



**Bid 643**  
**New HVAC Modernization Project for Rio Mesa High School**

**BID CLARIFICATION ADDENDUM #1**

Dated: December 30, 2020

*All interested parties seeking to submit responses to the Oxnard Union High School District's Bid #638 shall execute the certification at the end of this addendum and shall attach the addendum to the documents submitted to the District.*

---

**The Oxnard Union High School District hereby amends Bid 643 New HVAC Modernization Project for Rio Mesa High School as follows:**

- 1) **Question: Where will the temporary power be pulled from?**  
**Answer:** Temp. power can be pulled from existing panels
  
- 2) Please refer to **Attachment A** for Pre-Bid RFIs from Viola
  
- 3) Please refer to **Attachment B** for Architect's addendum 1
  
- 4) INSTRUCTIONS TO BIDDERS, ITEM 41, ALLOWANCES, Document 00 72 13-xxv.  
Allowance value shall be \$800,000 "IN LIEU OF" \$500,000 as shown below:

**Allowances:** The Contractor (General Contractor) shall provide and incorporate an "Allowance" of \$800,000.00 (Eight Hundred Thousand US Dollars) into the base bid value submitted. This Allowance is for future and/or unforeseen conditions encountered during the contract duration.

**Note:** The Allowance shall be included/added in the Contract Base Bid Value of the General Contractor's proposal.

This value (\$800,000.00) will be designated as a line item within the contractor's schedule of values ("SOV"). The District shall have sole discretion to authorize all expenditures from the Allowance. The District shall issue directives to be used against the Allowance in the form of a Price Request ("PR"). All pricing in response to ("PR") for additional or unforeseen work shall include the direct cost of labor, materials, equipment, transportation, design fees, applicable markup, overall management and general condition costs, overhead and profit, taxes and insurance associated with ("Price Request"). Any unused Allowance or unused portion thereof shall be credited back to the District at the conclusion of work.

**BIDDER'S CERTIFICATION**

**I acknowledge receipt of the foregoing Addendum # 1 and accept all conditions contained herein.**

**Dated:** \_\_\_\_\_ **BIDDER:** \_\_\_\_\_  
(company/entity)

**By:** \_\_\_\_\_ **Printed Name:** \_\_\_\_\_  
(authorized representative signature)

**Title:** \_\_\_\_\_

*Bid Clarification Addendum #1*

**Attachment A**

**Viola RFIs**

**RFI BID CLARIFICATION REQUEST**

**RFI #** 001

**REQUESTED BY:** Tim Viola

**DATE:** 12/17/2020

**PROJECT NAME:** Bid 643 New HVAC Modernization for Rio Mesa High

**Spec #:** 26 05 00

**SUBMITTED TO:** Oxnard Union High School District

**PGS:** 1

**ATTENTION:** Arvind Balaji & Karl Aldridge

**EMAIL:** [abalaji@bernards.com](mailto:abalaji@bernards.com),  
[kaldridge@bernards.com](mailto:kaldridge@bernards.com)

**FAX:**

**YOUR RESPONSE TO THE FOLLOWING BID CLARIFICATION REQUEST IS REQUIRED BY ASAP**

An electrical contractor submitted the following questions:

1. Please clarify if panel NA is existing to remain or is being replaced.
2. Please clarify scope for Panel HVAC-J. It is not shown on the single line or building plan but is shown as new in the panel schedules.
3. Please clarify scope for panel BP. Panel schedules and building plan show it as new, but the single line shows it as existing to remain.
4. Please clarify scope for panel C1. Panel schedules and building plan show it as new, but it is not shown on the single line.
5. Sheet EB201D is listed on sheet index and the pdf page 326 file has same name, however it appears to be a duplicate of EB-201. Can this missing page please be provided?

Check here if additional pages attached

**PROPOSED SOLUTION**

None currently.

Check here if additional pages attached

*The following information is provided in response to your bid clarification request above. This is not a change order or an approval for extra work*

- 1 - PANEL NA IS BEING REPLACED, FLOOR PLANS ARE CALLING OUT AS REPLACED , I REVISED THE PANEL SCH AS WELL. SEE ATTACHED REVISED E-106D & E-106E. ALSO THE (E)45KVA XMER WILL NEED TO BE PLACED WITH (N)75KVA WITH ALL RELATED FEEDERS REVISED SHEET EN-201 AND E-102A, SEE ATTACHED
- 2 - WE ARE NOT USING HVAC-J ANYMORE, REVISED THE PNL SCH TO REMOVE HVAC-J, SEE ATTACHED REVISED E-106C
- 3 - I BELIEVE YOU MEAN 'PB' AND NOT 'BP' WE DONT HAVE 'BP' SHOWN ON FLOOR PLANS OR PNL SCH, WE ARE REPLACING 'PB', SEE REVISED SINGLE LINE DIAGRAM E102B WITH PB BEING CALLED OUT AS REPLACED
- 4 SHOWN PANEL C1 ON SINGLE LINE, ALSO CHANGED AIC AND SCCR TO 18KA, ALSO ADDED A NOTE IN (E)PC PANEL SCH SEE REVISED E102B, E106A
- 5 - ATTACHED IS EB201D

**By:** BUDLONG & ASSOCIATES, INC

Check here if additional pages attached

**Name:** MANAN CHRISTIAN

**Title:** ELECTRICAL ENGG

**Date:** 2020-12-22

SEE 6/E-105C PRIOR TO BEGINNING OF THE WORK

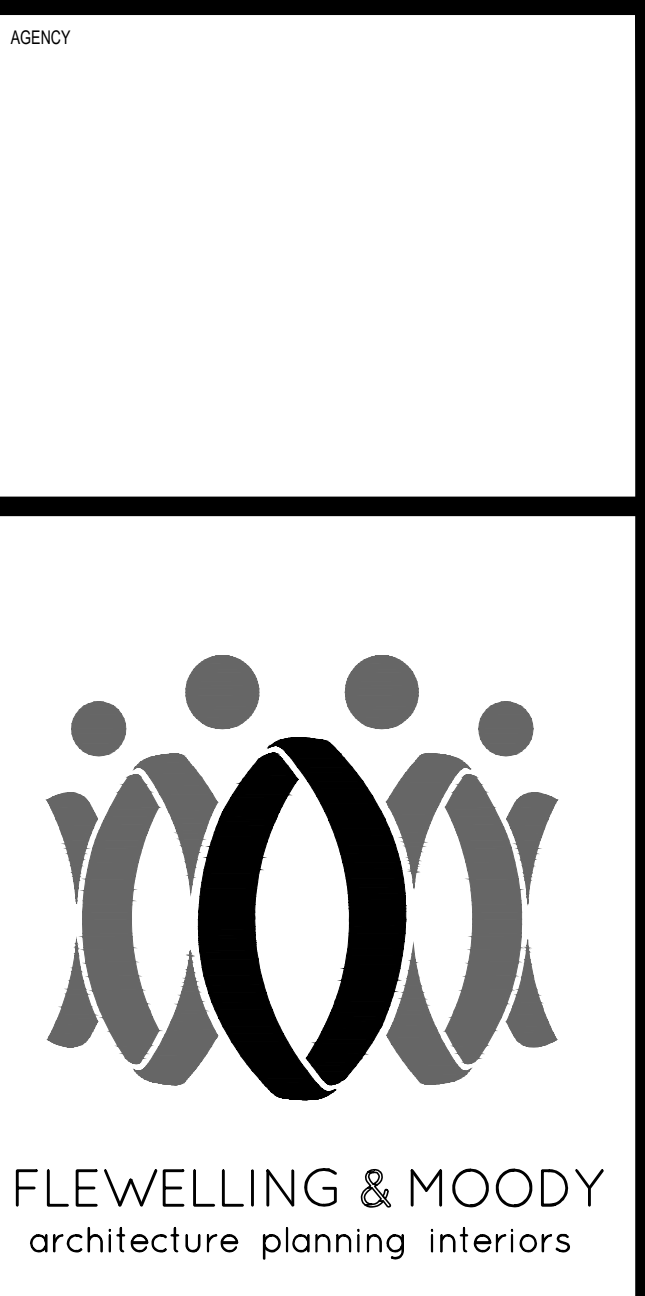
OBJECTS ON LIGHTER LAYER INDICATES NO WORK, OBJECTS ON DARKER LAYER INDICATES NEW WORK

**GENERAL NOTES**

- EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS & SITE-SURVEY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO INSTALLATION OF ANY WORK.
- THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK.
- ALL ITEMS SHOWN ON SINGLE LINE DIAGRAM ARE NEW, UNLESS NOTES AS (E) FOR EXISTING.
- LENGTH OF FEEDERS SHOWN ON SINGLE LINE DIAGRAM ARE NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSE, CONTRACTOR TO VERIFY ACTUAL LENGTH REQUIRED.
- ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
- ALL DEVICES AND TERMINALS SHALL BE RATED FOR 75°C AND SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.
- ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (CEC-250.122), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
- ALL CONDUCTORS SHALL BE COPPER, AS NOTED, TYPE THWN/THHN 75° RATED

**KEY NOTES**

- DEMOLISH (E) FEEDERS.
- DISCONNECT (E) PANEL FOR BUILDING N FROM PANEL M AND SWITCH A (N) CONNECTION DIRECTLY FROM THE MAIN SWITCHBOARD WITH (N) FEEDERS AS SHOWN.
- REPLACE EXISTING TRIP UNIT NEW 400AMP TRIP UNIT 'KT3400T', ADJUST THE MAGNETIC TRIP SETTING OF THE UNIT TO MATCH WITH EXISTING.
- REUSE EXISTING SPARE CONDUITS WHEREVER POSSIBLE TO RUN NEW FEEDER LINES. SEE SITE PLAN FOR ROUTING. PROVIDE ALL CONDUCTORS, CONDUITS, BOXES AND ALL REQUIRED ACCESSORIES FOR A FULLY OPERATIONAL SYSTEM. DEMOLISH EXISTING FEEDER CONDUCTORS, CUT CAP AND ABANDON CONDUIT IN PLACE. LABEL CONDUIT AS SPARE.
- REPLACE (E) CONDUCTORS WITH (N) WITHIN THE (E) CONDUIT
- REPLACE EXISTING PANEL WITH NEW. SEE PANEL SCHEDULE FOR SIZING INFO. PROTECT EXISTING CIRCUITS PRIOR TO DEMOLITION AND RECONNECT EXISTING CIRCUITS TO THE NEW PANEL. RECONNECT NEW GROUNDING ELECTRODE CONDUCTOR TO EXISTING GROUNDING SYSTEM WHEREVER APPLICABLE.
- REPLACE (E) BREAKER WITH (N), BREAKER KAIC RATING TO MATCH THE (E).
- DISCONNECT PANEL FROM (E) FEEDER AND RECONNECT TO (N) FEEDER AS SHOWN. CUT, CAP AND ABANDON (E) FEEDERS IN PLACE. REMOVE CONDUCTORS. LABEL UPSTREAM FEEDER BREAKER LOCATED IN BUILDING 'F' AS SPARE
- DEMOLISH (E) FEEDERS AND REPLACED WITH (N) AS SHOWN
- CONNECT (N) GROUNDING ELECTRODE CONDUCTOR TO (E) GROUNDING SYSTEM
- REPLACE (E) TRANSFORMER WITH (N) IN PLACE



HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.8300  
E-Mail: fm-pastadeno@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247  
SANARLUO OFFICE  
10000 SANARLUO BLVD #100  
SANARLUO, CA 95070  
TEL: 925.865.8000



|            |             |
|------------|-------------|
| Drawn by   |             |
| Checked by |             |
| Revised    |             |
| No.        | Date        |
|            | Description |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared by specific title. Any and all responsibility for their use under a contract on any other site is hereby disclaimed by Flewelling & Moody.

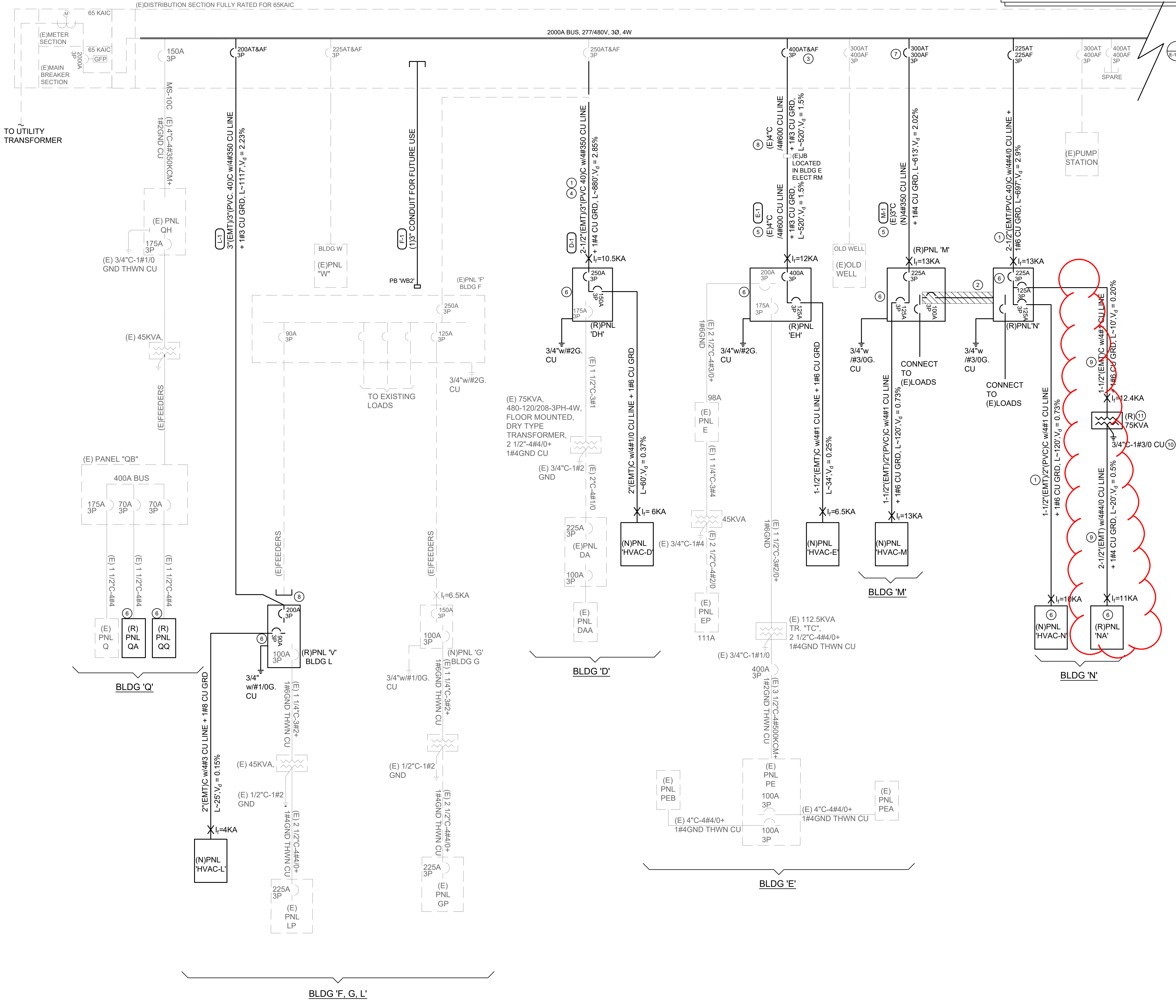
OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

ELECTRICAL SINGLE LINE DIAGRAM

Job No. 2847.0200  
Date 10/23/2020  
**E-102A**

PROVIDED SINGLE LINE DIAGRAM IS ONLY FOR HVAC PROVISION, ANY ADDITIONAL LOADS ARE NOT SHOWN. IT IS CONTRACTORS RESPONSIBILITY TO RECONNECT ANY EXISTING LOADS AFFECTED BY THE WORK

① ELECTRICAL SINGLE LINE DIAGRAM  
SCALE: NTS



1  
2  
3  
4  
5

A B C D E F

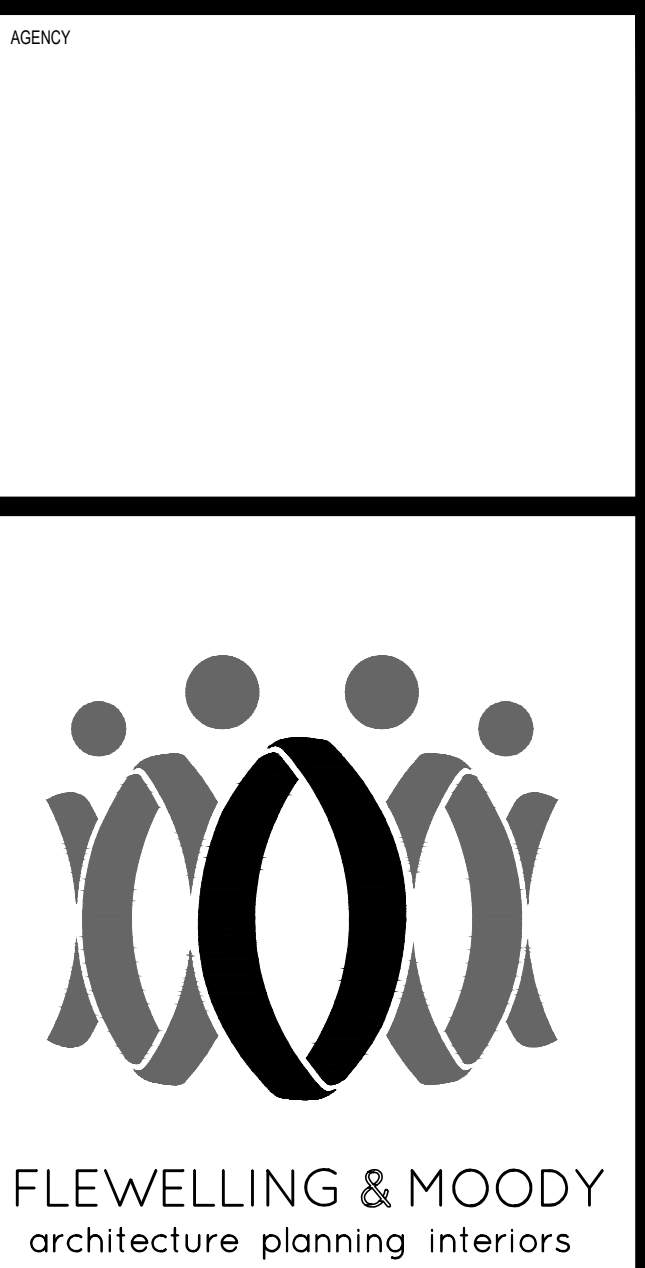
SEE 6/E-105C PRIOR TO BEGINNING OF THE WORK

**GENERAL NOTES**

- EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS & SITE-SURVEY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO INSTALLATION OF ANY WORK.
- THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK.
- ALL ITEMS SHOWN ON SINGLE LINE DIAGRAM ARE NEW, UNLESS NOTES AS (E) FOR EXISTING.
- LENGTH OF FEEDERS SHOWN ON SINGLE LINE DIAGRAM ARE NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSE, CONTRACTOR TO VERIFY ACTUAL LENGTH REQUIRED.
- ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
- ALL DEVICES AND TERMINALS SHALL BE RATED FOR 75°C AND SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.
- ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (CEC-250.122), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
- ALL CONDUCTORS SHALL BE COPPER, AS NOTED, TYPE THWN/THHN 75° RATED

**KEY NOTES**

- DEMOLISH (E) FEEDERS.
- CONTRACTOR TO TRACE AND DEMOLISH FEEDERS FOR BUILDING C, CUT CAP & ABANDON CONDUIT IN PLACE, LABEL THE CONDUIT AS SPARE. RECONNECT THE PANEL AS SHOWN. NEW FEEDER SIZES AS SHOWN.
- REPLACE (E) BREAKER WITH (N), BREAKER KAIC RATING TO MATCH THE (E).
- REUSE EXISTING SPARE CONDUITS WHEREVER POSSIBLE TO RUN NEW FEEDER LINES. SEE SITE PLAN FOR ROUTING. PROVIDE ALL CONDUCTORS, CONDUITS, BOXES AND ALL REQUIRED ACCESSORIES FOR A FULLY OPERATIONAL SYSTEM. DEMOLISH EXISTING FEEDER CONDUCTORS, CUT CAP AND ABANDON CONDUIT IN PLACE. LABEL CONDUIT AS SPARE.
- DEMOLISH EXISTING CIRCUIT BREAKER, MARK AS SPACE.
- REPLACE EXISTING PANEL WITH NEW. SEE PANEL SCHEDULE FOR SIZING INFO. PROTECT EXISTING CIRCUITS PRIOR TO DEMOLITION AND RECONNECT EXISTING CIRCUITS TO THE NEW PANEL. RECONNECT NEW GROUNDING ELECTRODE CONDUCTOR TO EXISTING GROUNDING SYSTEM WHEREVER APPLICABLE.
- REPLACE EXISTING TRIP UNIT NEW 400AMP TRIP UNIT 'K13400T', ADJUST THE MAGNETIC TRIP SETTING OF THE UNIT TO MATCH WITH EXISTING.
- REPLACE (E) CONDUCTORS WITH (N) WITHIN THE (E) CONDUIT.
- (N) EATON MINI POWER CENTER.



HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.5300  
E-Mail: fm-pasadena@flewelling-moody.com

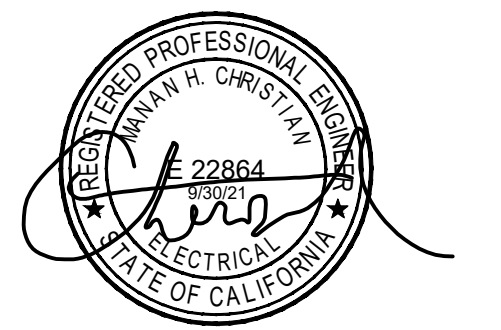
ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 861.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247  
SANARLUO OFFICE  
10000 SANARLUO BLVD  
SANARLUO, CA 94588  
TEL: 925.466.4447  
GLENDALE OFFICE  
10000 GLENDALE BLVD  
GLENDALE, CA 91201  
TEL: 626.998.8800



Drawn by

Checked by

Revisions

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |

All dimensions must be checked on the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared by a qualified P.E. Any work not specifically shown on these plans is to be performed in accordance with the applicable code of practice and the standards of the profession.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

ELECTRICAL SINGLE LINE DIAGRAM

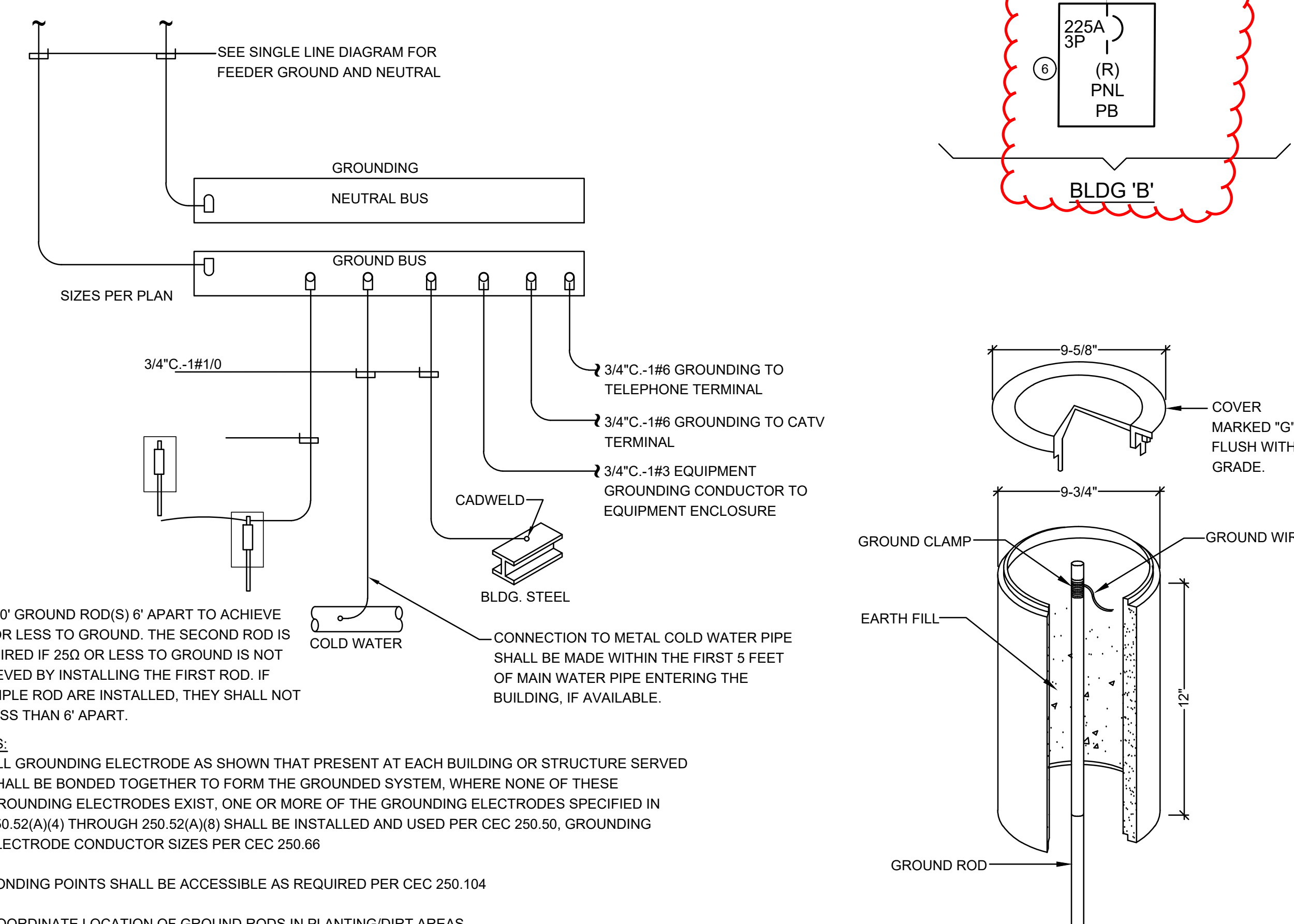
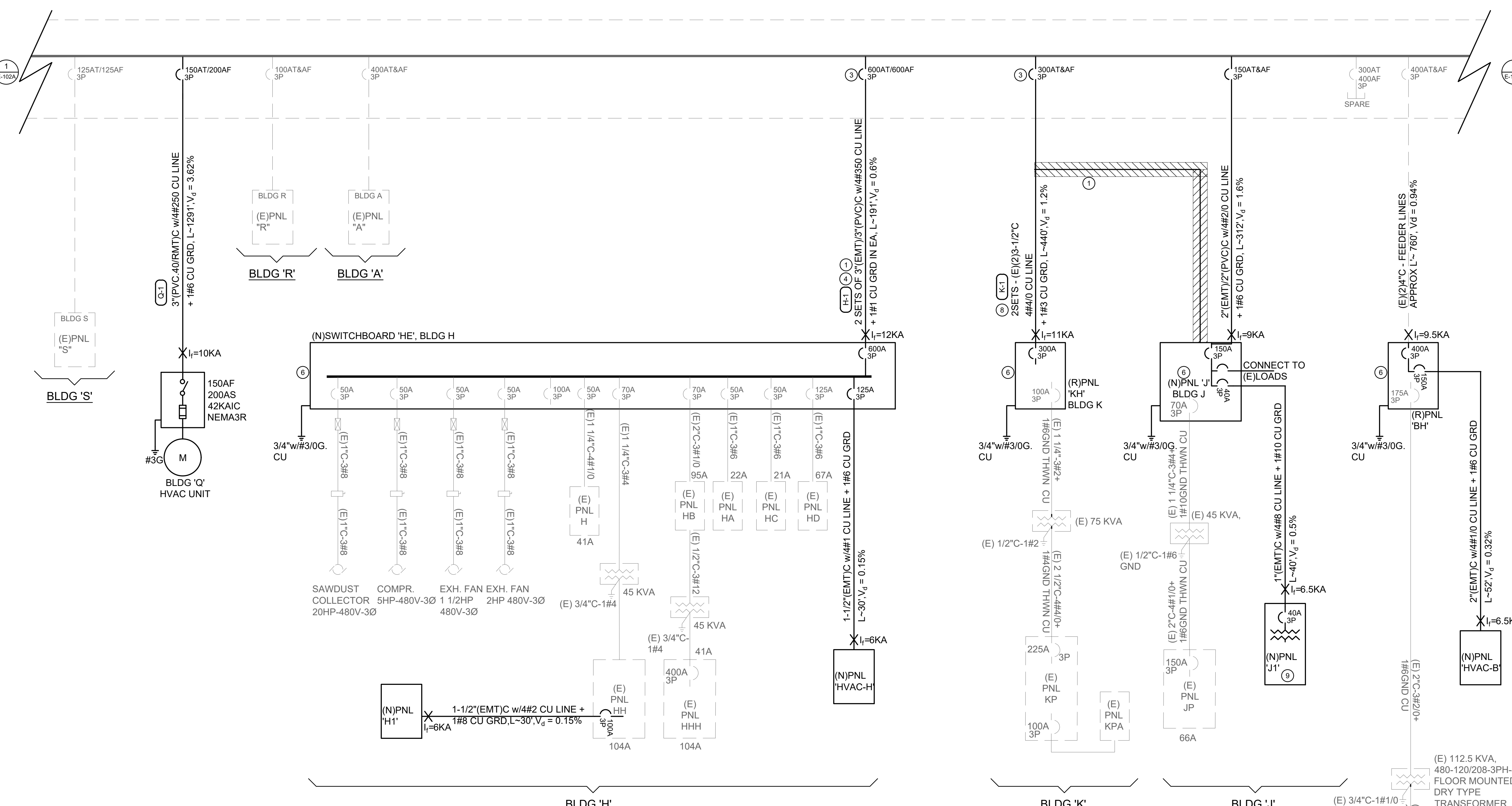
Job No.

2847.0200

Date

E-102B

10/23/2020



3/4"x10" GROUND ROD(S) 6' APART TO ACHIEVE 250 OR LESS TO GROUND. THE SECOND ROD IS REQUIRED IF 250 OR LESS TO GROUND IS NOT ACHIEVED BY INSTALLING THE FIRST ROD. IF MULTIPLE ROD ARE INSTALLED, THEY SHALL NOT BE LESS THAN 6' APART.

NOTES:  
1. ALL GROUNDING ELECTRODE AS SHOWN THAT PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH 250.52(A)(8) SHALL BE INSTALLED AND USED PER CEC 250.50, GROUNDING ELECTRODE CONDUCTOR SIZES PER CEC 250.66  
2. BONDING POINTS SHALL BE ACCESSIBLE AS REQUIRED PER CEC 250.104  
3. COORDINATE LOCATION OF GROUND RODS IN PLANTING/DIRT AREAS

PROVIDED SINGLE LINE DIAGRAM IS ONLY FOR HVAC PROVISION, ANY ADDITIONAL LOADS ARE NOT SHOWN. IT IS CONTRACTORS RESPONSIBILITY TO RECONNECT ANY EXISTING LOADS AFFECTED BY THE WORK



**(N)PANEL: KH** 277/480 VOLT, 3 PH, 4W 300 AMP COPPER BUS  
 LOCATION: HEATER ROOM K16  
 MOUNTING: SURFACE MOUNTED  
 MAIN: 300 AMP  
 LOAD: 31.1 kVA 37 AMPS

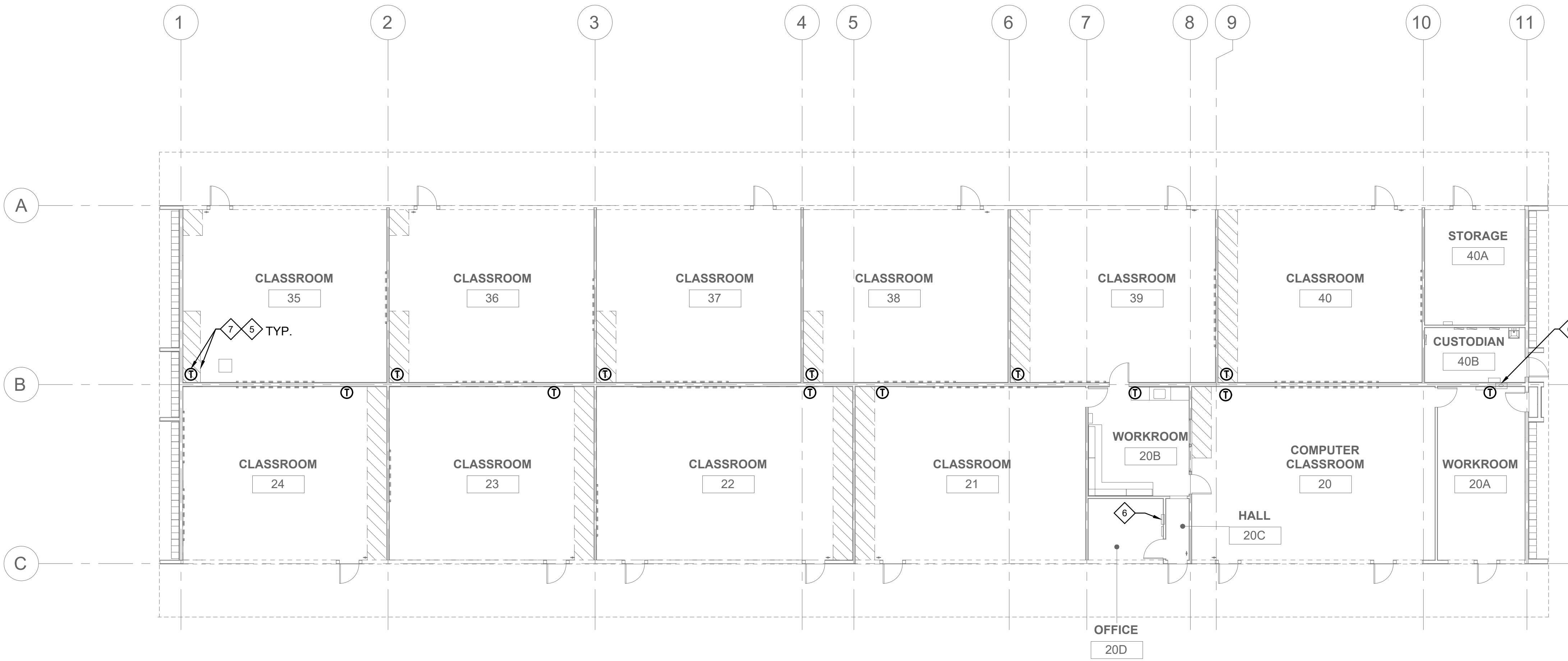
| LINE # | VA LOAD |   |   | LOAD DESCRIPTION | OUTLETS |   |   | CIRCUIT BREAKER | LOAD DESCRIPTION | VA LOAD |      |   |
|--------|---------|---|---|------------------|---------|---|---|-----------------|------------------|---------|------|---|
|        | A       | B | C |                  | O       | R | L |                 |                  | P       | A    | B |
| 1      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 2      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 3      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 4      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 5      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 6      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 7      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 8      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 9      |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 10     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 11     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 12     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 13     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 14     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 15     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 16     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 17     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 18     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 19     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 20     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 21     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 22     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 23     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 24     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 25     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 26     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 27     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 28     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 29     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 30     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 31     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 32     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 33     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 34     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 35     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 36     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 37     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 38     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 39     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 40     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 41     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 42     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 43     | 3602    |   |   | (N)RTU - K-14    |         |   |   | 3 15            | 25 3             |         | 6100 |   |
| 44     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 45     | 3602    |   |   | (N)RTU - K-14    |         |   |   | 3 15            | 25 3             |         | 6100 |   |
| 46     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 47     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 48     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 49     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 50     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 51     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 52     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 53     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 54     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 55     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 56     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 57     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 58     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 59     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 60     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 61     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 62     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 63     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 64     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 65     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 66     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 67     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 68     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 69     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 70     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 71     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 72     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 73     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 74     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 75     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 76     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 77     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 78     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 79     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 80     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 81     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 82     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 83     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 84     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 85     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 86     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 87     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 88     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 89     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 90     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 91     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 92     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 93     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 94     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 95     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 96     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 97     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 98     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 99     |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 100    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 101    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 102    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 103    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 104    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 105    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 106    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 107    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 108    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 109    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 110    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 111    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 112    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 113    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 114    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 115    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 116    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 117    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 118    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 119    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 120    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 121    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 122    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 123    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 124    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 125    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 126    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 127    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 128    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 129    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 130    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 131    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 132    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 133    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 134    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 135    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 136    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 137    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 138    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 139    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 140    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 141    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 142    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 143    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 144    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 145    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 146    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 147    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 148    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 149    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 150    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 151    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 152    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 153    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 154    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 155    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 156    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 157    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 158    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 159    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 160    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 161    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 162    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 163    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 164    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 165    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 166    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 167    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 168    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 169    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 170    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 171    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 172    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 173    |         |   |   | (E)LOAD          |         |   |   | 1 20            |                  |         |      |   |
| 174    |         |   |   | (E)LOAD          |         |   |   |                 |                  |         |      |   |



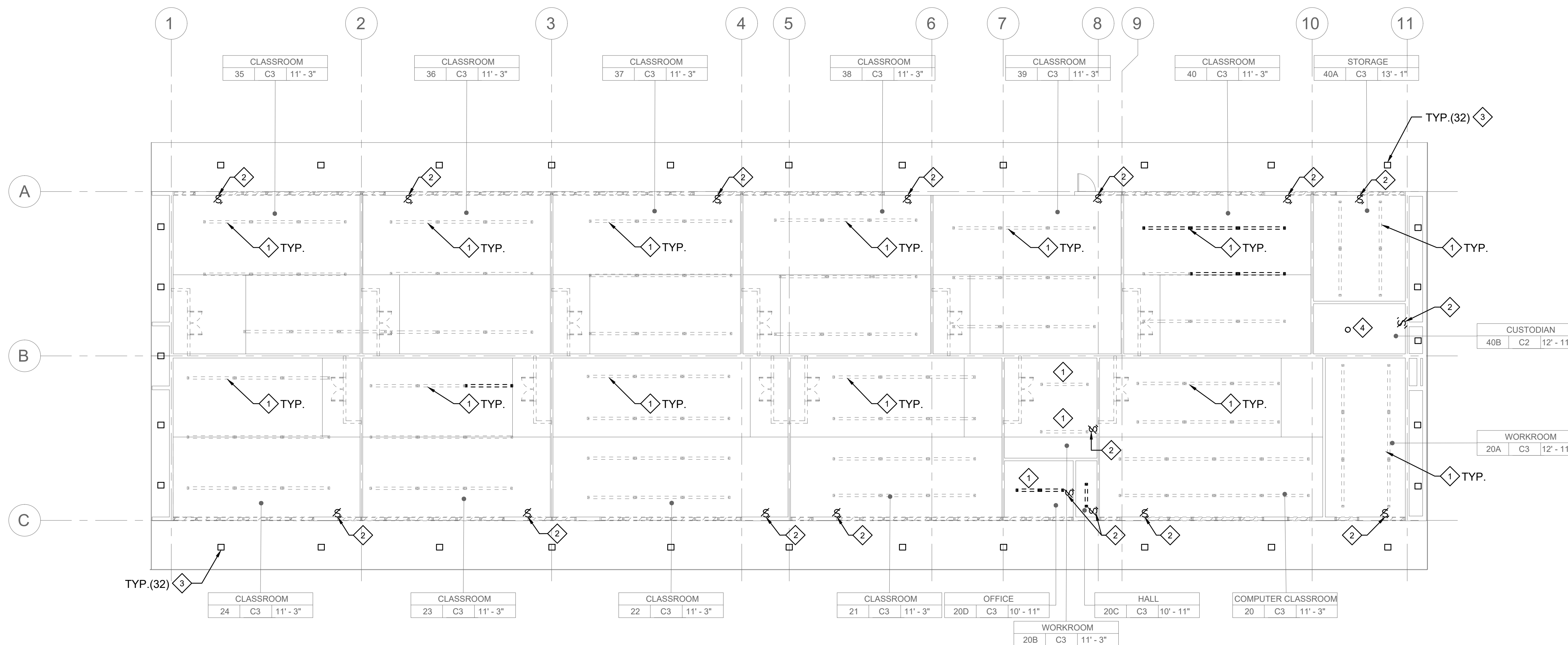
**(N)PANEL: IH** 277/480 VOLT, 3 PH, 4W 225 AMP COPPER BUS  
 LOCATION: ELECTRICAL ROOM 66A (PANEL TO HAVE BOLT-ON BREAKERS)  
 MOUNTING: SURFACE MOUNTED MAIN: 225 AMP  
 LOAD: 47.4 kVA 57 AMPS

| #   | VA LOAD |        |        | LOAD DESCRIPTION |        |        | OUTLETS |     |   | LOAD DESCRIPTION |   |   | VA LOAD |   |   | # |        |        |        |
|-----|---------|--------|--------|------------------|--------|--------|---------|-----|---|------------------|---|---|---------|---|---|---|--------|--------|--------|
|     | LINE A  | LINE B | LINE C | LINE A           | LINE B | LINE C | O       | R   | L | P                | A | P | L       | R | O |   | LINE A | LINE B | LINE C |
| 1   |         |        |        | (E)LOAD          |        |        | 1       | 20  |   |                  |   |   |         |   |   |   |        |        | 2      |
| 3   |         |        |        | (E)LOAD          |        |        | 1       | 20  |   |                  |   |   |         |   |   |   |        |        | 4      |
| 5   |         |        |        | (E)LOAD          |        |        | 1       | 20  |   |                  |   |   |         |   |   |   |        |        | 6      |
| 7   |         |        |        | (E)LOAD          |        |        | 1       | 20  |   |                  |   |   |         |   |   |   |        |        | 8      |
| 9   |         |        |        | (E)LOAD          |        |        | 3       | 25  |   |                  |   |   |         |   |   |   |        |        | 10     |
| 11  |         |        |        | (E)LOAD          |        |        | 20      |     |   |                  |   |   |         |   |   |   |        |        | 12     |
| 13  |         |        |        | (E)LOAD          |        |        | 20      |     |   |                  |   |   |         |   |   |   |        |        | 14     |
| 15  |         |        |        | (E)LOAD          |        |        | 3       | 100 |   |                  |   |   |         |   |   |   |        |        | 16     |
| 17  |         |        |        | (E)LOAD          |        |        | 20      |     |   |                  |   |   |         |   |   |   |        |        | 18     |
| 19  |         |        |        | (E)LOAD          |        |        | 20      |     |   |                  |   |   |         |   |   |   |        |        | 20     |
| 21  |         |        |        | (E)LOAD          |        |        | 3       | 50  |   |                  |   |   |         |   |   |   |        |        | 22     |
| 23  |         |        |        | (E)LOAD          |        |        | 20      |     |   |                  |   |   |         |   |   |   |        |        | 24     |
| 25  |         |        |        | (E)LOAD          |        |        | 1       | 20  |   |                  |   |   |         |   |   |   |        |        | 26     |
| 27  |         |        |        | (N)RTU - I-62    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 28     |
| 29  |         |        |        | (N)RTU - I-63    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 30     |
| 31  |         |        |        | (N)RTU - I-66    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 32     |
| 33  |         |        |        | (N)RTU - I-67    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 34     |
| 35  |         |        |        | (N)RTU - I-68    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 36     |
| 37  |         |        |        | (N)RTU - I-69    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 38     |
| 39  |         |        |        | (N)RTU - I-70    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 40     |
| 41  |         |        |        | (N)RTU - I-71    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 42     |
| 43  |         |        |        | (N)RTU - I-72    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 44     |
| 45  |         |        |        | (N)RTU - I-73    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 46     |
| 47  |         |        |        | (N)RTU - I-74    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 48     |
| 49  |         |        |        | (N)RTU - I-75    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 50     |
| 51  |         |        |        | (N)RTU - I-76    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 52     |
| 53  |         |        |        | (N)RTU - I-77    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 54     |
| 55  |         |        |        | (N)RTU - I-78    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 56     |
| 57  |         |        |        | (N)RTU - I-79    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 58     |
| 59  |         |        |        | (N)RTU - I-80    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 60     |
| 61  |         |        |        | (N)RTU - I-81    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 62     |
| 63  |         |        |        | (N)RTU - I-82    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 64     |
| 65  |         |        |        | (N)RTU - I-83    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 66     |
| 67  |         |        |        | (N)RTU - I-84    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 68     |
| 69  |         |        |        | (N)RTU - I-85    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 70     |
| 71  |         |        |        | (N)RTU - I-86    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 72     |
| 73  |         |        |        | (N)RTU - I-87    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 74     |
| 75  |         |        |        | (N)RTU - I-88    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 76     |
| 77  |         |        |        | (N)RTU - I-89    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 78     |
| 79  |         |        |        | (N)RTU - I-90    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 80     |
| 81  |         |        |        | (N)RTU - I-91    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 82     |
| 83  |         |        |        | (N)RTU - I-92    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 84     |
| 85  |         |        |        | (N)RTU - I-93    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 86     |
| 87  |         |        |        | (N)RTU - I-94    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 88     |
| 89  |         |        |        | (N)RTU - I-95    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 90     |
| 91  |         |        |        | (N)RTU - I-96    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 92     |
| 93  |         |        |        | (N)RTU - I-97    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 94     |
| 95  |         |        |        | (N)RTU - I-98    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 96     |
| 97  |         |        |        | (N)RTU - I-99    |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 98     |
| 99  |         |        |        | (N)RTU - I-100   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 100    |
| 101 |         |        |        | (N)RTU - I-101   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 102    |
| 103 |         |        |        | (N)RTU - I-102   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 104    |
| 105 |         |        |        | (N)RTU - I-103   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 106    |
| 107 |         |        |        | (N)RTU - I-104   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 108    |
| 109 |         |        |        | (N)RTU - I-105   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 110    |
| 111 |         |        |        | (N)RTU - I-106   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 112    |
| 113 |         |        |        | (N)RTU - I-107   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 114    |
| 115 |         |        |        | (N)RTU - I-108   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 116    |
| 117 |         |        |        | (N)RTU - I-109   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 118    |
| 119 |         |        |        | (N)RTU - I-110   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 120    |
| 121 |         |        |        | (N)RTU - I-111   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 122    |
| 123 |         |        |        | (N)RTU - I-112   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 124    |
| 125 |         |        |        | (N)RTU - I-113   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 126    |
| 127 |         |        |        | (N)RTU - I-114   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 128    |
| 129 |         |        |        | (N)RTU - I-115   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 130    |
| 131 |         |        |        | (N)RTU - I-116   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 132    |
| 133 |         |        |        | (N)RTU - I-117   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 134    |
| 135 |         |        |        | (N)RTU - I-118   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 136    |
| 137 |         |        |        | (N)RTU - I-119   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 138    |
| 139 |         |        |        | (N)RTU - I-120   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 140    |
| 141 |         |        |        | (N)RTU - I-121   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 142    |
| 143 |         |        |        | (N)RTU - I-122   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 144    |
| 145 |         |        |        | (N)RTU - I-123   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 146    |
| 147 |         |        |        | (N)RTU - I-124   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 148    |
| 149 |         |        |        | (N)RTU - I-125   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 150    |
| 151 |         |        |        | (N)RTU - I-126   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 152    |
| 153 |         |        |        | (N)RTU - I-127   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 154    |
| 155 |         |        |        | (N)RTU - I-128   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 156    |
| 157 |         |        |        | (N)RTU - I-129   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 158    |
| 159 |         |        |        | (N)RTU - I-130   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 160    |
| 161 |         |        |        | (N)RTU - I-131   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 162    |
| 163 |         |        |        | (N)RTU - I-132   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 164    |
| 165 |         |        |        | (N)RTU - I-133   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 166    |
| 167 |         |        |        | (N)RTU - I-134   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 168    |
| 169 |         |        |        | (N)RTU - I-135   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 170    |
| 171 |         |        |        | (N)RTU - I-136   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 172    |
| 173 |         |        |        | (N)RTU - I-137   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 174    |
| 175 |         |        |        | (N)RTU - I-138   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 176    |
| 177 |         |        |        | (N)RTU - I-139   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 178    |
| 179 |         |        |        | (N)RTU - I-140   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 180    |
| 181 |         |        |        | (N)RTU - I-141   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 182    |
| 183 |         |        |        | (N)RTU - I-142   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 184    |
| 185 |         |        |        | (N)RTU - I-143   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 186    |
| 187 |         |        |        | (N)RTU - I-144   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 188    |
| 189 |         |        |        | (N)RTU - I-145   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 190    |
| 191 |         |        |        | (N)RTU - I-146   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 192    |
| 193 |         |        |        | (N)RTU - I-147   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 194    |
| 195 |         |        |        | (N)RTU - I-148   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 196    |
| 197 |         |        |        | (N)RTU - I-149   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 198    |
| 199 |         |        |        | (N)RTU - I-150   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 200    |
| 201 |         |        |        | (N)RTU - I-151   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 202    |
| 203 |         |        |        | (N)RTU - I-152   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 204    |
| 205 |         |        |        | (N)RTU - I-153   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 206    |
| 207 |         |        |        | (N)RTU - I-154   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 208    |
| 209 |         |        |        | (N)RTU - I-155   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 210    |
| 211 |         |        |        | (N)RTU - I-156   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 212    |
| 213 |         |        |        | (N)RTU - I-157   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 214    |
| 215 |         |        |        | (N)RTU - I-158   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 216    |
| 217 |         |        |        | (N)RTU - I-159   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 218    |
| 219 |         |        |        | (N)RTU - I-160   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 220    |
| 221 |         |        |        | (N)RTU - I-161   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 222    |
| 223 |         |        |        | (N)RTU - I-162   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        | 224    |
| 225 |         |        |        | (N)RTU - I-163   |        |        | 3       | 15  |   |                  |   |   |         |   |   |   |        |        |        |





1 CLASSROOM BUILDING 'B' DEMOLITION POWER PLAN  
3/32" = 1'-0"



2 CLASSROOM BUILDING 'B' DEMOLITION LIGHTING PLAN  
3/32" = 1'-0"

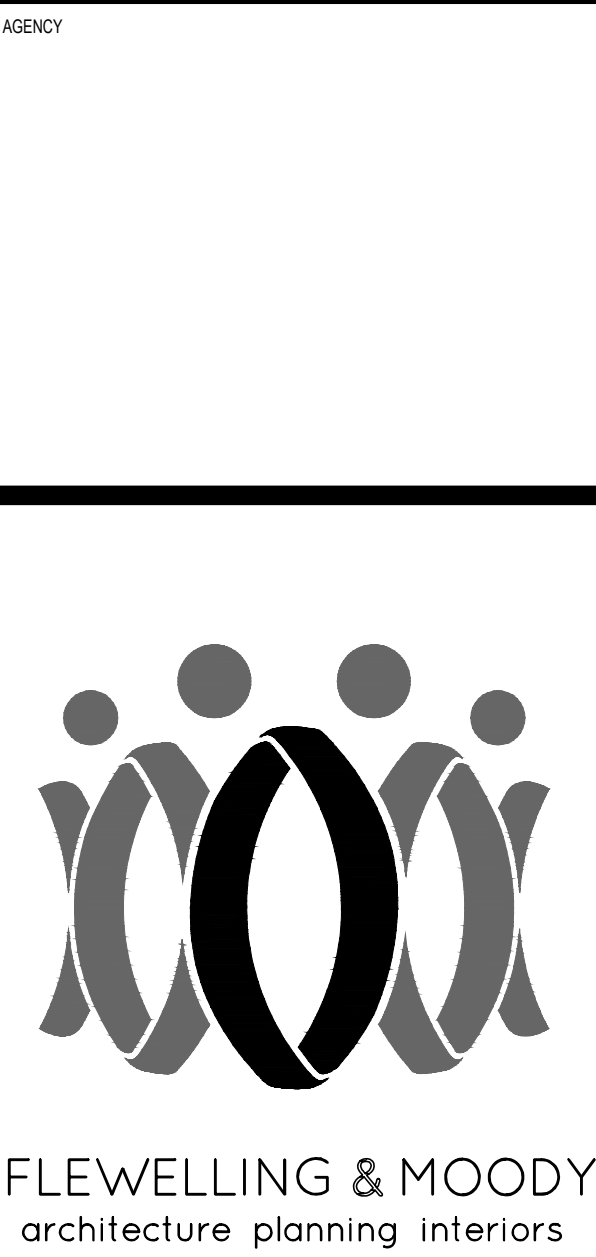
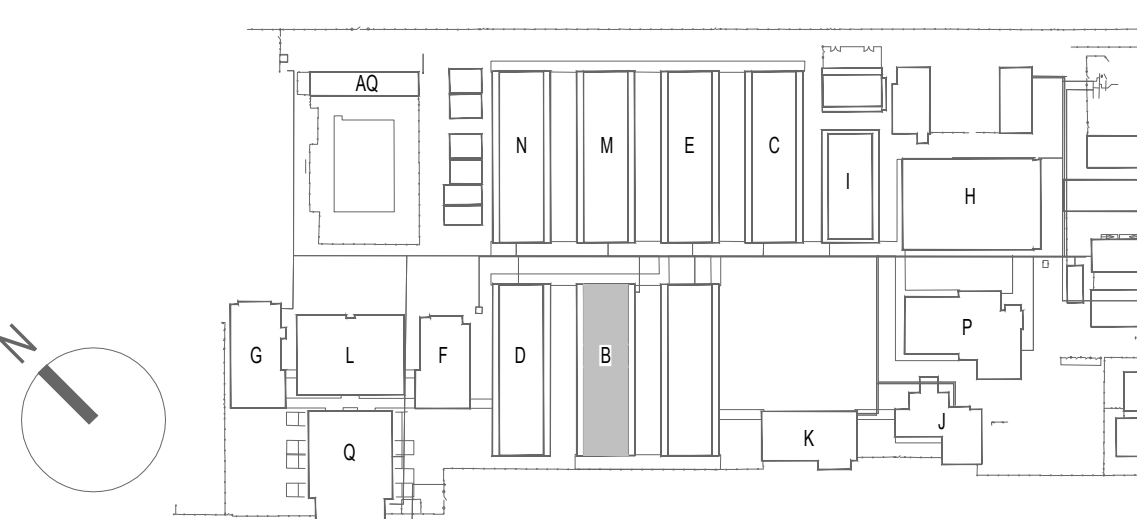
**DEMOLITION GENERAL NOTES**

- A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION OF ANY WORK.
- B. EACH UNIT SHOWN FOR DEMOLITION ON MECHANICAL PLANS IS TO BE COMPLETELY DISCONNECTED FOR DEMOLITION/REMOVAL. EXISTING DISCONNECTS AND CIRCUIT BREAKERS ARE TO BE SWITCHED OFF.
- C. AS A RESULT OF ANY DEMOLITION, ALLOW NO 'ORPHANED' OR ISOLATED DEVICES OUTSIDE OF WORK SCOPE AREA TO REMAIN DISCONNECTED. PROVIDE ANY NECESSARY NEW TERMINATIONS, CONDUCTORS, CONNECTIONS, CONDUIT, ETC.
- D. ANY CONDUITS NOT SUITABLE FOR REUSE SHALL NOT BE ABANDONED IN PLACE. REMOVE BACK TO FEEDING PANEL OR NEAREST PRECEDING JUNCTION BOX.
- E. PRIOR TO COMMENCING ANY WORK THE CONTRACTOR SHALL CONSULT WITH OWNER REPRESENTATIVE ELECTRICIAN AND CONDUCT THE NECESSARY PROTOCOLS FOR THE LOCK OUT/TAG OUT PROCEDURE AND DISABLING OF BEAM DETECTORS.

