

# SOLANO COMMUNITY COLLEGE VACAVILLE CENTER SOLANO COMMUNITY DISTRICT

2001 N VILLAGE PKWY  
VACAVILLE, CA 95688

ARCHITECTS  
**WLC**  
CLIENT FOCUSED • PASSION DRIVEN

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SOLANO COMMUNITY  
COLLEGE DISTRICT  
VACAVILLE CENTER  
2001 N VILLAGE PKWY  
VACAVILLE, CA 95688

## GENERAL NOTES

- THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
- THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF WLC ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WLC ARCHITECTS, INC.
- THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, WLC ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS WLC ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.
- EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.
- PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.
- NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):  
  
THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

- INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
  - ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.
  - ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
- INSPECTOR OF RECORD REQUIREMENTS
    - ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTORS DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.
    - INSPECTOR SHALL BE CERTIFIED AS A CLASS [1] [2] [3] [4] INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.

## GOVERNING CODE

2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2013 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2

2013 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3

2013 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4

2013 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5

2013 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2013 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9

2013 CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10

2013 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA), 2013 ADA STANDARDS FOR ACCESSIBLE DESIGN

APPLICABLE NFPA STANDARDS  
 NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS, 2013 EDITION  
 NFPA 14 - STANDPIPE SYSTEMS, 2013 EDITION  
 NFPA 17 - DRY CHEMICAL EXTINGUISHING SYSTEMS, 2013 EDITION  
 NFPA 17A - WET CHEMICAL SYSTEMS, 2013 EDITION  
 NFPA 20 - STATIONARY PUMPS, 2013 EDITION  
 NFPA 24 - PRIVATE FIRE MAINS, 2013 EDITION  
 NFPA 72 - NATIONAL FIRE ALARM CODE, 2013 EDITION  
 NFPA 253 - CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2006 EDITION

**CCC CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION & DEMOLITION.**  
 NFPA 2001 - CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2012 EDITION

NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE CBC TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA STANDARDS.

ALL FOOD SERVICE EQUIPMENT SHALL MEET AND BE INSTALLED PER THE REQUIREMENT OF CALIFORNIA HEALTH AND SAFETY CODE DIVISION 22 AND ALL LOCAL CODES AND ORDINANCES

TITLE 8 CCR CHAPTER 4 SUBCHAPTER 6 ELEVATOR SAFETY ORDERS

ASME A18.1-2003 SAFETY STANDARD FOR PLATFORM LIFTS

## SCOPE OF WORK

THE SCOPE OF THE WORK AS STATED BELOW IS FOR DSA PLAN REVIEW PURPOSES ONLY AND DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

ALTERATIONS TO 1-EDUCATION CENTER/HVAC UPGRADE

## PROJECT TEAM

### PROJECT ADDRESS

SOLANO COMMUNITY COLLEGE VACAVILLE CENTER  
2001 N VILLAGE PKWY  
VACAVILLE, CA 95688  
PHONE: 707-863-7872

### OWNER

SOLANO COMMUNITY COLLEGE  
4000 SUISUN VALLEY RD  
FAIRFIELD, CA 94534  
PHONE: 707-864-7154

### ARCHITECT

WLC ARCHITECTS, INC.  
2600 TENTH STREET, SUITE 500  
BERKELEY, CA 94710  
PHONE: 510-450-1999

### STRUCTURAL ENGINEER

BASE DESIGN  
582 MARKET ST. STE 1402  
SAN FRANCISCO, CA 94104  
PHONE: 415-466-2997

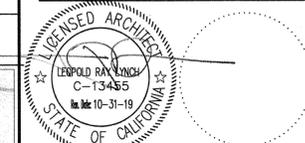
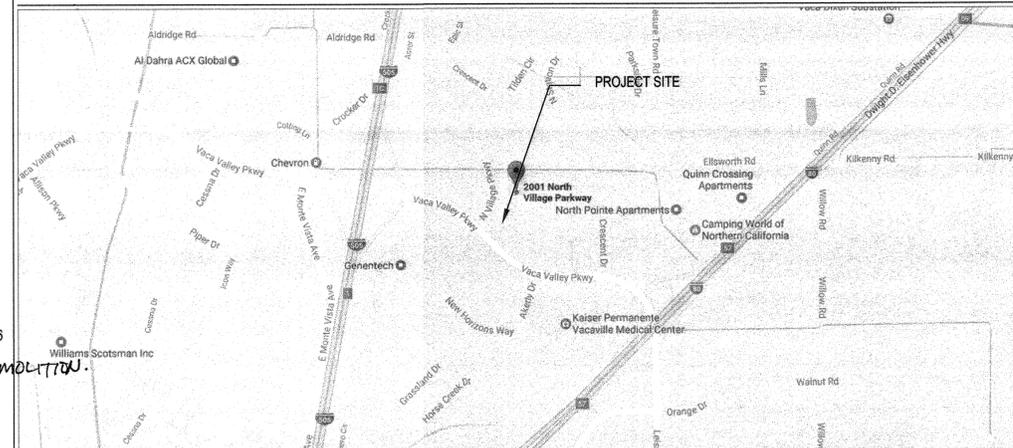
### MECHANICAL ENGINEER

