

ADDENDUM NO. 1

To the Contract Documents for:

Menlo Park City School District

Oak Knoll Elementary School

Lighting & Ceiling Upgrades
Bid #004-2019-01

April 19, 2019

This addendum shall supersede all previously issued specifications, addenda and drawings. All other conditions remain unchanged. The following clarifications, changes, modifications, corrections and/or additions as set forth herein shall apply to the above documents and shall be made a part thereof and shall be subject to all the requirements thereof as though originally specified and/or shown.

This addendum consists of **1** page, plus attachments.

Attachments:

Bid Announcement: Notice Inviting Bids (2 pages).

Project Manual: *(Same notice as above)*.

Drawing Sheets: Bid Documents (12 pages).

CHANGES TO THE BID ANNOUNCEMENT:

Item No 0.1

Reference: Notice Inviting Bids

Description: **REPLACE** the previous Notice Inviting Bids with the *revised* Notice Inviting Bids (attached).

CHANGES TO THE PROJECT MANUAL:

Item No 1.1

Reference: Notice Inviting Bids

Description: **REPLACE** the previous Notice Inviting Bids with the *revised* Notice Inviting Bids (attached).

CHANGES TO THE DRAWINGS:

Item No 2.1

Reference: Entire plan set.

Description: **REPLACE** previous plan set dated 4/11/19 with the attached set dated 4/15/19 (12 pages total, attached).

END OF ADDENDUM #1

NOTICE INVITING BIDS

OAK KNOLL ELEMENTARY SCHOOL
LIGHTING & CEILING UPGRADES

Notice is hereby given that the Governing Board of the **Menlo Park City School District** will receive up to, **but not later than, April 30, 2019, 3:00 p.m. local time**, and will then publicly open and read aloud at the Menlo Park City School District, located at **181 Encinal Avenue, Atherton, CA 94027** for the following project:

Bid # 004-2019-01
OAK KNOLL ELEMENTARY SCHOOL
LIGHTING & CEILING UPGRADES

Removal of existing classroom ceiling tiles and classroom lighting in classrooms. Installation of new LED lighting fixtures, new modified ceilings, and new tack boards. Minor patching and painting may be required as well as adjusting to existing HVAC registers, fire alarm devices, and other items affected by the work. The work is scheduled during the summer break.

Project duration is **54 calendar days** with a start date of **June 17, 2019** and a completion date of **August 9, 2019**.

Contractor shall possess at the time of its bid, the following classification(s) of Contractor's California State license: **B – General Building Contractor**

Such bids shall be received at the Menlo Park City School District office located **181 Encinal Avenue, Atherton, CA 94027**.

Plans and specifications will be available on the District website:
<https://district.mpcsd.org/Page/1075>

A **mandatory** bidders' conference will be held on **April 18, 2019, at 3:30 p.m.** (or by appointment) at **Oak Knoll Elementary School, 1895 Oak Knoll Lane, Menlo Park, CA 94025**, for the purpose of acquainting all prospective contractors with the bid documents and the work site.

Each bid must conform and be fully responsive to all documents comprising the Contract Documents.

Each bid shall be made on the Bid Form prepared by the District in the Contract Documents.

Contractor and its subcontractors shall pay all workers on the Project not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for

the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code. Prevailing wage rates are available from the District or on the Internet at: <<http://www.dir.ca.gov>>. Contractor and its subcontractors shall comply with the registration and qualification requirements pursuant to sections 1725.5 and 1771.1 of the California Labor Code.

The substitution of appropriate securities in lieu of retention amounts from progress payments in accordance with Public Contract Code Section 22300 is permitted.

A bid bond by an admitted surety insurer on the form provided by the District, cash, or a cashier's check or a certified check, drawn to the order of the District, in the amount of ten percent (10%) of the total bid price, shall accompany the Bid Form, as a guarantee that the Contractor will, within seven (7) calendar days after the Notice to Proceed or other direction, enter into a contract with the District for the performance of the Services as stipulated in the bid. In addition, a one hundred percent (100%) Performance Bond and a one hundred percent (100%) Payment Bond will be required of the successful bidder.

Each bid must include the name and location of the place of business of each subcontractor who shall perform/work of this Contract in excess of one-half of one percent (1/2 of 1%) of the bid price.

No bid may be withdrawn for a period of sixty (60) days after the date set for the opening for bids except as provided pursuant to Public Contract Code Sections 5100 *et seq.*

The District reserves the right to reject any and all bids and to waive any informalities or irregularities in the bidding.

By: _____
Chief Business Officer

Menlo Park City School District

DATED: March 25, 2019

Menlo Park City School District

181 Encinal Avenue
Atherton, CA 94027



Oak Knoll Elementary School Lighting Replacement Project No. 1

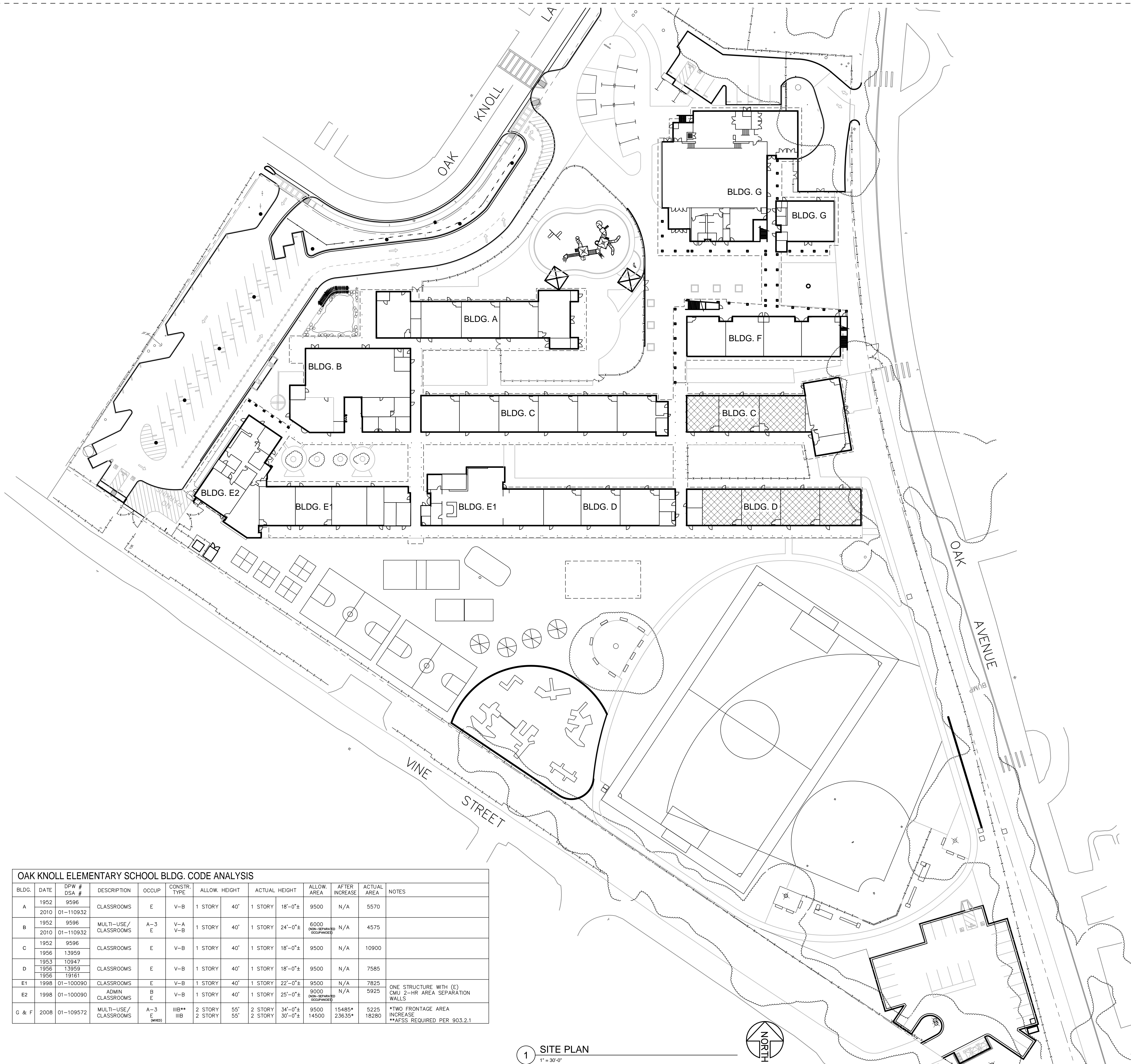
1895 Oak Knoll Lane
Menlo Park, CA 94025

BID DOCUMENTS

04/15/2019

HED

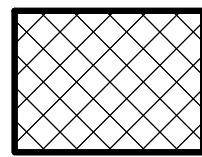




OAK KNOLL ELEMENTARY SCHOOL BLDG. CODE ANALYSIS												
BLDG.	DATE	DPW # DSA #	DESCRIPTION	OCCUP	CONSTR. TYPE	ALLOW. HEIGHT	ACTUAL HEIGHT	ALLOW. AREA	AFTER INCREASE	ACTUAL AREA	NOTES	
A	1952	9596	CLASSROOMS	E	V-B	1 STORY	40'	1 STORY	18'-0"±	9500	N/A	5570
	2010	01-110932										
B	1952	9596	MULTI-USE/ CLASSROOMS	A-3 E	V-A V-B	1 STORY	40'	1 STORY	24'-0"±	6000 (NON-SPANNED OCCUPANCIES)	N/A	4575
	2010	01-110932										
C	1952	9596	CLASSROOMS	E	V-B	1 STORY	40'	1 STORY	18'-0"±	9500	N/A	10900
	1956	13959										
D	1953	10947	CLASSROOMS	E	V-B	1 STORY	40'	1 STORY	18'-0"±	9500	N/A	7585
	1956	13959										
	1956	19161										
	1956	19161										
E1	1998	01-100090	CLASSROOMS	E	V-B	1 STORY	40'	1 STORY	22'-0"±	9500	N/A	7825
E2	1998	01-100090	ADMIN CLASSROOMS	B E	V-B	1 STORY	40'	1 STORY	25'-0"±	9000 (NON-SPANNED OCCUPANCIES)	N/A	5925
G & F	2008	01-109572	MULTI-USE/ CLASSROOMS	A-3 E (MIXED)	IIIB**	2 STORY	55'	2 STORY	34'-0"±	9500	15485*	5225
					IIIB	2 STORY	55'	2 STORY	30'-0"±	14500	23635*	18280

1 SITE PLAN
1" = 30'-0"

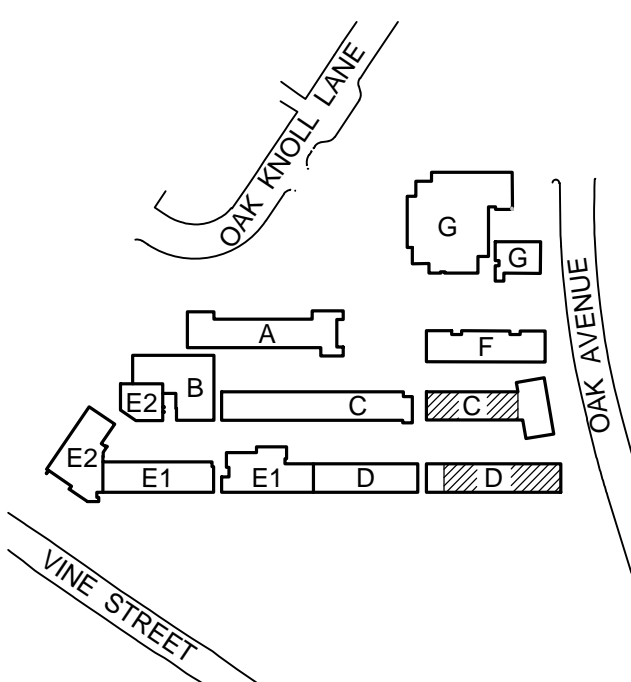
LEGEND



EXISTING BUILDING IN SCOPE WORK

GENERAL NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



OAK KNOLL E.S. KEYPLAN



Oak Knoll E.S.
Lighting Project

Project #1
Buildings C & D

1895 Oak Knoll Lane,
Mentio Park, CA 94027

Date Issued For

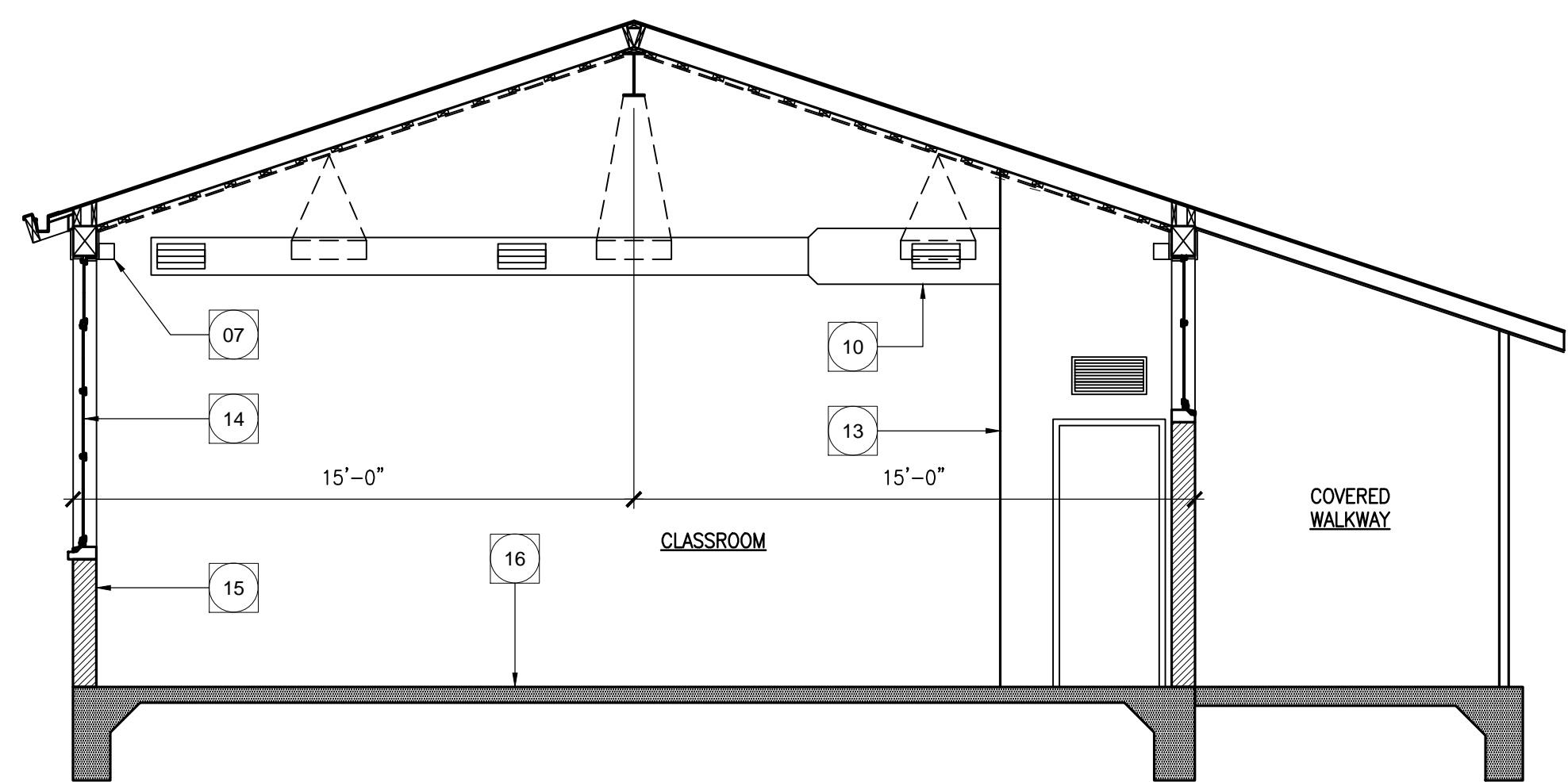
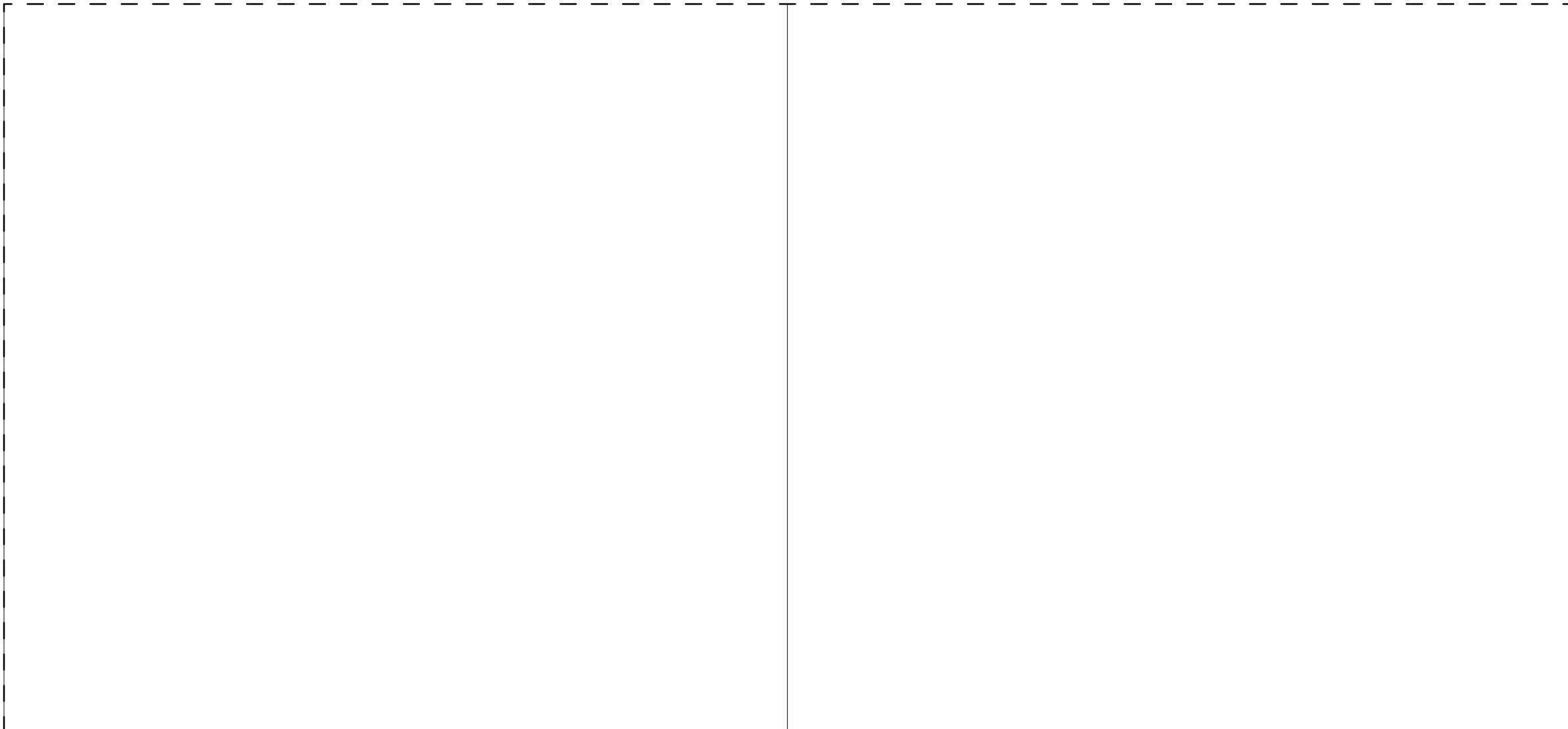
04/15/19 BID SET