**DEMOLITION KEY NOTES**

- 1 EXISTING PENDANT MOUNT LINEAR LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
- 2 EXISTING LIGHT SWITCH TO BE REMOVED. PROTECT AND IDENTIFY CONFIGURATION AND MAINTAIN SAME CONFIGURATION DURING CONSTRUCTION. NEW SWITCHES TO BE COMPATIBLE WITH WIRELESS OCCUPANCY SENSORS AS SHOWN ON CONSTRUCTION PLAN.
- 3 EXISTING EXTERIOR LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
- 4 EXISTING CIRCULAR SURFACE MOUNT LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
- 5 EXISTING THERMOSTATS ASSOCIATED WITH THE FURNACE TO BE REMOVED, REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING CONTROL CONDUCTORS. CUT, CAP AND ABANDON CONDUIT IN PLACE. LABEL CONDUIT AND ANY ASSOCIATED BREAKER AS "SPARE". FIELD VERIFY THE LOCATION OF THERMOSTAT. FIELD VERIFY THE EXACT LOCATION OF THERMOSTAT AND ASSOCIATED ACCESSORIES.
- 6 EXISTING WALL/UNIT HEATERS TO BE REMOVED, REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING EXISTING DISCONNECTS, CONDUCTORS. CUT, CAP AND ABANDON CONDUIT IN PLACE. LABEL CONDUIT AND THE ASSOCIATED BREAKER AS "SPARE". FIELD VERIFY THE EXACT LOCATION OF FURNACE AND ASSOCIATED ACCESSORIES.
- 7 EXISTING FURNACE TO BE REMOVED. REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING EXISTING DISCONNECTS, CONDUCTORS. CUT, CAP AND ABANDON CONDUIT IN PLACE. LABEL CONDUIT AND THE ASSOCIATED BREAKER AS "SPARE". FIELD VERIFY THE EXACT LOCATION OF FURNACE AND ASSOCIATED ACCESSORIES.

**KEY PLAN**



HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.5300  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

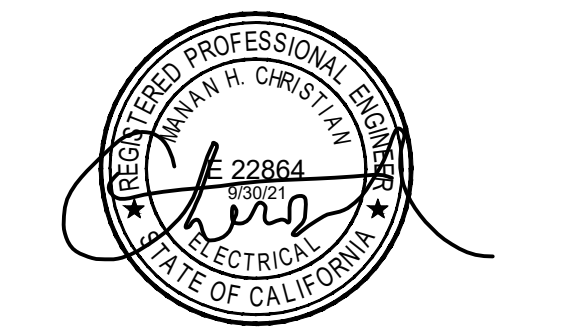
ARCHITECT

CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247

CANARLUO OFFICE  
10000 WILSON BLVD STE 300  
LOS ANGELES, CA 90024  
TEL: 310.408.4477

GLENDALE OFFICE  
10000 WILSON BLVD STE 300  
LOS ANGELES, CA 90024  
TEL: 310.408.4477



Drawn by \_\_\_\_\_

Checked by \_\_\_\_\_

Revisions

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared to a specific job. Any and all discrepancies to the same within or to part of any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

BUILDING 'B'  
DEMOLITION  
POWER AND LIGHTING  
PLAN

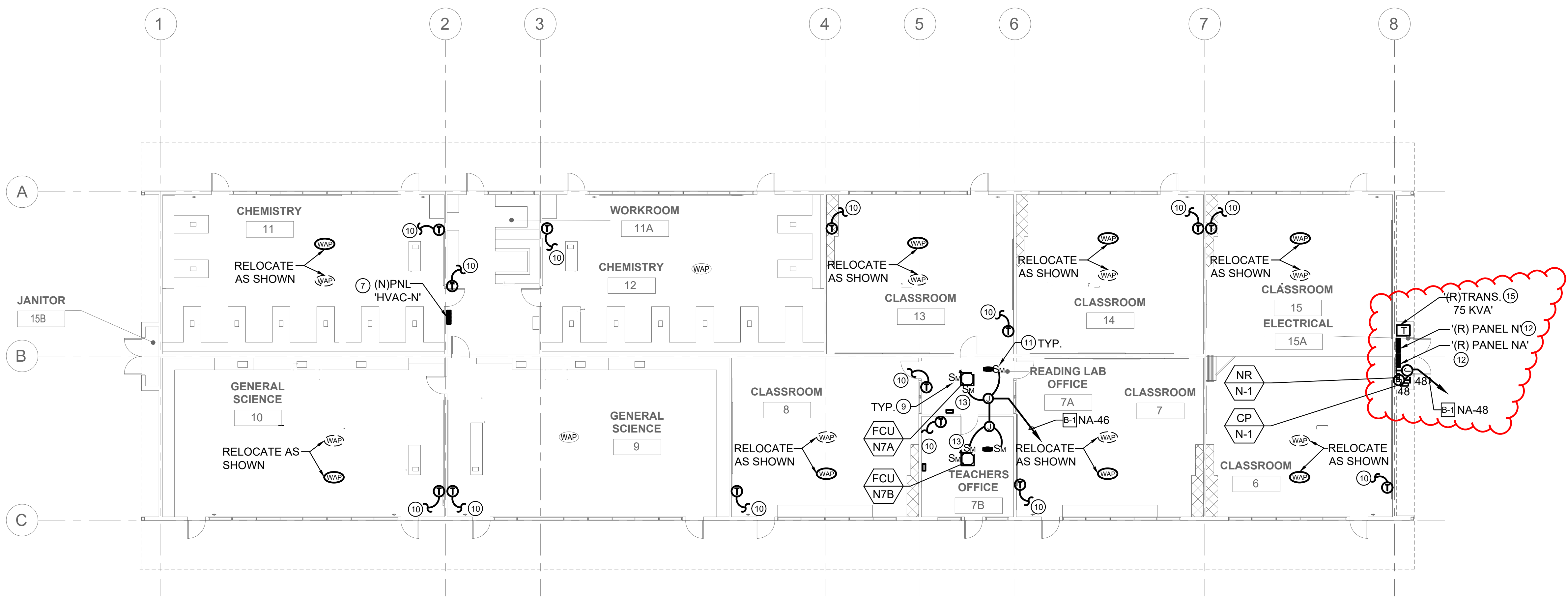
Job No. \_\_\_\_\_

2847.0200

Date \_\_\_\_\_

**EB-201D**

10/23/2020



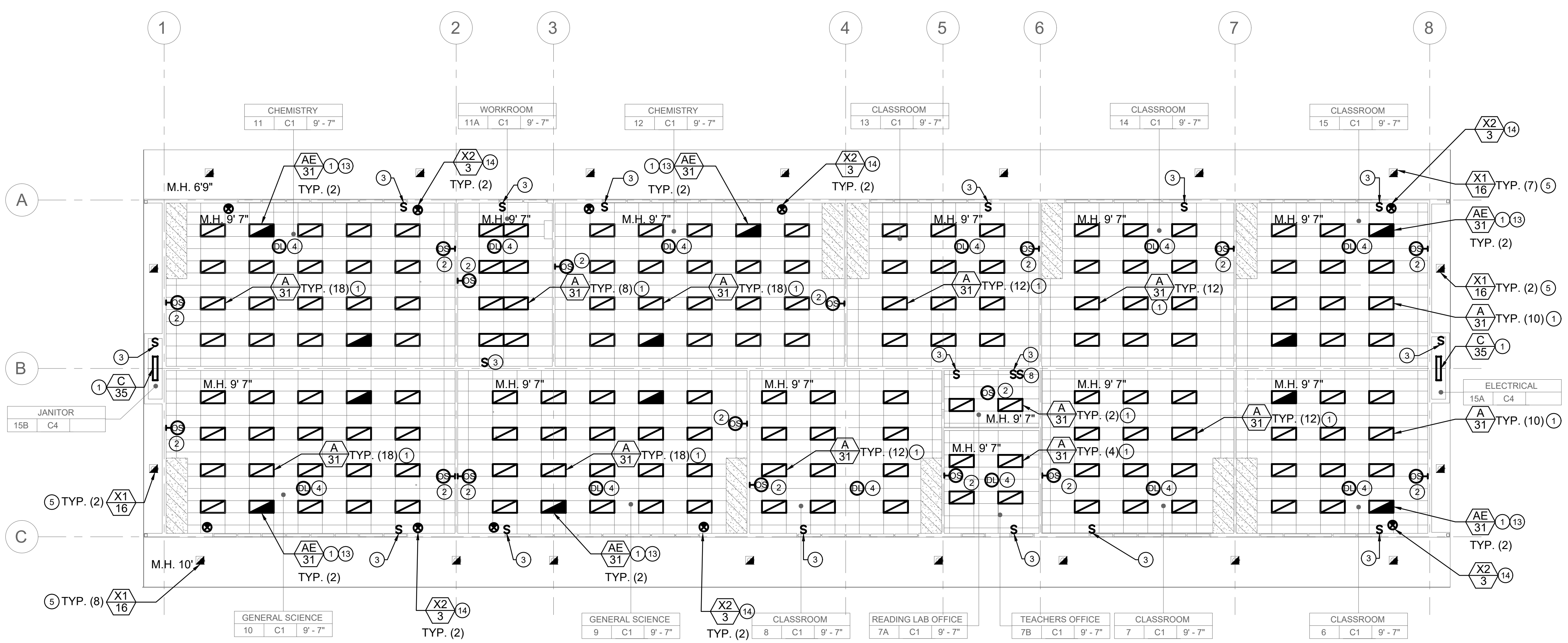
**GENERAL NOTES**

- A. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
- B. ALL TERMINALS SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.
- C. ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (NEC-250), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
- D. MARK ALL EXPOSED JUNCTION BOXES WITH THE PANEL AND CIRCUIT NUMBERS OF THE CIRCUITS ENCLOSED WITHIN THE JUNCTION BOX USING A PERMANENT, FELT TIP MARKER.
- E. ALL ELECTRICAL EQUIPMENTS LOCATED IN CEILING SPACES/WALL CAVITIES SHALL BE ACCESSIBLE BY AN ACCESS PANEL OR OTHER MEANS.
- F. ALL CONDUCTORS TO BE COPPER, TYPE THWN/THHN.
- G. ALL SWITCH LOCATIONS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH IN.
- H. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES OF LIGHTS.
- I. PROVIDE THE REQUIRED AUXILIARY J-BOXES, PULL-BOXES OR HANDHOLES PER NEC 352.26/358.26 TO FACILITATE THE INSTALLATION OF BRANCH CIRCUIT WIRING OR FEEDERS. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS(90 DEGREES TOTAL) BETWEEN PULL POINTS FOR EXAMPLE, CONDUIT BODIES AND BOXES.
- J. CONTRACTOR TO PROVIDE J-BOX FOR HVAC CONTROL PANEL SUPPLY AS SHOWN, COORDINATE WITH HVAC CONTROLS MFG AND PROVIDE ALL REQUIRED ACCESSORIES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRES, EXTENSIONS, 24V TRANSFORMERS FOR A FULLY OPERATIONAL SYSTEM.
- K. CONTRACTOR SHALL PERMANENTLY LABEL ALL OUTLETS WITH CIRCUIT NUMBERS AND PROVIDE UPDATED PANEL SCHEDULES FOR ALL AFFECTED PANELS.
- L. CONTRACTOR SHALL COORDINATE ALL REQUIRED SHUT DOWN OF SYSTEMS WITH BUILDING ENGINEER.
- M. ALL OF THE EXTERIOR LIGHTING IS BEING REPLACED AS PART OF PROP 39, AND TIES INTO THE RAB LIGHTCLOUD, WHICH REPORTS TO THE DISTRICT EMS.
- N. PROVIDE SEISMIC BRACING TO ALL PENDANT MOUNTED LIGHTING FIXTURE THAT CAN NOT SWING FREELY BY 45 IN BOTH "X" AND "Y" DIRECTION WHETHER NOTED ON DRAWINGS OR NOT. SEE DETAIL 4/E-105A.

**KEY NOTES**

- 1. PROVIDE NEW LED LIGHT FIXTURE. CONNECT THE NEW FIXTURE TO THE EXISTING CIRCUIT IDENTIFIED DURING DEMOLITION. PROVIDE ALL NECESSARY CONDUIT AND CONDUCTOR EXTENSIONS AND ACCESSORIES AS NEEDED.
- 2. PROVIDE NEW LUTRON WALL MOUNTED OCCUPANCY SENSOR MODEL #LRF2-OWL-P-WH. PROVIDE LUTRON POWER PACK MODEL #RMJS-8TN-DV-B AND OTHER ACCESSORIES AS NEEDED FOR FULL FUNCTIONALITY OF THE SENSOR. REFER TO LIGHTING CONTROLS DIAGRAM SHEET E-114.
- 3. PROVIDE NEW LUTRON PICO WIRELESS REMOTE SWITCH MODEL # PJ2-3BRL-GWH-L01. ADJUST THE NEW SWITCH HEIGHT TO 48" FROM FINISHED FLOOR. REFER TO 2/E114.
- 4. PROVIDE NEW LUTRON CEILING MOUNTED DAYLIGHT SENSOR MODEL #LRF2-DCRB-WH. PROVIDE LUTRON POWER PACK MODEL #RMJS-8TN-DV-B AND OTHER ACCESSORIES AS NEEDED FOR FULL FUNCTIONALITY OF THE SENSOR. REFER TO LIGHTING CONTROLS DIAGRAM SHEET E-114.
- 5. PROVIDE NEW EXTERIOR LIGHT FIXTURE WITH EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME). CONNECT TO NEAREST EXTERIOR LIGHTING CIRCUIT. PROVIDE ALL NECESSARY CONDUITS, CONDUCTORS AND ACCESSORIES FOR FULLY OPERATIONAL SYSTEM. PROVIDE A SEPARATE UN-SWITCHED HOT WIRE TO THE LIGHT FIXTURE.
- 6. PROVIDE 20-AMP MOTOR RATED SWITCH FOR CONDENSATE PUMP POWER, FIELD VERIFY THE LOCATION. REFER TO PLUMBING DETAIL 6 ON PLUMBING SHEET P-002.
- 7. REPLACE EXISTING WALL MOUNTED HEATER AND ALL ASSOCIATED ACCESSORIES AND PROVIDE NEW ELECTRICAL PANEL FOR HVAC DISTRIBUTION. SEE PANEL SCHEDULES FOR SIZING INFORMATION.
- 8. EXISTING LIGHT SWITCH TO REMAIN.
- 9. INDOOR UNIT IS POWERED BY THE RESPECTIVE OUTDOOR UNIT. MOTOR RATED SWITCH IS PROVIDED FOR THE DISCONNECTION FROM THE OUTDOOR UNIT. MOUNT THE SWITCH PER NEC 440.14. FIELD VERIFY THE SWITCH LOCATION. PROVIDE 3/4" CONDUIT TO OUTDOOR UNIT FOR POWER WIRING.
- 10. PROVIDE WIREMOLD SERIES 2400 MOUNTED TO WALL AND 3/4" CONDUIT WITH PULL STRING WITHIN CEILING SPACE FOR CONTROL WIRING FROM THERMOSTAT TO ASSOCIATED 24V INTERFACE KIT, FAN COIL UNIT AND HEAT PUMP UNIT/ROOFTOP UNIT AS REQUIRED. PROVIDE NECESSARY ADAPTORS TO TRANSITION FROM CONDUIT TO RACEWAY. COORDINATE WITH HVAC CONTROLS CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF THERMOSTATS.
- 11. 20AMP, 1P, 3/4HP MINIMUM, MOTOR RATED TOGGLE SWITCH FOR BOOSTER FAN DISCONNECTING MEANS. MOUNT THE SWITCH ON THE UNIT (NAME PLATE OF THE FAN SHALL BE VISIBLE) OR TO THE NEAREST STRUCTURAL MEMBER FROM THE FAN.
- 12. REPLACE EXISTING PANEL WITH NEW, SEE PANEL SCHEDULE FOR SIZING INFO. PROTECT EXISTING CIRCUITS PRIOR TO DEMOLITION AND RECONNECT EXISTING CIRCUITS TO THE NEW PANEL. RECONNECT NEW GROUNDING ELECTRODE CONDUCTOR TO EXISTING GROUNDING SYSTEM WHEREVER APPLICABLE.
- 13. PROVIDE LIGHT FIXTURE WITH INTEGRATED BATTERY PACK. PROVIDE A SEPARATE UN-SWITCHED HOT WIRE TO THE LIGHT FIXTURE.
- 14. PROVIDE NEW EXIT SIGN WITH EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES RUNTIME). CONNECT TO NEAREST LIGHTING CIRCUIT. PROVIDE ALL NECESSARY CONDUITS, CONDUCTORS AND ACCESSORIES FOR A FULLY OPERATIONAL SYSTEM. PROVIDE A SEPARATE UN-SWITCH HOT WIRE TO THE FIXTURE.
- 15. REPLACE (E)TRANSFORMER WITH (N) IN PLACE

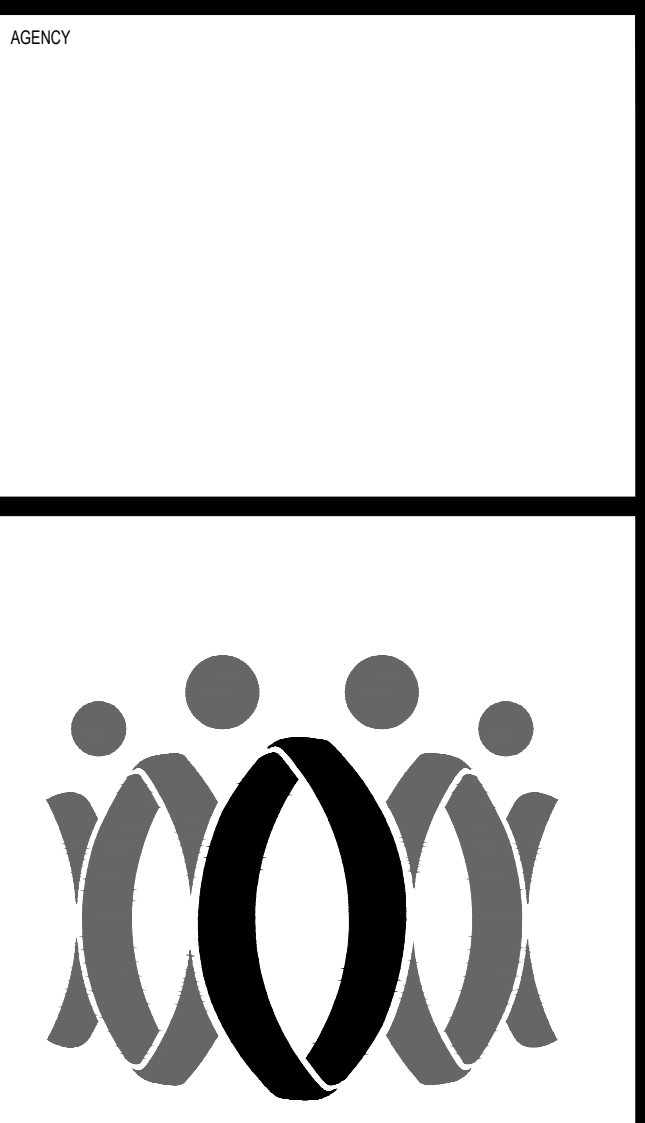
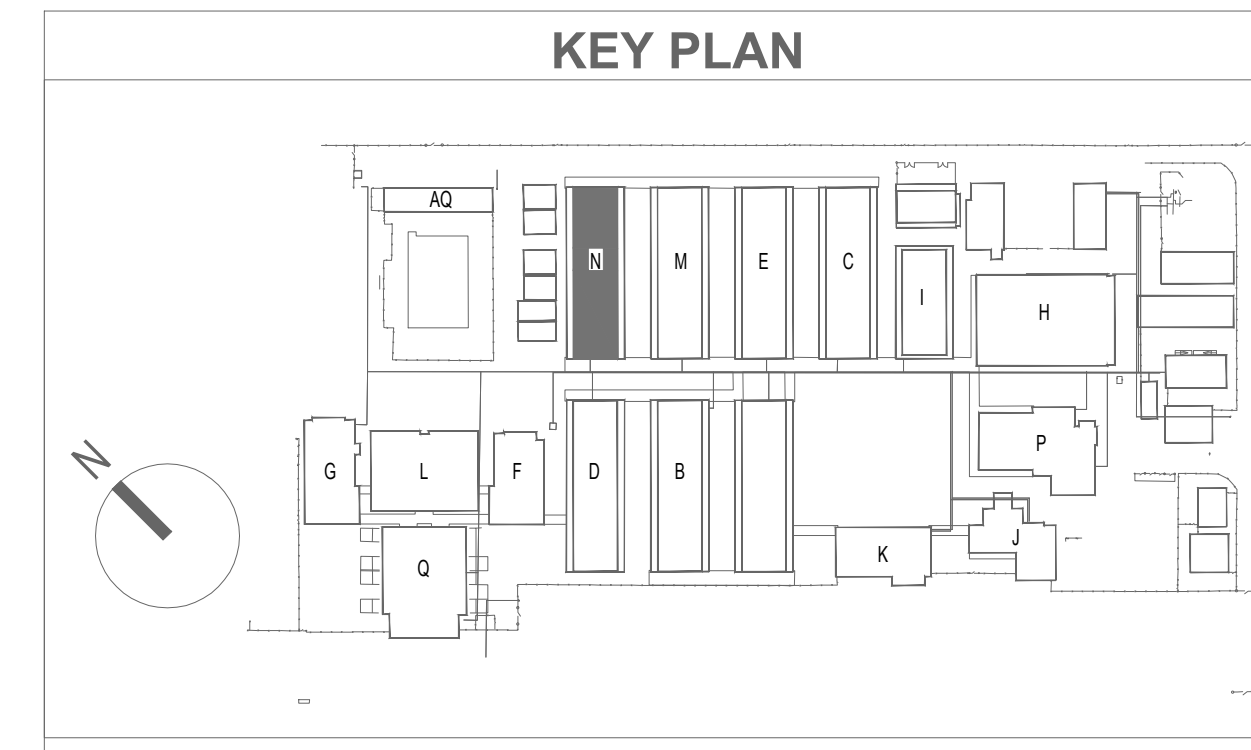
1 CLASSROOM BUILDING 'N' RECONSTRUCTION POWER PLAN  
3/32" = 1'-0"



2 CLASSROOM BUILDING 'N' RECONSTRUCTION LIGHTING PLAN  
3/32" = 1'-0"

**BRANCH CIRCUIT CONDUCTOR SCHEDULE**

| TAG | WIRE              | CONDUIT SIZE |
|-----|-------------------|--------------|
| B-1 | 2#12 + 1#12GND CU | 3/4"         |
| B-2 | 3#12 + 1#12GND CU | 3/4"         |
| B-3 | 2#10 + 1#10GND CU | 3/4"         |



**FLEWELLING & MOODY**  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.6300  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 861.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247  
SANARLUO OFFICE  
10000 SANARLUO BLVD  
SANARLUO, CA 94588  
TEL: 925.946.8800



Drawn by: \_\_\_\_\_  
Checked by: \_\_\_\_\_

Revisions

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & specifications in connection therewith have been prepared by a specific firm, and are not responsible for their own work as a part of any other job unless otherwise indicated by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

**BUILDING 'N' RECONSTRUCTION POWER AND LIGHTING PLAN**

Job No: 2847.0200  
Date: 10/23/2020  
**EN-201**

**RFI BID CLARIFICATION REQUEST**

**RFI #** 002

**REQUESTED BY:** Tim Viola

**DATE:** 12/18/2020

**PROJECT NAME:** Bid 643 New HVAC Modernization for Rio Mesa High

**Spec #:** 23 33 01

**SUBMITTED TO:** Oxnard Union High School District

**PGS:** 6

**ATTENTION:** Arvind Balaji & Karl Aldridge

**EMAIL:** [abalaji@bernards.com](mailto:abalaji@bernards.com),  
[kaldridge@bernards.com](mailto:kaldridge@bernards.com)

**FAX:** \_\_\_\_\_

***YOUR RESPONSE TO THE FOLLOWING BID CLARIFICATION REQUEST IS REQUIRED BY ASAP***

Ref. Duct Silencers:

Note 10 on MB-201 is typical of most requiring sound traps at supply discharge of the roof top units. Additional information is required to quantify and quote the duct silencers.

- 1) Are duct silencers required for the return ducts?
- 2) Can the engineer provide a schedule of the required duct silencers with basis of design model numbers?

Check here if additional pages attached

**PROPOSED SOLUTION**

None currently.

Check here if additional pages attached

*The following information is provided in response to your bid clarification request above. This is not a change order or an approval for extra work*

- 1) Yes.
- 2) See updated sheet M-007 with duct silencer schedule. See updated specification section 23 33 01 without strikethroughs. Patrick Fitzsimmons - Budlong & Associates - 12/18/2020

**By:** \_\_\_\_\_

Check here if additional pages attached

**Name:** IRVINE CARRILLO

**Title:** ARCHITECT

**Date:** 12/22/2020

**SECTION 23 33 01**  
**AIR DUCT SILENCERS**

**PART 1 - GENERAL**

- 1.1 Basis-of-Design Product: Silencers shall be Vibro-Acoustics or approved equal.
- 1.2 Alternate manufacturers must request and obtain written approval by the Engineer to bid the project at least 10 day prior to the bid due-date. As a condition of pre-approval, alternate manufacturers must submit to the Engineer a minimum of twenty (20) different HVAC silencer test reports. Each report shall be for a silencer tested in full accordance with the ASTM E-477-13 silencer test standard in an aero-acoustic test facility which is NVLAP accredited for the ASTM E477-13 standard. Each test shall have been conducted within the last 12 month period. A copy of the laboratory's NVLAP accreditation certificate must be included with the submitted reports. Any changes to the specifications must be submitted and approved in writing by the Engineer at least 10 days prior to the bid due-date.
- 1.3 If products other than those of the basis of design manufacturer are supplied on the project, the **purchasing contractor** assumes full performance, project schedule and monetary responsibility for meeting the project noise criteria, including any retrofit work that may be required
- 1.4 SUBMITTALS
- A. Performance Data:
1. Silencer manufacturer to provide submittal drawings detailing all duct silencer data specified in the mechanical drawing schedule.
  2. The silencer manufacturer shall provide, for approval, acoustical system calculations for all duct systems with silencers to demonstrate that the submitted silencers will reduce mechanical fan noise to following NC-Levels in the occupied space. Use sound power levels of actual equipment to be installed on project. Analysis shall include breakout noise calculations.
  3. Supplier shall be responsible for the overall system pressure loss of the installation based on duct conditions upstream and downstream of the silencer to ensure required airflow is provided. Supplier shall submit detailed pressure drop analysis for the installation and detailed procedure outlining methodology for site measurement of overall system pressure loss for approval prior to manufacture.
    - a. Silencer internal design will provide ideal pressure drop value as scheduled
    - b. Installed pressure drop including system effect is maintained at maximum as scheduled.
  4. Acoustical and pressure drop calculations must be supplied with PE/P.Eng stamp at the time of submittal
- B. Source quality-control reports:
1. Silencer manufacturer to provide a copy of their laboratory NVLAP accreditation certificate for the ASTM E-477-06a test standard with the submittals. Data from non-NVLAP accredited test facilities will not be accepted.

## PART 2 - PRODUCTS

### 2.1 DUCT SILENCERS

#### A. General Requirements:

**REQUEST LATEST VERSION OF SPECIFICATION FROM MANUFACTURER FOR DUCT SILENCERS TO HAVE NON-FIBROUS MATERIALS OF ANY KIND THAT MAY BECOME AIRBORN.**

1. ~~Silencers shall be of the size, configuration, capacity and acoustic performance as scheduled on the drawings. All silencers shall be factory fabricated and supplied by the same manufacturer.~~
  2. ~~Transitions on inlet and outlet will not be accepted. Silencers shall fit the ducting system they are installed in without requiring duct fittings/transitions. Silencer inlet and outlet must match duct dimensions. See contract documents for silencer configuration. Non-basis of design suppliers must submit details of internal geometry of silencers to be supplied.~~
  3. ~~Silencer inlet and outlet connection dimensions must be equal to the duct sizes shown on the drawings. Duct transitions at silencers are not permitted unless shown on the contract drawings.~~
  4. ~~Silencers shall be constructed in accordance with ASHRAE and SMACNA standards for the pressure and velocity classification specified for the air distribution system in which it is installed. Material gauges noted in other sections are minimums. Material gauges shall be increased as required for the system pressure and velocity classification. The silencers shall not fail structurally when subjected to a differential air pressure of 8 inches water gauge.~~
  5. ~~All casing seams and joints shall be lock-formed and sealed or stitch welded and sealed except as noted in Section G below, to provide leakage resistant construction. Airtight construction shall be achieved by use of a duct-sealing compound supplied and installed by the contractor at the jobsite.~~
  6. ~~All perforated steel shall be adequately stiffened to insure flatness and form.~~
  7. ~~Fire Performance Characteristics: Silencer assemblies, sealants, and acoustical spacer, shall have flame spread index not exceeding 25 and smoke developed index not exceeding 50 when tested according to ASTM E 84, NFPA 255 or UL 723.~~
  8. ~~Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1-2007.~~
- B. ~~Rectangular Silencers including models RD, RED: Outer casing shall be ASTM A 653/A 653M, G90 galvanized sheet steel, Gauge 22 and Gauge 18 respectively. Inner perforated metal liner: ASTM A 653/A 653M, G90 galvanized sheet steel, Gauge 26 and Gauge 22~~
- C. ~~Principal Sound-Absorbing Mechanism:~~

#### 1. ~~Dissipative silencers:~~

- a. ~~Models RD, RED: type with acoustic media. Media shall be of acoustic quality, shot-free glass fiber insulation with long, resilient fibers bonded with a~~

~~thermosetting resin. Glass fiber density and compression shall be as required to insure conformance with laboratory test data. Glass fiber shall be packed with a minimum of 15% compression during silencer assembly. Media shall be resilient such that it will not crumble or break, and conform to irregular surfaces. Media shall not cause or accelerate corrosion of aluminum or steel. Mineral wool will not be permitted as a substitute for glass fiber.~~

- ~~D. HTL Casings: Where indicated on the silencer schedule, silencers shall have high transmission loss (HTL) walls externally applied and completely sealed to the silencer casing by the silencer manufacturer to assure quality controlled transmission loss. The HTL walls shall consist of media, airspace, mass and outer protective metal skin, as required, to obtain the specified room noise criteria. Standard acoustical panels will not be accepted as HTL walls. If requested by the Engineer, break-out noise calculations for each air handling and fan system shall be provided with the silencer submittal to insure compliance with the room noise criteria. Break-out noise calculations shall be based on the sound power levels of the specified equipment.~~

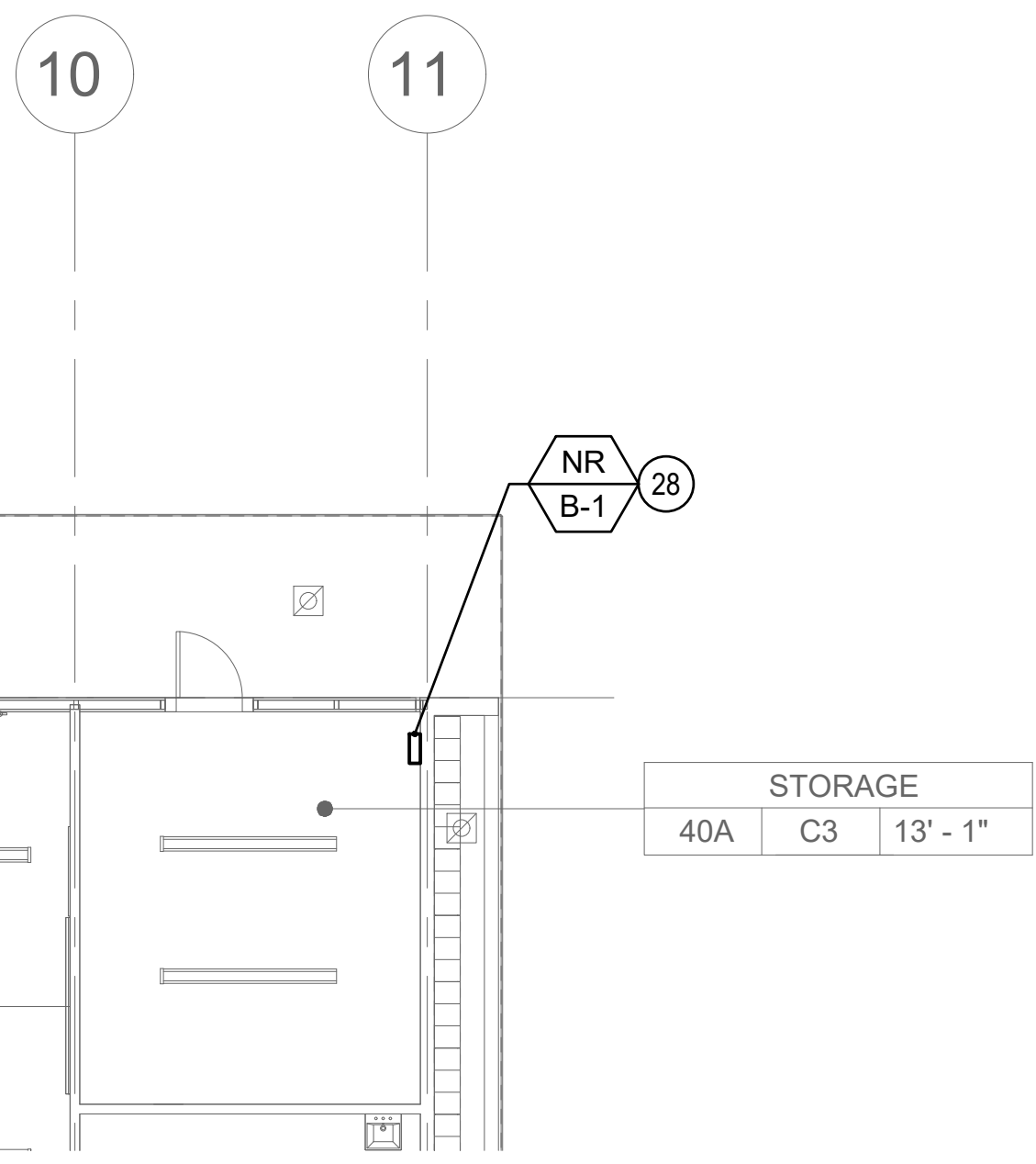
### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Install silencer according to manufacturer's written installation instructions.

**END OF SECTION**





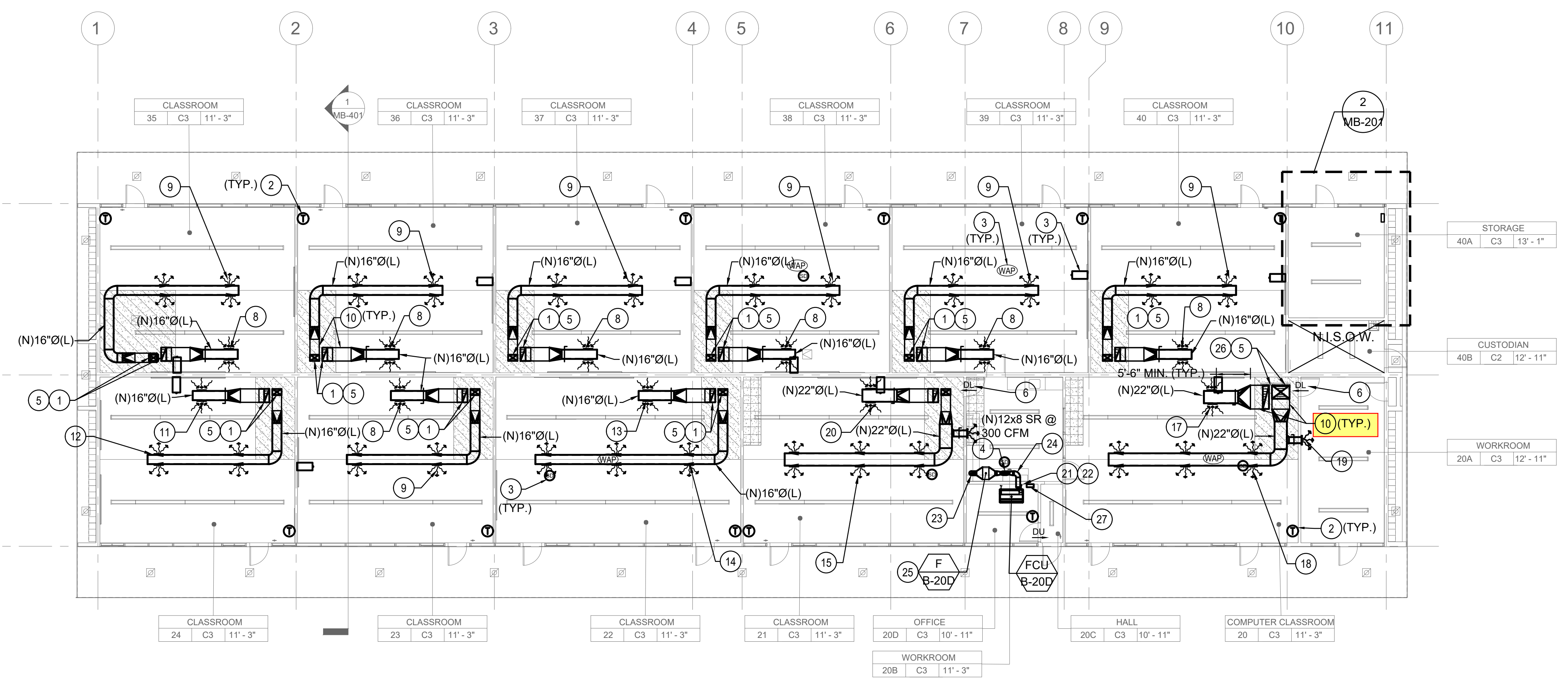
NOTE:  
ENLARGED PLAN IS TO SHOW LOCATIONS OF THE CONTROL  
PANELS. REFER TO CONTROLS RISER DIAGRAMS FOR WIRING.

2 CONTROL PANELS ENLARGED PLAN  
1/8" = 1'-0"

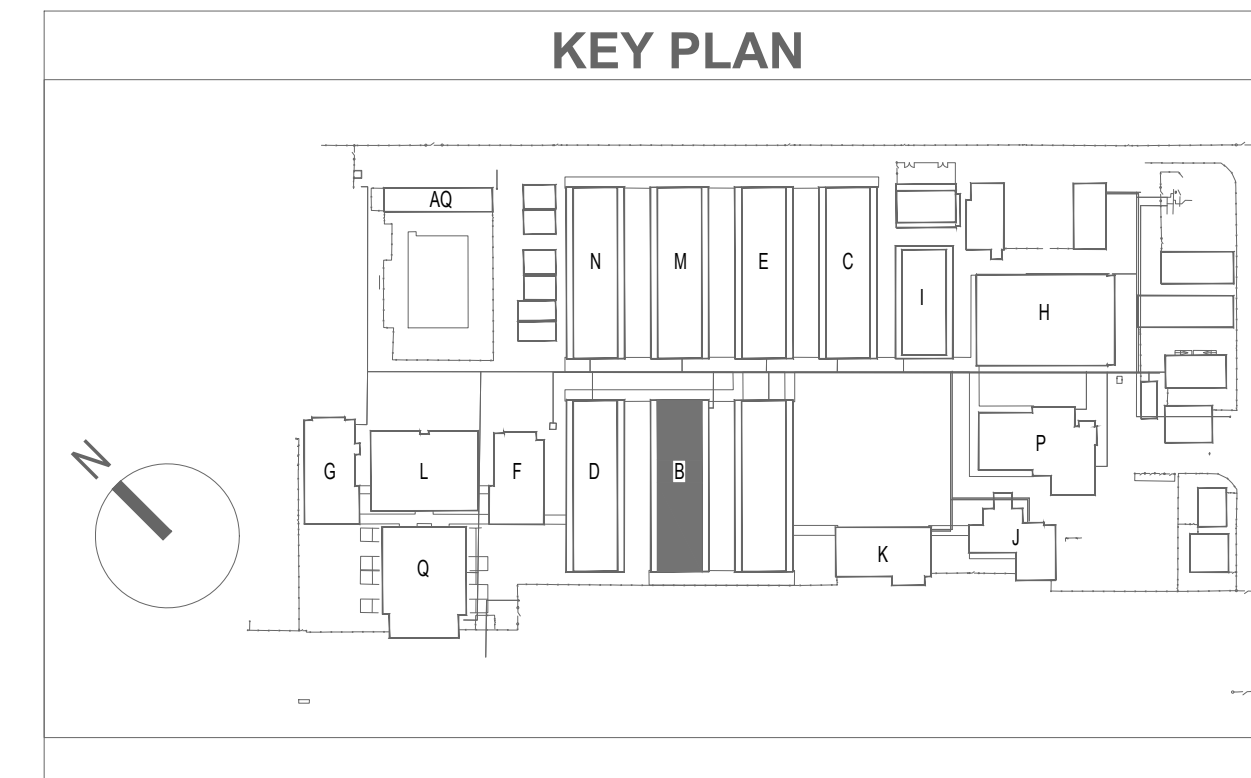
**CONSTRUCTION KEY NOTES**

- 1 (N)18x12(L) SA AND (N)10x26(L) RA DUCTS FROM RTU UNIT ON ROOF.
- 2 (N) WALL MOUNTED THERMOSTAT. PROVIDE (N) THERMOSTAT WITH INSULATED MOUNTING BACKING WHEN MOUNTED ON EXTERIOR WALLS.
- 3 (E) WAP, (E) SD AND (E) PROJECTORS ARE SHOWN ONLY FOR REFERENCE.
- 4 (N) OUTSIDE AIR INLINE BOOSTER.
- 5 ELECTRICAL AND FIRE ALARM CONTRACTOR TO PROVIDE CO SENSOR ADJACENT TO THE FIRST SUPPLY DIFFUSER/REGISTER.
- 6 (N) DOOR LOUVER.
- 7 (N) DOOR UNDERCUT.
- 8 (N)22x10 RR @ 600 CFM (TYP. 2)
- 9 (N)12x8 SR @ 300 CFM (TYP. 4)
- 10 (N) DUCT SILENCER (TYP.)
- 11 (N)24x10 RR @ 650 CFM (TYP. 2)
- 12 (N)12x8 SR @ 325 CFM (TYP. 4)
- 13 (N)26x10 RR @ 675 CFM (TYP. 2)
- 14 (N)10x8 SR @ 225 CFM (TYP. 6)
- 15 (N)14x8 SR @ 350 CFM (TYP. 6)
- 16 (N) CEILING ACCESS PANEL.
- 17 (N)46x10 RR @ 1250 CFM (TYP. 2)
- 18 (N)14x8 SR @ 350 CFM (TYP. 6)
- 19 (N)12x10 SR @ 400 CFM
- 20 (N)44x10 RR @ 1200 CFM (TYP. 2)
- 21 (N) REFRIGERATION PIPING UP THRU ROOF TO ROOF MOUNTED HEAT PUMP.
- 22 (N) CONDENSATE PIPING CONNECTION. FOR CONTINUATION SEE PLUMBING PLANS.
- 23 (N)8"Ø OUTSIDE AIR DUCT UP THRU ROOF TO ROOF CAP.
- 24 (N)8"Ø OUTSIDE AIR DUCT TO FCU.
- 25 (N) OUTSIDE AIR FILTER BOX.
- 26 (N)34x26(L) SA AND (N)6x46(L) RA DUCTS FROM RTU UNIT ON ROOF.
- 27 (N)24V THERMOSTAT INTERFACE.
- 28 PROVIDE NEW 120V NETWORK LINK WITH ALL RELATED ACCESSORIES. PROVIDE MOUNTING AS REQUIRED. SEE ELECTRICAL FOR MORE INFORMATION.

