SECTION 009113
ADDENDUM NUMBER 3

PARTICULARS

1.1 DATE: December 29, 2021

1.2 PROJECT: Orangetown Town Hall Addition and Alterations

1.3 Owner: Town of Orangetown

1.4 Architect: Lothrop Associates LLP Architects

TO: ALL HOLDERS OF BID DOCUMENTS:

2.1 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE OriginalBid DOCUMENTS DATED November 9, 2021, WITH AMENDMENTS AND ADDITIONS NOTED BELOW.

2.2 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE Bid Form. FAILURE TO DO SO Will DISQUALIFY THE BIDDER.

2.3 GENERAL:

A. Questions raised by RFI via email:
1. The "T" light fixture in Bath 201 - should it be an "R" light fixture? (Architect's RFI #4E.04)
a. **Yes.**

2. Are the "R" lights in rooms 311 and 312 supposed to be em? No other "R" fixtures are indicated as em. (Architect's RFI #4E.04)
a. **Yes. These type "R" fixtures are to be provided with remote mounted emergency battery packs.**

3. Should the "V" lights on E-222 be a "T" fixture? (Architect's RFI #4E.04)
a. **Yes. the lights in the stairwell indicated as type "V" are to be type "T".**

4. Note 2 on drawing E-216, top left exterior, looks to be a typo - is this correct? (Architect's RFI #4E.04)
a. **The keyed note number 2 indicated on E-216 outside of stair 1 does not apply to that drawing.**

5. Who supplies the gas solenoid valves? (Architect's RFI #4E.04)
a. **The gas solenoid valves are furnished and plumbed by the Plumbing Contractor. They are circuited by the Electrical Contractor.**

6. Does the building require speakers for fire alarm system? Looks to be horns and horn/strobes by spec. Please clarify. (Architect's RFI #4E.04)
   a. **The structure is a mixed use occupancy structure, with a primary occupancy of 'B' - Business. All 'A' - Assembly occupancy areas have an occupant load of less than 300, and therefore a voice-capable fire alarm system is not required.**

7. Who provides access control equipment; i.e. door strikes, mortise locks, etc.? (Architect's RFI #4E.04)
   a. **The door hardware is furnished and installed by the General Contractor. Access control devices for security (i.e. card readers) are furnished and installed by the Owner's security vendor. The Electrical Contractor is to provide all raceways and circuitry, including mounting and wiring door electrified door hardware.**

8. Drawing E-213, door 223 has no EH - ar3e we to assume this was missed? (Architect's RFI #4E.04)
   a. **Yes, add the EH symbol to door 223.**

9. There is no symbol with D inside square on power drawings E-208 by automatic doors. Are we assuming that's a pushbutton for automatic doors provided by door in installer?. (Architect's RFI #4E.04)
   a. **The symbol represented by a D in a center of a square is the symbol for a door operator switch. This switch is to be provided by the General Contractor, and wired by the Electrical Contractor.**

10. Security cameras - is the Electrical Contractor just pulling cable to location for Owners' vendor? (Architect's RFI #4E.04)
    a. **Cameras are to be furnished by the Owner. Installation and wiring is by the Electrical Contractor.**

11. Are the cameras to be pulled to local data closet? (Architect's RFI #4E.04)
    a. **Keyed note #10 in room "Admin 3, 118" on Drawing E-207 denotes the location of the access control/security systems. All camera, security, access control circuitry is to be brought to this location.**

12. On the E-001 drawings, the open triangle refers to 2 telephone an d 2 data recessed to data closet and dark or closed triangle to be same as open but to modular furniture. Are we adding boxes in furniture or does furniture have raceway and boxes as usually found in modular furniture? (Architect's RFI #4E.04)
    a. **The tele/data in the modular furniture will utilize raceways and back boxes that come with the furniture. Circuitry whips are to be provided.**

13. If you count the open and closed triangles on job, there are not enough patch panels per details. Are there multiples? (Architect's RFI #4E.04)
    a. **The documents do not specify any patch panels for the copper LAN. Only fiber patch panels are specified.**

14. Note C, drawing E-307, has us providing work area outlet patch cables and hookups to equipment. Usually we provide and end user installs as needed. Should we include installing at every hookup? (Architect's RFI #4E.04)
    a. **Note C is to be removed from the project. See revised drawing E-307, attached to this Addendum.**

15. The drawings don't have cable pulls for floor boxes. Please clarify. (Architect's RFI #4E.04)
    a. **Keyed note 9 on drawing E-207 specifies raceways and circuitry for floor box (for the entire project). This includes power, low voltage, etc.**

16. The electrical Cover Sheet and detail refer to cat 6 and cat6A - are we to assume cat 6A? (Architect's RFI #4E.04)
    a. **Cat 6A shall be provided.**

17. The drawings don't clarify single or multi mode fiber. Please clarify. (Architect's RFI #4E.04)
    a. **The fiber mode (single or multi) has not been determined by the Owner. Provide the more expensive option. The Owner reserves the right to select the mode after award without added cost to the Contract. Include all associated costs.**

18. Please clarify fiber detail on E-303. Pole to manhole shows Note 1 in circle for (2) 4" pipes and A in diamond says 1 1/4" inner duct. If you use that in conjunction with E-302 keyed Note 18 says pull fiber and Note 3 in circle. What is note 3 and what type of fiber? (Architect's RFI #4E.04)
    a. **Refer to revised drawings E-303 and E-307, attached to this Addendum.**

19. For the site drawings and service provider usually the terminations and wire for service provider to demark is done by service provider. We normally provide conduits only. Are we sure the site is correct? Also how many providers are there? We want to clarify we are doing work for the carrier overhead and terms on their equipment poles, per drawing E-302, notes 1 and 2. (Architect's RFI #4E.04)
    a. **The work involved requires work by the carriers (utility). These associated costs are to be included in the bid submission.**

20. Drawing E-302 note 3 in circle there is no reference. Also note 31 in octagon. (Architect's RFI #4E.04)
    a. **Change the square with the letter T , dashed line, note 31 and 33 to indicate the existing service transformer and secondary service to remain.**

21. There is only a ladder rack on the third floor data room. Do the rooms on the 1st and 2nd floors require a ladder rack? (Architect's RFI #4E.04)
    a. **The 1st and 2nd floor IT closets do not get overhead ladder racks.**

22. Who is responsible for utility overhead work for fiber and power? (Architect's RFI #4E.05)
    a. **The Electrical Contractor is responsible for the work indicated. If utility/provider involvement is required, include all associated fees/costs in the bid submission.**

23. Is site GC responsible for mark out of existing underground electrical or will that fall upon the electrician? (Architect's RFI #4E.05)
    a. **The Electrical Contractor will be responsible for mark out of existing underground electrical lines.**

24. Raceways on E-217 detail 2 and E-218 going into IT 305, are they the pipe runs tagged as (2) 4 inch rgs on detail 1 coming from room 305 going to roof? (Architect's RFI #4E.05)
    a. **Yes.**

25. Circuitry for access control door power supplies. It has it for automatic doors but not for doors for security E-305 1 and 2. (Architect's RFI #4E.05)
    a. **Electrical Contractor is to provide 120vAC power to every door(s) with access control as indicated by keyed note 11 on drawings E-305, details 1 and 2.**

26. Wiring methods - We want to clarify as per spec 260519.3.02 C that all wiring is in a raceway - this can add significant cost and want to clarify that mc is not accepted unless under 5 foot transitions. (Architect's RFI #4E.05)
    a. **MC cable is limited to the 5 foot transition as indicated.**

27. The Bid Submission references "3 copies" of the bid. Please specify how many originals and how many copies are required. (Architect's RFI #1G.07)
    a. **Provide one (1) original and two (2) copies of the Bid Submission.**

28. Will you be providing the AIA A305 and A310 forms to submit with the bid? If not, please indicate which version/year is acceptable. (Architect's RFI #1G.07)
    a. **Refer to Section 004000 - Procurement Forms and Supplements**
        1) **AIA A305 - 1986**
        2) **AIA A310 - 2010**

29. C-100 General Note 14: General Contractor shall procure and pay for all permits and licenses. At the Pre-Bid meeting, it was stated that no permit fees would be chargeable to the General Contractor. (Architect's RFI #1G.08)
    a. **See Addendum 1 - Refer to Section 003100 - Available Project Information, Part 3 - Execution.**

30. As discussed at Pre-bid meeting, all utility company charges for permanent and temporary services will not be chargeable to the General Contractor. Please confirm. (Architect's RFI #1G.08)
    a. **See Addendum 2 - Refer to Section 015000 - Temporary Facilities and Services.**

31. At the pre-bid, it was indicated that testing and inspections were by GC: However, concrete, steel and site specification sections say by the Owner. Please confirm that all testing and inspections are by the Owner. (Architect's RFI #1G.08)
    a. **See Addendum 1.**

32. See Drawing C-106. Please clarify Landscape Note 10, "Where shown sod to be used in all areas not subject to planting". However, Note 9 refers to seeding and mulching. We do not see any locations where sod is specified. Please clarify if sod is required in shaded gray areas.
    a. **No sod locations are specified on plans. All areas not subject to planting shall follow Section 32900 - Turf and Grasses.**

33. All 3rd party testing and inspection is to be performed by a testing agency engaged and paid for by the Owner as per the separate specification section and "Special Inspection" Note 1 on Drawing S-002. At the pre-bid meeting, it was indicated that testing and inspection was by the GC and each individual prime. Please confirm that all 3rd Party Testing and Inspection Services will be paid for by Owner as per the contract documents. (Architect's RFI #1G.08)
    a. **See Addendum 1.**

34. Specification Section 000102-2 Paragraph 1.5.J indicates 540 calendar days for the project duration for base bid work. Paragraph 1.5.K indicates contract time to be 660 calendar days for "Base Bid plus Alternate Work". Is the calendar day duration 660 days even if only 1 of the 7 alternates is accepted or do all 7 alternates need to be accepted to increase the project duration from 540 calendar days to 660 calendar days. Why is the additional 120 days required regardless of what alternates are accepted? (Architect's RFI #1G.08)
    a. **The 660 calendar day timeframe assumes all of the alternates are accepted.**

35. Page 000103 indicates Kone Elevator, Inc. as your vertical transportation consultant. Specification Section 142100 lists Kone Elevator as the Basis of Design with no equal listed. Please advise if Kone Elevator will be the only manufacturer permitted on this project or are other manufacturers permitted? (Architect's RFI #1G.08)
    a. **See Addendum 1, Section 000103 - Kone Elevator has been removed as the Elevator Consultant. See also specification Section 142100-5, Part 2.1 A. 2. Other manufacturers for machine room-less elevator products shall be considered, provided the manufacturer has a minimum of 15 years experience in manufacturing, installing, and servicing elevators of the type required for this project AND proposed substitutions are made in accordance with all of the requirements for substitution procedures identified in Section 012500. Proposed substitutions for elevator manufacturers must not result in a significant change in the elevator shaft size, either internal or external dimensions, as designed. For the purposes of this discussion only, a significant change in size is defined as any dimensional change greater than 2 inches in any direction.**

36. Is the demolition of the original 1959 Town Hall described to be performed within 6 months of the substantial completion of the addition included in the 540 or 660 days referenced for the project duration or is the 6 months in addition to the 540 or 660 days? (Architect's RFI #1G.08)
    a. **It is the Owner's intent to demolish the original 1959 Town Hall building within 6 months after the Substantial Completion of the new addition. The Base Bid work must be completed within the 540 calendar days allotted.**

37. Spec page 011000-3 paragraph 1.10.A.3 indicates the General Contractor is to install the "meters." Please clarify this. (Architect's RFI #1G.08)
    a. **See Addendum 2, revised Section 011000 - Summary and Section 015000 - Temporary Facilities and Services.**

38. At the pre-bid meeting, it was clearly state that temporary electric and water could be used from the Owner's existing service without metering or costs to the General Contractor. Paragraph 1.10.A.4 indicates "Payment of costs of temporary utilities and services consumed". Please clarify. (Architect's RFI #1G.08)
    a. **See Addendum 2, revised Section 015000 - Temporary Facilities and Services.**

39. Paragraph 1.5.B, page 012100, references "inspection and testing allowance". Where is this allowance listed? Please advise. (Architect's RFI #1G.08)
    a. **See Addendum 1, revised Section 012100**

40. Specifications 013329.05 and 013566.05 reference LEED Requirements. Specification 0133329.05 indicates that this project is a "LEED Equivalent" project and that LEED documentation will only be needed upon request. Please advise if this project is truly a LEED project and if so, is a LEED consultant required and what LEED rating is being achieved. (Architect's RFI #1G.08)
    a. **As indicated in the specification sections noted, specifically Section 013329.02 Part 1.1 A, this project is a "LEED Equivalent" project. As such, all LEED practices, procedures, and products are to be followed and used. The project is to be considered a "non-reported/non-registered" LEED project, conforming to the minimum requirements of a LEED Certified project, with a LEED points total between 40 and 49. Where Sustainable Design documentation is required to be submitted in individual technical sections, such documentation shall be collected and submitted for record.**

41. The scope of work for each prime contract needs further clarification: Is site sanitary and water piping to be installed by the plumbing contractor? (Architect's RFI #1G.08)
    a. **The General Contractor is responsible for the installation of site sanitary and water piping. The Plumbing Contractor is responsible for plumbing inside the building and to a distance five feet beyond the outside of the building. The Plumbing Contractor is also responsible for plumbing work within the Hotboxes for the RPZ and DCV systems.**

42. Who is responsible for site trenching, General Contractor or MEP contractors? (Architect's RFI #1G.08)
    a. **The General Contractor is responsible for all site trenching and digging required by other prime contractors' work. See Addendum 2, Section 011200 - Multiple Contract Summary for additional information.**

43. Who is responsible for cutting and patching, the General Contractor or individual prime contractors? (Architect's RFI #1G.08)
    a. **Refer to Section 017000 - Execution and Closeout Requirements, Part 3.7. Each prime contractor shall be responsible for his own rough cutting and patching required for his/her work. The General Contractor shall be responsible for all finish patching.**

44. Please advise as to who is responsible for testing/inspection/monitoring of the asbestos removal. (Architect's RFI #1G.08)
    a. **The General Contractor is responsible for the testing, inspection, and monitoring for the asbestos removal. Refer to Section 028213.**

45. Please clarify the responsibility for the gas piping work on site. (Architect's RFI #1G.08)
    a. **The Plumbing Contractor is responsible for the installation of gas piping on site. See revised drawing P-206, attached to this Addendum.**

46. Drawing C-106 references irrigation in planting areas. Is irrigation a design/build to be provided by the General Contractor, Plumbing Contractor, or the Owner? (Architect's RFI #1G.08)
    a. **See Section 328000 - Landscape Irrigation**

47. Who is responsible for maintaining trenches provided by the General Contractor, but required for each MEP trade? (Architect's RFI #1G.08)
    a. **The General Contractor shall be responsible for maintaining site trenches including dewatering, compaction, bedding, and backfill. The MEP trade shall be responsible for laying the pipe, conduit, etc. unless otherwise provided for by the General Contractor. See Addendum 2, Section 011200 - Multiple Contract Summary for additional information.**