EDESIGNC INC.  
212 9TH STREET  
OAKLAND, CA 94607  
PHONE: 510-943-0913

### ELECTRICAL ENGINEER

EDESIGNC INC.  
212 9TH STREET  
OAKLAND, CA 94607  
PHONE: 510-943-0913

## VICINITY MAP



## STATEMENT OF GENERAL CONFORMANCE

APPLICATION # 02-115703

\*THE DRAWINGS LISTED HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONAL OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR:

- THE DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.
- COORDINATION WITH MY PLANS AND SPECIFICATIONS AND ACCEPTANCE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENTS OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTION 17302 AND 91139 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344 OF TITLE 24, PART 1, (TITLE 24 PART 1, SECTION 4-4-317 (b))

I CERTIFY THAT ALL DRAWINGS LISTED ON THE DRAWING SHEET INDEX

- IS/ARE IN GENERAL CONFORMANCE AND
- HAVE BEEN COORDINATED

SIGNATURE: *Leopold Ray Lynch*  
 ARCHITECT OR ENGINEER DESIGNATED TO BE RESPONSIBLE CHARGE  
 PRINT NAME: Leopold Ray Lynch  
 LICENSE NUMBER: C-13455  
 EXPIRATION: 10/31/19

DATE: 11/02/2017

### CONSULTANT

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 OFFICE OF REGULATION SERVICES  
 APPL 02-115703  
 FILE: 48-C1  
 DATE: 11/02/17

