

DOCUMENT 009113.02 – ADDENDA 02

1.1 PROJECT INFORMATION

- A. Project Name: Grove Pond Water Treatment Plant (WTP) PFAS Treatment Facilities.
- B. Owner: Town of Ayer, Massachusetts.
- C. Owner Project Number: 19DPW08.
- D. Engineer: CDM Smith Alan G. LeBlanc, P.E., BCEE.
- E. Date of Addendum: May 20, 2019.

1.2 NOTICE TO BIDDERS

- A. This Addendum is issued to all registered plan holders pursuant to the INSTRUCTIONS to Bidders. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. The date for receipt of bids is unchanged by this Addendum, at same time and location.

1.3 ATTACHMENTS

- A. This Addendum includes the following attached Documents and Specification Sections:
  - 1. Document 1. Sketch SK-A-2, dated Friday, May 17, 2019, (new).
  - 2. Document 2. Copy of Drawing G-1 by Haley and Ward, last revised 4/11/1996, (new).
  - 3. Document 3. Copy of Drawing E-7 by Haley and Ward, last revised 4/12/1996, (new).

1.4 REVISIONS TO PREVIOUS ADDENDA

- A. Addendum No. 1, Item 1.5.D modified several notes on Drawing H-2. Engineer hereby further clarifies that pipe insulation is to be furnished and installed by Division 23, but the process piping itself is not required to be furnished and installed by Division 23.

1.5 REVISIONS TO DIVISION 01 GENERAL REQUIREMENTS

A. Specification Section 015000 “Temporary Facilities and Controls”

1. Article 1.4 – INFORMATIONAL SUBMITTALS, Paragraph 1.4.F: Add the following Paragraph 1.4.G after Paragraph 1.4.F.5:

“G. Staging certifications required by “Staging” article.”

2. Article 2.3 – EQUIPMENT: Insert the following Article 2.4 after 2.3.C:

“2.4 STAGING (MASSACHUSETTS FILED SUB-BID REQUIREMENTS)

A. All staging, planking and scaffolding, exterior and interior, required for the proper execution of the work and over eight feet in height, shall be furnished, installed, and maintained by the Contractor. Individual subcontractors shall be responsible for notifying the Contractor for moving staging, planking and scaffolding with sufficient notice to allow the Contractor's timely response. The Contractor will be responsible for all potential costs from subcontractors if timely response is not provided.

1. Erection and dismantling of staging shall be performed only by trained, certified, and experienced staging personnel qualified to perform such work.
2. Provide certifications, indicating qualifications, training and experience prior to commencement of such erecting and dismantling work.

B. All staging up to eight feet in height shall be provided by the individual subcontractors as applicable to their work.”

B. Specification Section 019113 “General Commissioning Requirements” (not reissued).

1. Article 1.3 ALLOWANCES: Delete in its entirety.

1.6 REVISIONS TO DIVISIONS 02 - 49 SPECIFICATION SECTIONS

A. Specification Section 070150.19 “Preparation for Reroofing”

1. Article 1.6 – CLOSEOUT SUBMITTALS: Delete Article 1.6 in its entirety.
2. Article 3.1 - PREPARATION, Paragraph 3.1.A.4: Delete Paragraph 3.1.A.4 in its entirety.

B. Specification Section 075323 “Ethylene-Propylene-Diene-Monomer (EPDM) Roofing”, (not reissued).

1. Article 1.2 – SUMMARY, Paragraph 1.2.A: Add the following Paragraph 1.2.A.7 after paragraph 1.2.A.6.

“7. Ballasted loose-laid ethylene-propylene-diene-Monomer (EPDM) roofing.”

2. Article 2.2 - ETHYLENE-PROPYLENE-DIENE-TERPOLYMER (EPDM) ROOFING, Paragraph 2.2.A.2: Replace Paragraph 2.2.A.2 with the following.
  - “2. Exposed Face Color: White on Black for adhered system at new construction.  
Black to match existing for ballasted system at existing building.”
3. Article 2.3 – AUXILIARY ROOFING MATERIALS, Paragraph 2.3.N: Insert the following Paragraph 2.3.O after Paragraph 2.3.N.
  - “O. Ballast: Reuse salvaged ballast from existing roofing as specified in Section 070150.19 “Preparation for Reroofing”.
4. Article 2.6 – ROOF INSULATION, Paragraph 2.6.B: Replace “Polyisocyanurate Board Insulation:” with “(Non-Ballasted Roofing Insulation) Polyisocyanurate Board Insulation:”.
5. Article 2.6 – ROOF INSULATION, Paragraph 2.6.C.3.b: Insert the following Paragraph 2.6.D after Paragraph 2.6.C.3.b.
  - “D. Ballasted Roofing Insulation: Extruded Polystyrene Board Insulation, Type VI: ASTM C578, Type VI, 40-psi minimum compressive strength.
    1. Manufacturers: Provide products by one of the following:
      - a. DiversiFoam Products.
      - b. Dow Chemical Company (The).
      - c. Kingspan Insulation Limited.
      - d. Owens Corning.
      - e. Or equal.
    2. Flame-Spread Index: Not more than 25 when tested in accordance with ASTM E84.
    3. Smoke-Developed Index: Not more than 450 when tested in accordance with ASTM E84.
    4. Labeling: Provide identification of mark indicating R-value of each piece of insulation 12 inches and wider in width.”
6. Article 2.8 – ASPHALT MATERIALS: Delete Article 2.8 in its entirety.
7. Article 3.1 – EXAMINATION, Paragraph 3.1.A.4.a: Replace Paragraph 3.1.A.4.a with the following.
  - “a. Testing Frequency: Three test probes.”
8. Article 3.2 – PREPARATION, Paragraph 3.2.D: Delete Paragraph 3.2.D in its entirety.
9. Article 3.6 – INSULATION INSTALLATION: Delete Paragraphs 3.6.C.1.h.1 and 3.6.C.1.h.2 in their entirety.