48. Please confirm Owner is responsible for Alternate No. 4 - New Conference Tables since all other FF& E is being furnished and installed by Owner. If so, why is it listed as an alternate? (Architect's RFI #1G.08)
    a. **The General Contractor is responsible for providing new conference tables identified as Alternate No. 4. Additionally, furniture and equipment identified on the Furniture and Equipment Tag Legend on Drawing A001 is part of the base bid work for the General Contractor. Refer to Notes following the legend on drawing A001.**

49. The specifications indicated model number Inpro #900SSO for handrails, however, Inpro does not make rails for stairs, only for corridor applications. Please advise if Julius Blum model #6502SS can be substituted for these handrails. (Architect's RFI #1G.08)
    a. **See revised specification section 055100 - Metal Stairs, attached to this Addendum.**

50. Please verify that TecCrete can be an approved alternate. Attached you will find our comparison matrix, specification, and cut sheet for reference. (Architect's RFI #1G.08)
    a. **See revised specification section 096900 - Access Flooring, attached to this Addendum.**

51. Specifications include (2) types of acoustical ceilings but the drawings do not include any ceiling type tags. Please provide exact locations for each ceiling type.
    a. **All acoustical tile ceilings and grids are non-fire resistance rated type <u>except</u> for Storage Room 058 on the Basement Level (between Auxillary 057 and existing Stair 3). Room 058 shall be provided with the fire-resistance rated acoustical ceiling.**

52. Please confirm existing acoustical ceiling system in Fitness Room 019 on Drawing A120(D) is to remain and that only a new gypsum soffit is required. (Architect's RFI #1G.08)
    a. **This is correct. The existing acoustical tile ceiling system in Fitness Room 019 is to remain and be modified as necessary to accommodate the new gypsum board soffit.**

53. Alternate No. C-1 calls for "Mill and Overlay Police Department Parking Areas as indicated on drawing C-101" in lieu of base bid which includes crack seal and overall sealing of parking lot. Further investigation reveals extremely poor existing conditions that are beyond repairable. Please revise base bid scope of work for an approach that will be effective as the specified base bid will not achieve the desired outcome the Owner is seeking. (Architect's RFI #1G.08)
    a. **Add the following Base Bid note to Drawing C-101 at the Police Department Parking Lot to read:**
       <u>"BASE BID:</u> REMOVE 1,060 SY OF EXISTING PAVEMENT AND REPLACE WITH 290 SY LIGHT DUTY HOT MIX ASPHALT ITEMS AND 770 SY HEAVY DUTY HOT MIX

ASPHALT ITEMS (INSTALL BOTH OVER EXISTING SUBBASE, SEE DETAIL 5/C-201 FOR MATERIAL THICKNESSES), LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. REMOVE 745 SY OF EXISTING SUBBASE TO A DEPTH OF 1 FOOT AND REPLACE WITH ITEM 304.12, TYPE 2, LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. ENSURE POSITIVE DRAINAGE TO ADJACENT CATCH BASINS FOLLOWING EXISTING DRAINAGE PATTERNS. FIELD ADJUST AS NECESSARY. CRACK SEAL AND SEAL COAT THE BALANCE OF THE POLICE DEPARTMENT PARKING LOT AREA. RESTRIPE ENTIRE LOT."

b. **Current <u>ADD ALTERNATE C-1</u> note on Drawing C-101:**
"1-1/2" MILL AND OVERLAY POLICE DEPARTMENT PARKING LOT" **is changed to read: "DELETE REMOVAL AND REPLACEMENT OF 1,060 SY OF EXISTING PAVEMENT AND CRACK SEAL AND SEAL COAT OF THE BALANCE OF POLICE DEPARTMENT PARKING LOT AREA AND PROVIDE REMOVAL AND REPLACEMENT OF ALL EXISTING PAVEMENT IN THE POLICE DEPARTMENT PARKING LOT AREA. REMOVE AND REPLACE 745 SY OF EXISTING SUBBASE TO A DEPTH OF 1 FOOT AFTER EXISTING PAVEMENT IS REMOVED, LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. ENSURE POSITIVE DRAINAGE TO ADJACENT CATCH BASINS FOLLOWING EXISTING DRAINAGE PATTERNS. FIELD ADJUST AS NECESSARY. RESTRIPE ENTIRE LOT."**

c. **Current <u>BASE BID</u> note on Drawing C-102:**
"APPLY CRACK SEALANT TO ALL CRACKS AND UNIFORM SEAL COAT ON EXISTING PAVEMENT NOT BEING REPLACED OR MILLED AND OVERLAYED. RESTRIPE ALL EXISTING." **is changed to read: "REMOVE 1,060 SY OF EXISTING PAVEMENT AND REPLACE WITH 290 SY LIGHT DUTY HOT MIX ASPHALT ITEMS AND 770 SY HEAVY DUTY HOT MIX ASPHALT ITEMS, (INSTALL BOTH OVER EXISTING SUBBASE, SEE DETAIL 5/C-201 FOR MATERIAL THICKNESSES), LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. REMOVE 745 SY OF EXISTING SUBBASE TO A DEPTH OF 1 FOOT AND REPLACE WITH ITEM 304.12, TYPE 2, LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. ENSURE POSITIVE DRAINAGE TO ADJACENT CATCH BASINS FOLLOWING EXISTING DRAINAGE PATTERNS. FIELD ADJUST AS NECESSARY. CRACK SEAL AND SEAL COAT THE BALANCE OF THE POLICE DEPARTMENT PARKING LOT AREA. RESTRIPE ENTIRE LOT."**

d. **Current <u>ADD ALTERNATE C-1</u> note on Drawing C-102:**
"DELETE CRACK SEAL AND SEAL COAT AND PROVIDE 1-1/2" MILL AND OVERLAY IN POLICE DEPARTMENT PARKING LOT. RESTRIPE." **is changed to read: "DELETE REMOVAL AND REPLACEMENT OF 1,060 SY OF EXISTING PAVEMENT AND CRACK SEAL AND SEAL COAT OF THE BALANCE OF POLICE DEPARTMENT PARKING LOT AREA AND PROVIDE**

REMOVAL AND REPLACEMENT OF ALL EXISTING PAVEMENT IN THE POLICE DEPARTMENT PARKING LOT AREA. REMOVE AND REPLACE 745 SY OF EXISTING SUBBASE TO A DEPTH OF 1 FOOT AFTER EXISTING PAVEMENT IS REMOVED, LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. ENSURE POSITIVE DRAINAGE TO ADJACENT CATCH BASINS FOLLOWING EXISTING DRAINAGE PATTERNS. FIELD ADJUST AS NECESSARY. RESTRIPE ENTIRE LOT."

e. **Current <u>BASE BID</u> note on Drawing C-107:**

"PROVIDE CRACK SEALANT, SEAL COATING AND RESTRIPE IN POLICE DEPARTMENT PARKING LOT AFTER INSTALLATION OF ALL UTILITIES, TRENCH RESTORATION, AND PAVEMENT RESTORATION IN AREA OF ROADWAY OBSTRUCTING ACCESS FROM POLICE DEPARTMENT PARKING TO DUTCH HILL ROAD AND TWO-WAY ACCESS AND TEMPORARY PARKING FOR POLICE VEHICLES CAN BE PROVIDED." **is changed to read: "AFTER INSTALLATION OF ALL UTILITIES, TRENCH RESTORATION, AND PAVEMENT RESTORATION IN AREA OF ROADWAY OBSTRUCTING ACCESS FROM POLICE DEPARTMENT PARKING TO DUTCH HILL ROAD, REMOVE 1,060 SY OF EXISTING PAVEMENT AND REPLACE WITH 290 SY LIGHT DUTY HOT MIX ASPHALT ITEMS AND 770 SY HEAVY DUTY HOT MIX ASPHALT ITEMS (INSTALL BOTH OVER EXISTING SUBBASE, SEE DETAIL 5/C-201 FOR MATERIAL THICKNESSES), LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. REMOVE 745 SY OF EXISTING SUBBASE TO A DEPTH OF 1 FOOT AND REPLACE WITH ITEM 304.12, TYPE 2, LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. ENSURE POSITIVE DRAINAGE TO ADJACENT CATCH BASINS FOLLOWING EXISTING DRAINAGE PATTERNS. FIELD ADJUST AS NECESSARY. CRACK SEAL AND SEAL COAT THE BALANCE OF THE POLICE DEPARTMENT PARKING LOT AREA. RESTRIPE ENTIRE LOT."**

f. **Current <u>ADD ALTERNATE C-1</u> note on Drawing C-107:**

"1-1/2" MILL AND OVERLAY POLICE DEPARTMENT PARKING LOT" **is changed to read:"DELETE REMOVAL AND REPLACEMENT OF 1,060 SY OF EXISTING PAVEMENT AND CRACK SEAL AND SEAL COAT OF THE BALANCE OF POLICE DEPARTMENT PARKING LOT AREA AND PROVIDE REMOVAL AND REPLACEMENT OF ALL EXISTING PAVEMENT IN THE POLICE DEPARTMENT PARKING LOT AREA. REMOVE AND REPLACE 745 SY OF EXISTING SUBBASE TO A DEPTH OF 1 FOOT AFTER EXISTING PAVEMENT IS REMOVED, LOCATIONS TO BE DIRECTED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION. ENSURE POSITIVE DRAINAGE TO ADJACENT CATCH BASINS FOLLOWING EXISTING DRAINAGE PATTERNS. FIELD ADJUST AS NECESSARY. RESTRIPE ENTIRE LOT."**

54. The generator pad on site drawings C-102 scales to 40'-0" x 10'-0"; however, the detail on drawings A-800 indicates the pad is +/- 18'-0" x 12'-0". Please confirm the generator pad is to follow the details on Drawing A-800. (Architect's RFI #1G.08)
    a. **For bidding purposes, refer to Drawing 1/E-306 for generator pad nominal dimensions required for the Basis of Design generator. The dimensions on Drawing A-800 have been revised to refer to Drawing 1/E306 for dimensions. See revised drawing A-800, attached to this Addendum.**

55. What is the extent of responsibility for the plumbing contract with respect to the foundation drain?
    a. **The Plumbing Contract includes the piping for the foundation drains as shown on Drawing P-206.**

56. What type of piping is to be used for the foundation piping?
    a. **See Specification Section 221416 Paragraph 2.6 C for pipe specification.**

2.4 This Addendum consists of 12 PAGES.

CHANGES TO THE PROJECT MANUAL - INTRODUCTORY REQUIREMENTS, PROCUREMENT REQUIREMENTS AND CONTRACTING REQUIREMENTS:

3.1 SECTION 000102 - PROJECT INFORMATION

A. Part 1.5 PROCUREMENT TIMETABLE, Paragraph K
Remove paragraph in its' entirety and replace with the following:
Substantial completion Date for Accepted Alternate Work: Work can proceed any time after the notice to proceed is issued for the project. Alternate work is not to exceed 120 calendar days after the Substantial Completion Date of the base bid project.

3.2 SECTION 009113 - Addendum 3

A. Add: **Section 009113 - Addendum 3**.

CHANGES TO THE PROJECT MANUAL - TECHNICAL SPECIFICATIONS:

4.1 SECTION 055100 - METAL STAIRS

A. **Remove and replace with revised Section 055100 attached to this Addendum.**

4.2 SECTION 096900 - ACCESS FLOORING

A. **Remove and replace with revised Section 096900 attached to this Addendum.**

4.3 SECTION 221123 - GAS PIPING

A. **Add the following paragraph 2.8 to specification:**

2.8 Fuel Gas Piping, Underground

A. Pipe: Polyethylene
B. Joints: Provide Polyethylene, fusion type joints
C. Locator Tape: Provide locater tape for the underground gas piping located per Orange and Rockland Utilities.

4.4 SECTION 262816 - DISCONNECT SWITCHES AND INDIVIDUAL CIRCUIT BREAKERS

A. **Add new Section 262816, attached to this Addendum.**

CHANGES TO DRAWINGS:

5.1 DRAWING A800 - MISCELLANEOUS SITE DETAILS

A. **Remove and replace with revised drawing attached to this Addendum.**

5.2 DRAWING E-211 - ELECTRICAL LEVEL 01 PLAN (FIRE ALARM)

A. **Remove and replace with revised drawing attached to this Addendum.**

5.3 DRAWING E-217 - ELECTRICAL LEVEL 03 PLAN (POWER)

A. **Remove and replace with revised drawing attached to this Addendum.**

5.4 DRAWING E-219 - ELECTRICAL LEVEL 03 PLAN (LIGHTING)

A. **Remove and replace with revised drawing attached to this Addendum.**

5.5 DRAWING E-302 - ELECTRICAL PART ONE-LINE POWER DIAGRAM, OUTDOOR PLANT FIBER OPTIC DIAGRAM AND KEYED NOTES

A. **Remove and replace with revised drawing attached to this Addendum.**

5.6 DRAWING E-303 - IT/COMMUNICATIONS RISER DIAGRAM

A. **Remove and replace with revised drawing attached to this Addendum.**

5.7 DRAWING E-307 - IT/DATA SPECIFICATIONS AND DETAILS

A. **Remove and replace with revised drawing attached to this Addendum.**

5.8 DRAWING P-206 - SITE PLAN, BACKFLOW PIPING AND NOTES

A. **Remove and replace with revised drawing attached to this Addendum.**

5.9 DRAWING C-107 - SEQUENCING PLAN

A. **Add note to Sequence 1: For estimating purposes, provide for 1500 linear feet of temporary construction fencing. Exact configuration and location to be determined. Refer to detail on drawing A800.**

END OF SECTION

SECTION 055100
METAL STAIRS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Stairs with concrete treads.

B. Structural steel stair framing and supports.

C. Handrails and guards, including gates with hardware where indicated. Gate shall be equipped with self-closing hinges and latch.

1.2 RELATED REQUIREMENTS

A. Section 042000 - Unit Masonry: Placement of metal fabrications in masonry.

1.3 REFERENCE STANDARDS

A. AISC 201 - AISC Certification Program for Structural Steel Fabricators, Standard for Steel Building Structures 2006.

B. ASTM A36/A36M - Standard Specification for Carbon Structural Steel 2019.

C. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless 2020.

D. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2016a.

E. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes 2021.

F. ASTM A501/A501M - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing 2014.

G. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable 2020.

H. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength 2018a.

I. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength 2019, with Editorial Revision (2020).

J. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination 2012.

K. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification 2014 (Amended 2015).

L. AWS D1.1/D1.1M - Structural Welding Code - Steel 2020.

M. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer 1999 (Ed. 2004).

N. SSPC-SP 2 - Hand Tool Cleaning 2018.

1.4 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories.
   1. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
   2. Include the design engineer's seal and signature on each sheet of shop drawings.

C. Design Data: As required by authorities having jurisdiction.

D. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated no more than 12 months before start of scheduled welding work.

