

**HAMDEN HIGH SCHOOL 2018 IMPROVEMENTS TO THE POOL  
2040 DIXWELL AVENUE  
HAMDEN, CT 06514**

S/P+A PROJECT NO. 18.048

**REBID NO. 2**

**DATE: February 11, 2019**

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum No. 4.

**General Information/Clarifications: NOT APPLICABLE**

**New Specifications: NOT APPLICABLE**

**Changes to the Specifications:**

- Delete in its entirety: Specification Section 012300 “Alternates”.

Add: Revised Specification Section 012300 “Alternates”, attached as part of this Addendum.  
(2 pages)

**New Drawings: NOT APPLICABLE**

**Changes to the Drawings:**

- Delete in its entirety: Drawing E-3.

Add: Revised Drawing E-3, dated February 11, 2019, attached as part of this Addendum. (1 page)

**The bid due dates are unchanged by this Addendum.**

The Addendum consists of three (3) pages of 8½” x 11” text, and one (1) page of 30” x 42” drawings.

End of Rebid No. 2 Addendum #4

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
  - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract. No extensions of time shall be granted for accepted alternates.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

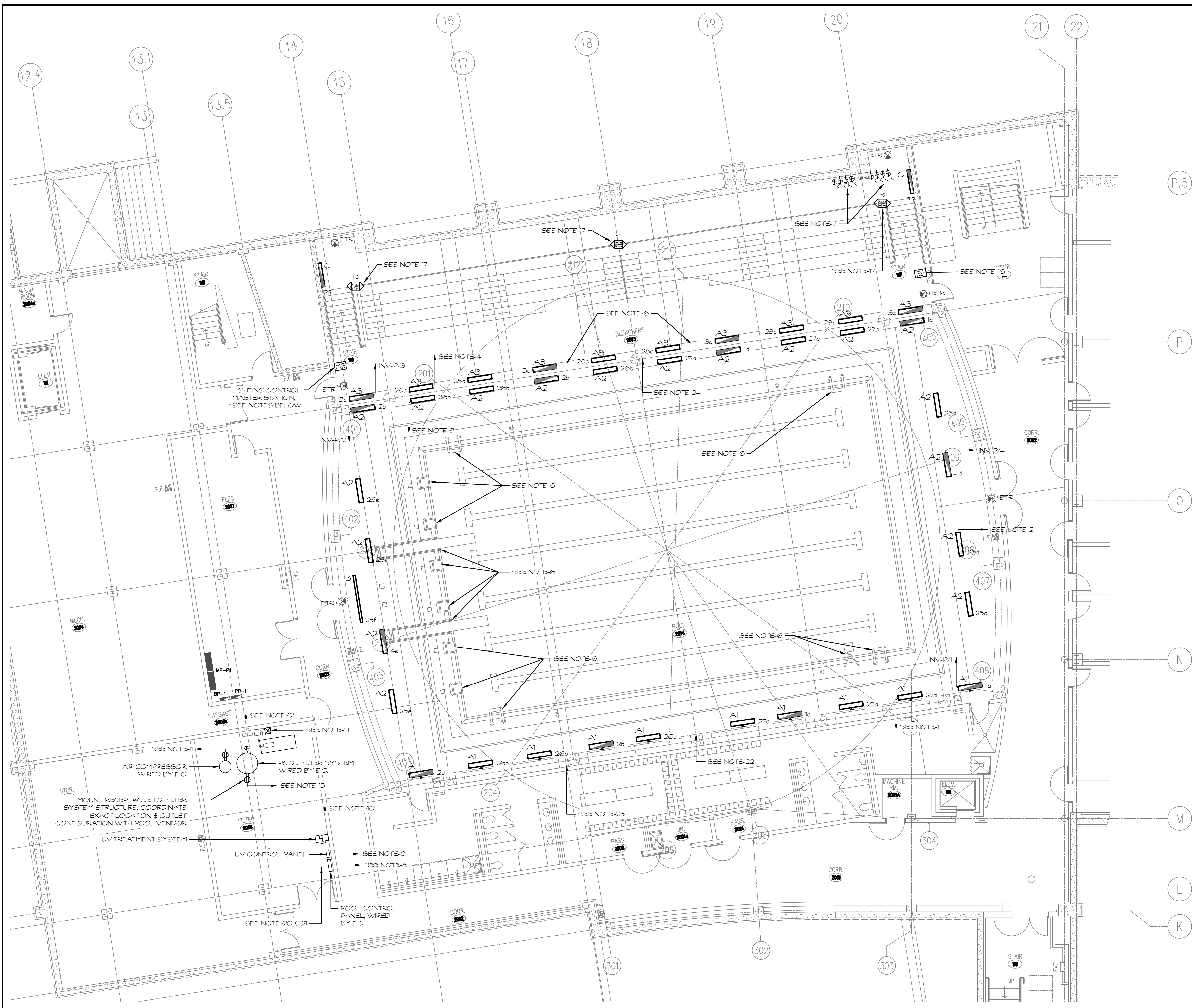
PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. **ADD ALTERNATE NO. 1: Telescoping Bleachers:** Add to the Base Bid the labor, materials and equipment to provide Telescoping Bleachers, and all associated components, where indicated on Drawings and in Specification Section 126600 “Telescoping Stands”, and all associated Specification Sections.
- B. **ADD ALTERNATE NO. 2: Complete Plaster Replacement:** Add to the Base Bid the labor, materials and equipment to provide Complete Plaster replacement, and all associated components, for all surfaces NOT indicated on Drawings and in Specification Section 131155 “Swimming Pool Plaster and Pool Accessories”, and all associated Specification Sections.
- C. **ADD ALTERNATES NO. 3, 4 and 5 from prior bids have been incorporated into the current Base Bid for Bid No. 2867.**
- D. **ADD ALTERNATE NO. 6: Acoustical Ceiling Panels:** Add to the Base Bid the labor, materials and equipment to provide Acoustical Panel Ceilings, and all associated components, where indicated on Drawings and in Specification Section 095113 “Acoustical Panel Ceilings”, and all associated Specification Sections. **Base Bid:** Existing Acoustical Ceiling Panels to remain. Cover and mask-off existing acoustical ceiling panels prior to painting ceiling, as indicated on Drawings and in Specifications.

