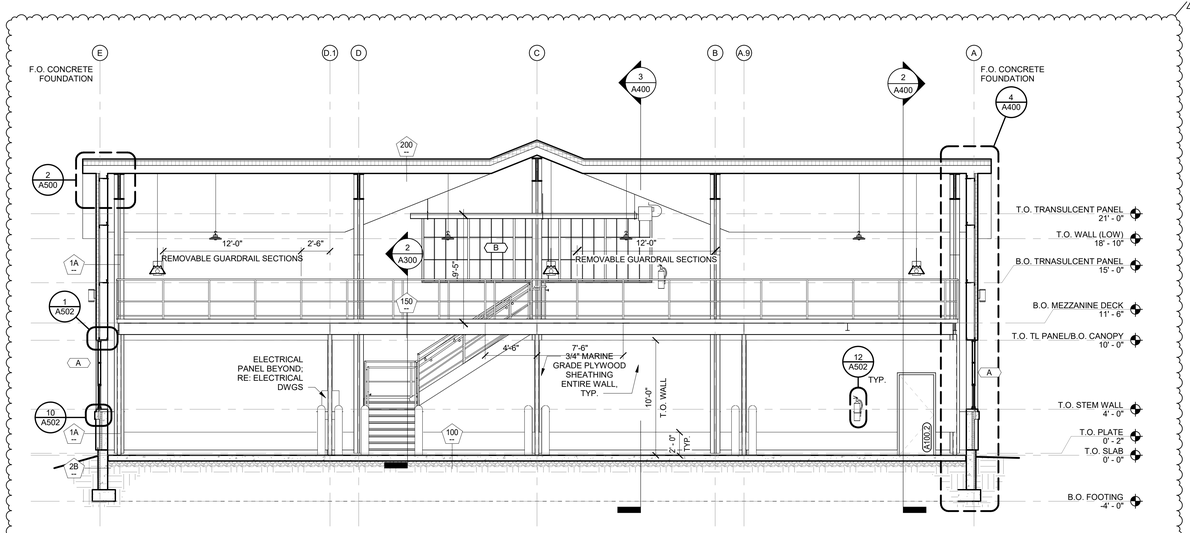
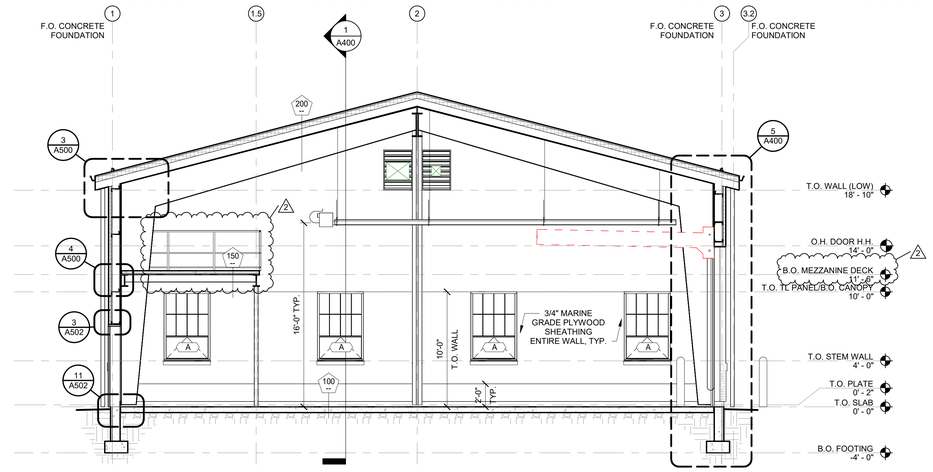
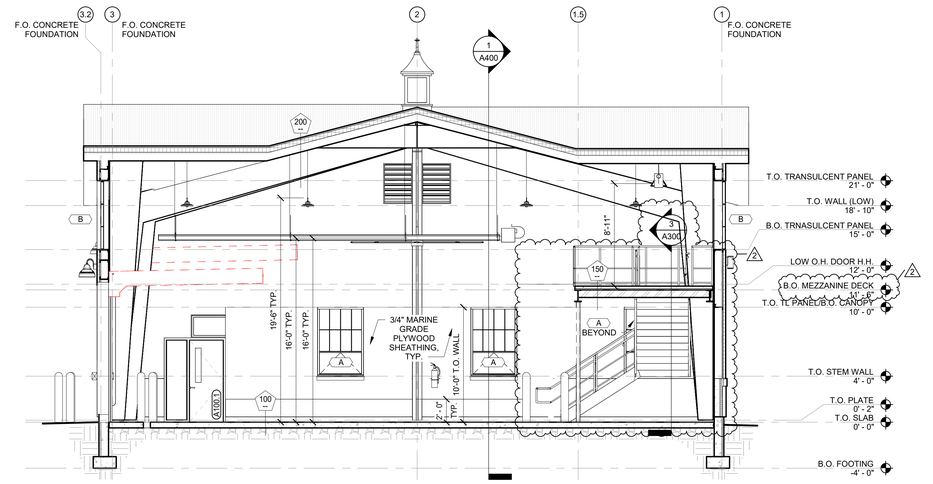


1 A400 BUILDING SECTION 1
Scale: 3/16" = 1'-0"



2 A400 BUILDING SECTION - LOW BAY
Scale: 3/16" = 1'-0"



3 A400 BUILDING SECTION - HIGH BAY
Scale: 3/16" = 1'-0"

Certification

Drawn by ADC, ML
Checked by AHB, JJR

Revised on

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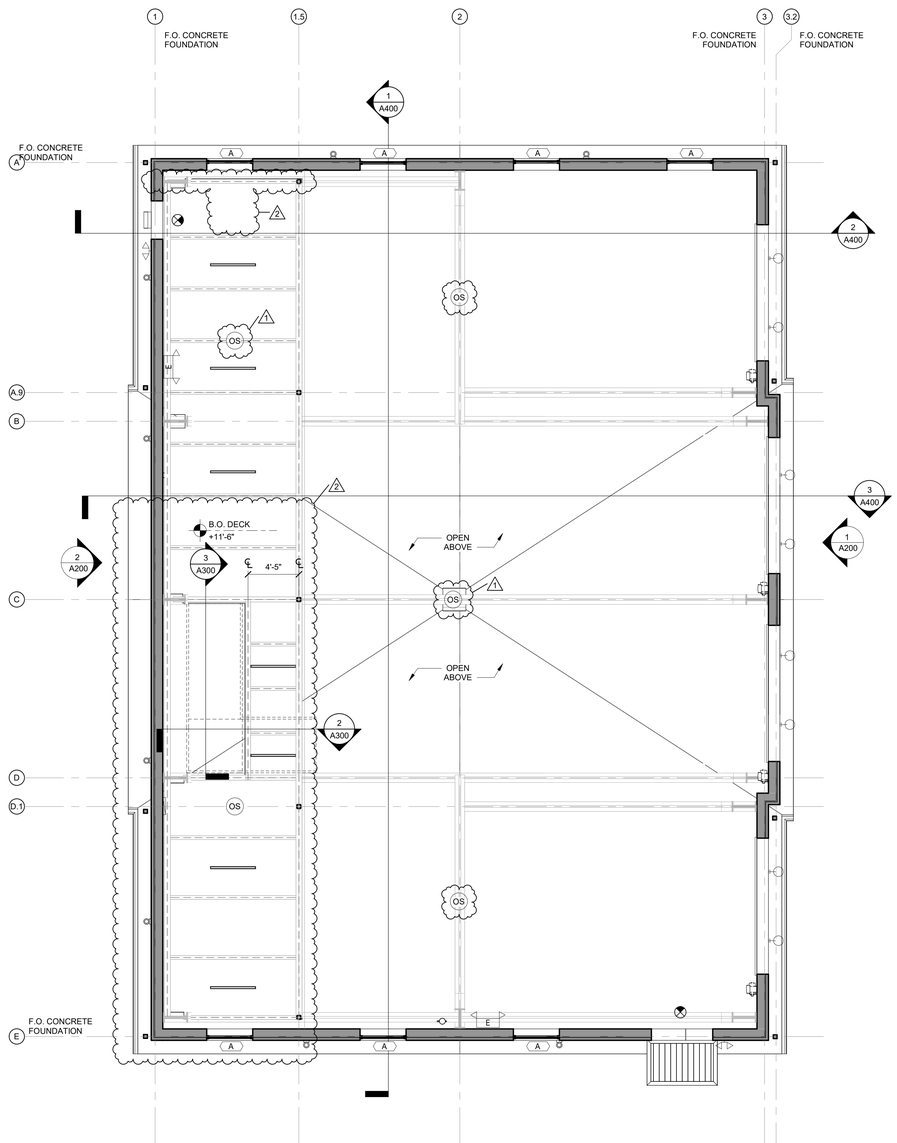
Sheet Contents
BUILDING & WALL SECTIONS