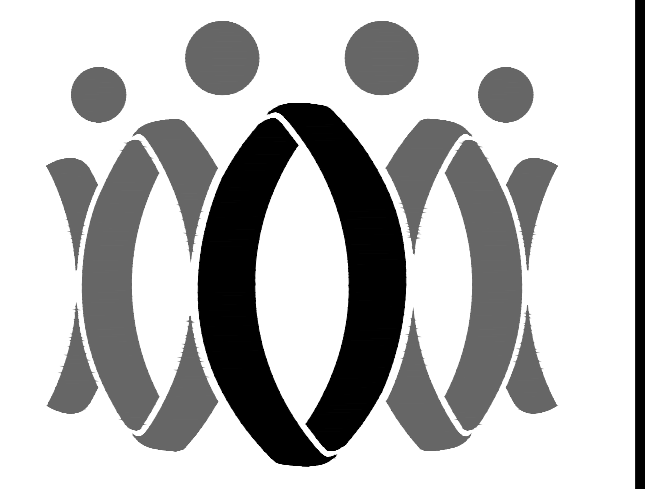
NOTE:  
CEILING FINISHES NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 CLASSROOM BUILDING 'B' RECONSTRUCTION HVAC PLAN  
3/32" = 1'-0"



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-120329 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 11/23/2020

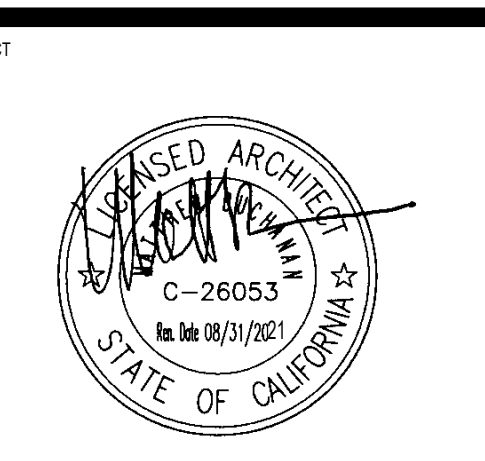


**FLEWELLING & MOODY**  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 213.543.5300  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation



CONSULTANT  
**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247  
SANRILLO OFFICE  
10000 SANRILLO BLVD  
TEL: 925.942.1100  
GLENDALE OFFICE  
10000 GLENDALE BLVD  
TEL: 925.942.1100



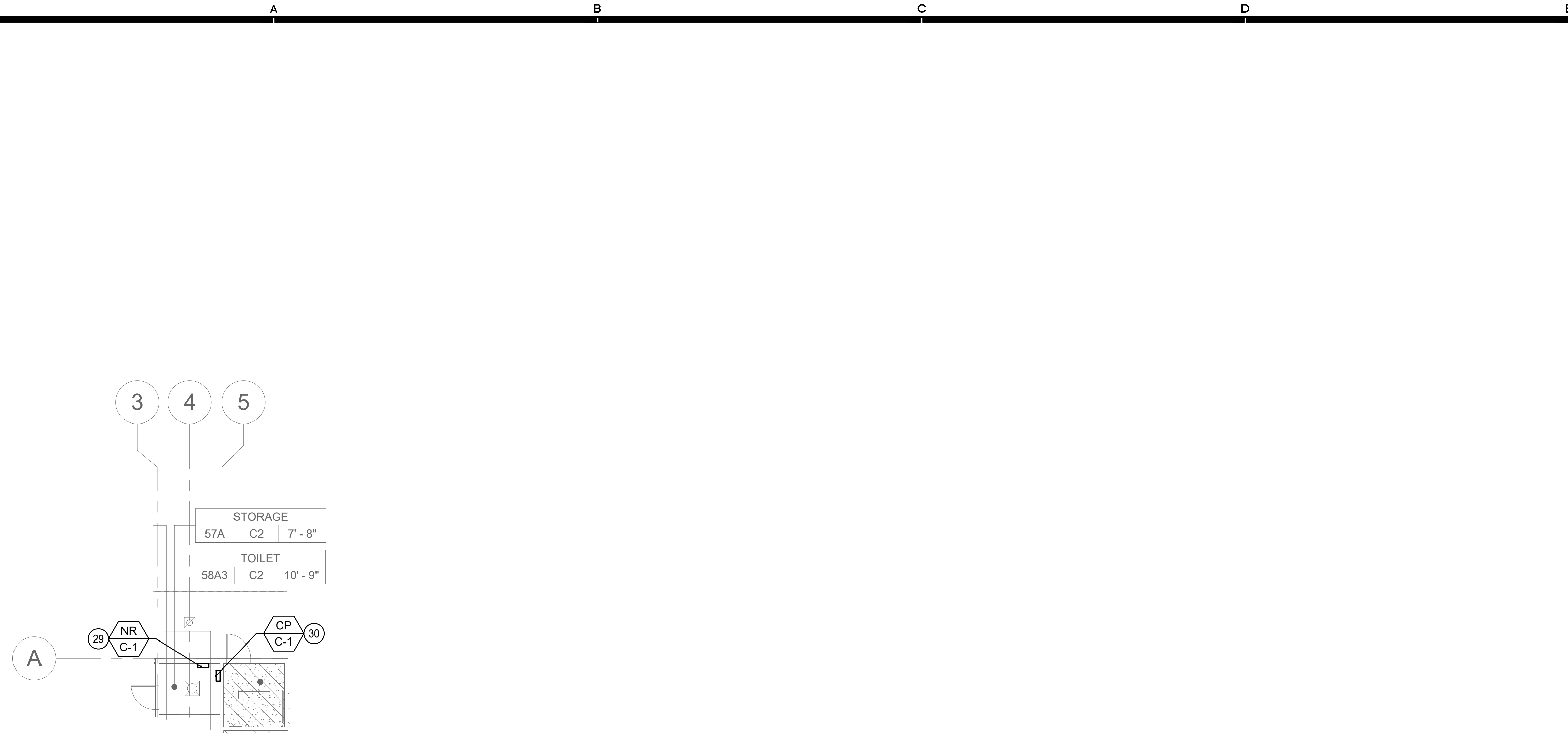
Drawn by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Revisions:

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

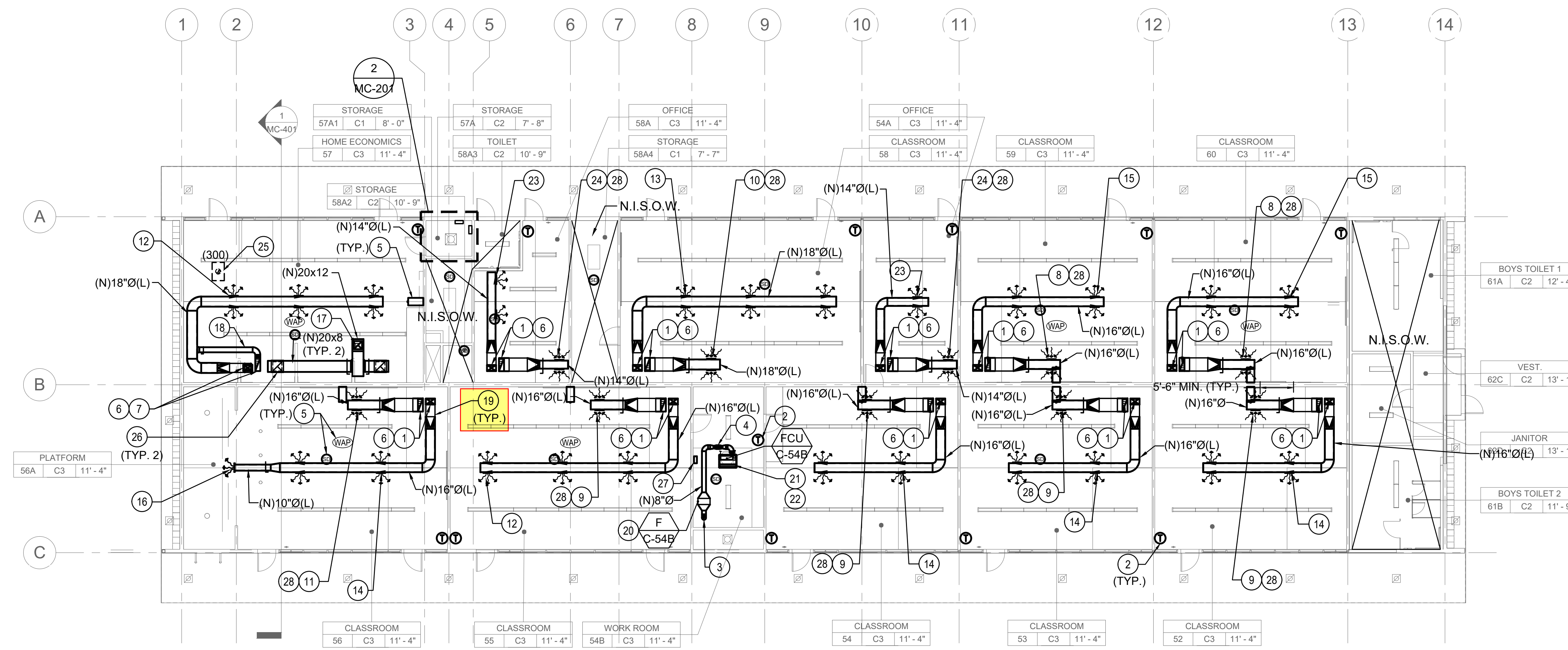
CLASSROOM BUILDING 'B'  
RECONSTRUCTION  
HVAC PLAN

Job No:  
2847.0200  
Date:  
10/23/2020  
**MB-201**



NOTE:  
ENLARGED PLAN IS TO SHOW LOCATIONS OF THE CONTROL  
PANELS. REFER TO CONTROLS RISER DIAGRAMS FOR WIRING.

2 CONTROL PANELS ENLARGED PLAN  
1/8" = 1'-0"

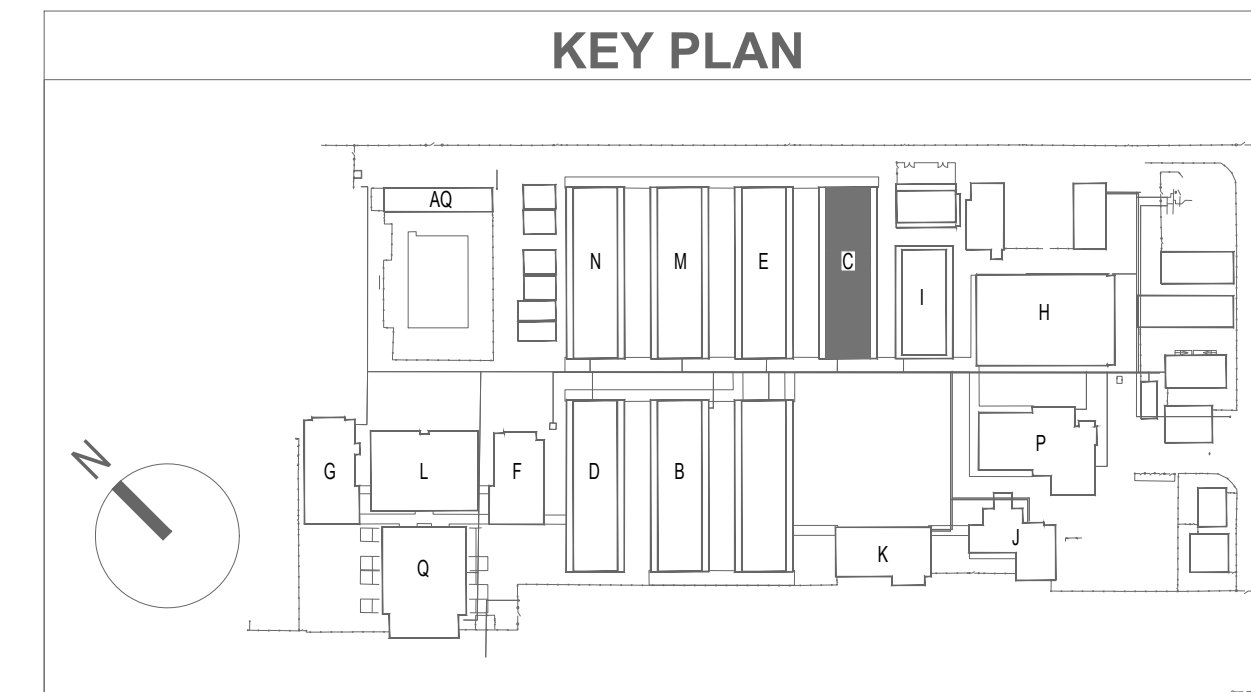


1 CLASSROOM BUILDING 'C' HVAC PLAN  
3/32" = 1'-0"

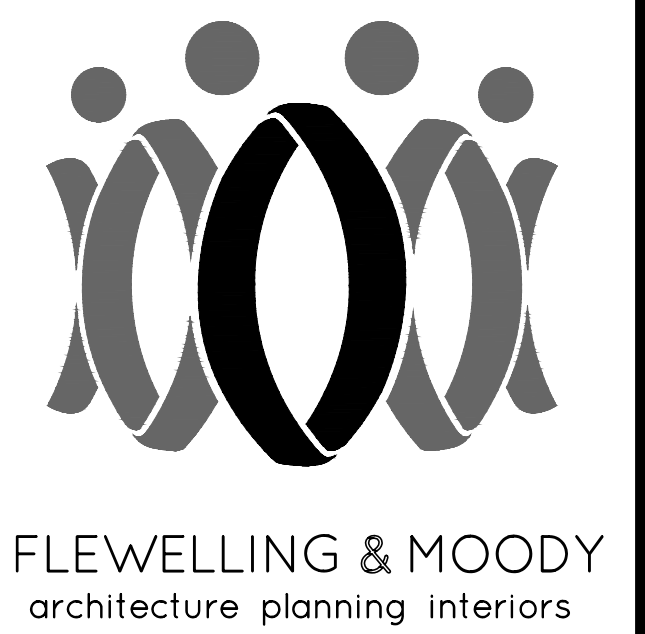
CONSTRUCTION KEY NOTES

- 1 (N) 18x12 SA AND (N) 10x26 RA DUCTS FROM RTU UNIT ON ROOF.
- 2 (N) WALL MOUNTED THERMOSTAT. PROVIDE (N) THERMOSTAT WITH INSULATED MOUNTING BACKING WHEN MOUNTED ON EXTERIOR WALLS.
- 3 (N) 8" Ø OA DUCT UP THRU ROOF TO ROOF CAP.
- 4 (N) OUTSIDE AIR INLINE BOOSTER.
- 5 (E) WAP, SD AND PROJECTORS SHOWN FOR REFERENCE ONLY.
- 6 ELECTRICAL AND FIRE ALARM CONTRACTOR TO PROVIDE CO SENSOR ADJACENT TO THE FIRST SUPPLY DIFFUSER/REGISTER.
- 7 (N) 18x12 SA AND (N) 10x26 RA DUCTS FROM RTU UNIT ON ROOF. CAP RETURN DUCT BELOW (N) 8x10 BY-PASS DUCT CONNECTION.
- 8 (N) 24x10 RR @ 650 CFM (TYP. 2)
- 9 (N) 22x10 RR @ 600 CFM (TYP. 2)
- 10 (N) 26x10 RR @ 675 CFM (TYP. 2)
- 11 (N) 26x10 RR @ 700 CFM (TYP. 2)
- 12 (N) 8x8 SR @ 200 CFM (TYP. 6)
- 13 (N) 10x8 SR @ 225 CFM (TYP. 6)
- 14 (N) 12x8 SR @ 300 CFM (TYP. 4)
- 15 (N) 12x8 SR @ 325 CFM (TYP. 4)
- 16 (N) 8x8 SR @ 200 CFM
- 17 (N) 16x16 EXHAUST DUCT UP TO EF/C-57 ON ROOF
- 18 (N) 8x10(L) BY-PASS DUCT WITH MODULATING BY-PASS DAMPER CONTROLLED BY RTU APPLICATION CONTROLLER SET @ 300 CFM
- 19 (N) DUCT SILENCER (TYP.)
- 20 (N) OUTSIDE AIR FILTER BOX.
- 21 (N) REFRIGERANT PIPING UP THRU ROOF TO ROOF MOUNTED HEAT PUMP.
- 22 (N) CONDENSATE PIPING CONNECTION. FOR CONTINUATION SEE PLUMBING PLANS.
- 23 (N) 14x8 SR @ 350 CFM (TYP. 2)
- 24 (N) 14x8 RR @ 350 CFM (TYP. 2)
- 25 (E) KITCHEN HOOD TO REMAIN. SHOWN FOR REFERENCE ONLY.
- 26 (N) EXHAUST CEILING REGISTER MIN. 450 CFM/MAX. 600 CFM EACH (TYP. 2)
- 27 (N) 24V THERMOSTAT INTERFACE.
- 28 PROXIMITY TO LIGHTS MAY REQUIRE BRACING.
- 29 PROVIDE NEW 120V NETWORK LINK WITH ALL RELATED ACCESSORIES. PROVIDE MOUNTING AS REQUIRED. SEE ELECTRICAL FOR MORE INFORMATION.
- 30 PROVIDE NEW 120V CONTROL PANEL WITH ALL RELATED ACCESSORIES. PROVIDE MOUNTING AS REQUIRED. SEE ELECTRICAL FOR MORE INFORMATION.

NOTE:  
CEILING FINISHES NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-120329 INC.  
REVIEWED FOR  
SS  FLS  ACS   
DATE: 11/23/2020



HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 213.543.5300  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation



CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247

CHARLLO OFFICE  
10000 WILSON BLVD #100  
LOS ANGELES, CA 90024  
TEL: 310.441.1111

GLENNDALE OFFICE  
10000 WILSON BLVD #100  
LOS ANGELES, CA 90024  
TEL: 310.441.1111



Drawn by: \_\_\_\_\_

Checked by: \_\_\_\_\_

Revisions:

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

CLASSROOM BUILDING 'C'  
RECONSTRUCTION  
HVAC PLAN

Job No:  
2847 0200  
Date:  
10/23/2020

**MC-201**

**SECTION 23 33 01**  
**AIR DUCT SILENCERS**

**PART 1 - GENERAL**

- 1.1 Basis-of-Design Product: Silencers shall be Vibro-Acoustics or approved equal.
- 1.2 Alternate manufacturers must request and obtain written approval by the Engineer to bid the project at least 10 day prior to the bid due-date. As a condition of pre-approval, alternate manufacturers must submit to the Engineer a minimum of twenty (20) different HVAC silencer test reports. Each report shall be for a silencer tested in full accordance with the ASTM E-477-13 silencer test standard in an aero-acoustic test facility which is NVLAP accredited for the ASTM E477-13 standard. Each test shall have been conducted within the last 12 month period. A copy of the laboratory's NVLAP accreditation certificate must be included with the submitted reports. Any changes to the specifications must be submitted and approved in writing by the Engineer at least 10 days prior to the bid due-date.
- 1.3 If products other than those of the basis of design manufacturer are supplied on the project, the **purchasing contractor** assumes full performance, project schedule and monetary responsibility for meeting the project noise criteria, including any retrofit work that may be required
- 1.4 SUBMITTALS
- A. Performance Data:
1. Silencer manufacturer to provide submittal drawings detailing all duct silencer data specified in the mechanical drawing schedule.
  2. The silencer manufacturer shall provide, for approval, acoustical system calculations for all duct systems with silencers to demonstrate that the submitted silencers will reduce mechanical fan noise to following NC-Levels in the occupied space. Use sound power levels of actual equipment to be installed on project. Analysis shall include breakout noise calculations.
  3. Supplier shall be responsible for the overall system pressure loss of the installation based on duct conditions upstream and downstream of the silencer to ensure required airflow is provided. Supplier shall submit detailed pressure drop analysis for the installation and detailed procedure outlining methodology for site measurement of overall system pressure loss for approval prior to manufacture.
    - a. Silencer internal design will provide ideal pressure drop value as scheduled
    - b. Installed pressure drop including system effect is maintained at maximum as scheduled.
  4. Acoustical and pressure drop calculations must be supplied with PE/P.Eng stamp at the time of submittal
- B. Source quality-control reports:
1. Silencer manufacturer to provide a copy of their laboratory NVLAP accreditation certificate for the ASTM E-477-06a test standard with the submittals. Data from non-NVLAP accredited test facilities will not be accepted.

## **PART 2 - PRODUCTS**

### **2.1 DUCT SILENCERS**

#### **A. General Requirements:**

1. Silencers shall be of the size, configuration, capacity and acoustic performance as scheduled on the drawings. All silencers shall be factory fabricated and supplied by the same manufacturer. Provide with non-fibrous materials.
2. Transitions on inlet and outlet will not be accepted. Silencers shall fit the ducting system they are installed in without requiring duct fittings/transitions. Silencer inlet and outlet must match duct dimensions. See contract documents for silencer configuration. Non-basis of design suppliers must submit details of internal geometry of silencers to be supplied.
3. Silencer inlet and outlet connection dimensions must be equal to the duct sizes shown on the drawings. Duct transitions at silencers are not permitted unless shown on the contract drawings.
4. Silencers shall be constructed in accordance with ASHRAE and SMACNA standards for the pressure and velocity classification specified for the air distribution system in which it is installed. Material gauges noted in other sections are minimums. Material gauges shall be increased as required for the system pressure and velocity classification. The silencers shall not fail structurally when subjected to a differential air pressure of 8 inches water gauge.
5. All casing seams and joints shall be lock-formed and sealed or stitch welded and sealed except as noted in Section G below, to provide leakage-resistant construction. Airtight construction shall be achieved by use of a duct-sealing compound supplied and installed by the contractor at the jobsite.
6. All perforated steel shall be adequately stiffened to insure flatness and form.
7. Fire-Performance Characteristics: Silencer assemblies, sealants, and acoustical spacer, shall have flame-spread index not exceeding 25 and smoke-developed index not exceeding 50 when tested according to ASTM E 84, NFPA 255 or UL 723.
8. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1-2007.

**B. Rectangular Silencers including models RD, RED: Outer casing shall be ASTM A 653/A 653M, G90 galvanized sheet steel. Gauge 22 and Gauge 18 respectively. Inner perforated metal liner: ASTM A 653/A 653M, G90 galvanized sheet steel, Gauge 26 and Gauge 22**

#### **C. Principal Sound-Absorbing Mechanism:**

1. Dissipative silencers:
  - a. Models RD, RED: type with acoustic media. Media shall be of acoustic quality, shot-free glass fiber insulation with long, resilient fibers bonded with a thermosetting resin. Glass fiber density and compression shall be as required to insure conformance with laboratory test data. Glass fiber shall be packed with a

minimum of 15% compression during silencer assembly. Media shall be resilient such that it will not crumble or break, and conform to irregular surfaces. Media shall not cause or accelerate corrosion of aluminum or steel. Mineral wool will not be permitted as a substitute for glass fiber.

- D. HTL Casings: Where indicated on the silencer schedule, silencers shall have high transmission loss (HTL) walls externally applied and completely sealed to the silencer casing by the silencer manufacturer to assure quality controlled transmission loss. The HTL walls shall consist of media, airspace, mass and outer protective metal skin, as required, to obtain the specified room noise criteria. Standard acoustical panels will not be accepted as HTL walls. If requested by the Engineer, break-out noise calculations for each air handling and fan system shall be provided with the silencer submittal to insure compliance with the room noise criteria. Break-out noise calculations shall be based on the sound power levels of the specified equipment.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Install silencer according to manufacturer's written installation instructions.

**END OF SECTION**

| Tag No.    | Flow Rate (cfm) | PD (in.w.g.) | PD Sys Effects (in.w.g.) | DUCT SILENCER SCHEDULE |    |                           |     |     |     |      |      |      |      | Manufacturer | Model No.       |             |
|------------|-----------------|--------------|--------------------------|------------------------|----|---------------------------|-----|-----|-----|------|------|------|------|--------------|-----------------|-------------|
|            |                 |              |                          | Size (in)              |    | Minimum Insertion Loss Hz |     |     |     |      |      |      |      |              |                 |             |
|            |                 |              |                          | H                      | W  | 63                        | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |              |                 |             |
| RTU-B20-S  | 2500            | 0.09         | 0.15                     | 26                     | 34 | 60                        | 8   | 17  | 29  | 40   | 40   | 42   | 29   | 21           | Vibro-Acoustics | REMB-LV-F8  |
| RTU-B21-S  | 2400            | 0.21         | 0.36                     | 12                     | 18 | 72                        | 6   | 10  | 14  | 23   | 29   | 31   | 25   | 19           | Vibro-Acoustics |             |
| RTU-B22-S  | 1300            | 0.15         | 0.25                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-B24-S  | 1300            | 0.15         | 0.25                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-B25-S  | 1200            | 0.2          | 0.34                     | 12                     | 18 | 60                        | 8   | 12  | 21  | 27   | 29   | 34   | 25   | 18           | Vibro-Acoustics |             |
| RTU-B35-S  | 1200            | 0.2          | 0.34                     | 12                     | 18 | 60                        | 8   | 12  | 21  | 27   | 29   | 34   | 25   | 18           | Vibro-Acoustics |             |
| RTU-B36-S  | 1200            | 0.2          | 0.34                     | 12                     | 18 | 60                        | 8   | 12  | 21  | 27   | 29   | 34   | 25   | 18           | Vibro-Acoustics | REMB-LHV-F9 |
| RTU-B37-S  | 1200            | 0.2          | 0.34                     | 12                     | 18 | 60                        | 8   | 12  | 21  | 27   | 29   | 34   | 25   | 18           | Vibro-Acoustics |             |
| RTU-B38-S  | 1200            | 0.2          | 0.34                     | 12                     | 18 | 60                        | 8   | 12  | 21  | 27   | 29   | 34   | 25   | 18           | Vibro-Acoustics |             |
| RTU-B39-S  | 1200            | 0.2          | 0.34                     | 12                     | 18 | 60                        | 8   | 12  | 21  | 27   | 29   | 34   | 25   | 18           | Vibro-Acoustics |             |
| RTU-B40-S  | 1200            | 0.2          | 0.34                     | 12                     | 18 | 60                        | 8   | 12  | 21  | 27   | 29   | 34   | 25   | 18           | Vibro-Acoustics |             |
| RTU-B21-R  | -2400           | 0.18         | 0.31                     | 10                     | 26 | 36                        | 4   | 7   | 12  | 19   | 24   | 18   | 12   | 8            | Vibro-Acoustics | RMB-MV-F6   |
| RTU-B20-R  | -2500           | 0.18         | 0.3                      | 12                     | 46 | 60                        | 10  | 14  | 25  | 32   | 37   | 38   | 28   | 20           | Vibro-Acoustics | REMB-MLV-F8 |
| RTU-B22-R  | -1300           | 0.14         | 0.24                     | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-B23-R  | -1200           | 0.12         | 0.2                      | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-B24-R  | -1300           | 0.14         | 0.24                     | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-B35-R  | -1200           | 0.12         | 0.2                      | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-B36-R  | -1200           | 0.12         | 0.2                      | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-B37-R  | -1200           | 0.12         | 0.2                      | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-B38-R  | -1200           | 0.12         | 0.2                      | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-B39-R  | -1200           | 0.12         | 0.2                      | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-B40-R  | -1200           | 0.12         | 0.2                      | 10                     | 26 | 36                        | 6   | 8   | 15  | 23   | 30   | 24   | 15   | 11           | Vibro-Acoustics |             |
| RTU-C52-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-C53-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-C54-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-C54A-S | 700             | 0.11         | 0.18                     | 12                     | 18 | 60                        | 10  | 16  | 28  | 35   | 46   | 45   | 30   | 20           | Vibro-Acoustics |             |
| RTU-C55-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-C57-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics | REMB-MHV-F9 |
| RTU-C56-S  | 1400            | 0.17         | 0.29                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-C58-S  | 1400            | 0.17         | 0.29                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-C59-S  | 1300            | 0.15         | 0.25                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-C60-S  | 1300            | 0.15         | 0.25                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-C58A-S | 700             | 0.11         | 0.18                     | 12                     | 18 | 60                        | 10  | 16  | 28  | 35   | 46   | 45   | 30   | 20           | Vibro-Acoustics |             |
| RTU-C52-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-C53-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-C54-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-C55-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-C57-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-C56-R  | -1400           | 0.07         | 0.23                     | 26                     | 10 | 36                        | 5   | 8   | 13  | 17   | 18   | 14   | 11   | 9            | Vibro-Acoustics | REMB-HV-F6  |
| RTU-C58-R  | -1400           | 0.07         | 0.23                     | 26                     | 10 | 36                        | 5   | 8   | 13  | 17   | 18   | 14   | 11   | 9            | Vibro-Acoustics |             |
| RTU-C59-R  | -1300           | 0.06         | 0.2                      | 26                     | 10 | 36                        | 5   | 8   | 13  | 17   | 18   | 14   | 11   | 9            | Vibro-Acoustics |             |
| RTU-C60-R  | -1300           | 0.06         | 0.2                      | 26                     | 10 | 36                        | 5   | 8   | 13  | 17   | 18   | 14   | 11   | 9            | Vibro-Acoustics | REMB-MV-F9  |
| RTU-C54A-R | -700            | 0.04         | 0.13                     | 26                     | 10 | 36                        | 6   | 9   | 17  | 21   | 23   | 18   | 13   | 11           | Vibro-Acoustics |             |
| RTU-C58A-R | -700            | 0.04         | 0.13                     | 26                     | 10 | 36                        | 6   | 9   | 17  | 21   | 23   | 18   | 13   | 11           | Vibro-Acoustics |             |
| RTU-D2-S   | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-D3-S   | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-D4-S   | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-D5-S   | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-D16-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-D17-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-D18-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-D19-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-D2-R   | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D3-R   | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D4-R   | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D5-R   | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D6-R   | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D7-R   | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D8-R   | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D9-R   | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D10-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D11-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D12-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D13-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D14-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-D15-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-E42-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E43-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E44-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E45-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E46-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E47-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics | REMB-MHV-F9 |
| RTU-E47A-S | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E48-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E49-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E50-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E51-S  | 1200            | 0.13         | 0.21                     | 12                     | 18 | 60                        | 7   | 10  | 15  | 24   | 29   | 33   | 25   | 19           | Vibro-Acoustics |             |
| RTU-E42-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-E43-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16   | 12   | 10           | Vibro-Acoustics |             |
| RTU-E44-R  | -1200           | 0.07         | 0.26                     | 26                     | 10 | 36                        | 5   | 8   | 15  | 19   | 20   | 16</ |      |              |                 |             |

*Bid Clarification Addendum #1*

**Attachment B**

**Architect's Addendum #1**

**Rio Mesa HS**



December 22, 2020

The following changes and/or clarifications shall be made to the drawings and specifications and all other conditions shall remain the same. All changes and/or clarifications provided shall be included in the scope of contracted work. Pursuant to PR13-01 all work that requires approval by the DSA shall not begin until said approvals are obtained.

### **SPECIFICATIONS**

1. Specification Section 09 51 13 Acoustical Tile Ceilings:
  - a. **Revise** item 2.3A to read “Basis of design product: As indicated on the drawings.”

### **DRAWINGS**

1. **Sheet T0.01**
  - a. **Add** note: “The G.C. shall be responsible for providing all necessary demolition and new construction at restrooms & drinking fountains, including utility layout, sizing, and verification. Refer to corresponding architectural building sheets “A(Bldg Letter)-501” for required parameters and areas of scope. Include in bid amount both the cost of preparing shop drawings complying with all applicable codes for improvements shown and the cost of performing the work for each building. All new toilet partitions shall be HDPE, see specification.”
  - b. **Add** note: “In addition to the extents of demolition & replacement shown on the architectural plans. G.C. shall remove all existing finishes required for installation of all duct hangers, blocking, and new structural members. All removed finishes shall be replaced, patched, repaired, and painted to match the existing adjacent finishes. Refer to structural drawings for member locations and Finish Schedules for finishes to match. Typical of all buildings”



- c. **Add** note: "Basis of design for all areas receiving 12x12 glued on tile shall be 'Armstrong 12x12 Straight Drilled Tile, Adhered' as manufactured by Classic Acoustical Tel No. 760-775-7745 Contact: Jacob."
  - d. **Add** note: "Where Mechanical and Architectural dimensions conflict, the most restrictive dimension shall govern to ensure roof edge distance is a minimum of 10'-0" and minimum outdoor air intake clearances are maintained."
  - e. **Add** note: "Coordinate with owner during the start of demolition. All electrical equipment and devices with salvage value as determined by the owner shall be delivered to the designated District warehouse without extra cost to the owner."
  - f. **Add** note: "Contractor shall take precautions necessary to protect existing specialty flooring such as the gym wood floor, and wrestling mats. Provide protective plastic sheets, plywood sheathing, etc. to ensure floor is not damaged. Any damage resulting shall be repaired at no cost to District."
2. **Sheet A1.01**
- a. **Add** note: "G.C. shall Patch & Repair existing built up roof membranes & existing roof shingles affected by project scope. Refer to Roof Type Table for roof type at each building. See typical roof details on sheet A9.04. Provide a separate square foot unit cost for cover board, insulation board, and sheathing replacement." See attachment 1A.
  - b. **Add** note: "Where site utility distribution requires trenching at existing pavers, monuments, plaques, and similarly unique conditions, G.C. shall photo document existing condition, salvage and reinstall in place to like new condition."
  - c. **Add** note: "Provide Transom Infill as per Addendum No.1 detail 14/A9.02 at all exterior doors buildings B, C, D, E, I, M, and N"
  - d. **Add** notes to sheet A1.01 as shown in the clouded areas on Addendum No. 1 detail 1/-.
3. **Sheet A1.05**
- a. **Replace** detail 10/A1.05 in its entirety with Addendum No.1 detail 10/-.
  - b. **Replace** detail 11/A1.05 in its entirety with Addendum No.1 detail 11/-.
4. **Sheet A9.02**
- a. **Add** Addendum No. 1 detail 14/- to Sheet A9.02.
5. **Sheet A9.03**
- a. **Replace** detail 13/A9.03 in its entirety with Addendum No. 1 detail 13/-.
  - b. **Add** detail 14/A9.03 as per Addendum No. 1 detail 14/-.
  - c. **Add** detail 15/A9.03 as per Addendum No. 1 detail 15/-.
6. **Sheet S-102**
- a. **Add** note to detail 7/S102 to read "For thickened edge and additional requirements at RTU Q-1 equipment pad, see 10/A1.05"
7. **Sheet S-303**
- a. **Replace** sheet S-303 in its entirety with Addendum No. 1 S-303.
8. **Sheet SB-201**
- a. **Revise** RTU-B20 enlarged plan reference to 4/SB-201.
9. **Sheet SQ-202**
- a. **Replace** sheet SQ-202 in its entirety with Addendum No. 1 SQ-202.
10. **Sheet M-601**
- a. **Replace** detail 1/M-601 in its entirety with Addendum No. 1 detail 1/M-601.

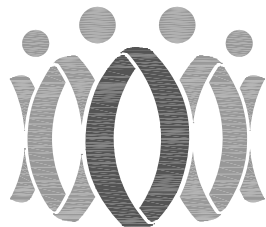
11. **Sheet M-603**
  - a. **Revise** detail 1/M-603 per clouded changes shown on Addendum No. 1 detail 3/M-603.
12. **Sheet M-607**
  - a. **Revised** sheet M-607 per clouded changes shown on Addendum No. 1 Sheet M-607.
13. **Sheet MQ-201**
  - a. **Replace** sheet MQ-201 in its entirety with Addendum No. 1 Sheet MQ-201.
14. **Sheet MQ-202**
  - a. **Replace** sheet MQ-202 in its entirety with Addendum No. 1 Sheet MQ-202.
15. **Sheet MQ-401**
  - a. **Replace** sheet MQ-401 in its entirety with Addendum No. 1 Sheet MQ-401.
16. **Sheet PB-201**
  - a. **Revise** sheet PB-201 in its entirety with Addendum No. 1 Sheet PB-201.
17. **Sheet PQ-201**
  - a. **Replace** sheet PQ-201 in its entirety with Addendum No. 1 Sheet PQ-201.
18. **Sheet E-107F**
  - a. **Add** Addendum No. 1 Sheet E-107F in its entirety.
19. **Sheet E-107G**
  - a. **Add** Addendum No. 1 Sheet E-107G in its entirety.
20. **Sheet EB-201D**
  - a. **Add** Addendum No. 1 Sheet EB-201D in its entirety.

Flewellling & Moody,

  
\_\_\_\_\_  
Irvine Carrillo

| (E) ROOFING TYPES |                    |
|-------------------|--------------------|
| BUILDING          | ROOFING TYPE       |
|                   |                    |
| AQUATICS          | BUILT-UP           |
| B                 | BUILT-UP           |
| C                 | BUILT-UP           |
| D                 | BUILT-UP           |
| E                 | BUILT-UP           |
| H                 | BUILT-UP           |
| I                 | BUILT-UP           |
| J                 | BUILT-UP           |
| K                 | BUILT-UP           |
| L                 | BUILT-UP           |
| M                 | BUILT-UP           |
| N                 | BUILT-UP           |
| P                 | BUILT-UP           |
| Q                 | BUILT-UP / SHINGLE |
| COVERED WALKWAY   | BUILT-UP           |

ATTACHMENT 1A



FLEWELLING & MOODY  
architecture planning interiors

Pasadena - 323 543 8300

www.flewelling-moody.com

Lancaster - 661 949 0771

## ADDENDUM

### NO. 1

RMHS ALTERATION PROJECT  
for  
OUHSD  
545 CENTRAL AVE  
OXNARD, CA 93036

Date

12/22/2020

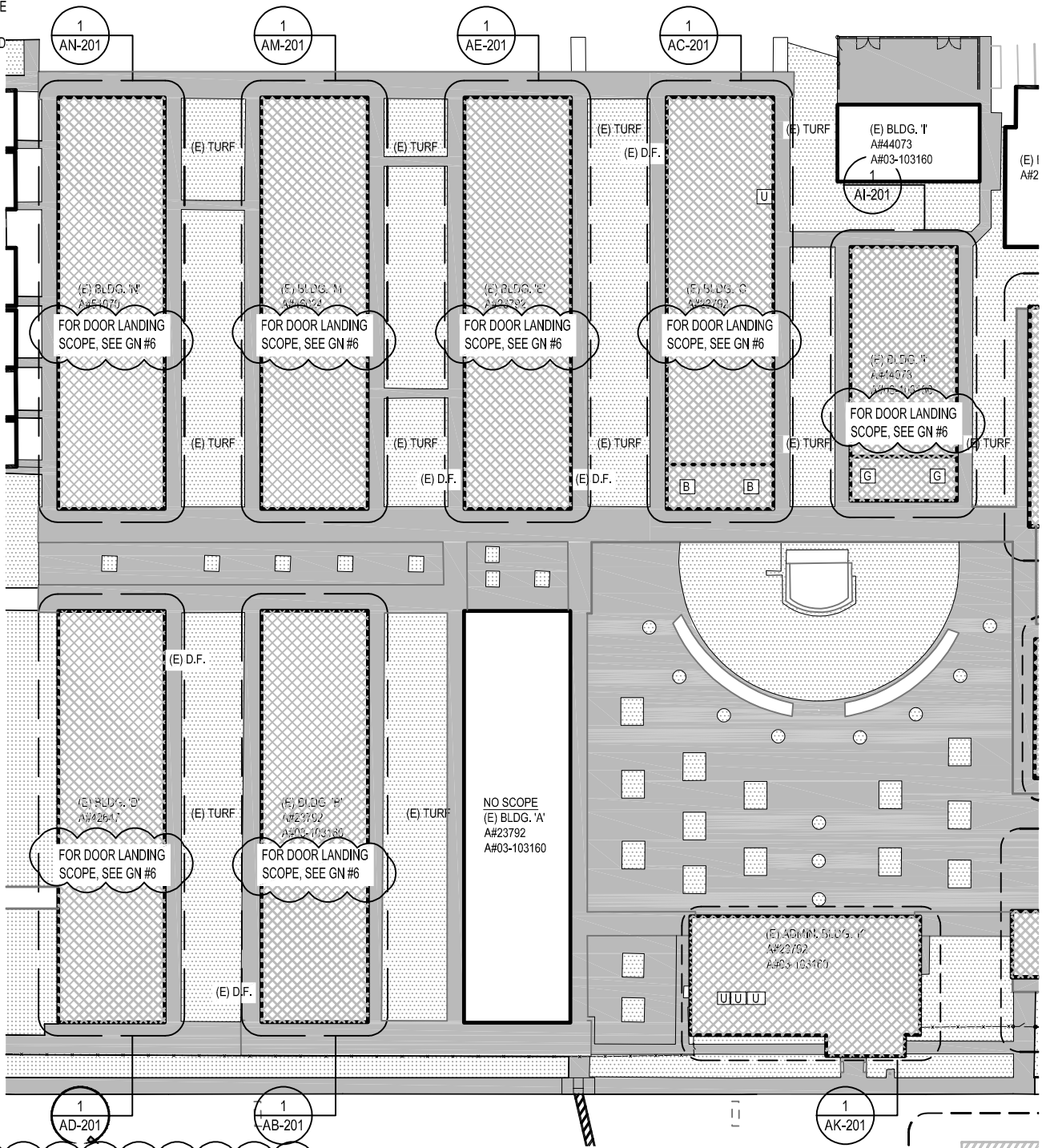
Job No.

2847.0200

Sheet No.

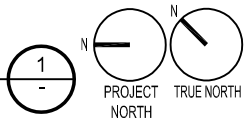
A1.01

NOTE: THE INTENT OF THIS DRAWING IS TO INDICATE ONLY THE REVISIONS SHOWN IN THE CLOUDED AREAS, ALL OTHER CONDITIONS REMAIN UNCHANGED.

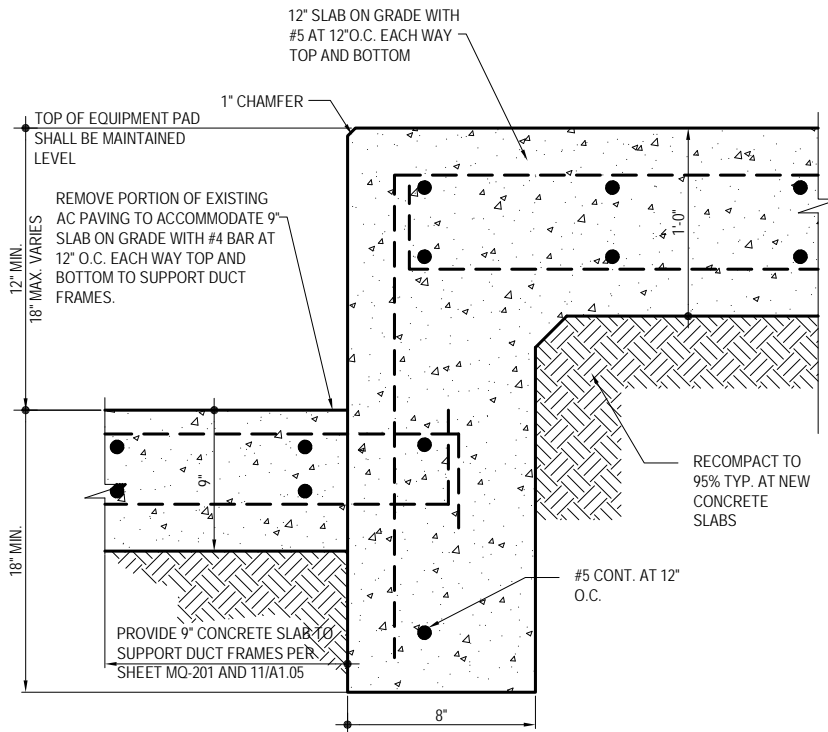


GENERAL NOTE:  
7. AT ALL CLASSROOM BUILDINGS PROVIDE INFILL AT EXISTING TRANSOM PANE ABOVE DOOR. SEE 14/A9.02

**SITE PLAN**  
SCALE : 1" = 80'-0"



|   |  |   |
|---|--|---|
| <br><b>FLEWELLING &amp; MOODY</b><br>architecture planning interiors<br><small>Pasadena - 323 543 8300    www.flewelling-moody.com    Lancaster - 661 949 0771</small> | <b>ADDENDUM</b>  |   |
|   | <b>NO. 1</b>   |   |
|   | RMHS ALTERATION PROJECT<br>for<br>OUHSD<br>545 CENTRAL AVE<br>OXNARD, CA 93036 | <small>Date</small><br>12/22/2020<br><small>Job No.</small><br>2847.0200<br><small>Sheet No.</small><br>A1.01 |
|   |  |   |

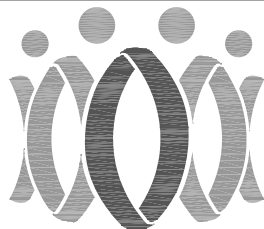


## GROUND UNIT EQUIPMENT PAD

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

PROJECT NUMBER -  
DETAIL IDEN. -  
SHEET REFERENCE -

10



FLEWELLING & MOODY  
architecture planning interiors

Pasadena - 323 543 8300

www.flewelling-moody.com

Lancaster - 661 949 0771

## ADDENDUM

### NO. 1

RMHS ALTERATION PROJECT  
for  
OUHSD  
545 CENTRAL AVE  
OXNARD, CA 93036

Date

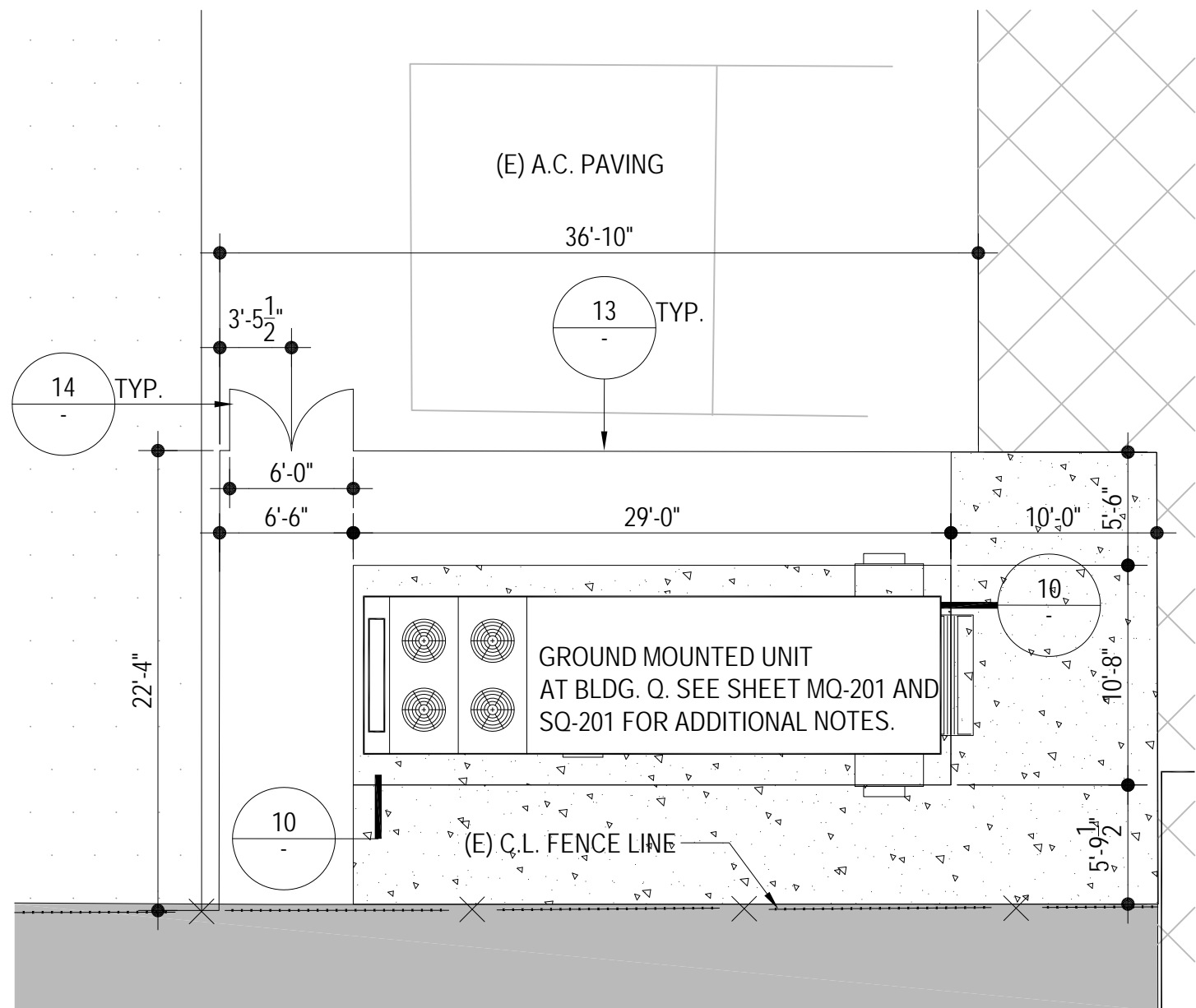
12/22/2020

Job No.