E. Designer's Qualification Statement.

F. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is certified under AISC 201.

1.5 QUALITY ASSURANCE

A. Structural Designer Qualifications: Professional Structural Engineer experienced in design of this work and licensed in the State in which the Project is located, or personnel under direct supervision of such an engineer.

B. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS D1.1/D1.1M and dated no more than 12 months before start of scheduled welding work.

C. Fabricator Qualifications:
   1. A qualified steel fabricator that is certified by the American Institute for Steel Construction (AISC) under AISC 201.
   2. A company specializing in manufacturing products specified in this section, with not less than ten years of documented experience.

PART 2 PRODUCTS

2.1 METAL STAIRS - GENERAL

A. Metal Stairs: Provide stairs of the design specified, complete with landing platforms, vertical and horizontal supports, railings, and guards, fabricated accurately for anchorage to each other and to building structure.
   1. Regulatory Requirements: Provide stairs and railings that comply with most stringent requirements of local, state, and federal regulations; where requirements of Contract Documents exceed those of regulations, comply with Contract Documents.
   2. Structural Design: Provide complete stair and railing assemblies that comply with the applicable local code.
   3. At exit stairwells, provide unit stair towers designed for stacking to height of building as a self-supporting structure.

4. Dimensions: As indicated on drawings.
5. Shop assemble components; disassemble into largest practical sections suitable for transport and access to site.
6. No sharp or rough areas on exposed travel surfaces and surfaces accessible to touch.
7. Separate dissimilar metals using paint or permanent tape.

B. Metal Jointing and Finish Quality Levels:
1. Architectural: All joints as inconspicuous as possible, whether welded or mechanical.
a. Welded Joints: Continuously welded and ground smooth and flush.
b. Mechanical Joints: Butted tight, flush, and hairline; concealed fastenings only.
c. Exposed Edges and Corners: Eased to small uniform radius.
d. Metal Surfaces to be Painted: Sanded or ground smooth, suitable for highest quality gloss finish.

C. Fasteners: Same material or compatible with materials being fastened; type consistent with design and specified quality level.

D. Anchors and Related Components: Same material and finish as item to be anchored, except where specifically indicated otherwise; provide all anchors and fasteners required.

2.2 METAL STAIRS WITH CONCRETE TREADS

A. Jointing and Finish Quality Level: Architectural, as defined above.

B. Risers: Closed.

C. Treads: Metal pan with field-installed concrete fill.
1. Concrete Depth: 1-1/2 inches, minimum.
2. Tread Pan Material: Steel sheet.
3. Tread Pan Thickness: As required by design; 14 gauge, 0.075 inch minimum.
4. Pan Anchorage to Stringers: Welded or bolted to carrier angles welded or bolted to stringers.
5. Concrete Reinforcement: Welded wire mesh.
6. Concrete Finish: For resilient floor covering.

D. Risers: Same material and thickness as tread pans.
1. Riser/Nosing Profile: Sloped riser with rounded nosing of minimum radius.
2. Nosing Depth: Not more than 1-1/2 inch overhang.
3. Nosing Return: Flush with top of concrete fill, not more than 1/2 inch wide.

E. Stringers: Rolled steel channels.
1. Stringer Depth: 10 inches.
2. End Closure: Sheet steel of same thickness as risers welded across ends.

F. Landings: Similar construction, using corrugated steel decking, supported and reinforced as required to achieve design load capacity.

G. Railings: Steel pipe guardrails with metal mesh panel insert. Handrail as specified.

H. Finish: Shop- or factory-prime painted.

I. Under Side of Stair: Exposed to view, to be finished same as specified for other exposed to view surfaces.

2.3 HANDRAILS AND GUARDS

A. Wall-Mounted Hand Rails: Molded handrail unless otherwise indicated.
1. Size and shape: 2.25 inch overall width x 0.875 inch high, eliptical

2. Material and finish: Stainless Steel, Type 304, #4 Satin Brushed Finish.
3. Equal to Julius Blum #6502SS Stainless Steel Handrail System, with stainless steel brackets.

B. Guards:
1. Top Rails: Round pipe or tube rails unless otherwise indicated.
   a. Outside Diameter: 1-1/4 inch, minimum, to 1-1/2 inches, maximum.
2. Infill at Mesh Railings: Woven wire mesh panels.
   a. Material and Finish: Stainless steel.
   b. Equal to Wagner Architectural Mesh Infill Panel; BWSJD-02 with the following characteristics:
      1) Open area: 80.3%
      2) Weight: 2.18 lbs/sq. ft
      3) Opening limitation: 2.690 inches
      4) Overall thickness: 0.620 inches
      5) Aspect ratio: 1.00:1
   c. Mounting: Mesh welded to steel bar frame, frame welded to posts.
3. End and Intermediate Posts: Same material and size as top rails.
   a. Horizontal Spacing: Maximum six feet on center.
   b. Mounting: Welded to top surface of stringer.

2.4 MATERIALS

A. Steel Sections: ASTM A36/A36M.

B. Steel Tubing: ASTM A500/A500M or ASTM A501/A501M structural tubing, round and shapes as indicated.

C. Pipe: ASTM A53/A53M Grade B Schedule 40, black finish.

D. Ungalvanized Steel Sheet: Hot- or cold-rolled, except use cold-rolled where finished work will be exposed to view.
1. Hot-Rolled Steel Sheet: ASTM A1011/A1011M, Designation CS (commercial steel).
2. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Designation CS (commercial steel).

E. Concrete Fill: Portland cement Type I, 3000 psi 28 day strength, 2 to 3 inch slump.

F. Concrete Reinforcement: Mesh type, galvanized.

2.5 ACCESSORIES

A. Steel Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, and galvanized to ASTM A153/A153M where connecting galvanized components.

B. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

C. Shop and Touch-Up Primer: SSPC-Paint 15, and comply with VOC limitations of authorities having jurisdiction.

2.6 SHOP FINISHING

A. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.

B. Do not prime surfaces in direct contact with concrete or where field welding is required.

C. Prime Painting: Use specified shop- and touch-up primer.

1. Preparation of Steel: In accordance with SSPC-SP 2 Hand Tool Cleaning.
2. Number of Coats: One.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.

3.2 PREPARATION

A. When field welding is required, clean and strip primed steel items to bare metal.

B. Supply items required to be embedded in masonry with setting templates.

3.3 INSTALLATION

A. Install components plumb and level, accurately fitted, free from distortion or defects.

B. Provide anchors, plates, angles, hangers, and struts required for connecting stairs to structure.

C. Allow for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.

D. Provide welded field joints where specifically indicated on drawings. Perform field welding in accordance with AWS D1.1/D1.1M.

E. Other field joints may be either welded or bolted provided the result complies with the limitations specified for jointing quality levels.

F. Obtain approval prior to site cutting or creating adjustments not scheduled.

G. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaces to be in contact with concrete.

END OF SECTION

SECTION 096900
ACCESS FLOORING

PART 1 - GENERAL

1.1 Section Includes

A. Work of this section includes, but is not limited to: access floor panels, floor coverings, understructure and various electrical, data and communication accessories.

1.2 Related Sections

A. Concrete sealer shall be compatible with pedestal adhesive, see Division 3.

B. See Division 26 Section “Grounding and Bonding for Electrical Systems” for connection to ground of access flooring understructure. Note: The electrical engineer or contractor shall determine requirements for grounding and the electrical contractor shall provide the necessary labor and materials to electrically connect the access flooring to the building ground if it is required.

1.3 Environmental Conditions for Storage and Installation

A. Area to receive and store access floor materials shall be enclosed and maintained at ambient temperatures between 35□ to 95□ F and relative humidity levels between 20% to 80%. All floor panels shall be stored at ambient temperature between 50□ to 90□ F for at least 24 hours before installation begins. All areas of installation shall be enclosed and maintained at ambient temperature between 50□ to 90□ F and at relative humidity levels between 20% to 80% and shall remain within these environmental limits throughout occupancy.

1.4 References

A. CISCA (Ceilings & Interior Systems Construction Association) - “Recommended Test Procedures for Access Floors” shall be used as a guideline when presenting load performance product information.

1.5 Performance Certification

A. Product tests shall be witnessed and certified by independent engineering and testing laboratory based in the U.S. with a minimum of five years experience testing access floor components in accordance CISCA “Recommended Test Procedures for Access Floors”.

1.6 Country-of-Origin and Product Marking

A. Access floor materials shall comply with the provisions outlined in FAR Subpart 25.2 – Buy American Act – Construction Materials.

B. Floor panels shall be permanently marked with manufacturer’s name, product identification, manufacturing date and country-of-origin. Removable Product ID stickers are not acceptable.

1.7 Performance Requirements

A. Design Load: Panel supported on actual understructure system shall be capable of supporting a point load of 1000 lbs. applied on a one square inch area at any location on the panel without experiencing permanent set in excess of 0.010 inches as defined by CISCA. The loading method used to determine design (allowable) load shall be in conformance with CISCA Concentrated Load test method but with panel tested on actual understructure instead of steel blocks.

B. Safety Factor: Panel supported on actual understructure system shall withstand a point load of no less than (2) two times its design load rating on a one square inch area anywhere on the panel without failure when tested in accordance with CISCA A/F, Section 2, "Ultimate Loading". Failure is defined as the point at which the system will no longer accept the load.

C. Ultimate Load: Panel supported on actual understructure system shall be capable of supporting a point load of at least 2000 lbs. applied through a load indenter on a one square inch area at any location on the panel without failure (i.e. minimum safety factor if 2) when tested in accordance with CISCA A/F, Section 2, "Ultimate Loading".

D. Rolling Load: Panel supported on actual understructure system shall be able to withstand the following rolling loads at any location on the panel without developing a local and overall surface deformation greater than 0.040 inches when tested in accordance with CISCA A/F Section 3, "Rolling Loads". Note: wheel 1 and wheel 2 tests shall be performed on two separate panels.
1. Size: 3" dia x 1 13/16" wide Load: 800 lbs. Passes: 10
2. Size: (A) 6" dia x 2" wide Load: 600 lbs. Passes: 10,000

E. Impact Load: Panel and supporting understructure (the system) shall be capable of supporting an impact load of 150 lbs. dropped from a height of 36 inches onto a one square inch area (using a round or square indentor) at any location on the panel when tested in accordance with CISCA A/F, Section 8, "Drop Impact Load Test".

F. Panel Drop Test: Panel shall be capable of being dropped face up onto to a concrete slab from a height of 36", after which it shall continue to meet all load performance requirements as previously defined.

G. Panel Cutout: Panel with an 8" diameter interior cutout supported on actual understructure shall be capable of maintaining its design load strength with a minimum safety factor of 2 anywhere on the panel without the use of additional supports.

H. Flammability: System shall meet Class A Flame spread requirements for flame spread and smoke development. Tests shall be performed in accordance with ASTM-E84-1998, Standard Test Method for Surface Burning Characteristics for Building Materials.

I. Combustibility: All components of the access floor system shall qualify as non-combustible by demonstrating compliance with requirements of ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 deg C.

J. Recycled Content: Panel and understructure system shall be required to have a minimum post-consumer recycled content of 18% and a minimum total recycled content of 49%.

K. Axial Load: Pedestal support assembly shall provide a 6000 lb. axial load without permanent deformation when tested in accordance with CISCA A/F, Section 5, "Pedestal Axial Load Test".

L. Overturning Moment: Pedestal support assembly shall provide an average overturning moment of 1000 in-lbs. when glued to a clean, sound, uncoated concrete surface when tested in accordance with CISCA A/F, Section 6, "Pedestal Overturning Moment Test".

M. Stringer Concentrated Load: Stringer shall be capable of withstanding a concentrated load of 450 lbs. placed in its midspan on a one square inch area using a round or square indentor without exceeding a permanent set of 0.010" after the load is removed when tested in accordance with CISCA A/F, Section 4, "Stringer Load Testing".

1.8 Design Requirements:

A. Access floor system, where indicated on the design documents, shall consist of modular and removable fully encased cementitious filled welded steel panels supported on all four edges by structural steel members which are designed to bolt onto adjustable height pedestal assemblies forming a modular grid pattern.

B. Panel shall be easily removed by one person with a suction cup lifting device and shall be interchangeable except where cut for special conditions.

C. Quantities, finished floor heights (FFH) and location of accessories shall be as specified on the contract drawings.

1.9 Submittals for Review

A. Detail sheets, for each proposed product type, which provide the necessary information to describe the product and its performance.

B. Floor finish samples for verification of selected floor finish to be factory applied.

C. Test reports, certified by an independent testing laboratory with a minimum of five years experience testing access floor components in accordance with CISCA Recommended Test Procedures, certifying that component parts perform as specified.

1.10 Submittals for Information

A. Manufacturer's installation instructions and guidelines.

B. Manufacturer's Owner Manual outlining recommended care and maintenance procedures.

PART 2 - PRODUCTS

2.1 Manufacturers

A. Tate Access Floors, Inc. and shall consist of ConCore CCN 1000 access floor panel supported by a bolted stringer understructure system or an approved equal.

B. Global IFS; TecCrete-1250; www.globalifs.com or an approved equal.

C. Alternative products shall meet or exceed all requirements as indicated herein and must receive prior written approval by the architect or designer.

D. Access floor manufacture shall be ISO9001: 2000 certified demonstrating it has a robust and well documented quality management system with continuous improvement goals and strategies.

E. Access floor manufacturer's facilities shall be ISO14001:2004 certified demonstrating that they maintain an environmental management system.

F. Access floor manufacturer's facilities shall be OHSAS 18001:2007 certified demonstrating that they maintain an Occupational Health and Safety Management system.

2.2 Support Components

A. Pedestals:
1. Pedestal assemblies shall be corrosive resistant, all steel welded construction, and shall provide an adjustment range of +/- 1" for finished floor heights 6" or greater. Zinc electroplating shall be prohibited on all pedestal components, including head plate, threaded rod, adjustment nut, pedestal tube, base plate, and all fasteners.
2. Pedestal assemblies shall provide a means of leveling and locking the assembly at a selected height, which requires deliberate action to change height setting and prevents vibration displacement.
3. Hot dip galvanized steel pedestal head shall be welded to a threaded rod which includes a specially designed adjusting nut. The nut shall provide location lugs to engage the pedestal base assembly, such that deliberate action is required to change the height setting.
4. Threaded rod shall provide a specially designed anti-rotation device, such that when the head assembly is engaged in the base assembly, the head cannot freely rotate (for FFH of 7" or greater and Types 1A, 2B and 3B square tube bases only). Note: This prevents the assembly from inadvertently losing its leveling adjustment when panels are removed from the installation during use.
5. Hot dip galvanized pedestal base assembly shall consist of a formed steel plate with no less than 16 inches of bearing area, welded to a 7/8" square steel tube and shall be designed to engage the head assembly.