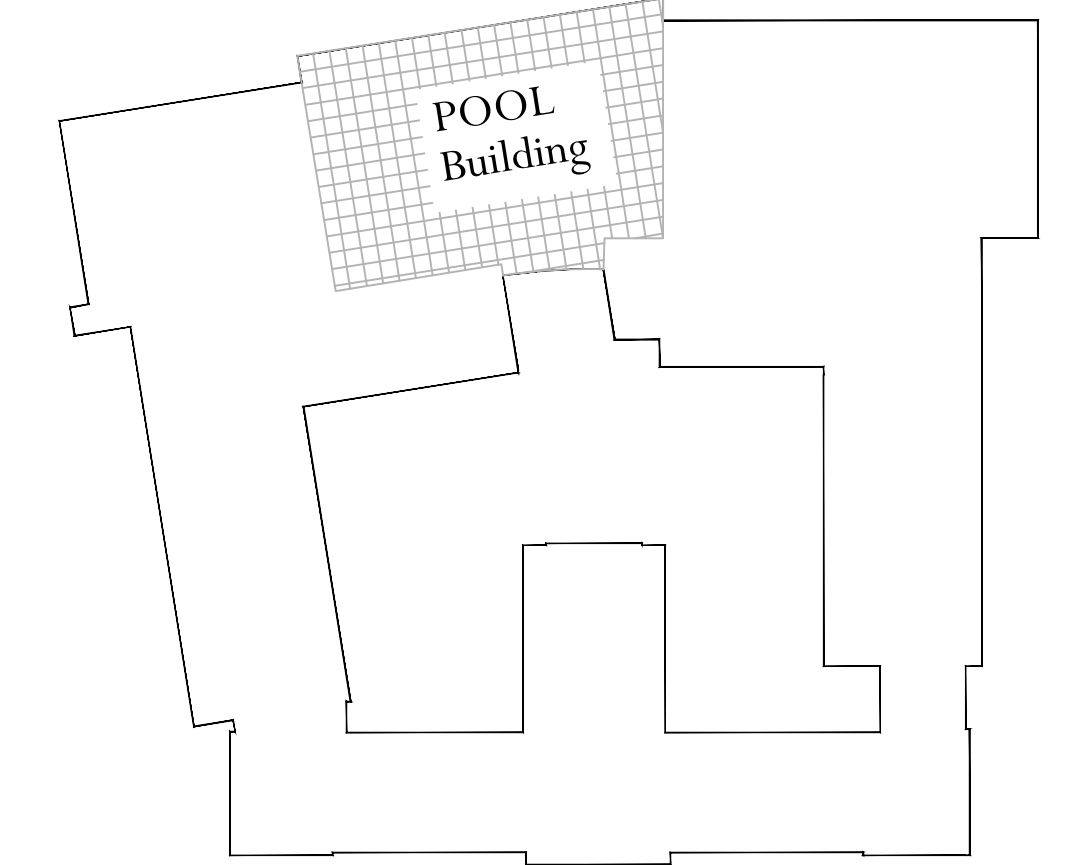