10. Article 3.8 - MECHANICALLY FASTENED MEMBRANE ROOFING INSTALLATION: Insert the following Article 3.9 after 3.8.M and renumber the following Articles sequentially 3.10, 3.11, 3.12 and 3.13.

“3.9 INSTALLATION OF LOOSELY LAID AND BALLASTED ROOF MEMBRANE”

- A. Loosely lay roof membrane over area to receive roofing according to roofing system manufacturer's written instructions.
- B. Unroll roof membrane and allow to relax before installing.
- C. Comply with requirements in ANSI/SPRI RP-4 for System 1, 2 or 3, to match the existing system.
- D. Accurately align roof membrane, without stretching, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- E. Mechanically fasten or adhere perimeter of roof membrane, to match existing, according to requirements in ANSI/SPRI RP-4.
- F. Provide Adhesive Seams or taped seams to match the existing.
  - a. Adhesive Seam Installation: Clean both faces of splice areas, apply splicing cement. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of roofing terminations. Apply a continuous bead of in-seam sealant before closing splice if required by roofing system manufacturer.
  - b. Tape Seam Installation: Clean and prime both faces of splice areas, apply splice tape. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of roofing terminations.
- G. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.
- H. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.
- I. Install protection mat over roof membrane, overlapping a minimum of 6 inches. Install an additional protection mat layer at projections, pipes, vents, and drains, overlapping a minimum of 12 inches.
- J. Salvaged Ballast: Apply uniformly over roof membrane. Lay ballast as roof membrane is installed, leaving roof membrane ballasted at end of workday.”

## 1.7 REVISIONS TO DRAWING SHEETS

- A. Sheet No. A-6 – Section 3 (not reissued). Refer to SK-A-2, attached, for material modifications associated with revised detail E/A-7.
- B. Sheet No. A-7 – Details I (not reissued).
  - 1. Detail E: Replace Detail E with the attached SK-A-2.
  - 2. Add a General Note to the Drawing as follows:

“NOTE: REFER TO SHEET A-4 FOR BALLASTED AND NON-BALLASTED ROOFING LOCATIONS.”

## 1.8 QUESTIONS AND ANSWERS

- A. **Question:** Regarding Section 019113 - General Commissioning Requirements. Please provide a list of spec sections to which this section is applicable? As an example, does this section only apply to the Filters and SCADA System, or would this include everything down to light fixtures and door hardware?  
**Reply:** The requested list is a requirement by the Contractor to provide. Commissioning requirements are outlined individually in Specifications Divisions 02-49.
- B. **Question:** Regarding Section 017419 - Construction Waste Management and Disposal, please confirm if it is the intent for the contractor and sub-contractors to separate out all of the material as specified?  
**Reply:** Yes.
- C. **Question:** Please provided the name of the manufacturer and warranty information on the existing ballasted EPDM roof? Is this roof still under warranty?  
**Reply:** The warranty requirement was deleted in Addenda 01. The manufacturer of the existing roofing is Carlisle SynTec Incorporated. See “REVISIONS TO DIVISIONS 02 - 49 SPECIFICATION SECTIONS.”
- D. **Question:** Detail E on Drawing A-7 is the only detail showing the new ballasted EPDM Roof. Please confirm the roofing contractor is to provide rigid insulation, vapor barrier, substrate/cover board and EPDM membrane for this system?  
**Reply:** The extents of “New Ballasted Loose Laid EPDM” roofing and “Adhered White EPDM Roofing System (No Ballast),” are indicated on Sheet No. A-4. For the “ballasted” EPDM roofing system. See “ATTACHEMENTS”, “REVISIONS TO DRAWING SHEETS”, and “REVISIONS TO DIVISIONS 02 - 49 SPECIFICATION SECTIONS.”
- E. **Question:** On Drawing P-1 Note 2 says that all buried piping must be encased in concrete. Does that include the floor drain piping and vent piping?  
**Reply:** The party asking the question seems to have incorrectly cited Drawing P-1 but Note 2 on Drawing P-2 applies to the sanitary and vent piping.
- F. **Question:** Please confirm that only two of the floor drains will be connected to the Trap Primer.  
**Reply:** Per the Accepted Plumbing Products Online System by Massachusetts Board of Registration of Plumbers and Gas Fitters for the product Sure Seal by RectorSeal - 4” Inline

floor drain trap sealer – In a single room that is serviced by one floor drain or similar device a trap sealer may not be used. In a single room that is serviced by more than one floor drain Trap Sealers may be installed for 90% only. Based on that paragraph the OED and one floor drain should be connected to the trap primer and the other three floor drains can have trap sealers installed since it is one large open room.

- G. **Question:** Drawing C-5 indicates existing process piping, propane gas, and buried electrical immediately west of the proposed AIX Effluent piping. Can you clarify what buried utilities exist in that vicinity?

**Reply:** Please refer to attached Document 2, which is a copy of Drawing G-1 by Haley and Ward, last revised 4/11/1996 and Document 3, which is a copy of Drawing E-7 by Haley and Ward, last revised 4/12/1996. Engineer makes no warranty that Document 2 and Document 3 are accurate at present, but the documents are provided as the best available information for bidding and construction planning purposes.

- H. **Question:** Per Section 013300 – Submittal Procedures 1.13, the contractor shall include the full cost of Submittal Exchange for the project. Section 013100 – Project Management and Coordination 1.8 B. states that the contractor is responsible for the full cost of one of the following software packages listed under item 4. Where submittal exchange is required under a separate section, is spec 013100 applicable to this project? If it is applicable, is Submittal Exchange acceptable for this section as well?