2847.0200

Sheet No.

A1.05

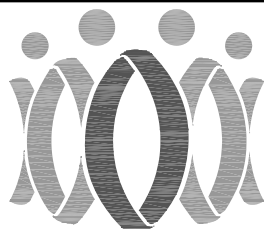


# PARTIAL ENLARGED SITE RECONSTRUCTION PLAN AT HVAC EQUIPMENT

SCALE : 1/16"=1'-0"

PROJECT NUMBER =  
DETAIL IDEN =  
SHEET REFERENCE =

11  
-



FLEWELLING & MOODY  
architecture planning interiors

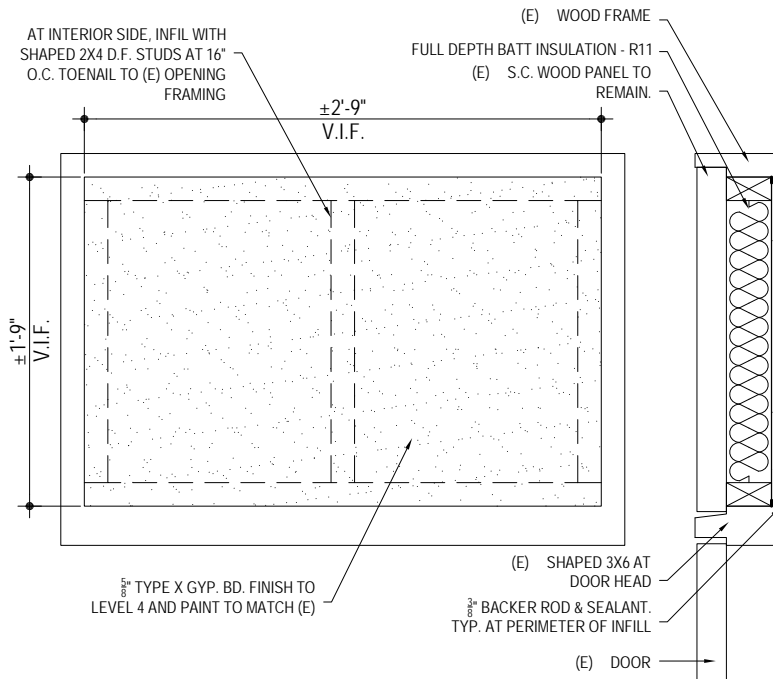
Pasadena - 323 543 8300    www.flewelling-moody.com    Lancaster - 661 949 0771

## ADDENDUM

### NO. 1

RMHS ALTERATION PROJECT  
for  
OUHSD  
545 CENTRAL AVE  
OXNARD, CA 93036

|           |            |
|-----------|------------|
| Date      | 12/22/2020 |
| Job No.   | 2847.0200  |
| Sheet No. | A1.05      |

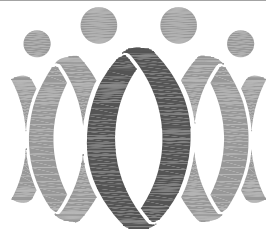


TYP. TRANSOM PANE INFILL

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

PROJECT NUMBER -  
 DETAIL IDEN. -  
 SHEET REFERENCE -

14



FLEWELLING & MOODY  
 architecture planning interiors

Pasadena - 323 543 8300

www.flewelling-moody.com

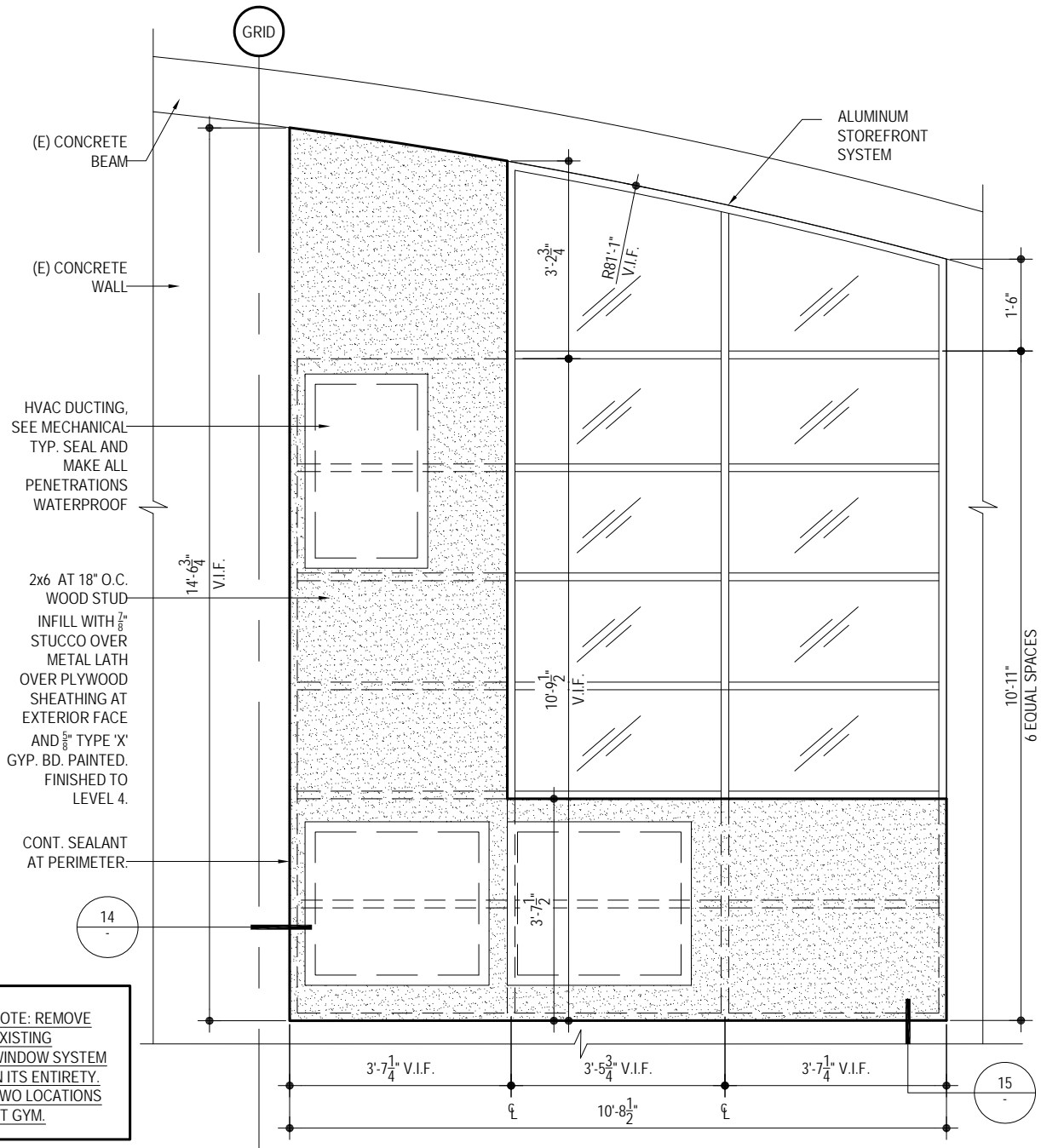
Lancaster - 661 949 0771

ADDENDUM

NO. 1

RMHS ALTERATION PROJECT  
 for  
 OUHSD  
 545 CENTRAL AVE  
 OXNARD, CA 93036

|           |            |
|-----------|------------|
| Date      | 12/22/2020 |
| Job No.   | 2847.0200  |
| Sheet No. | A9.02      |

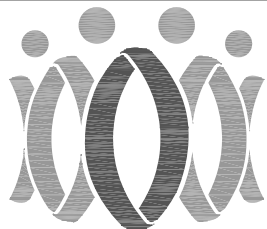


NOTE: REMOVE EXISTING WINDOW SYSTEM IN ITS ENTIRETY. TWO LOCATIONS AT GYM.

# DUCT ENTRY AT (E) WINDOW

SCALE : 3/8" = 1'-0"

13



FLEWELLING & MOODY  
architecture planning interiors

Pasadena - 323 543 8300    www.flewelling-moody.com    Lancaster - 661 949 0771

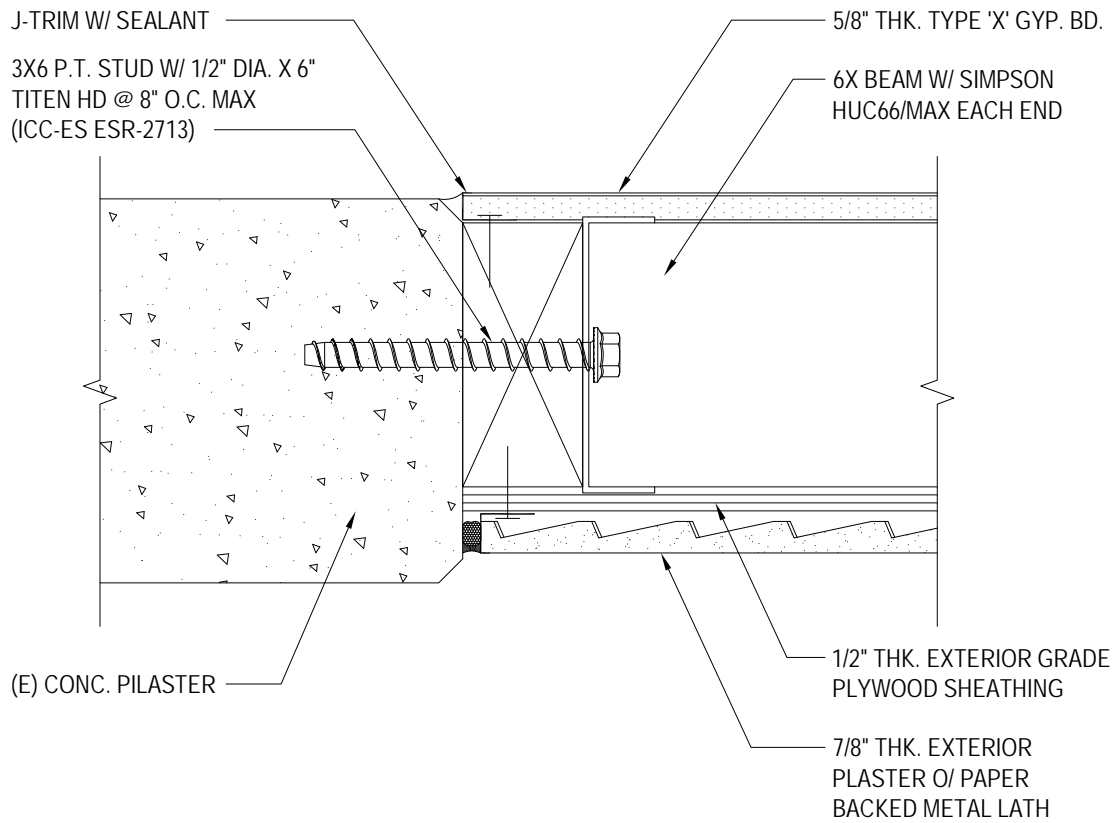
## ADDENDUM

### NO. 1

RMHS ALTERATION PROJECT  
for  
OUHSD  
545 CENTRAL AVE  
OXNARD, CA 93036

|           |            |
|-----------|------------|
| Date      | 12/22/2020 |
| Job No.   | 2847.0200  |
| Sheet No. | A9.03      |

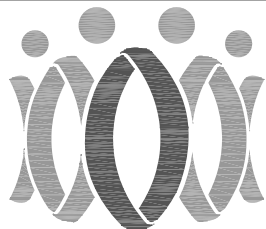




# INFILL WALL JAMB (E) CONC. OPENING

SCALE : 3" = 1'-0"

14  
-



FLEWELLING & MOODY  
architecture planning interiors

Pasadena - 323 543 8300

www.flewelling-moody.com

Lancaster - 661 949 0771

## ADDENDUM

### NO. 1

RMHS ALTERATION PROJECT  
for  
OUHSD  
545 CENTRAL AVE  
OXNARD, CA 93036

Date

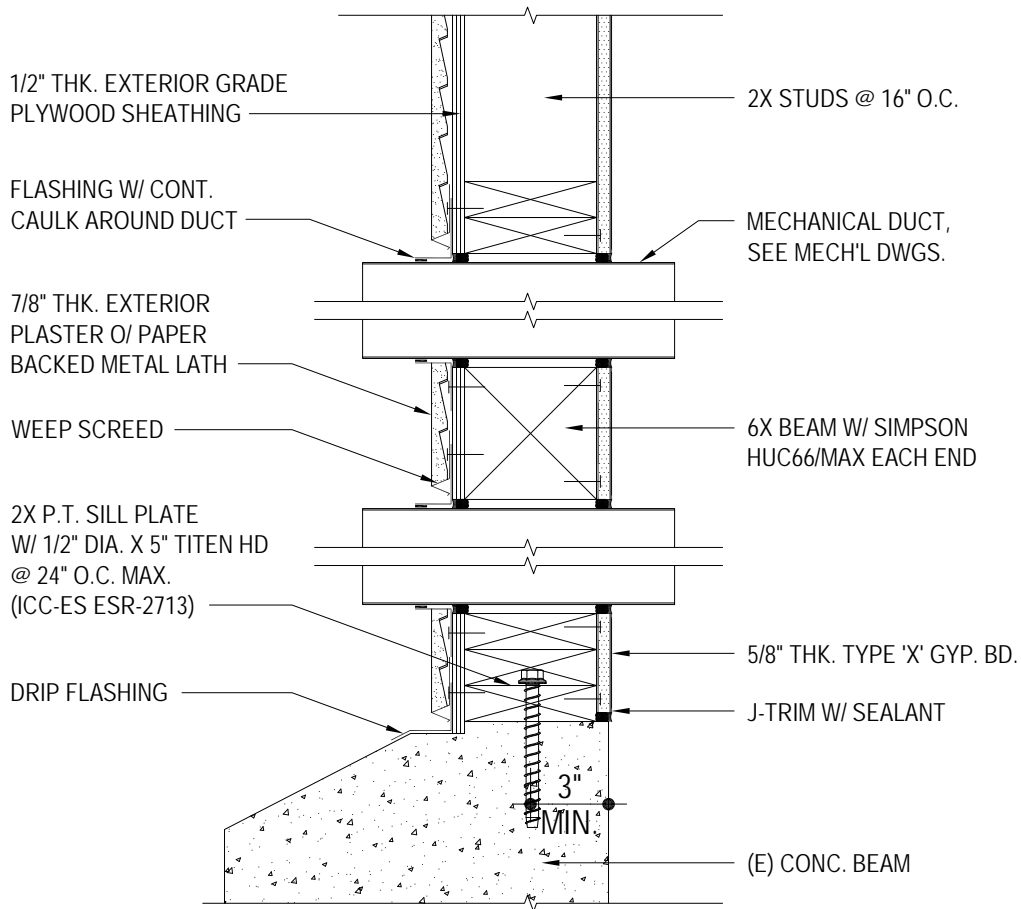
12/22/2020

Job No.

2847.0200

Sheet No.

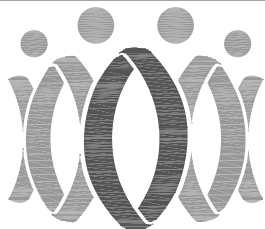
A9.03



# INFILL WALL SILL AT (E) CONC. OPENING

SCALE : 3" = 1'-0"

15  
-



FLEWELLING & MOODY  
architecture planning interiors

Pasadena - 323 543 8300

www.flewelling-moody.com

Lancaster - 661 949 0771

## ADDENDUM

### NO. 1

RMHS ALTERATION PROJECT  
for  
OUHSD  
545 CENTRAL AVE  
OXNARD, CA 93036

Date

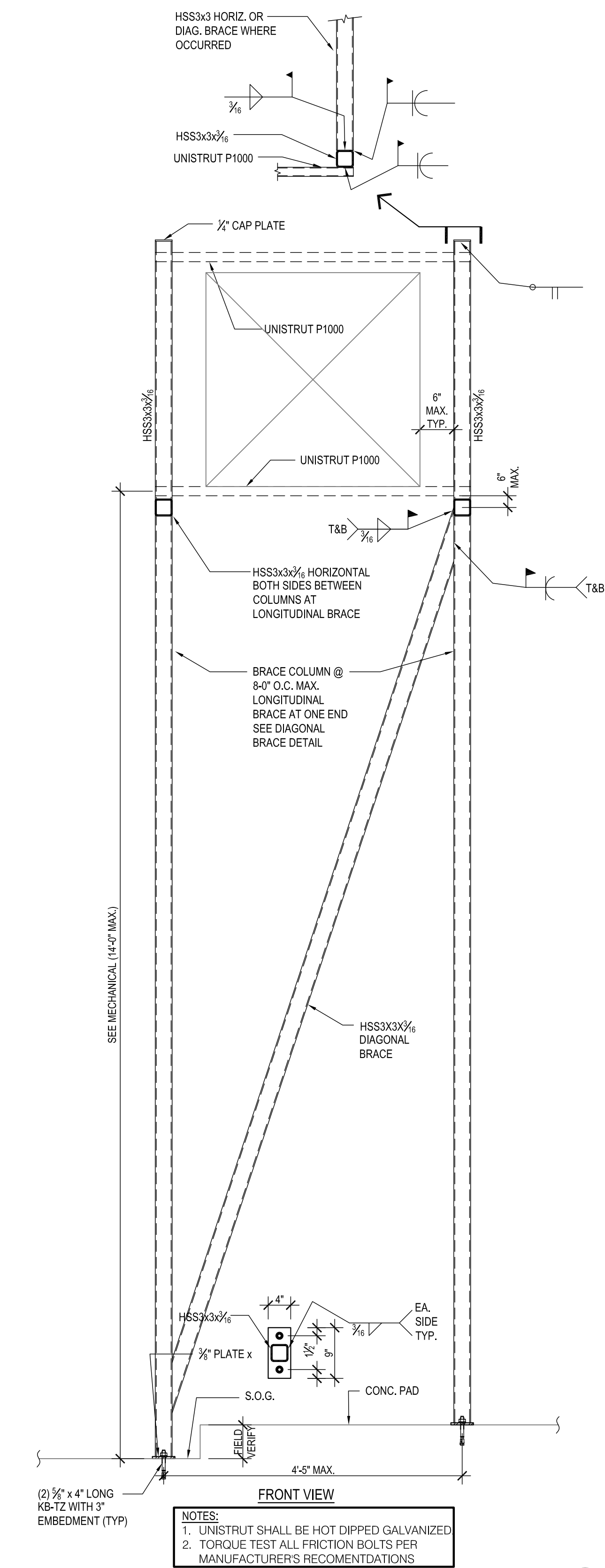
12/22/2020

Job No.

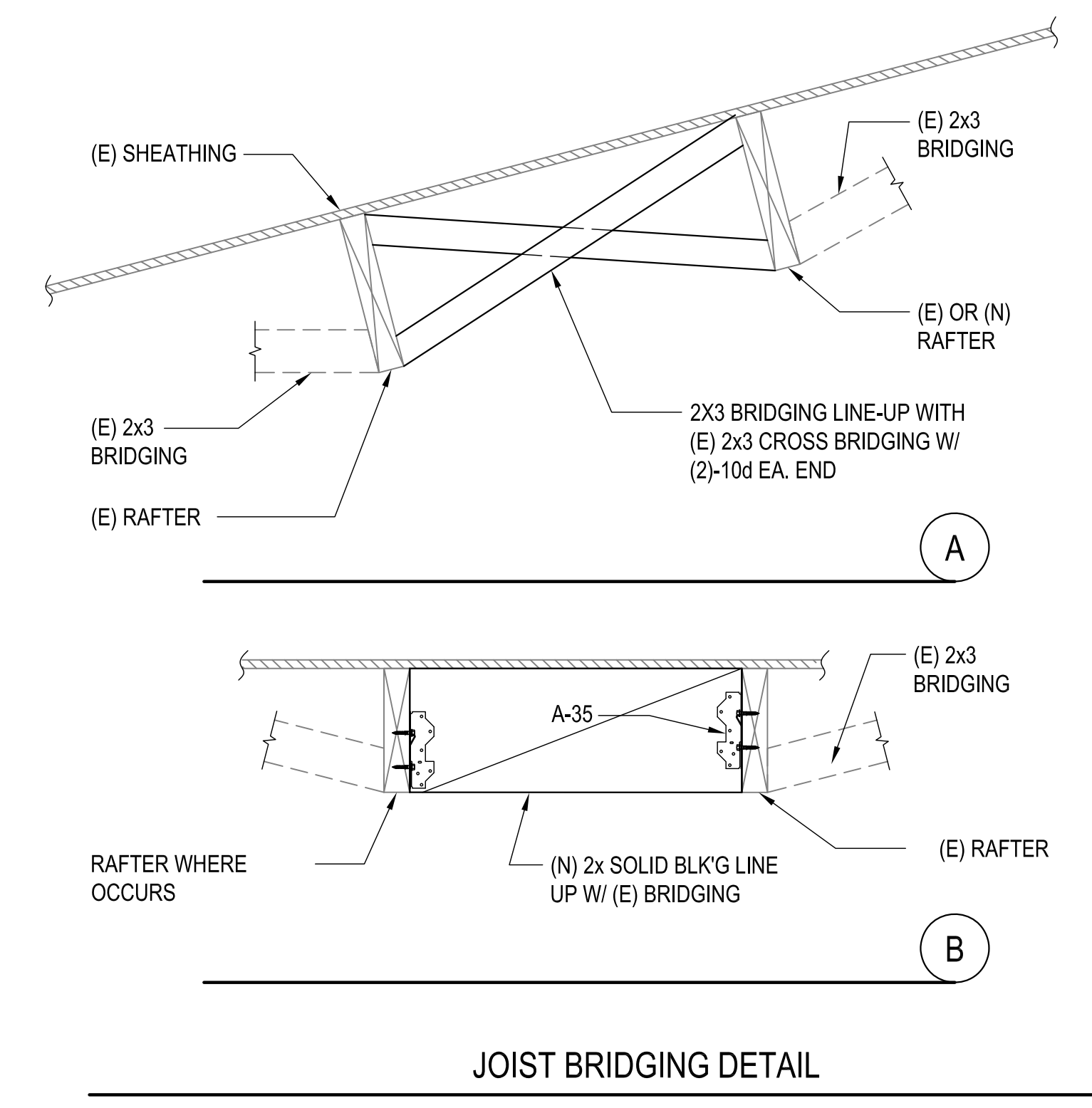
2847.0200

Sheet No.

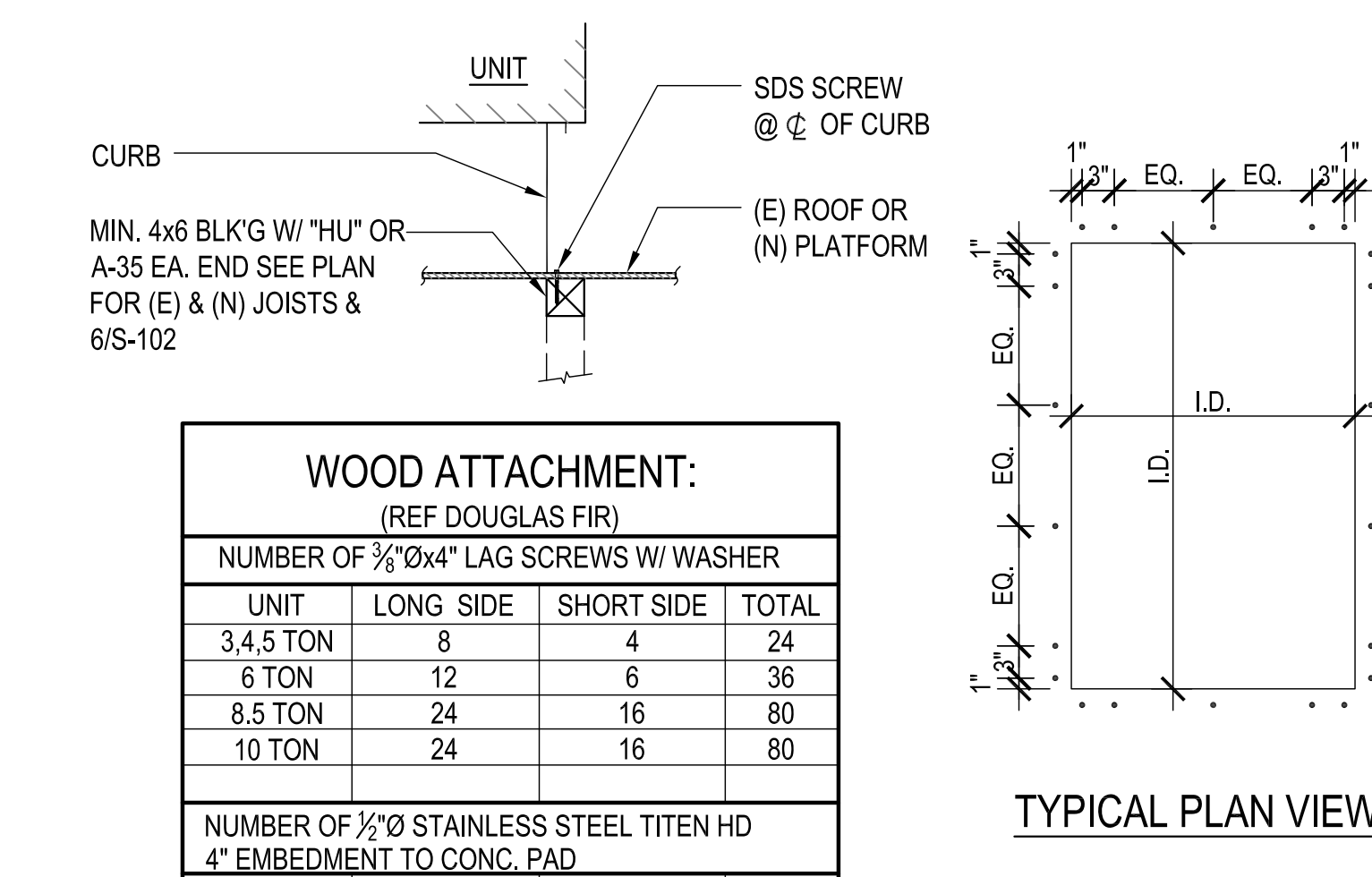
A9.03



**HORIZONTAL DUCT SUPPORT**  
SCALE: 1/4" = 1'-0"



**JOIST BRIDGING DETAIL**



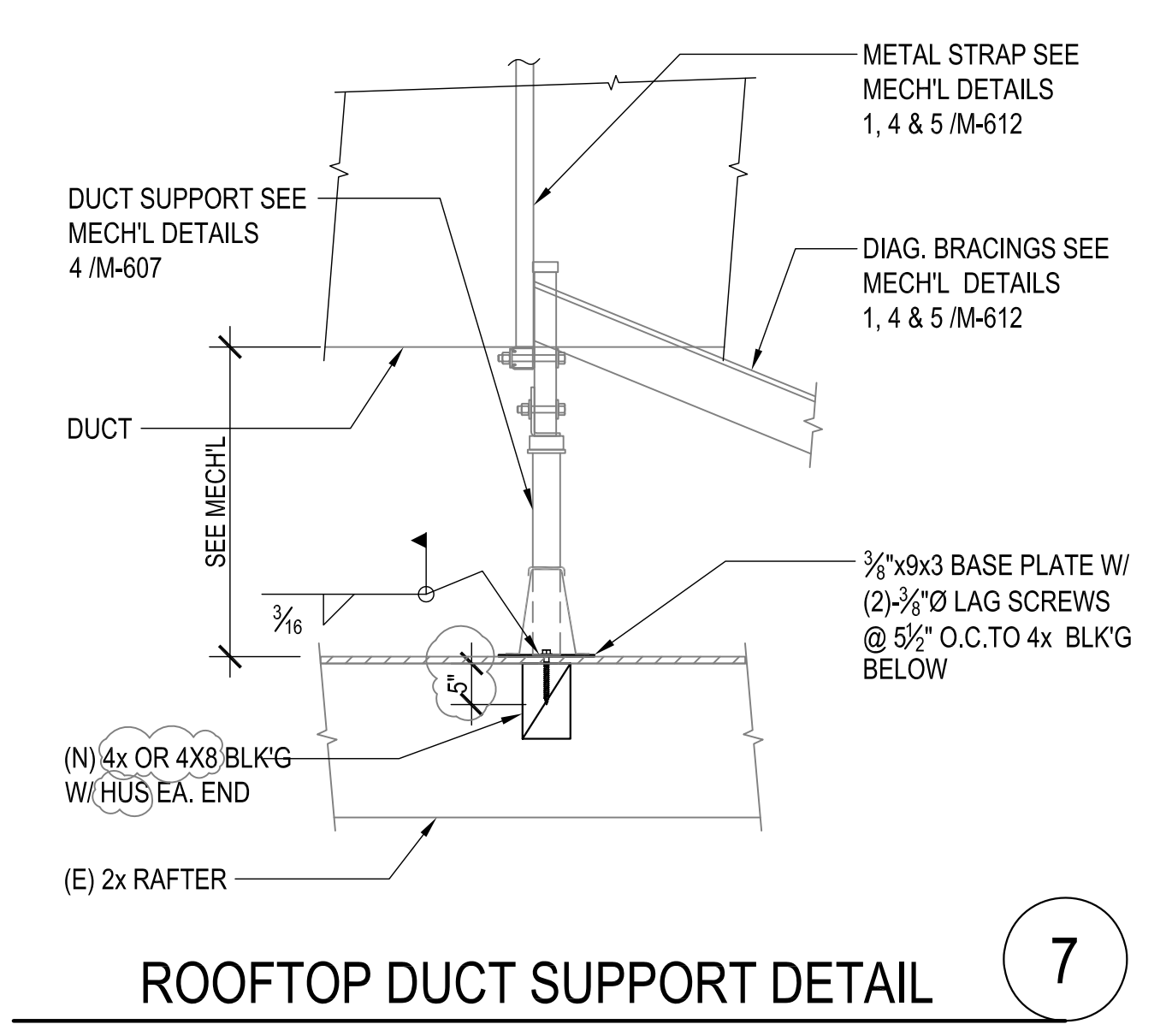
**WOOD ATTACHMENT:**  
(REF DOUGLAS FIR)

| NUMBER OF 3/4" DIA x 4" LAG SCREWS W/ WASHER |           |            |       |
|--|-----------|------------|-------|
| UNIT   | LONG SIDE | SHORT SIDE | TOTAL |
| 3.4, 5 TON                                   | 8         | 4          | 24    |
| 6 TON  | 12        | 6          | 36    |
| 8.5 TON                                      | 24        | 16         | 80    |
| 10 TON                                       | 24        | 16         | 80    |

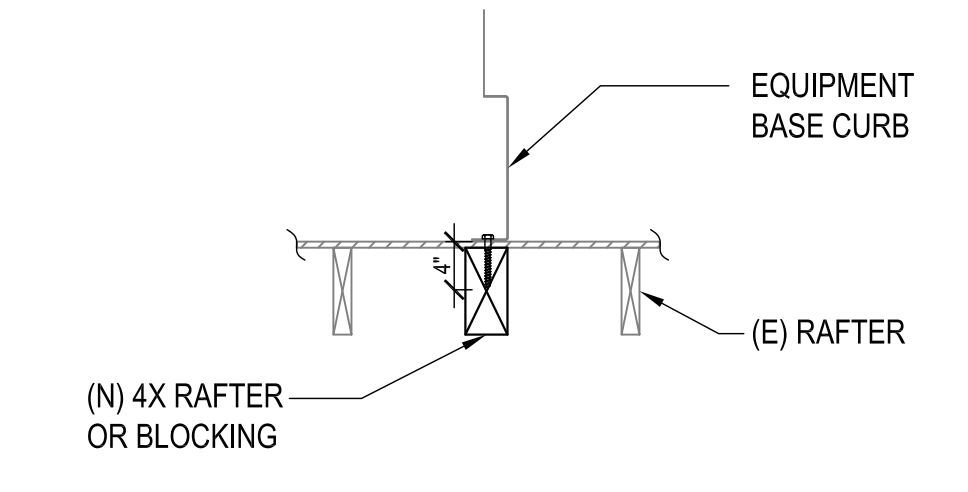
  

| NUMBER OF 1/2" DIA STAINLESS STEEL TITEN HD 4" EMBEDMENT TO CONC. PAD |           |            |       |
|---|-----------|------------|-------|
| UNIT  | LONG SIDE | SHORT SIDE | TOTAL |
| 50 TON  | 8         | 4          | 24    |

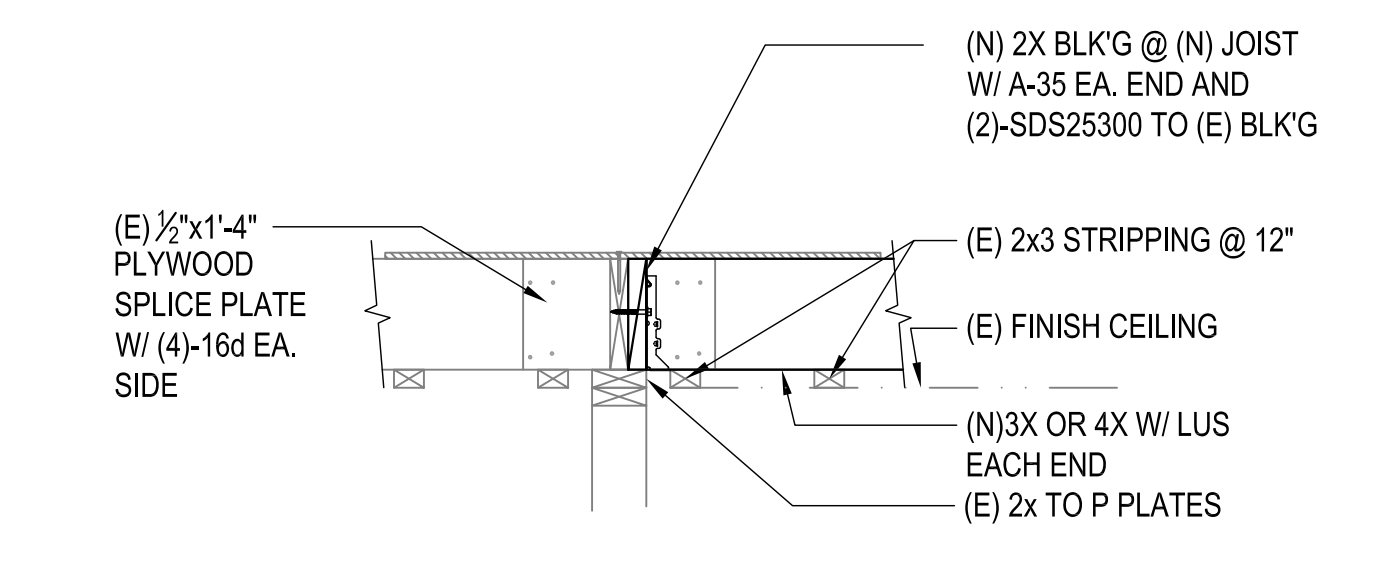
**TYPICAL UNIT ANCHORAGE SCHEDULE**



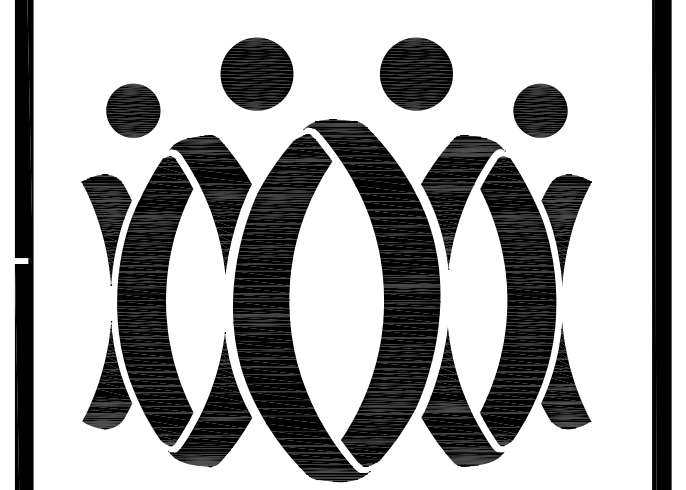
**ROOFTOP DUCT SUPPORT DETAIL**



**MAU ANCHORAGE DETAIL**



**RAFTER TO WALL DETAIL @ BUILDING "J"**



**FLEWELLING & MOODY**  
architecture planning interiors

**HEADQUARTERS OFFICE:**  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
323.543.8300  
E-Mail: fm-passadena@flewellling-moody.com

**ANTELOPE VALLEY OFFICE:**  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
861.949.0771  
E-Mail: fm-lancaster@flewellling-moody.com

An Employee Owned Corporation

ARCHITECT

CONSULTANT



**LW LIN & WU ENGINEERING**  
CONSULTING STRUCTURAL ENGINEERS  
101 West Broadway Ave, Suite 100, Pasadena, CA 91104  
PH: 626.792.8888

THIS DOCUMENT WHICH INCORPORATES THE DESIGN SCHEDULE, STANDARD SPECIFICATIONS AND NOTES, IS THE PROPERTY OF LIN & WU ENGINEERING AND CANNOT BE COPIED OR USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF LIN & WU ENGINEERING.

NOTE FOR STRUCTURAL DRAWINGS

IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO CHECK/VERIFY DIMENSIONS SHOWN IN THESE STRUCTURAL DRAWINGS WITH DIMENSIONS SHOWN ON ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS. CLARIFICATION OF ANY CONFLICTS SHALL BE REQUESTED PRIOR TO CONSTRUCTION. CRITICAL DIMENSIONS TO BE CROSS-CHECKED SHALL INCLUDE BASIC HORIZONTAL AND VERTICAL BUILDING DIMENSIONS, LOCATION OF OPENINGS IN FLOORS, ROOFS AND WALLS.

Drawn by: J.Y.  
Checked by: W.L.

Revisions

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans and the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewellling & Moody.

**OXNARD UNION HIGH SCHOOL DISTRICT**

**RIO MESA HIGH SCHOOL ALTERATIONS PROJECT**

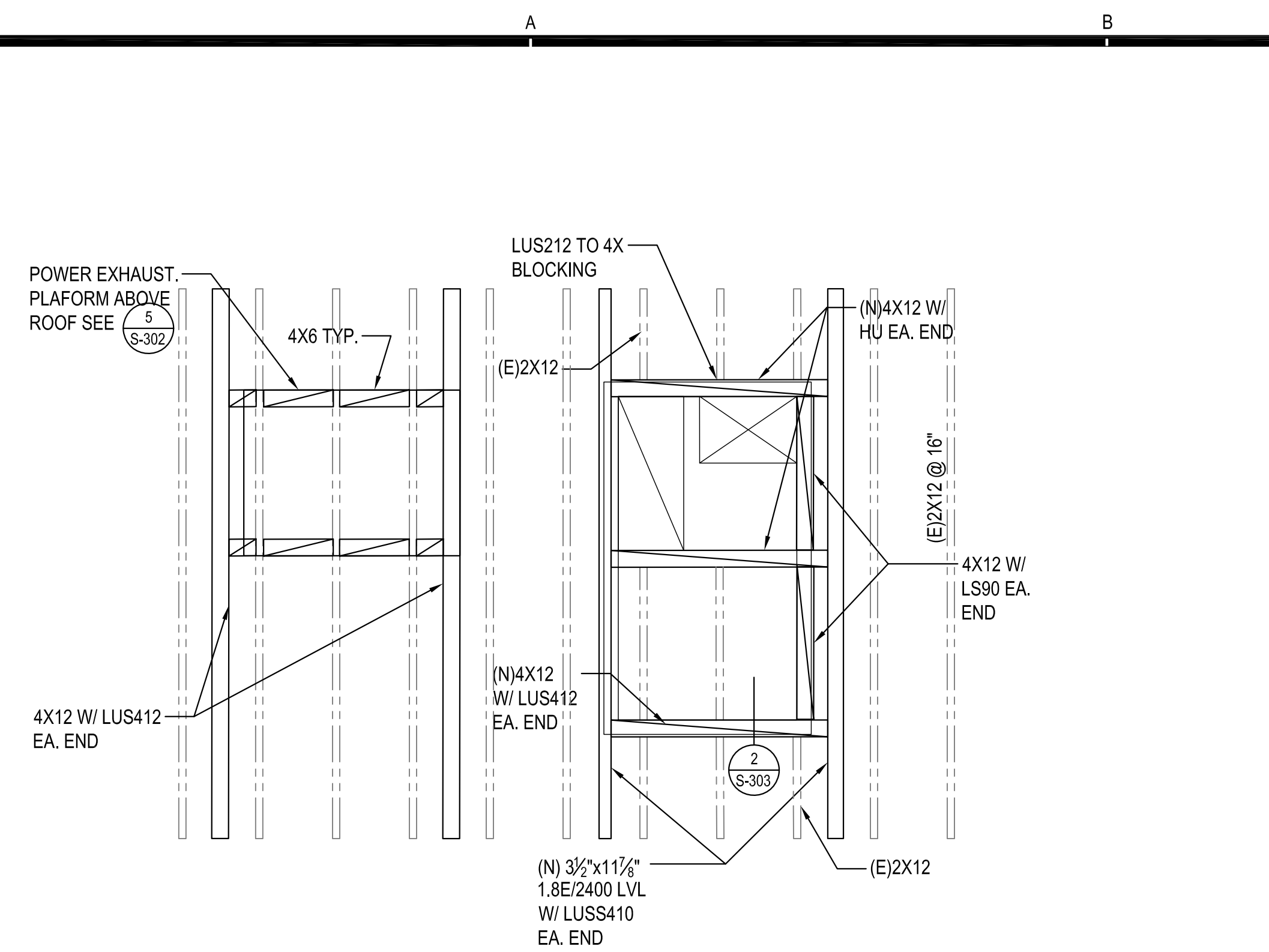
545 CENTRAL AVE  
OXNARD, CA 93036

**DETAILS**

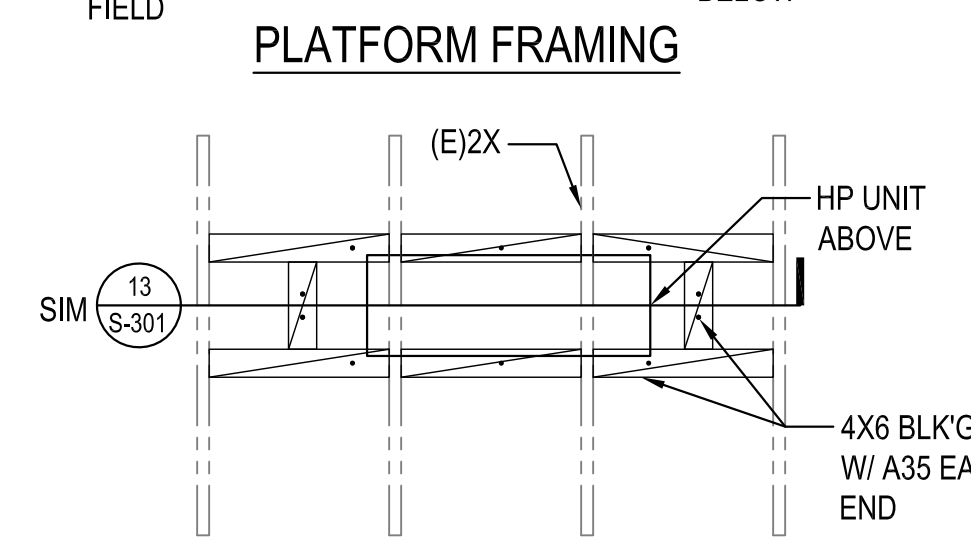
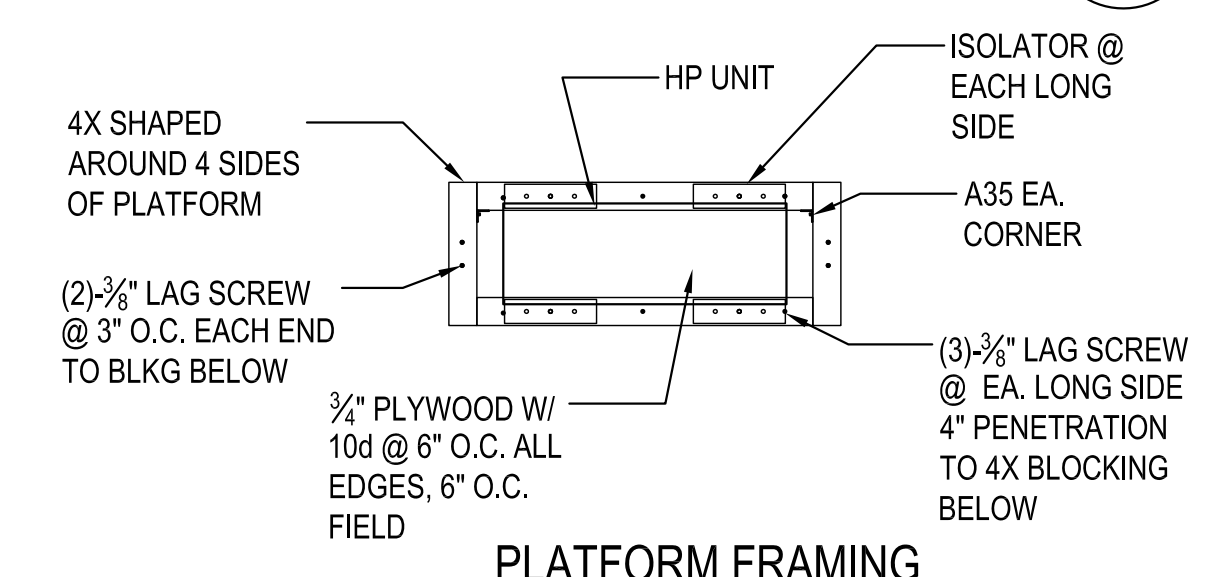
Job No.: 2841.100