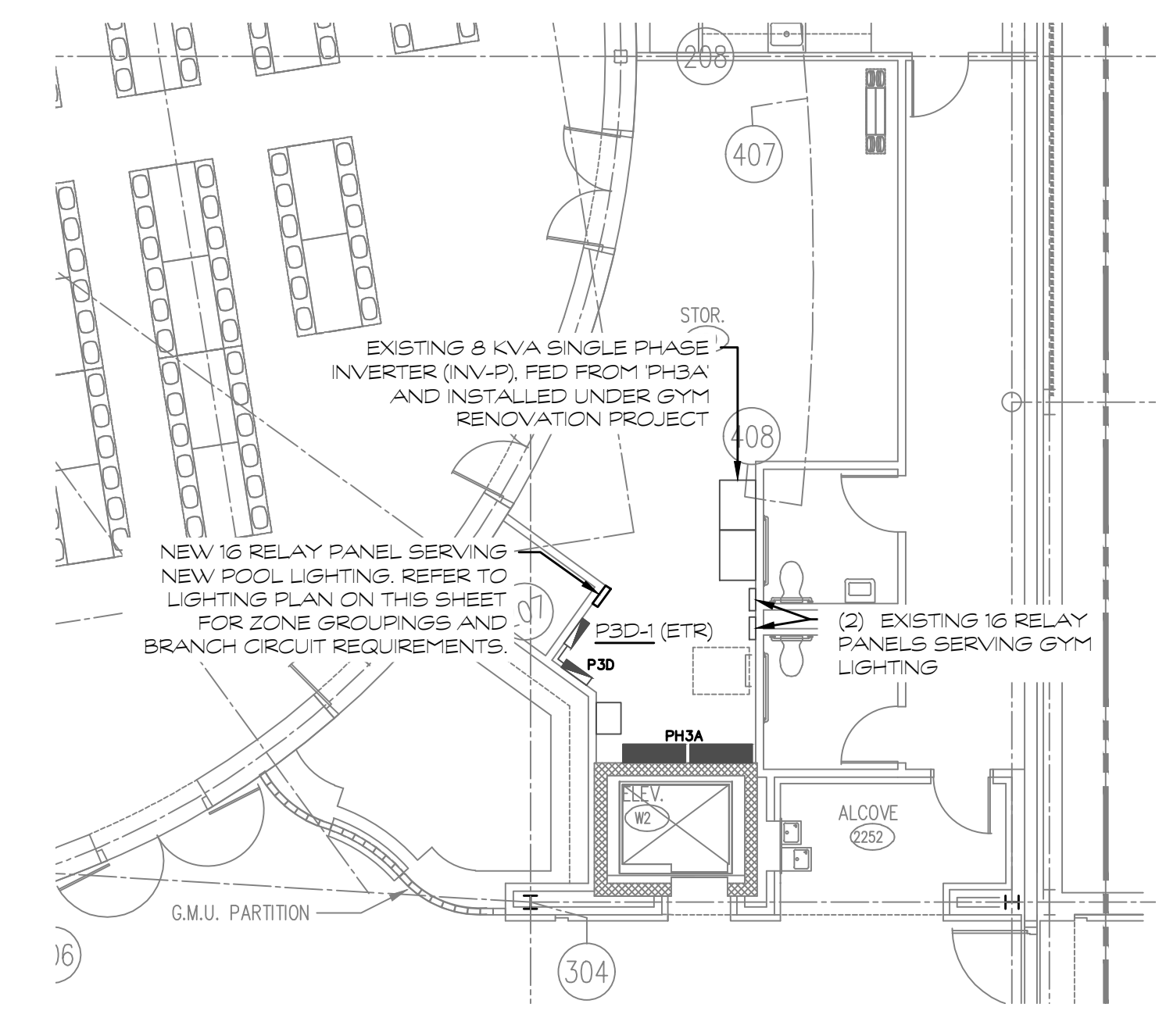
END OF SECTION 012300