**Reply:** Submittal Exchange will also fulfill all of the requirements cited in the question.

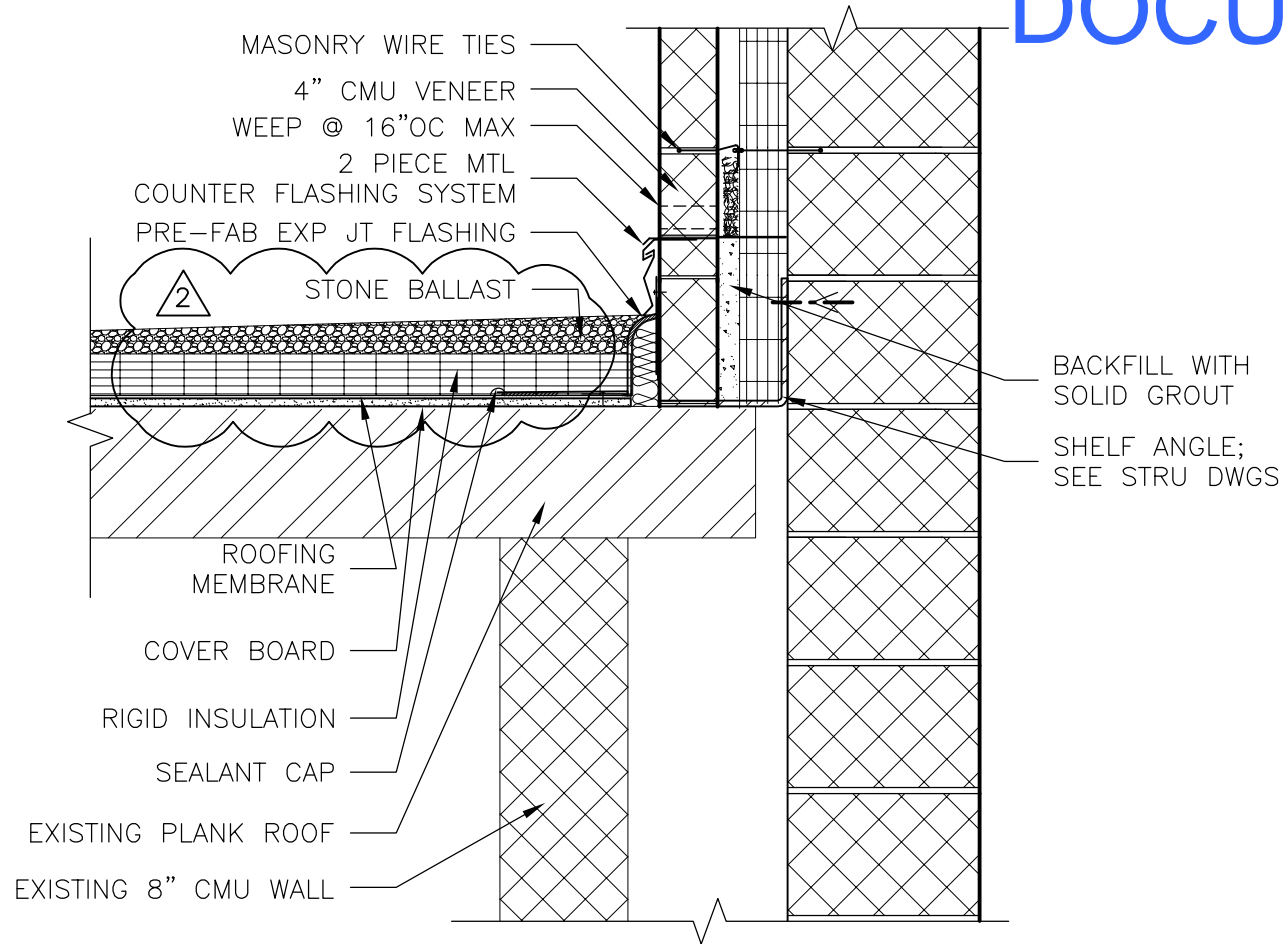
- I. **Question:** Section 013200 1.7 B.1. lists Primavera as the scheduling software for the project. Is Microsoft Project acceptable?

**Reply:** Yes.

END OF DOCUMENT 009113.02

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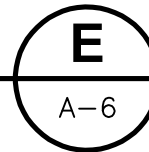
# DOCUMENT 1