B. Stringers:
1. Stringers shall support each edge of panel.
2. Steel stringer shall have conductive galvannealed coating. Zinc electroplating shall be prohibited on stringers and stringer fasteners.
3. Stringers shall be individually and rigidly fastened to the pedestal with one machine screw for each foot of stringer length. Bolts shall provide positive electrical contact between the stringers and pedestals. Connections depending on gravity or spring action are unacceptable.
4. Stringer grid shall be 2 foot x 2 foot grid configuration ensuring maximum lateral stability in all directions.

2.3 Panel Components

A. Floor Panels:
1. Panels shall consist of a top steel sheet welded to a formed steel bottom pan filled internally with a lightweight cementitious material. Mechanical or adhesive methods for attachment of the steel top and bottom sheets are unacceptable.
2. Floor panels shall be protected from corrosion by electro-deposited epoxy paint. The use of zinc electroplating shall be prohibited.
3. Cementitious fill material shall be totally encased within the steel welded shell except where cut for special conditions.

2.4 Accessories

A. Air sealing grommet shall be installed in the interior or on the edge of a factory placed cutout located in one of the two following positions in the panel.
1. OPTION A (Interior Cutout)
a. 4.075" from the left edge of the panel
b. 7.375" from the top and bottom edge of the panel
1) The cutout in the panel shall measure 6.75"x 9.25" and shall be a punched penetration, saw cutting is not acceptable

2) The cutout location shall allow the air sealing grommet to be located in such a way that regardless of rack position or overall dimensions, that the unit will be position beneath the rack allowing for cable penetrations to enter the rack footprint.

2. OPTION B (Perimeter Edge Cutout)
   a. The flange shall align with the left edge of the panel
   b. 7.75" from the top edge and bottom edge of the panel
      1) The cutout in the panel shall measure 7.875"x 9.25" and shall be a punched penetration, saw cutting is not acceptable.

B. Provide manufacturer's standard steps, ramps, fascia plate, perimeter support, and grommets where indicated on the contract drawings.

C. Provide 4 (four) spare floor panels and 16 (sixteen) square feet of understructure systems for each type used in the project for maintenance stock. Deliver to project in manufacturer's standard packaging clearly marked with the contents.

D. Provide 2 (two) panel lifting devices.

2.5 Finishes

A. Factory finish the surface of floor panels with floor covering material as indicated on the contract drawings. Refer to Finish Legend, Finish Schedules and Finish Plans. Where floor coverings are by the access floor manufacturer, the type, color and pattern shall be selected from manufacturer's full product line. All areas to be furnished with laminated floor panels must be maintained at ambient temperature between 50□ to 90□ F and at humidity level between 20% to 80% relative and shall remain within these ranges through installation and occupancy.

B. Tile coverings that require trim edge shall be applied to the panel's top surface and shall not wrap around the panel's edge.

2.6 Fabrication Tolerances

A. Floor panel flatness measured on a diagonal: +/- 0.035"

B. Floor panel flatness measured along edges: +/- 0.025"

C. Floor panel wiodth or length of required size: +/- 0.010"

D. Floor panel squareness tolerance+/- 0.015"

PART 3 – EXECUTION

3.1 Preparation

A. Examine structural subfloor for unevenness, irregularities and dampness that would affect the quality and execution of the work. Do not proceed with installation until structural floor surfaces are level, clean, and dry as completed by others.

B. Concrete sealers, if used, shall be identified and proven to be compatible with pedestal adhesive. Verify that adhesive achieves bond to slab before commencing work.

C. Verify dimensions on contract drawings, including level of interfaces including abutting floor, ledges and doorsills.

D. The General Contractor shall provide clear access, dry subfloor area free of construction debris and other trades throughout installation of access floor system.

E. Area to receive and store access floor materials shall be enclosed and maintained at ambient temperatures between 35□ to 95□ F and relative humidity levels between 20 to 80%. At least 24 hrs. before installation begins, all floor panels shall be stored at ambient temperatures between 50□ to 90□ F and relative humidity levels between 20% to 80% and shall remain within these environmental limits throughout occupancy.

3.2 Installation

A. Pedestal locations shall be established from approved shop drawings so that mechanical and electrical work can be installed without interfering with pedestal installation.

B. Installation of access floor shall be coordinated with other trades to maintain the integrity of the installed system. All traffic on access floor shall be controlled by access floor installer. No traffic but that of access floor installers shall be permitted on any floor area for 24 hours to allow the pedestal adhesive to set. Access floor panels shall not be removed by other trades for 72 hours after their installation.

C. Floor system and accessories shall be installed under the supervision of the manufacturer's authorized representative and according to manufacturer's recommendations.

D. No dust or debris producing operations by other trades shall be allowed in areas where access floor is being installed to ensure proper bonding of pedestals to subfloor.

E. Access floor installer shall keep the subfloor broom clean as installation progresses.

F. Partially complete floors shall be braced against shifting to maintain the integrity of the installed system where required.

G. Additional pedestals as needed shall support panels where floor is disrupted by columns, walls, and cutouts.

H. Understructure shall be aligned such that all uncut panels are interchangeable and fit snugly but do not bind when placed in alternate positions.

I. Finished floor shall be level, not varying more than 0.062" in 10 feet or 0.125" overall.

J. Inspect system prior to application of floor covering and replace any floor panels that are cracked, broken and structurally damaged and do not comply with specified requirements.

K. Acceptance: General contractor shall accept floor in whole or in part prior to allowing use by other trades.

END OF SECTION

SECTION 262816 - DISCONNECT SWITCHES AND INDIVIDUAL CIRCUIT BREAKERS

PART 1 - GENERAL

11.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Owner's Agreement, including General Conditions and Division 1 Specification Sections, apply to this and other Sections of Division 16.

1.02 SUMMARY

A. This Section includes individually mounted switches and circuit breakers used for the following:

1. Feeder and equipment disconnect switches.

2. Individually mounted circuit protection.

3. Motor disconnect switches.

B. Related Sections: The following Sections contain requirements that relate to this Section:

1. Section - Wiring Devices for attachment plugs and receptacles, and snap switches used for disconnect switches.

2. Section - Fuses for fuses in fusible disconnect switches.

1.03 SUBMITTALS

A. General: Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.

B. Product Data for disconnect switches, circuit breakers and accessories specified in this Section.

C. Product Data for switches, circuit breakers and accessories specified in this Section. Include the following:

1. Descriptive data and time-current curves.

2. Let-through current curves for circuit breakers with current-limiting characteristics.
3. Coordination charts and tables and related data.

D. Wiring diagrams detailing wiring for power and control systems and differentiating between manufacturer-installed and field-installed wiring.

E. Qualification data for firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners and other information specified.

F. Field test reports indicating and interpreting test results.

G. Maintenance data for tripping devices to include in the operation and maintenance manual specified in Division 1.

1.04 QUALITY ASSURANCE

A. Testing Agency Qualifications: In addition to the requirements specified in Division 1 Section "Quality Control," an independent testing agency shall meet OSHA criteria for accreditation of testing laboratories, Title 29, Part 1907, or shall be a full member company of the International Electrical Testing Association (NETA).

1. Testing Agency's Field Supervisor: Person currently certified by NETA or the National Institute for Certification in Engineering Technologies, to supervise on-site testing specified in Part 3.

B. Source Limitations: Obtain disconnect switches and circuit breakers from one source and by the same manufacturer as the switchgear.

C. Comply with NFPA 70 for components and installation.

D. Listing and Labeling: Provide disconnect switches and circuit breakers specified in this Section that are listed and labeled.

1. The Terms "Listed" and "Labeled": As defined in the National Electrical Code, Article 100.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide disconnect switches and circuit breakers by the same manufacturer as the electrical distribution equipment:

2.02 DISCONNECT SWITCHES

A. Enclosed, Fusible Switch, 800 A and Smaller: Heavy duty NEMA KS 1, Type HD, clips to accommodate specified fuses, enclosure consistent with environment where located, handle lockable with 2 padlocks, and interlocked with cover in CLOSED position.

B. Enclosure: NEMA KS 1, Type 1, unless otherwise specified or required to meet environmental conditions of installed location.

1. Outdoor Locations: Type 3R.

2. Other Wet or Damp Indoor Locations: Type 4.

C. Enclosure: NEMA KS 1, Type 1, unless otherwise specified or required to meet environmental conditions of installed location.

1. Outdoor Locations: Type 3R.
2. Other Wet of Damp Indoor Locations: Type 4.
3. Hazardous Areas Indicated on Drawings: Type 7C.

D. Accessories: Each disconnect switches serving motors and other equipment that is controlled with starters and/or adjustable frequency drives shall be provided with auxiliary switches that open when the disconnect handle is opened. Switch shall be designed so that the auxiliary switch opens prior to the power contacts opening and close after the power contacts closed.

2.02 ENCLOSED CIRCUIT BREAKERS

A. Enclosed, Molded-Case Circuit Breaker: NEMA AB 1, with lockable handle.

1. Characteristics: Frame size, trip rating, number of poles and auxiliary devices as indicated and interrupting capacity rating to meet available fault current in accordance with UL 67.

2. Application Listing: Appropriate for application, including Type SWD for switching fluorescent lighting loads and Type HACR for heating, air-conditioning and refrigerating equipment.

3. Circuit Breakers, 100 A and Larger: Trip units interchangeable within frame size.

4. Circuit Breakers, 200 A and Larger: True RMS sensing with field-adjustable long time, short-time, i^2t in/out and continuous current settings.

5. Current-Limiting Trips: Where indicated, let-through ratings less than NEMA FU 1, Class RK-5.

6. Current Limiters: Where indicated, integral fuse series rated and listed for circuit breaker.

7. Lugs: To accommodate compression lugs specified elsewhere in these specifications. Where not available provide mechanical lugs fully rated for 90ºC and power-distribution connectors for number, size and material of conductors indicated.

8. Shunt Trip: Where indicated.

B. Molded Case Switch: Where indicated, molded case circuit breaker with instantaneous trip only.

C. Lugs: To accommodate compression lugs specified elsewhere in these specifications. Where not available provide mechanical lugs fully rated for 90ºC and power-distribution connectors for number, size and material of conductors indicated.

D. Accessories: As indicated.

E. Enclosure: NEMA AB 1, Type 1, unless otherwise specified or required to meet environmental conditions of installed location.

1. Outdoor Locations: Type 3R.

2. Kitchen Areas: Type 4X, stainless steel.

3. Other Wet or Damp Indoor Locations: Type 4.

4. Hazardous Areas Indicated on Drawings: Type 7C.

2.03 LOCKOUT/TAGOUT OF BRANCH-CIRCUIT DEVICES

A. Each overcurrent protective device shall be provided with the capability of being locked out in compliance with OSHA Standard 1910.147.

B. Each overcurrent protective device enclosure shall be provided with Stranco, Inc. Circuit Safe™ lockout system. Provide circuit safe unit with length to match the total length of the overcurrent protective devices, including the future devices. Coordinate the centerline separation of breakers and the distances from the enclosure center. Provide one pin holder and two of each type lockout pins for each enclosure. Provide mounting shims and offset brackets as required.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install disconnect switches and circuit breakers in locations in direct sight of the equipment it serves, according to manufacturer's written instructions.

B. Install disconnect switches and circuit breakers level and plumb.

C. Install wiring between disconnect switches, circuit breakers, control, and indication devices.

D. Connect disconnect switches and circuit breakers and components to wiring system and to ground as indicated and instructed by manufacturer.

1. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

E. Identify each disconnect switch and circuit breaker according to requirements specified in Division 26 Section - Electrical Identification.

F. Provide control wiring between disconnect auxiliary switch and motor starter circuits. Circuit switches to drop motor starter contactors out when switches are opened and to prevent contactors from closing when disconnect switch is open.

3.02 FIELD QUALITY CONTROL

A. Testing Agency: Provide the services of a qualified independent testing agency to perform specified field quality-control testing.

B. Testing: After installing disconnect switches and circuit breakers and after electrical circuitry has been energized, demonstrate product capability and compliance with requirements.

1. Procedures: Perform each visual and mechanical inspection and electrical test stated in NETA ATS, Section 7.5 for disconnect switches and Section 7.6 for molded-case circuit breakers. Certify compliance with test parameters.

C. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, remove and replace with new units and retest.

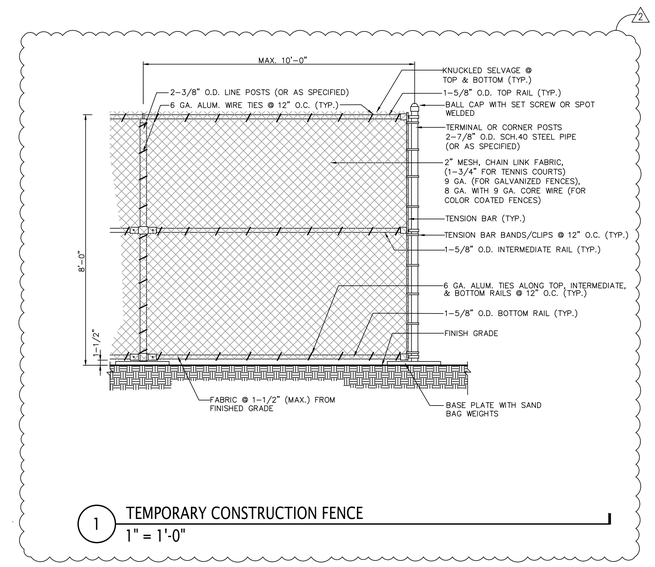
3.03 ADJUSTING

A. Set field-adjustable disconnect switches and circuit-breaker trip ranges as indicated.

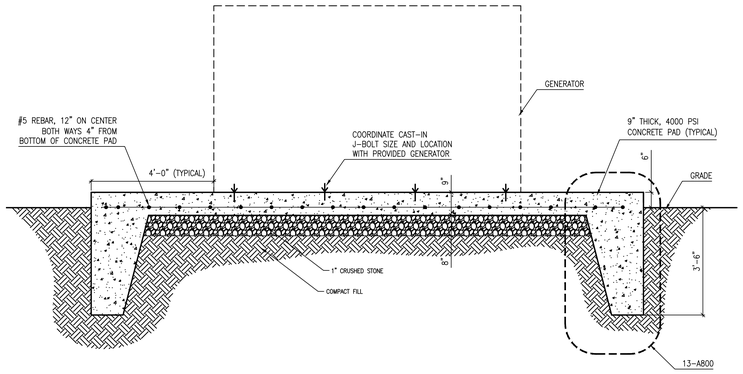
3.04 CLEANING

A. After completing system installation, including outlet fittings and devices, inspect exposed finish. Remove burrs, dirt and construction debris and repair damaged finish including chips, scratches and abrasions.