Project Number. 6790

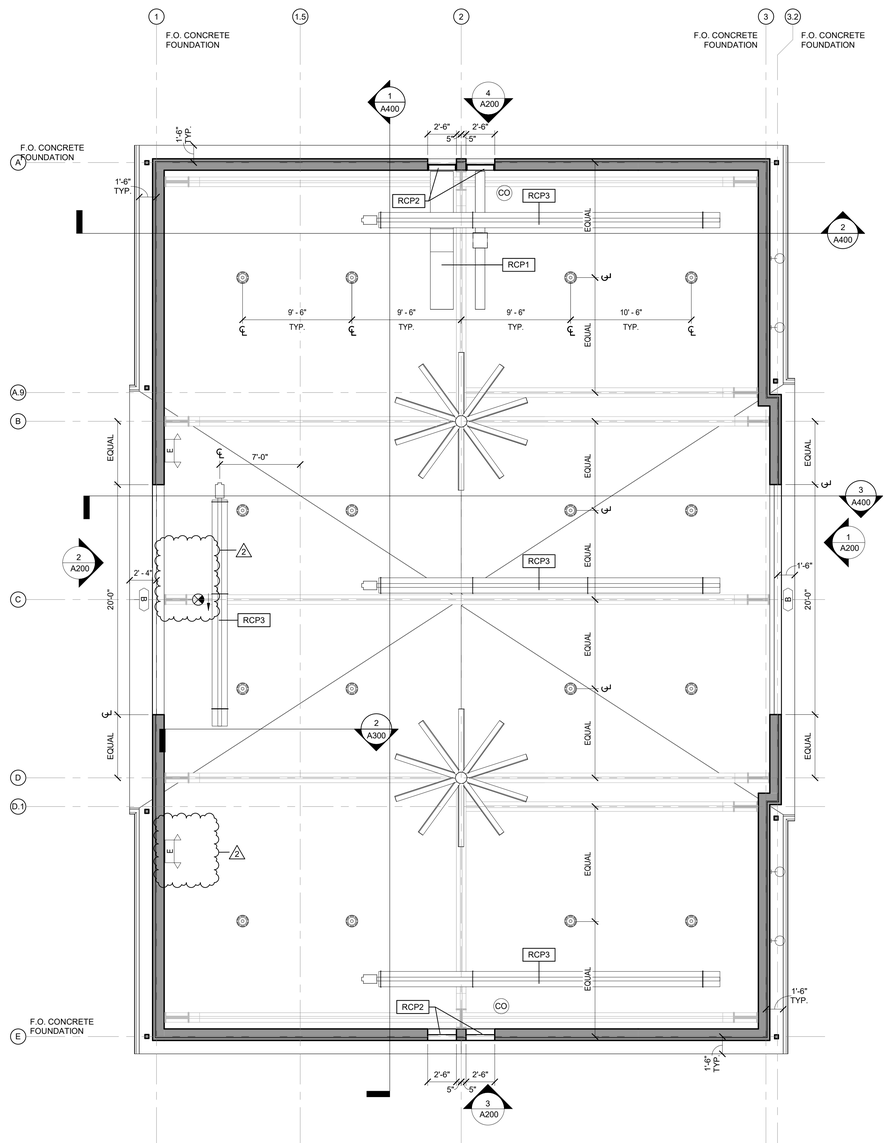
Drawing No.
A400

Sheet of



2 MEZZANINE REFLECTED CEILING PLAN
A600 Scale: 3/16" = 1'-0"

TRUE NORTH BLDG NORTH



1 REFLECTED CEILING PLAN
A600 Scale: 3/16" = 1'-0"

TRUE NORTH BLDG NORTH

REFLECTED CEILING PLAN NOTES

1. NOT ALL CEILING MOUNTED &/or SUSPENDED ITEMS, COMPONENTS, &/or WORK MAY BE SHOWN. CONTRACTOR TO COORDINATE w/ ALL DRAWINGS INCLUDING STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. NOTIFY THE ARCHITECT OF ANY ADDITIONAL ITEMS &/or DISCREPANCIES BEFORE STARTING WORK.
2. ALL CEILING MOUNTED ITEMS ARE TO BE CENTERED IN CEILING TILES U.N.O.
3. SPRINKLER HEAD LAYOUT IS APPROXIMATE AND NOT ALL HEADS MAY BE SHOWN. COORDINATE w/ SPRINKLER DRAWINGS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
4. PROVIDE WHITE GROMMET TRIM AT ALL SUPPORT CABLE &/or WIRING PENETRATIONS FOR SUSPENDED ELEMENTS.

CONSTRUCTION LEGEND

NEW WALL/ITEM

F&I = FURNISH AND INSTALL

— WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.

— WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.

CEIING FINISH
SAT
9'-0"
HEIGHT OF CEILING ABOVE FINISH FLOOR

REFLECTED CEILING PLAN LEGEND

- LINEAR LED LIGHT FIXTURE COORDINATE W/ ELEC. DWGS
- HIGH BAY SUSPENDED LED LIGHT FIXTURE COORDINATE W/ ELEC. DWGS
- EXTERIOR LED SURFACE MOUNTED UP/DOWN LIGHT FIXTURE; RE: ELECTRICAL DRAWINGS
- EXTERIOR GOOSENECK STYLE LED LIGHT FIXTURE; RE: ELECTRICAL DRAWINGS
- EXTERIOR DOWNLIGHT LED LIGHT FIXTURE; RE: ELECTRICAL DRAWINGS
- EXIT SIGN COORDINATE W/ ELEC. DWGS
- WALL MOUNTED DIRETIONAL EXIT SIGN COORDINATE W/ ELEC. DWGS
- EMERGENCY BATTERY BACKUP EGRESS LIGHTING COORDINATE W/ ELEC. DWGS
- EXTERIOR (WET LOCATION) REMOTE DOUBLE HEAD LED LIGHT FIXTURE; COORDINATE W/ ELEC. DWGS
- CEILING FAN COORDINATE W/ MECH. DWGS
- GAS FIRED INFRARED HEATER RE: MECHANICAL & ELECTRICAL DWGS
- PREFABRICATED METAL CANOPY
- DUCT; RE: MECHANICAL DWGS
- DOWNSPOUT
- CO — CO/NO² SENSOR COORDINATE W/ MECH. & ELWGS
- OS — OCCUPANY SENSOR. COORDINATE W/ ELEC. DWGS
- H — HEAT DETECTOR COORDINATE W/ ELEC. DWGS

RCP WORK NOTES

RCP1 F&I MECHANICAL DUCT, EXHAUST FANS AND MOTORIZED DAMPERS RE: ELECTRICAL & MECHANICAL DRAWINGS

RCP2 F&I STORM-PROOF LOUVER WITH INSERT AND BIRD SCREEN

RCP3 F&I GAS FIRED INFRAED HEATER RE: PLUMBING, ELECTRICAL, & MECHANICAL DRAWINGS

Certification

Drawn by ADC, ML
Checked by AHB, JJR

Revised on

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Sheet Contents

REFLECTED CEILING PLAN

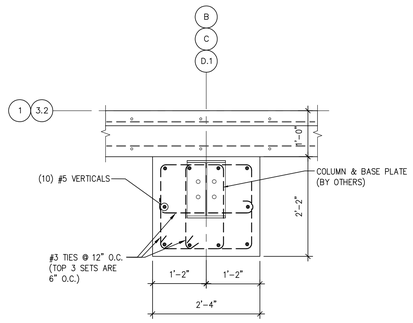
Project Number. 6790

Drawing No.