- ### GENERAL NOTES
1. CONTRACTOR SHALL WIRE NEW LIGHT FIXTURES FROM EXISTING BRANCH CIRCUIT (PH3A/27) PREVIOUSLY SERVING WALL MOUNTED LIGHTS IN THIS AREA. CONTRACTOR SHALL CONFIRM THE ACTUAL PANEL AND CIRCUIT NUMBER IN THE FIELD.
  2. CONTRACTOR SHALL WIRE NEW LIGHT FIXTURES FROM EXISTING BRANCH CIRCUIT (PH3A/28) PREVIOUSLY SERVING PENDANT MOUNTED LIGHTS IN THIS AREA. CONTRACTOR SHALL CONFIRM THE ACTUAL PANEL AND CIRCUIT NUMBER IN THE FIELD.
  3. CONTRACTOR SHALL WIRE NEW LIGHT FIXTURES FROM EXISTING BRANCH CIRCUIT (PH3A/26) PREVIOUSLY SERVING PENDANT MOUNTED LIGHTS IN THIS AREA. CONTRACTOR SHALL CONFIRM THE ACTUAL PANEL AND CIRCUIT NUMBER IN THE FIELD.
  4. CONTRACTOR SHALL WIRE NEW LIGHT FIXTURES FROM EXISTING BRANCH CIRCUIT (PH3A/25) PREVIOUSLY SERVING PENDANT MOUNTED LIGHTS AT THE NORTH END OF THIS BEAM. CONTRACTOR SHALL CONFIRM THE ACTUAL PANEL AND CIRCUIT NUMBER IN THE FIELD.
  5. CONTRACTOR SHALL MOUNT THE BOTTOM OF ALL TYPE 'A1', 'A2' & 'A3' FIXTURES 15'-6" ABOVE THE POOL DECK. ALL FIXTURES WILL NEED TO HAVE FINAL ADJUSTMENTS MADE WITH OWNER AND ARCHITECT AFTER HOURLY WHEN THERE IS NO OUTSIDE LIGHT CONTROL PANEL.
  6. CONTRACTOR SHALL HIRE A CERTIFIED TESTING COMPANY (NORTHEAST TESTING OR EQUAL) TO TEST ALL THE EXPOSED METAL COMPONENTS (LADDERS, STARTING BLOCKS, DIVING BOARDS, RAILINGS, BASKETBALL HOOP SUPPORTS, ETC.) TO DETERMINE IF THEY MEET THE BONDING REQUIREMENTS PER NEG. AT THE TIME THE POOL WAS PERMITTED. CONTRACTOR SHALL SUBMIT A WRITTEN DESCRIPTION ON HOW THEY INTEND TO TEST THE METAL COMPONENTS FOR APPROVAL TO THE ELECTRICAL INSPECTOR PRIOR TO THE START OF TESTING. UPON COMPLETION OF TESTING CONTRACTOR SHALL PROVIDE A LIST OF ITEMS THAT DO NOT MEET THE BONDING REQUIREMENTS WITH AN ESTIMATE OF PRESUMED COST TO REPAIR EACH DEFICIENT ITEM TO THE OWNER/ENGINEER FOR REVIEW. CONTRACTOR SHALL CARRY A \$25,000 ALLOWANCE TO FIX ALL COMPONENTS THAT DO NOT MEET THE BONDING REQUIREMENTS. THIS ALLOWANCE MAY NOT COVER REPAIRING ALL COMPONENTS THAT NEED TO BE FIXED. IF THE ENTIRE ALLOWANCE IS NOT REQUIRED THE BALANCE WILL BE RETURNED TO THE OWNER.