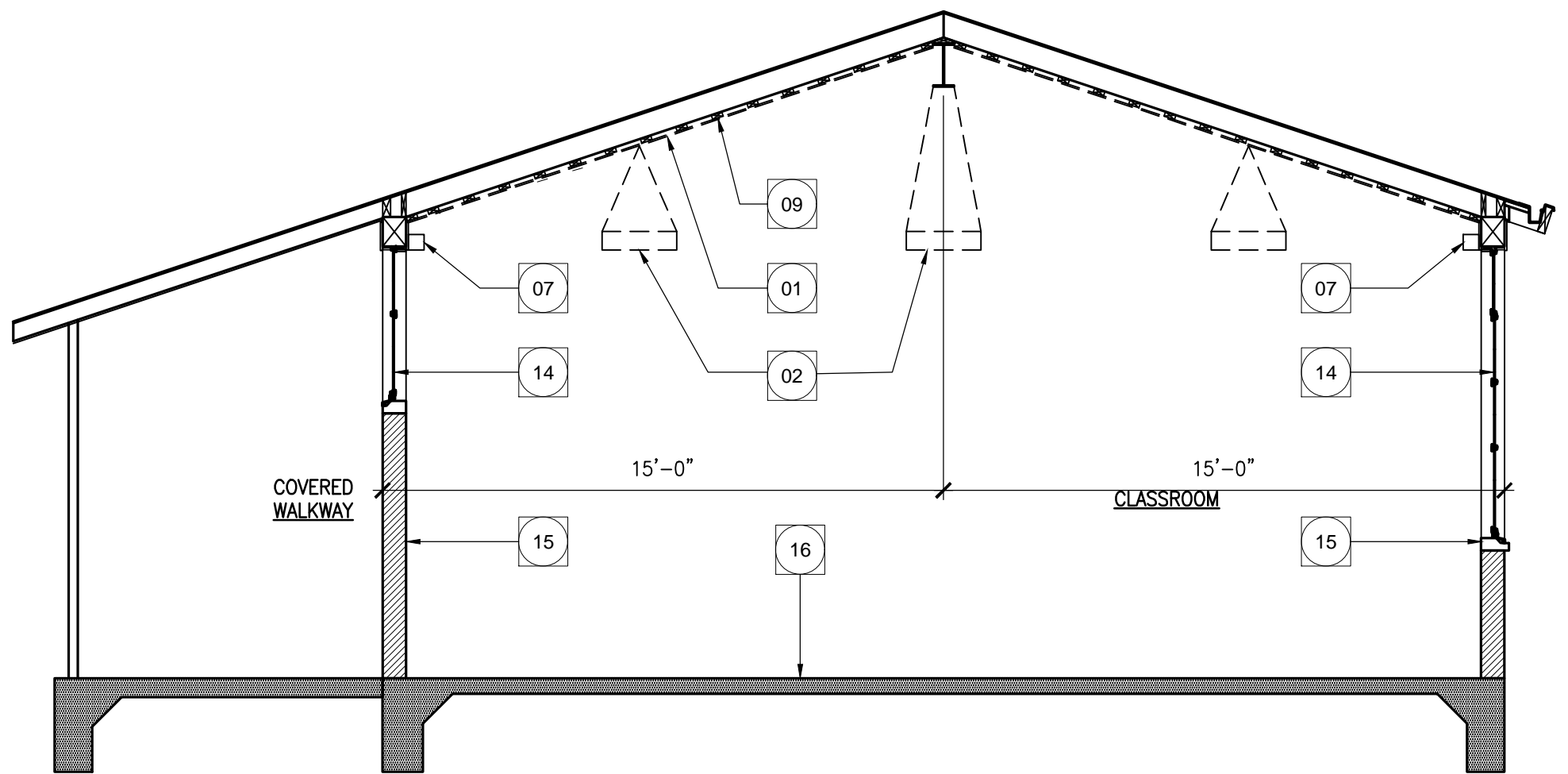
417 Montgomery Street
Suite 400
San Francisco, CA
94104 USA
(415) 981-2345
WWW.HED.DESIGN

SITE PLAN &
CODE ANALYSIS

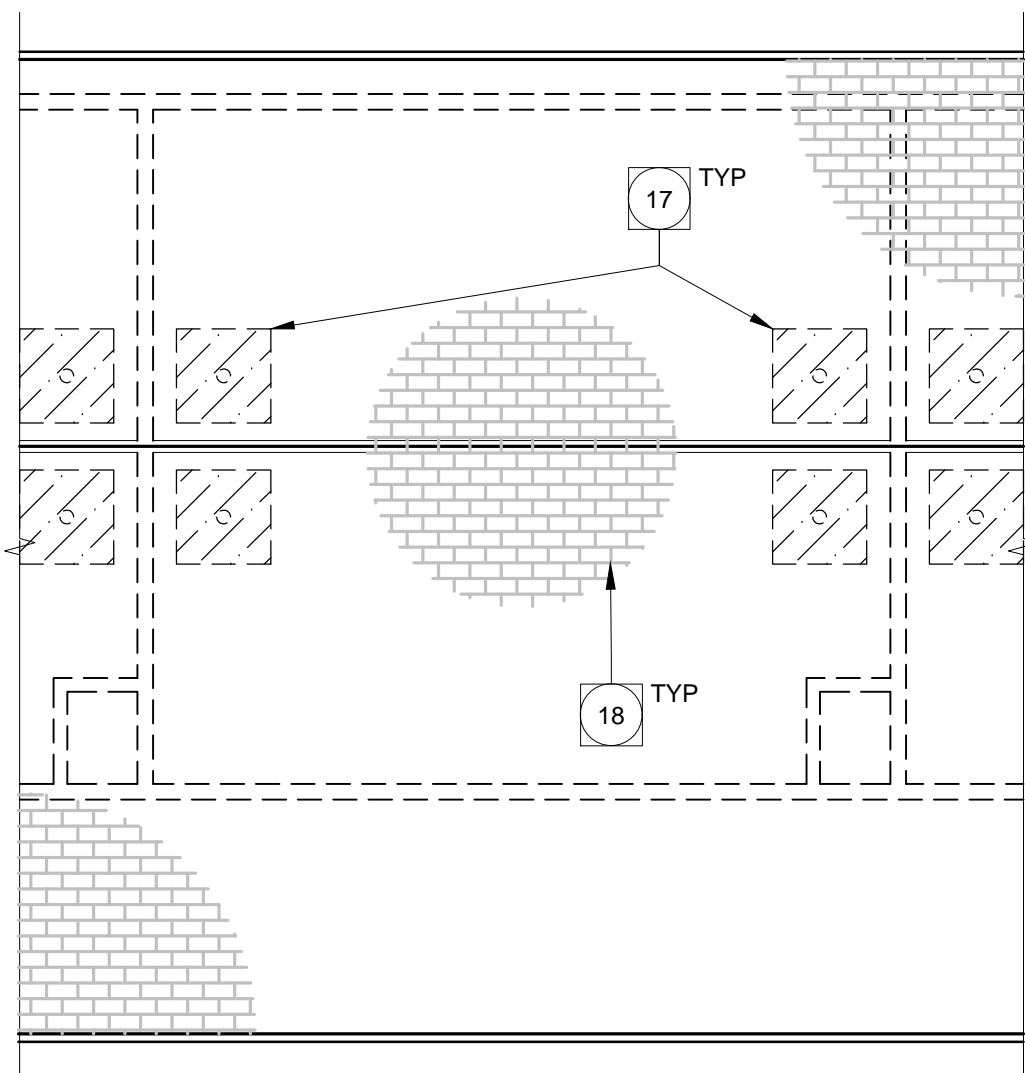
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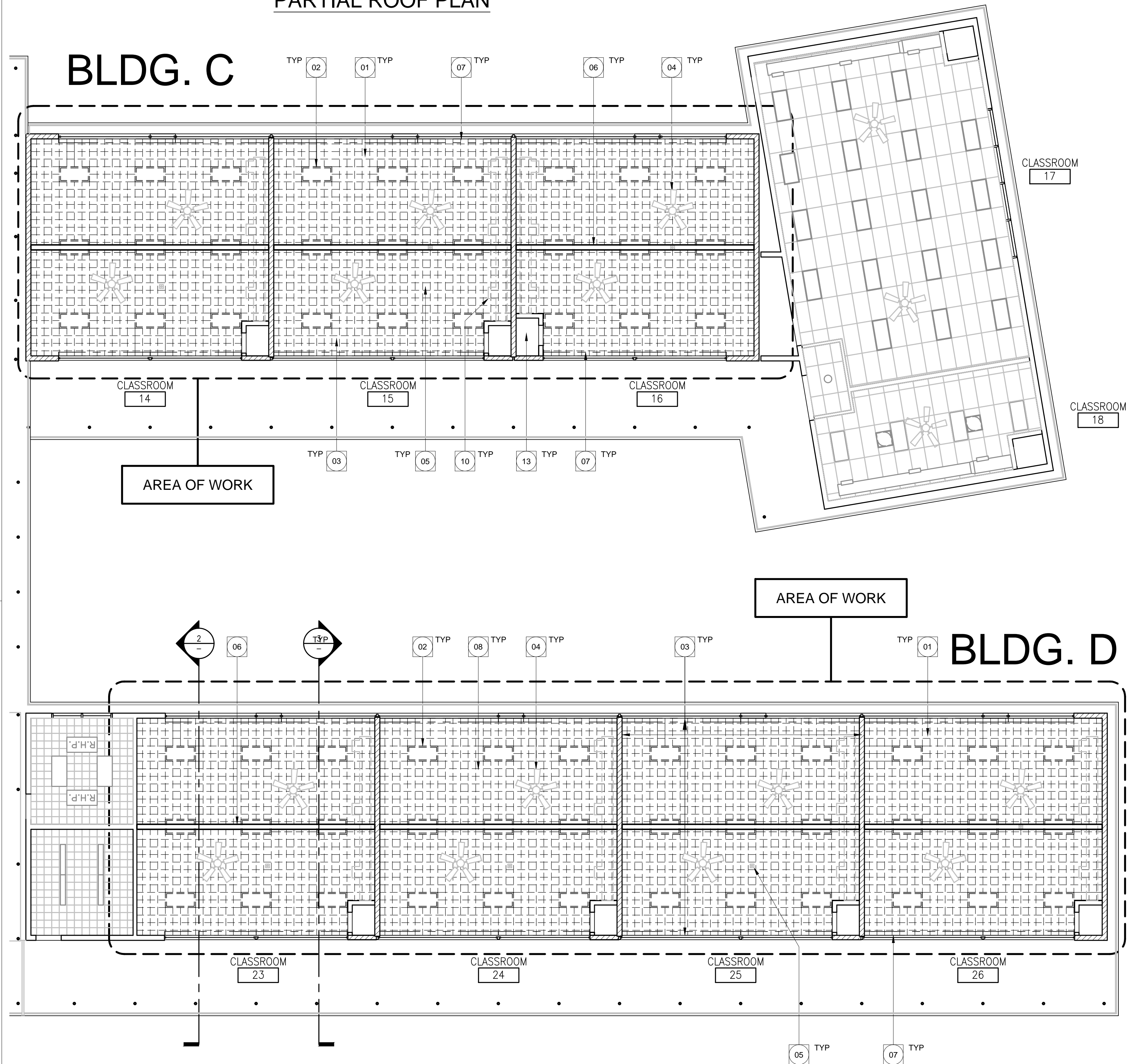
3 BUILDING C & D - DEMO SECTION
1/4" = 1'-0"



2 BUILDING C & D - DEMO SECTION
1/4" = 1'-0"



PARTIAL ROOF PLAN

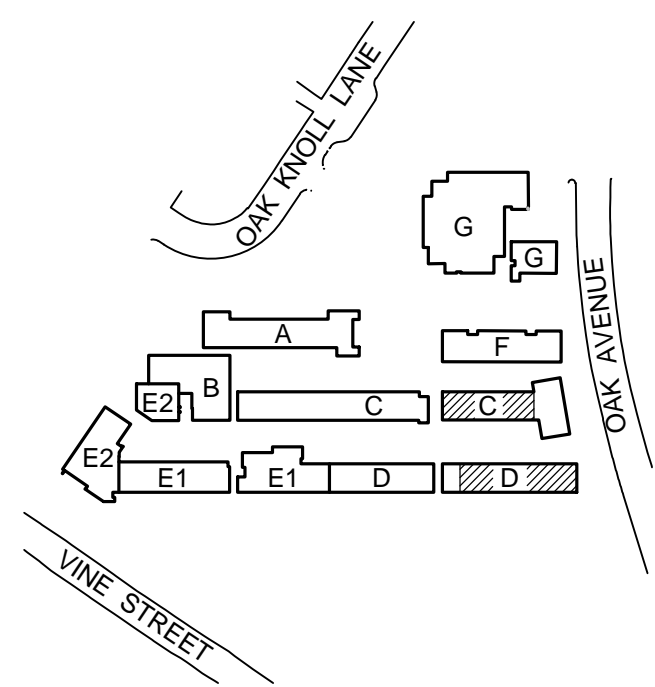


1 BUILDING C & D - DEMO CEILING PLAN
1/8" = 1'-0"

- LEGEND**
- (E) CMU WALL
 - (E) WINDOW
 - (E) CEILING FAN
 - (E) MOTION SENSOR
 - (E) GLUE-ON CEILING TILE TO BE REMOVED
 - (E) LIGHT FIXTURE TO BE REMOVED

- GENERA NOTES**
- THESE NOTES APPLY TO THE ENTIRE AREA OF DEMOLITION. THE PLANS ARE DIAGRAMMATIC INDICATION OF THE GENERAL AREAS IN WHICH DEMOLITION MUST TAKE PLACE TO INSTALL NEW IMPROVEMENTS. THE CONTRACTOR WILL PROVIDE COMPLETE DEMOLITION AND REMOVAL, WHETHER SPECIFICALLY SHOWN OR NOTED ON THE SPECIFICATIONS. THE CONTRACTOR WILL FIELD VERIFY ALL QUANTITIES AND LOCATIONS OF IMPROVEMENTS IN THIS AREA.
 - IN ADDITION TO THOSE AREAS NOTED FOR GENERAL DEMOLITION, THE CONTRACTOR MAY CONDUCT ADDITIONAL DEMOLITION AND REPLACEMENT OF MATERIALS TO FACILITATE CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL REPLACEMENT SHALL CONFORM TO THE PLANS AND SPECIFICATIONS FOR NEW WORK.
 - FOR EXTENT OF DEMOLITION, CONTRACTOR TO VERIFY FINISHED ELEVATIONS WHERE NEW WORK MEETS EXISTING SURFACES PROVIDE FLUSH TRANSITION U.N.O. CONTRACTOR SHALL SURVEY THE AREA AND INCLUDE ALL REQUIRED IN BID.
 - OWNER SHALL HAVE FIRST RIGHT OF RESUFAL FOR ALL DEMOLISHED /REMOVED ITEMS.
 - AFTER DEMOLITION OF EXISTING ITEMS IS COMPLETE, CLEAN AND PREP SITE AS REQUIRED TO RECEIVE NEW WORK.
 - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - REMOVE AND REINSTALL EXISTING FA DEVICES AS NEEDED DUE TO NEW WORK.
 - PATCH, REPAIR AND PAINT ANY AREAS AFFECTED BY NEW WORK.

- DEMO KEYNOTES**
- 01 REMOVE (E) GLUED-ON CEILING TILE AND ALL RELATED ACCESSORIES.
 - 02 REMOVE SUSPENDED (E) LIGHT FIXTURES AND ALL RELATED ACCESSORIES.
 - 03 REMOVE ALL (E) WALL TILE FROM THIS ROOM.
 - 04 TEMPORARILY REMOVE (E) FAN AND RE-INSTALL AFTER INSTALLATION OF NEW CEILING.
 - 05 TEMPORARILY REMOVE (E) CEILING MOUNTED PROJECTOR, PROJECTOR CEILING MOUNT BRACKET.
 - 06 (E) STEEL WIDE FLANGE BEAM, PROTECT.
 - 07 TEMPORARILY REMOVE (E) WINDOW SHADES AND RE-INSTALL AFTER INSTALLATION OF NEW CEILING.
 - 08 REMOVE (E) CEILING SURFACE MOUNTED CONDUITS.
 - 09 (E) WD FURRING TO REMAIN, PROTECT.
 - 10 (E) MECH. DUCT TO REMAIN, PROTECT.
 - 11 REMOVE (E) INSULATION AND ALL RELATED ACCESSORIES.
 - 12 (E) ROOF JOIST, PROTECT.
 - 13 (E) MECH. CLOSET, PROTECT.
 - 14 (E) WINDOW, PROTECT.
 - 15 (E) CMU WALL, PROTECT.
 - 16 (E) CONC. SLAB, CARPET/MARMOLEUM, PROTECT.
 - 17 REMOVE PORTION OF (E) ROOFING AND CUT 7" DIA. HOLE FOR THE PLACEMENT OF NEW VENT (4 PER CLASSROOM).
 - 18 (E) ASPHALT ROOFING SHINGLES TO REMAIN, PROTECT.