NO	DATE	BY	DESCRIPTION
1	11-03-17		DSA BACK CHECK

DRAWN: [ ] CHECKED: [ ]  
 DATE: 03/21/2017 SCALE: [ ]  
 PROJECT NUMBER: 1715900

## GENERAL NOTES & PROJECT DIRECTORY

DRAWING NUMBER: **A0.1**

# DRAWING INDEX

DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION
	<b>ARCHITECTURAL</b>		<b>STRUCTURAL</b>		<b>ELECTRICAL</b>
A0.1	GENERAL NOTES / PROJECT DIRECTORY	S1.1	GENERAL NOTES AND ABBREVIATIONS	E0.01	ELECTRICAL TITLE SHEET
A0.2	DRAWING INDEX	S2.1	VACAVILLE EDUCATION NORTH ROOF FRAMING PLAN	E0.02	EQUIPMENT CONNECTION SCHEDULE
A0.3	DRAFTING SYMBOLS AND MATERIAL INDICATIONS	S2.2	VACAVILLE EDUCATION SOUTH ROOF FRAMING PLAN	E1.10	ELECTRICAL FIRST FLOOR DEMO PLAN - NORTH
A0.4	ARCHITECTURAL DRAWING ABBREVIATIONS	S3.1	ENLARGED FRAMING PLANS	E1.11	ELECTRICAL FIRST FLOOR DEMO PLAN - SOUTH
A1.1	OVERALL SITE PLAN	S3.2	ENLARGED FRAMING PLANS	E1.12	ELECTRICAL SECOND FLOOR DEMO PLAN - NORTH
A3.1	1ST FLOOR NORTH REFLECTED CEILING DEMOLITION PLAN	S3.3	ENLARGED FRAMING PLANS	E1.13	ELECTRICAL SECOND FLOOR DEMO PLAN - SOUTH
A3.2	1ST FLOOR SOUTH REFLECTED CEILING DEMOLITION PLAN	S8.1	TYPICAL WOOD DETAILS	E1.14	ELECTRICAL ROOF DEMO PLAN - NORTH
A3.3	2ND FLOOR NORTH REFLECTED CEILING DEMOLITION PLAN			E1.15	ELECTRICAL ROOF DEMO PLAN - SOUTH
A3.4	2ND FLOOR SOUTH REFLECTED CEILING DEMOLITION PLAN			E2.10	ELECTRICAL FIRST FLOOR PLAN - NORTH
A3.5	1ST FLOOR NORTH REFLECTED CEILING PLAN		<b>MECHANICAL</b>	E2.11	ELECTRICAL FIRST FLOOR PLAN - SOUTH
A3.6	1ST FLOOR SOUTH REFLECTED CEILING PLAN	M0.01	MECHANICAL SCHEDULES NOTES AND LEGEND	E2.13	ELECTRICAL SECOND FLOOR PLAN - SOUTH
A3.7	2ND FLOOR NORTH REFLECTED CEILING PLAN	M0.02	MECHANICAL DETAILS	E2.14	ELECTRICAL ROOF PLAN - NORTH
A3.8	2ND FLOOR SOUTH REFLECTED CEILING PLAN	M1.10	FIRST FLOOR NORTH MECHANICAL DEMOLITION PLAN	E2.15	ELECTRICAL ROOF PLAN - SOUTH
A4.1	ROOF NORTH DEMOLITION PLAN	M1.11	FIRST FLOOR SOUTH MECHANICAL DEMOLITION PLAN	E10.01	ELECTRICAL PANEL SCHEDULE
A4.2	ROOF SOUTH DEMOLITION PLAN	M1.12	SECOND FLOOR NORTH MECHANICAL DEMOLITION PLAN	E10.02	ELECTRICAL PANEL SCHEDULE
A4.3	ROOF NORTH PROPOSED PLAN	M1.13	SECOND FLOOR SOUTH MECHANICAL DEMOLITION PLAN		
A4.4	ROOF SOUTH PROPOSED PLAN	M1.14	ROOF NORTH MECHANICAL DEMOLITION PLAN		
A7.1	ROOF DETAILS	M1.15	ROOF SOUTH MECHANICAL DEMOLITION PLAN		
		M2.10	FIRST FLOOR NORTH MECHANICAL DUCTWORK PLAN		T24 ENERGY COMPLIANCE
		M2.11	FIRST FLOOR SOUTH MECHANICAL DUCTWORK PLAN	T24.1	MECHANICAL SCHEDULES, NOTES AND LEGEND
		M2.12	SECOND FLOOR NORTH MECHANICAL DUCKWORK PLAN	T24.2	MECHANICAL SCHEDULES, NOTES AND LEGEND
		M2.13	SECOND FLOOR SOUTH MECHANICAL DUCKWORK PLAN	T24.3	MECHANICAL SCHEDULES, NOTES AND LEGEND
		M2.14	ROOF MECHANICAL PROPOSED PLAN	T24.4	MECHANICAL SCHEDULES, NOTES AND LEGEND
		M2.15	ROOF SOUTH MECHANICAL PROPOSED PLAN	T24.5	MECHANICAL SCHEDULES, NOTES AND LEGEND
		M3.10	FIRST FLOOR NORTH MECHANICAL HYDRONIC PLAN	T24.6	MECHANICAL SCHEDULES, NOTES AND LEGEND
		M3.11	FIRST FLOOR SOUTH MECHANICAL HYDRONIC PLAN	T24.7	MECHANICAL SCHEDULES, NOTES AND LEGEND
		M3.12	SECOND FLOOR NORTH MECHANICAL HYDRONIC PLAN	T24.8	MECHANICAL SCHEDULES, NOTES AND LEGEND
		M3.13	SECOND FLOOR SOUTH MECHANICAL HYDRONIC PLAN	T24.9	MECHANICAL SCHEDULES, NOTES AND LEGEND

# DRAWING INDEX CODE

## DRAWING DISCIPLINE PREFIX INDEX

- A. ARCHITECTURAL
- C. CIVIL
- D. INTERIOR DESIGN / FURNITURE
- E. ELECTRICAL
- F. FIRE PROTECTION / SPRINKLER SYSTEM
- G. GRAPHICS
- H. HAZARDOUS MATERIALS
- K. DIETARY / FOOD SERVICE
- L. LANDSCAPING
- M. MECHANICAL
- P. PLUMBING
- S. STRUCTURAL
- T. TELECOMMUNICATIONS

## DRAWING GROUP PREFIX INDEX

- 0. GENERAL INFORMATION
- 1. SITE PLANS
- 2. FLOOR PLANS
- 3. REFLECTED CEILING PLANS
- 4. ROOF PLANS
- 5. EXTERIOR ELEVATIONS / SECTIONS
- 6. ENLARGED FLOOR PLANS
- 7. INTERIOR ELEVATIONS
- 8. CIRCULATION / STAIRS / ELEVATORS
- 9. 3D REPRESENTATIONS