  7. CONTRACTOR SHALL FURNISH AND INSTALL A NEW 4-GANG BOX (PVC) TO INSTALL THREE NEW KEY SWITCHES AND REINSTALL ONE EXISTING KEY SWITCH. CONTRACTOR SHALL WIRE EACH SHADE MOTOR RELAY TO AN INDIVIDUAL KEY SWITCH, SO AS EACH KEY SWITCH ONLY CONTROLS ONE SHADE. ALSO CONTRACTOR SHALL CONFIRM ALL RELAYS ARE WORKING PROPERLY AND MAKE SURE THEY ARE PROPERLY MOUNTED WITHIN THE JUNCTION BOX (LOCATED BELOW SWITCHES).
  8. CONTRACTOR SHALL CONNECT EXISTING BRANCH CIRCUIT (PP-1/3) REMOVED DURING THE DEMOLITION PHASE AND LEFT IN THIS AREA TO NEW POOL CONTROL PANEL.
  9. CONTRACTOR SHALL INSTALL A NEW 20A-1P CIRCUIT BREAKER IN PANEL BP-1 TO SERVE NEW LV CONTROL PANEL RUN 3 #12 FROM PANEL BP-1 TO CONTROL PANEL IN 1/2" CONDUIT. COORDINATE EXACT LOCATION OF PANEL WITH POOL CONTRACTOR.
  10. CONTRACTOR SHALL INSTALL A NEW 20A-3P CIRCUIT BREAKER IN PANEL MP-21 (LEFT SIDE) TO SERVE NEW LV IN-LINE LAMP SYSTEM. RUN 4 #12 - #12S IN 1/2" C. FROM PANEL MP-21 TO LV DEVICE. COORDINATE EXACT LOCATION OF LAMP WITH POOL CONTRACTOR.
  11. CONTRACTOR SHALL INSTALL A NEW 20A-1P CIRCUIT BREAKER IN EXISTING SPACE IN PANEL PPT (H18) TO SERVE NEW POOL SYSTEM AIR COMPRESSOR. COORDINATE EXACT LOCATION AND ELECTRICAL CONFIGURATION (RECEPTACLE VS. HARDWARE) WITH APPROVED POOL MANUFACTURER SUBMITTAL.
  12. CONTRACTOR SHALL INSTALL A NEW 20A-1P CIRCUIT BREAKER IN EXISTING SPACE IN PANEL PPT (H23) TO SERVE NEW POOL FILTER SYSTEM CONTROLLER. THE CONTROLLER IS INTEGRAL TO THE FILTER. COORDINATE EXACT LOCATION WITH POOL VENDOR AND APPROVED SUBMITTAL.
  13. CONTRACTOR SHALL INSTALL A NEW 20A-1P CIRCUIT BREAKER IN EXISTING SPACE IN PANEL PPT (H24) TO SERVE NEW VACUUM SYSTEM MOUNTED TO FILTER SYSTEM. COORDINATE EXACT LOCATION WITH POOL VENDOR AND APPROVED SUBMITTAL.
  14. CONTRACTOR SHALL INTERCEPT THE EXISTING BRANCH CIRCUIT (MP-21/8/10/12) CURRENTLY FEEDING POOL PUMP MOTOR IN FRONT OF EXISTING DISCONNECT SWITCH AND FURNISH AND INSTALL A NEW SIZE 2 STARTER. INSTALL CONTROL WIRING FROM STARTER TO NEW POOL CONTROLLER. COORDINATE WIRING REQUIREMENTS WITH POOL VENDOR AND APPROVED SUBMITTAL.