REVISED ROOF @ EXT

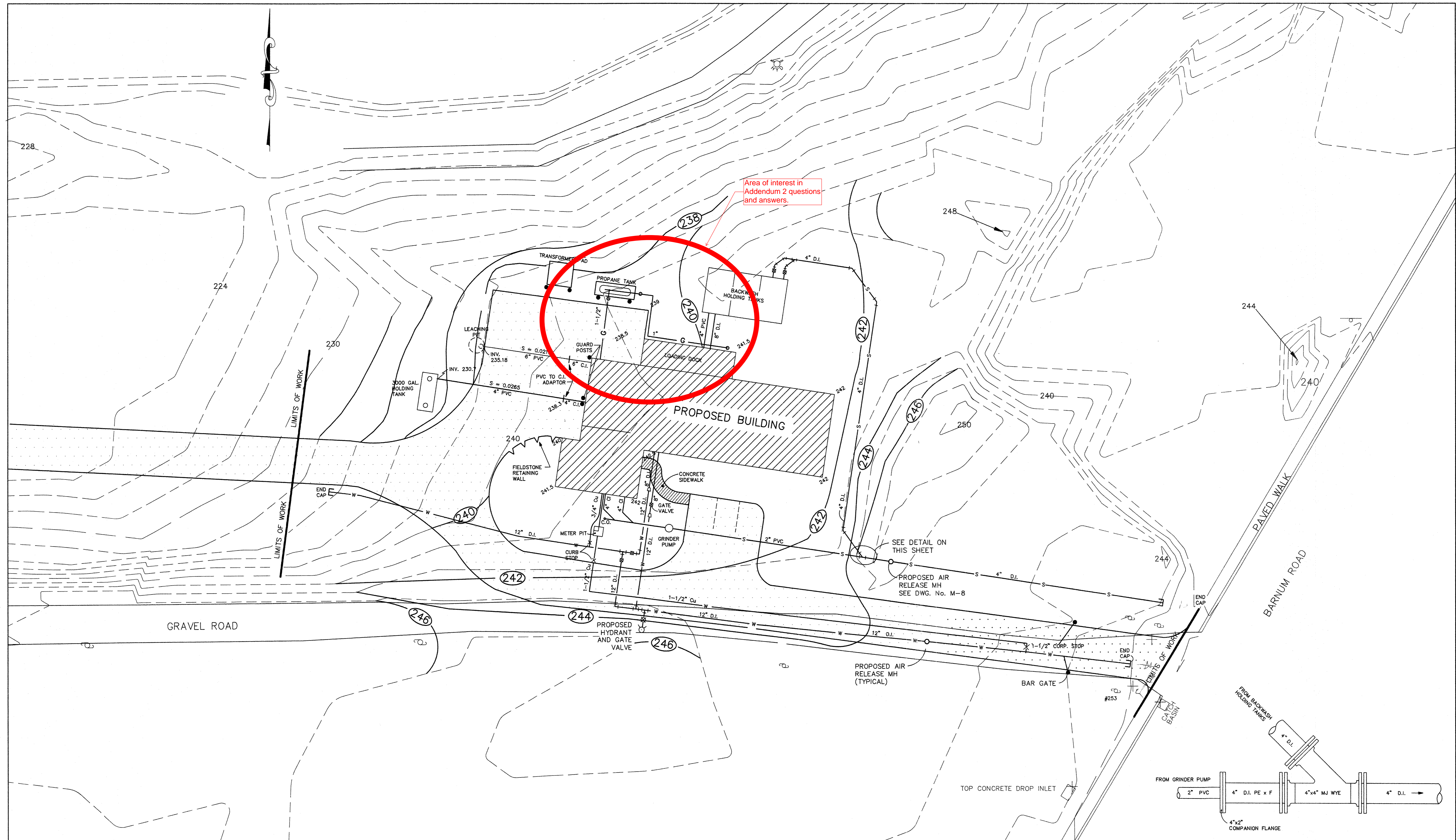
**DETAIL**

1" = 1'-0"



TOWN OF AYER, MA  
 GROVE POND WATER TREATMENT PLANT  
 PFAS TREATMENT FACILITIES  
 CONTRACT NO. 19DPW08

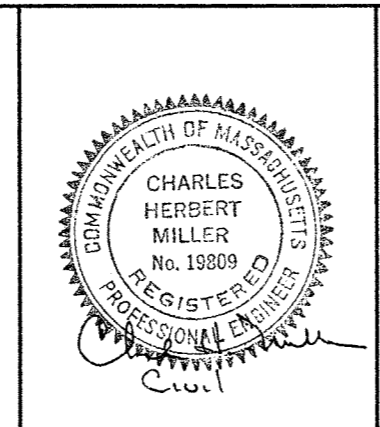
DATE: MAY 17, 2019		ADDENDUM NO.	FIGURE NO.
SHEET NO.	LOCATION	2	SK-A-2
A-7	E		



**HALEY AND WARD, INC.**  
25 FOX ROAD  
WALTHAM, MASSACHUSETTS 02154

SHEET NO.:	
CONTRACT NO.:	
SCALE:	1" = 20'
DATE DRAWN:	SEPTEMBER, 1995
DRAWN BY:	SAT
FILE NO.:	AYER\003-002

REV.	DATE	BY
1	12/8/95	SAT
2	12/28/95	SAT
3	1/5/96	SAT
4	1/11/96	SAT
5	1/22/96	SAT
6	2/08/96	SAT
7	4/11/96	SAT



### KEY

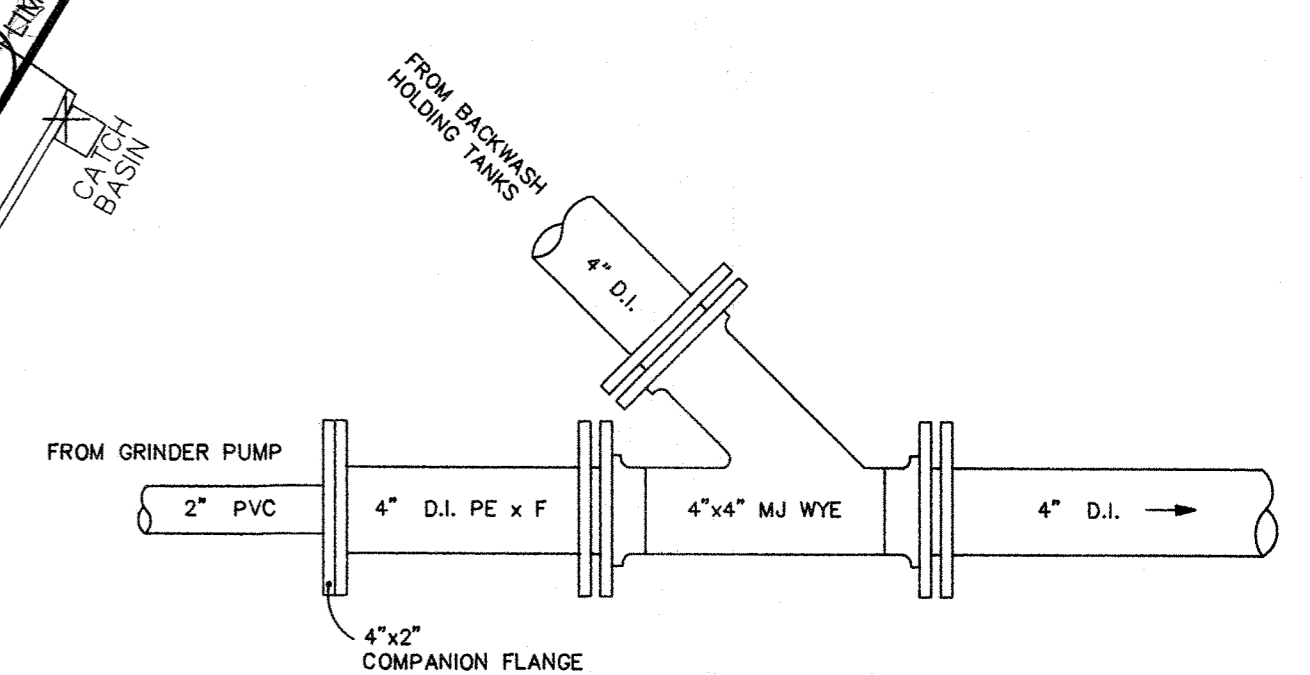
LEGEND	
XXX	PROPOSED ELEVATION
XXX	EXISTING ELEVATION
---	PROPOSED ROADWAY
S	PROPOSED SEWER MAIN
W	PROPOSED WATER MAIN
⊗	GATE VALVE
●	GUARD POST