OAK KNOLL E.S. KEYPLAN



Oak Knoll E.S.
Lighting Project

Project #1
Buildings C & D

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Date Issued For

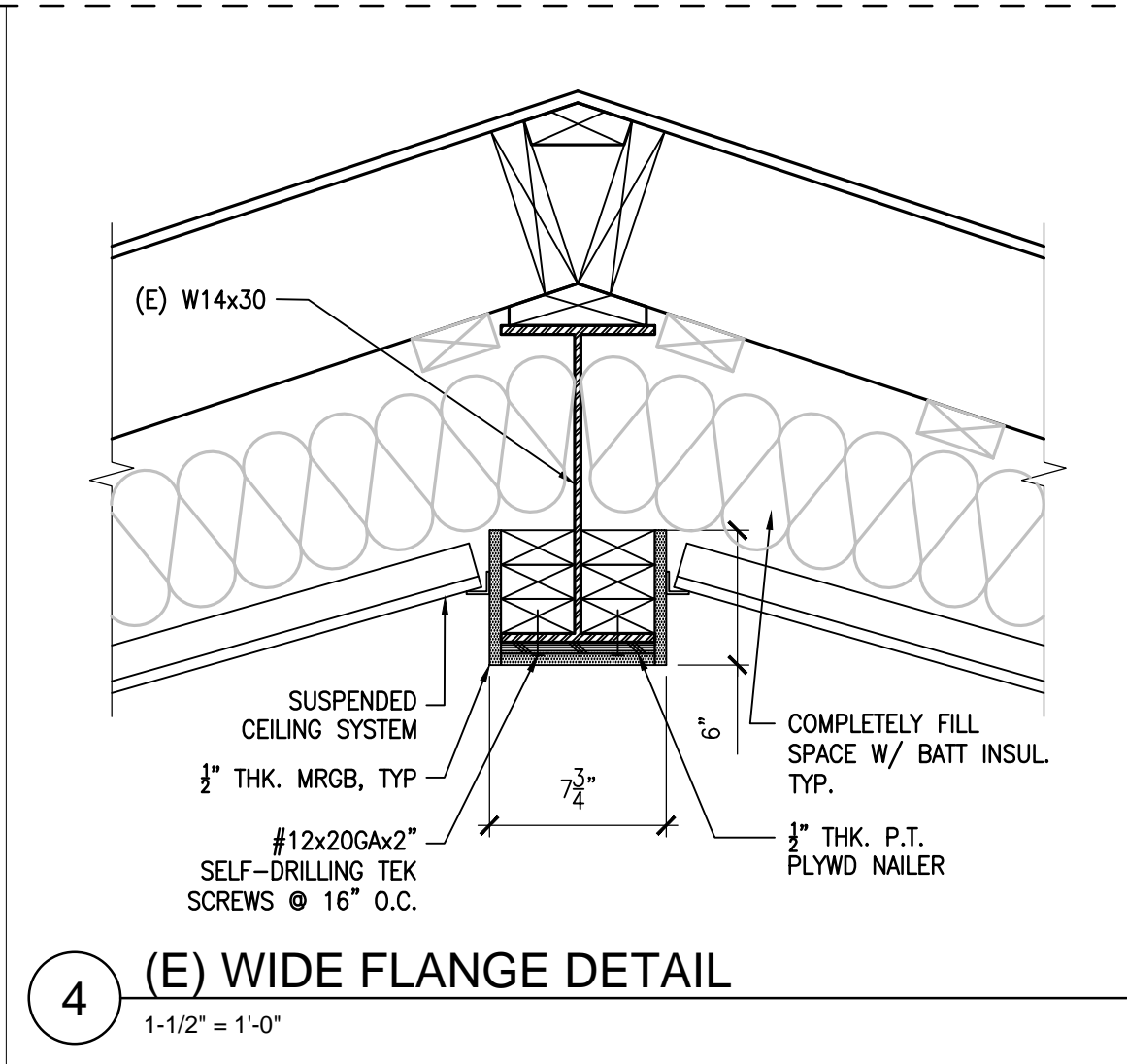
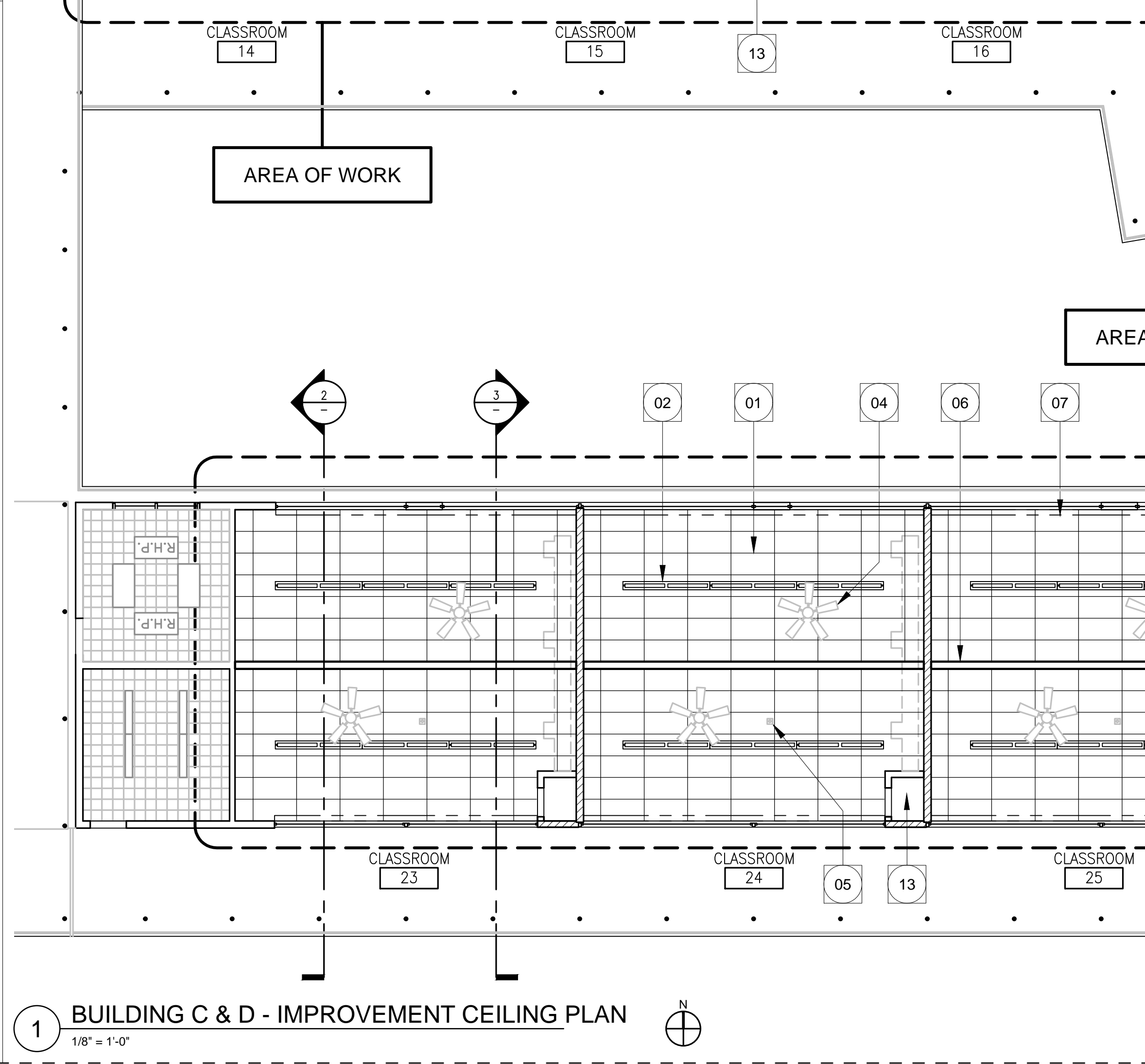
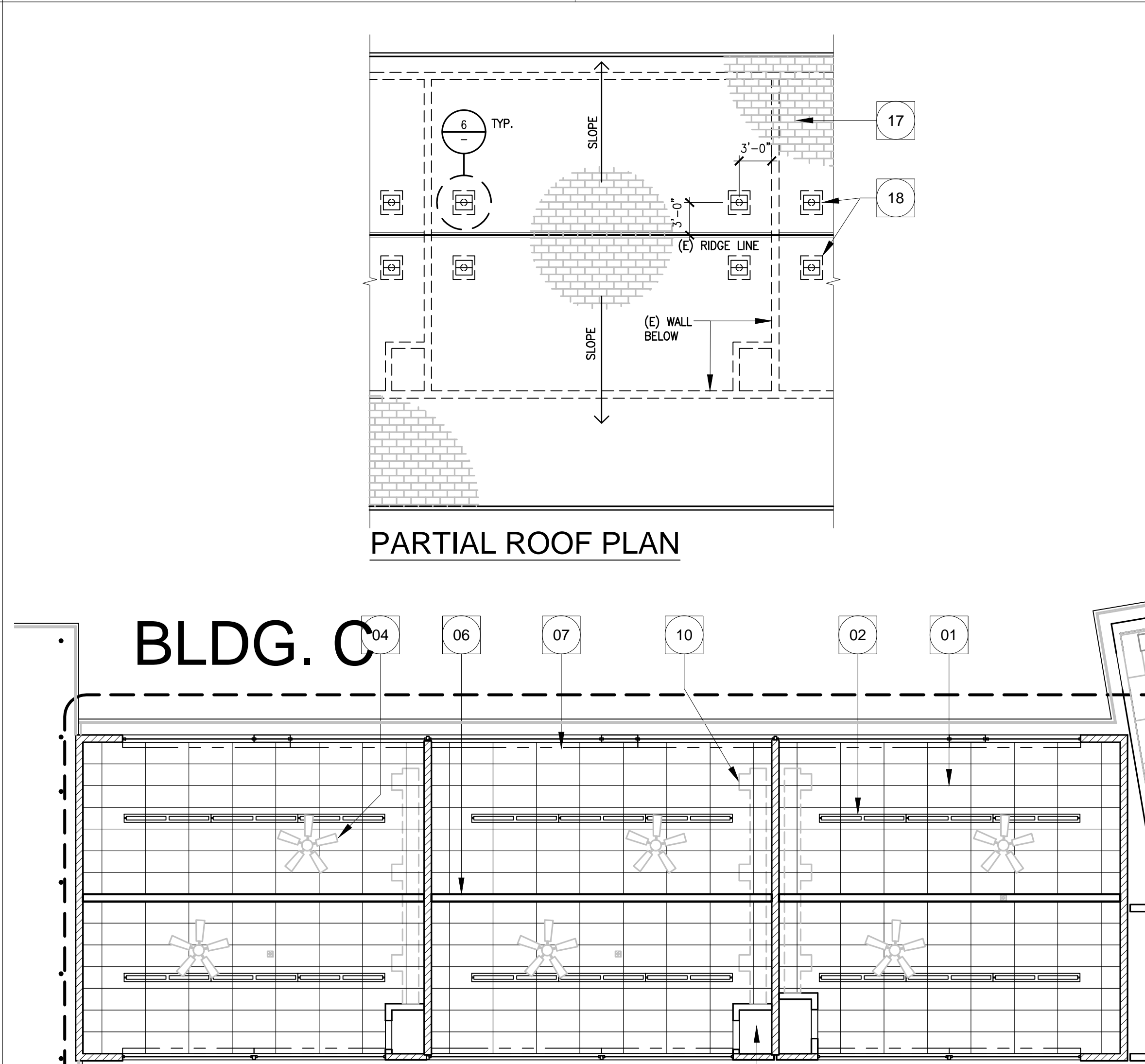
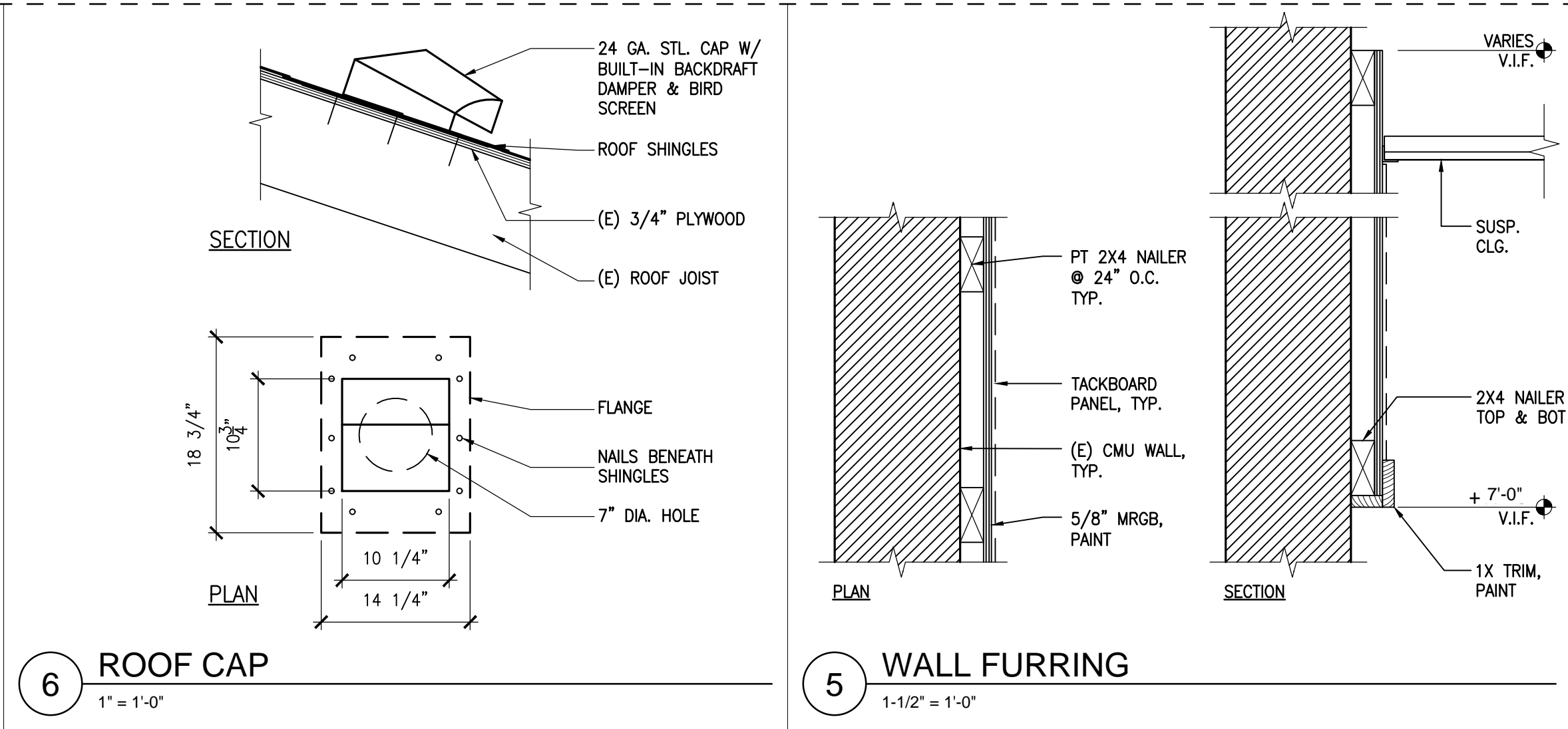
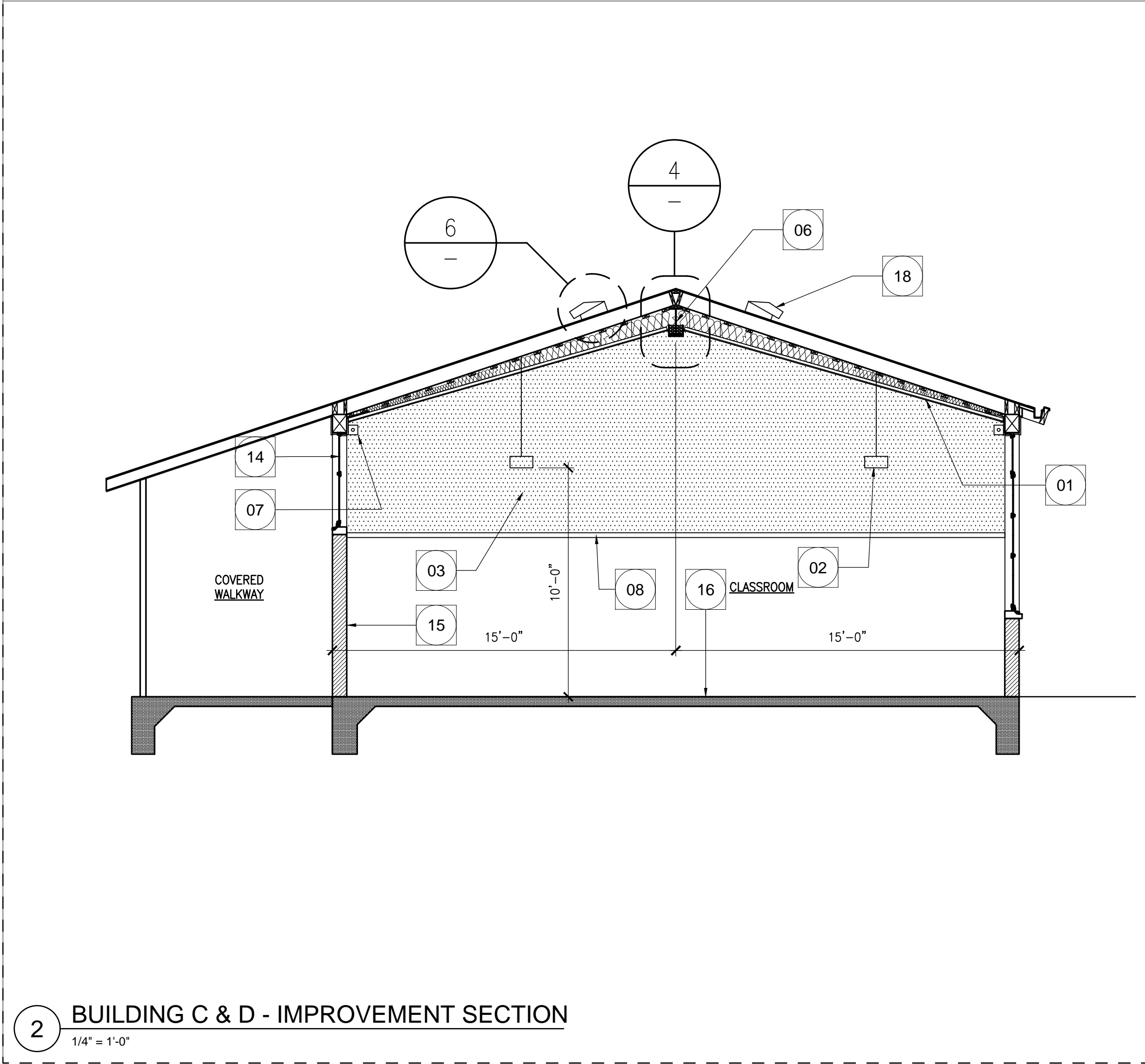
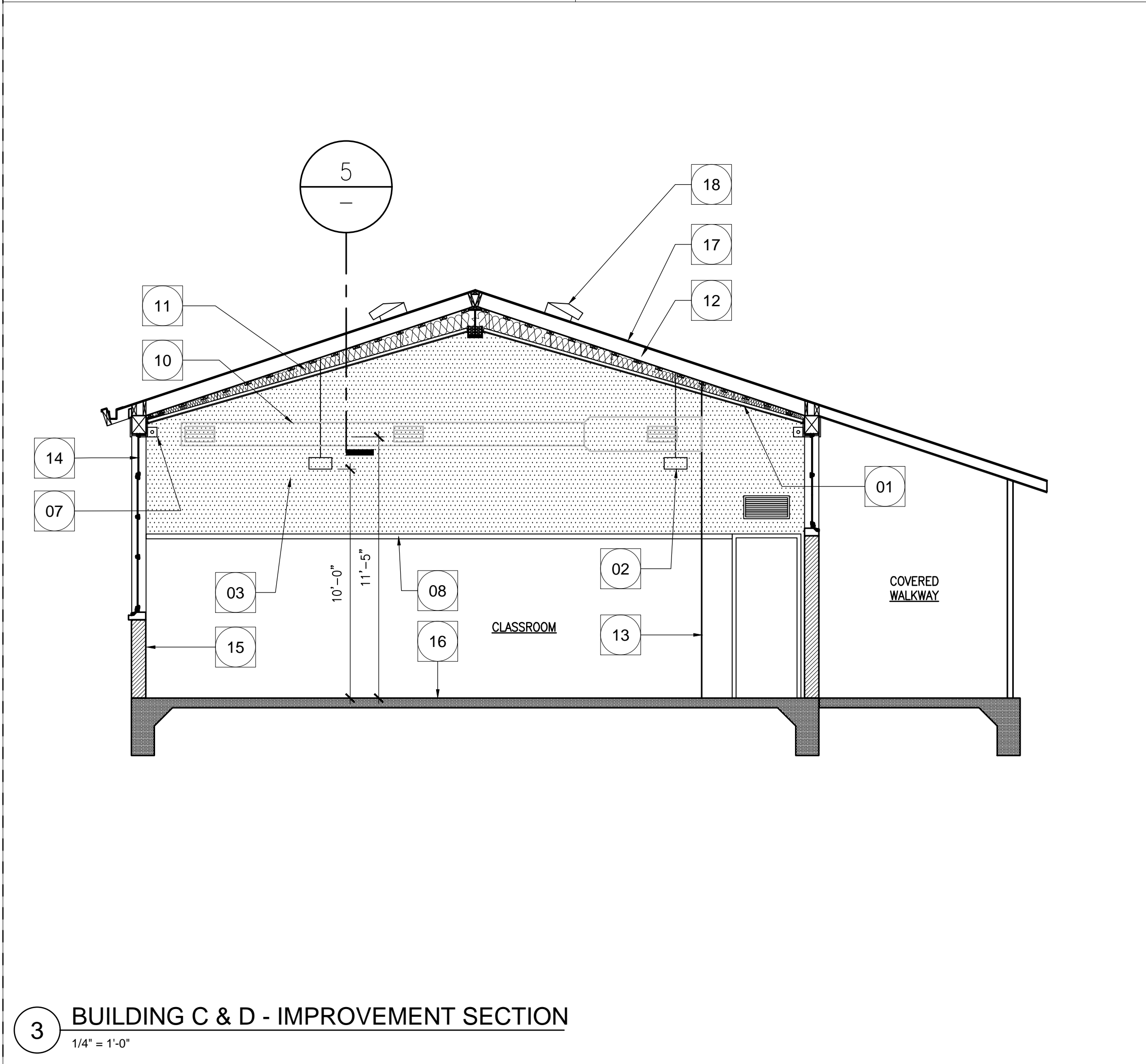
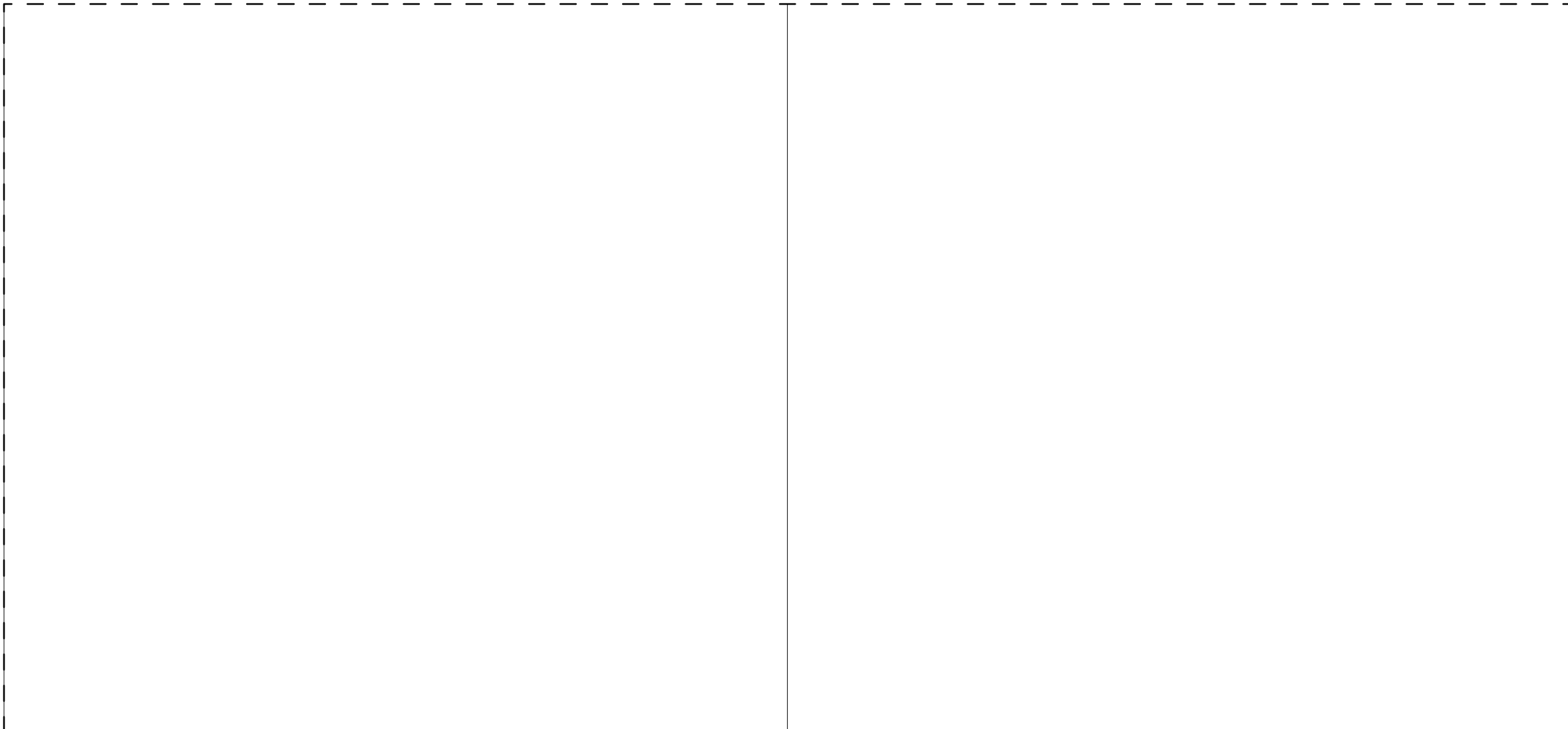
04/15/19 BID SET