**S-303**

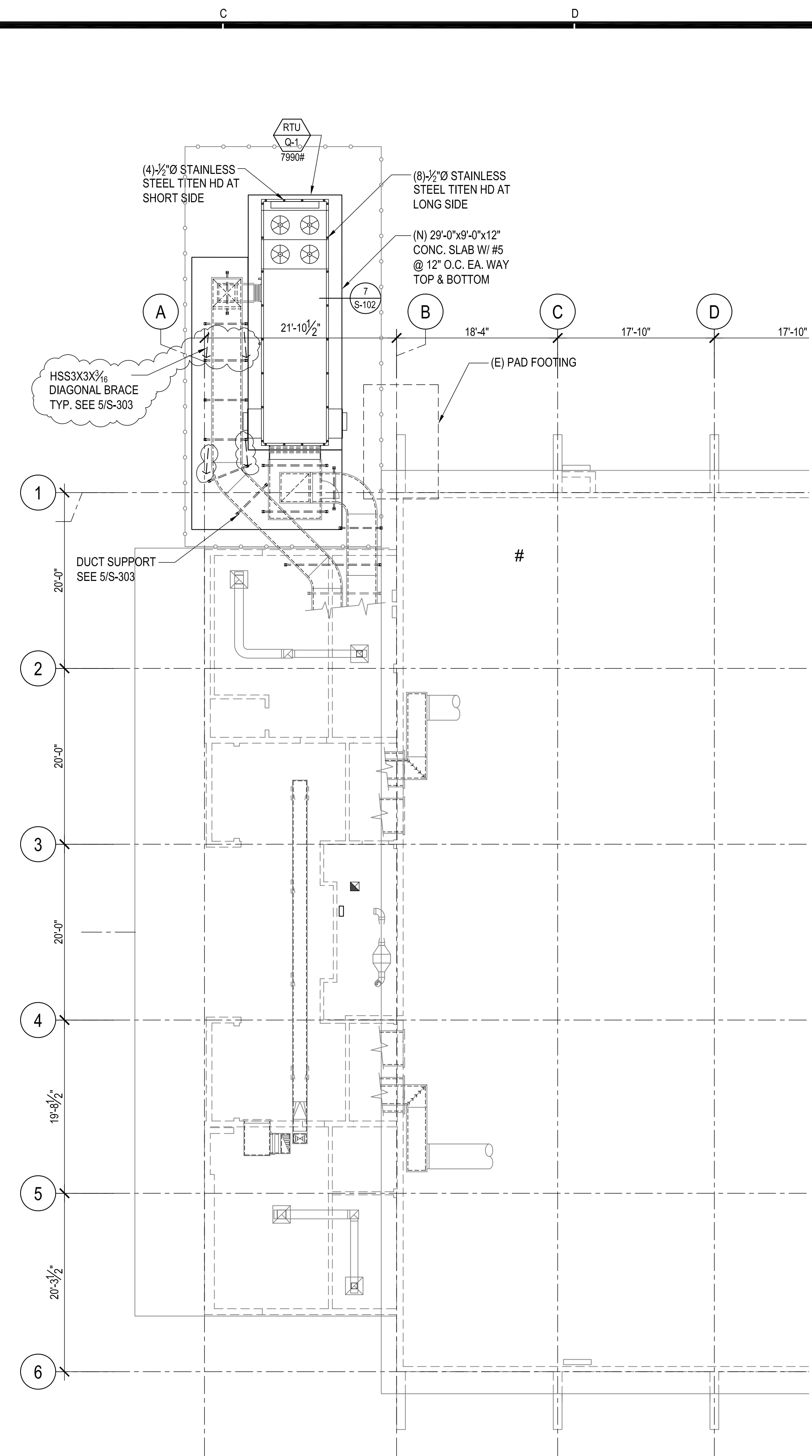
Date: 07-13-2020



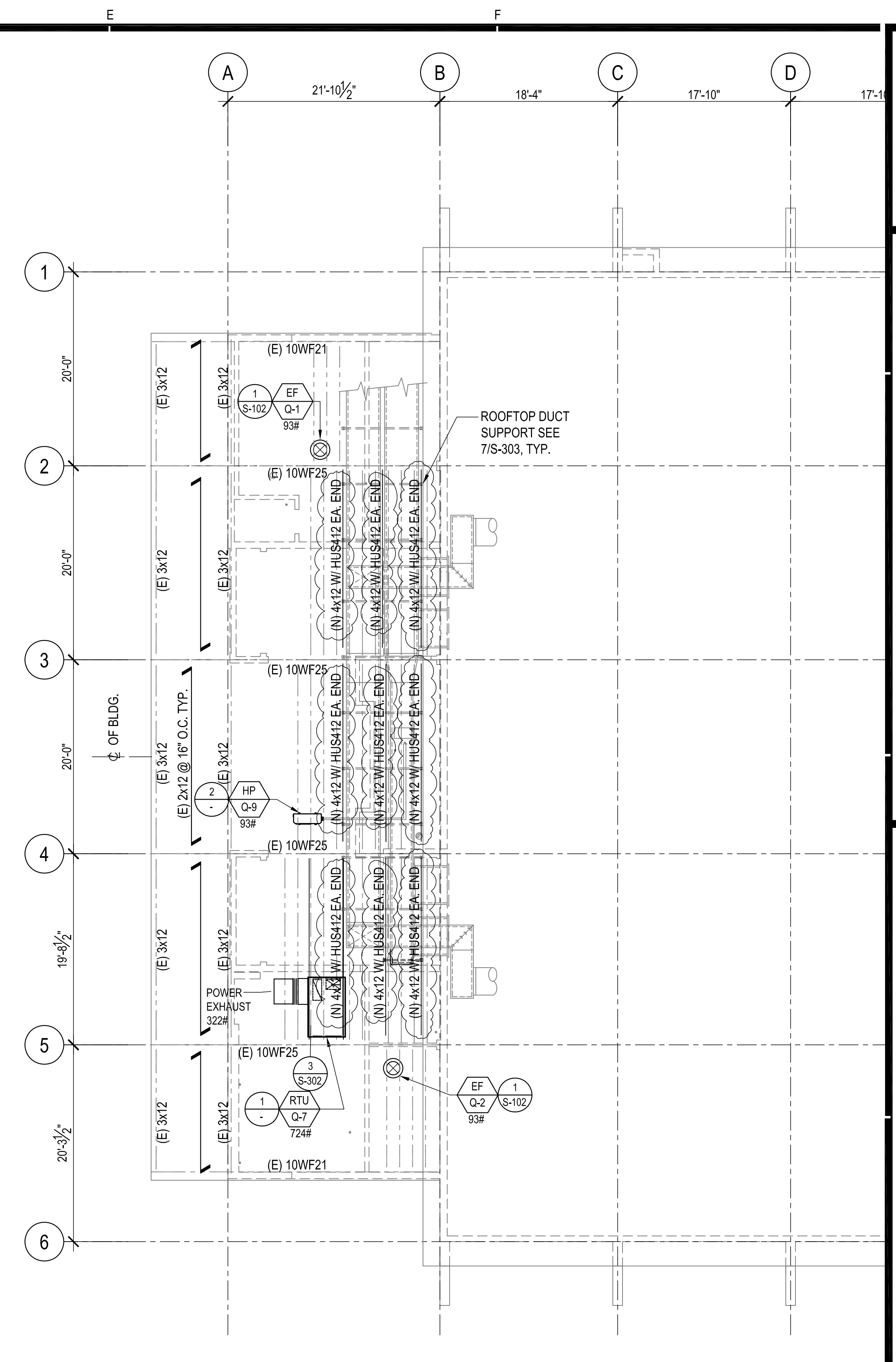
**RTU PENETRATION AND ANCHORAGE PLAN**  
SCALE: 1/2" = 1'-0"



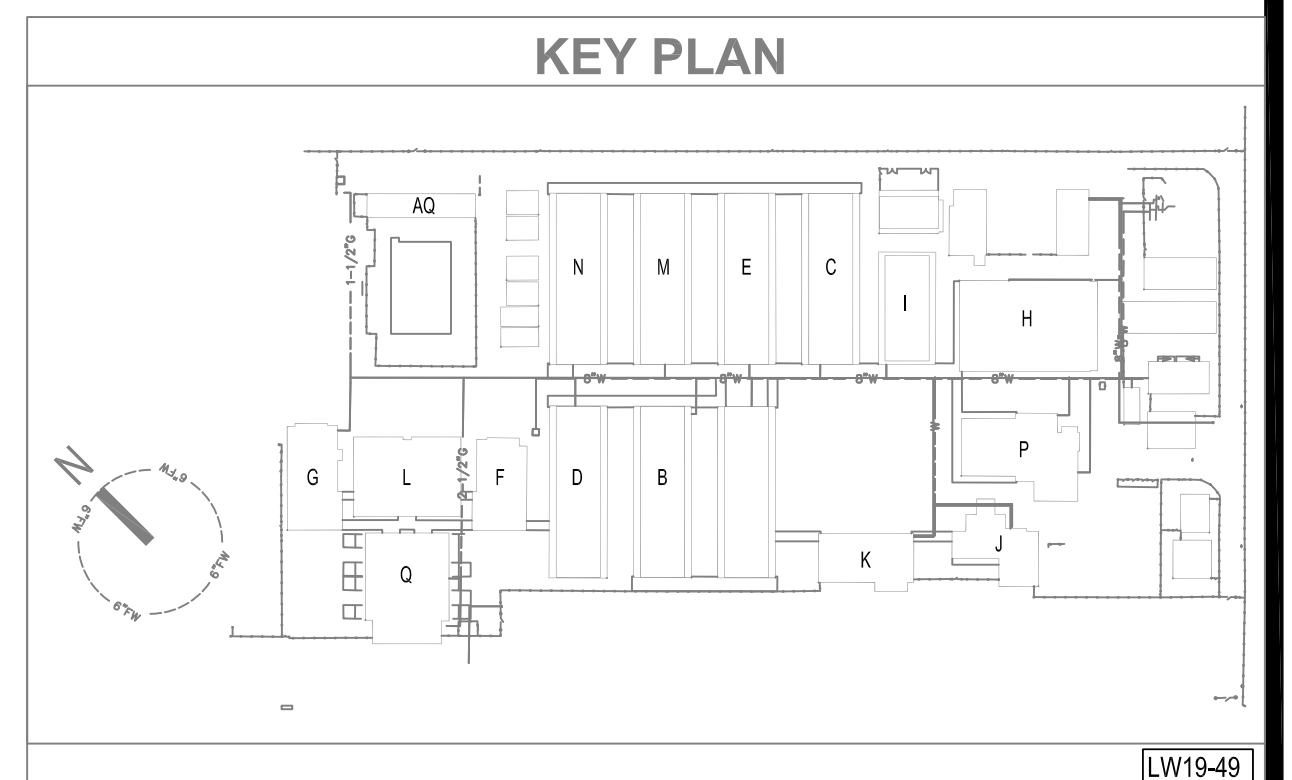
**HP PLATFORM CONNECTION TO ROOF PLAN**  
SCALE: 1/2" = 1'-0"



**GYMNASIUM BLDG. Q PARTIAL FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"



**GYMNASIUM BLDG. Q PARTIAL ROOF FRAMING PLAN**  
SCALE: 1/8" = 1'-0"



AGENCY

**FLEWELLING & MOODY**  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
323.543.3300  
E-Mail: fm-passadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
861.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

CONSULTANT

**LW LIN & WU ENGINEERING**  
CONSULTING STRUCTURAL ENGINEERS  
111 South Broadway Ave, Suite 100, Redwood City, CA 94061  
650.962.8888

THIS DOCUMENT WHICH REPRESENTS THE DESIGN CONCEPTS, DIMENSIONS, SPECIFICATIONS AND NOTES, UNLESS OTHERWISE NOTED, IS THE PROPERTY OF LIN & WU ENGINEERING AND CANNOT BE COPIED OR USED IN WHOLE OR IN PART FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF LIN & WU ENGINEERING.

NOTE FOR STRUCTURAL DRAWINGS

IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO DISCOVER DIMENSIONS SHOWN IN THESE STRUCTURAL DRAWINGS WITH DIMENSIONS SHOWN ON ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS. CLARIFICATION OF ANY CONFLICTS SHALL BE REQUESTED PRIOR TO CONSTRUCTION. CRITICAL DIMENSIONS TO BE CROSS-CHECKED SHALL INCLUDE BASIC HORIZONTAL AND VERTICAL BUILDING DIMENSIONS, LOCATION OF OPENINGS IN FLOORS, ROOFS AND WALLS.

|            |      |             |
|------------|------|-------------|
| Drawn by   | J.Y. |             |
| Checked by | W.L. |             |
| Revisions  |      |             |
| No.        | Date | Description |
|            |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

**OXNARD UNION HIGH SCHOOL DISTRICT**

**RIO MESA HIGH SCHOOL ALTERATIONS PROJECT**

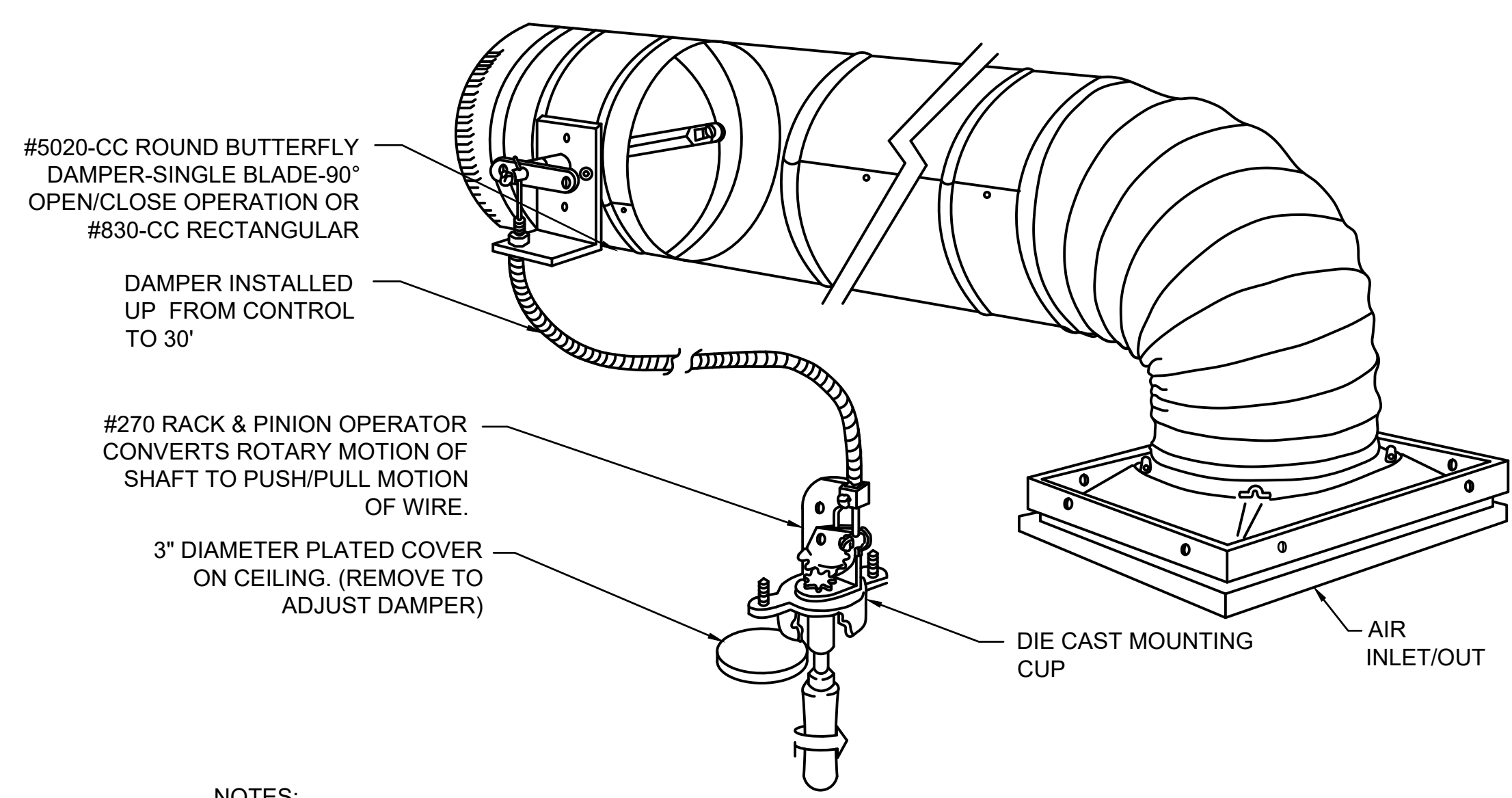
545 CENTRAL AVE  
OXNARD, CA 93036

**GYMNASIUM BLDG. 'Q' PARTIAL FOUNDATION & ROOF FRAMING PLANS**

Job No.  
2841.100

Date  
07-13-2020

**SQ-201**



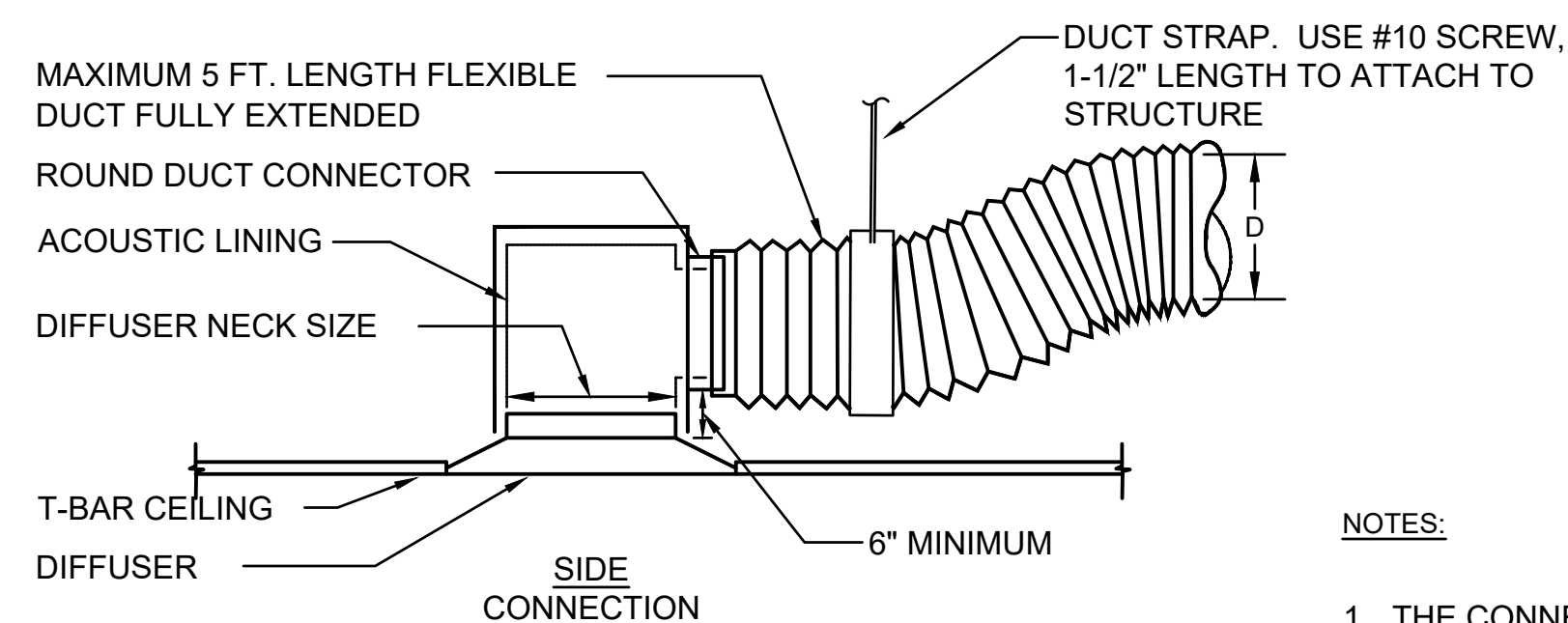
**NOTES:**

1. ROUND DUCT SHOWN. FOR RECTANGULAR DUCTS, USE RECTANGULAR DAMPER, ACTUATOR, ETC EQUIVALENT MODEL NUMBER.
2. THE REMOTE ACTUATOR SHALL BE USED FOR ALL DAMPERS ABOVE INACCESSIBLE CEILINGS EXCEPT FOR THE CEILINGS IN ARCHITECT APPROVED INCONSPICUOUS AREAS SUCH AS THE CLOSETS, STORAGE ROOMS, ETC. WHERE THE ARCHITECT HAS INDICATED ACCESS PANELS. INSTALL ACTUATOR AS CLOSE AS POSSIBLE UNDER DAMPER.

TYPICAL FOR RECTANGULAR & ROUND DUCTS

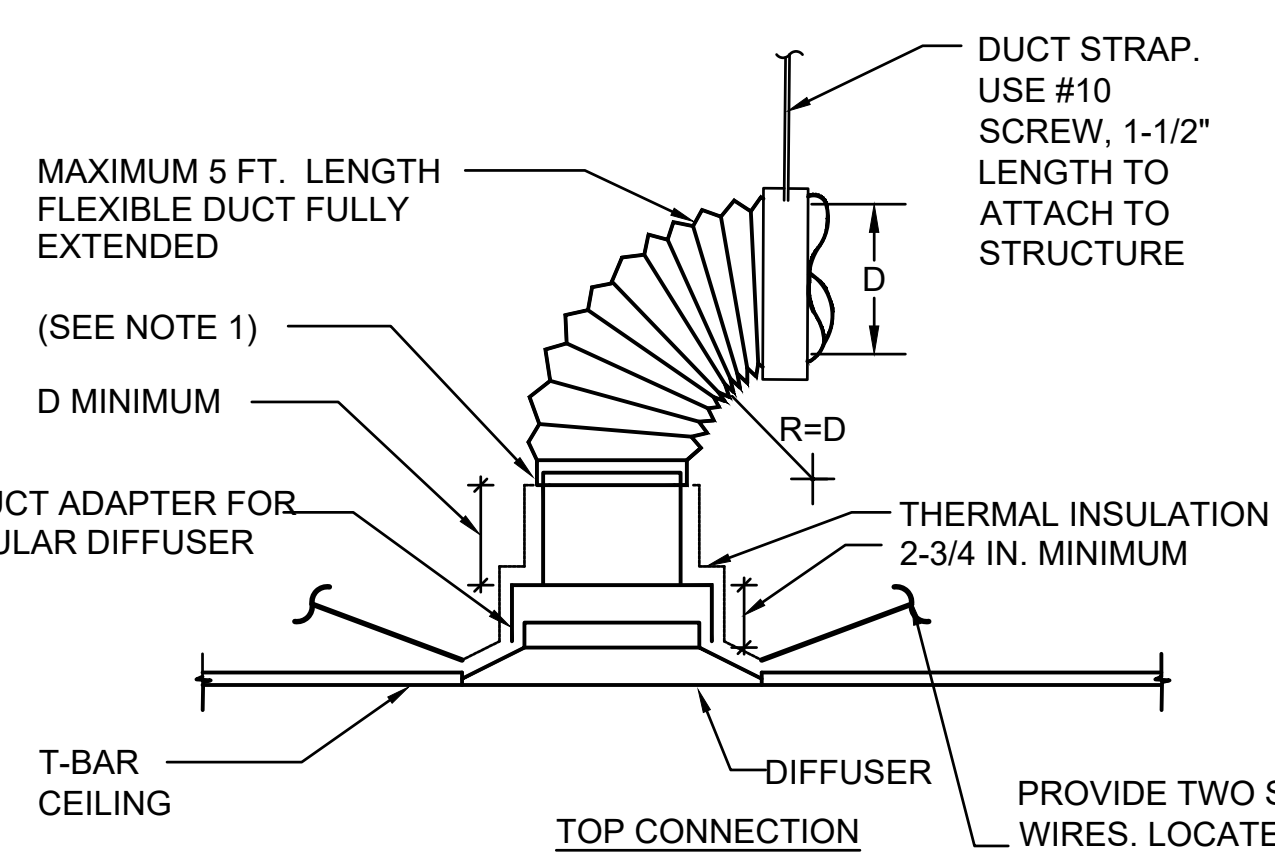
TYP. YOUNG REGULATOR WITH REMOTE DAMPER ACTUATOR

|       |   |
|-------|---|
| SCALE | 4 |
| NONE  |   |



**NOTES:**

1. THE CONNECTION OF THE FLEXIBLE DUCT TO THE DEVICE SHALL BE WITH A NYLON STRAP SECURELY SEALED TO THE DEVICE COLLAR.
2. FLEXIBLE DUCT 7'-0" MAXIMUM LENGTH.
3. FLEXIBLE DUCT SHALL NOT BE INSTALLED ABOVE HARD-LID CEILING.
4. INSTALL WITH DUCT STRAP TO PREVENT FLEX DUCT FROM SAGGING.
5. FOR INSTALLATION AT T-BAR CEILING ONLY. NO SHEET METAL SCREW ATTACHING DIFFUSER TO T-BAR GRID REQUIRED.



DIFFUSER FLEXIBLE CONNECTION DIAGRAM

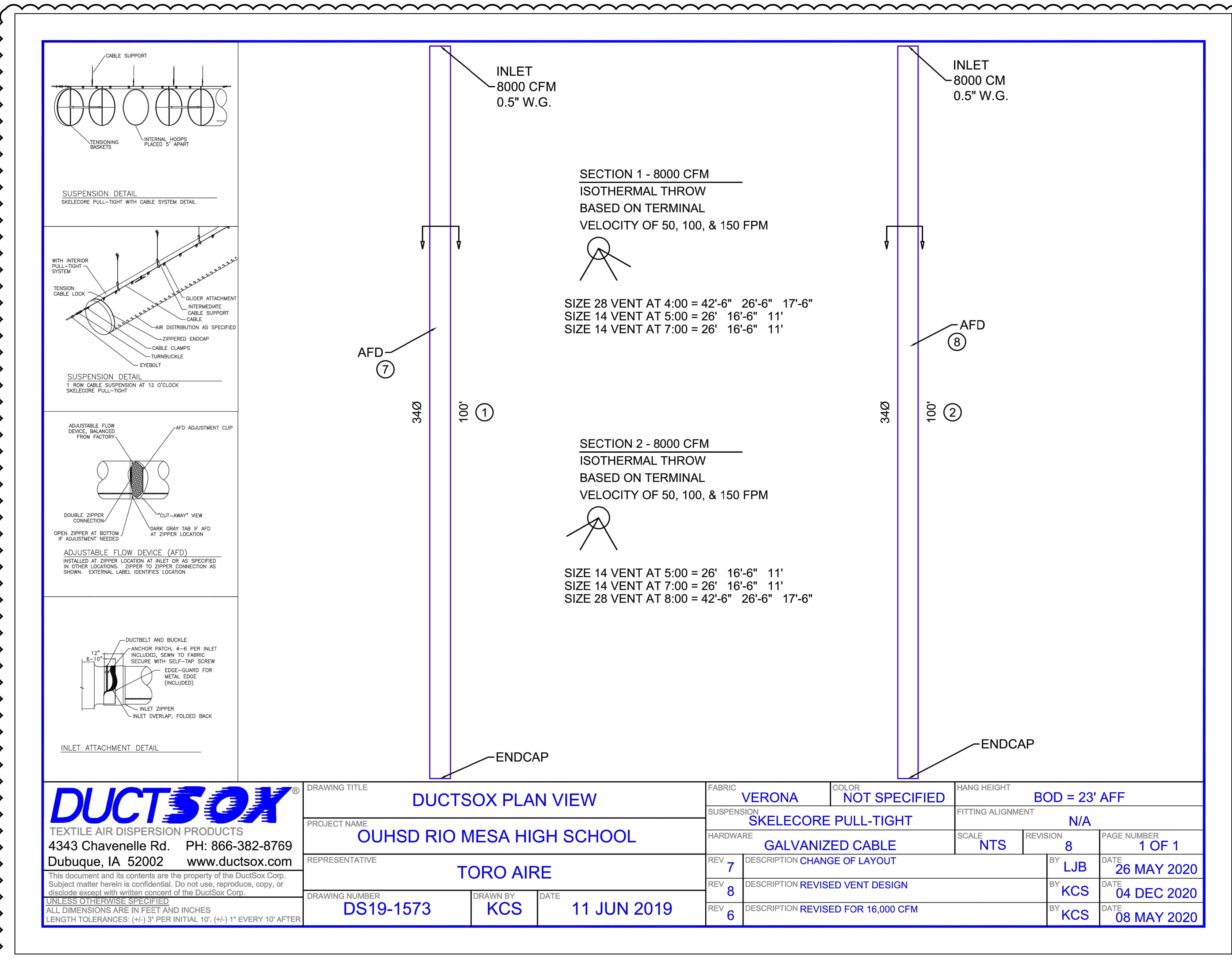
|       |   |
|-------|---|
| SCALE | 5 |
| NONE  |   |

FOR CABLE HANGER TO CONNECT TO ROOF FRAMING IN GYM, USE 1/4" EYE BOLT. CONNECT TO SIDE OF SHAPED 3x14 RAFTERS AT 6" FROM BOTTOM OF RAFTER.

CABLE HANGER

DUCTSOX UPPER ATTACHMENT DIAGRAM

|       |   |
|-------|---|
| SCALE | 6 |
| NONE  |   |



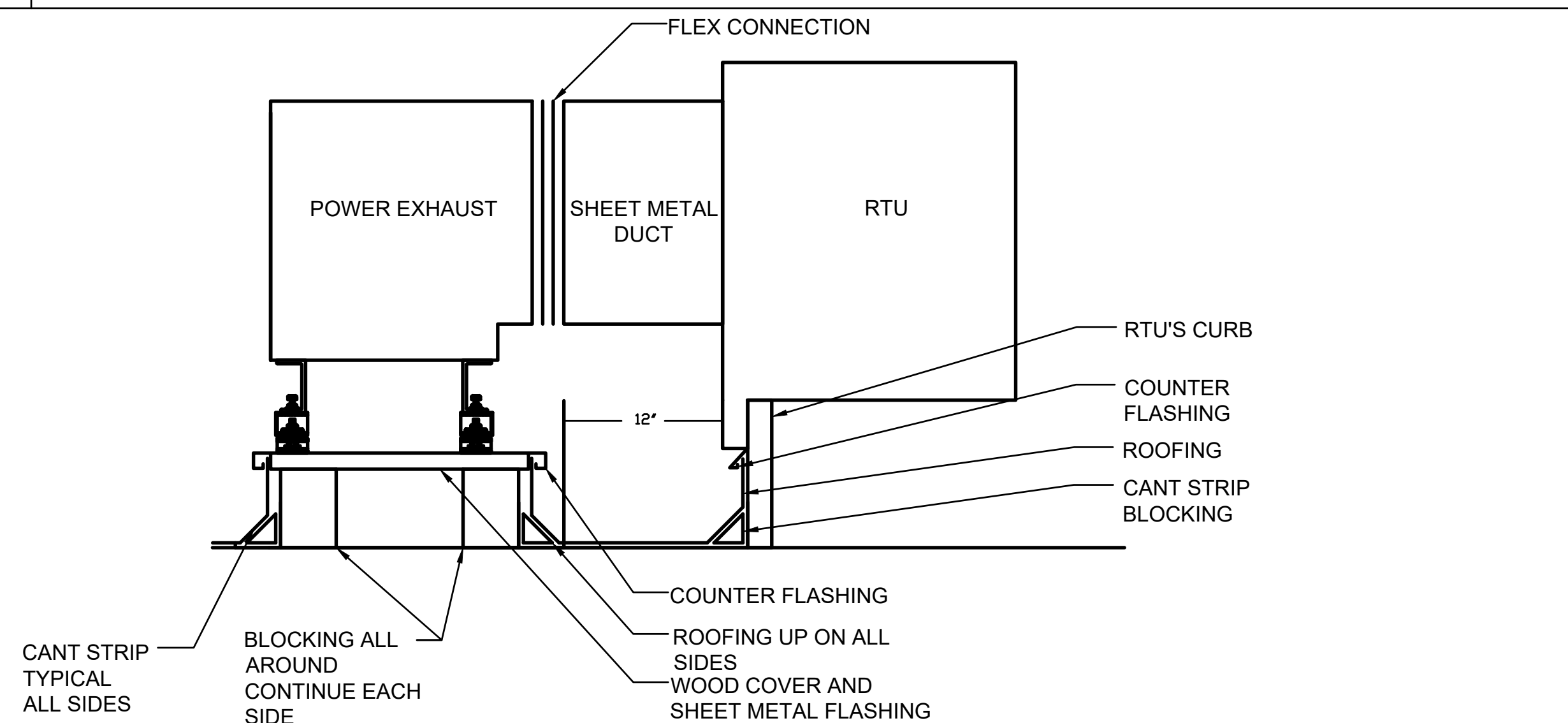
**DUCTSOX**  
TEXTILE AIR DISPERSION PRODUCTS  
4343 Chavenelle Rd. PH: 866-382-8769  
Dubuque, IA 52002 www.ductsox.com

This document and its contents are the property of the Ductsox Corp. Subject matter herein is confidential. Do not use, reproduce, copy, or disclose without written consent of the Ductsox Corp.  
UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS ARE IN FEET AND INCHES  
LENGTH TOLERANCES: (+/-) 3" PER INITIAL 10'; (+/-) 1" EVERY 10' AFTER

|                            |  |                      |                                    |                  |
|----------------------------|--|----------------------|------------------------------------|------------------|
| DRAWING TITLE              |  | FABRIC               | COLOR                              | HANG HEIGHT      |
| DUCTSOX PLAN VIEW          |  | VERONA               | NOT SPECIFIED                      | BOD = 23' AFF    |
| PROJECT NAME               |  | SUSPENSION           |                                    |                  |
| OUHSD RIO MESA HIGH SCHOOL |  | SKELECORE PULL-TIGHT |                                    |                  |
| REPRESENTATIVE             |  | HARDWARE             | SCALE                              | REVISION         |
| TORO AIRE                  |  | GALVANIZED CABLE     | NTS                                | 8                |
| DRAWING NUMBER             |  | REV 7                | DESCRIPTION CHANGE OF LAYOUT       | DATE 26 MAY 2020 |
| DS19-1573                  |  | REV 8                | DESCRIPTION REVISED VENT DESIGN    | DATE 04 DEC 2020 |
| DRAWN BY                   |  | REV 6                | DESCRIPTION REVISED FOR 16,000 CFM | DATE 08 MAY 2020 |
| KCS                        |  |                      |                                    |                  |
| DATE                       |  |                      |                                    |                  |
| 11 JUN 2019                |  |                      |                                    |                  |

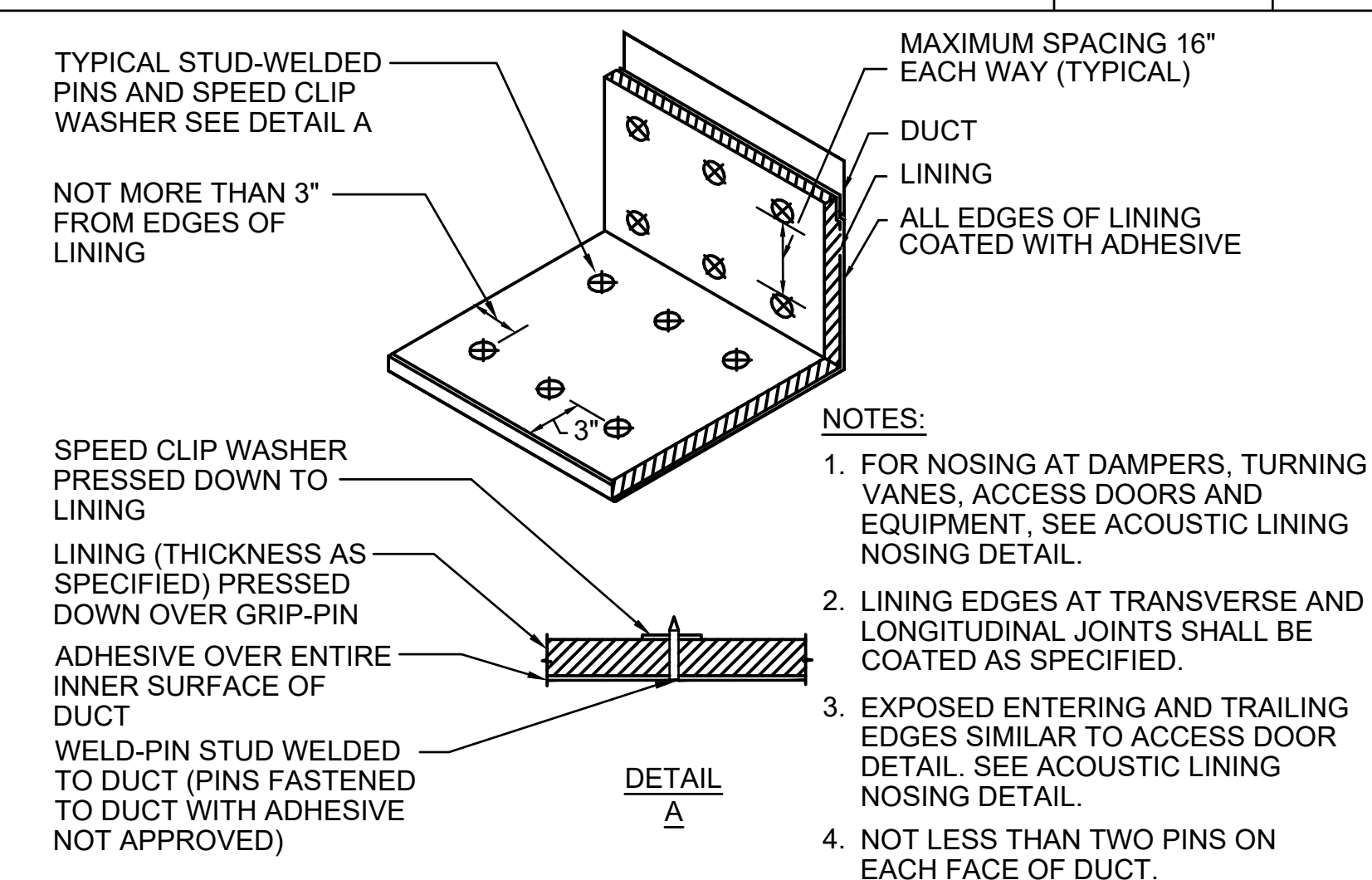
DUCTSOX DETAIL

|       |   |
|-------|---|
| SCALE | 1 |
| NONE  |   |



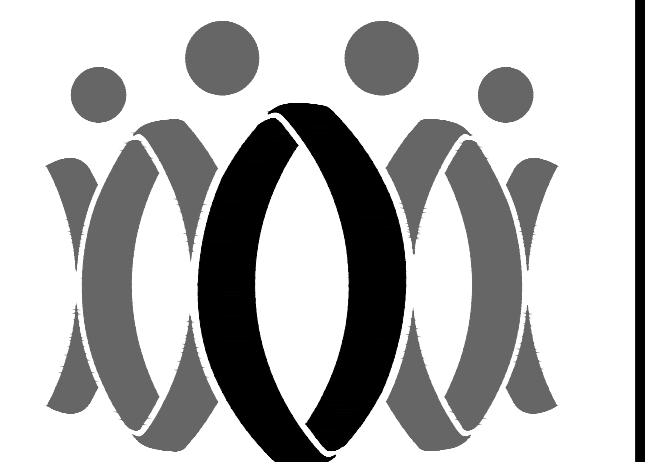
POWER EXHAUST MOUNTING DETAIL

|       |   |
|-------|---|
| SCALE | 3 |
| NONE  |   |



ACOUSTIC LINING INSTALLATION DIAGRAM

|       |   |
|-------|---|
| SCALE | 2 |
| NONE  |   |



FLEWELLING & MOODY  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.0000  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247

CHARLLO OFFICE  
10000 WILSON BLVD  
LOS ANGELES, CA 90024  
TEL: 310.484.1447



Drawn by: DIAGRAMS

Checked by: -

Revisions:

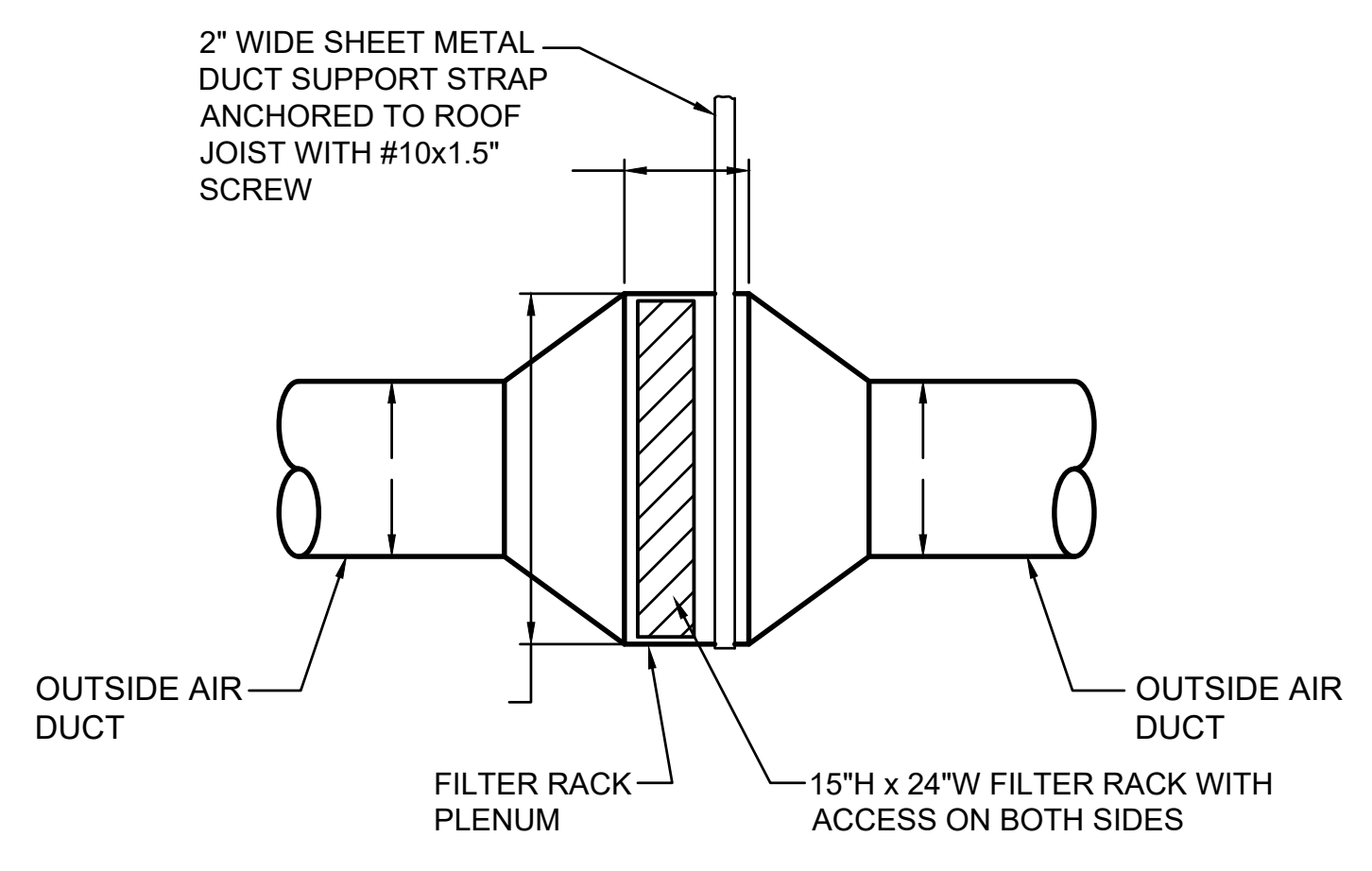
| No. | Date | Description |
|-----|------|-------------|
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & specifications in connection therewith have been prepared by a specific job. Any work not shown on these plans is to be done in accordance with the applicable code and is hereby declared by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

HVAC DIAGRAMS

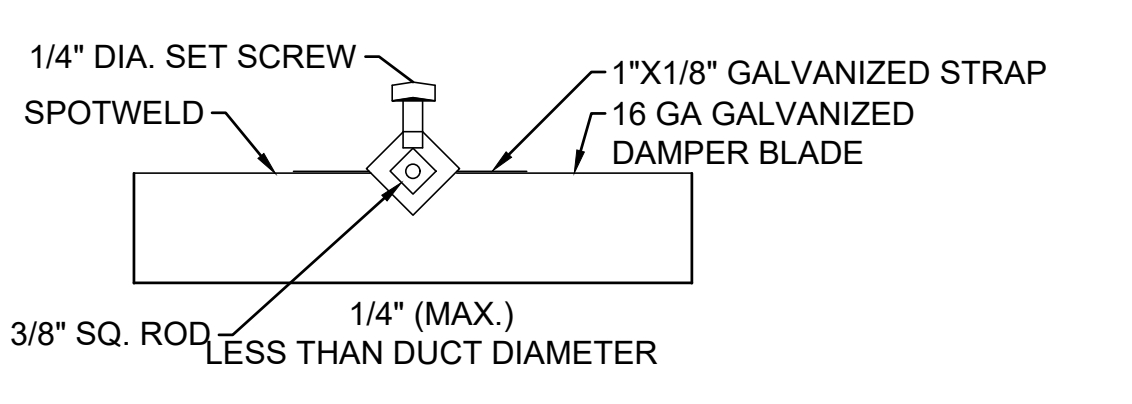
Job No: 2847.0200  
Date: 10/23/2020  
**M-601**



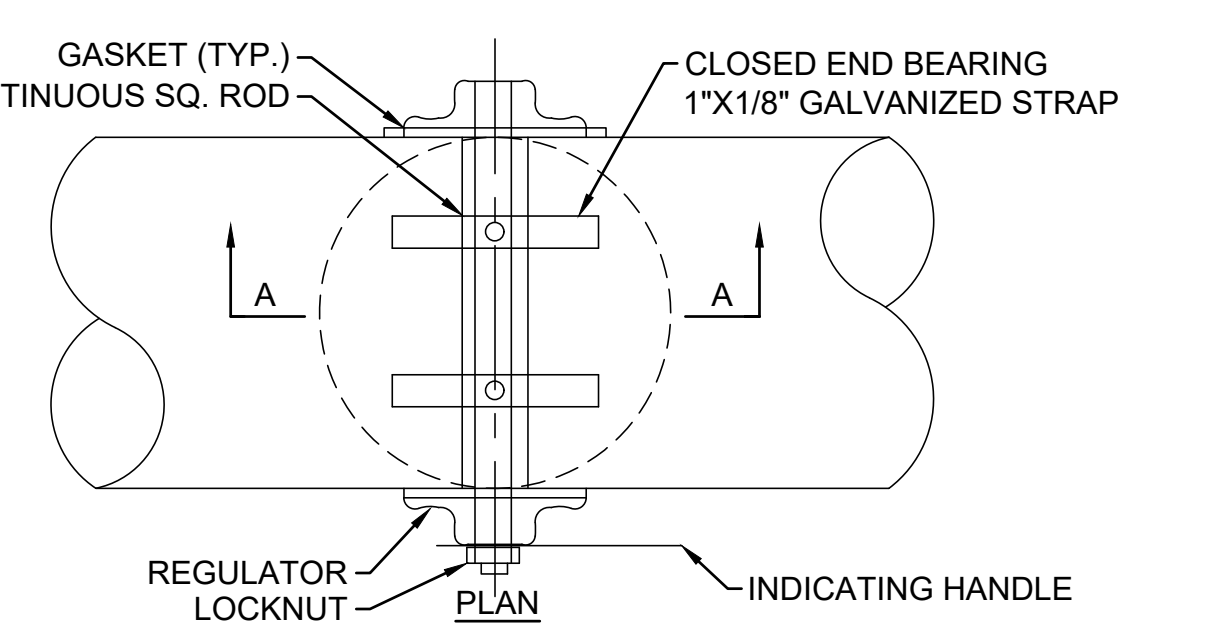
NOTES:  
1. FILTER RACK PLENUM DIMENSIONS:  
1'-8"H x 2'-0" L x 2'-0"W

**FILTER BOX MOUNTING**

|       |   |
|-------|---|
| SCALE | 6 |
| NONE  |   |



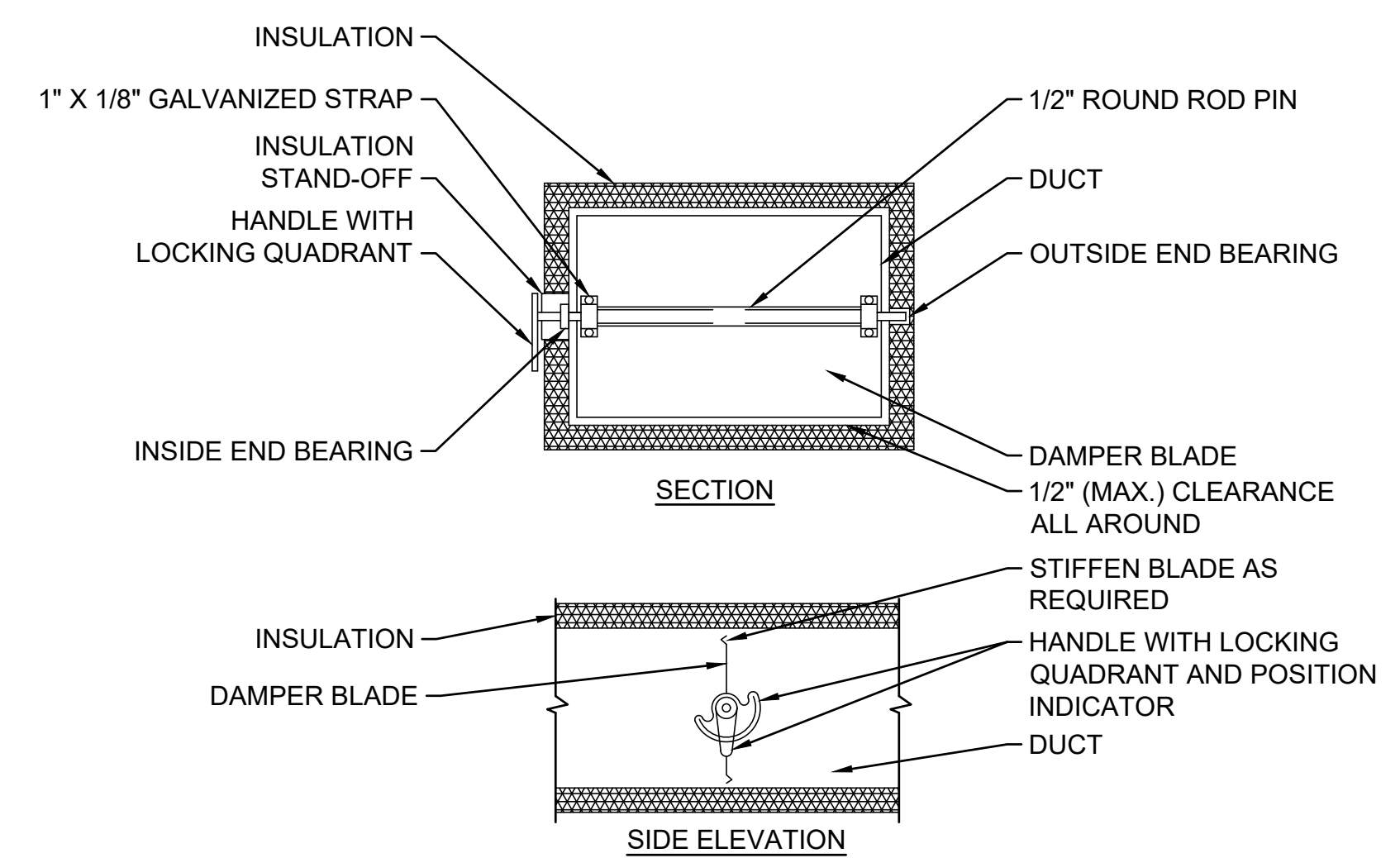
**SECTION A-A**



NOTES:  
1. LOCK DAMPER DURING AIR BALANCE AND MARK QUADRANT TO RECORD AIR BALANCED DAMPER POSITION POSITION.  
2. PROVIDE "HAT" SECTION AT QUADRANT FOR ALL EXTERNALLY INSULATED DUCTWORK.  
3. PROVIDE FLUORESCENT COLORED MARKERS AT ALL VOLUME DAMPERS LOCATIONS.