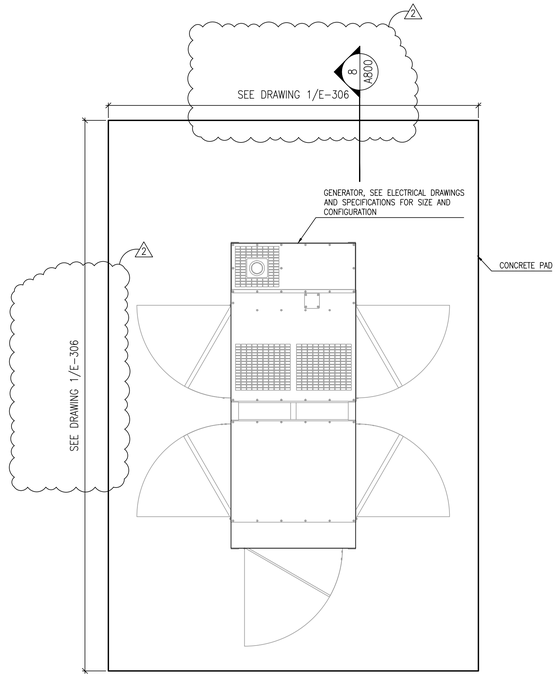
END OF SECTION



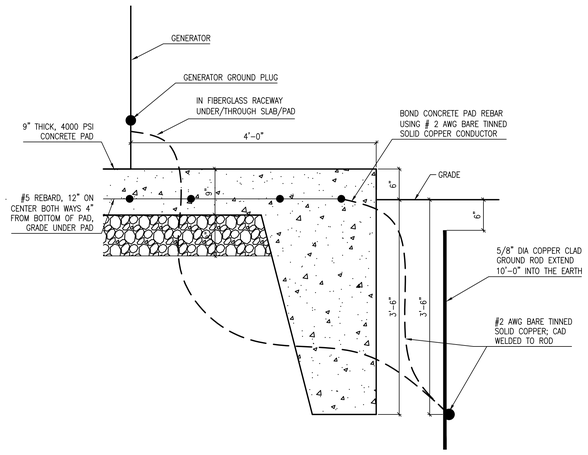
1 TEMPORARY CONSTRUCTION FENCE
1" = 1'-0"



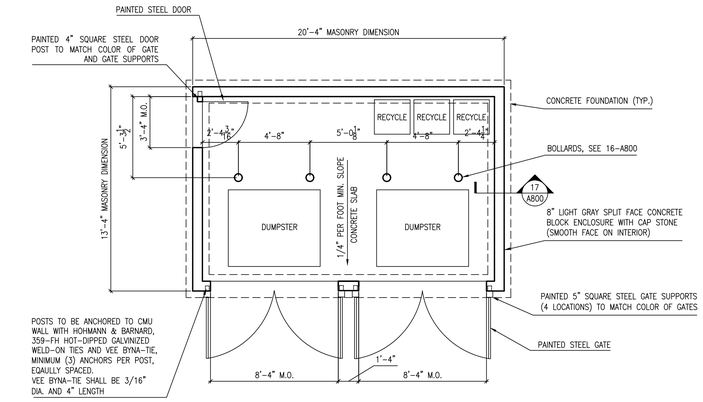
8 GENERATOR PAD SECTION
1/2" = 1'-0"



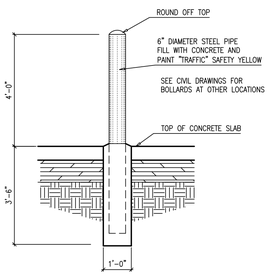
12 GENERATOR PAD PLAN
1/2" = 1'-0"



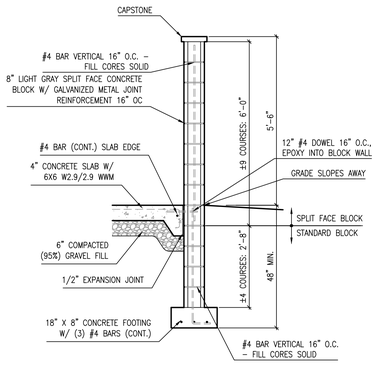
13 GROUNDING DIAGRAM
1" = 1'-0"



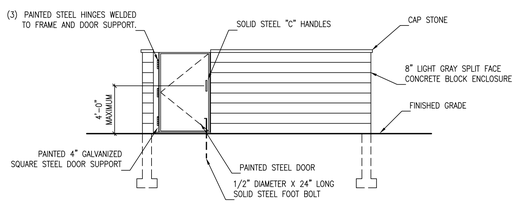
14 DUMPSTER ENCLOSURE PLAN
1/4" = 1'-0"



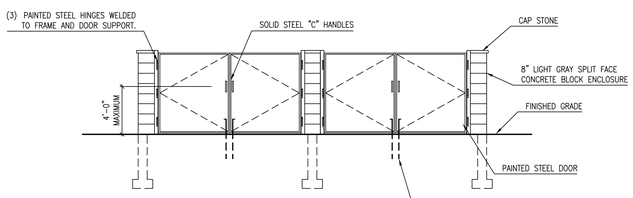
16 BOLLARD DETAIL AT DUMPSTER ENCLOSURE
1/2" = 1'-0"



17 DUMPSTER ENCLOSURE SECTION DETAIL
1/2" = 1'-0"



18 DUMPSTER ENCLOSURE SIDE SECTION
1/4" = 1'-0"



19 DUMPSTER ENCLOSURE FRONT ELEVATION
1/4" = 1'-0"

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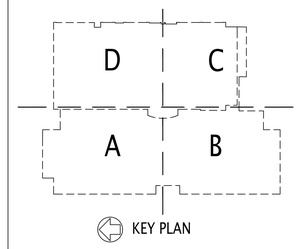

ISSUE NO.	ISSUE DATE	DESCRIPTION
2	12/28/2021	ADDENDUM 3
1	12/3/2021	ADDENDUM 1
1	11/9/2021	RELEASE FOR BID

TOWN OF ORANGETOWN — RICH IN HISTORY

ORANGETOWN TOWN HALL
ADDITION AND ALTERATIONS

26 ORANGEBURG RD
ORANGEBURG, NEW YORK 10962

MISCELLANEOUS SITE DETAILS

PROJECT NO.: 2219-05 | SCALE: AS NOTED

DRAWING NO.:
A800

KEYED NOTES

1. CIRCUIT THE HOMERUN AND/OR ELECTRICAL DEVICES IN THIS ROOM/AREA TO THE RESPECTIVE CIRCUITRY THAT FED THE ORIGINAL LAYOUT IN THE ROOM/AREA. PROVIDE/EXTEND CIRCUITRY AND/OR MODIFY SYSTEM(S) AS REQUIRED TO ACCOMMODATE THE WORK UNDER THIS CONTRACT.
2. REPLACE THE EXISTING FIRE ALARM CONTROL PANEL (FACP). EDWARDS IO SERIES WITH EDWARDS EST-4 SYSTEM. THE CURRENT SYSTEM IS MAINTAINED AND WARRANTED BY REDHAWK (JOHN CIROCCO 914-418-9420 johncirocco@adt.com). MAINTAIN ALL SYSTEM WARRANTEES. SYSTEM SHALL BE COMPATIBLE WITH ALL THE EXISTING FIRE ALARM DEVICES AND COMPONETS/FUNCTIONS. PROVIDE ADDITIONAL FEATURES, POWER SUPPLIES AND NETWORK EXPANSIONS AS REQUIRED TO ACCOMMODATE THE WORK UNDER THIS PROJECT AND UNDER THIS CONTRACT.
3. PROVIDE COMPUTER AND ASSOCIATED GRAPHICS, SOFTWARE, PROGRAMMING, ETC., AS REQUIRED FOR ACTIVE REMOTE GRAPHIC DISPLAY AND SYSTEM MANAGEMENT. CONNECT AND PROGRAM TO THE FACP.
4. PROVIDE EXTERIOR AUDIBLE DEVICE (GONG) TO ANNUNCIATE FIRE SPRINKLER WATER FLOW. PROVIDE POWER (FACP BATTERY BACKED) AND FIRE ALARM INTERFACE/SUPERVISION.

ALTERNATE-01
ALL DEVICES, METHOD AND MATERIALS IN THIS AREA ARE TO BE INSTITUTIONAL VANDAL RESISTANT GRADE.

1 PART LEVEL 01 PLAN (FIRE ALARM)

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

PROVIDE (6)ADDITIONAL DETECTORS, (2)ADDITIONAL INDICATING A/V APPLIANCES AND (2) ADDITIONAL PULL STATIONS . LOCATE AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

MAGNETIC NORTH / PROJECT NORTH

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CBK PROJECT NO. 21030

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TOWN OF ORANGETOWN — RICH IN HISTORY

ORANGETOWN TOWN HALL
ADDITION AND ALTERATIONS

26 ORANGEBURG RD
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ELECTRICAL LEVEL 01 PLAN (FIRE ALARM)

PROJECT NO.: 2219-05

DRAWING NO.:

E-211

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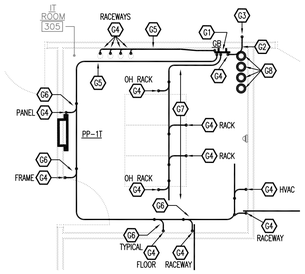
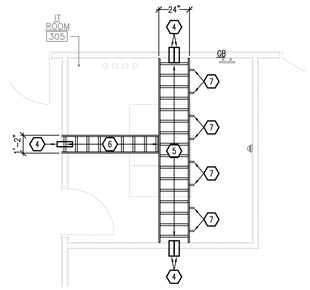
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



2 PART THIRD FLOOR PLAN IT ROOM 305 (GROUNDING)

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



2 PART THIRD FLOOR PLAN IT ROOM 305 (HORIZONTAL RACKING)

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

KEYED NOTES(GROUNDING)

G1 PROVIDE WALL MOUNTED COPPER GROUND BAR. MOUNT AT 7' AFF.

G2 BOND GROUND BAR TO BUILDING STEEL USING #2AWG GREEN INSULATED TELCOFLEX COPPER CONDUCTOR (GITCC).

G3 CADWELD TO BUILDING STEEL.

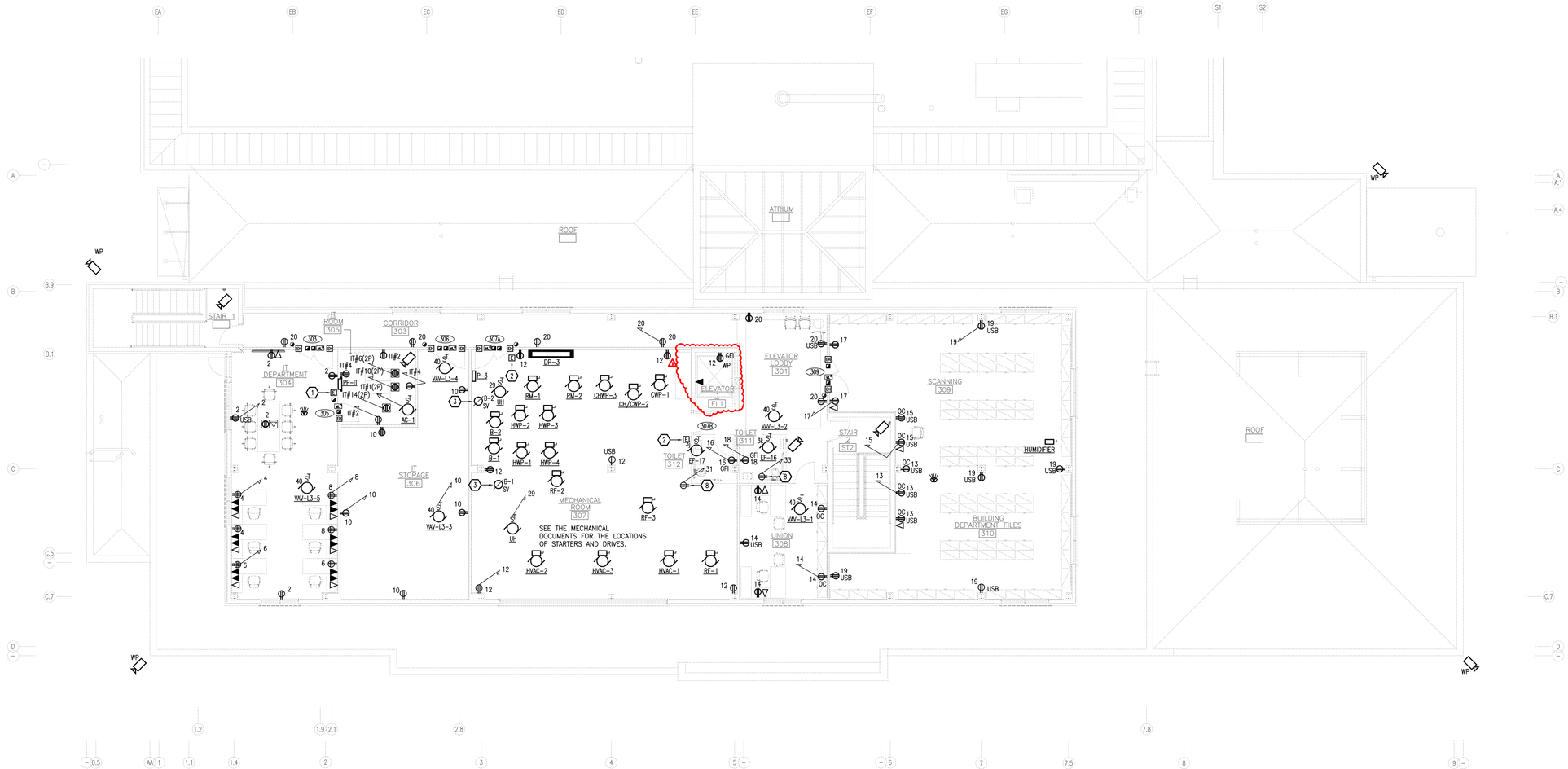
G4 BOND TO BAR/APPURTENANCE. TERMINATE USING TWO HOLD LONG BARREL DUAL CRIMP TONGUE LUG. PROVIDE CLEAR HEAT SHRINK OVER THE BARREL AND INSULATION GAP.

D5 #2AWG GITCC

G8 TAP MAIN RUNNER WITH #6AWG GITCC. CONNECT TO MAIN RUNNER USING CAST STYLE COMPRESSION BURNDY H-TAP WITH CLEAR LEXAN COVER.

G7 RUN/SUPPORT ON SIDE HOOKS OF OVERHEAD HORIZONTAL LADDER RACK. SECURE TO HOOKS USING WAXED TWINE.

G8 BOND RACEWAYS TO BAR USING #6AWG GITCC.