### NOTES

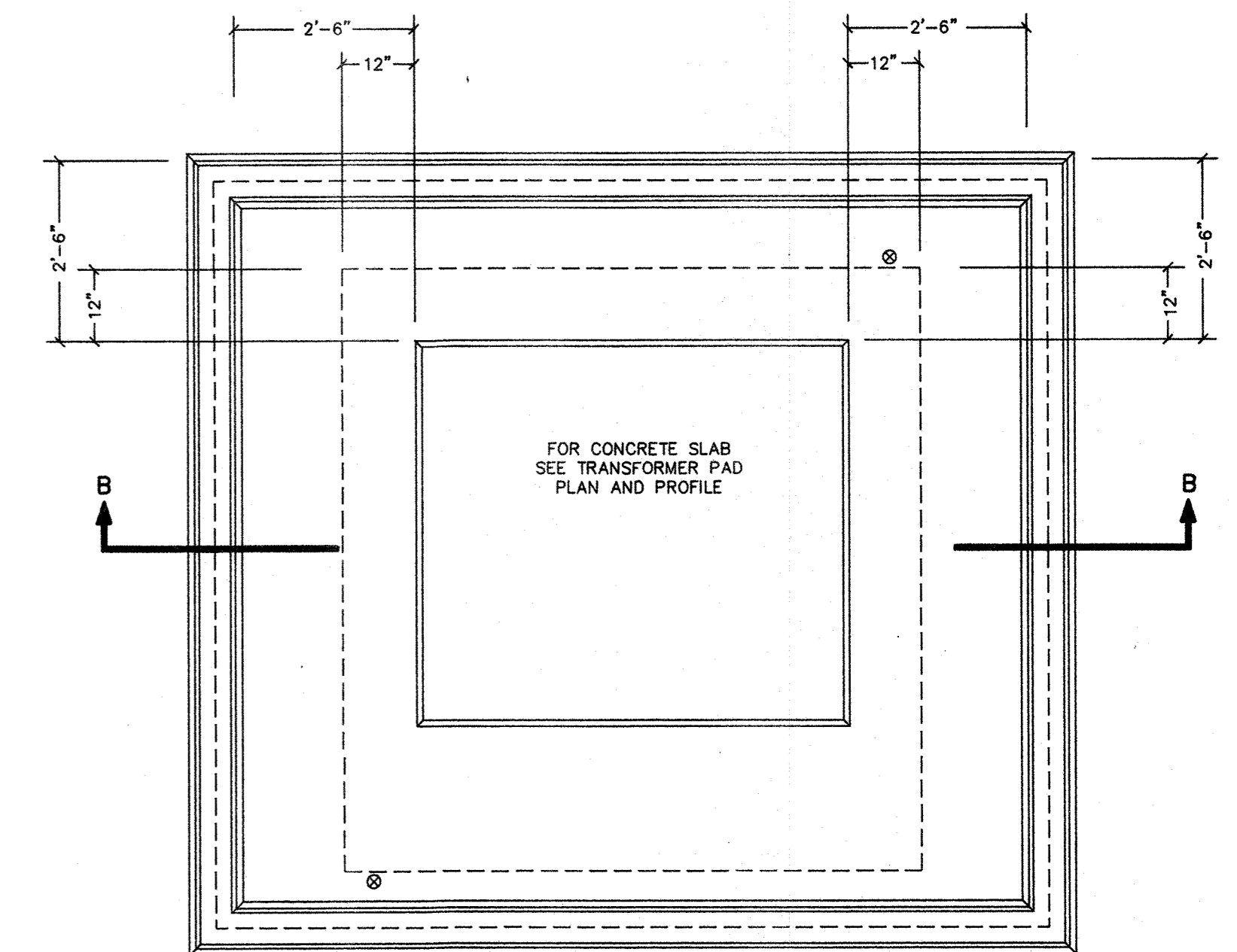
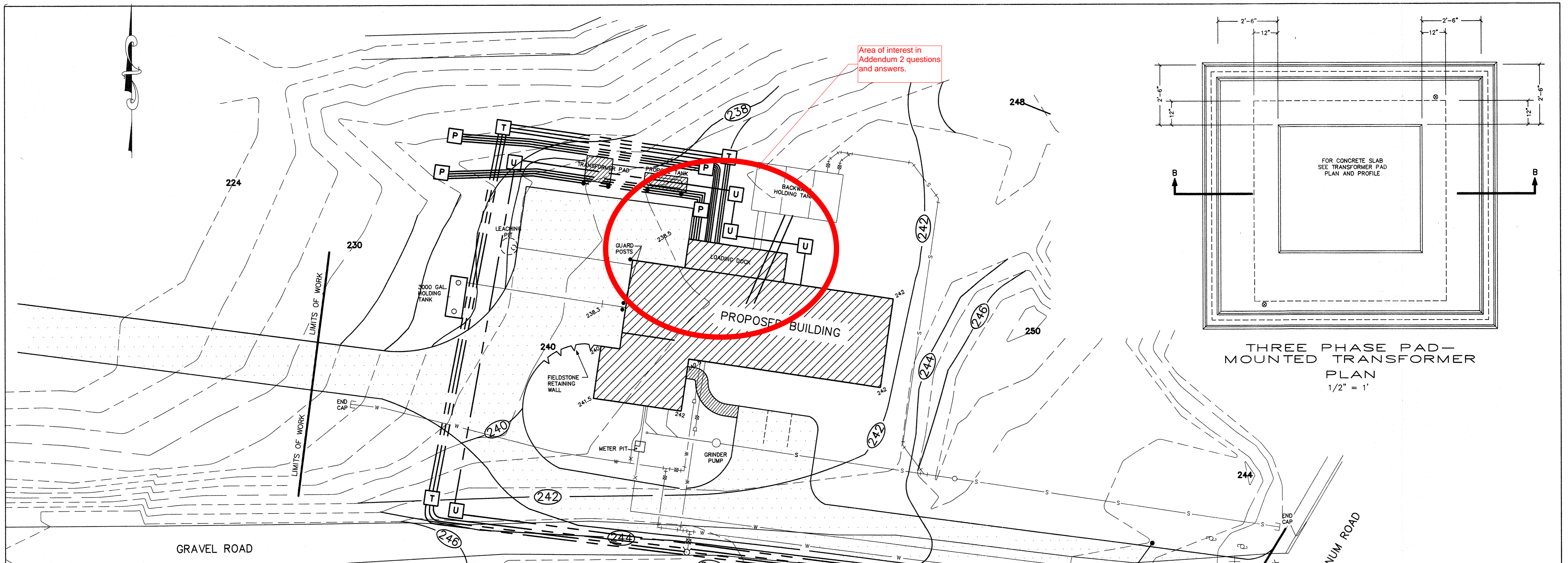
- ROUGH GRADE SITE TO LIMITS OF WORK  
FINISH GRADE BY OWNER.