**ROUND VOLUME DAMPER UPTO 14 IN. DIAMETER**

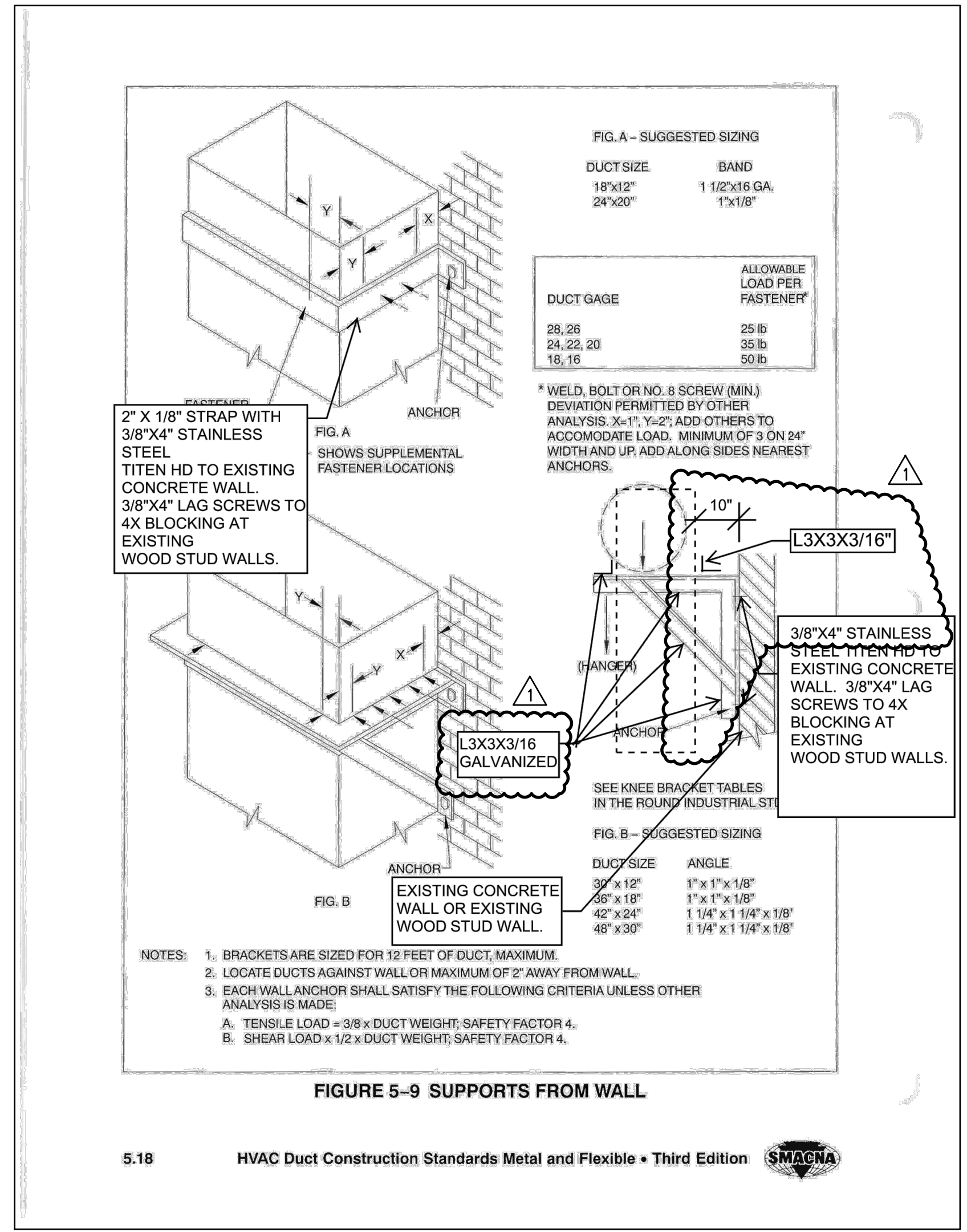
|       |   |
|-------|---|
| SCALE | 7 |
| NONE  |   |



NOTES:  
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.  
2. DETAIL SHOWS SINGLE BLADE DAMPER. MULTI-BLADE DAMPERS INSTALLATIONS SHALL BE SIMILAR.  
3. LOCK DAMPER DURING AIR BALANCE AND MARK QUADRANT TO RECORD AIR BALANCED DAMPER POSITION.  
4. PROVIDE "HAT" SECTION AT QUADRANT FOR ALL EXTERNALLY INSULATED DUCTWORK.  
5. PROVIDE FLUORESCENT COLORED MARKERS ON CEILING AT ALL VOLUME DAMPERS LOCATIONS.

**RECTANGULAR MANUAL VOLUME DAMPER**

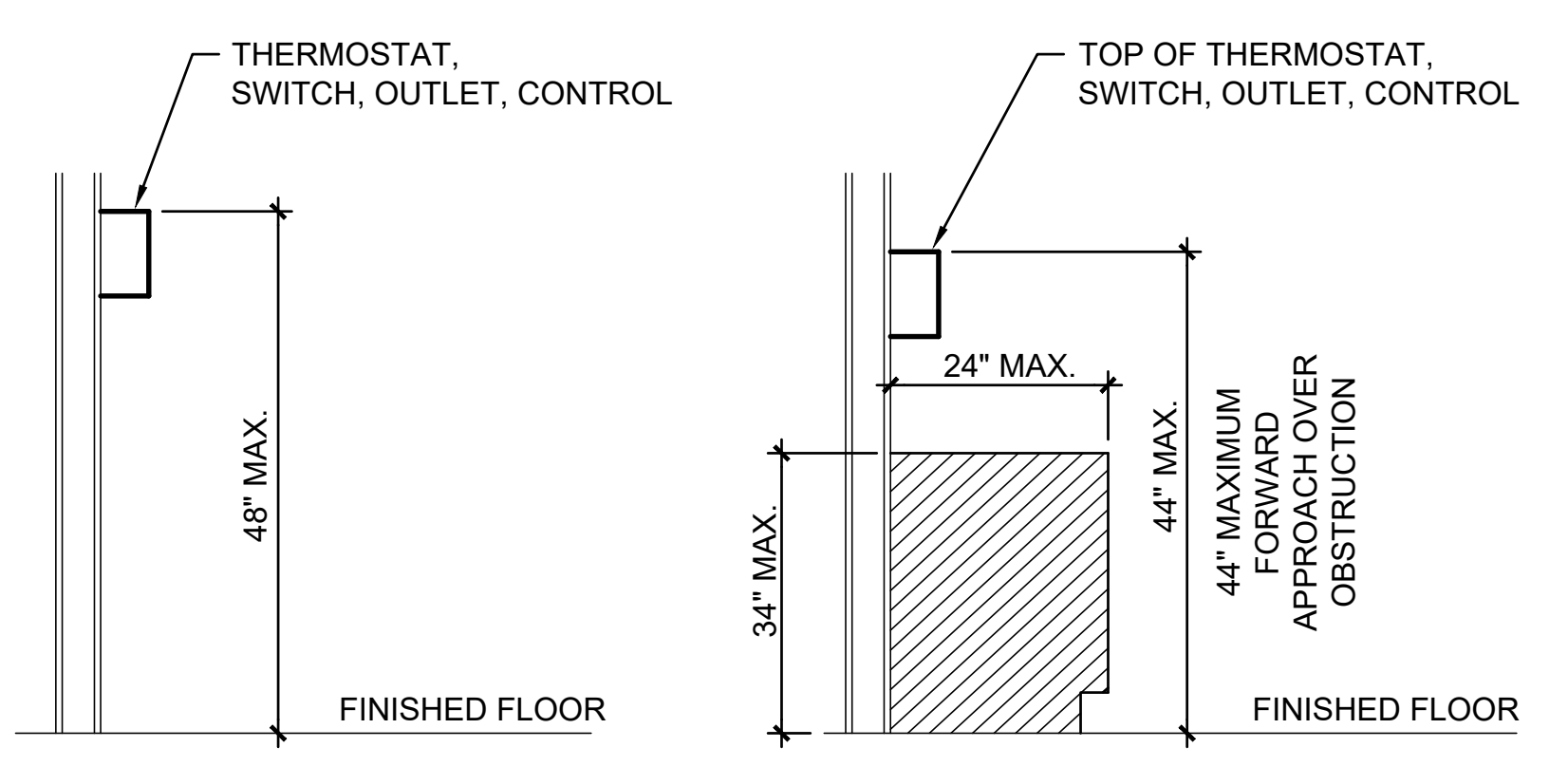
|       |   |
|-------|---|
| SCALE | 8 |
| NONE  |   |



**FIGURE 5-9 SUPPORTS FROM WALL**

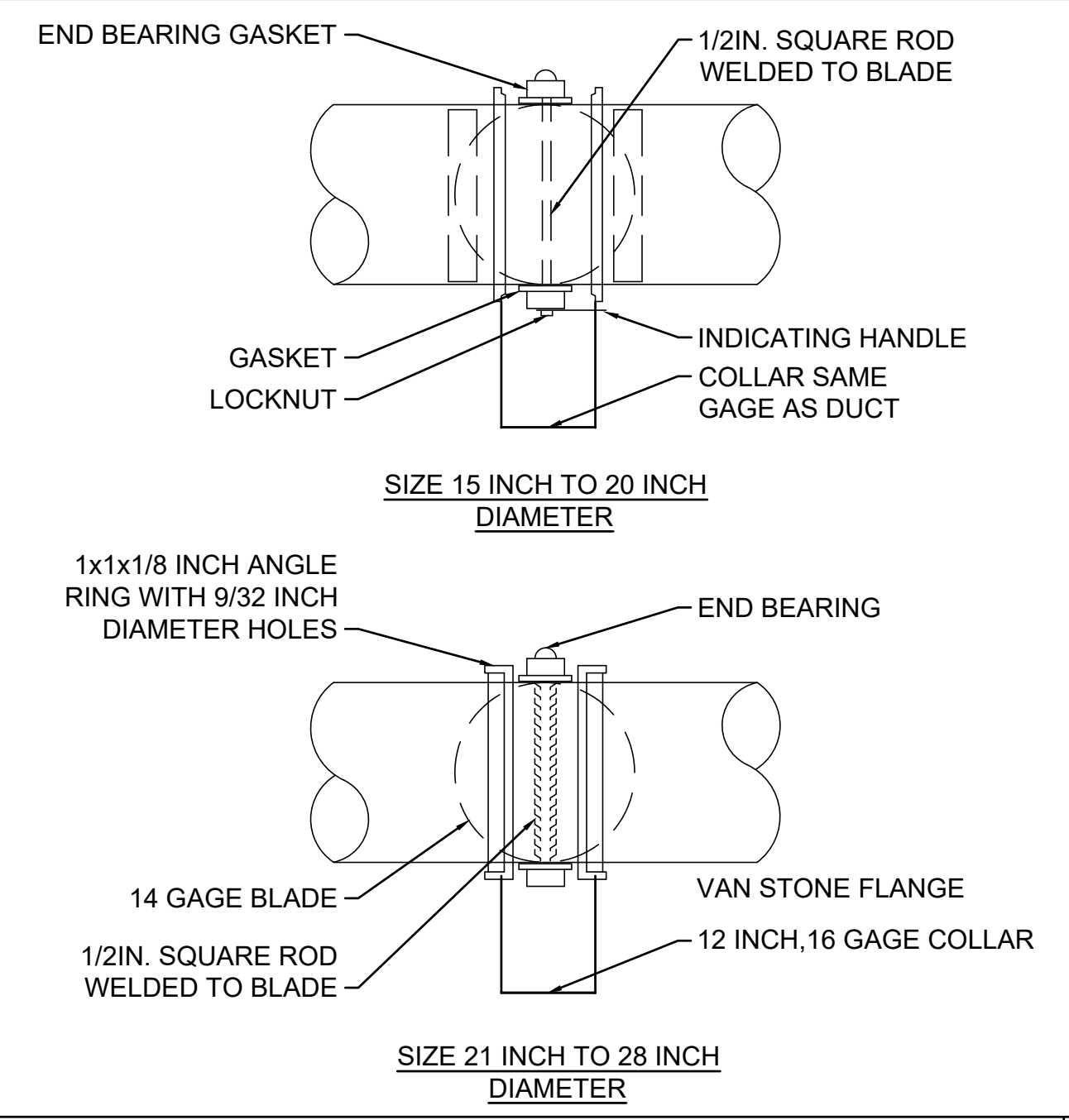
**VERTICAL DUCT ANCHORAGE**

|       |   |
|-------|---|
| SCALE | 3 |
| NONE  |   |



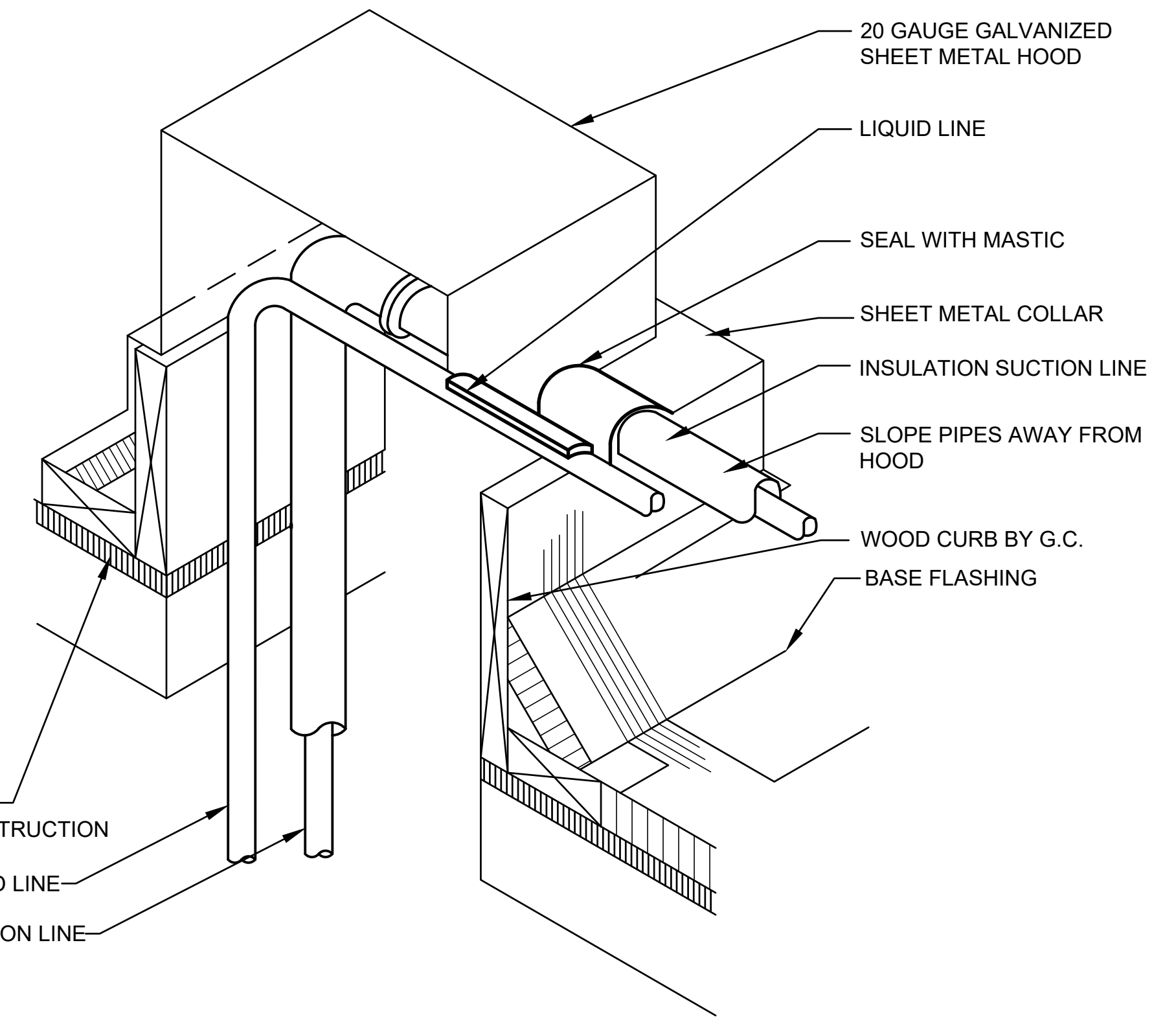
**CONTROL INSTALLATION DETAIL**

|       |   |
|-------|---|
| SCALE | 4 |
| NONE  |   |



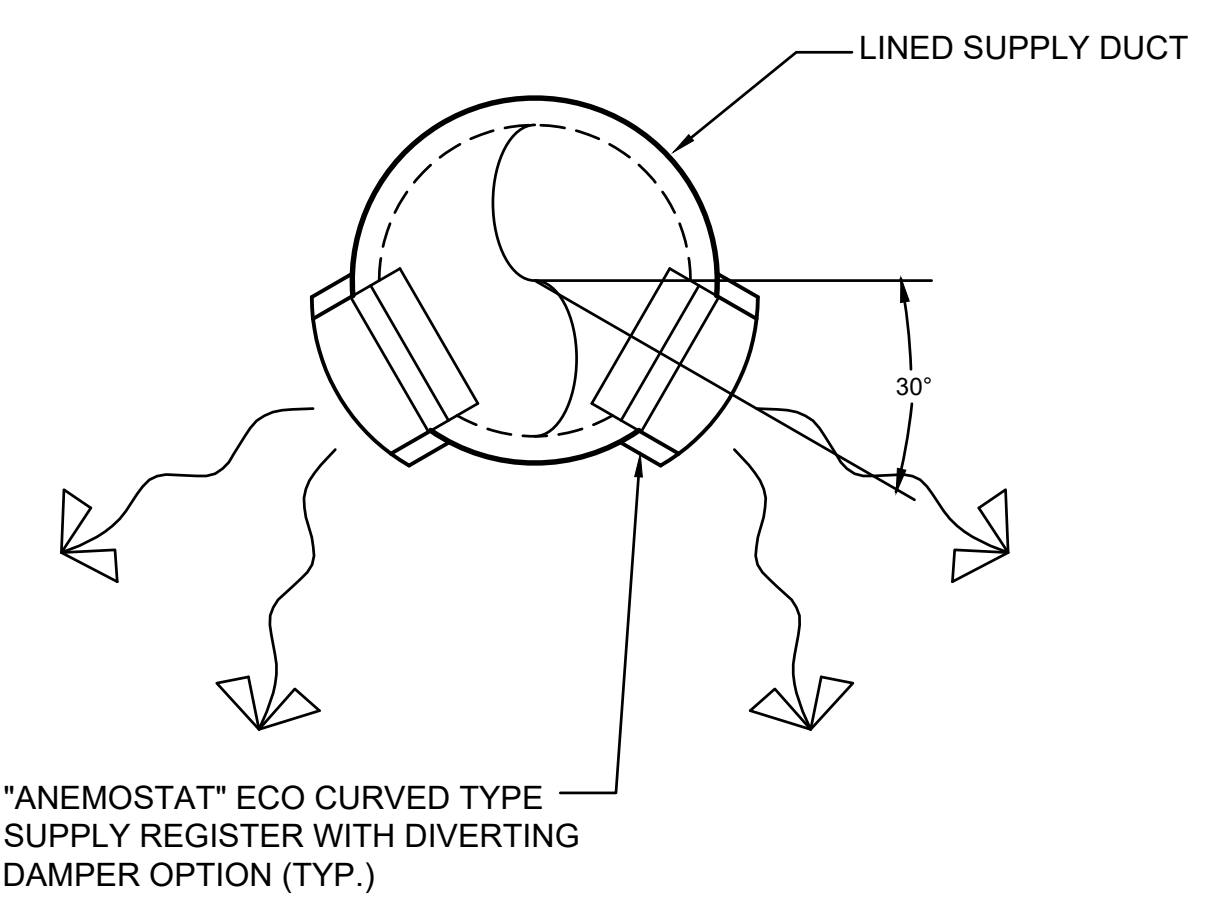
**VOLUME DAMPER LARGER THAN 14 IN. DIAMETER**

|       |   |
|-------|---|
| SCALE | 5 |
| NONE  |   |



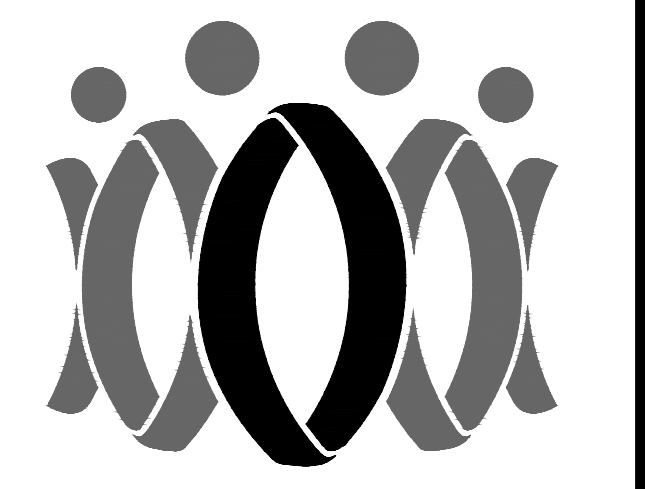
**PIPING THROUGH ROOF DIAGRAM**

|       |   |
|-------|---|
| SCALE | 1 |
| NONE  |   |



**SUSPENDED DUCT BELOW CEILING WITH SUPPLY REGISTER DIAGRAM**

|       |   |
|-------|---|
| SCALE | 2 |
| NONE  |   |



**FLEWELLING & MOODY**  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 213.543.0300  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247  
CHARLLO OFFICE (951) 261-8100  
GLENNDALE OFFICE (626) 244-1822  
TEL: 951.261.8100



Drawn by: \_\_\_\_\_  
Checked by: \_\_\_\_\_

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific job. Any use of these plans or specifications on any other job is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

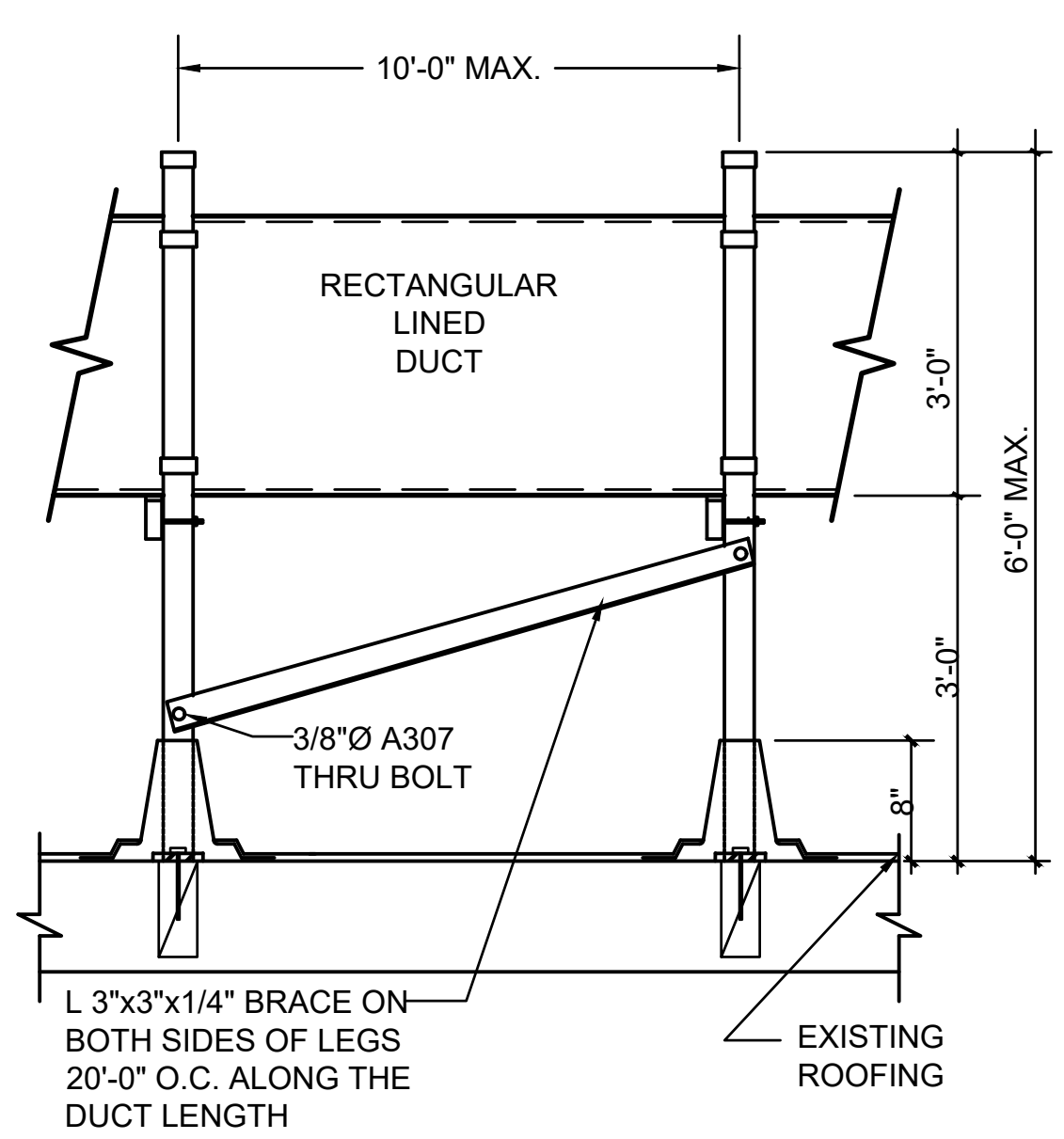
HVAC DIAGRAMS

Job No. 2847 (2/20)  
Date 10/23/2020  
**M-603**

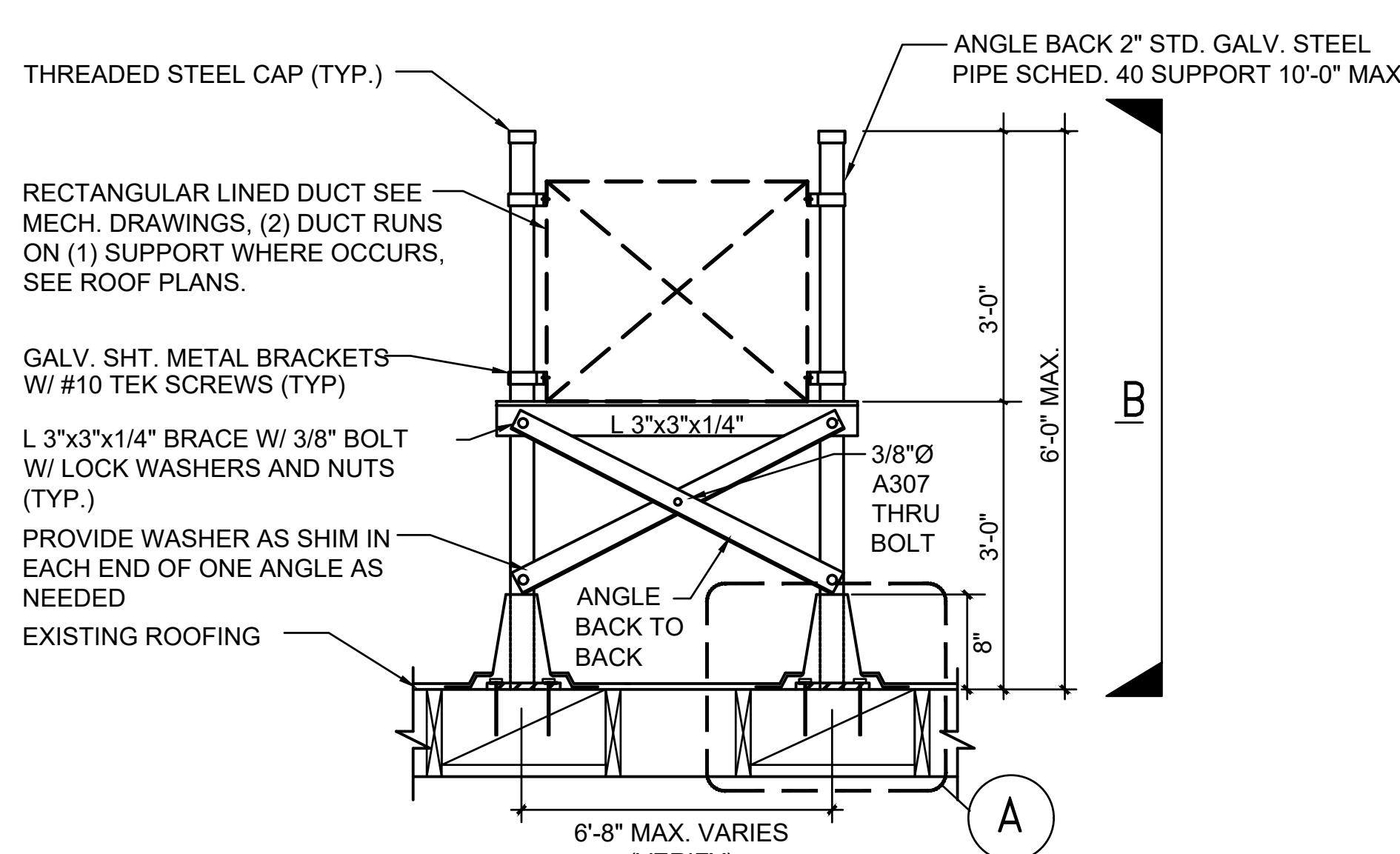
FOR BASE PLATE AND BLOCKING, SEE STRUCTURAL DETAIL 7/S-303.

NOTE: -  
 1. TORQUE TEST REQUIRED FOR ALL UNISTRUT FRICION BOLTS PER MANUFACTURERS RECOMMENDATION  
 2. POSTS SHALL BE INSTALLED VERTICAL AND PLUMB. PROVIDE BASE PLATE SO AS TO ACCOMMODATE ROOF SLOPE. FIELD VERIFY ROOF SLOPE PRIOR TO FABRICATION.

**A LEG STAND DIAGRAM**



**B DUCT ELEVATION**

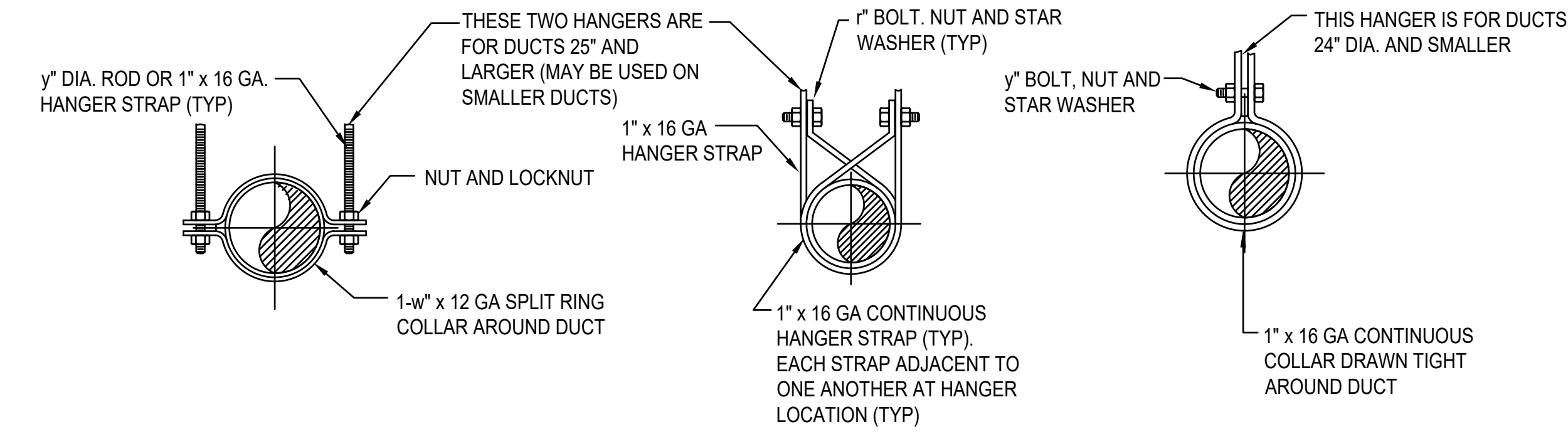


**C DUCT SECTION**

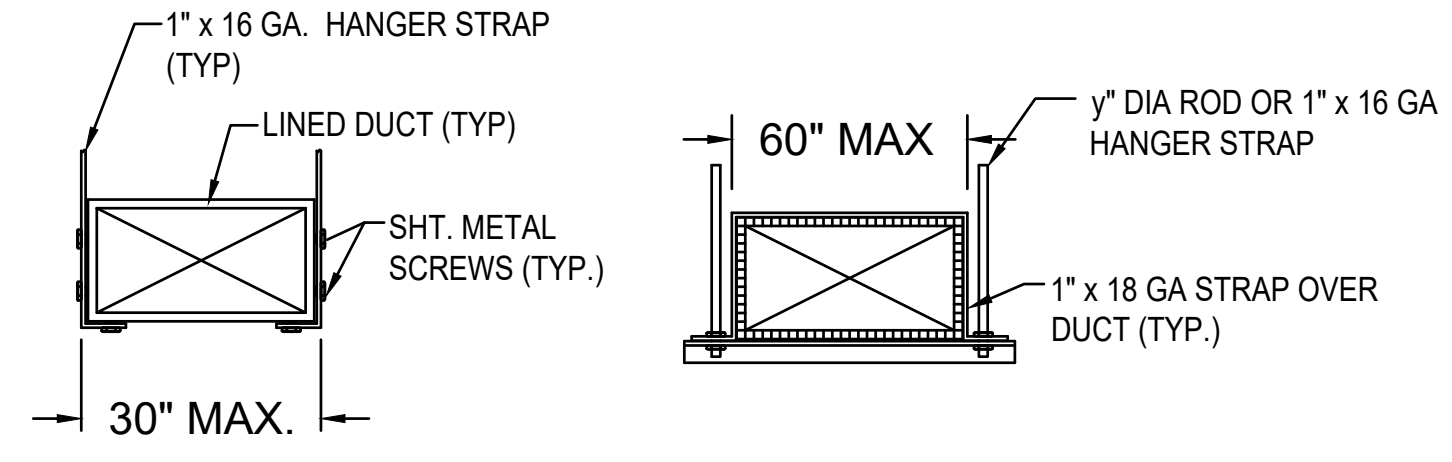


**ROOF DUCT SUPPORT DETAIL**

SCALE NONE 4



**ROUND DUCT HANGER**



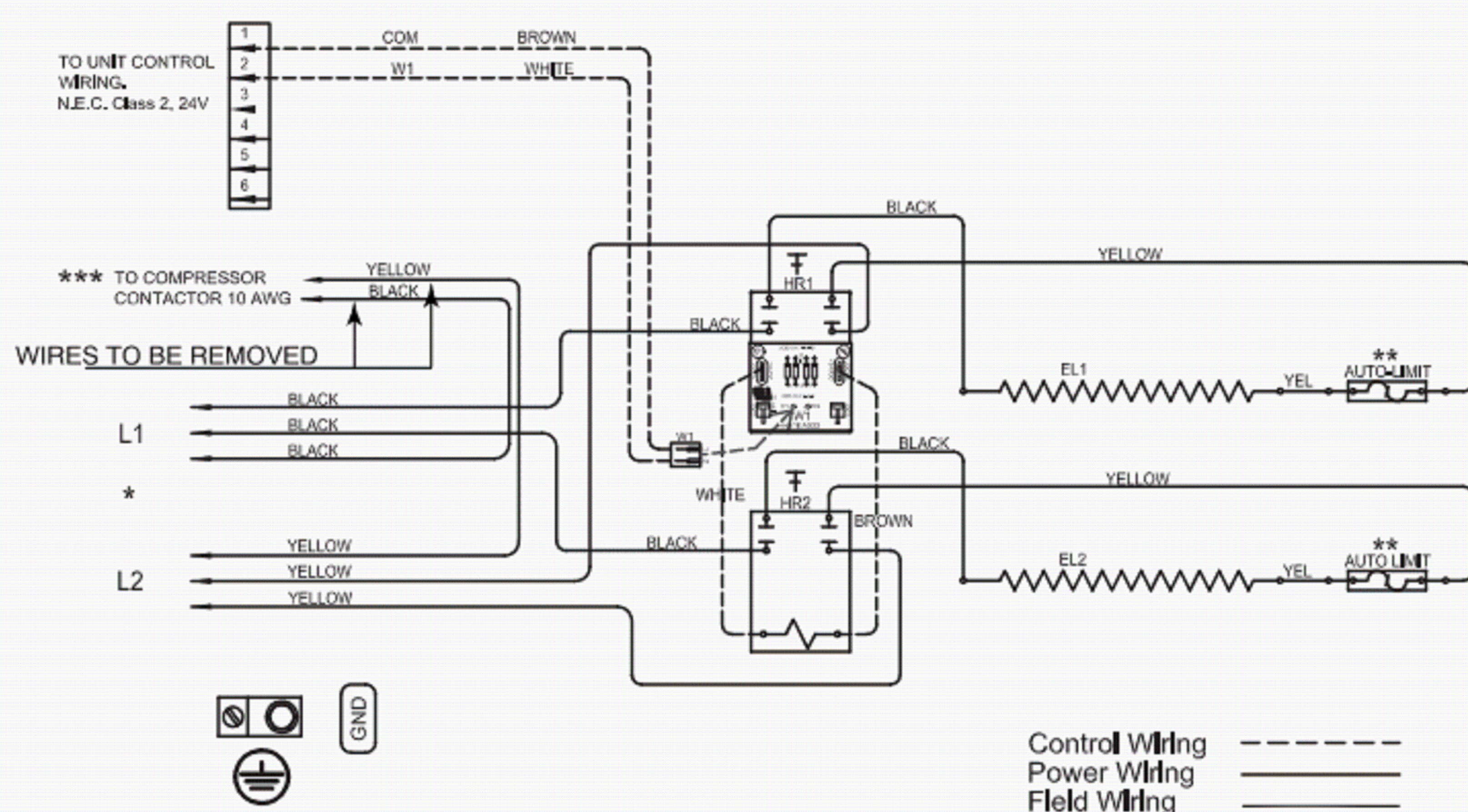
**RECTANGULAR DUCT HANGER**

NOTES:  
 1. REFER TO STRUCTURAL DETAIL 4/S302 FOR UPPER ATTACHMENTS  
 2. ALL TOPS OF DUCTS TO BE WITHIN 12" FROM STRUCTURE.

**TYPICAL DUCT HANGER DETAILS**

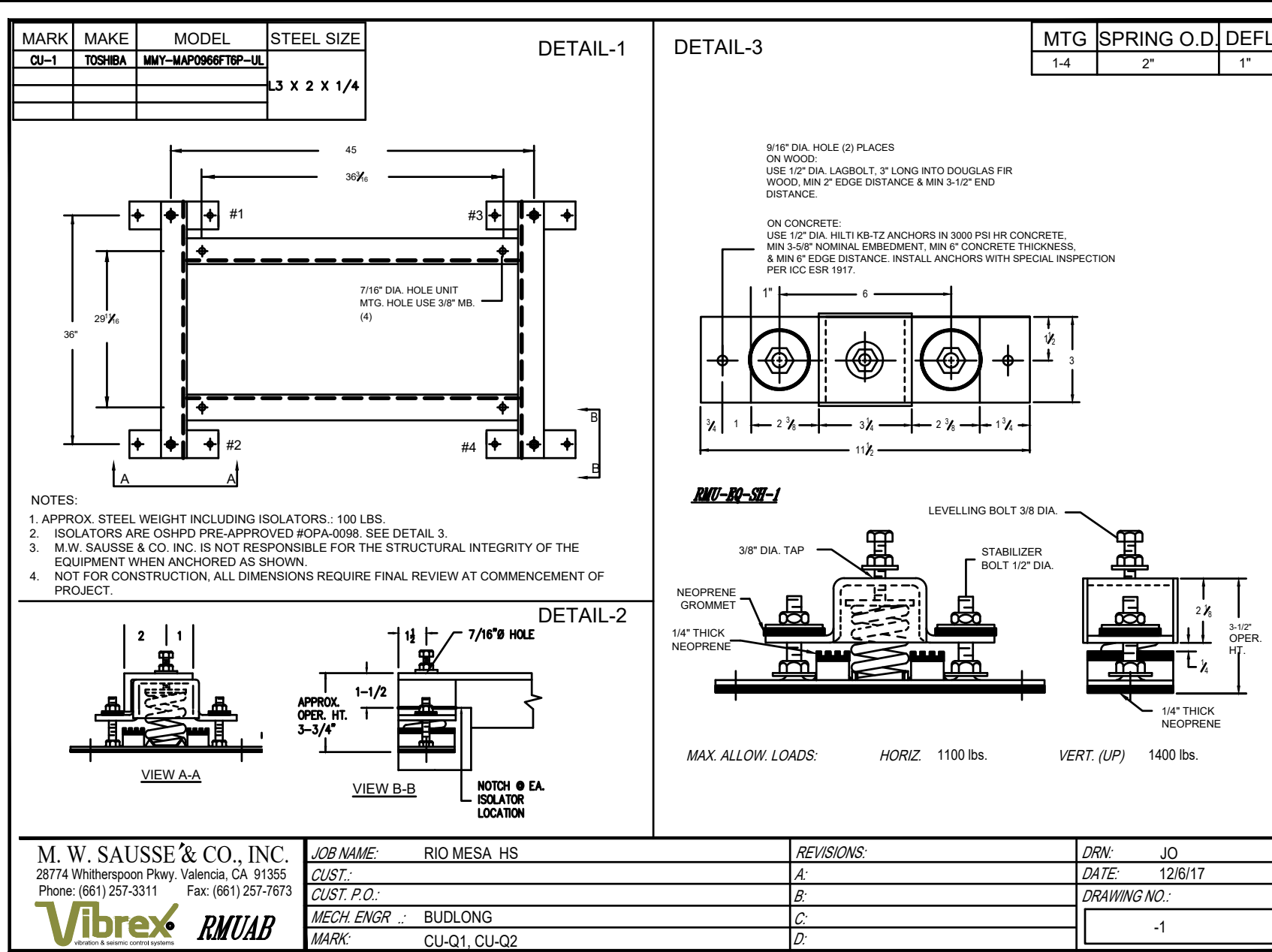
SCALE NONE 1

**Fig. 5 - Wiring Diagram Example for Non-Fused Heater**



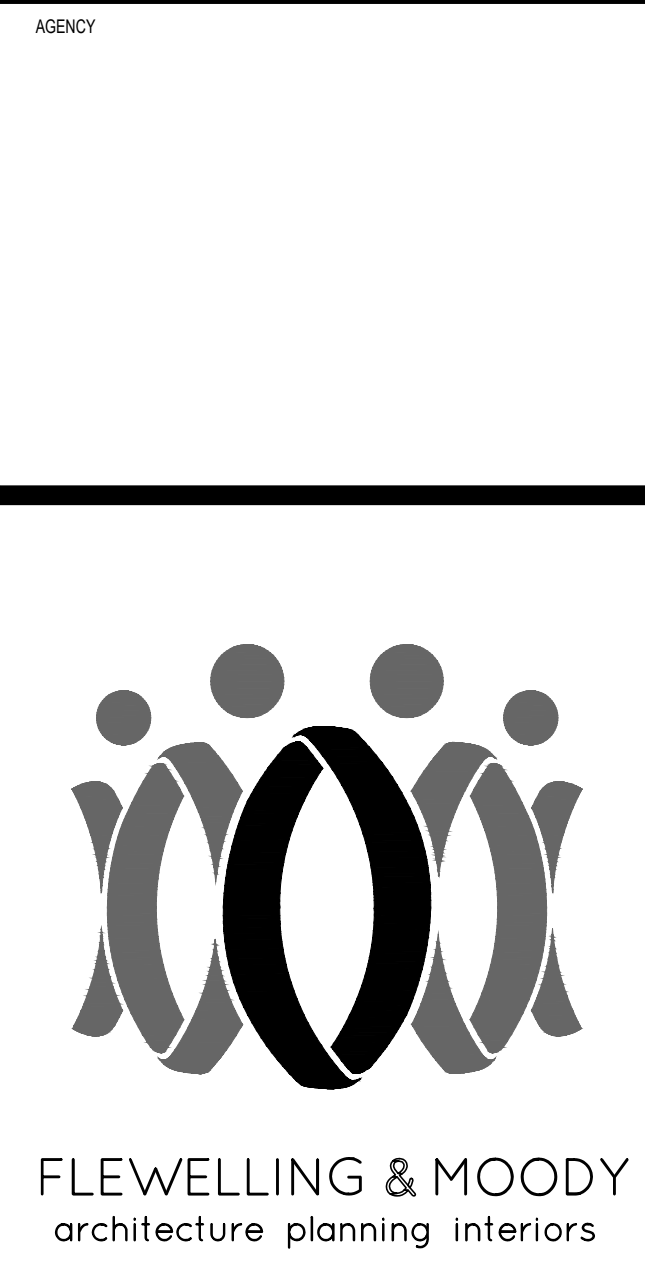
**(E) PHPU/K1 WIRING DIAGRAM FOR NON-FUSED HEATER**

SCALE NONE 2



**VRF OUTDOOR UNIT ANCHORAGE DETAIL (CU-K1)**

SCALE NONE 3



HEADQUARTERS OFFICE:  
 815 Colorado Blvd, Suite 200  
 Los Angeles, CA 90041  
 P: 213.543.5300  
 E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
 1035 West Lancaster Boulevard  
 Lancaster, California 93534  
 P: 661.949.0771  
 E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

**ba** BUDLONG & ASSOCIATES, INC.  
 MECHANICAL CONSULTING ENGINEERS  
 Job No. 19-247



Drawn by: \_\_\_\_\_  
 Checked by: \_\_\_\_\_  
 Revisions:  
 No. Date Description