## DRAWING NUMBER CODE

**AH2.2**



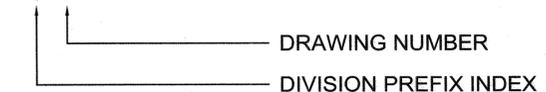
DISCIPLINE OR DRAWING GROUPS NOT INDICATED IN DRAWING INDEX ARE NOT APPLICABLE OR ARE INCLUDED IN THE 16 DIVISIONAL GROUPING OF THE DETAIL DRAWINGS. BUILDING IDENTITY DESIGNATIONS MAY OR MAY NOT BE UTILIZED. REFER TO KEY PLANS AND DRAWING INDEX FOR APPLICATION OF BUILDING DESIGNATIONS. THE DISCIPLINE AND DRAWING GROUPS ARE INTEGRAL WITH THE DETAIL DRAWINGS AND ARE NOT COMPLETE IN THEMSELVES. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.

## DETAIL DRAWING PREFIX INDEX

- DIVISION 1 - GENERAL REQUIREMENTS
- DIVISION 2 - SITE WORK
- DIVISION 3 - CONCRETE
- DIVISION 4 - MASONRY
- DIVISION 5 - METALS
- DIVISION 6 - WOOD AND PLASTICS
- DIVISION 7 - THERMAL AND MOISTURE PROTECTION
- DIVISION 8 - DOORS AND WINDOWS
- DIVISION 9 - FINISHES
- DIVISION 10 - SPECIALTIES
- DIVISION 11 - EQUIPMENT
- DIVISION 12 - FURNISHINGS
- DIVISION 13 - SPECIAL CONSTRUCTION
- DIVISION 14 - CONVEYING SYSTEMS
- DIVISION 15 - MECHANICAL
- DIVISION 16 - ELECTRICAL

## DETAIL DRAWING CODE

**8.4**

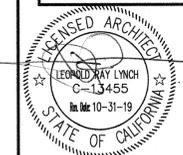


THE DIVISION PREFIX NUMBERS ARE THOSE IDENTIFIED BY THE 16 DIVISION GROUPING SYSTEM OF MASTER FORMAT AS PUBLISHED BY THE CONSTRUCTION SPECIFICATION INSTITUTE (CSI) AND SHALL NOT BE SOLELY REPRESENTATIVE OF REQUIREMENTS FOR ANY ONE DIVISION. THOSE DIVISIONS NOTED AS BEING OMITTED ARE NOT APPLICABLE OR ARE INCLUDED UNDER DISCIPLINE DRAWINGS. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.