1 PART LEVEL 03 PLAN (POWER)

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

ALL CIRCUITS ON THIS DRAWING ARE TO PANEL P-3 UNLESS OTHERWISE NOTED (UON)

MAGNETIC NORTH / PROJECT NORTH

KEYED NOTES

1. PROVIDE EMERGENCY POWER OFF (EPO) STATION. CIRCUIT TO SHUT OFF ALL POWER IN THE IT ROOM ON ACTIVATION OF THE STATION. CIRCUIT TO SHUNT TRIP THE MAIN CIRCUIT BREAKER IN THE IT POWER PANEL. CIRCUIT THE SECOND POLE TO SHUT OFF ALL UPS POWER IN THE IT ROOM.
2. PROVIDE EMERGENCY SHUT OFF STATION TO SHUT DOWN BOILERS ON ACTIVATION OF THE STATION. CIRCUIT TO SHUNT TRIP THE CIRCUIT BREAKERS THAT FEED THE BOILERS B-1 AND B-2 AND THE CHILLERS RM-1 AND RM-2.
3. CIRCUIT GAS SOLENOID VALVE TO SHUT DOWN FUEL FEED TO THE ASSOCIATED UNIT ON DETECTION OF CARBON-MONOXIDE BY THE CO DETECTOR ASSOCIATED WITH THE FUEL FIRED UNIT..
4. EZ-PATH SERIES 44+ FIRE RATED (WHILE OPEN) CABLE PATHWAY. SPECIFIED TECHNOLOGIES INC. WITH WALL TRIM PLATES (SINGLE OR MULTI GANGED TO MATCH APPLICATION).
5. CENTRAL STEEL FABRICATORS SERIES 110, 1.5" CABLE RACKING ASSEMBLY WITH SOLID BAR AND CHANNELS #11024. SUPPORT TO STRUCTURE ABOVE WITH 5/8" THREADED RODS (BOTH SIDES) ON 4' CENTERS. PROVIDE ASSOCIATED FITTINGS AND ADAPTERS.
6. CENTRAL STEEL FABRICATORS SERIES 110, 1.5" CABLE RACKING ASSEMBLY WITH SOLID BAR AND CHANNELS #11012. SUPPORT TO STRUCTURE ABOVE WITH 5/8" THREADED RODS (BOTH SIDES) ON 4' CENTERS. PROVIDE ASSOCIATED FITTINGS AND ADAPTERS.
7. CENTRAL STEEL FABRICATORS ACB53R SIDE MOUNTED AUX CABLE BRACKET.
8. FOR POINT OF USE WATER HEATER. MOUNT ABOVE ACCESSIBLE CEILING. SEE MECHANICAL PLANS FOR EXACT LOCATION(S).

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ORANGETOWN TOWN HALL

ADDITION AND ALTERATIONS

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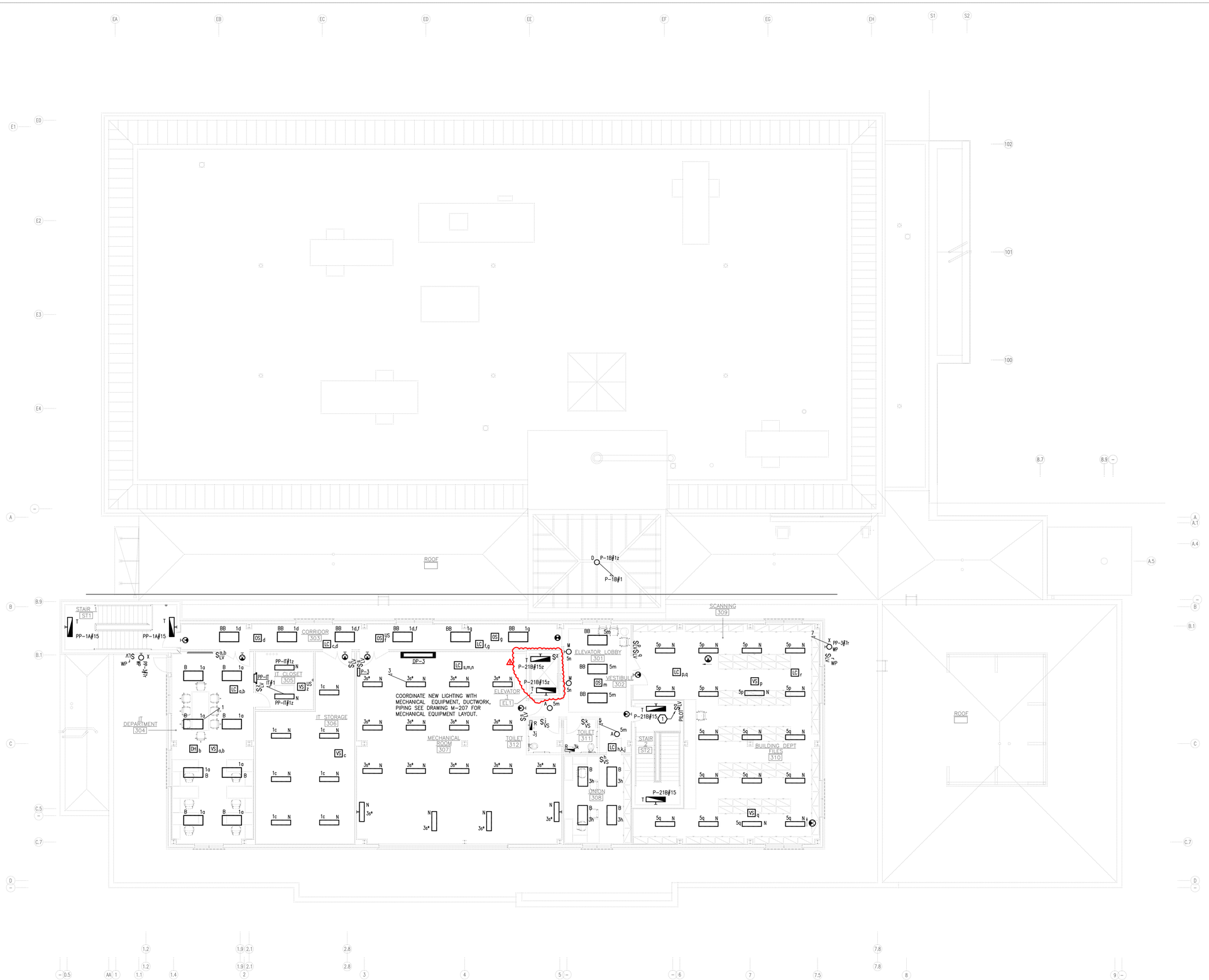
ORANGEBURG, NEW YORK 10962

ELECTRICAL LEVEL 03 PLAN (POWER)

PROJECT NO.: 2219-05

DRAWING NO.:

E-217



1 PART LEVEL 03 PLAN (LIGHTING)

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

LIGHTING CIRCUITRY TO INCLUDE ADDITIONAL 2/C FOR 0-10V DIMMING CONTROLS.
ALL CIRCUITS ON THIS DRAWING ARE TO PANEL P-3 UNLESS OTHERWISE NOTED (UON)
CIRCUIT ALL EXIT SIGN ON THIS DRAWING TO PANEL P-3 CIRCUIT #42 UON.

MAGNETIC NORTH / PROJECT NORTH

KEYED NOTES

1. FOR ROOF TOP LIGHTING, SWITCH WITH ILLUMINATED HANDLE. ILLUMINATED WHEN LOAD IS ON. PROVIDE ENGRAVED COVER PLATE IDENTIFYING LOAD.
2. PROVIDE SELF ILLUMINATING LOW LEVEL EGRESS MARKING READING "NOT AN EXIT".
3. PROVIDE IN 1 1/4" RACEWAY BETWEEN ACCESSIBLE CEILING CAVITIES, BETWEEN FLOORS.

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ORANGETOWN TOWN HALL
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26 ORANGEBURG RD
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ELECTRICAL LEVEL 03 PLAN (LIGHTING)

PROJECT NO.: 2219-05

DRAWING NO.:

E-219

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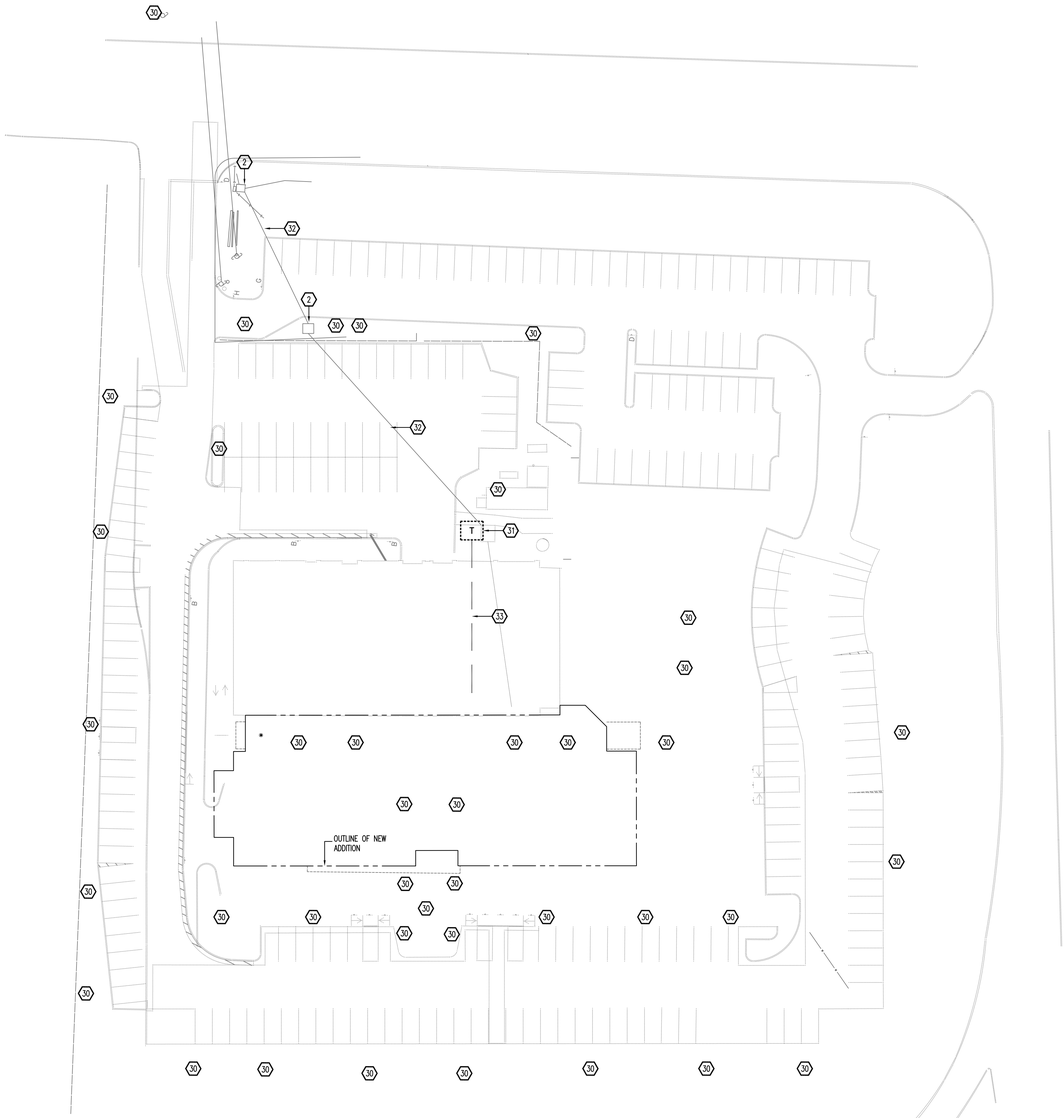
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

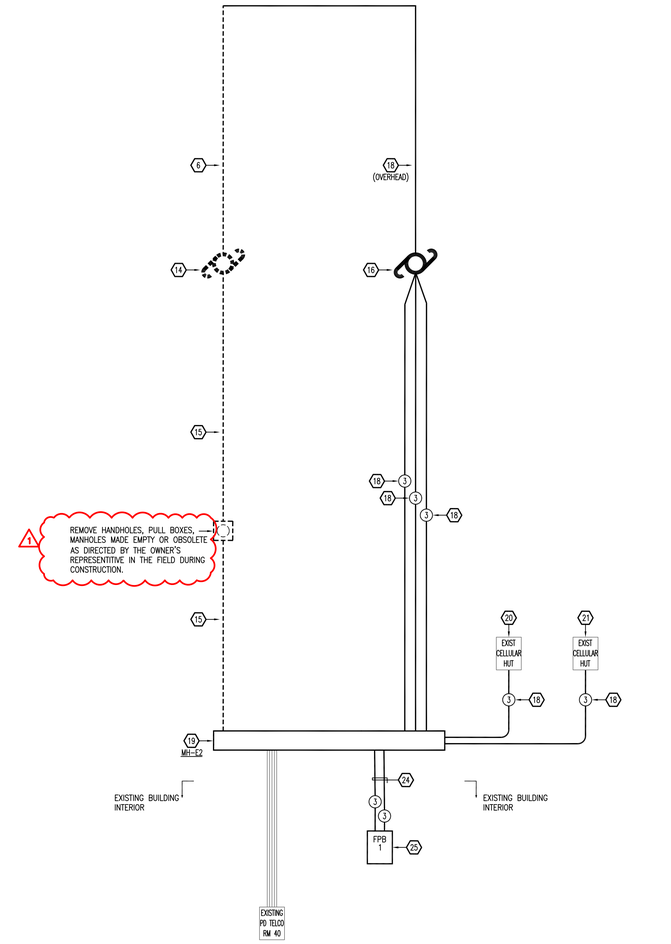


1 ELECTRICAL SITE PLAN(REMOVALS)

MAGNETIC NORTH / PROJECT NORTH

SCALE: 1/32"=1'-0"

FEEDERS, RACEWAYS, SERVICES INDICATED ON THIS DRAWINGS ARE UNDER GROUND UON. PROVIDE ALL LOCATING, MARKING AND IN GROUND INVESTIGATION TO DETERMINE WHAT EXISTS AND THE BEST ROUTINGS TO BE USED. PROVIDE ALL EXPLORATORY EXCAVATION REQUIRED TO ENSURE COORDINATION WITH EXISTING CONDITIONS.