OXNARD UNION HIGH SCHOOL DISTRICT  
 RIO MESA HIGH SCHOOL ALTERATION PROJECT  
 545 CENTRAL AVE  
 OXNARD, CA 93036

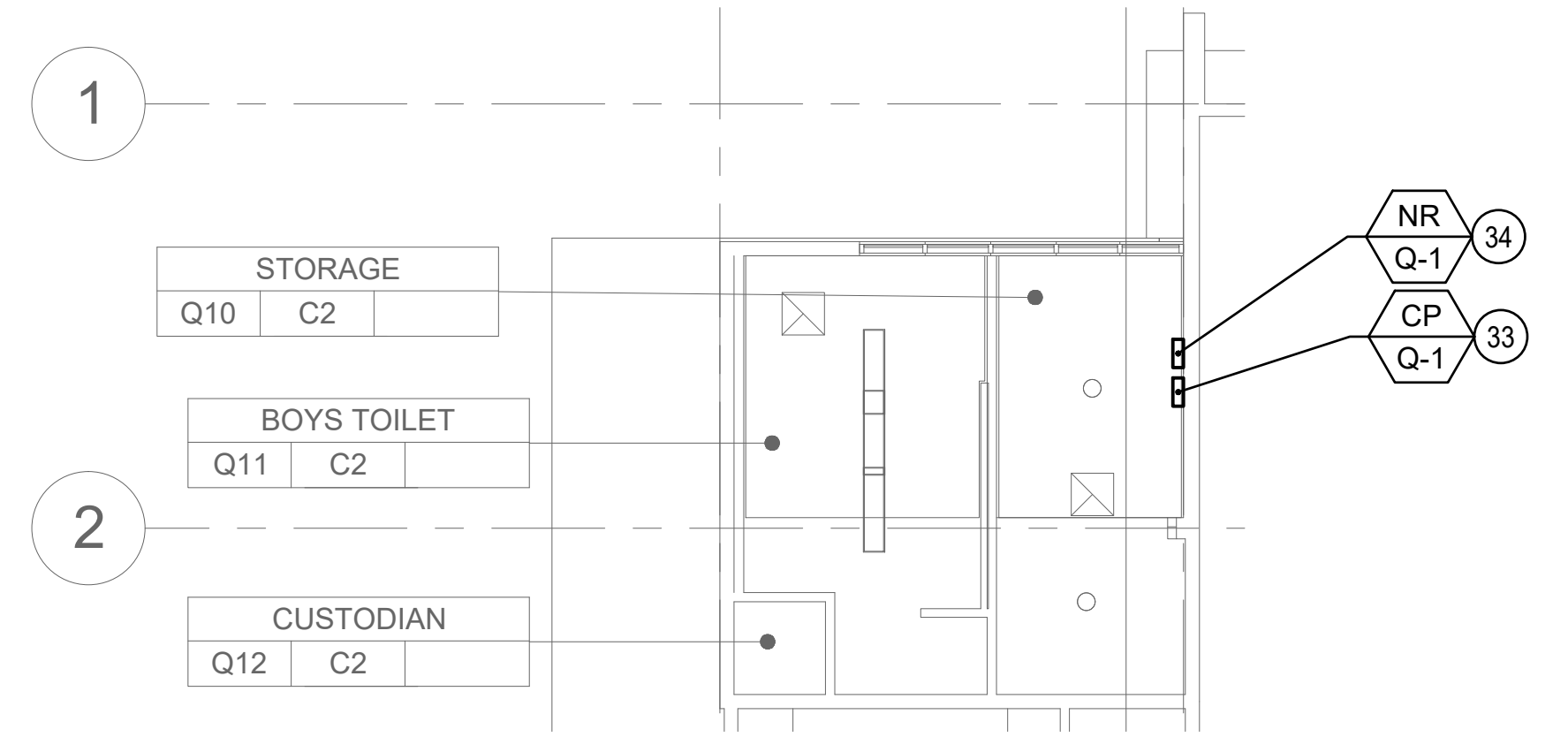
HVAC DIAGRAMS

Job No. 2847.0200  
 Date 10/23/2020  
**M-607**

**CONSTRUCTION KEY NOTES**

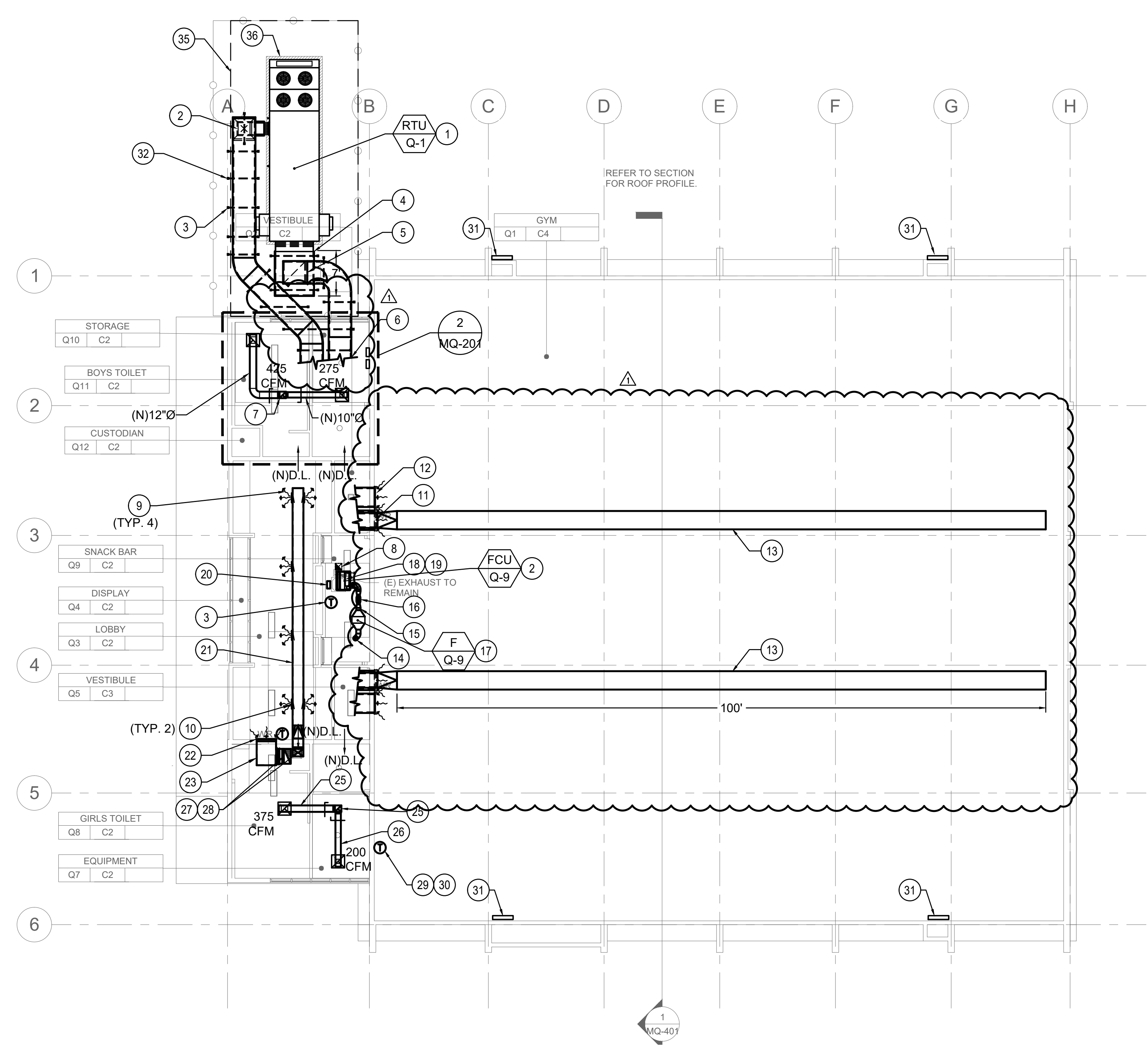
- 1 (N) PACKAGED UNIT ON LEVELED PAD ON GRADE.
- 2 (N) 22x54(L) SA DUCT TRANSITIONS UP TO (N) 38x38(L). BOTTOM OF DUCT TO BE ABOVE ADJACENT ROOF LEVEL. FOR WALL ANCHORAGE SEE DIAGRAM #3 ON SHEET M-603.
- 3 FOR DUCT BRACING SEE STRUCTURAL DETAIL 5 ON SHEET S-303.
- 4 (N) 68x28(L) RETURN AIR PLENUM WITH (N) 24x24 ACCESS DOOR.
- 5 (N) 38x38(L) RA DUCT UP TO LOWER ROOF ELEVATION.
- 6 (N) 38x38(L) SUPPLY AND RETURN DUCTS. FOR CONTINUATION SEE SHEET MQ-202.
- 7 (N) 14x14 EXHAUST DUCT UP THRU ROOF TO EF/Q-1.
- 8 (E) EXHAUST REGISTER. SHOWN FOR REFERENCE ONLY.
- 9 (N) 12x8 @ 300 CFM (TYP. 4)
- 10 (N) 10x8 @ 225 CFM (TYP. 2)
- 11 (N) 24x38(L) SUPPLY DUCT THRU WINDOW ABOVE RETURN REGISTER (TYP. 2)
- 12 (N) 32x36(L) RR @ 4000 CFM (TYP. 4)
- 13 (N) 34"Ø SUPPLY DUCTSOX FABRIC DUCTWORK SET @ 3000 CFM AT 23'-0" A.F.F. SEE DIAGRAM #1 ON SHEET M601 (TYP. 2)
- 14 (N) 8"Ø OUTSIDE AIR DUCT UP TO ROOF.
- 15 (N) 8"Ø OUTSIDE AIR DUCT TO FCU.
- 16 (N) OUTSIDE AIR INLINE BOOSTER FAN.
- 17 (N) OUTSIDE AIR FILTER BOX.
- 18 (N) REFRIGERATION PIPING UP THRU ROOF TO ROOF MOUNTED HEAT PUMP.
- 19 (N) CONDENSATE PIPING CONNECTION. FOR CONTINUATION SEE PLUMBING PLANS.
- 20 (N) 24V THERMOSTAT INTERFACE.
- 21 (N) 18"Ø SUPPLY AIR DUCT.
- 22 (N) 36x18 RR @ 1750 CFM
- 23 (N) 36x18(L) EXHAUST PLENUM.
- 24 (N) 12x8 EXHAUST DUCT.
- 25 (N) 12x12 EXHAUST DUCT UP THRU ROOF TO EF/Q-2
- 26 (N) 10x6 EXHAUST DUCT.
- 27 (N) 18x12 SA AND (N) 10x26 RA DUCTS FROM RTU UNIT ON ROOF.
- 28 ELECTRICAL CONTRACTOR TO PROVIDE CO SENSOR ADJACENT TO THE FIRST SUPPLY DIFFUSER.
- 29 (N) WALL MOUNTED THERMOSTAT. PROVIDE (N) THERMOSTAT WITH INSULATED MOUNTING BACKING WHEN MOUNTED ON EXTERIOR WALLS.
- 30 PROVIDE THERMOSTAT WITH PROTECTIVE COVER.
- 31 INFILL/PATCH WALL AT DEMOLISHED RELIEF AIR ASSEMBLY OPENING TO MATCH EXISTING SURROUNDING AREA. SEE ARCHITECTURAL.
- 32 SEE 4/M-603 FOR 50 TON UNIT DUCT SUPPORTS AT GRADE.
- 33 PROVIDE NEW 120V CONTROL PANEL WITH ALL RELATED ACCESSORIES. PROVIDE MOUNTING AS REQUIRED. SEE ELECTRICAL FOR MORE INFORMATION.
- 34 PROVIDE NEW 120V NETWORK LINK WITH ALL RELATED ACCESSORIES. PROVIDE MOUNTING AS REQUIRED. SEE ELECTRICAL FOR MORE INFORMATION.
- 35 HVAC EQUIPMENT MAINTENANCE CLEARANCE (TYP.)
- 36 LEVELED CONCRETE PAD ON GRADE (SEE STRUCTURAL DWGS).

NOTE: CEILING FINISHES NOT SHOWN FOR CLARITY. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

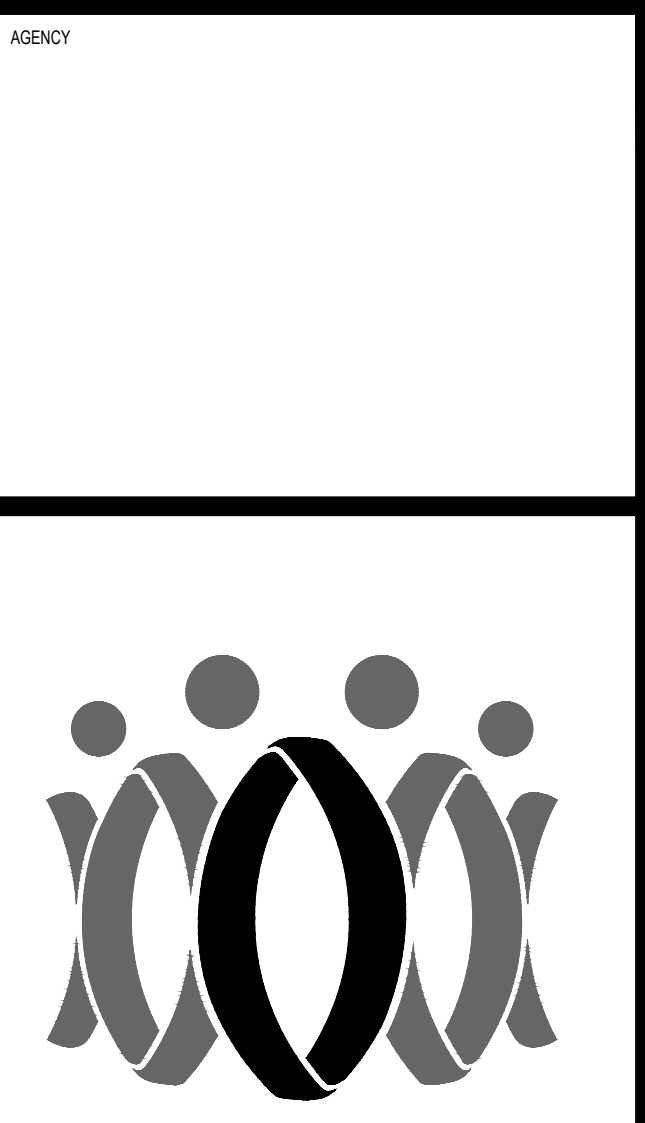
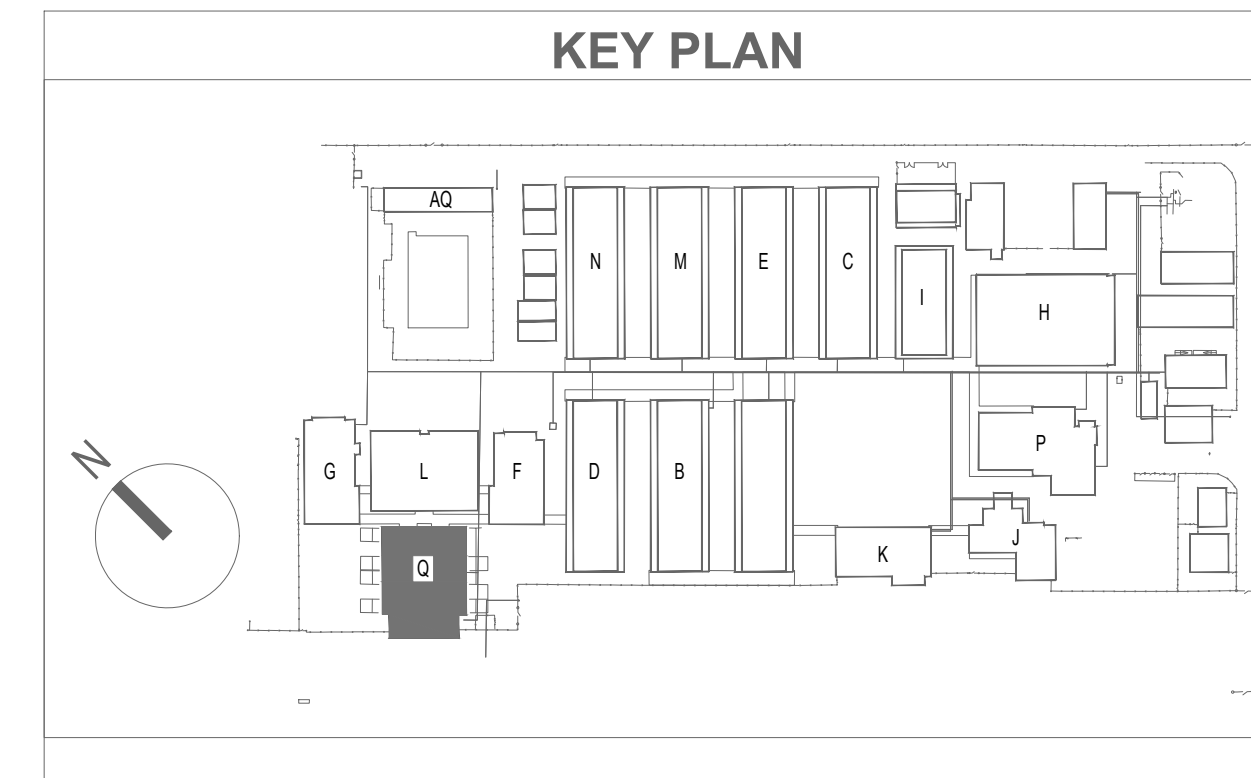


NOTE: ENLARGED PLAN IS TO SHOW LOCATIONS OF THE CONTROL PANELS. REFER TO CONTROLS RISER DIAGRAMS FOR WIRING.

2 CONTROL PANELS ENLARGED PLAN  
1/8" = 1'-0"



1 GYM BUILDING 'Q' RECONSTRUCTION HVAC RCP PLAN  
3/32" = 1'-0"



FLEWELLING & MOODY  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.0300  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT  
CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247



|            |             |
|------------|-------------|
| Drawn by   |             |
| Checked by |             |
| Revised    |             |
| No.        | Date        |
|            | Description |

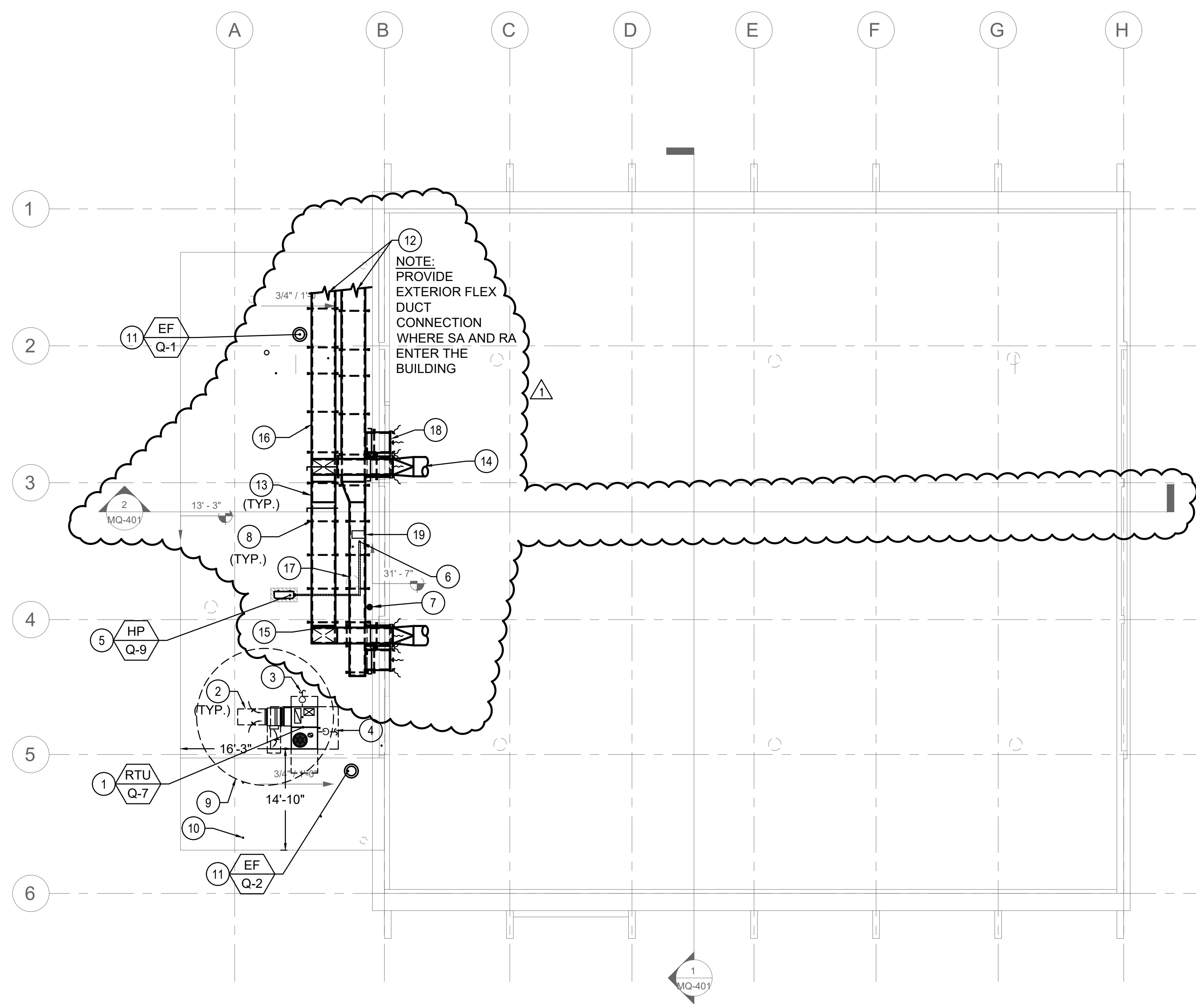
All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific job. Any part of responsibility for their use on other sites is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

GYM BUILDING 'Q'  
RECONSTRUCTION  
HVAC PLAN

Job No.  
2847 0200  
Date  
10/23/2020  
**MQ-201**

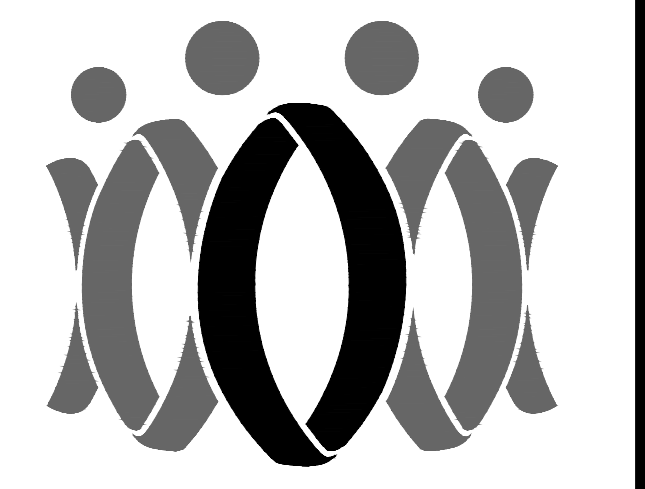




1 GYM BUILDING 'Q' HVAC ROOF PLAN  
3/32" = 1'-0"

### CONSTRUCTION KEY NOTES

- 1 (N) ROOFTOP UNIT.
- 2 HVAC EQUIPMENT MAINTENANCE CLEARANCE (TYP).
- 3 (N) CONDENSATE DRAIN CONNECTION. FOR CONTINUATION SEE PLUMBING DRAWINGS.
- 4 (N) GAS CONNECTION. FOR CONTINUATION SEE PLUMBING DRAWINGS.
- 5 (N) SINGLE SPLIT HEAT PUMP UNIT WITH LEVELED PLATFORM.
- 6 (N) REFRIGERATION PIPING DOWN THRU ROOF TO FAN/COIL UNIT.
- 7 (N) 8" Ø OUTSIDE AIR INTAKE WITH ROOF CURB, ROOF CAP BACKDRAFT DAMPER AND INSECT SCREEN.
- 8 (N) ROOF MOUNTED DUCT SUPPORT (TYP.). SEE DETAIL 4 ON SHEET M-607.
- 9 RE-ROUTE (E) PLUMBING VENTS MINIMUM 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKE. SEE PLUMBING DRAWINGS (TYP.)
- 10 (E) PLUMBING VENT TO REMAIN.
- 11 (N) ROOF MOUNTED EXHAUST FAN WITH ROOF CURB, INSECT SCREEN AND BACKDRAFT DAMPER.
- 12 (N) 38x38(L) SUPPLY AND RETURN DUCTS. FOR CONTINUATION SEE SHEET MQ-201
- 13 ALL DUCTS ON ROOF TO BE 22-GAUGE.
- 14 (N) 34" Ø SUPPLY DUCTSOX. FOR CONTINUATION SEE SHEET MQ-201 (TYP. 2).
- 15 (N) 38x24(L) SUPPLY AIR DUCT.
- 16 (N) 24x38(L) SUPPLY DUCT BRACH CONNECTED FROM ABOVE MAIN DUCT.
- 17 (N) 24x38(L) RETURN AIR DUCT.
- 18 (N) 32x36(L) RR @ 4000 CFM (TYP. 4)
- 19 (E) EXHAUST ROOF VENT TO REMAIN (BELOW RETURN DUCT)



FLEWELLING & MOODY  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.0000  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247  
 CAMARILLO OFFICE  
 GLENDALE OFFICE



Drawn by \_\_\_\_\_  
Checked by \_\_\_\_\_

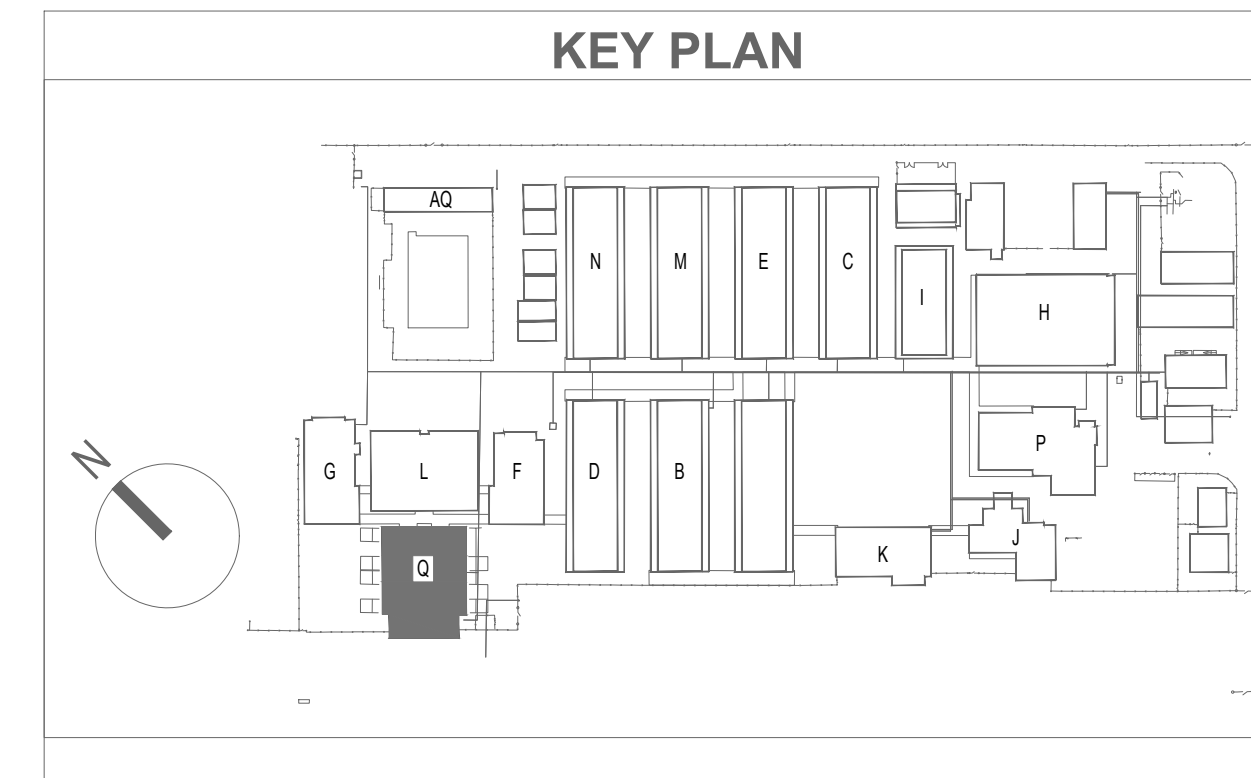
| Revisions | No. | Date | Description |
|-----------|-----|------|-------------|
|           |     |      |             |
|           |     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared by a specific job. Any part of responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

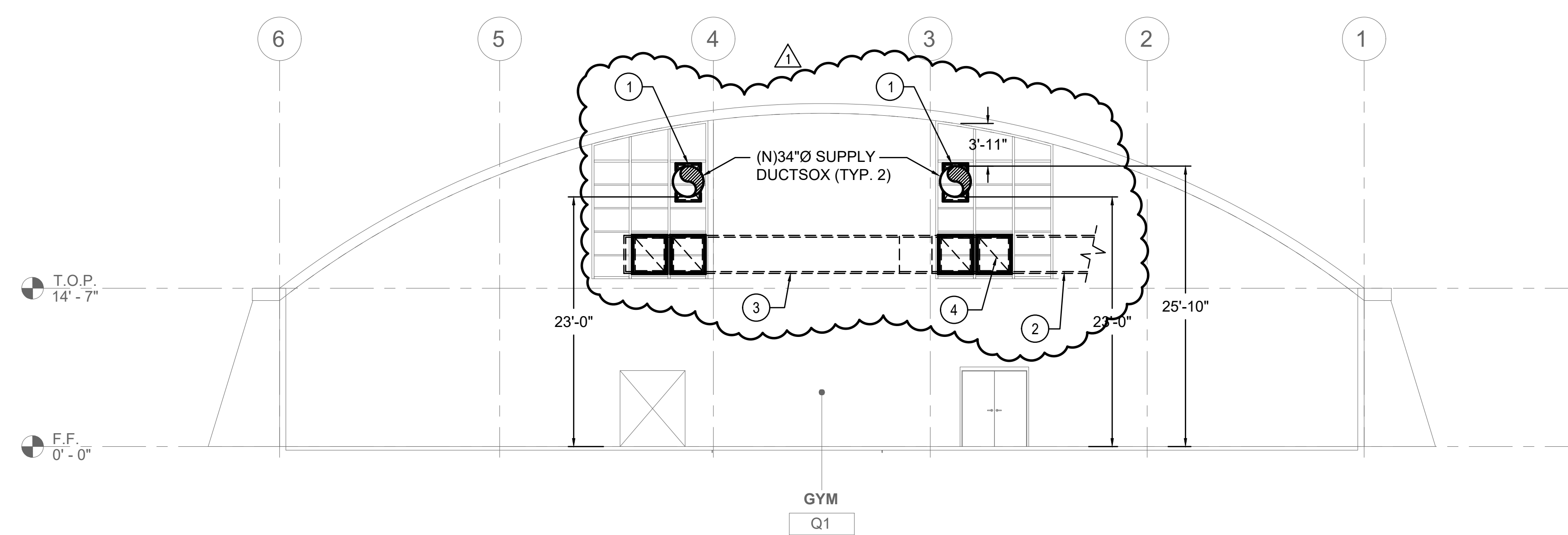
GYM BUILDING 'Q'  
HVAC ROOF PLAN

Job No. 2847.0200  
Date 10/23/2020  
**MQ-202**

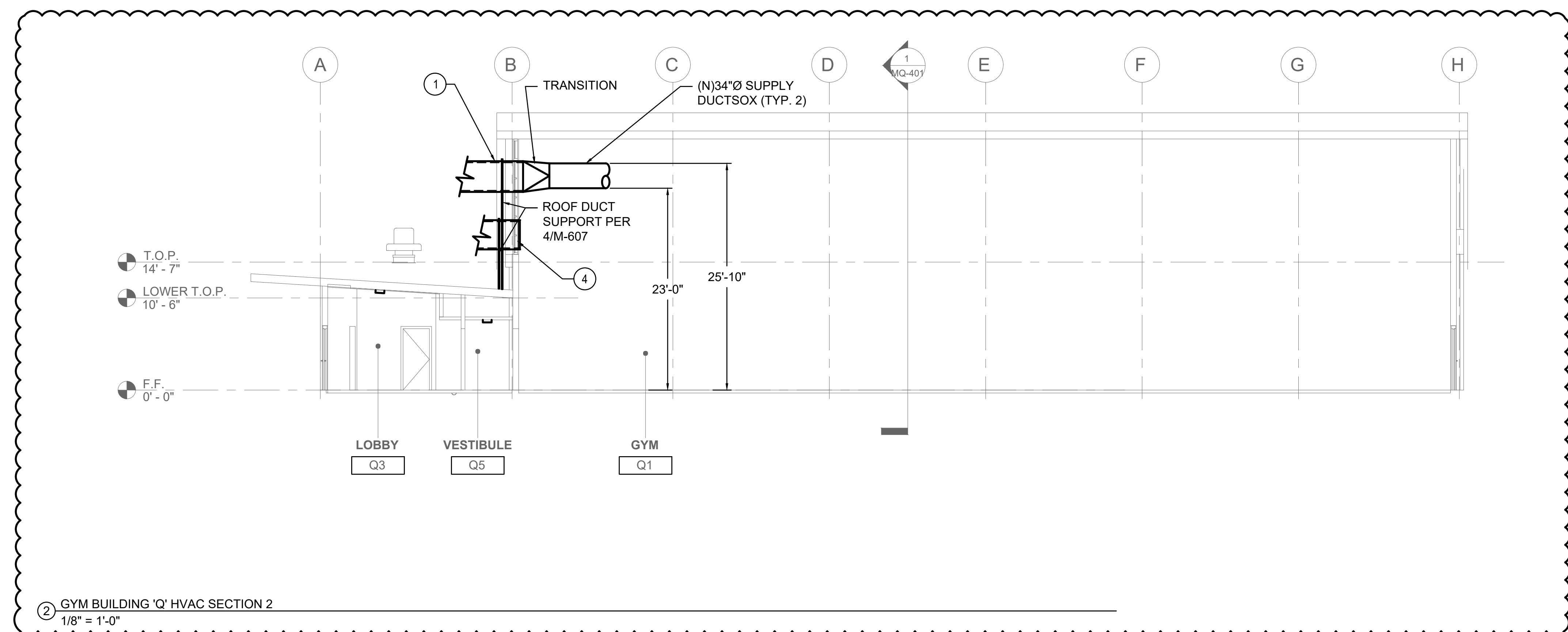


**CONSTRUCTION KEY NOTES**

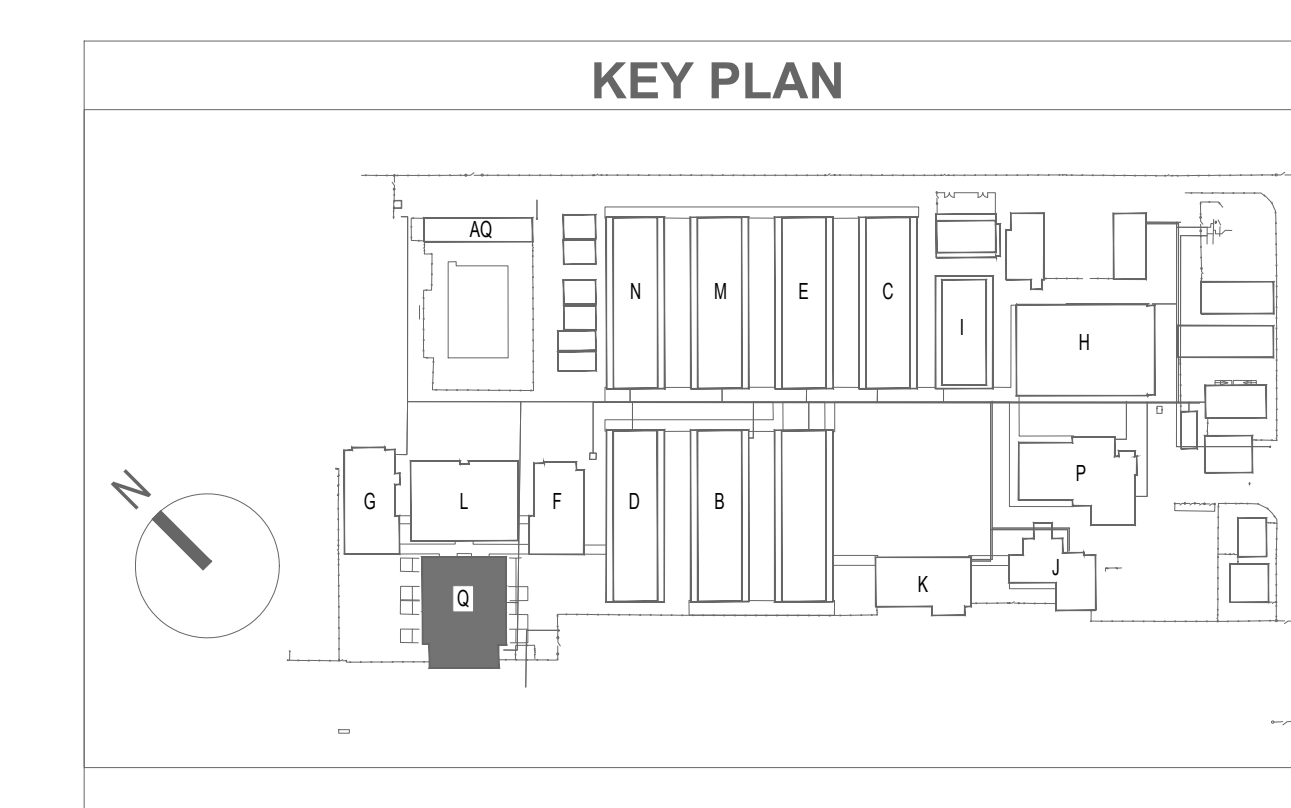
- ① (N)24x38(L) SUPPLY DUCT THRU WINDOW.
- ② (N)38x38(L) RETURN AIR DUCT BEYOND (SEE SHEET MQ-201).
- ③ (N)38x24(L) RETURN AIR DUCT BEYOND (SEE SHEET MQ-201).
- ④ (N)32x36(L) RR @ 4000 CFM (TYP. 4).



① GYM BUILDING 'Q' HVAC SECTION 1  
1/8" = 1'-0"



② GYM BUILDING 'Q' HVAC SECTION 2  
1/8" = 1'-0"



AGENCY



**FLEWELLING & MOODY**  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.0000  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247

✓ CARROLLLO OFFICE  
10000 W. CENTRAL AVE. #100  
LOS ANGELES, CA 90024  
TEL: 323.441.1111

✓ GLENDALE OFFICE  
10000 W. CENTRAL AVE. #100  
LOS ANGELES, CA 90024  
TEL: 323.441.1111



Drawn by: \_\_\_\_\_

Checked by: \_\_\_\_\_

Revisions

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |

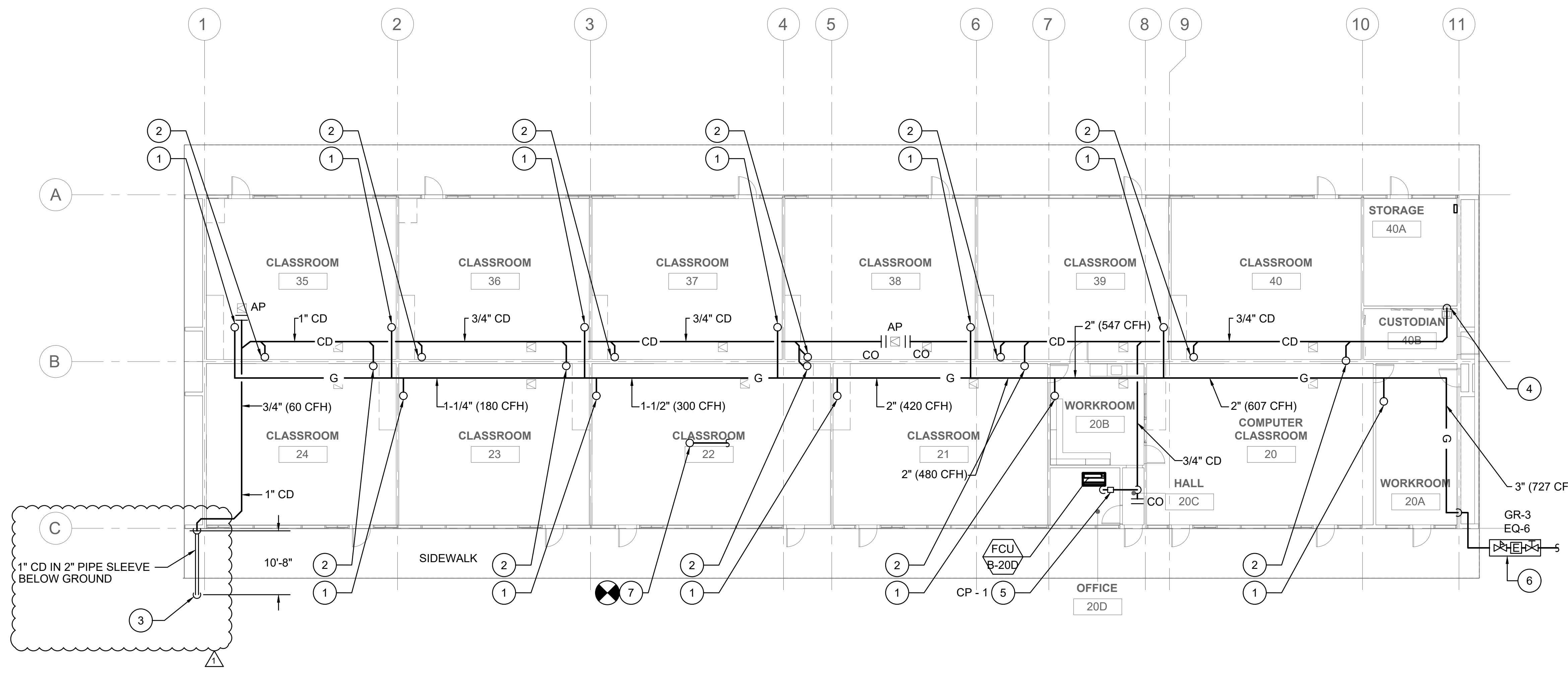
All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared by a specific job. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

GYM BUILDING "Q"  
HVAC SECTIONS

Job No:  
2847.0200  
Date:  
10/23/2020

**MQ-401**



1 CLASSROOM BUILDING 'B' RECONSTRUCTION PLUMBING PLAN  
 3/32" = 1'-0"

**GENERAL NOTES**

- a. THERE SHALL BE NO SERVICE INTERRUPTION.
- b. PRIOR TO COMMENCING WORK CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF EXISTING GAS PIPING LINES AT THE FIELD.
- c. ALL PIPING ON THIS PLAN SHALL BE CONCEALED INSIDE THE WALL, FLOOR OR CEILING UNLESS NOTED OTHERWISE.
- d. REPAIR PAVING AFTER INSTALLATION AND INSPECTION OF UTILITIES INSTALLED. PAINT FLOOR TO MATCH PREVIOUS CONDITIONS.
- e. ALL NEW PIPE PENETRATION AT THE ROOF SHALL BE PROPERLY SEALED BY THE INSTALLING ROOF CONTRACTOR. SEE ARCHITECTURAL DRAWINGS.

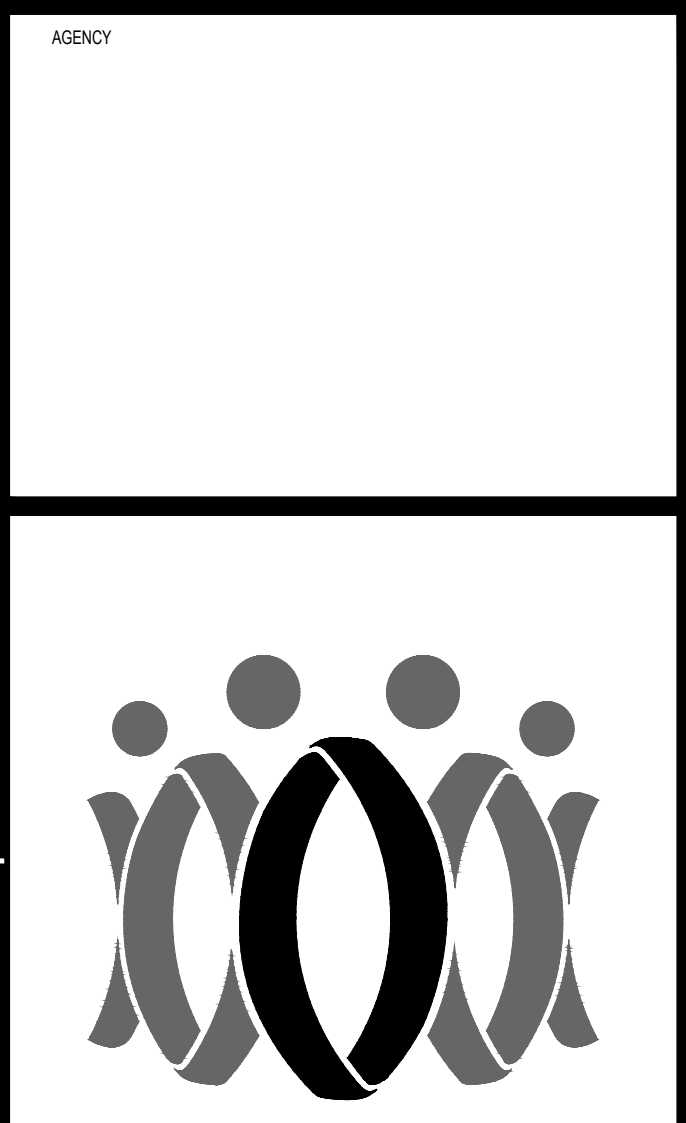
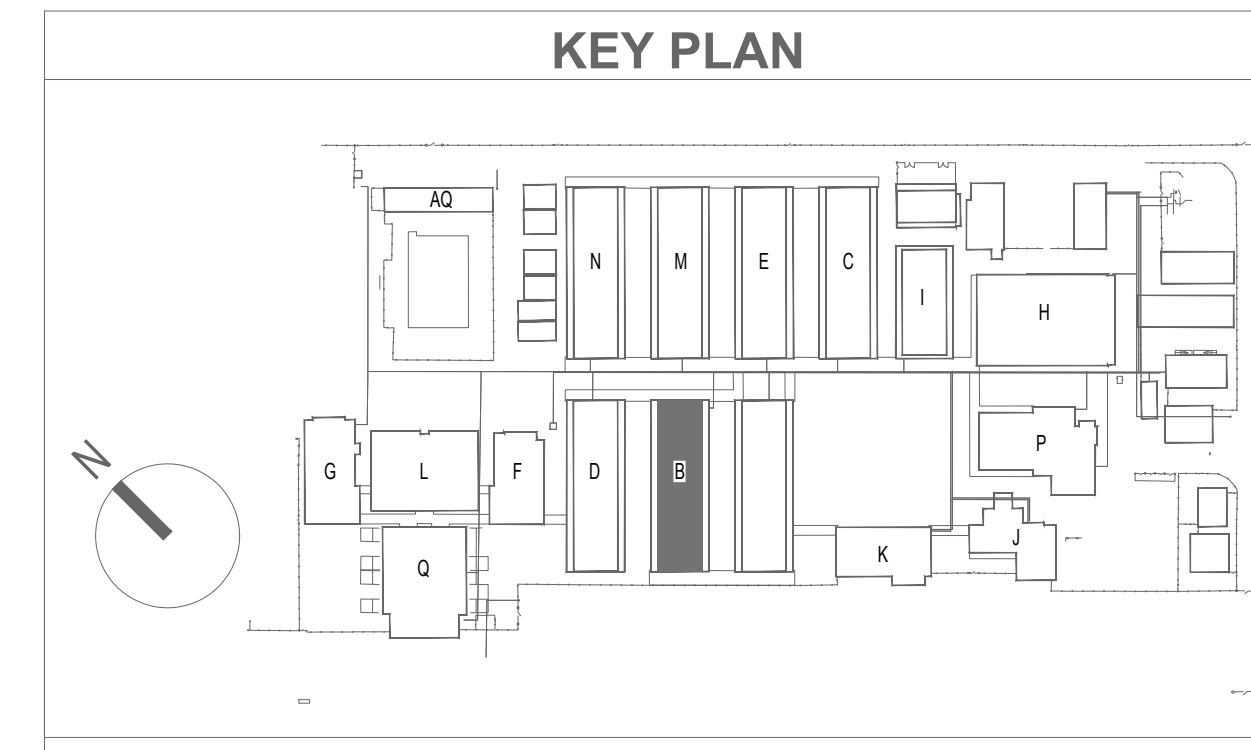
**CONSTRUCTION KEY NOTES**

- 1 PROVIDE GAS TO THE MECHANICAL UNIT LOCATED ON THE ROOF.
- 2 PROVIDE CONDENSATE DRAIN TO THE MECHANICAL UNIT LOCATED ON ROOF.
- 3 1" CD IN 2" PIPE SLEEVE TO DRY PIT PERDETAIL #8 P003. REPAIR SIDEWALK TO MATCH EXISTING CONDITIONS. VERIFY EXACT LOCATION IN FIELD.
- 4 PROVIDE 3/4" PUMPED CONDENSATE DRAIN TO THE LAVATORY TAIL PIECE. (SEE DET.#3.1/P-002)
- 5 CONDENSATE PUMP CONNECTED TO FAN COIL UNIT.
- 6 PROVIDE NEW GAS PRESSURE REGULATOR, EARTHQUAKE VALVE AND SHUT-OFF VALVE.
- 7 3/4" CW SUPPLY TO HOSE BIBB LOCATED ON ROOF. CONNECT WITH EXISTING WATER HEADER. CONTRACTOR TO VERIFY EXACT LOCATION ON FIELD.