  15. CONTRACTOR SHALL FURNISH AND INSTALL A UL 924 BY-PASS RELAY ON EACH CONTROL CIRCUIT THAT HAS BOTH NORMAL AND EMERGENCY CIRCUITS ON IT (4 REQUIRED). SWITCH LESS 2.5" x 4" x 4". COORDINATE LOCATION OF RELAYS WITH OWNER TO ALLOW FOR CIRCUITS TO BE EASILY TESTED.
  16. LIGHTING CONTROL REMOTE ENTRY STATION, REFER TO LIGHTING CONTROL NOTES BELOW.
  17. CONTRACTOR SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSORS TO CONTROL THE LIGHTS SERVING THE BLEACHERS/WIRING AREA (SWITCH LEGS '1') THE SENSORS WILL PROVIDE NORMAL ON/OFF CONTROL WITH THE KEY SWITCH PROVIDING A LOCAL MANUAL OFF DEVICE.
  18. CONTRACTOR SHALL UPDATE ALL PANEL BOARD DIRECTORIES (TYPED OUT) EFFECTED AS PART OF THIS PROJECT.
  19. ALL NEW EXPOSED CONDUIT AND FITTINGS INSTALLED IN THE POOL #204 AND FILTER #205 ROOMS SHALL BE RGS, PAINTED TO MATCH WALLS/CEILING. ALL OTHER CONDUIT REQUIREMENTS, REFER TO SPECIFICATIONS.
  20. CONTRACTOR SHALL FURNISH AND INSTALL A NETWORK CONNECTION (CAT 5e/6) FROM LOCAL IT CLOSET (FIRST FLOOR WEST BLDG.) ROOM #1205 ACROSS FROM ASSISTANT PRINCIPAL ROOM #2105. APPROXIMATELY 200 FEET. CONTRACTOR TO CONFIRM ROUTE DOES NOT EXCEED 300 FEET. IF SO CONTRACTOR SHALL FURNISH AND INSTALL A FIBER OPTIC CONNECTION IN LIEU OF CAT 5e/6. TERMINATE IN CONTROL PANEL(S). COORDINATE WITH APPROVED MANUFACTURER.
  21. CONTRACTOR SHALL CONFIRM ALL ELECTRICAL CONNECTIONS WITH APPROVED POOL EQUIPMENT AND MAKE ALL NECESSARY CHANGES AT NO COST TO OWNER.
  22. CONTRACTOR SHALL PERMANENTLY MOUNT THE DUPLEX AND QUAD RECEPTACLES CURRENTLY TIE WRAPPED TO THE UNISTRUT ON THE SIDE OF THE EXISTING SCOREBOARD TO THE WALL OR UNISTRUT. THEN INSTALL NEW PVC CONDUIT FROM THE EXISTING JUNCTION/PULL BOX ADJACENT TO THE COLUMN UP TO THE TWO RECEPTACLES. ALSO INSTALL A TOGGLE SWITCH WITH WEATHERPROOF IN-USE COVER (MATCH THE GLOBE SWITCHES) TO CONTROL POWER TO RECEPTACLES. MOUNT TOP OF SWITCH BOX AT 48" AFF AND EXTEND EXISTING BRANCH CIRCUIT WIRING IN JUNCTION/PULL BOX UP TO RECEPTACLES.
  23. CONTRACTOR SHALL RECONNECT/REPAIR EXISTING PVC CONDUIT ADJACENT TO JUNCTION/PULL BOX EXPOSING BRANCH CIRCUIT WIRING.
  24. CONTRACTOR SHALL RECONNECT/REPAIR EXISTING PVC CONDUIT ADJACENT TO JUNCTION/PULL BOX EXPOSING BRANCH CIRCUIT WIRING AND PERMANENTLY MOUNT JUNCTION/PULL BOX TO COLUMN.