2 OUTSIDE PLANT FIBER OPTIC/COMMUNICATIONS DIAGRAM

SCALE: NO SCALE

1. (3) SEE FIBER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

KEYED NOTES

1. EXISTING UTILITY POWER UNDERGROUND PRIMARY ELECTRICAL SERVICE FEEDER (VIF). ROUTING IS APPROXIMATE. MAINTAIN CONTINUITY OF SERVICE. MARK OUT AND PROTECT .
2. EXISTING UTILITY POWER ELECTRICAL SERVICE ACCESS POINT/HANDHOLE WITH ABOVE GRADE COVER. MAINTAIN CONTINUITY OF SERVICE.
3. EXISTING PAD MOUNTED UTILITY ELECTRIC SERVICE TRANSFORMER.
4. EXISTING UNDERGROUND SECONDARY ELECTRIC SERVICE FEEDER (VIF). MAINTAIN CONTINUITY OF SERVICE. MARK OUT AND PROTECT .
5. EXISTING UTILITY POWER POLE TO BE REMOVED/RELOCATED.
6. EXISTING UTILITY POWER OVERHEAD FEED (UN-METERED) TO BE MODIFIED, REMOVED/RELOCATED.
7. NOT USED
8. EXISTING UTILITY POWER REVENUE METER MOUNTED ON POLE TO REMAIN. ENSURE CONTINUITY OF SERVICE.
9. EXISTING UTILITY POWER REVENUE METER, ASSOCIATED 3R OCPD AND WOOD SUPPORT STRUCTURE TO REMAIN. ENSURE CONTINUITY OF SERVICE..
10. UNDERGROUND UTILITY POWER SERVICE FEEDER TO REMAIN. ENSURE CONTINUITY OF SERVICE.
11. OUTDOOR DIESEL GENERATOR WITH BASE FUEL TANK-CRITICAL SOUND ATTENUATED GENERATOR.
12. OUTDOOR SOUND ATTENUATED LEVEL 1 ENCLOSURE.
13. NOT USED
14. EXISTING UTILITY POLE (COMMUNICATIONS/FIBER) TO REMAIN. ENSURE CONTINUITY OF SERVICE.
15. UNDERGROUND RACEWAYS WITH COMMUNICATIONS FIBER OPTIC CABLING TO BE MODIFIED.
16. NOT USED
17. EXTENDED UNDERGROUND RACEWAYS TO ACCOMMODATE THE RELOCATION AND EXTENSION OF FIBER OPTIC SERVICES.
18. PROVIDE NEW FIBER OPTIC CABLING FROM SERVICE PROVIDER TO FACILITY DEMARK (IN BASEMENT). WHERE IN RACEWAY PROVIDE EACH PROVIDER IN ITS OWN INNER DUCT.
19. 5'X5'X5' ROADWAY RATED MANHOLE COMPLETE WITH COLLAR, COVER AND ALL NECESSARY APPURTENANCES.
20. EXISTING CELLULAR CARRIER #1 COMMUNICATIONS HUT.
21. EXISTING CELLULAR CARRIER #2 COMMUNICATIONS HUT.
22. 2#10,1#10G (PLUS 4#10 SPARES)-1"C UG TO TIME CLOCK CIRCUIT IN MAIN ELECTRIC ROOM.
23. OVERHEAD FIBER OPTIC (UTILITY) CABLING TO BE MODIFIED TO ACCOMMODATE POLE RELOCATIONS.
24. UNDERGROUND RACEWAYS FOR ADDITIONAL/RELOCATED COMMUNICATIONS SERVICES.
25. BUILDING END BOX FOR ADDITIONAL FIBER OPTIC/TELCO SERVICE CABLING.
26. SHADED AREA INDICATES APPROXIMATE AREA OF BUILDING ADDITION.
27. PROVIDE (4)2" UNDERGROUND SPARE RACEWAY FOR FUTURE USE. CAP BOTH ENDS BELOW GRADE. PROVIDE SURFACE GROUND MONUMENTS TO MARK THE AREAS WHERE THE RACEWAYS ARE TERMINATED.
28. MULTIPLE UNDERGROUND FEEDERS/CIRCUITRY/RACEWAYS BETWEEN BUILDING AND OUTDOOR GENERATOR. SEE DETAILS FOR ADDITIONAL INFORMATION.
29. WATER SERVICE "HOT BOX". SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
30. REMOVE EXISTING LIGHTING FIXTURE/UNIT.
31. NOT USED
32. NOT USED
33. NOT USED
34. APPROXIMATE LOCATION OF PANEL P-B IN BASEMENT OF EXISTING BUILDING.
35. FOR POLE/MONUMENT/STATUE. LOCATE PER ARCHITECTURAL DRAWINGS/OWNER'S REPRESENTATIVE. AIM LIGHT PATTERN TO PREVENT EXCESSIVE UPWARD/SKYWARD DISTRIBUTION.
36. IN ADDITION TO THE POWER CIRCUITRY, PROVIDE AN ADDITIONAL 1" UG RACEWAY WITH 12 STRAND FIBER CABLE TO FIRST FLOOR IT CLOSET. TERMINATE FIBER AT FIRST FLOOR PATCH BAY AND AT CHARGING STATION.
37. GEN-T. TEMPORARY TRAILER MOUNTED STANDBY GENERATOR AND ASSOCIATED FEEDERS AND SHORE POWER/CONTROL CIRCUITRY. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. VARY LOCATIONS AS REQUIRED TO ACCOMMODATE PROJECT PHASING. INCLUDE FULL BASE TANK OF FUEL (SITE DELIVERED) AND (2) ADDITIONAL SITE DELIVERED (TANK CAPACITY) REFILLS OF FUEL. PROVIDE FOR DURATION OF THE PROJECT OR UNTIL DIRECTED BY THE OWNER'S REPRESENTATIVE. INCLUDE ALL ASSOCIATED COSTS IN THE BID SUBMISSION.
38. RECIRCUIT TO THIS EQUIPMENT. RELOCATE EQUIPMENT TO NEW LOCATION CIRCUIT TO THE ORIGINAL SOURCE. PROVIDE NEW CIRCUITRY. MATCH EXISTING CIRCUITRY.

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TOWN OF ORANGETOWN — RICH IN HISTORY

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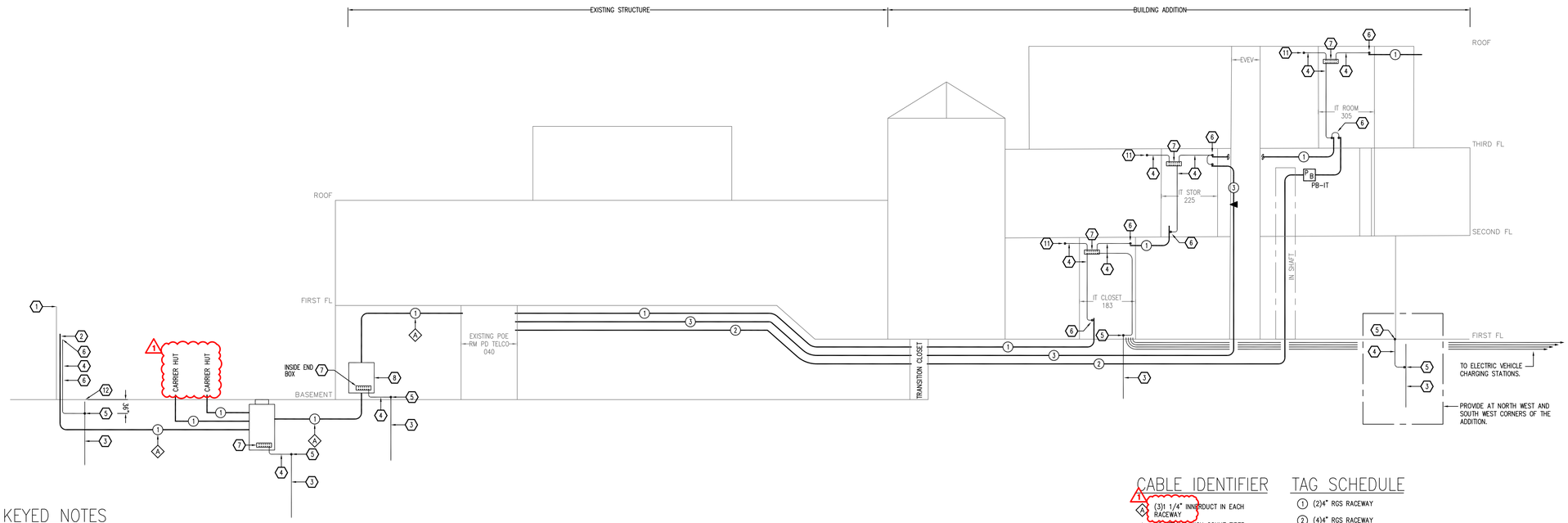
ELECTRICAL PART ONE-LINE POWER DIAGRAM, OUTDOOR PLANT FIBER OPTIC DIAGRAM AND KEYED NOTES

PROJECT NO.: 2219-05

DRAWING NO.:

E-302



KEYED NOTES

1. EXISTING UTILITY POLE WITH TELCO/FIBER SERVICES.
2. RUN RACEWAYS UP UTILITY POLE ON SIDE OPPOSITE ON COMING TRAFFIC.
3. 5/8"ø X 10' COPPER CLAD GROUND ROD. DRIVE INTO EARTH TILL TOP OF THE ROD IS 8" BELOW FINISHED GRADE. PROVIDE MARKER MONUMENT AT GRADE DIRECTLY ABOVE ROD.
4. #2AWG SOLID TINNED COPPER CONDUCTOR.
5. CADWELD CONDUCTOR TO GROUND ROD.
6. BOND CONDUCTOR TO RISER RACEWAYS USING BURNDY PIPE CLAMPS.
7. COPPER GROUND BAR.
8. FIBER OPTICS END BOX. HOFFMAN A48R3616NK. WALL MOUNTED 48"H X 36"W X 16"D POWDER COATED MILD STEEL ENCLOSURE BOX.
9. 144 POSITION FIBER OPTIC PATCH BAY/PANEL 19" RACK MOUNTED.
10. 24 POSITION FIBER OPTIC PATCH BAY/PANEL 19" RACK MOUNTED.
11. CADWELD TO BUILDING STEEL.
12. PROVIDE TEST WELL/COVER/MARKER.

1 IT/COMMUNICATIONS BACKBONE RISER DIAGRAM

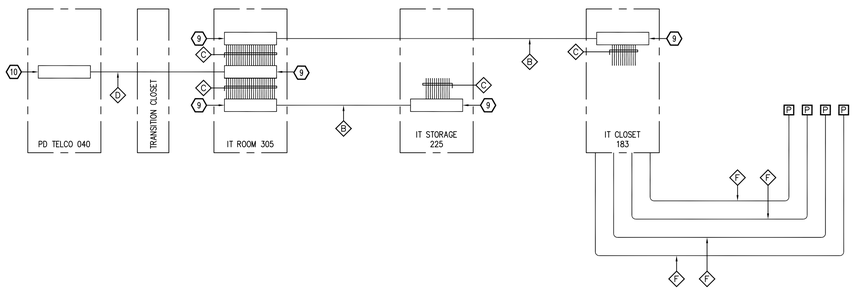
SCALE: NO SCALE
MAIN INFRASTRUCTURE SEE PLANS FOR OUTLET QUANTITIES AND LOCATIONS
ALL WORK IS CONCEALED. ALL WORK INDICATED IS BASE BID

CABLE IDENTIFIER

1. (3)1 1/4" INNERDUCT IN EACH RACEWAY
- A: 48 STRAND HIGH COUNT FIBER IN 1 1/4" INNER-DUCT IN RACEWAY
- B: FIBER PATCH CORD/CABLE. MULTIPLE QUANTITIES WHERE INDICATED BY NUMBER IN PARENTHESES.
- C: 144 STRAND HIGH COUNT FIBER IN 1 1/4" INNER-DUCT IN RACEWAY
- D: 12 STRAND FIBER IN RACEWAY

TAG SCHEDULE

1. (2)4" RGS RACEWAY
2. (4)4" RGS RACEWAY
3. 1" RGS RACEWAY



2 FIBER OPTIC BLOCK DIAGRAM

SCALE: NO SCALE
FOR THROUGH IT ROOMS

1. THE FIBER TYPE (MULTI-MODE OR SINGLE MODE) IS NOT SPECIFIED. INCLUDE THE COST OF THE MORE EXPENSIVE OPTION IN THE BID SUBMISSION. THE OWNER RESERVES THE RIGHT TO CHOOSE WHAT MODE FIBER IS TO BE PROVIDED WITHOUT ADDITIONAL COST. INCLUDE ALL ASSOCIATED COSTS IN THE BID SUBMISSION.

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CBK PROJECT NO. 21030

ISSUE NO.	ISSUE DATE	DESCRIPTION
2	12/28/2021	ADDENDUM NO 3
1	11/9/2021	RELEASE FOR BID

TOWN OF ORANGETOWN — RICH IN HISTORY

ORANGETOWN TOWN HALL
ADDITION AND ALTERATIONS

26 ORANGEBURG RD
ORANGEBURG, NEW YORK 10962

IT/COMMUNICATIONS RISER DIAGRAM

PROJECT NO.: 2219-05

DRAWING NO.:

E-303

NOTES:

A. EQUIPMENT RACKS:

1. PROVIDE IN EACH IT CLOSET GREAT LAKES 4-POST FLOOR-TO-CEILING ALUMINUM RELAY RACKS PN: 4PM6-36. IN MAIN IT ROOM PROVIDE 3 RACKS.

2. LOCATE RACK IN IT ROOM. SECURE EACH RACK TO THE FLOOR AND TO THE CEILING TO ENSURE STABILITY. BOLT RACKS TO THE STRUCTURAL FLOOR USING 1/2" HARDWARE.

3. INSTALL ALL RACKS WITH A MINIMUM OF 3-FOOT CLEARANCE FOR THE FRONT AND BACK OF EACH RELAY RACK.

4. PROVIDE THREE 48-PORT PATCH PANELS IN EACH RACK.
PROVIDE SUPERIOR MODULAR PART# DCC4888/110SIX PATCH PANELS.

5. PROVIDE WIRE MANAGEMENT PANELS SEPARATING ALL PATCH PANELS. PROVIDE SUPERIOR MODULAR C017519L SEPARATING PATCH PANELS. PROVIDE TOP WIRE MANAGEMENT PANELS IN EACH RELAY RACK MANUFACTURED BY SUPERIOR MODULAR.

6. PROVIDE TWO SUPERIOR MODULAR PN:C03519L WIRE MANAGEMENT PANEL AT THE TOP OF EACH RACK

7. PROVIDE SUPERIOR PN:C017519L WIRE MANAGEMENT PANEL UNDER THE PATCH PANELS IN EACH RACK

8. TERMINATE ALL INSTALLED DATA CABLES AT PATCH PANEL(S) AND AT JACKS.

9. PROVIDE GREAT LAKES LARGE BUNDLE CABLE ORGANIZER PN: 1984-VCM10 ON EACH SIDE OF THE 4-POST RACKS (AND/OR BETWEEN RACKS)

10. PROVIDE EACH RACK WITH 2 RACK MOUNTABLE POWER STRIP WITH A MINIMUM OF 8 RECEPTACLES.

B. CATEGORY (CAT) 6/6A CABLING

1. PROVIDE 24 AWG, 4 PAIR CATEGORY 6 A CABLES CONFORMING TO INTERNATIONAL STANDARDS ORGANIZATION (ISO) STANDARD 11801 FOR CATEGORY 6 CABLES.
2. ALL CABLES SHALL BE COLOR CODED AS FOLLOWS:

3. BLUE: PC'S
4. WHITE/GRAY: TELEPHONES (V1 & V2)
5. GREEN: LIGHTING CONTROL NETWORK

6. TERMINATE ALL CAT6 CABLES ON WALL RJ-45 JACKS THROUGHOUT THE SPACE AND AT THE CORRESPONDING PATCH PANELS IN IT ROOM.

7. LABEL AND DOCUMENT ALL CABLES INSTALLED UNDER THIS CONTRACT. CONFORM TO TIA/EIA 606 STANDARD.

8. ALL CABLING INSTALLED FOR THIS CONTRACT MUST ACHIEVE 10.8 DB ACR AT 200MHZ. CONFORM TO EIA/TIA TSB67 CABLE TESTING CRITERIA. TEST ALL CABLES AND SUBMIT CERTIFIED TEST REPORTS.