417 Montgomery Street
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WWW.HED.DESIGN

DEMOLITION
CEILING PLAN &
BLDG. SECTIONS

AD-101

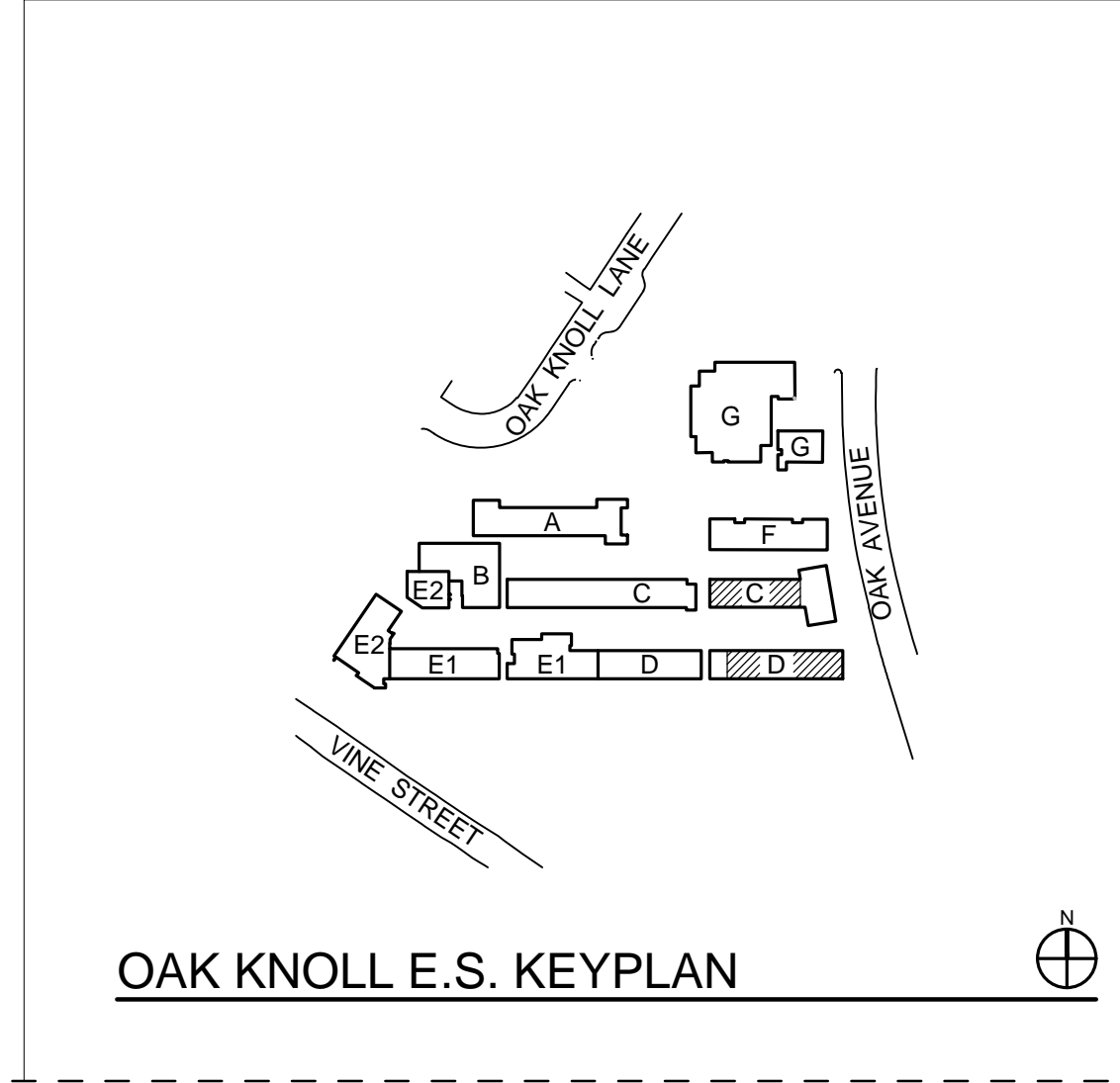


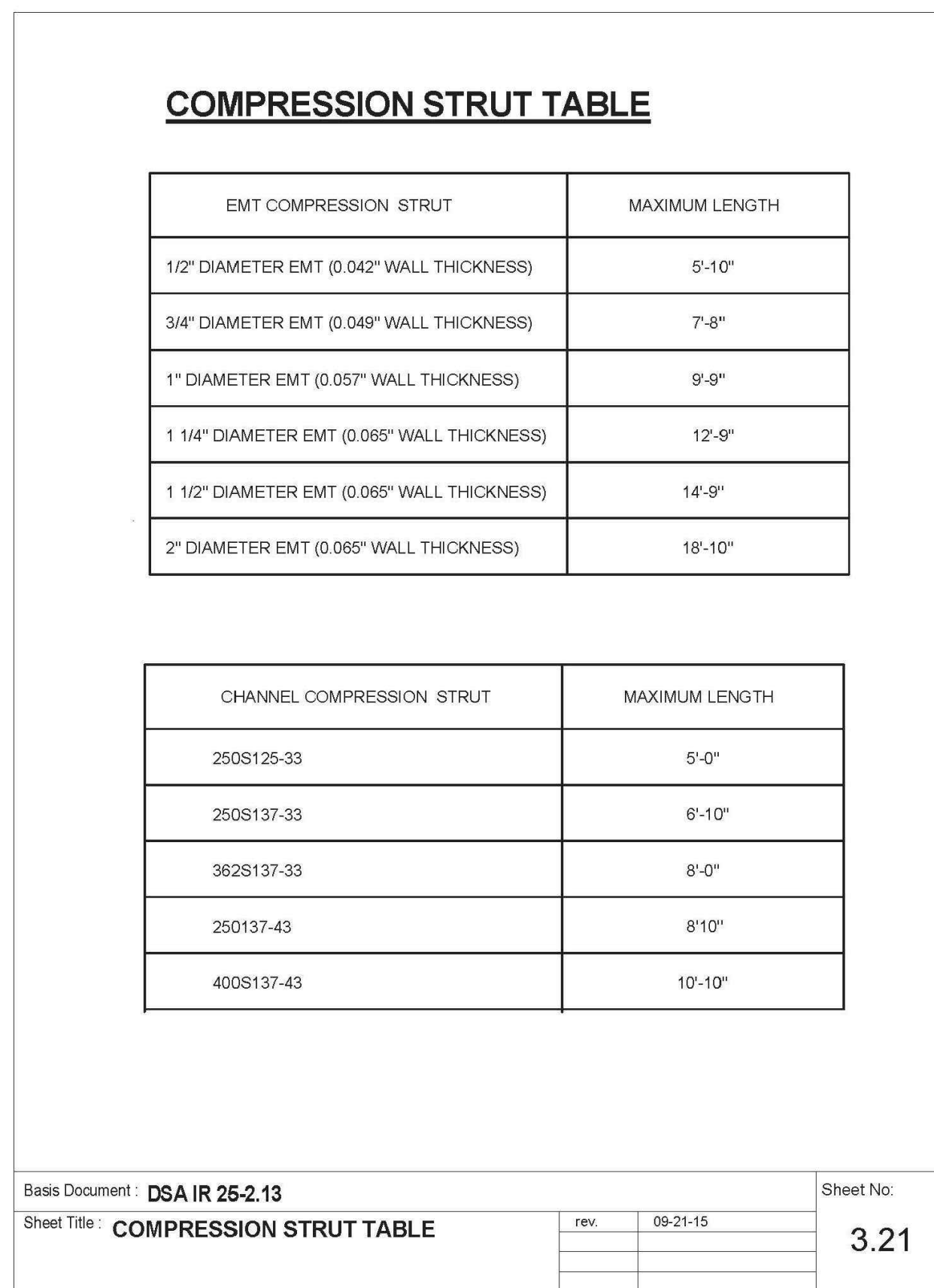
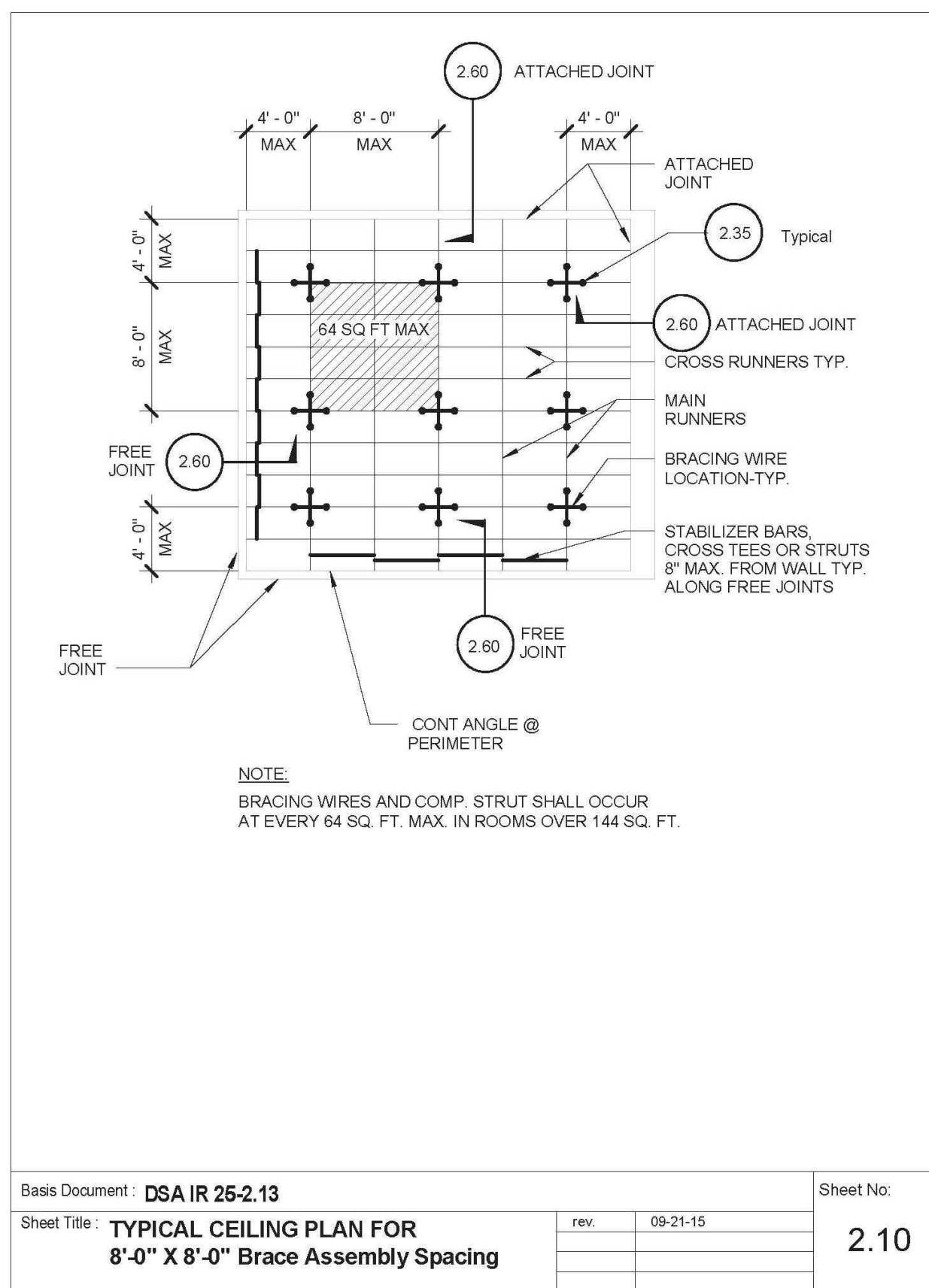
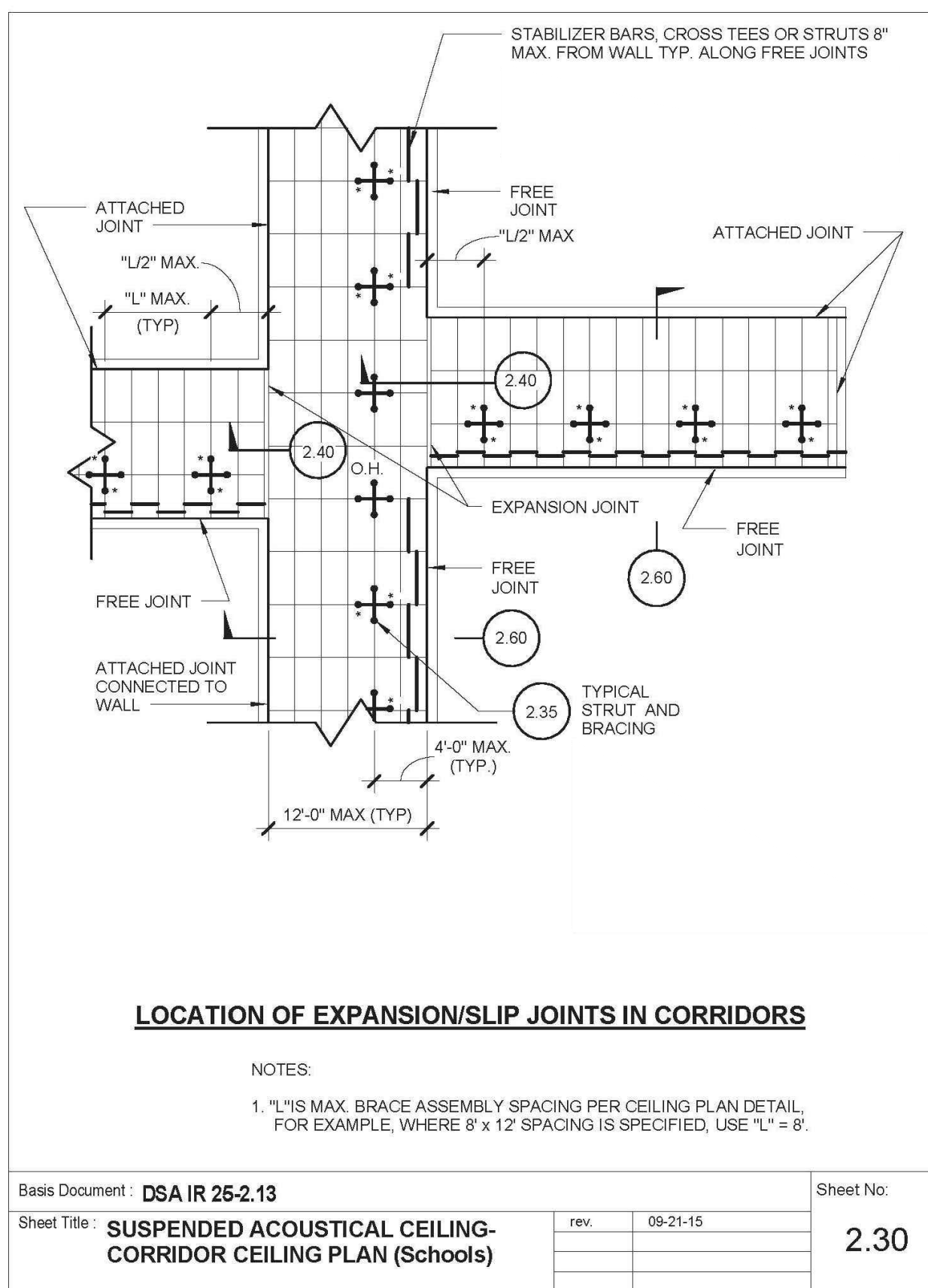
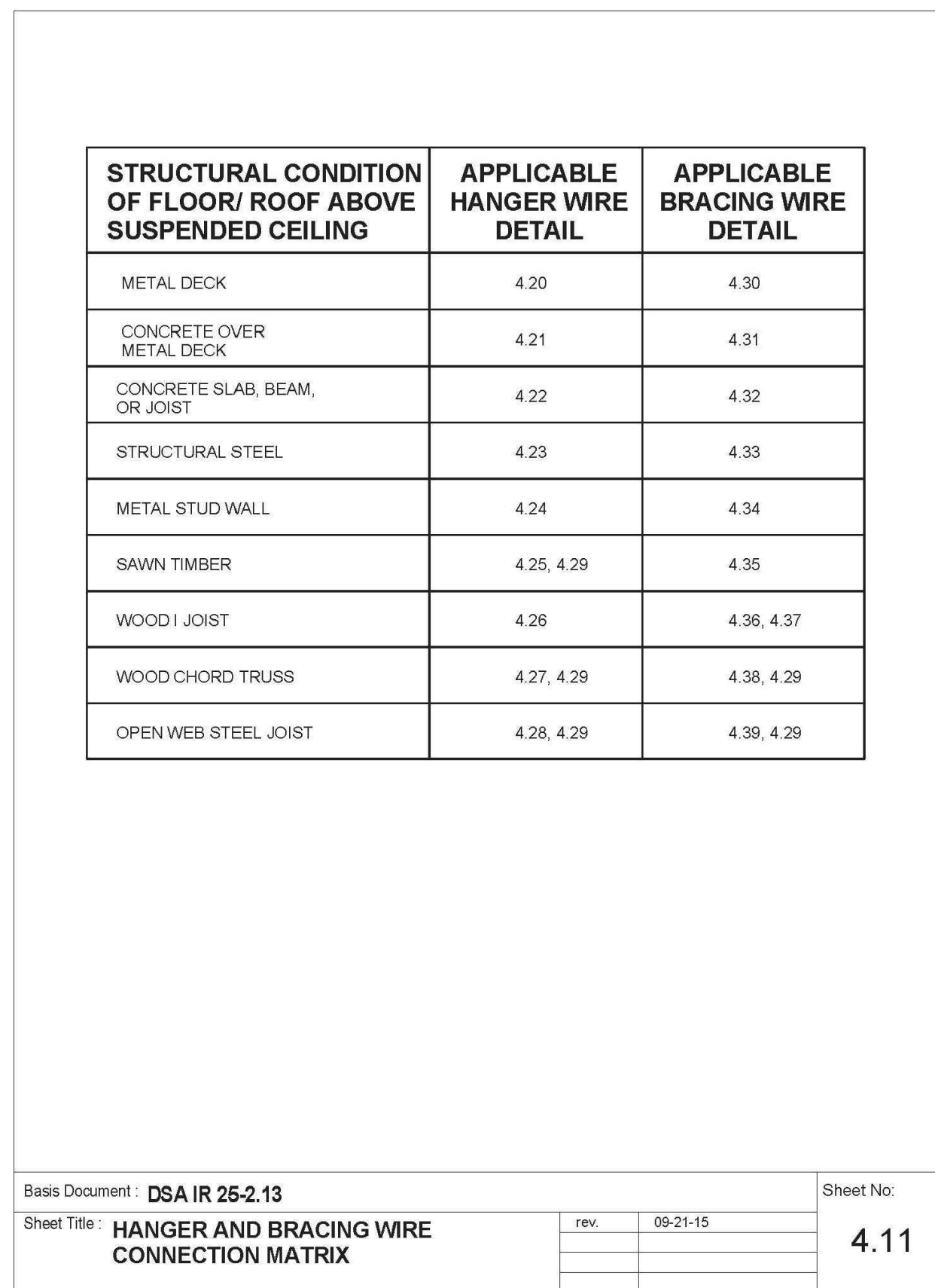
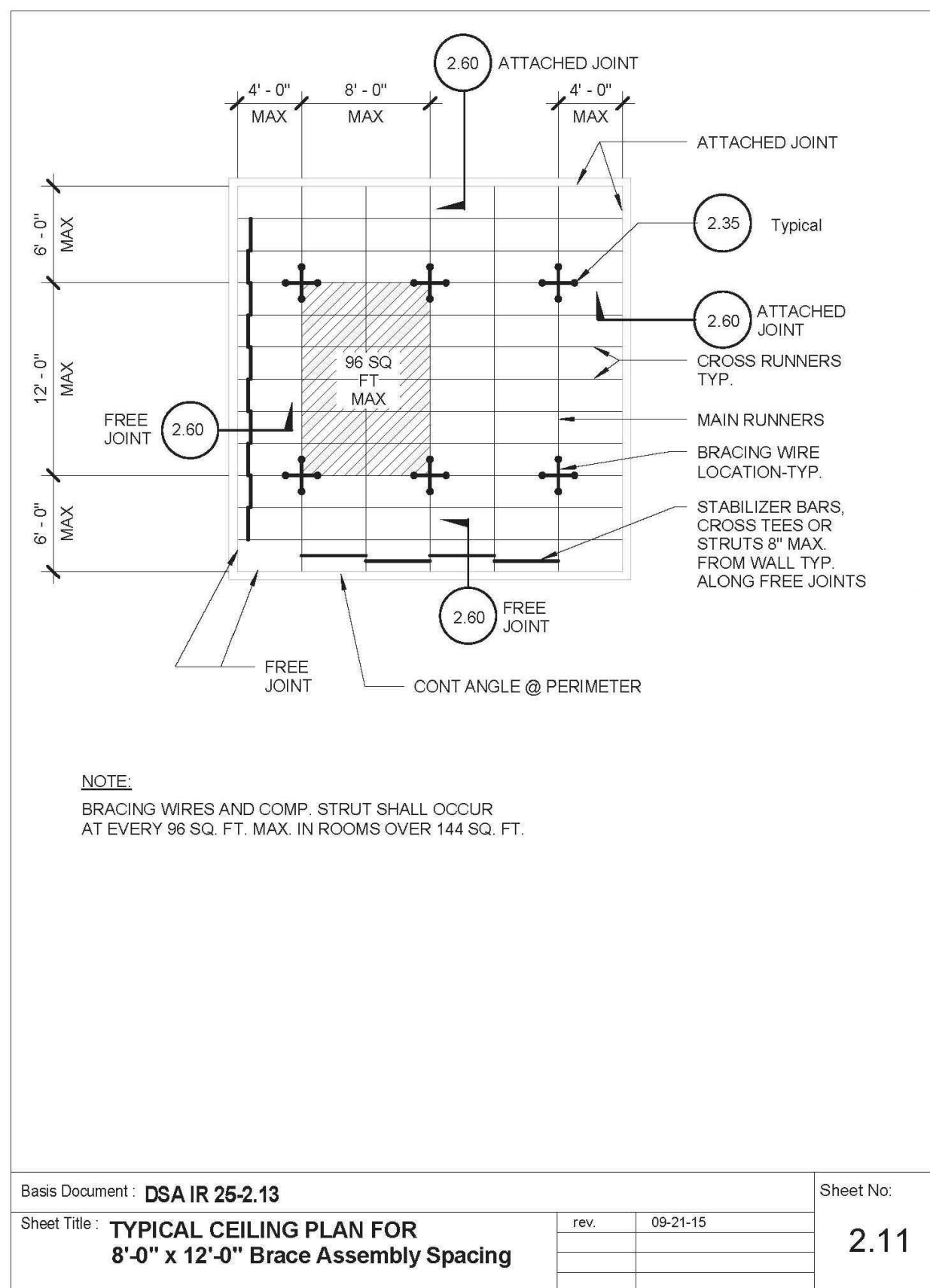
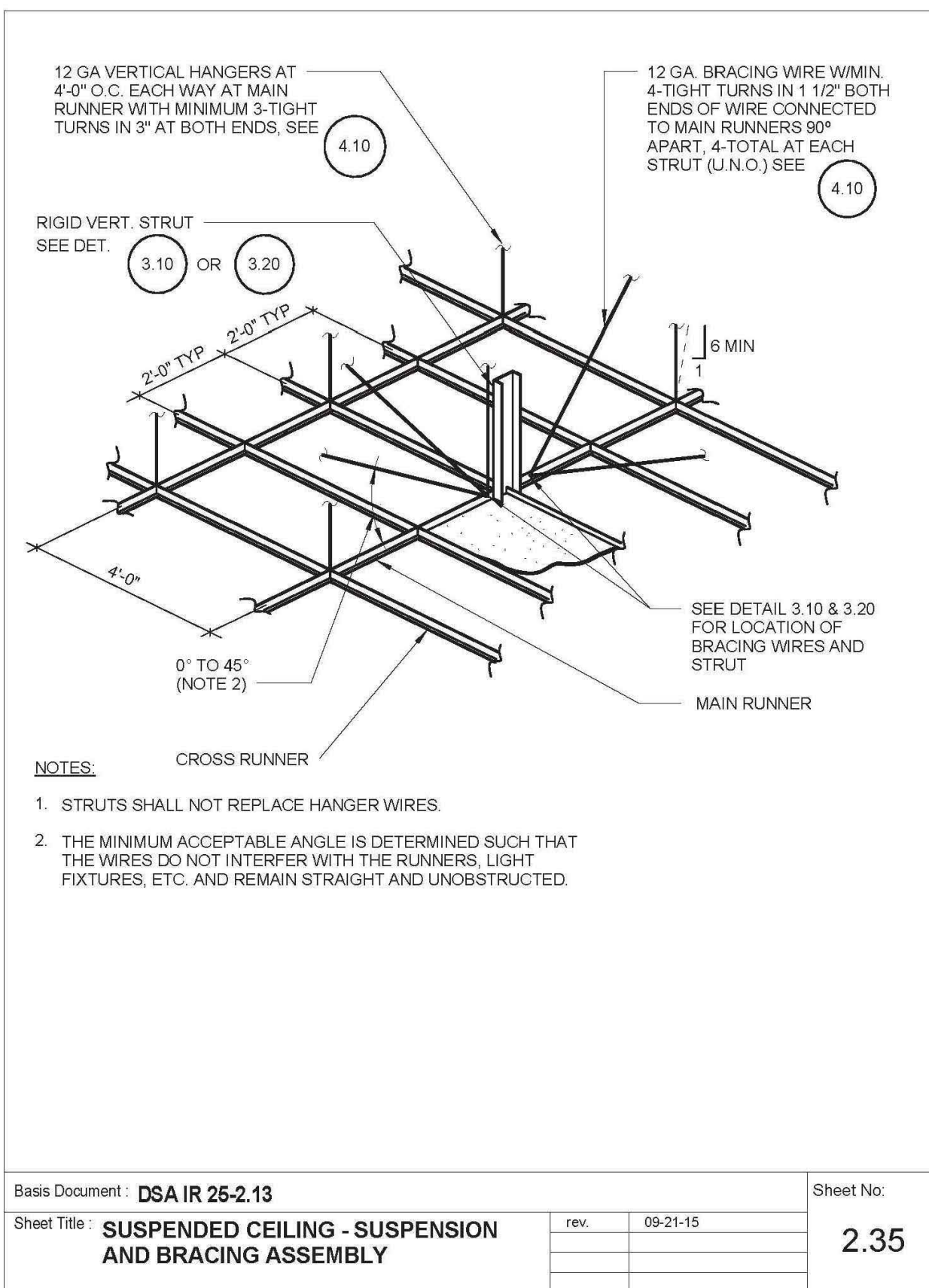
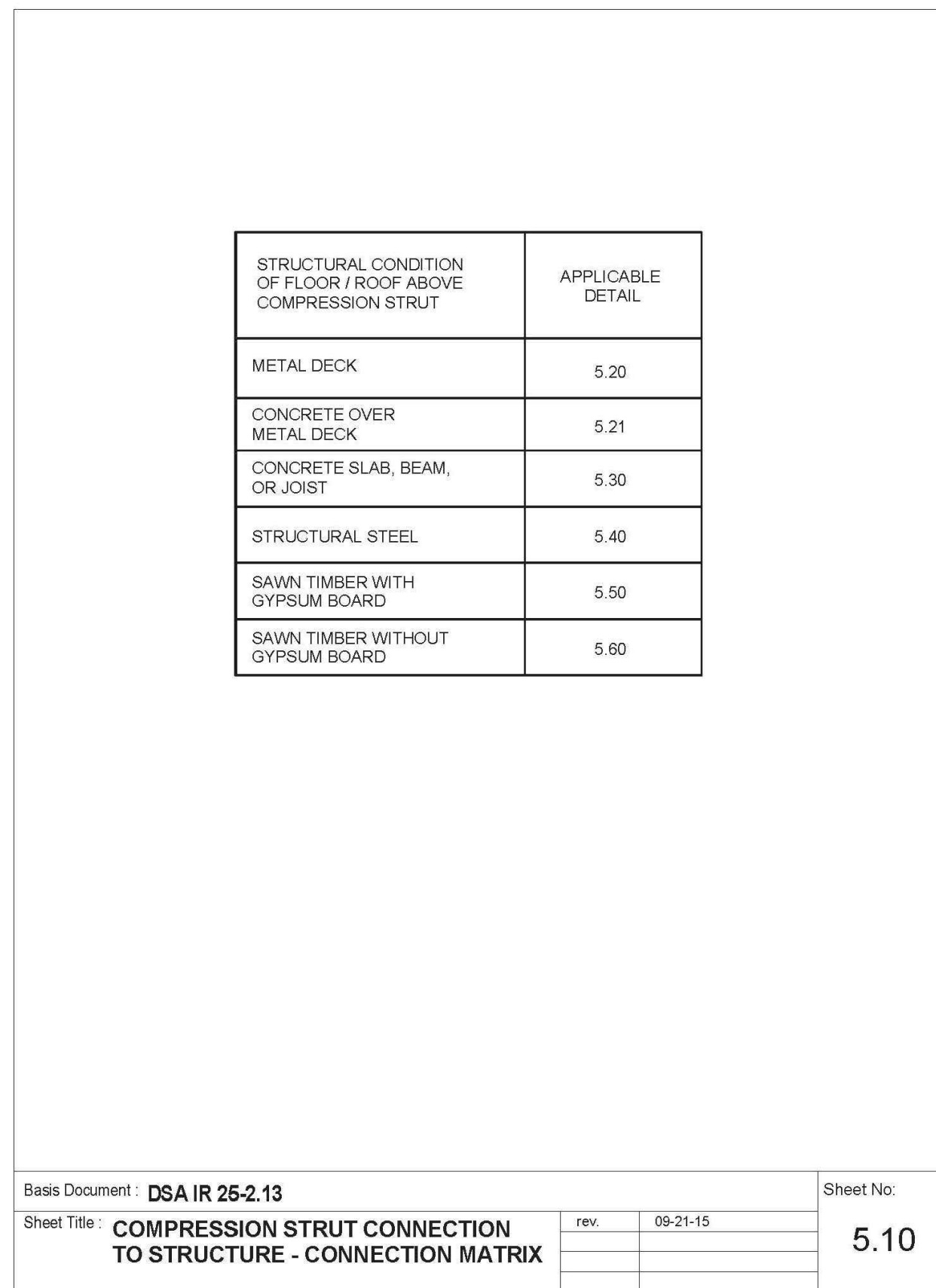
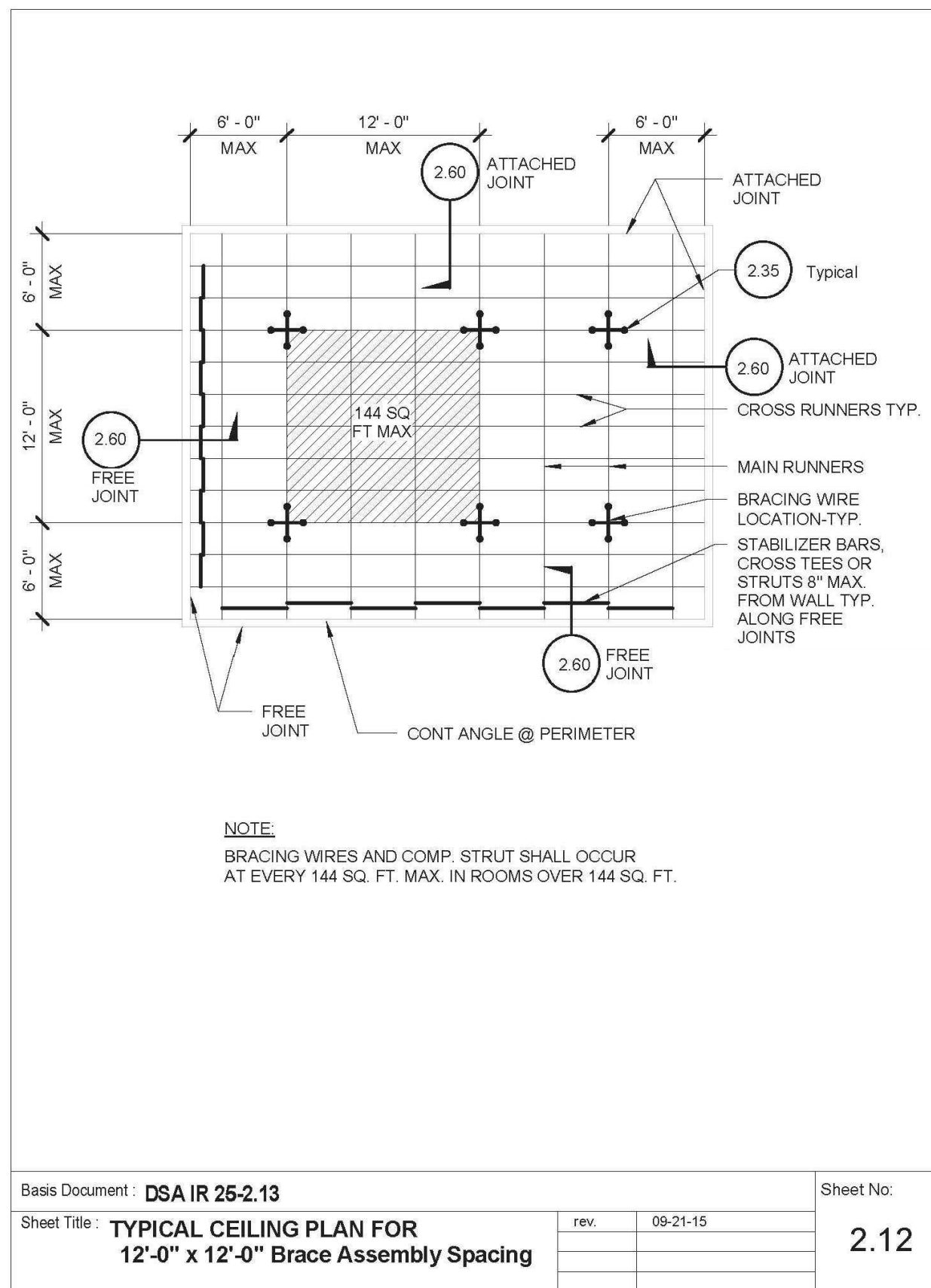
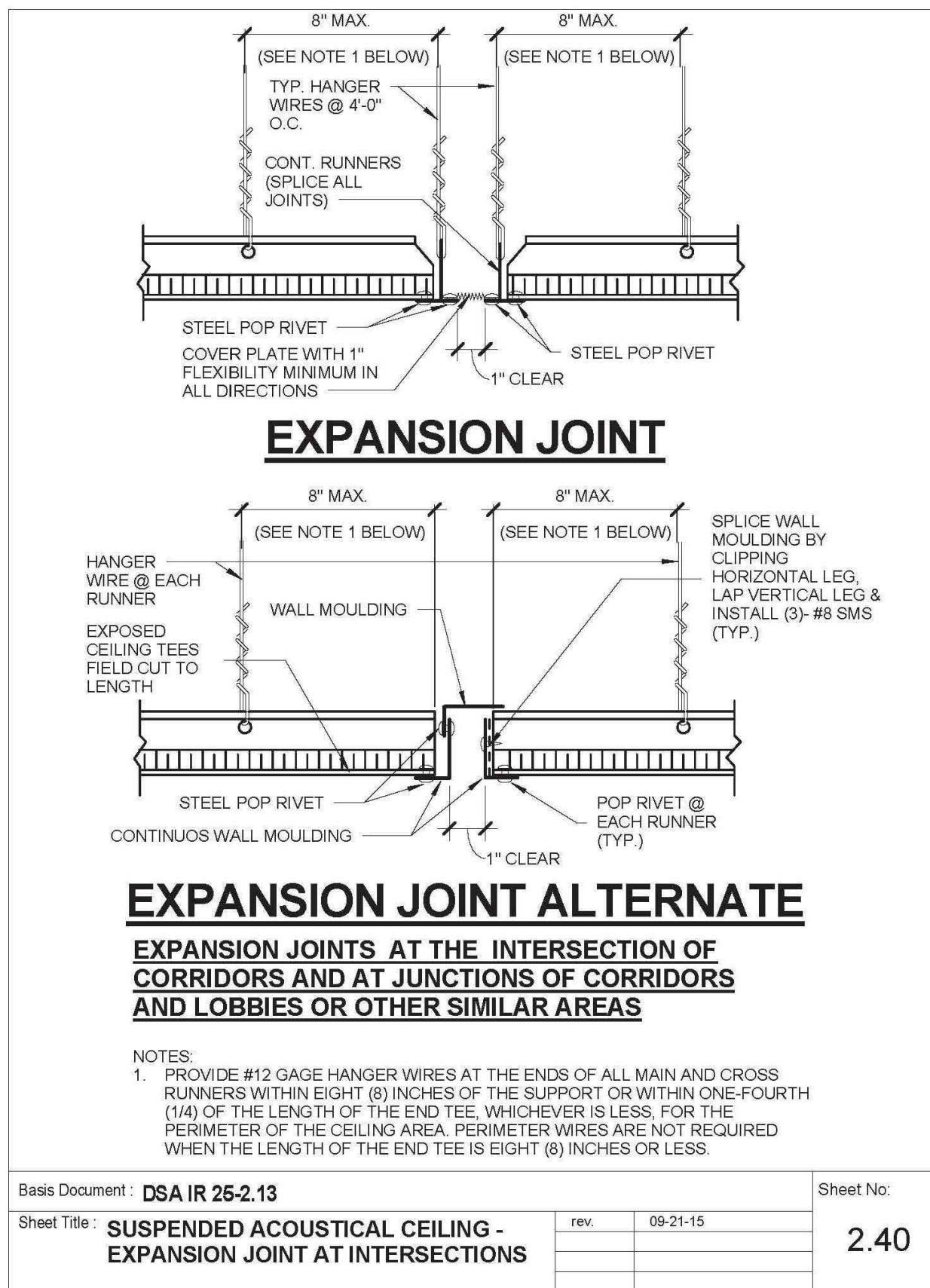
LEGEND	
	(E) CMU WALL
	(E) WINDOW
	(E) CEILING FAN
	(E) MOTION SENSOR
	SUSPENDED CEILING SYSTEM
	PENDANT LIGHT FIXTURE

GENERA NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES	
01	SUSPENDED CEILING SYSTEM.
02	PENDANT LIGHT FIXTURE.
03	FURRED WALL W/ TACK SURFACE.
04	(E) CEILING FAN.
05	(E) CEILING MOUNTED PROJECTOR, PROJECTOR CEILING MOUNT BRACKET.
06	(E) STEEL WIDE FLANGE BEAM, PROTECT.
07	(E) WINDOW SHADES.
08	1X3 WD TRIM, PAINT.
09	(E) WD FURRING TO REMAIN, PROTECT.
10	(E) MECH. DUCT TO REMAIN, PROTECT.
11	BATT INSULATION.
12	(E) ROOF JOIST, PROTECT.
13	(E) MECH. CLOSET, PROTECT.
14	(E) WINDOW, PROTECT.
15	(E) CMU WALL, PROTECT.
16	(E) CONC. SLAB, PROTECT.
17	(E) ASPHALT SHINGLE ROOFING, PATCH AND REPAIR DUE TO NEW WORK.
18	ROOF CAP.