A600

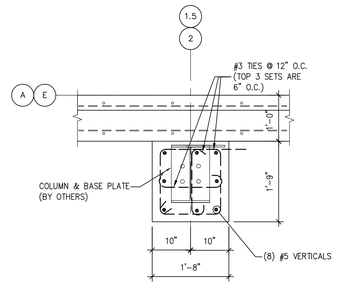
Sheet of

FOOTING SCHEDULE			
MARK	SIZE	THICKNESS	REINFORCING
F3	3'-0 x 3'-0	1'-0"	4-#5 EA. WAY
F4	4'-0 x 4'-0	1'-0"	5-#5 EA. WAY
F5	5'-0 x 5'-0	1'-0"	6-#5 EA. WAY
F6	6'-0 x 6'-0	1'-0"	7-#5 EA. WAY
F8	8'-0 x 8'-0	1'-0"	9-#5 EA. WAY



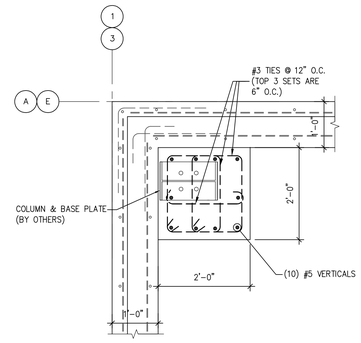
PIER "P1" DETAIL

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



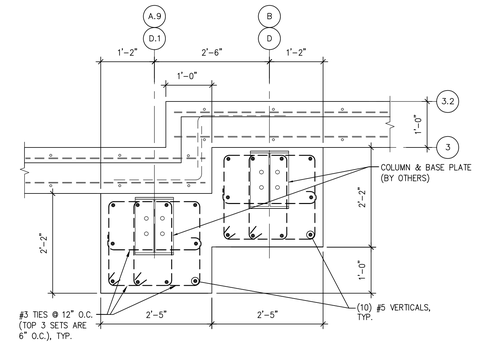
PIER "P2" DETAIL

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



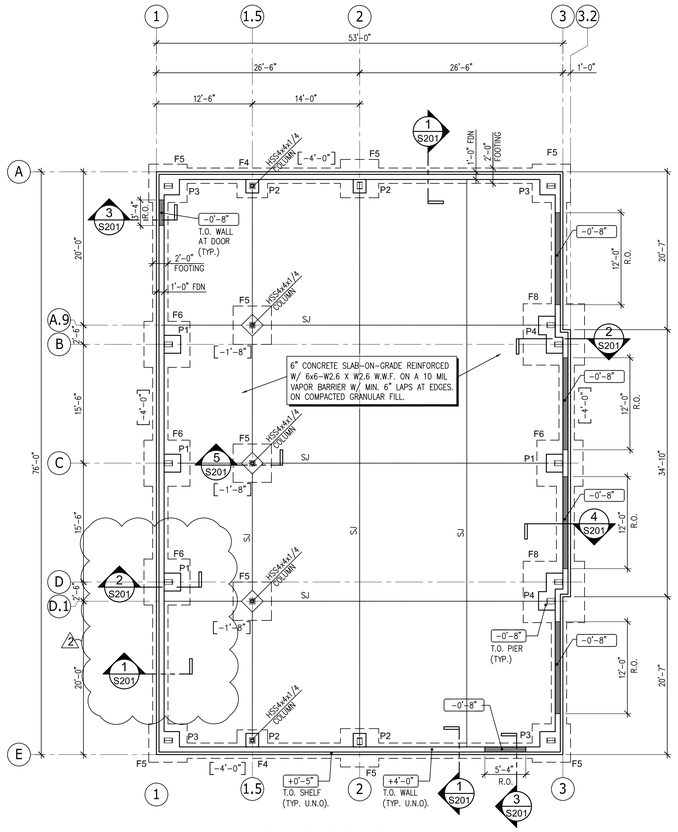
PIER "P3" DETAIL

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



PIER "P4" DETAIL

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



FOUNDATION PLAN

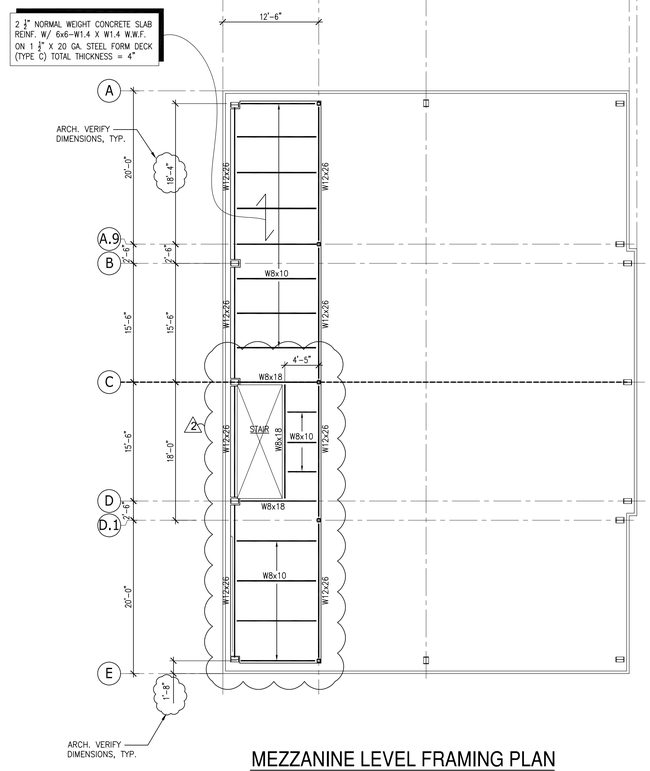
SCALE: 1/8"=1'-0"

NOTES:
1. FINISH FLOOR CALLED ELEV.= 0'-0"
2. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECT'S DRAWINGS
3. FOUNDATION MUST BE CHECKED FOR LOADS PROVIDED BY METAL BUILDING MANUFACTURER BEFORE CONSTRUCTION BEGINS.

XX'-XX" INDICATES TOP OF WALL AND SHELF ELEV.

[XX'-XX"] INDICATES BOTTOM OF FOOTING ELEV.