### POOL LIGHTING CONTROL REQUIREMENTS

CONTRACTOR SHALL INSTALL A COMPLETE DIMMING SYSTEM. SYSTEM SHALL INCLUDE THE FOLLOWING: ONE ON/OFF ENTRY STATION (ABL-LIGHT #INROOM 158 WH OR EQUAL) LOCATED AT THE NORTH SIDE CORRIDOR ENTRANCE WHERE THE OLD KEY SWITCHES WERE INSTALLED. ONE 16 ZONE RELAY PANEL, NORTH 1/2" EMERGENCY (ABL-LIGHT #RAMP INTERVOLS NLT 158R #VOLT 2VB SC 5M) LOCATED IN THE STORAGE CLOSET OFF THE CAFETERIA OPPOSITE THE INVERTER INSTALLED UNDER THE GYM PROJECT. ONE 7 TOUCH SCREEN MASTER CONTROLLER (ABL-FRESCO #FCS 175N DSL OR EQUAL) LOCATED AT THE SOUTH CORRIDOR ENTRANCE WHERE THE OLD KEY SWITCHES WERE INSTALLED AND A PROGRAMMING TOOL (ABL-LIGHT #INCHKIT OR EQUAL) WITH SYSTEM STARTUP FROM MANUFACTURER. ALSO ALL CEILING MOUNTED OCCUPANCY SENSORS NEED TO BE COMPATIBLE WITH THE DIMMING SYSTEM (ABL-LIGHT #NCH1 6 RJB OR EQUAL). CONTRACTOR SHALL FURNISH AND INSTALL A GASKETED LOCKABLE CABINET FOR THE ENTRY STATION AND THE MASTER CONTROLLER. THE COVERS/CABINETS SHALL BE LESS THAN 4" DEEP TO MEET ADA. IF CABINETS ARE DEEPER THAN 4", CONTRACTOR SHALL SEMI-RECESS THEM IN THE EXISTING BLOCK WALL. CABINETS SHALL BE PAINTED TO MATCH THE WALLS.



**LOWER LEVEL PLAN (POOL)**  
SCALE: 1/8"=1'-0"  
PROJECT NORTH

**KEY PLAN**  
NTS  
NORTH

Project Title:  
H.H.S. 2018 - 2019 Improvements to the Pool  
Town of Hamden, Hamden Board of Education  
Hamden High School  
2040 Dixwell Avenue  
Hamden, CT 06514



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Revision	Description	Date	Revised By
1	Addendum #4	2.11.19	SEC

Drawing Title:  
**Lower Level Plan (Pool) - Electrical**  
Date:  
JANUARY 14, 2019  
Scale:  
1/8" = 1'-0"  
Drawn By:  
SEC  
Project Number:  
18-048  
Drawing Number:  
**E3**