TOWN OF AYER, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS  
**SITE/GRADING PLAN**

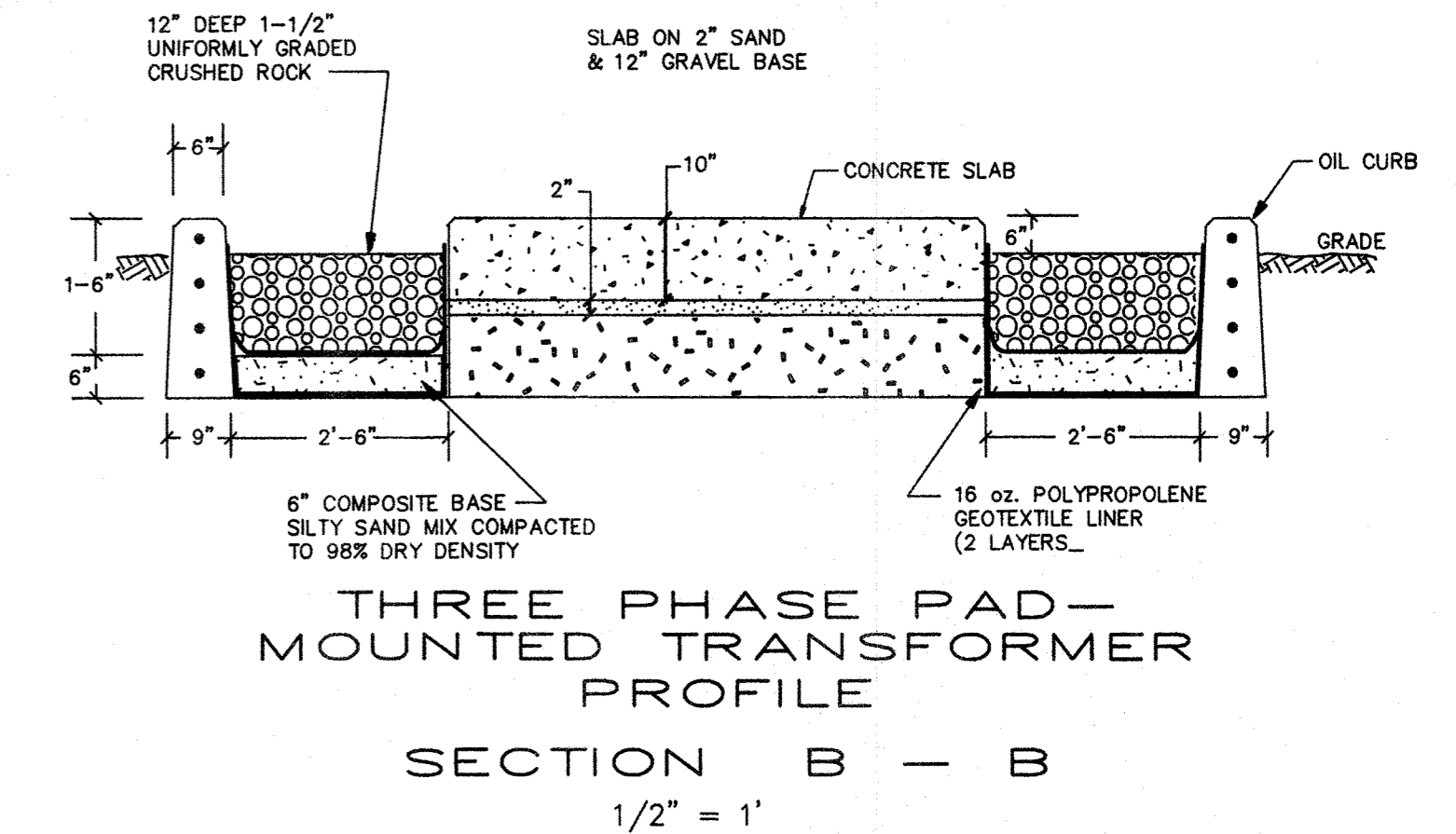
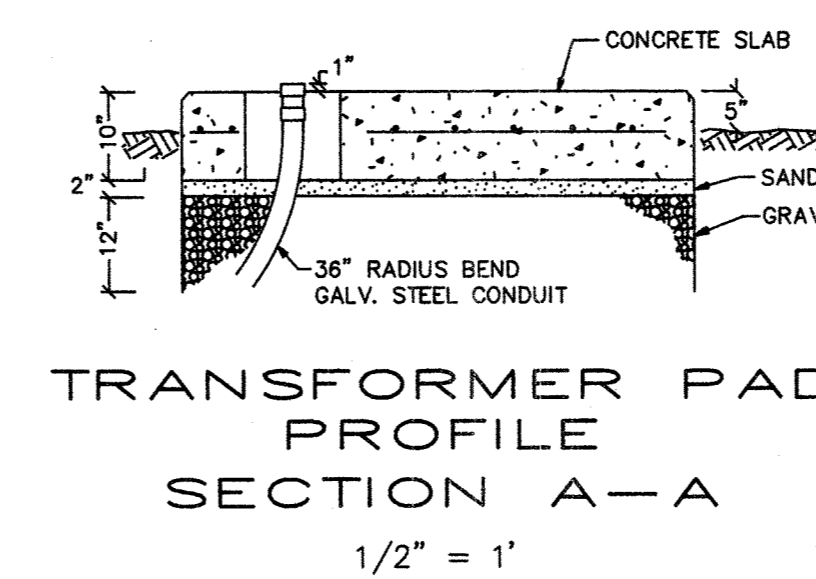