(S.J.) INDICATES SHRINKAGE CONTROL JOINT (SEE TYPICAL SLAB-ON-GRADE DETAIL)



MEZZANINE LEVEL FRAMING PLAN

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

2 NOTES:
1. MEZZANINE DESIGN LOADING:
   DL = 15 PSF
   SLAB = 43 PSF
   LL = 150 PSF
2. PEMB COLUMNS ON GRID LINE 1 SHALL BE DESIGNED TO SUPPORT MEZZANINE FRAMING

Certification

Drawn by AJG

Checked by JRM

Revised on

6/28/24 2 ADDENDUM 2

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Sheet Contents

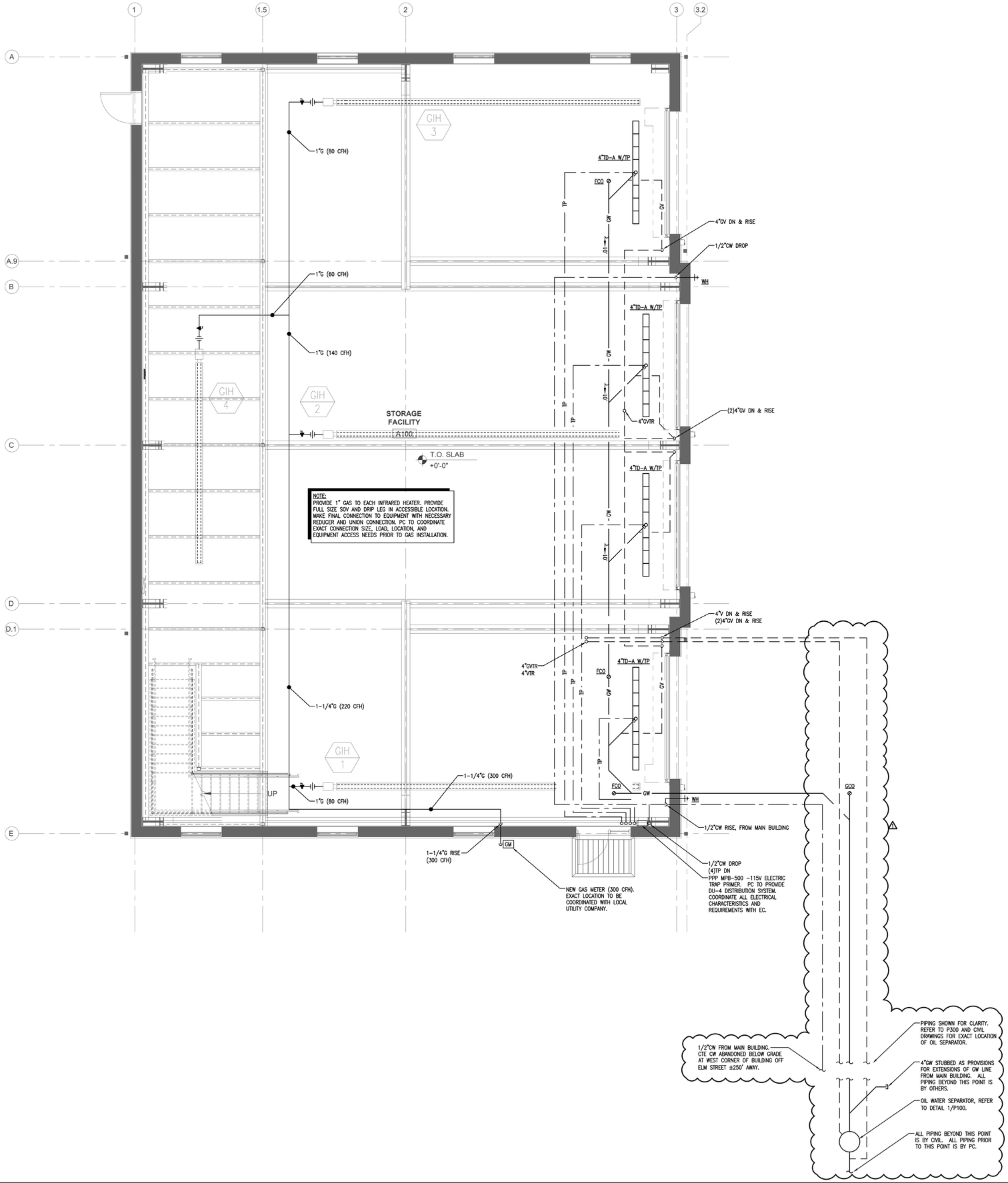
FOUNDATION PLAN AND MEZZANINE LEVEL FRAMING PLAN

Project Number. 6790

Drawing No.

S101

Sheet of



1 PLUMBING PLAN
P200 Scale: 1/4" = 1'-0"

Certification

Drawn by LW

Checked by SK

Revised on

⚠ ADDENDUM #2 06/28/24

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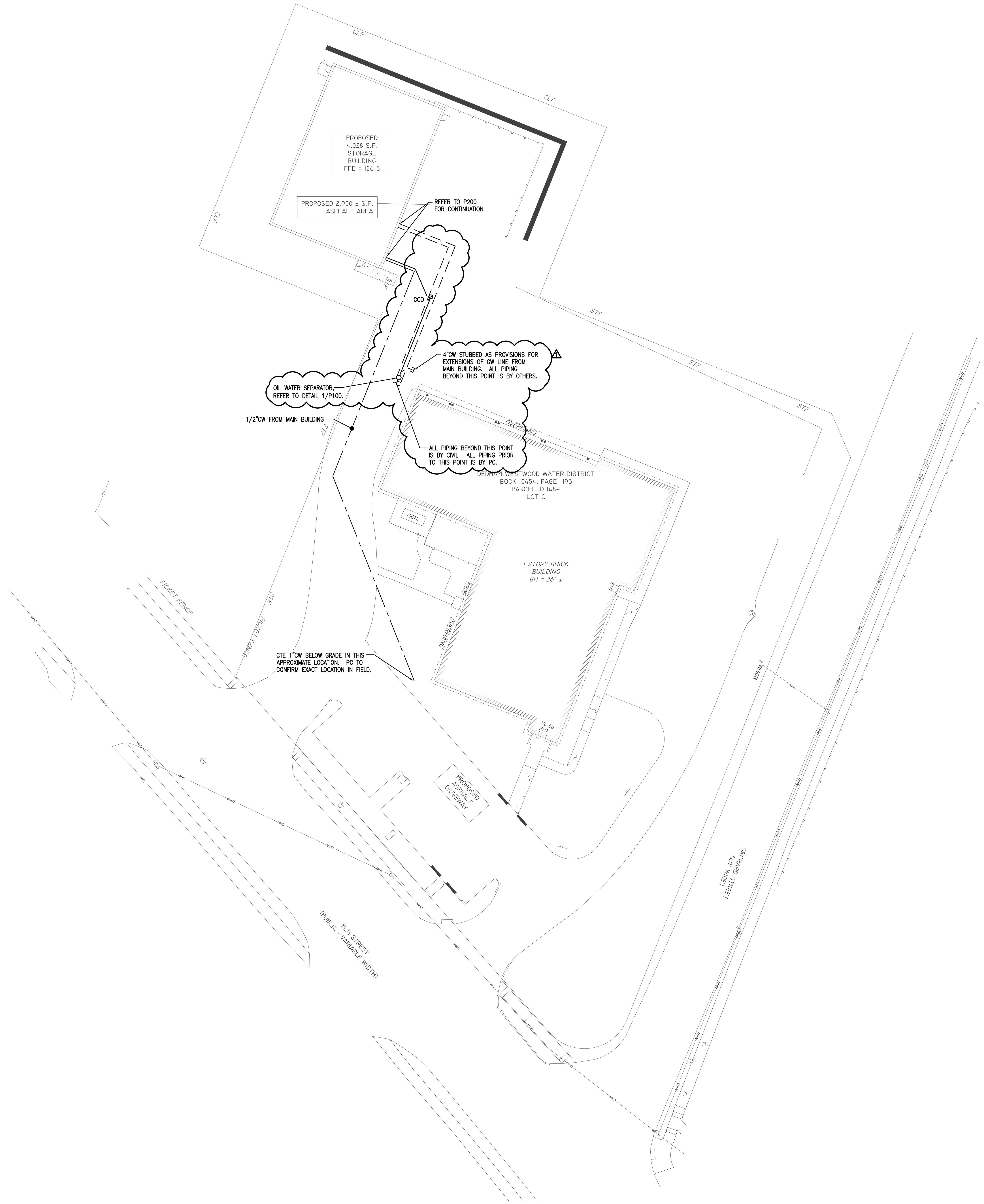
Sheet Contents