DSA IR 25-2.13 METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS

1. **CEILING SYSTEM GENERAL NOTES:**

- 1.01 Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E580-10a.
- 1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635-08
- 1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer's Name **ARMSTRONG**
Product Name and Evaluation Report Type/Number **PRELUDE XL ICC ESR 1308**
Manufacturer's Model Number - main runner **7301 HD**
Manufacturer's catalog number - cross runner **XL E520 MRC**

1.04 Seismic Wall Clip:

Manufacturer's Model **BERC 2**

1.05 Ceiling panels shall not support any light fixtures, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 3/4" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.

2. **MATERIALS:**

- 2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.
- 2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07/S2-10). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield strength of 50 ksi.
- 2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

3. **ATTACHMENT OF HANGER AND BRACING WIRES:**

- 3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.
- 3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.
- 3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
- 3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
- 3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)

4. **FASTENERS AND WELDING:**

- 4.01 Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed threads.
- 4.02 Expansion anchors shall be:
- Manufacturer's Name **HILTI**
Product Name and Evaluation Report Type/Number **KWIK BOLT TZ ESR 1917**
Manufacturer's Load for each size specified (per CBC 1913A.7.2) **SEE 12[S]**
- 4.03 Power-Actuated Fasteners shall be:
- Manufacturer's Name **HILTI**
Product Name and Evaluation Report Type/Number **X-U or X-P ESR 2269**
- 4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.
- 4.05 Power-actuated fasteners in concrete are not permitted for bracing wires.
- 4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.
- 4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.
5. **TESTING:** All field testing must be performed in the presence of the project inspector.
- 5.01 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7.
- 5.02 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7.

6. **LIGHT FIXTURES:**

6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1.

6.02 Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.

6.03 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.

6.04 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.

6.05 Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.

- 6.06 All Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) but #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) but #12 gage wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.
7. **SERVICES WITHIN THE CEILING:**
- 7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
- 7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from the terminal or service to the structure above.
- 7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
- 7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) but #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.

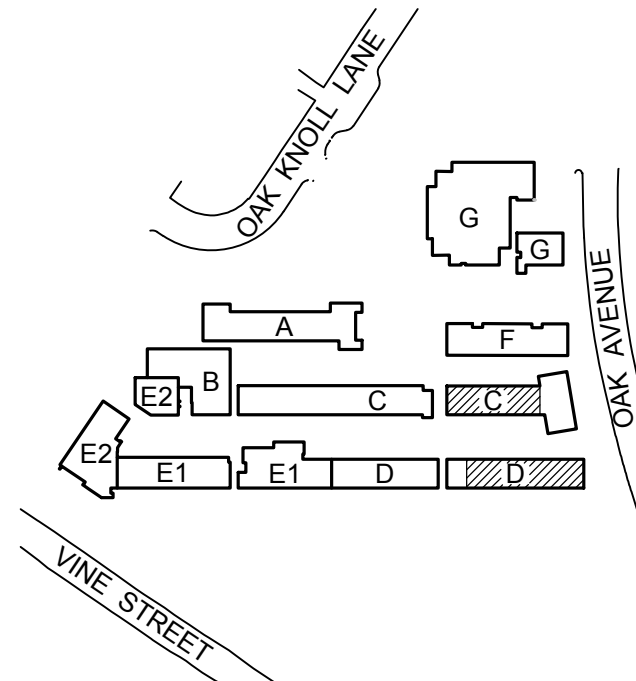
8. **OTHER DEVICES WITHIN THE CEILING:**

- 8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.

SHEET NOTES

1. ALL NOTES AND DRAWINGS ARE PER DSA IR 25-2.13.

OAK KNOLL E.S. KEYPLAN



Oak Knoll E.S.
Lighting Project

Project #1
Buildings C & D

1895 Oak Knoll Lane,
Menlo Park, CA 94027

Date Issued For

HED

417 Montgomery Street
Suite 400
San Francisco, CA
94104 USA

(415) 981-2345

WWW.HED.DESIGN

cbs

- TABLE 2304.10.1
-
- FASTENING SCHEDULE

BUILT-UP HEADER (2" TO 2" HEADER)	16D COMMON (3 1/2" X 0.162")	16" OC EACH EDGE, FACE NAIL
CONTINUOUS HEADER TO STUD	4-8D COMMON (2 1/2" X 0.131")	TOENAIL
TOP PLATE TO TOP PLATE	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL
TOP PLATE TO TOP PLATE, AT END JOINTS	8-16D COMMON (3 1/2" X 0.162")	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL
STUD TO TOP OR BOTTOM PLATE	4-8D COMMON (2 1/2" X 0.131")	TOENAIL
	2-16D COMMON (3 1/2" X 0.162")	END NAIL
TOP OR BOTTOM PLATE TO STUD	2-16D COMMON (3 1/2" X 0.162")	END NAIL
TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16D COMMON (3 1/2" X 0.162")	FACE NAIL
FLOOR		
JOIST TO SILL, TOP PLATE, OR GIRDER	3-8D COMMON (2 1/2" X 0.131")	TOENAIL
RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8D COMMON (2 1/2" X 0.131")	6" OC TOENAIL
BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20D COMMON (4" X 0.192")	32" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	AND: 2-20D COMMON (4" X 0.192")	ENDS AND AT EACH SPLICE, FACE NAIL
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON (3 1/2" X 0.162")	EACH JOIST OR RAFTER, FACE NAIL
JOIST TO BAND JOIST OR RIM JOIST	3-16D COMMON (3 1/2" X 0.162")	END NAIL
BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8D COMMON (2 1/2" X 0.131")	EACH END, TOENAIL



4.34



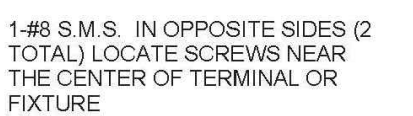
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3.20

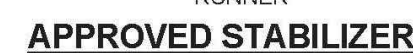


Sheet No:



NOTES

- Basis Document : DSA IR 25-2.13



Sheet No:



6.10



OPTION 2



4.24



3.10

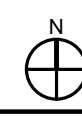


ALTERNATE SEISMIC SEPARATION JOINT

NOTES:

2.45

1. ALL NOTES AND DRAWINGS ARE PER DSA IR 25-2.13.



1895 Oak Knoll Lane,
Menlo Park, CA 94027

Date Issued For

I-HED

417 Montgomery Street
Suite 400
San Francisco, CA
94104 USA









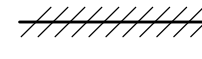









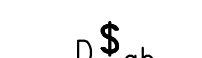




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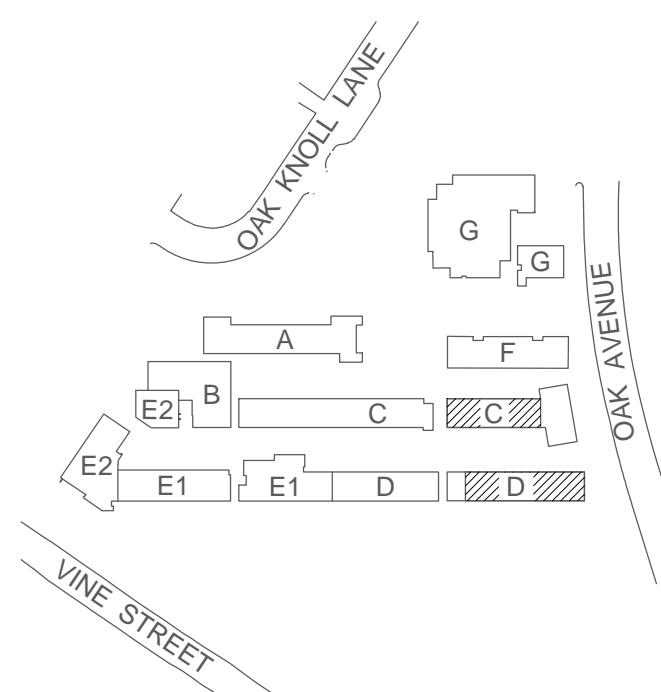
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Details Suspended Ceiling Assembly Typical - Part B

A-572

FILE: M:\01-19-01 Oak Knoll - Menlo Park\01_PROJ-1\CD.dwg Mar 19, 2019 11:27 am Scale: 1"=1 by: CHHS XREFS.

GENERAL NOTES	GENERAL NOTES (CONTINUATION)	LEGEND	DRAWING INDEX																																																																																																																																																						
<div>1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.</div> <div>2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.</div> <div>3. THIS CONTRACTOR SHALL INCLUDE ALL CONTINGENCIES WHICH MAY ARISE AND WHICH MAY BE REQUIRED BY ALTERATION AND DEMOLITION WORK. THIS IS TO INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF ELECTRICAL OUTLETS, CONDUITS, WIRING AND ITEMS FOR ELECTRICAL EQUIPMENT REQUIRED AND ANY NECESSARY SPLICING OR EXTENSION OF EXISTING CONDUIT AND WIRING SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND DETERMINE EXTENT OF THE WORK.</div> <div>4. FIELD VERIFY TO CONFIRM ALL FIRE RESISTIVE CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RESISTIVE FLOORS, WALLS AND CEILINGS.</div> <div>5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.</div> <div>6. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.</div> <div>7. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.</div> <div>8. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED BY HIM. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL ALL COSTS RELATED TO THE DISPOSAL OF EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT.</div> <div>9. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT CONSTRUCTION COORDINATOR. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.</div> <div>10. ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED IN FINISHED AREA, UNLESS OTHERWISE NOTED. CUT AND PATCH (E) WALL OR CEILING AS REQUIRED. SURFACE TYPE RACEWAY MAY BE PROVIDE IN LIEU OF CONCEALED CONDUITS. SEE NOTES 34, 35 AND 36 FOR REQUIREMENTS.</div> <div>11. ALL PENETRATIONS THROUGH FIRE RESISTIVE WALLS SHALL BE TOTALLY SEALED TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GASES, AND WATER THROUGH THE PENETRATION BEFORE, DURING AND AFTER A FIRE CONDITION. THE FIRE RATING OF THE SEALED PENETRATION SHALL BE AT LEAST THAT OF THE WALL INTO WHICH IT IS INSTALLED. THE SEAL SHALL PERMIT THE VIBRATION, EXPANSION AND/OR CONTRACTION OF THE CONDUIT PASSING THROUGH THE PENETRATION WITHOUT THE SEAL CRACKING OR CRUMBLING.</div> <div>12. PROVIDE FLEXIBLE CONDUIT AT BUILDING SEISMIC JOINTS.</div> <div>13. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONLY.</div> <div>14. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".</div> <div>15. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.</div> <div>16. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.</div> <div>17. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.</div> <div>18. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CBC REQUIREMENTS.</div> <div>19. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR OWNER AND IOR.</div> <div>20. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.</div> <div>21. WHERE CONDUIT IS ROUTED ON ROOF STRUCTURES, PROVIDE SUPPORT AT 10'-0" O.C. MAXIMUM.</div> <div>22. ALL EXPOSED CONDUIT BELOW 7'-0" SHALL BE RSC AND ALL EXPOSED HARDWARE SHALL BE "HOT DIPPED" GALVANIZED. ALL INTERIOR CONDUITS MAY BE EMT, UNLESS OTHERWISE NOTED.</div> <div>23. WHERE SURFACE WIRING IS CALLED FOR IN A FINISHED AREA, SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED COMPLETE WITH ALL PROPER FITTINGS, ADAPTERS, OUTLETS, DEVICES COVERS, END CAPS, ETC. AS MANUFACTURED BY PANDUIT OR AN APPROVED EQUAL AND SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING. ALL EXPOSED CONDUITS, BOXES AND CABINETS SHALL ALSO BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.</div>	<div>24. SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES TO BUILDING LINES AND ROUTE AROUND SURFACE MOUNTED ITEMS, SUCH AS TACK BOARDS, ETC.</div> <div>25. ALL WIRES SHALL BE IN CONDUIT U.O.N.</div> <div>26. GENERALLY, HORIZONTAL RUNS SHALL BE INSTALLED ON THE CORNER BELOW CEILING LINE AS APPROVED BY THE ENGINEER.</div> <div>27. ALL UNDERGROUND CONDUIT SHALL HAVE #12 TRACER WIRE WITH THWN INSULATION UNDER EACH RUN OF THE UNDERGROUND CONDUIT DUCTBANK AND 6" FOIL MARKER IN TRENCH. TRACE WIRE SHALL EXTEND AT TERMINATION POINTS A MIN. OF 3 FT FROM SUCH SURFACE AND SHALL BE TRAPPED SECURED TO CONDUIT OR ACCEPTABLE EQUIVALENT.</div> <div>28. UPON COMPLETION OF CONSTRUCTION, PAINT ALL EXPOSED ELECTRICAL CONDUITS, DEVICES AND BOXES (UNLESS DEVICES OR BOXES ARE ALREADY PRE-FINISHED) PER SPECIFICATION SECTION 09900, PARAGRAPH 2.3 PAINTING SCHEDULE. PAINT COLOR SHALL MATCH THE EXISTING SURFACES.</div> <div>29. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.</div> <div>30. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST IN THE PRESENCE OF DSA IOR TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED TEST RESULTS SHALL BE SENT TO DISTRICT FOR IOR AND AOR. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>ABBREVIATIONS</div> <table><tr><td>A</td><td>AMP</td><td>AMPERE</td><td>O.C.</td><td>ON CENTER</td></tr><tr><td>AFF</td><td></td><td>ABOVE FINISHED FLOOR</td><td></td><td></td></tr><tr><td>AP</td><td></td><td>ACCESS POINT</td><td>PA</td><td>PUBLIC ADDRESS</td></tr><tr><td></td><td></td><td></td><td>PH, Ø</td><td>PHASE</td></tr><tr><td>BRKR</td><td></td><td>BREAKER</td><td>PNL</td><td>PANEL</td></tr><tr><td></td><td></td><td></td><td>(R)</td><td>RELOCATED</td></tr><tr><td>C</td><td></td><td>CONDUIT, CLOCK</td><td>RECEPT.</td><td>RECEPTACLE</td></tr><tr><td>CATV</td><td></td><td>CABLE TELEVISION</td><td></td><td></td></tr><tr><td>CBC</td><td></td><td>CALIFORNIA BUILDING CODE</td><td></td><td></td></tr><tr><td>CCTV</td><td></td><td>CLOSED CIRCUIT TELEVISION</td><td></td><td></td></tr><tr><td>CEC</td><td></td><td>CALIFORNIA ELECTRIC CODE</td><td>SAD</td><td>SEE ARCHITECTURAL DRAWINGS</td></tr><tr><td>CKT</td><td></td><td>CIRCUIT</td><td></td><td></td></tr><tr><td>CO</td><td></td><td>CONDUIT ONLY WITH PULL ROPE</td><td></td><td></td></tr><tr><td>CPS</td><td></td><td>CURRICULUM AND PRESENTATION SYSTEM</td><td>STC</td><td>SATELLITE TERMINAL CABINET</td></tr><tr><td>CSC</td><td></td><td>CLOCK/SPEAKER CABINET</td><td></td><td></td></tr><tr><td>(E)</td><td></td><td>EXISTING</td><td>TRANSF.</td><td>TRANSFORMER</td></tr><tr><td>FU</td><td></td><td>FUSE</td><td>TB</td><td>TELEPHONE BOARD</td></tr><tr><td></td><td></td><td></td><td>TC</td><td>TERMINAL CAN</td></tr><tr><td>G</td><td></td><td>GROUND, GUARD</td><td>TYP</td><td>TYPICAL</td></tr><tr><td>IDF</td><td></td><td>INTERMEDIATE DISTRIBUTION FRAME</td><td>UON</td><td>UNLESS OTHERWISE NOTED</td></tr><tr><td></td><td></td><td></td><td>V</td><td>VOLT</td></tr><tr><td>MAX</td><td></td><td>MAXIMUM</td><td></td><td></td></tr><tr><td>MDF</td><td></td><td>MAIN DISTRIBUTION FRAME</td><td>W</td><td>WATT</td></tr><tr><td>MIN</td><td></td><td>MINIMUM</td><td>WG</td><td>WIRE GUARD</td></tr><tr><td>MPOE</td><td></td><td>MAIN POINT OF ENTRY</td><td>WP</td><td>WEATHERPROOF</td></tr><tr><td>MSTC</td><td></td><td>MAIN SIGNAL TELEPHONE CABINET</td><td></td><td></td></tr><tr><td>MTB</td><td></td><td>MAIN TELEPHONE BOARD</td><td>XFMR</td><td>TRANSFORMER</td></tr><tr><td>NEC</td><td></td><td>NATIONAL ELECTRICAL CODE</td><td></td><td></td></tr><tr><td>NL</td><td></td><td>NIGHT LIGHT</td><td></td><td></td></tr><tr><td>NTS</td><td></td><td>NOT TO SCALE</td><td></td><td></td></tr></table>	A	AMP	AMPERE	O.C.	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LIST OF APPLICABLE CODES				<div>1. 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)</div> <div>2. 2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)</div> <div>3. 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)</div> <div>4. 2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)</div> <div>5. 2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)</div> <div>6. 2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)</div> <div>7. 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)</div> <div>8. 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)</div> <div>9. 2016 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)</div> <div>10. NFPA 13, 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED</div> <div>11. NFPA 14, 2016 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS</div> <div>12. NFPA 24, 2016 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES</div> <div>13. NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED</div>																																																																																																																																																					



OAK KNOLL E.S. KEYPLAN

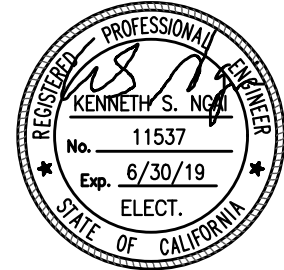


Oak Knoll E.S.
Lighting Project

Project #1
Buildings C & D

1895 Oak Knoll Lane,
Menlo Park, CA 94027

Date Issued For



HED

417 Montgomery Street
Suite 400
San Francisco, CA
94104 USA

(415) 981-2345

WWW.HED.DESIGN

STATE OF CALIFORNIA INDOOR LIGHTING (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

A. General Information Climate Zone: 3 Conditioned Floor Area: 8,362 Unconditioned Floor Area: 0 Building Type: Nonresidential School New Construction Addition Alteration Complete Building Area Category Tailored Project Address: 1885 OAK KNOLL LANE

B. Lighting Compliance Documents (select yes for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

C. Summary of Allowed Lighting Power Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces Indoor Lighting Power for Unconditioned Spaces

D. Declaration of Required Certificates of Installation Declares by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

E. Declaration of Required Certificates of Acceptance Declares by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

F. Indoor Lighting Schedule and Field Inspection Energy Checklist The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

A. Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

INSTALLED WATTS PAGE TOTAL: 3,142 Enter sum total of all pages into NRCC-LTI-01-E, Page 2.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance is accurate and complete.