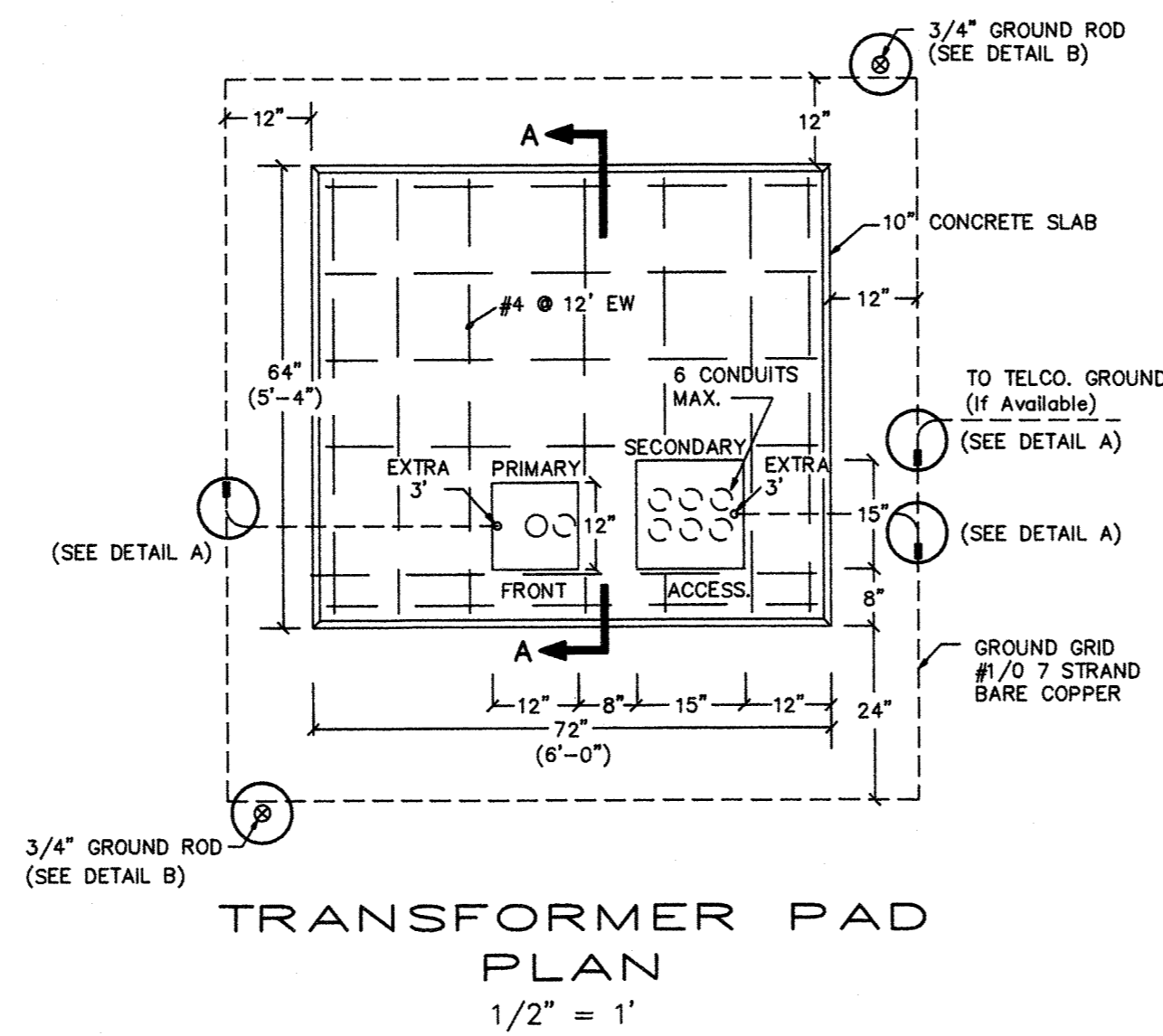
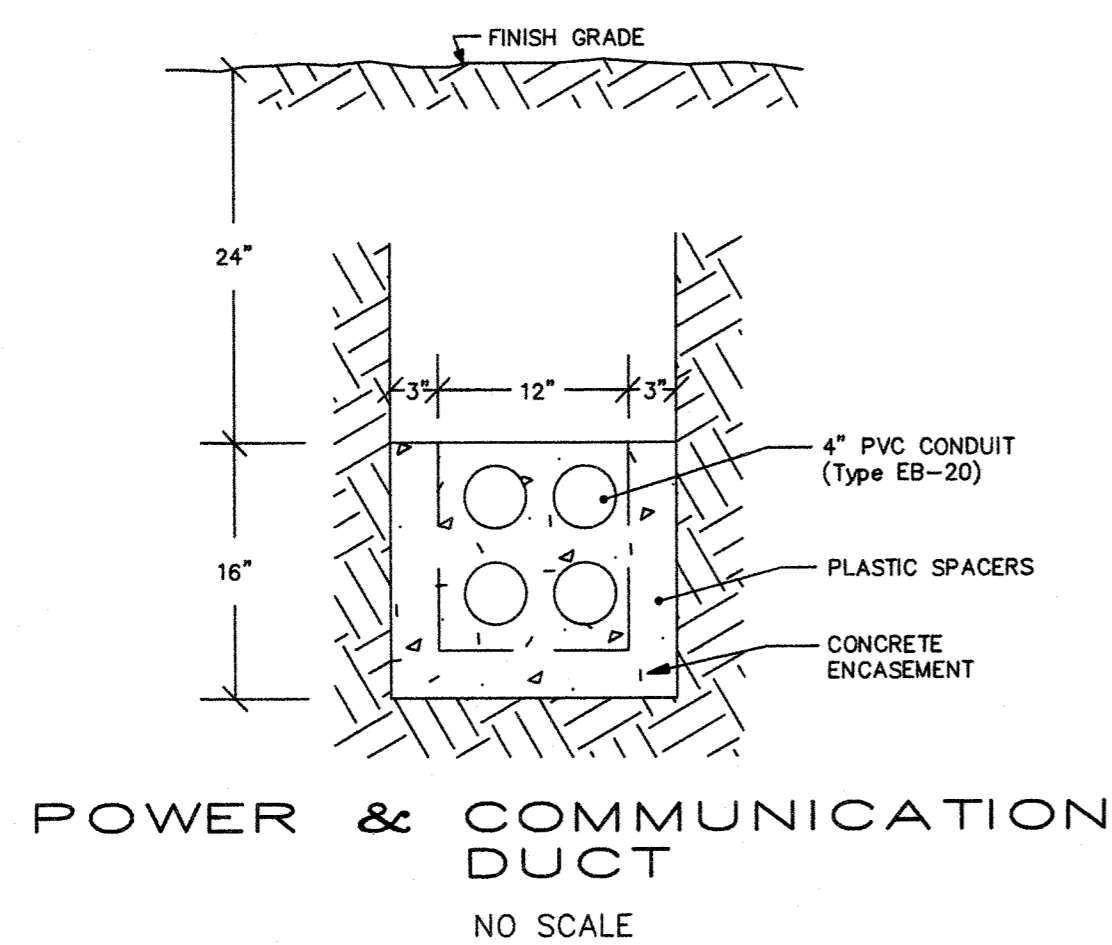
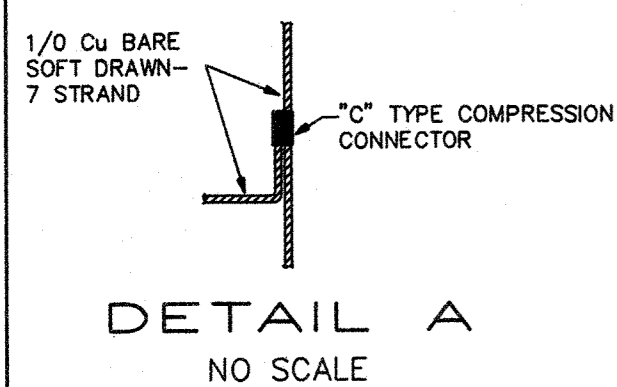
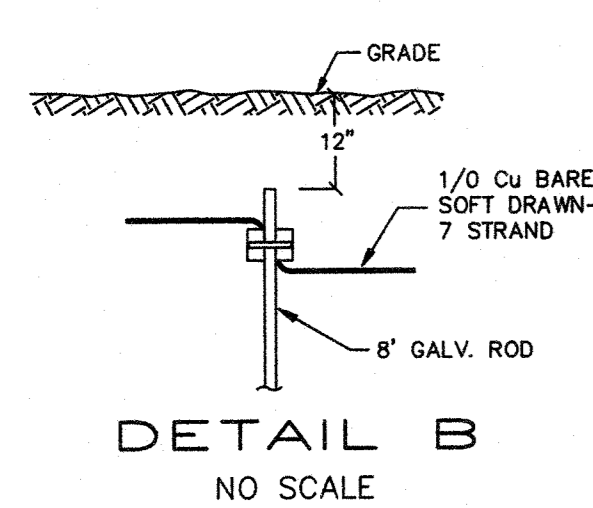
DWG. NO.  
**G-1**