PLUMBING PLAN

Project Number. 6790

Drawing No. P200

Sheet of



1 / P300 PLUMBING PLAN
Scale: 1" = 20'-0"

Certification

Drawn by LW
Checked by SK

Revised on
1 ADDENDUM #2 06/28/24

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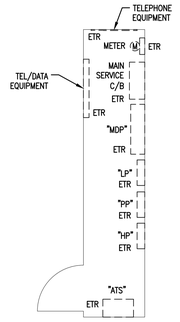
Sheet Contents
PLUMBING SITE PLAN

Project Number. 6790

Drawing No. P300

Sheet of



2 ENLARGED ELECTRIC ROOM PLAN

E5100 Scale: 1/4" = 1'-0"

GENERAL NOTES:

1. THE ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUIT, RACEWAYS AND PULL BOXES AS REQUIRED FOR THE GATE OPERATOR SYSTEMS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC ONLY. EXACT INSTALLATION LOCATION AND ROUTING OF CONDUITS SHALL BE DETERMINED IN THE FIELD WITH EXISTING AND PROPOSED SITE UTILITIES.

KEYED NOTES:

① PROVIDE (1) 3/4"C WITH BRANCH CIRCUIT WIRING FOR GATE OPERATOR. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR AND TRANSITION TO 3/4" SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO GATE OPERATOR. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD.

② PROVIDE NEW 20A/1P CIRCUIT BREAKER IN EXISTING AVAILABLE SPACE TO SERVE GATE OPERATOR. EXISTING PANEL IS MANUFACTURED BY FPE. NEW CIRCUIT BREAKER SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT AND MATCH THE EXISTING AIC RATING. REFER TO RISER DIAGRAM KEYED NOTE #5 ON DRAWING E300 FOR ADDITIONAL INFORMATION.

③ CONDUIT FOR FEEDER TO STORAGE BUILDING PANELBOARD SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR AND TRANSITION TO SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO PANELBOARD LOCATION. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD. REFER TO ELECTRICAL RISER DIAGRAM ON DRAWING E300 FOR ADDITIONAL INFORMATION.

④ PROVIDE (1) 3/4"C WITH PULLSTRING FROM STORAGE ROOM TO GATE-MOUNTED CARD READER. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR (NOT SHOWN ON PLANS) AND TRANSITION TO 3/4" SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO GATE. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD.

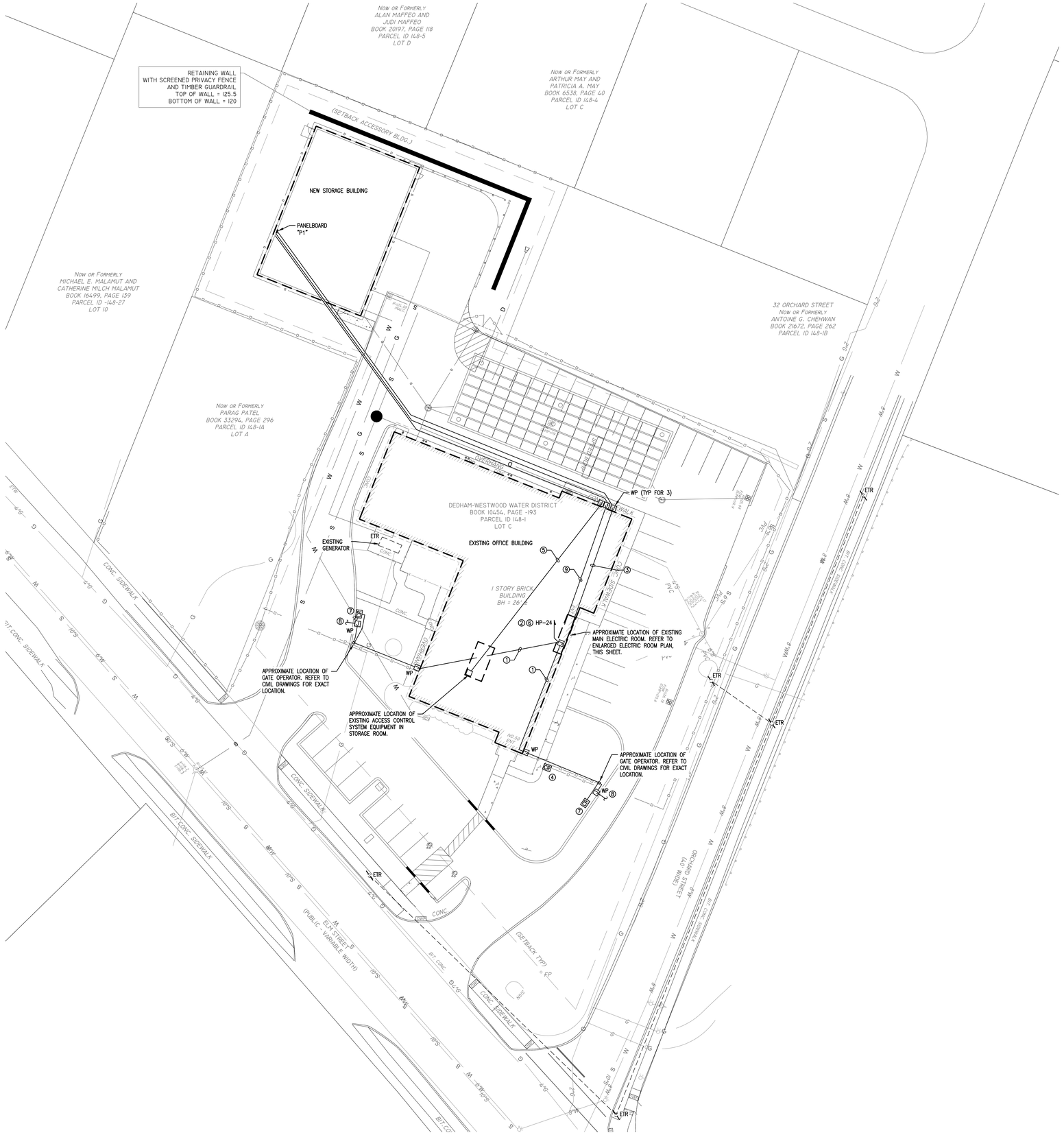
⑤ PROVIDE (1) 2"C WITH PULLSTRING FROM STORAGE ROOM TO NEW STORAGE BUILDING. LABEL EACH END OF THE CONDUIT WITH THE ORIGINATION AND TERMINATION LOCATION. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR AND TRANSITION TO 2" SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO STORAGE BUILDING AND STUB UP 12"AFF ADJACENT TO PANELBOARD "P1". EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD. CONDUIT SHALL BE RUN IN TRENCH WITH PANELBOARD "P1" FEEDER CONDUIT. MAINTAIN ALL REQUIRED SEPARATION DISTANCES BETWEEN CONDUITS.

⑥ PROVIDE SURGE PROTECTIVE DEVICE FOR GATE OPERATOR BRANCH CIRCUIT EQUAL TO DITEK #DTK-120SLR.

⑦ PROVIDE (1) 3/4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FROM GATE OPERATOR TO CARD READER LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.

⑧ PROVIDE (1) 3/4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FROM GATE OPERATOR TO LOOP DETECTOR. PROVIDE WEATHERPROOF/WATERTIGHT IN-GRADE JUNCTION BOX FOR SPLICING OF CABLES. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.