**LOW PRESSURE GAS SIZING CHART**

250' TDL @ 8" W.C.

| PIPE   | MAX. CFH |
|--------|----------|
| 1/2"   | 30       |
| 3/4"   | 63       |
| 1"     | 119      |
| 1-1/4" | 244      |
| 1-1/2" | 366      |
| 2"     | 704      |
| 3"     | 1980     |
| 4"     | 4050     |



**FLEWELLING & MOODY**  
 architecture planning interiors

HEADQUARTERS OFFICE:  
 815 Colorado Blvd, Suite 200  
 Los Angeles, CA 90041  
 P: 213.543.5000  
 E-Mail: fm-pastadens@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
 1035 West Lancaster Boulevard  
 Lancaster, California 93534  
 P: 661.949.0771  
 E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

**ba** BUDLONG & ASSOCIATES, INC.  
 MEP CONSULTING ENGINEERS  
 Job No. 19-247



Drawn by: \_\_\_\_\_  
 Checked by: \_\_\_\_\_  
 Revisions:

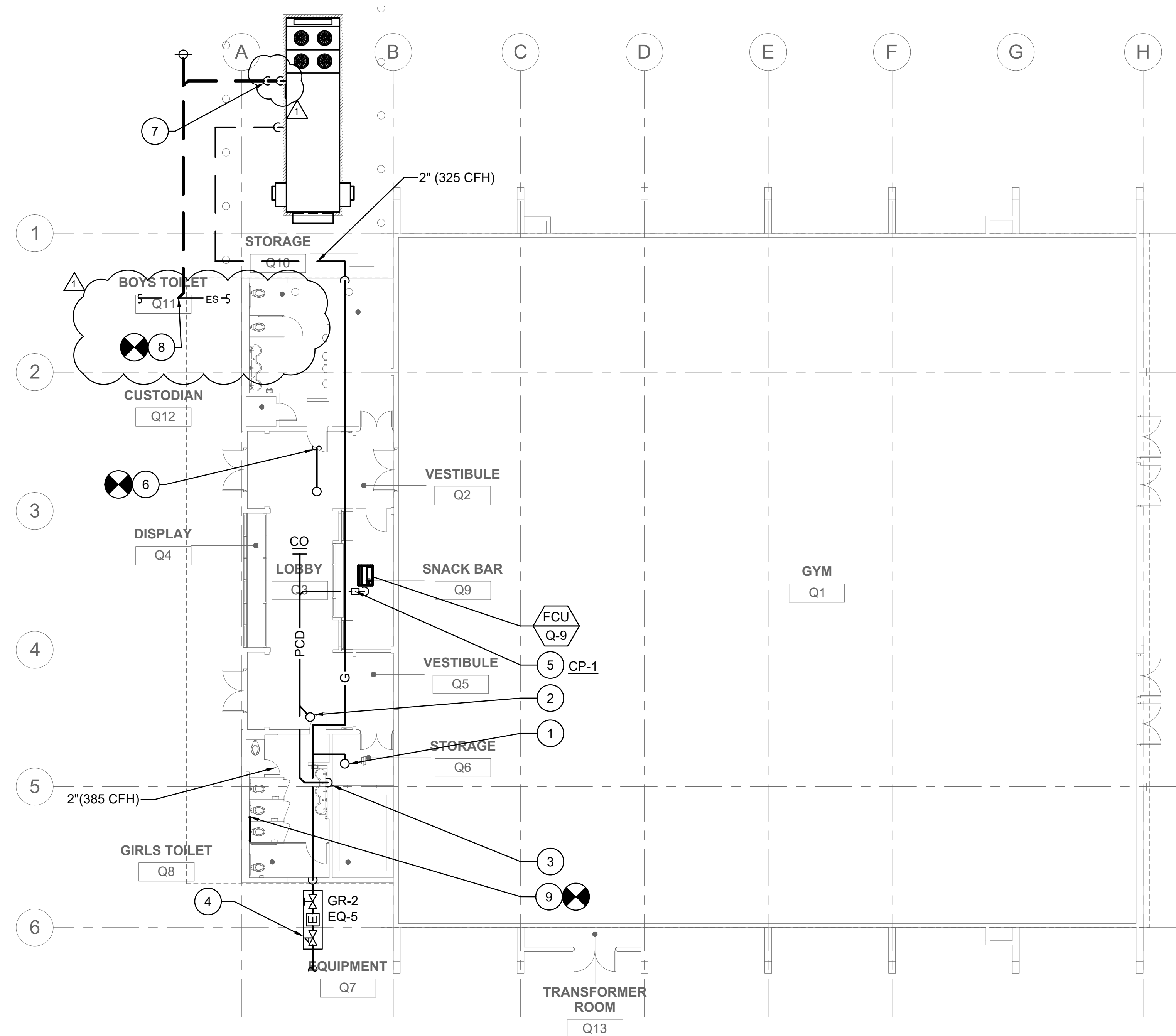
| No. | Date | Description |
|-----|------|-------------|
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific job. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

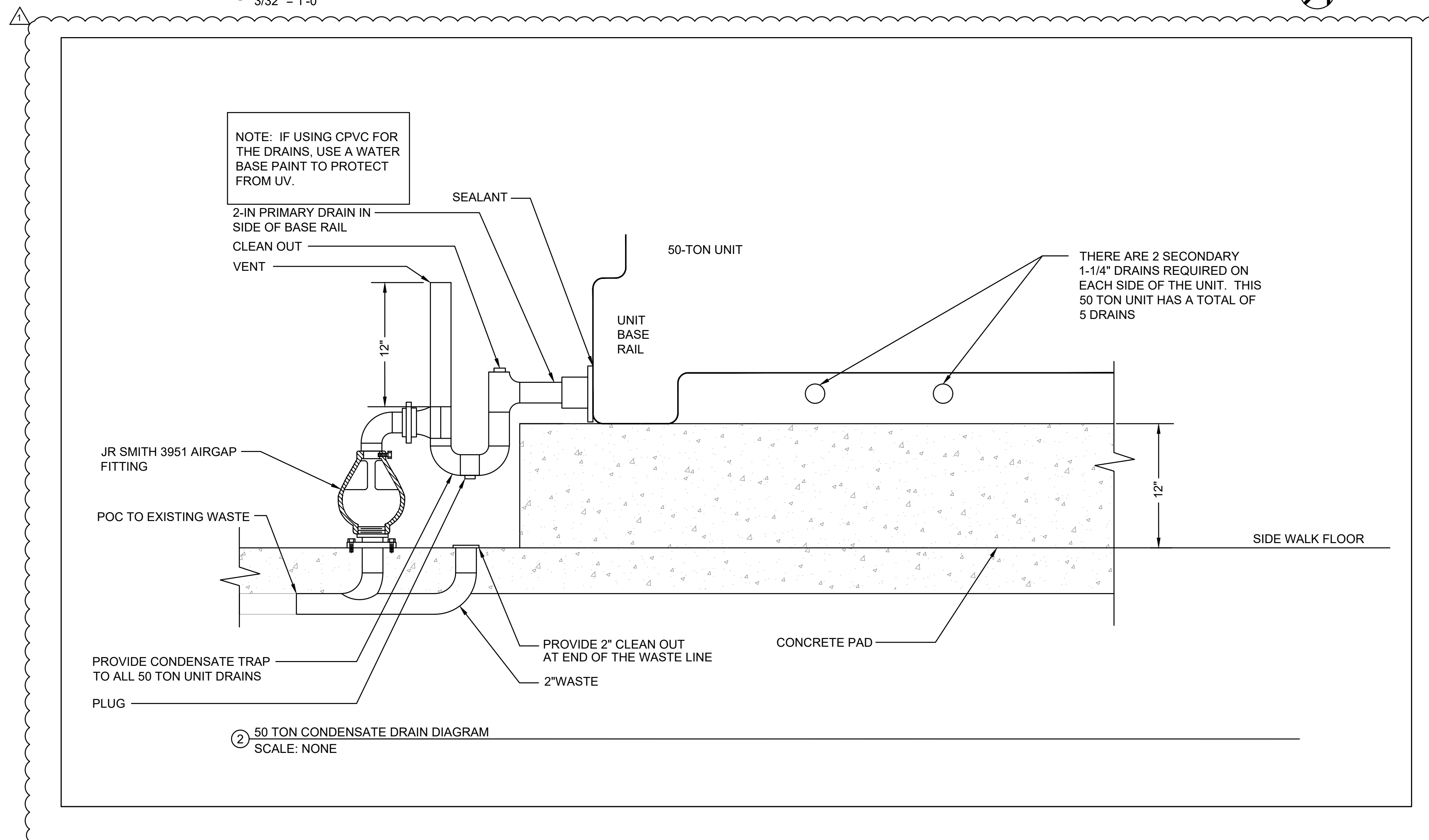
OXNARD UNION HIGH SCHOOL DISTRICT  
 RIO MESA HIGH SCHOOL ALTERATION PROJECT  
 545 CENTRAL AVE  
 OXNARD, CA 93036

CLASSROOM BUILDING 'B' RECONSTRUCTION PLUMBING PLAN

Job No: 2847.0200  
 Date: 10/23/2020  
**PB-201**



1 CLASSROOM BUILDING 'Q' RECONSTRUCTION PLUMBING PLAN  
3/32" = 1'-0"



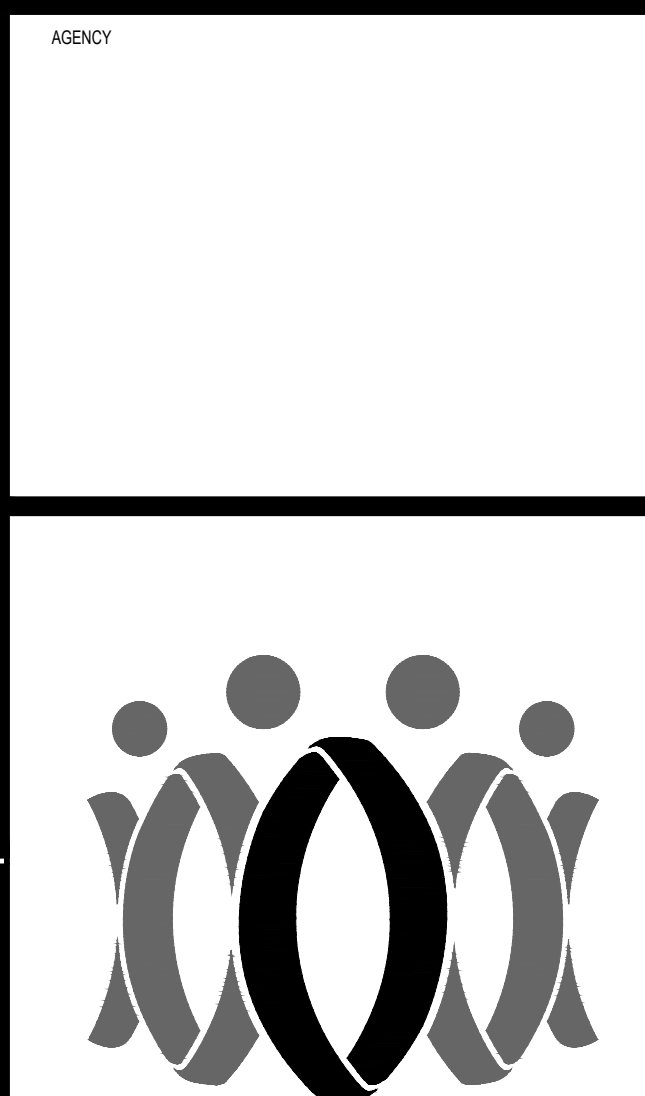
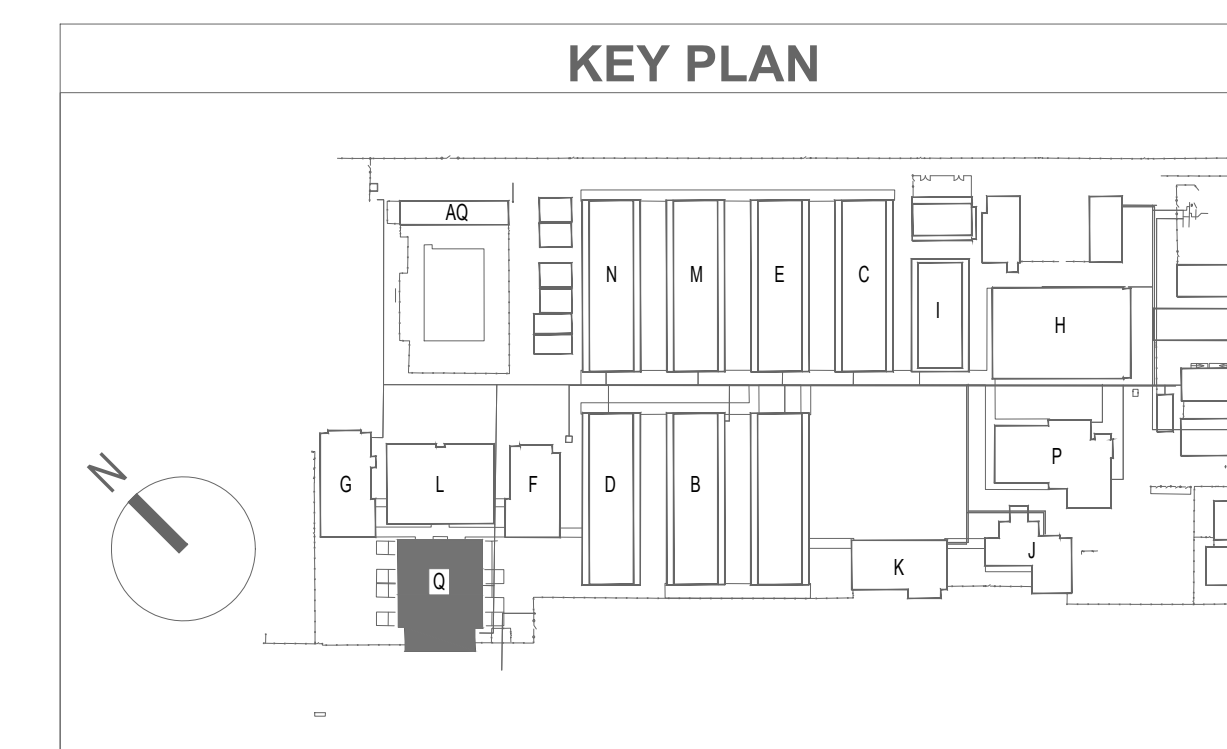
GENERAL NOTES

- THERE SHALL BE NO SERVICE INTERRUPTION.
- PRIOR TO COMMENCING WORK CONTRACTOR SHALL VERIFY EXACT DEPTH AND LOCATION OF EXISTING GAS PIPING LINES AT THE FIELD.
- ALL PIPING ON THIS PLAN SHALL BE CONCEALED INSIDE THE WALL, FLOOR OR CEILING UNLESS NOTED OTHERWISE.
- REPAIR PAVING AFTER INSTALLATION AND INSPECTION OF UTILITIES INSTALLED. PAINT FLOOR TO MATCH PREVIOUS CONDITIONS.
- ALL NEW PIPE PENETRATION AT THE ROOF SHALL BE PROPERLY SEALED BY THE INSTALLING ROOF CONTRACTOR. SEE ARCHITECTURAL DRAWINGS.

CONSTRUCTION KEY NOTES

- PROVIDE GAS TO THE MECHANICAL UNIT LOCATED ON THE ROOF.
- PROVIDE CONDENSATE DRAIN TO THE MECHANICAL UNIT LOCATED ON ROOF.
- PROVIDE 3/4" PUMPED CONDENSATE DRAIN TO THE LAVATORY TAIL PIECE.
- PROVIDE NEW GAS PRESSURE REGULATOR, EARTHQUAKE VALVE AND SHUT-OFF VALVE.
- CONDENSATE PUMP CONNECTED TO FAN COIL UNIT.
- 3/4" CW SUPPLY TO HOSE BIBB LOCATED ON ROOF. CONNECT WITH EXISTING WATER HEADER. CONTRACTOR TO VERIFY EXACT LOCATION ON FIELD.
- DISCHARGE 2" CD TO AIR GAP FITTING. SEE DETAIL 2 ON THIS SHEET.
- MAKE CONNECTION TO ES LINE. CONTRACTOR TO VERIFY EXACT PIPE SIZE LOCATION IN FIELD.
- NEW VENT THROUGH ROOF LOCATION. VERIFY EXACT LOCATION IN THE FIELD.

| LOW PRESSURE GAS SIZING CHART |          |
|-------------------------------|----------|
| 150' TDL @ 8" W.C.            |          |
| PIPE                          | MAX. CFH |
| 1/2"                          | 40       |
| 3/4"                          | 83       |
| 1"                            | 157      |
| 1-1/4"                        | 322      |
| 1-1/2"                        | 482      |
| 2"                            | 928      |
| 3"                            | 2610     |
| 4"                            | 5330     |



FLEWELLING & MOODY  
architecture planning interiors

HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.0300  
E-Mail: fm-pasadenana@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 861.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247

CHARLETTA OFFICE  
10000 WILSON BLVD STE 100  
LOS ANGELES, CA 90024  
TEL: 310.441.1411



Drawn by: \_\_\_\_\_

Checked by: \_\_\_\_\_

Revisions:

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific job. Any and all responsibility for their use in other than a part of any other job is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

GYM BUILDING 'Q'  
RECONSTRUCTION  
PLUMBING PLAN

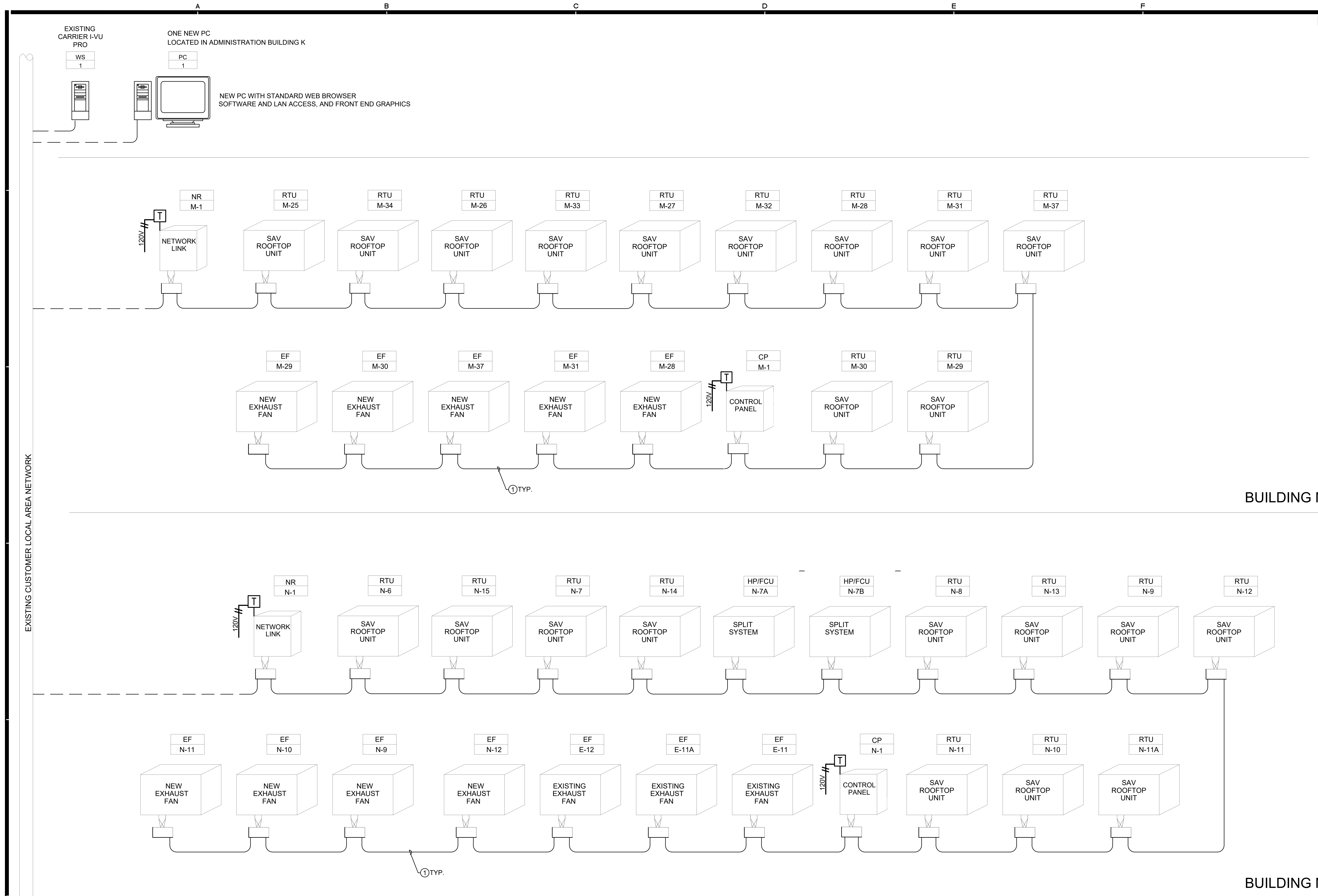
Job No:

2847.0200

Date

10/23/2020

PQ-201



BUILDING M

BUILDING N

**GENERAL NOTE**

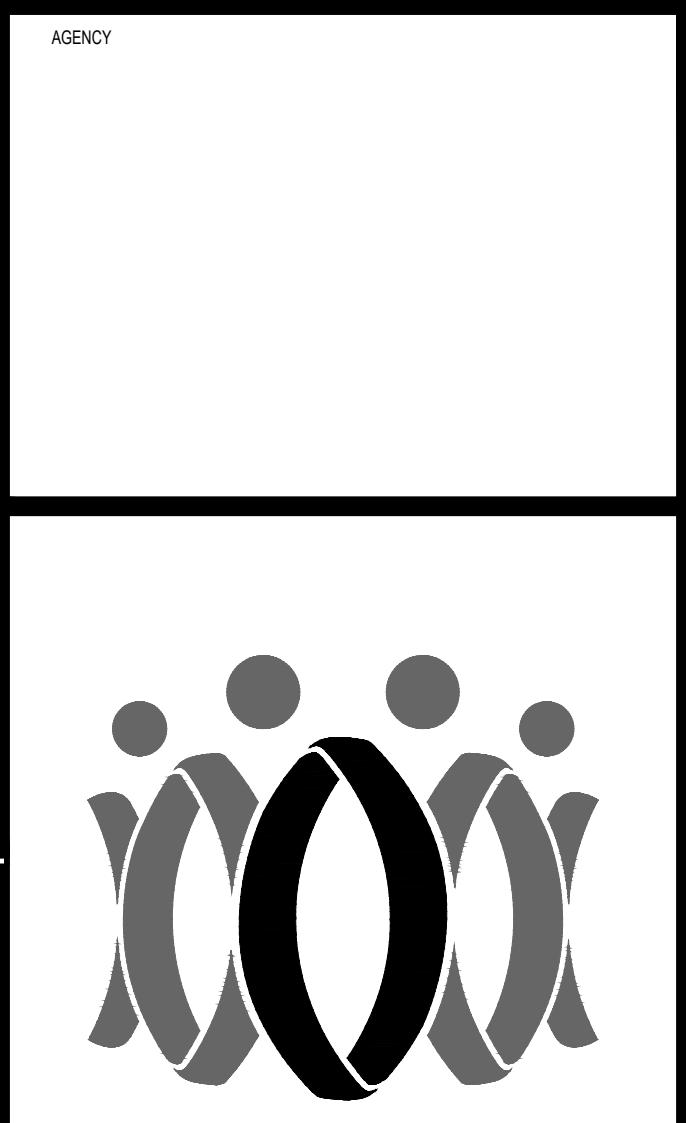
1. ALL CONTROLS CONDUITS AND WIRING SHOWN ON THIS PLAN TO BE PROVIDED BY CONTROL MFG. GC TO COORDINATE WITH CONTROLS CONTRACTOR.

---

**KEY NOTES**

① GC TO PROVIDE 3/4" CONDUIT FOR HVAC CONTROLS WIRING. COORDINATE WITH HVAC CONTROLS CONTRACTOR PRIOR TO BEGINNING OF WORK, WIRING TO BE PROVIDED BY CONTROLS CONTRACTOR.

② LOCATION FOR THE NETWORK ROUTER TO BE FIELD DETERMINED. COORDINATE WITH HVAC CONTROLS CONTRACTOR. PROVIDE 120V, 20AMP JUNCTION BOX IN THE VICINITY OF ROUTER FOR POWER SUPPLY, CIRCUIT J-BOX TO NEAREST PANEL.



**FLEWELLING & MOODY**  
architecture planning interiors

**HEADQUARTERS OFFICE:**  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.0300  
E-Mail: fm-pasadena@flewelling-moody.com

**ANTELOPE VALLEY OFFICE:**  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT

---

CONSULTANT

**ba** BUDLONG & ASSOCIATES, INC.  
MEP CONSULTING ENGINEERS  
Job No. 19-247



Drawn by: \_\_\_\_\_

Checked by: \_\_\_\_\_

Revisions:

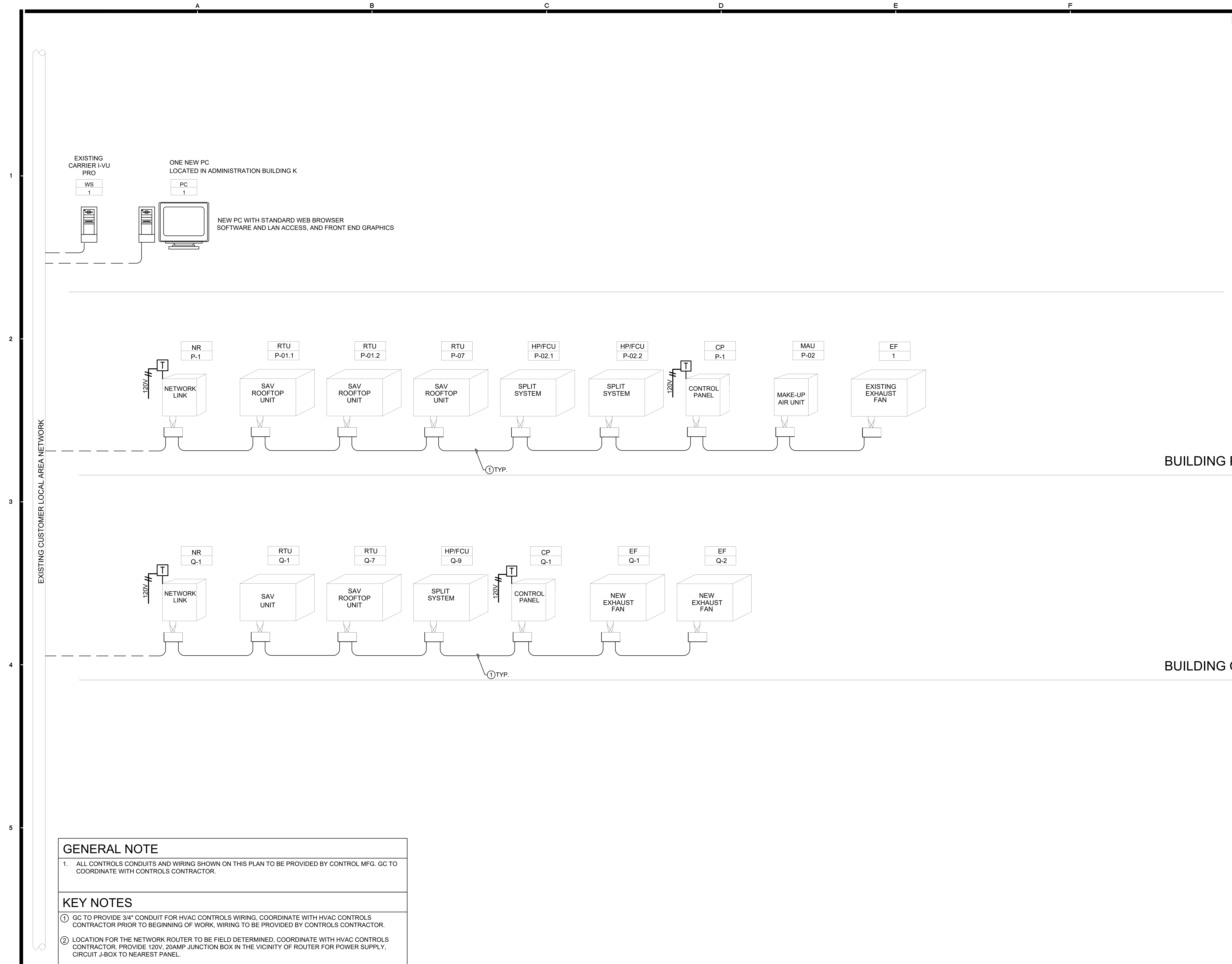
| No. | Date | Description |
|-----|------|-------------|
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared by a specific job. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

CONDUIT PROVISIONS FOR HVAC CONTROLS

Job No. 2847.0200  
Date 10/23/2020  
**E-107F**



**GENERAL NOTE**

1. ALL CONTROLS CONDUITS AND WIRING SHOWN ON THIS PLAN TO BE PROVIDED BY CONTROL MFG. GC TO COORDINATE WITH CONTROLS CONTRACTOR.

---

**KEY NOTES**

① GC TO PROVIDE 3/4" CONDUIT FOR HVAC CONTROLS WIRING. COORDINATE WITH HVAC CONTROLS CONTRACTOR PRIOR TO BEGINNING OF WORK, WIRING TO BE PROVIDED BY CONTROLS CONTRACTOR.

② LOCATION FOR THE NETWORK ROUTER TO BE FIELD DETERMINED. COORDINATE WITH HVAC CONTROLS CONTRACTOR. PROVIDE 120V, 20AMP JUNCTION BOX IN THE VICINITY OF ROUTER FOR POWER SUPPLY, CIRCUIT J-BOX TO NEAREST PANEL.

AGENCY



**FLEWELLING & MOODY**  
architecture planning interiors


HEADQUARTERS OFFICE:  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P 323.543.0300  
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

ARCHITECT


CONSULTANT



**BUDLONG & ASSOCIATES, INC.**  
MEP CONSULTING ENGINEERS  
Job No. 19-247

✓ SANARLO OFFICE  
10000 SANARLO BLVD, SUITE 100  
SANARLO, CA 95070  
TEL: 925.885.1400

✓ GLENDALE OFFICE  
10000 GLENDALE BLVD, SUITE 100  
GLENDALE, CA 91201  
TEL: 626.917.1100



Drawn by \_\_\_\_\_

Checked by \_\_\_\_\_

Revisions

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared by a specific job. Any and all responsibility for their use or misuse as a part of any other job is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT

RIO MESA HIGH SCHOOL ALTERATION PROJECT

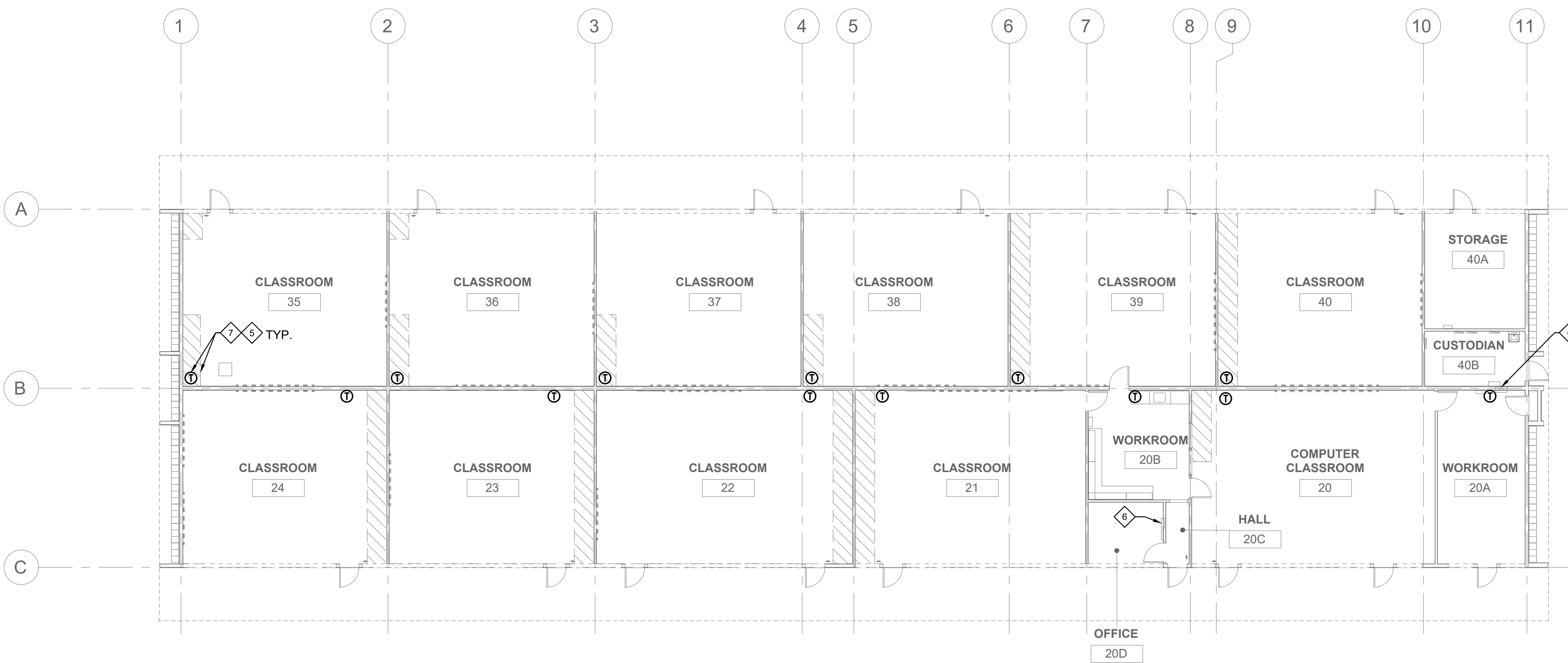
545 CENTRAL AVE  
OXNARD, CA 93036

CONDUIT PROVISIONS FOR HVAC CONTROLS

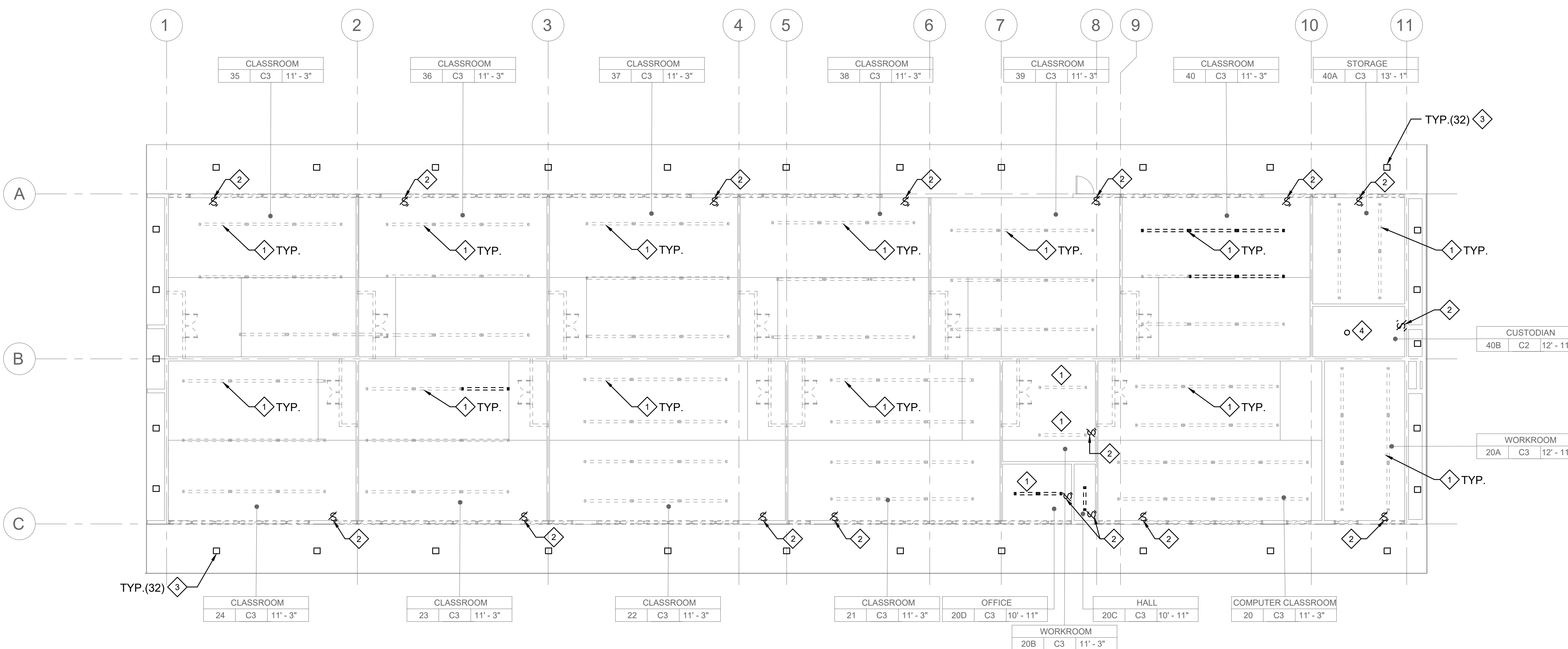
Job No. 2847.0200

Date 10/23/2020

**E-107G**



1 CLASSROOM BUILDING 'B' DEMOLITION POWER PLAN  
3/32" = 1'-0"



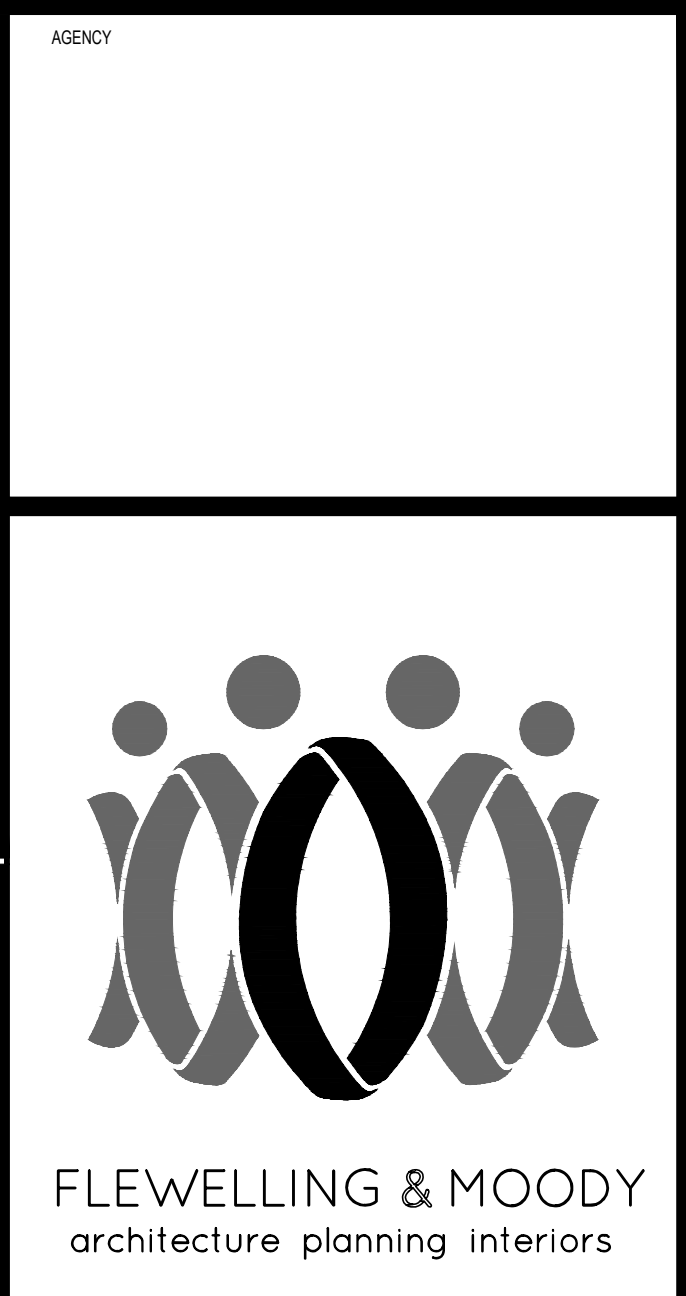
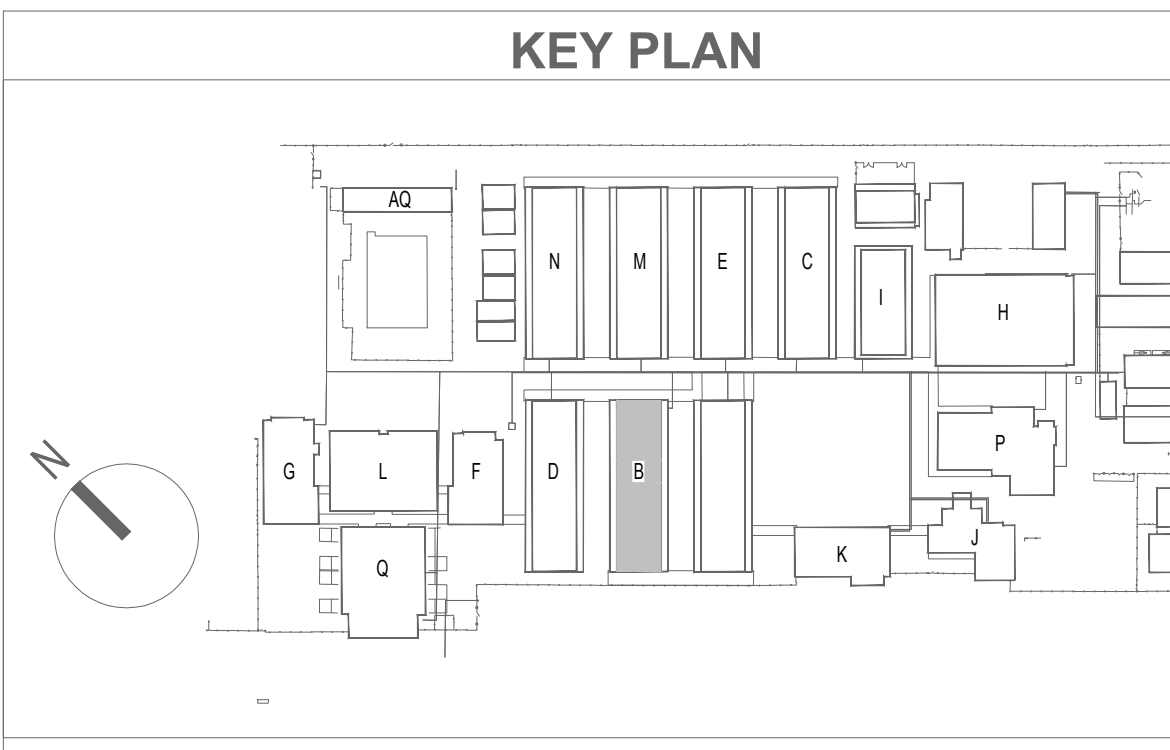
2 CLASSROOM BUILDING 'B' DEMOLITION LIGHTING PLAN  
3/32" = 1'-0"

### DEMOLITION GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION OF ANY WORK.
- EACH UNIT SHOWN FOR DEMOLITION ON MECHANICAL PLANS IS TO BE COMPLETELY DISCONNECTED FOR DEMOLITION/REMOVAL. EXISTING DISCONNECTS AND CIRCUIT BREAKERS ARE TO BE SWITCHED OFF.
- AS A RESULT OF ANY DEMOLITION, ALLOW NO 'ORPHANED' OR ISOLATED DEVICES OUTSIDE OF WORK SCOPE AREA TO REMAIN DISCONNECTED. PROVIDE ANY NECESSARY NEW TERMINATIONS, CONDUCTORS, CONNECTIONS, CONDUIT, ETC.
- ANY CONDUITS NOT SUITABLE FOR REUSE SHALL NOT BE ABANDONED IN PLACE. REMOVE BACK TO FEEDING PANEL OR NEAREST PRECEDING JUNCTION BOX.
- PRIOR TO COMMENCING ANY WORK THE CONTRACTOR SHALL CONSULT WITH OWNER REPRESENTATIVE ELECTRICIAN AND CONDUCT THE NECESSARY PROTOCOLS FOR THE LOCK OUT/TAG OUT PROCEDURE AND DISABLING OF BEAM DETECTORS.

### DEMOLITION KEY NOTES

- EXISTING PENDANT MOUNT LINEAR LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
- EXISTING LIGHT SWITCH TO BE REMOVED. PROTECT AND IDENTIFY CONFIGURATION AND MAINTAIN SAME CONFIGURATION DURING CONSTRUCTION. NEW SWITCHES TO BE COMPATIBLE WITH WIRELESS OCCUPANCY SENSORS AS SHOWN ON CONSTRUCTION PLAN.
- EXISTING EXTERIOR LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
- EXISTING CIRCULAR SURFACE MOUNT LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
- EXISTING THERMOSTATS ASSOCIATED WITH THE FURNACE TO BE REMOVED, REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING CONTROL CONDUCTORS. CUT, CAP AND ABANDON CONDUIT IN PLACE. LABEL CONDUIT AND ANY ASSOCIATED BREAKER AS "SPARE". FIELD VERIFY THE LOCATION OF THERMOSTAT. FIELD VERIFY THE EXACT LOCATION OF THERMOSTAT AND ASSOCIATED ACCESSORIES.
- EXISTING WALL/UNIT HEATERS TO BE REMOVED, REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING EXISTING DISCONNECTS, CONDUCTORS. CUT, CAP AND ABANDON CONDUIT IN PLACE. LABEL CONDUIT AND THE ASSOCIATED BREAKER AS "SPARE". FIELD VERIFY THE EXACT LOCATION OF FURNACE AND ASSOCIATED ACCESSORIES.
- EXISTING FURNACE TO BE REMOVED. REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING EXISTING DISCONNECTS, CONDUCTORS. CUT, CAP AND ABANDON CONDUIT IN PLACE. LABEL CONDUIT AND THE ASSOCIATED BREAKER AS "SPARE". FIELD VERIFY THE EXACT LOCATION OF FURNACE AND ASSOCIATED ACCESSORIES.



**HEADQUARTERS OFFICE:**  
815 Colorado Blvd, Suite 200  
Los Angeles, CA 90041  
P: 323.543.5300  
E-Mail: fm-pasadena@flewelling-moody.com

**ANTELOPE VALLEY OFFICE:**  
1035 West Lancaster Boulevard  
Lancaster, California 93534  
P: 661.949.0771  
E-Mail: fm-lancaster@flewelling-moody.com

An Employee Owned Corporation

**budlong & associates, inc.**  
MEP CONSULTING ENGINEERS  
Job No. 19-247

**CANARLUO OFFICE**  
10000 WILSON BLVD #100  
LOS ANGELES, CA 90024  
TEL: 310.408.1401

**GLENDALE OFFICE**  
10000 WILSON BLVD #100  
LOS ANGELES, CA 90024  
TEL: 310.408.1401



Drawn by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Revisions:

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared by a specific job. Any and all responsibility for their use or misuse is a part of any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT  
RIO MESA HIGH SCHOOL ALTERATION PROJECT  
545 CENTRAL AVE  
OXNARD, CA 93036

**BUILDING 'B' DEMOLITION POWER AND LIGHTING PLAN**

Job No: 2847 0200  
Date: 10/23/2020

**EB-201D**