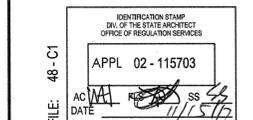


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CONSULTANT



△	01-03-17	DSA BACK CHECK	
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NO	DATE	BY	DESCRIPTION
REVISIONS			

DRAWN: WLC      CHECKED: WLC  
 DATE: 03/21/2017      SCALE:  
 PROJECT NUMBER: 1715900

**DRAWING INDEX**

DRAWING NUMBER: **A0.2**

# DRAFTING SYMBOL LEGEND

**NEW / REQUIRED POINT ELEVATION (PLAN)**  
 3 = REVISION NUMBER

**EXISTING POINT ELEVATION (PLAN)**  
 123 = EQUIPMENT NUMBER

**SURFACE DRAINAGE**  
 ARROW INDICATES DIRECTION OF FLOW

**SITE REFERENCE GRID**  
 WORK POINT COORDINATES

**PROJECT NORTH**  
 PROJECT NORTH

**COLUMN REFERENCE GRIDS**  
 B, 2.3 = COLUMN DESIGNATION

**ELEVATION**  
 4 = ELEVATION DESIGNATION  
 A5.1 = REFERENCE DRAWING NUMBER  
 ARROW INDICATES DIRECTION OF VIEW

**BUILDING SECTION**  
 C = SECTION DESIGNATION  
 A5.2 = REFERENCE DRAWING NUMBER  
 ARROW INDICATES DIRECTION OF VIEW

**WALL SECTION**  
 E = SECTION DESIGNATION  
 A5.3 = REFERENCE DRAWING NUMBER  
 ARROW INDICATES DIRECTION OF VIEW

**DETAIL**  
 10 = DETAIL DESIGNATION  
 8.3 = REFERENCE DRAWING NUMBER

**AREA IDENTITY/ CODE ANALYSIS**  
 LOBBY  

E1	6
900	
45	*

 LOBBY = ROOM NAME  
 E1 = OCCUPANCY GROUP  
 6 = SPACE USE - REF SPACE USE SCHEDULE  
 900 = FLOOR AREA - SQUARE FEET  
 45 = OCCUPANT LOAD ( CBC TABLE 10-A )  
 \* = OCCUPANT LOAD SIGN REQUIRED WHEN NOTED - ( CBC SEC 1002.3 )  
 REF SIGNAGE SCHEDULE

**AREA IDENTITY & FINISH REFERENCE/ PLAN**  
 LOBBY  

A230		
9/A7.6		
A1	B2	C3
10-0	D4	

 LOBBY = ROOM NAME  
 A230 = AREA IDENTITY  
 A - BUILDING OR AREA DESIGNATION  
 2 - FLOOR NUMBER  
 30 - ROOM NUMBER  
 9/A7.6 = INTERIOR ELEVATION DESIGNATION AND DRAWING NUMBER WHERE ELEVATION IS SHOWN  
 A1, B2, C3, D4 = ROOM MATERIAL CODE/ FINISH  
 A1 = FLOOR AND BASE FINISH  
 B2 = WALL MATERIAL / FINISH  
 C3 = CEILING MATERIAL / FINISH  
 D4 = WAINSCOT MATERIAL / HEIGHT  
 \* = DESIGNATES SPECIAL CONDITION, REFERENCE INTERIOR ELEVATION OR REFLECTED CEILING PLAN FOR DESCRIPTION  
 10-0 = CEILING HEIGHT IN FEET & INCHES  
 1,2,3, OR 4 = ELEVATION IDENTITY NUMBER- NUMBER POINTS TO WALL SHOWN IN ELEVATION

**REVISION**  
 3 = REVISION NUMBER

**EQUIPMENT IDENTIFICATION**  
 123 = EQUIPMENT NUMBER

**GLAZED OPENING OR WINDOW TYPE**  
 NUMERICAL DESIGNATION = GLAZED OPENING  
 ALPHABETICAL DESIGNATION = WINDOW TYPE

**DOOR IDENTIFICATION**  
 A = BUILDING DESIGNATION  
 2 = FLOOR NUMBER  
 50 = DOOR NUMBER

**REFERENCE NOTE IDENTIFICATION**  
 0654 = DIVISIONAL PREFIX  
 54 = NOTE NUMBER

**WALL IDENTIFICATION**  
 C = WALL TYPE DESIGNATION - REF SCHEDULE  
 4 = NOMINAL STUD OR MASONRY SIZE  
 2 = FIRE RATING IN HOURS  
 B = ADDITIONAL REMARKS - REF SCHEDULE  
 \* = OPTIONAL CHARACTER

**TOILET ACCESSORY IDENTIFICATION**  
 3 = ACCESSORY NUMBER - REF SCHEDULE  
 A = ACCESSIBLE WHEN NOTED

**CABINET DESIGNATION**  
 100 M L  
 100 = WI CABINET NUMBER  
 M = MODIFIED AS NOTED  
 L = LOCK WHEN NOTED

**LEVEL LINE, CONTROL POINT**  
 FFE 0'-0"  
 UP 12R AT 6"  
 12T AT 11"

**STAIR DIRECTION SYMBOL**  
 NUMBER AND SIZE OF TREADS AND RISERS IN INCHES

**MATCH LINE AND AREA DESIGNATOR**  
 SHADED PORTION IS THE SIDE CONSIDERED

**CENTER LINES, FLOOR LINES AND LEVEL LINES**

**SECTION LINES**

**PROPERTY LINES, BOUNDRY LINES AND MATCH LINES**

**HIDDEN CONSTRUCTION FEATURE**

**BREAKS OF BUILDING COMPONENTS**

**AREA IDENTITY/ PLAN**  
 LOBBY = ROOM NAME  
 A230 = AREA IDENTITY  
 A - BUILDING OR AREA DESIGNATION  
 2 - FLOOR NUMBER  
 30 - ROOM NUMBER  
 9/A7.6 = INTERIOR ELEVATION DESIGNATION AND DRAWING NUMBER WHERE ELEVATION IS SHOWN  
 1,2,3, OR 4 = ELEVATION IDENTITY NUMBER- NUMBER POINTS TO WALL SHOWN IN ELEVATION