⑨ PROVIDE (1) 2"C WITH PULLSTRING FROM TEL/DATA EQUIPMENT LOCATION IN MAIN ELECTRIC ROOM TO NEW STORAGE BUILDING. LABEL EACH END OF THE CONDUIT WITH THE ORIGINATION AND TERMINATION LOCATION. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR AND TRANSITION TO 2" SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO STORAGE BUILDING AND STUB UP 12"AFF ADJACENT TO PANELBOARD "P1". EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD. CONDUIT SHALL BE RUN IN TRENCH WITH PANELBOARD "P1" FEEDER CONDUIT. MAINTAIN ALL REQUIRED SEPARATION DISTANCES BETWEEN CONDUITS.



1 ELECTRICAL SITE PLAN

ES100 Scale: 1" = 20'-0"

Certification

Drawn by SD

Checked by DC

Revised on

⚠ ADDENDUM #2 06/28/24

B|E|R
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Architecture · Project Management · Interior Design

Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

Issued On 5/24/2024

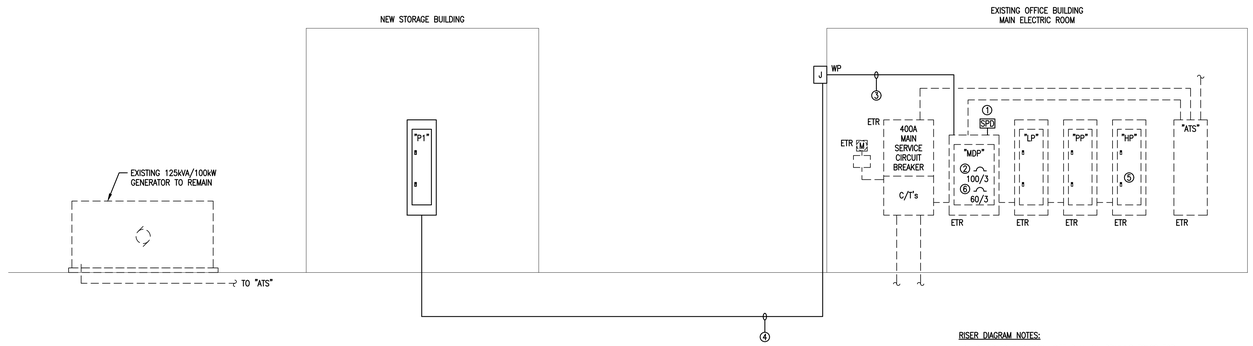
Sheet Contents

ELECTRICAL SITE PLAN

Project Number. 6790

Drawing No. ES100

Sheet of



1 ELECTRIC RISER DIAGRAM
E300 Scale: NOT TO SCALE

RISER DIAGRAM NOTES:

1. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.
2. THE EXISTING ELECTRICAL SERVICE IS RATED 208Y/120V, 3-PHASE, 4-WIRE, 400-AMPS. THE EXISTING ELECTRIC MAIN SERVICE CIRCUIT BREAKER AND PANELBOARDS "MDP", "LP", "PP", AND "HP" ARE ALL MANUFACTURED BY EPE. ALL NEW CIRCUIT BREAKERS AND EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE 100% COMPATIBLE WITH THE EXISTING ELECTRICAL EQUIPMENT AND SHALL MATCH THE EXISTING AIC RATINGS.

RISER DIAGRAM KEYED NOTES:

① PROVIDE SURGE PROTECTIVE DEVICE LISTED FOR USE ON SERVICE ENTRANCE EQUAL TO DITEK #DJ200M-120/208J3Y1.

② PROVIDE (1) NEW 100A/3P CIRCUIT BREAKER AT EXISTING PANEL "MDP" TO SERVE NEW STORAGE BUILDING PANELBOARD "P1".

1 ③ PROVIDE 4#2, #8G IN 2"C. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.

④ PROVIDE 4#2, #8G IN 2" SCHEDULE 40 PVC CONDUIT. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.

1 ⑤ PROVIDE (1) NEW 20A/1P CIRCUIT BREAKER AT EXISTING PANEL "HP". REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION. PROVIDE WITH EXTERNAL DEADFRONT GFCI DEVICE EQUAL TO LEVITON #GFRBF-W.

⑥ PROVIDE (1) NEW 60A/3P CIRCUIT BREAKER AT EXISTING PANEL "MDP" TO SERVE NEW SURGE PROTECTIVE DEVICE. PROVIDE 4#6,#10G,1-1/4"C.

VOLT 120/208
PHASE 3
WIRE 4
A.I.C. VERIFY

PANEL SCHEDULE
P1

MAIN 100A MCB
BUS 100A
FEED SEE RISER
MOUNT SURFACE

CKT NO	SERVICE DESCRIPTION	WATTAGE øA	WATTAGE øB	WATTAGE øC	BKR	POLES	ABC	BKR	POLES	WATTAGE øA	WATTAGE øB	WATTAGE øC	SERVICE DESCRIPTION	CKT NO
1	HIGHBAY LIGHTING – FRONT	530			20	1		20	1	180			GARAGE RECEPTACLES	2
3	HIGHBAY LIGHTING – REAR		539		20	1		20	1		540		GARAGE RECEPTACLES	4
5	STRIP LIGHTING			298	20	1		20	1			360	GARAGE RECEPTACLES	6
7	EXTERIOR LIGHTING	419			20	1		20	1	540			GARAGE RECEPTACLES	8
9			972					20	1		360		EXTERIOR RECEPTACLES	10
11	CEILING FAN BAF-1			972	15	3		20	1			432	HEATERS GIH-1/GIH-2	12
13		972						20	1	7			DRAIN TRAP PRIMER	14
15			972					20	1		200		GAS DETECTION SYSTEM	16
17	CEILING FAN BAF-2			972	15	3						791	EXHAUST FAN EF-1	18
19		972						20	2	791				20
21	CEILING FAN CONTROLLER		200		20	1		20	1		80		EXHAUST FAN EF-2	22
23	MEZZANINE RECEPTACLES			360	20	1		20	1			600	MOTORIZED DAMPERS	24
25		864						20	1	432			HEATERS GIH-3/GIH-4	26
27	OVERHEAD DOORS		864		15	3		20	1				SPARE	28
29			864					20	1				SPARE	30
31		864						20	1				SPARE	32
33	OVERHEAD DOORS		864		15	3			1				SPACE	34
35				864					1				SPACE	36
37	SPARE				20	1			1				SPACE	38
39	SPARE				20	1			1				SPACE	40
41	SPARE				20	1			1				SPACE	42
	SUB-TOTALS	TOTAL PHASE A LOAD (W): 6,139												
		TOTAL PHASE B LOAD (W): 5,591												
		TOTAL PHASE C LOAD (W): 6,945												
		TOTAL CONNECTED LOAD (W): 18,675												

Certification

Drawn by SD
Checked by DC

Revised on
1 ADDENDUM #2 06/28/24

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www.rgb.net

RGB ARCHITECTS
Architecture · Project Management · Interior Design

Project
DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

Drawing Status
100% CONSTRUCTION DOCUMENTS

Issued On 5/24/2024

Sheet Contents
ELECTRICAL RISER DIAGRAM AND PANELBOARD SCHEDULE

Project Number. 6790

Drawing No.
E300

Sheet of

SECTION 00 04 10 - FORM FOR GENERAL BID MGL C.149 OVER $150K

DATE:

TO THE AWARDING AUTHORITY: Dedham-Westwood Water District
50 Elm Street
Dedham, MA 02026

CARE OF: Mr. Blake Lukis, Executive Director

A. The Undersigned proposes to furnish all labor and materials required for renovations to the amenities building at Algonquin Regional High School located in Northborough, Massachusetts, in accordance with the accompanying plans and specifications prepared by RGB Architects for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

B. This bid includes addenda numbered:

_____

C. The proposed contract price is:

_____ dollars $_____._____
(Bid Amount in Words Bid Amount in Numbers)

For alternate No. _____ Add $_____ Subtract $_____

D. The subdivision of the proposed contract price is as follows:

ITEM 1. The work of the general contractor, being all work other than that covered by ITEM 2.