DOAN TRANG HOANG Alliance Engineering Consultants, Inc. 4701 PATRICK HENRY DRIVE, BLDG 10 SANTA CLARA, CA 95054 408-970-9888

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

A. Separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting Power Allowance Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

A. Separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

C. AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

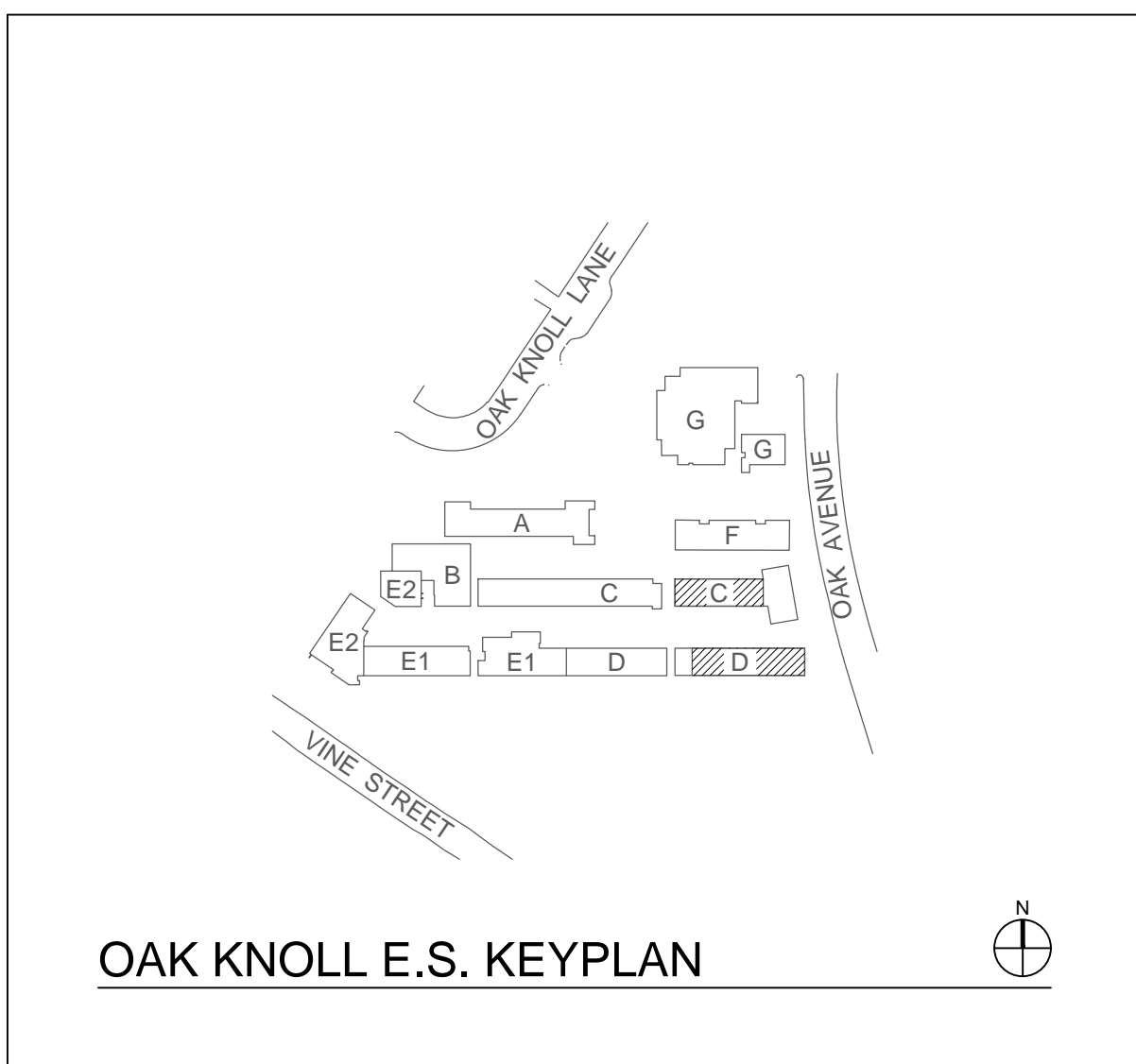
STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE (RECEIVED) CERTIFICATE OF COMPLIANCE Indoor Lighting Power Allowance Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance is accurate and complete.

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RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:

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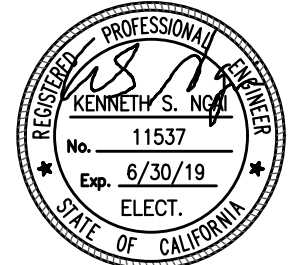


Oak Knoll E.S. Lighting Project

Project #1 Buildings C & D

1885 Oak Knoll Lane, Menlo Park, CA 94027

Date Issued For



HED 417 Montgomery Street Suite 400 San Francisco, CA 94104 USA (415) 981-2345 WWW.HED-DESIGN

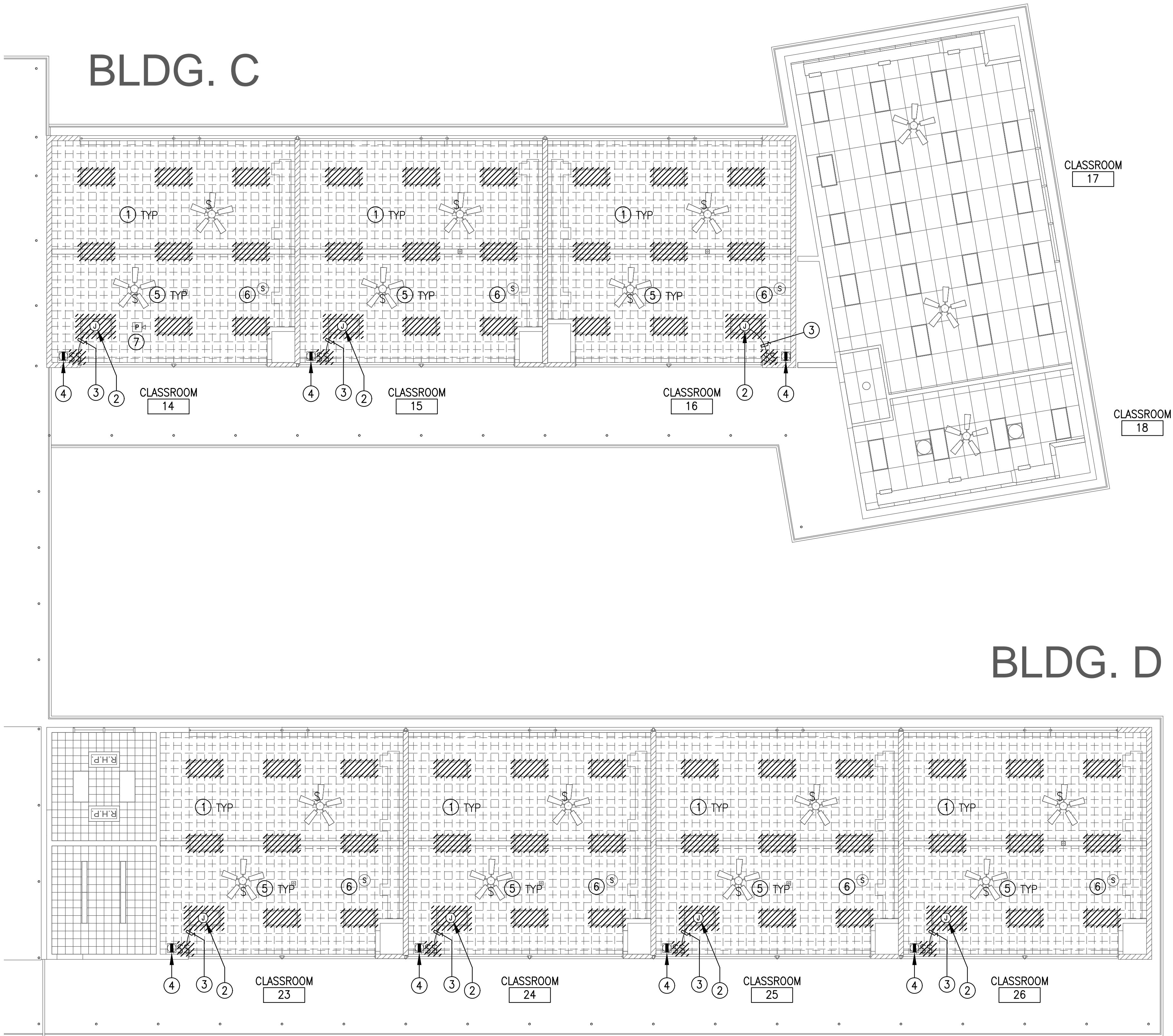
2018-04589-000

CERTIFICATE OF COMPLIANCE TITLE 24

E0.2

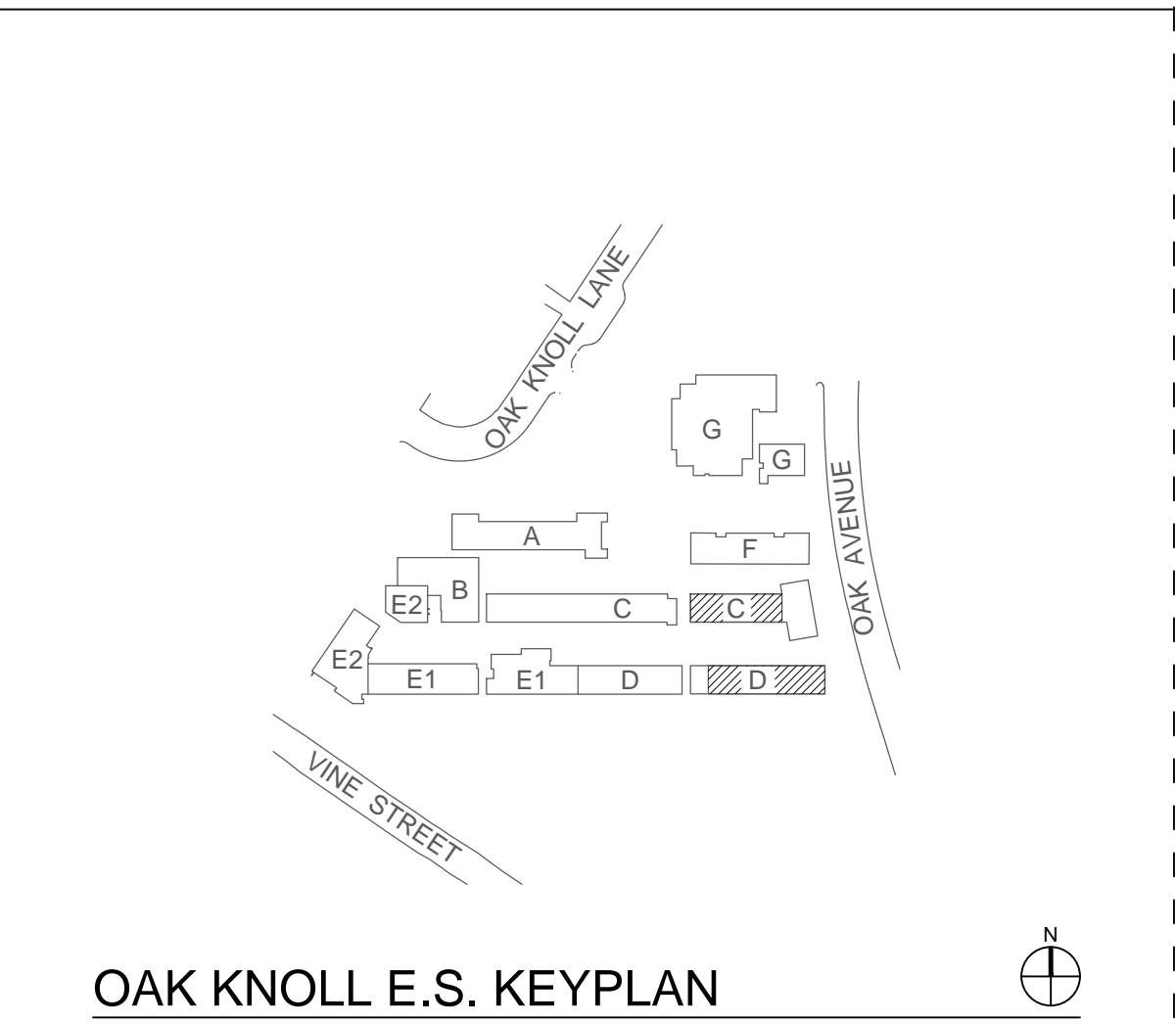
SHEET NOTES:

- ①
- ALL (E) LIGHT FIXTURES, POWER PACKS, OCCUPANCY SENSORS AND SWITCHES SHOWN ON THIS ROOM SHALL BE DISCONNECTED AND REMOVED.
- ②
- DISCONNECT AND REMOVE (E) LIGHT FIXTURE, COIL UP AND TAPE (E) WIRES IN (E) JUNCTION BOX FOR RECONNECTION IN THE (N) WORK.
- ③
- (E) 3/4"Ø FROM (E) JUNCTION BOX TO (E) SWITCH SHALL REMAIN FOR (N) DIMMER SWITCH TO BE INSTALLED IN THE (N) WORK. REMOVE (E) WIRES.
- ④
- (E) FAN CONTROL SWITCHES SHALL REMAIN.
- ⑤
- RELOCATE (E) CEILING FAN WITH SWITCHES TO THE (N) LOCATION SHOWN IN THE (N) WORK.
- ④
- RELOCATE (E) FLUSH MOUNTED SPEAKER TO THE (N) LOCATION SHOWN IN THE (N) WORK. COIL UP (E) WIRES IN A JUNCTION BOX FOR RECONNECTION IN THE (N) WORK.
- ⑤
- DISCONNECT AND REMOVE (E) PROJECTOR (SHOWN OR NOT SHOWN) INCLUDING ALL ASSOCIATED CONDUIT, WIRES AND CABLES UP TO SOURCE.



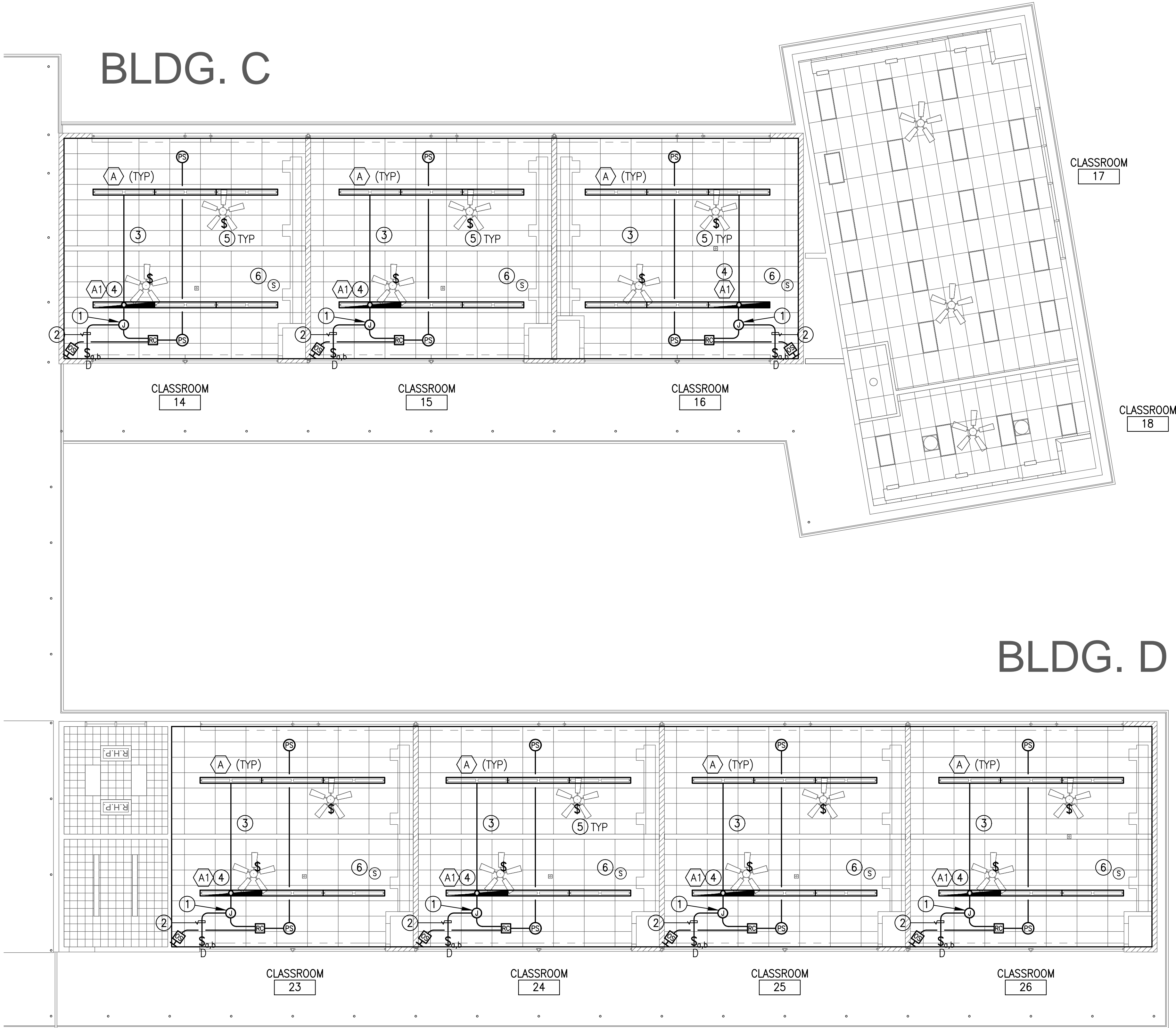
1 DEMOLITION PLAN – ELECTRICAL⑦

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



SHEET NOTES:

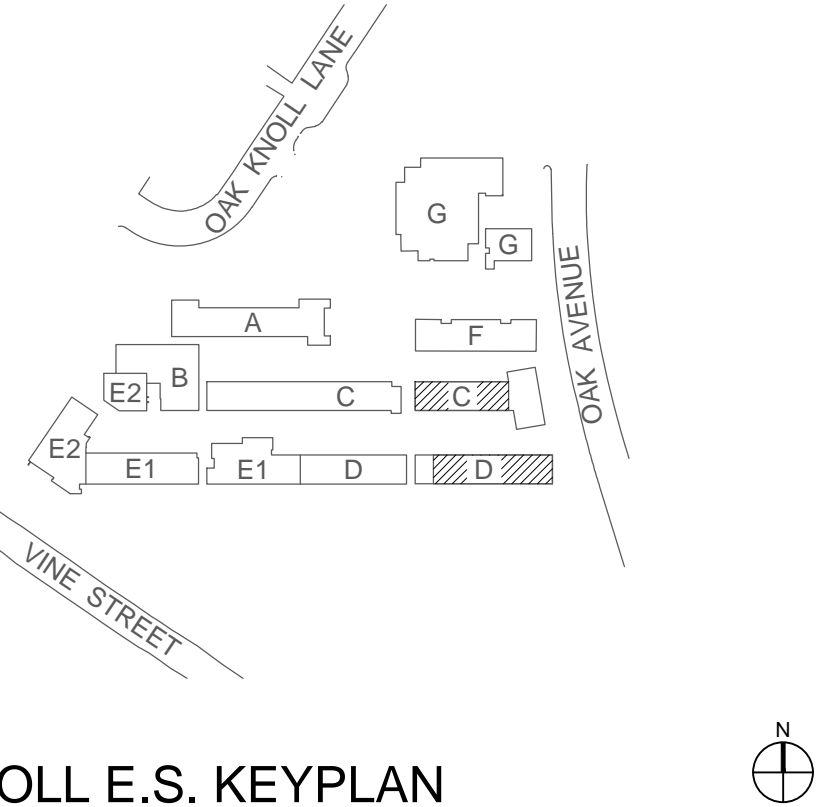
- 1
- INTERCEPT (E) HOT WIRES (FIELD VERIFY) AND EXTEND (N) CONDUIT AND WIRES TO (N) LIGHTING FIXTURES AS SHOWN. REFER TO NOTE 2 ON SHEET E1.1.
- 2
- UTILIZE (E) 3/4" C TO INSTALL (N) CAT6 CABLE FOR DIMMING CONTROL. REFER TO NOTE 3 ON SHEET E1.1.
- 3
- SEE CONTROL WIRING DIAGRAM FOR ADDITIONAL WORK REQUIRED AND INFORMATION.
- 4
- PROVIDE UNSWITCHED HOT WIRE TO EMERGENCY DRIVER.
- 5
- REINSTALL (E) CEILING FAN WITH SWITCH. EXTEND CONDUIT AND WIRES AS REQUIRED TO PUT IT BACK IN SERVICE. SEE ATTACHMENT DETAIL 1 ON SHEET E3.1.
- 6
- REINSTALL (E) SPEAKER. EXTEND CONDUIT AND WIRES AS REQUIRED TO PUT IT BACK IN SERVICE. SPEAKER WIRE TYPE SHALL BE THE SAME AS (E). FIELD VERIFY.