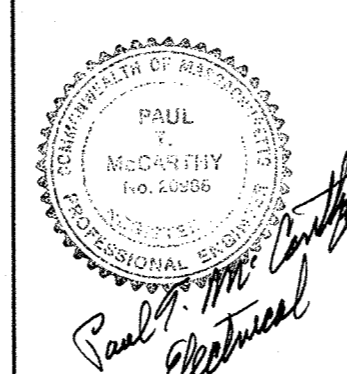


THREE PHASE PAD-MOUNTED TRANSFORMER PLAN  
1/2" = 1'



**HALEY AND WARD, INC.**  
25 FOX ROAD  
WALTHAM, MASSACHUSETTS 02154

REV.	DATE	BY
1	12/8/95	SAT
2	12/28/95	SAT
3	1/5/96	SAT
4	1/11/96	SAT
5	1/22/96	SAT
6	4/12/96	SAT



**KEY**

- T** TELEPHONE HAND HOLE - FOR TELEPHONE LINES & SPARES WITH PULL LINES
- U** UTILITY HAND HOLE - FOR ELECTRIC LINES
- P** PUMP HAND HOLE - PULL LINES IN EACH CONDUIT

**LEGEND**

**NOTES**

- ROUGH GRADE SITE TO LIMITS OF WORK FINISH GRADE BY OWNER.

TOWN OF AYER, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS

**SITE/GRADING PLAN  
ELECTRICAL**

**DWG. NO.**

**E-7**