TOTAL OF ITEM 1 ..... $_____

Sub-trade Name of Filed Sub-bidder Sub-bid Amount Bond Required

Yes No (check one)

Sub-trade	Name of Filed Sub-bidder	Sub-bid Amount	Bond Required
_____	_____	_____	_____
_____	_____	_____	_____

_____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

TOTAL OF ITEM 2 ..... $_____

The undersigned agrees that each of the above named sub-bidders will be used for the work indicated at the amount stated, unless a substitution is made. The undersigned further agrees to pay the premiums for the performance and payment bonds furnished by sub-bidders as requested herein and that all of the cost of all such premiums is included in the amount set forth in ITEM 1 of this bid.

The undersigned agrees that if he is selected as general contractor, he will promptly confer with the awarding authority on the question of sub-bidders; and that the awarding authority may substitute for any sub-bid listed above a sub-bid filed with the awarding authority by another sub-bidder for the sub-trade against whose standing and ability the undersigned makes no objection; and that the undersigned will use all such finally selected sub-bidders at the amounts named in their respective sub-bids and be in every way as responsible for them and their work as if they had been originally named in this general bid, the total contract price being adjusted to conform thereto.

E. The undersigned agrees that, if he is selected as general contractor, he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this bid and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority and each in the sum of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price; provided, however, that if there is more than 1 surety company, the surety companies shall be jointly and severally liable.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to section 44A. The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the commonwealth under the provisions of section

twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

F. The undersigned agrees that the unit prices Work described under Division 01 22 00 UNIT PRICES are applicable for additional or deductive work from that as specified or shown on the Contract Documents. Include Section 01 22 00 with Bid Form.

_____

NAME OF BIDDER

_____

SIGNATURE AND TITLE OF PERSON SIGNING BID

Date: _____

BUSINESS ADDRESS

_____

END OF SECTION 00 04 10

AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)

BOND AMOUNT: $

PROJECT:
(Name, location or address, and Project number, if any)

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this day of ,

	(Contractor as Principal) *(Seal)*
(Witness)	*(Title)*
	(Surety) *(Seal)*
(Witness)	*(Title)*

SECTION 08 36 00 - SECTIONAL OVERHEAD DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Insulated Sectional Overhead Doors.

B. Electric Operators and Controls.

C. Operating Hardware, tracks, and support.

1.2 RELATED SECTIONS

A. Section 03300 - Cast-In-Place Concrete: Prepared opening in concrete. Execution requirements for placement of anchors in concrete wall construction.

B. Section 05500 - Metal Fabrications: Steel frame and supports.

C. Section 06114 - Wood Blocking and Curbing: Rough wood framing and blocking for door opening.

D. Section 07900 - Joint Sealers: Perimeter sealant and backup materials.

E. Section 08710 - Door Hardware: Cylinder locks.

F. Section 09900 - Paints and Coatings: Field painting.

G. Division 13 – Metal Building Systems

H. Division 26 – Electrical for Raceway and Boxes: Empty conduit from control station to door operator.

I. Division 26 – Electrical for Wiring Connections: Electrical service to door operator.

1.3 REFERENCES

A. ANSI/DASMA 102 - American National Standard Specifications for Sectional Overhead Type Doors.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

A. Wiring Connections: Requirements for electrical characteristics.
   1. 230 volts, three phase, 60 Hz.

B. Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.5 SUBMITTALS

A. Submit under provisions of Section 01 30 00.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.

D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

E. Operation and Maintenance Data.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.

B. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.

C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened labeled packaging until ready for installation.

B. Protect materials from exposure to moisture until ready for installation.

C. Store materials in a dry, ventilated weathertight location.

1.8 PROJECT CONDITIONS

A. Pre-Installation Conference: Convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

1.9 WARRANTY

A. Warranty: Manufacturer’s limited door warranty for 10 year against delamination of polyurethane foam from steel face and all other components for 1 year.

B. Warranty: Manufacturer’s limited door and operators System warranty for 10 year against delamination of polyurethane foam from steel face and all other components for 3 years or 20,000 cycles, whichever comes first.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacture: Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: sales@overheaddoor.com.

B. Equivalate products by the following manufactures may be submitted for approval:

1. Clopay Corporation; 8585 Duke Blvd Mason, OH, 45040-3100; website: https://www.clopaydoor.com/ phone: 1-800-225-6729
2. Norco Industrial Doors; Norco Manufacturing, PO Box 246, Franksville, WI 53126; website: https://norcom; phone: (262) 835-2600
3. Wayne Dalton Wayne Dalton; 2501 S. State Highway 121 Business, Suite 200, Lewisville, TX 75067. ASD. Phone: (800) 827-3667; Web Site:www.wayne-dalton.comEmail:info@wayne-dalton.com.
4. Kelley Loading Dock Equipment, 1612 Hutton Drive, Suite 140 Carrollton, Texas 75006, email: kelley@4frontes.com, website: https://kelleydocksolutions.com/; phone: 866-714-6679

C. Requests for substitutions will be considered in accordance with provisions of Section 016000.

2.2 INSULATED SECTIONAL OVERHEAD DOORS

A. Insulated Steel Sectional Overhead Doors: 592 Series Thermacore Insulated Steel Doors by Overhead Door Corporation. Units shall have the following characteristics:
1. Door Assembly: Metal/foam/metal sandwich panel construction, with PVC thermal break and weather-tight ship-lap design meeting joints.
a. Panel Thickness: 2 inches (51 mm).
b. Exterior Surface: Ribbed, textured.
c. Exterior Steel: .015 inch (.38 mm), hot-dipped galvanized.
d. End Stiles: 16 gauge with thermal break.
e. Spring Counterbalance: Sized to weight of the door, with a helically wound, oil tempered torsion spring mounted on a steel shaft; cable drum of diecast aluminum with high strength galvanized aircraft cable. Sized with a minimum 7 to 1 safety factor.
1) Standard cycle spring: 10,000 cycles.
f. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
g. Thermal Values: R-value of 17.50; U-value of 0.057.
h. Air Infiltration: 0.08 cfm at 15 mph; 0.08 cfm at 25 mph.
i. Pass-Door:
1) Provide with optional pass door.
j. High-Usage Package: Provide with optional high-usage package.
k. Partial Glazing of Steel Panels:
1) 1/2 inch (12.5 mm) Tempered Insulating glass.
2. Finish and Color:
a. Two coat baked-on polyester:
1) Interior color: white
2) Exterior color: Match adjacent insulated wall panel colors (white and red)
3. Windload Design: Provide to meet the Design/Performance requirements specified.
4. Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.
5. Lock:
a. Keyed lock.
6. Weatherstripping:
a. EPDM bulb-type strip at bottom section.
b. Flexible Jamb seals.
c. Flexible Header seal.
7. Track: Provide track as recommended by manufacturer to suit loading required and clearances available.
a. Size: 3 inch (76 mm).
b. Type: Standard lift.
8. Manual Operation: Chain hoist.
9. Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3

foot nor more than 1 foot per second. Operator shall meet UL325/2010 requirements for continuous monitoring of safety devices.

a. Entrapment Protection: Required for momentary contact, includes radio control
   1) Photoelectric sensors monitored to meet UL 325/2010.
b. Operator Controls:
   1) Push-button and key operated control stations with open, close, and stop buttons.
   2) Surface mounting.
   3) Both interior and exterior location.
c. Special Operation:
   1) Vehicle detector operation.
   2) Door timer operation.

2.3 EXAMINATION

A. Do not begin installation until openings have been properly prepared.

B. Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.