1

ELECTRICAL PLAN

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

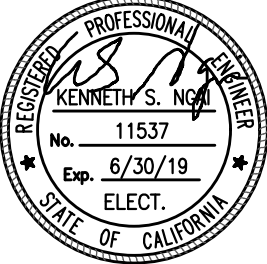


Oak Knoll E.S.
Lighting Project

Project #1
Buildings C & D

1895 Oak Knoll Lane,
Menlo Park, CA 94027

Date Issued For

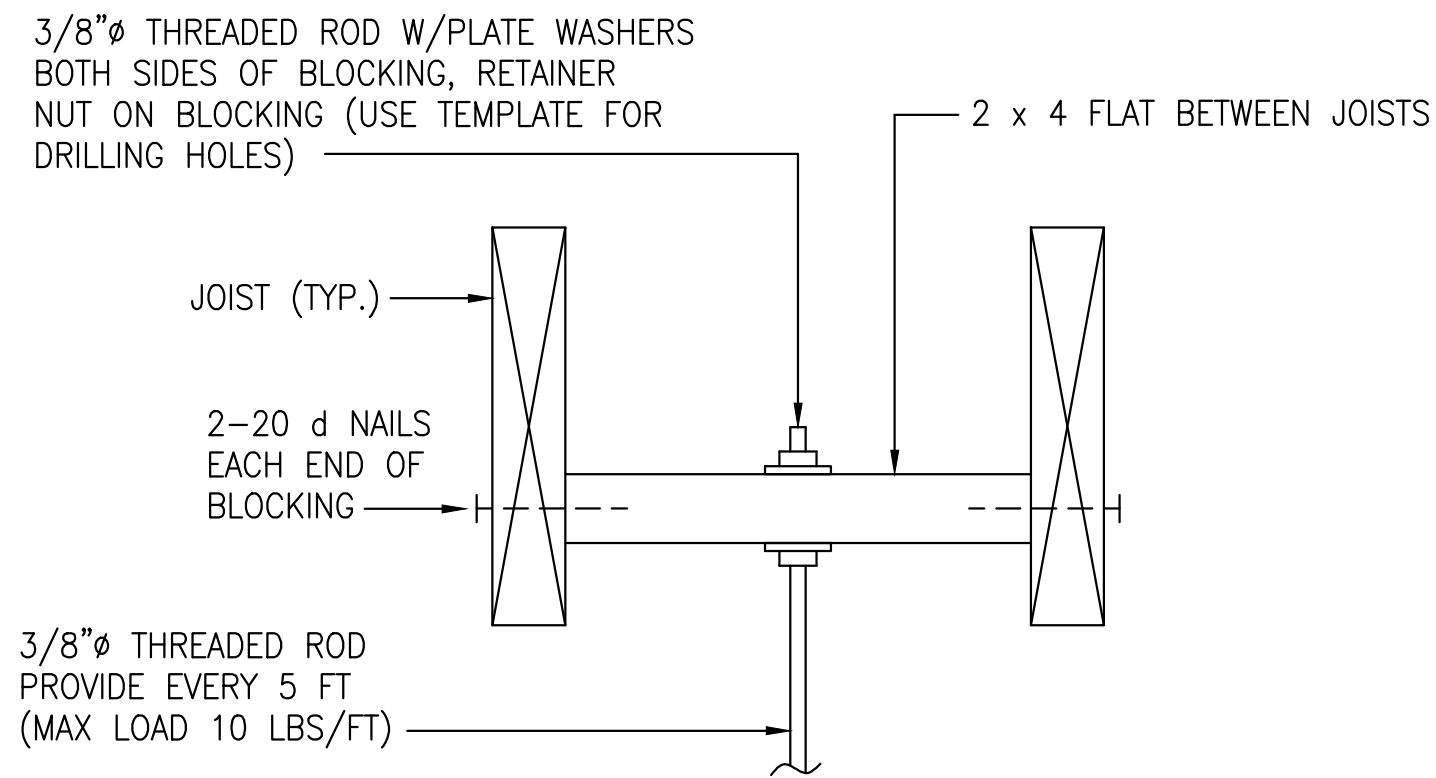


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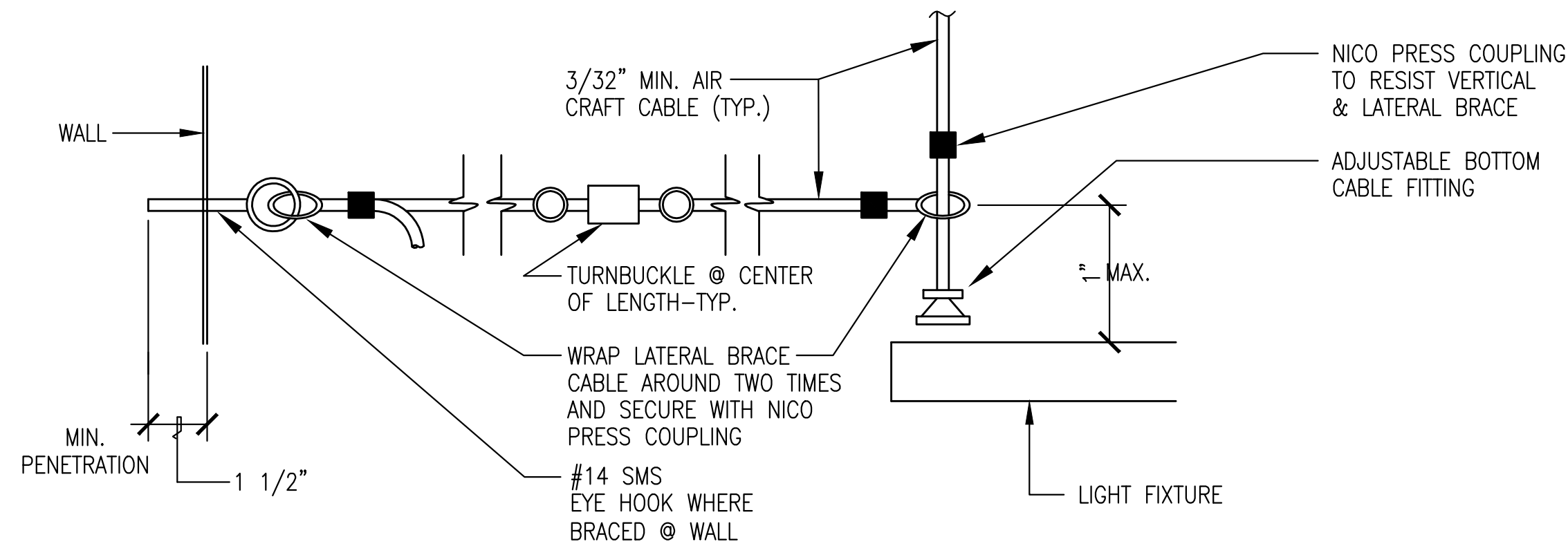
2018-04589-000

ELECTRICAL PLAN

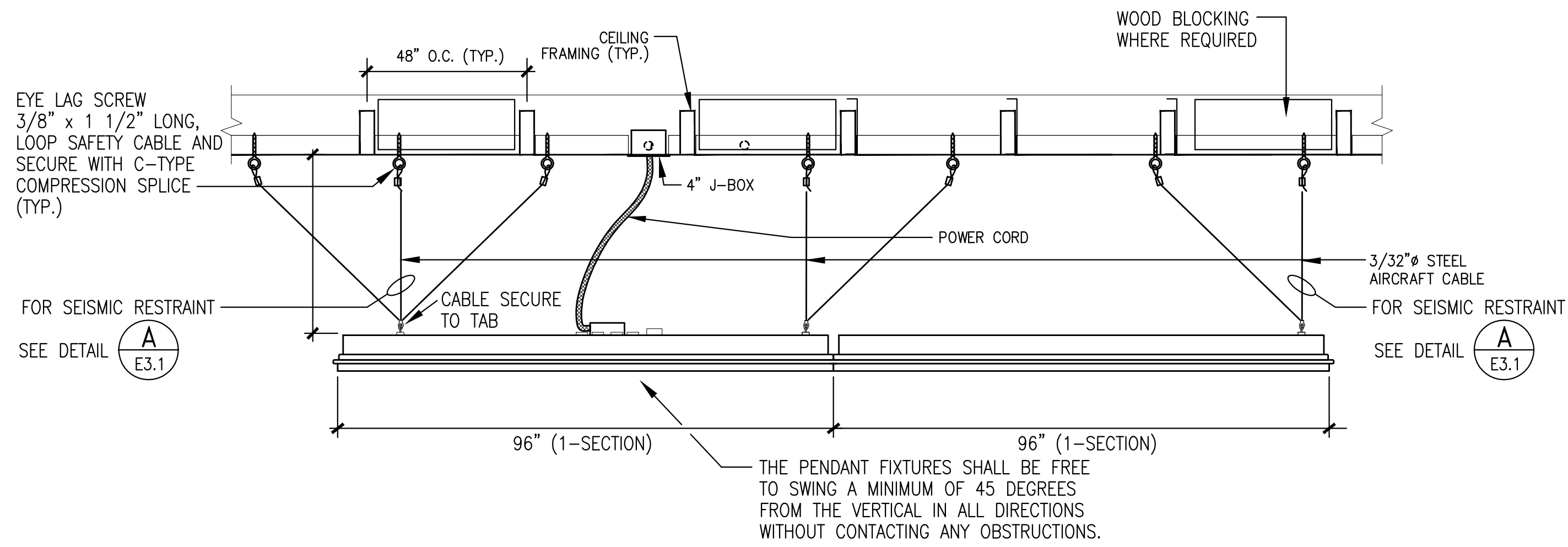
E2.1



1 CEILING FAN/PENDANT LIGHT FIXTURE
UPPER SUPPORT MOUNTING DETAIL (TYP)
NOT TO SCALE

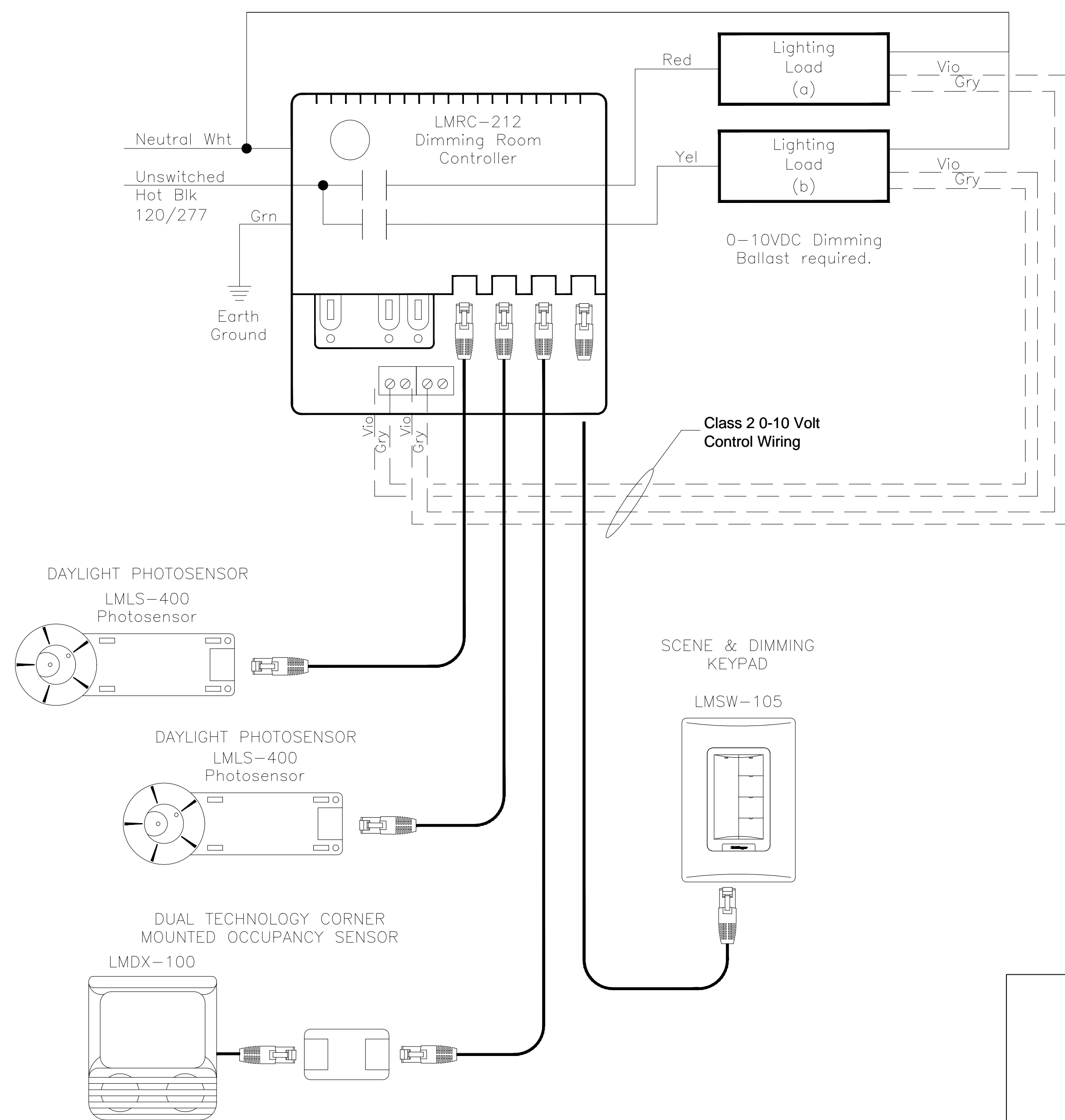


A SEISMIC RESTRAINT DETAIL (ON THE WALL)
E3.1 NOT TO SCALE

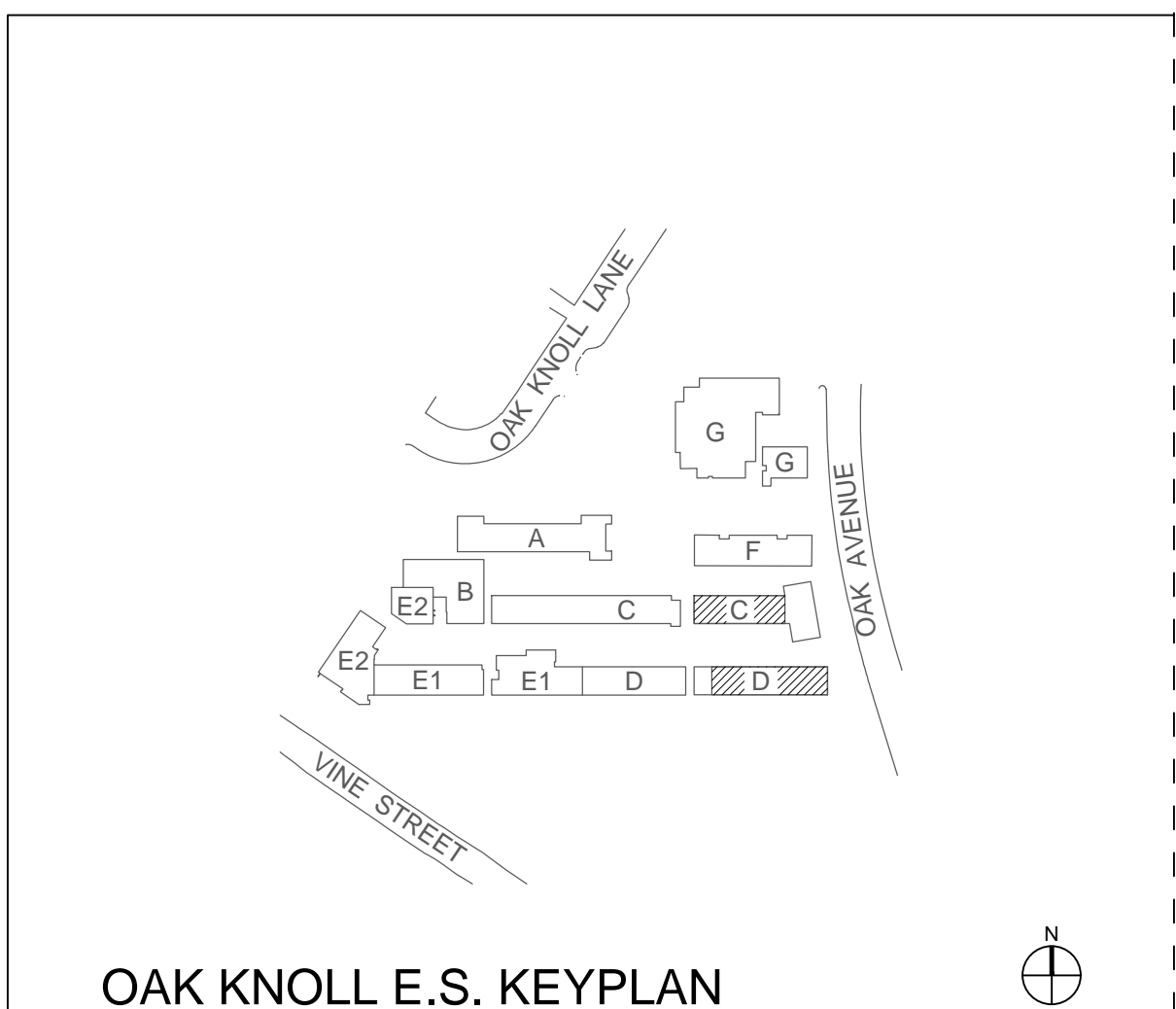


2 PENDANT LIGHT FIXTURE MOUNTING DETAIL
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE								
MARK	MANUFACTURERS MODEL NO.	LAMPS		TOTAL WATTS	VOLTS	MOUNTING	DESCRIPTION AND REMARKS	WEIGHT
		QTY.	TYPE					
A	FINELITE CAT #S12-LED-ID-DCO-CTO-8FT- 3E-V-V-3500K-91-277-SC-FA50- FE-C4	-	LED	74.8	120	PENDANT	DIRECT/INDIRECT LED LIGHT FIXTURE WITH 0-10 V DIMMING DRIVER	16 LBS
A1		-	-	-	-	-	SAME AS TYPE "A" EXCEPT WITH EMERGENCY BATTERY PACK	16 LBS



3 TWO ZONE CLASSROOM DIAGRAM
NOT TO SCALE



OAK KNOLL E.S. KEYPLAN