9. ALL CAT6 CABLE RUNS ARE TO BE INSTALLED CONCEALED, IN RACEWAY FROM THE JACK UP INTO THE ACCESSIBLE CEILING CAVITY; CONTINUE ABOVE/ACROSS THE ACCESSIBLE CEILINGS AND RUN IN CABLE SLINGS ATTACHED TO THE SLAB ABOVE USING CABLE HOOKS IN SUCH A WAY THAT NO CABLE SHALL BE LYING ON THE DROP CEILING OR CEILING GRID. CABLES SHALL RUN CONTINUOUS INTO THE ASSOCIATED DATA PANEL, THROUGH THE PANEL IN THE COLLECTED RACEWAY(S) TO THE PATCH PANEL IN THE IT ROOM.

10. MACHINE LABEL ALL CABLES WITHIN 1 INCH OF TERMINATION.

C. NOT USED

D. JACKS AND TERMINATIONS

1. CABLE JACKS – ALL CABLES SHALL BE TERMINATED ON "KEYSTONE STYLE" RJ45 JACKS, AND BE MOUNTED IN FACEPLATES. ALL JACKS ASSOCIATED WITH THIS INSTALLATION SHALL BE WIRED TO THE T568B WIRING STANDARD. LABEL EACH JACK POSITION WITH A TENANT DESIGNATED CODE AND COLOR SCHEME TO MATCH THE AFOREMENTIONED COLOR CODING.

2. FACEPLATES – ALL CABLES SHALL BE MOUNTED IN FACEPLATES, AND ALL FACEPLATE SHALL BE ATTACHED TO THE WALL IN SHEET METAL BOXES WITH RACEWAY RISERS. ALL FACEPLATES SHALL BE ALMOND OR WHITE IN COLOR, AND CLEARLY LABELED.

3. ALL VOICE RJ-45 JACKS INDICATED ON THE CONTRACT DOCUMENTS SHALL COLOR CODED:

4. JACK INSERTS AND PATCH CABLES TO BE THE SAME COLOR.

5. VOICE AND DATA CABLES SHALL BE SEPARATED ON DIFFERENT PATCH PANELS IN THE RACK LOCATED IN THE IT ROOM.

E. NETWORK CONNECTIVITY/TRANSPORT

1. PROVIDE PLENUM RATED RISER CABLING RUN IN RACEWAY TERMINATED ON 66M AND/OR RJ21X HARDWARE IN THE IT ROOM FROM THE BUILDING TELEPHONE POINT OF ENTRY/DEMARK (POE/DEMARK).

F. LABELING

1. PROVIDE EACH CABLE INSTALLED WITH A UNIQUE LABEL. THE CONTRACTOR WILL USE THE ROOM NUMBER AS THE UNIQUE LABEL FOR EACH CABLE. IN THE EVENT THAT A ROOM HAS MORE THAN ONE CABLE TERMINATING IN IT, THE CONTRACTOR SHALL LABEL ALL CABLES WITH THAT ROOM NUMBER FOLLOWED BY LETTERS OF THE ALPHABET. FOR EXAMPLE, IF ROOM 210 HAS TWO QUAD (2 VOICE/2 DATA) WALL PLATES IN IT, THE UNIQUE LABELS FOR THE CABLES IN THE FIRST WALL PLATE WILL BE 210A-V1, 210A-V2, 210A-D1, 210A-D2 RESPECTIVELY. THE UNIQUE LABELS FOR THE CABLES IN THE SECOND WALL PLATE WILL BE 210B-V1, 210B-V2, 210B-D1, 210B-D2 RESPECTIVELY. PROVIDE IDENTICAL CABLE DESIGNATION LABELING AT THE RESPECTIVE IT ROOM PATCH PANEL.

2. PROVIDE MACHINE-GENERATED LABELS. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.

3. PATCH PANELS – LABEL THE FRONT OF EACH PATCH PANEL INDICATING EACH CABLE INSTALLED ON THE PATCH PANEL.

4. WALL PLATES – LABEL EACH WALL PLATE INDICATING ALL CABLES TERMINATED AT THAT LOCATION. FOR EXAMPLE, IF ROOM 210 HAS VOICE AND DATA JACKS IN THE SECOND WALL PLATE, THE LABEL FOR THAT WALL PLATE SHALL BE V0210B. THE LABELS USED FOR WALL PLATES SHALL CONSIST OF BLACK LETTERING WITH A WHITE OR CLEAR BACKGROUND. SEE IT/DATA/COMMUNICATIONS JACK DETAIL FOR CLARIFICATION.

5. CABLES – ALL CABLES WILL BE FITTED WITH MACHINE-GENERATED LABELS AT EACH END IN THE EVENT THAT A CABLE IS PULLED AWAY FROM A PATCH PANEL OR WALL PLATE. THE LABEL INSTALLED AT THE PATCH PANEL END SHALL BE WITHIN ONE INCH OF TERMINATION AND SHOULD REFLECT THE UNIQUE CABLE IDENTIFIER. PLEASE REFER TO SEE IT/DATA/COMMUNICATIONS JACK DETAIL FOR CLARIFICATION. THE LABEL INSTALLED ON THE CABLE AT THE REMOTE END WILL BE WITHIN 4 INCHES OF TERMINATION.

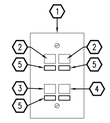
6. PRIOR TO LABELING, SUBMIT SAMPLES OF MACHINE GENERATED LABELS TO BE USED ON THIS INSTALLATION.

G. GROUNDING

1. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING GROUNDING EQUIPMENT;

2. PROVIDE GROUND BUSS BAR MOUNTED TO THE WALL OF EAACH IT ROOM NEAR THE CEILING WHERE THE CABLES FROM ENTER THE ROOM. GROUND BUSS SHALL BE BONDED TO BUILDING STEEL.

3. ALL CABINETS INSTALLED IN THE IT ROOM SHALL BE ELECTRICALLY BONDED TO THE GROUND BUSS USING #6 AWG GREEN INSULATED TELCOFLEX COPPER CONDUCTOR.



TYPICAL FOR SYMBOLS " ▽ "

1. FOUR POSITION SINGLE GANG DEVICE PLATE.
2. BLUE RJ45 JACK FOR DATA.
3. WHITE RJ45 JACK FOR VOICE.
4. WHITE BLANK COVER FOR UNUSED POSITION(S).
5. IDENTIFICATION LABEL FOR SPECIFIC JACK. PRINTED LABEL WITH TEXT DESIGNATION AS DIRECTED BY THE TENANT. TEXT COLOR TO MATCH JACK COLOR DESIGNATION (USE BLACK TEXT FOR WHITE).

1 IT/DATA/COMMUNICATIONS JACK DETAIL

SCALE: NO SCALE

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ADDITION AND ALTERATIONS

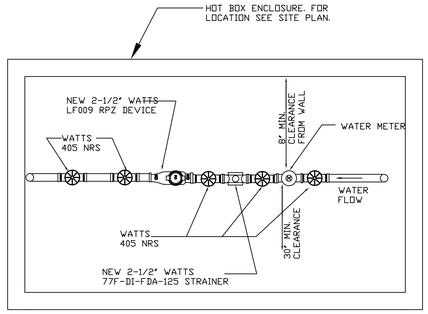
26 ORANGEBURG RD
ORANGEBURG, NEW YORK 10962

IT/DATA SPECIFICATIONS AND DETAILS

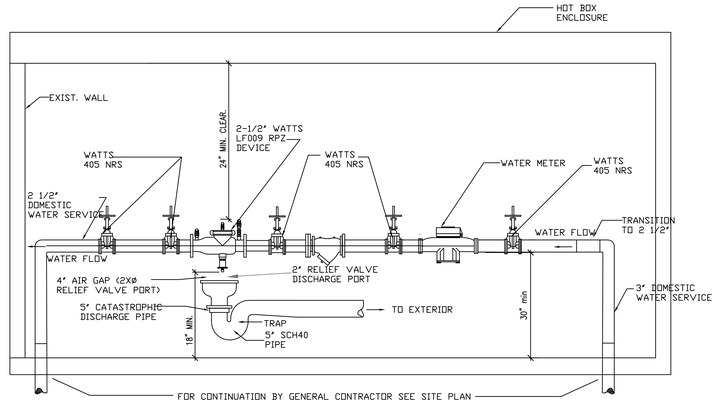
PROJECT NO.: 2219-05

DRAWING NO.:

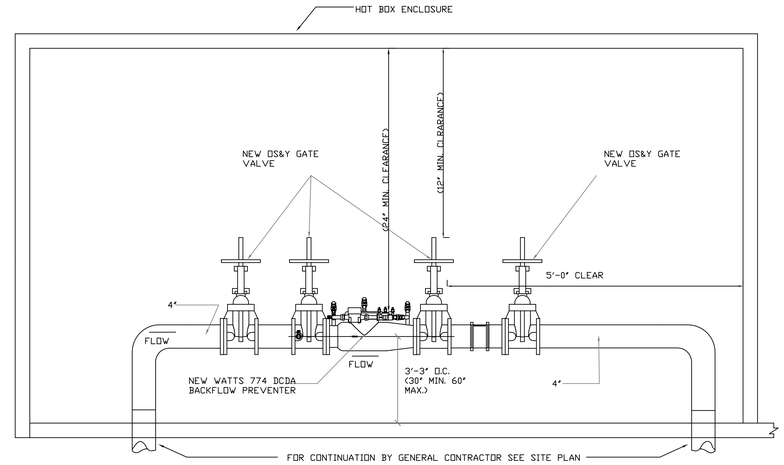
E-307



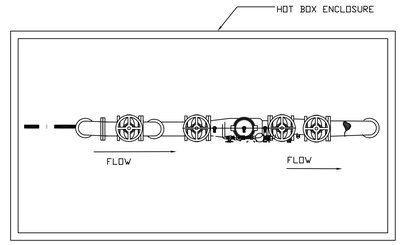
1 RPZ PLAN
SCALE: NOT TO SCALE



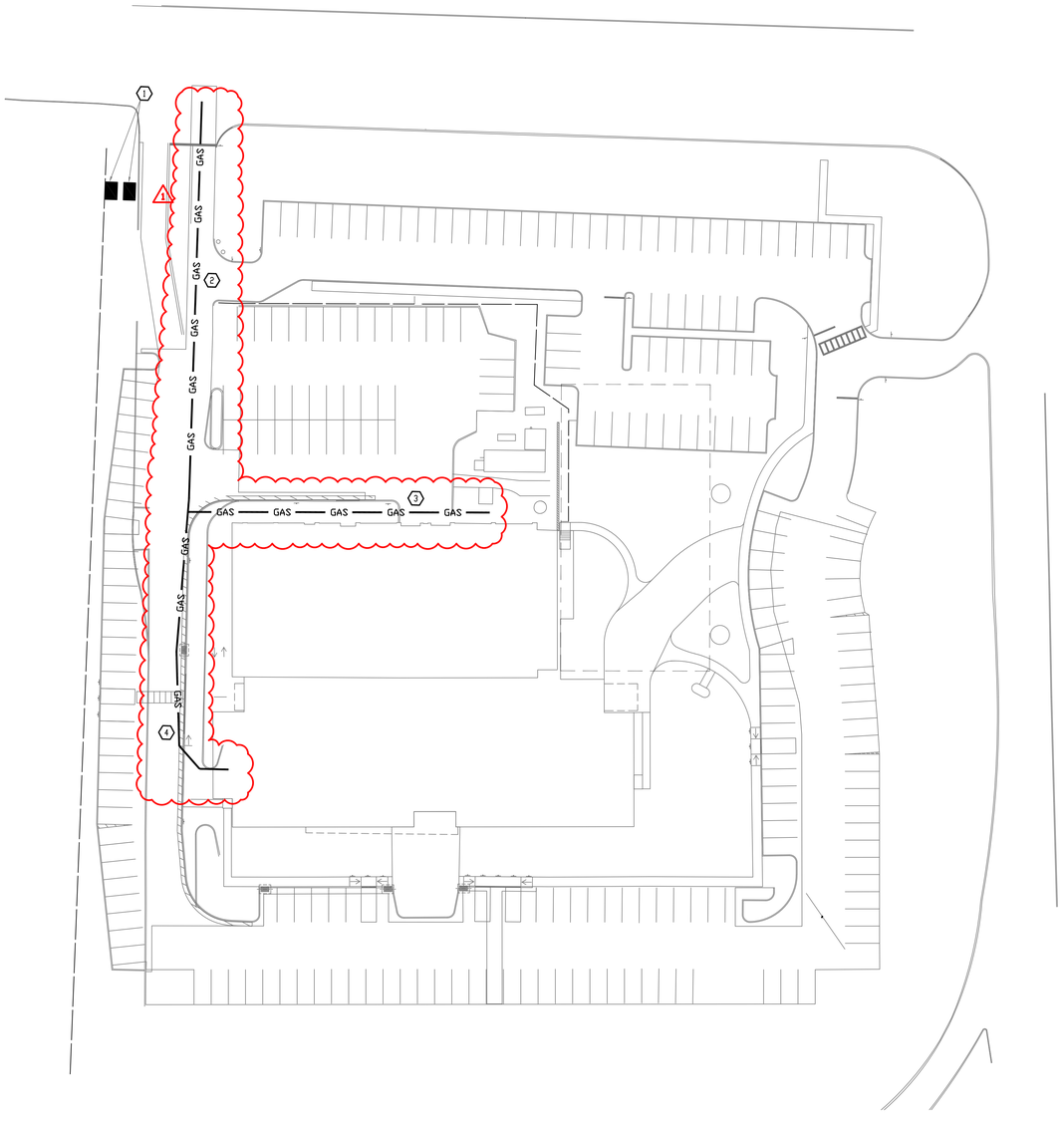
2 RPZ ELEVATION
SCALE: NOT TO SCALE



3 DOUBLE CHECK VALVE ELEVATION
SCALE: NOT TO SCALE



4 DOUBLE CHECK VALVE PART PLAN
SCALE: NOT TO SCALE



5 SITE PLAN
SCALE: 1/32"=1'-0"

NOTES

1. APPROXIMATE LOCATION OF DOUBLE CHECK VALVE AND RPZ ON SITE. FOR ACTUAL LOCATION SEE SITE PLAN.
2. NEW 2" GAS PIPING IN TRENCH PROVIDED UNDER THE GENERAL CONSTRUCTION WORK. COORDINATE CONNECTION TO NEW GAS SERVICE WITH UTILITY COMPANY.
3. CONNECT NEW GAS PIPING TO EXISTING METER STATIONS FOR AT&T AND VERIZON GENERATORS.
4. NEW GAS SERVICE INTO BUILDING.

1

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SITE PLAN, BACKFLOW PIPING AND NOTES

PROJECT NO.: 2219-05

DRAWING NO.:

P-206