C. Verify electric power is available and of correct characteristics.

D. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

2.4 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

2.5 INSTALLATION

A. Install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions.

B. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.

C. Anchor assembly to wall construction and building framing without distortion or stress.

D. Securely brace door tracks suspended from structure. Secure tracks to structural members only.

E. Fit and align door assembly including hardware.

F. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.

2.6 CLEANING AND ADJUSTING

A. Adjust door assembly to smooth operation and in full contact with weatherstripping.

B. Clean doors, frames and glass.

C. Remove temporary labels and visible markings.

2.7 PROTECTION

A. Do not permit construction traffic through overhead door openings after adjustment and cleaning.

B. Protect installed products until completion of project.

C. Touch-up, damaged coatings and finishes and repair minor damage before Substantial Completion.

END OF SECTION 08 36 00

SECTION 32 31 23 - VINYL FENCING AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes
   1. Privacy Fence
   2. Post Caps
   3. Gates
   4. Gate Hardware

1.3 RELATED SECTIONS

A. Section 03 30 00 - Cast-in-Place Concrete.

1.4 REFERENCES

A. ASTM D 1784 - Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.

1.5 DESIGN / PERFORMANCE REQUIREMENTS

A. Provide fencing to meet applicable code requirements.

1.6 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

B. Shop Drawings: Submit shop drawings for each product and accessory required. Include information not fully detailed in manufacturer's standard product data.

C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

D. Verification Samples: For each finish product specified, two samples, minimum size 3 inches (76 mm) square, representing actual product, color, and patterns.

E. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

F. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic cleaning and maintenance of all components.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications: A firm engaged in the manufacture of vinyl fence and gates of types and sizes specified, and whose products have been in satisfactory use in similar service for a minimum of five years.

B. Installer Qualifications: A firm with a minimum of two years of successful installation experience with projects utilizing vinyl fence and gates similar in type and scope to that required for this Project.

C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
   1. Finish areas designated by Architect.
   2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
   3. Refinish mock-up area as required to produce acceptable work.
   4. Accepted mock-ups shall be comparison standard for remaining Work

D. Pre-Installation Conference: Conduct pre-installation conference in accordance with Section 01 20 00 - Price and Payment Procedures. Date and time of the pre-installation conference shall be acceptable to the Owner and the Architect.
   1. Prior to commencing the installation, meet at the Project site to review the material selections, installation procedures, and coordination with other trades.
   2. Mock-ups shall be reviewed during the pre-installation conference.
   3. Pre-installation conference shall include the Contractor, the Installer, and any trade that requires coordination with the work.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the Project site in manufacturer's original wrappings and containers, labeled with supplier's or manufacturer's name, material or product brand name, and lot number, if any.

B. Store materials in their original, undamaged packages and containers, inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1.9 SEQUENCING

A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.

B. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.10 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.11 WARRANTY

A. Lifetime Limited, Non-Prorated Warranty on Material and 5 Year Prorated Labor Warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Key-Link Fencing & Railing and Superior Plastic Products, which is located at: 260 Jalyn Dr.; New Holland, PA 17557; Toll Free Tel: 800-633-7093; Fax: 717-355-7129; Email:request info (jsurovi@superiorplastic.net); https://superiorplasticproducts.com

B. Equivalent products by the following manufacturers may be submitted for approval:
   1. Bufftech by Barrette Outdoor Living
   2. Walpole Outdoors
   3. National Vinyl Products

C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 MATERIALS

A. PVC: Poly Vinyl Chloride (PVC) formulated to resist impact and for Ultraviolet (UV) stabilization. Extruded products meets or exceeds ASTM D I784.

2.3 PRIVACY FENCE

A. Basis of Design: Hamilton Vinyl Privacy Fence
   1. Height: 6 foot to match existing
   2. Top and Bottom Horizontal Rails: 2 inch by 7 inch; verify to match existing
   3. Vertical Panels: 3/4 inch by 10 inch interlocking; verify to match existing
   4. Posts: 5 inch by 5 inch; verify to match existing
   5. Gates and Posts: Matching fence style.
   6. Colors: white

2.4 POST CAPS
   1. Vinyl Post Cap
   2. Size:5 inch New England; verify to match existing
   3. Color: White

2.5 GATE HARDWARE

A. Gate Hardware: Stainless steel with aluminum latch clappers.
   1. Aluminum Gate Handle.
   2. Gate Wheel.
   3. Aluminum Gate Brace.
   4. Hinge Set
   5. Commercial Latch: Stainless steel with aluminum latch clapper.
      a. Drop Pin Kit - Commercial
   6. Finish/Color: Powder coated
      a. Black

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not begin installation until conditions have been properly prepared.

B. Verification of Conditions: Examine locations where fencing is to be installed for any conditions detrimental to the proper and timely completion of the work.

C. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare the grade and remove surface irregularities, if any, which may cause interference with the installation of the fence.

C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Ins tall in accordance with manufacturer's instructions.

B. Set posts and gate posts for gate openings as indicated on the Drawings.

C. Center and align posts, place concrete around posts and vibrate or tamp for consolidation. Recheck vertical and top alignment of posts, and make necessary corrections.

D. Install gates plumb, level, and secure for full opening without interference. For double gates, install drop rod. Adjust hardware for smooth operation.

3.4 CLEANING

A. Touch-up, repair, or replace damaged products before Substantial Completion.

B. Clean the work according to manufacturer's written instructions. Post hole excavations shall be scattered uniformly away from the posts. Clean fence with mild household detergent and rinse well with clean water. Remove mortar from exposed posts using a 10 percent solution of muriatic acid followed immediately by several rinses with clean water.

3.5 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 32 31 23

#6790	Dedham Westwood Water District Storage Facility and Site Improvements
	Plan Holder List
#	**Company Name**
1	Ace Restoration Co. Inc.
2	AMI Boston Masonry/Restoration, Inc.
3	Araujo Bros Plumbing & Heating
4	AVCO Electric, Inc.
5	Beacon Building Supply
6	**Beacon Waterproofing and Restoration**
7	Brite-Lite Electrical Co., Inc.
8	CAM HVAC & CONSTRUCTION INC.
9	CDS Contracting Services, LLC
10	Cenedella Masonry Inc
11	Collins Construction
12	Commercial Masonry Corp.
13	Costa Brothers Masonry
14	**Dagle Electrical Construction Corp**
15	D&C Construction Co., Inc.
16	**EJ Prescott**
17	Empire Masonry Corp
18	Enterprise Equipment Co. Inc.
19	**EV Mechanical INC**
20	Fernandes Masonry
21	G&H Heating and Cooling, llc
22	**Glionna Plumbing & Heating Services, Inc**
23	G.V.W., Inc
24	GenCon Construction
25	Jandris Block
26	JJ Cardosi Inc
27	Kneeland Plumbing & Heating, Inc.
28	L & L Contracting, Inc.
29	laPan mechanical
30	Marmelo Bros Construction
31	MRCSolutions LLC
32	M-V Electrical Contractors, Inc.
33	Nadeau Corporation
34	Needham Certified Welding Corp.
35	New England Specialty Services Inc.
36	Northern Contracting Corp
37	Performance Plumbing & Heating
38	PJ Dionne Company, Inc
39	Quinn Bros. of Essex, Inc.
40	**Robert W. Irvine & Sons, Inc.**
41	Seaver Construction
42	South Coast Improvement Company
43	**SYSTEMS CONTRACTING INC**
44	TCD Construction
45	TerraCalc
46	Tower Construction
47	United Steel, Inc
48	Vantage Builders
49	Veterans Development Corporation, Inc.
50	VG Iron
51	Wayne J. Griffin Electric, Inc.
52	WCI Corp.

53	WES Construction Corp.
54	Willke The Waterproofing Company LLC
55	**V & G Iron Works, Inc**
56	**Vantage Builders**