# MATERIALS INDICATION LEGEND

**PLAN / SECTION**

**EARTH**

**POROUS FILL (STONE, GRAVEL, ETC.)**

**ROCK**

**ASPHALT PAVING**

**CAST-IN-PLACE CONCRETE (OR CONCRETE FILL)**

**PRECAST CONCRETE (GLASS FIBER REINFORCED CONCRETE)**

**CEMENTITIOUS DECKS & TOPPING (GYPSUM, INSULATING CONCRETE)**

**BRICK (COMMON OR FACE, LARGE SCALE)**

**GLAZED BRICK**

**FIRE BRICK**

**CONCRETE MASONRY UNITS (CMU, LARGE SCALE CONCRETE BLOCK)**

**GLAZED CONCRETE MASONRY UNITS**

**GLASS UNIT MASONRY**

**GROUT**

**CUT STONE (MARBLE, GRANITE, LIMESTONE)**

**CAST STONE**

**SLATE, SOAPSTONE, FLAGGING**

**STRUCTURAL CLAY TILE**

**GLAZED STRUCTURAL CLAY TILE**

**ALUMINUM (LARGE SCALE)**

**STEEL (LARGE SCALE)**

**ORNAMENTAL METAL (BRASS, BRONZE)**

**METAL (SMALL SCALE, STRUCTURAL OR SHEET)**

**PARTICLE BOARD**

**PLYWOOD (LARGE SCALE)**

**WOOD FINISHED**

**WOOD ROUGH/CONTINUOUS (2 X 10 - SIZE NOTED)**

**WOOD ROUGH/BLOCKING (2 X 10 - SIZE NOTED)**

**INSULATION (LOOSE OR BATT)**

**INSULATION (RIGID)**

**GLASS (LARGE SCALE)**

**ELEVATION**

**ACOUSTICAL TILE**

**CERAMIC TILE**

**GYPSUM BOARD**

**SAND, CEMENT, ETC.**

**METAL LATH AND PLASTER**

**RESILIENT FLOORING**

**CARPET**

**TERRAZZO**

**CONCRETE, PLASTER, GYPSUM BOARD**

**MARBLE, FIELD STONE**

**MASONRY (BRICK OR CMU)**

**GLAZING (CLEAR, TEMPERED, ETC.)**

**GLAZING (WIRE, LABELED)**

**SHEET METAL**

**CERAMIC TILE**

# WALL MATERIALS LEGEND

**PLAN**

**EXISTING WALL TO BE REMOVED**

**EXISTING WALL TO REMAIN**

**STUD WALL - REF SCHEDULE FOR STUD TYPE, SIZE AND SPACING**

**BRICK MASONRY WALL - REF SCHEDULE FOR SIZE**

**CONCRETE MASONRY WALL (CMU) - REF SCHEDULE FOR TYPE AND SIZE**

**COMPOSITE MASONRY WALL - REF SCHEDULE FOR MASONRY TYPES AND SIZES**

**COMPOSITE VENEER WALL - REF SCHEDULE FOR MASONRY AND STUD TYPE, SIZE AND SPACING**

**SHAFT WALL - REF SCHEDULE FOR STUD TYPE, SIZE AND SPACING**

**SOUND RATED WALL - REF SCHEDULE FOR WALL MATERIALS**

**CONCRETE WALL - REF SCHEDULE FOR SIZE**

**ONE HOUR FIRE RATED WALL - REF PLAN AND SCHEDULE FOR WALL MATERIALS AND CBC/UL/GA LISTING**

**TWO HOUR FIRE RATED WALL - REF PLAN AND SCHEDULE FOR WALL MATERIALS AND CBC/UL/GA LISTING**

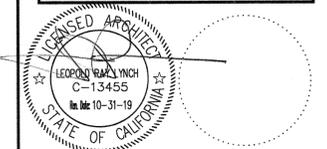
- GENERAL NOTES:**
- REFER TO FINISH SCHEDULE FOR WALL FINISHES
  - REFER TO WALL TYPE SCHEDULE FOR WALL DETAILS AND MATERIALS OF CONSTRUCTION
  - ALL WALL DEFINITIONS MAY NOT BE USED, REFER TO FLOOR PLAN(S) FOR APPLICABLE WALL DEFINITIONS USED.



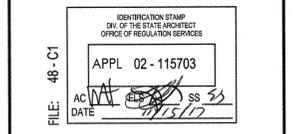
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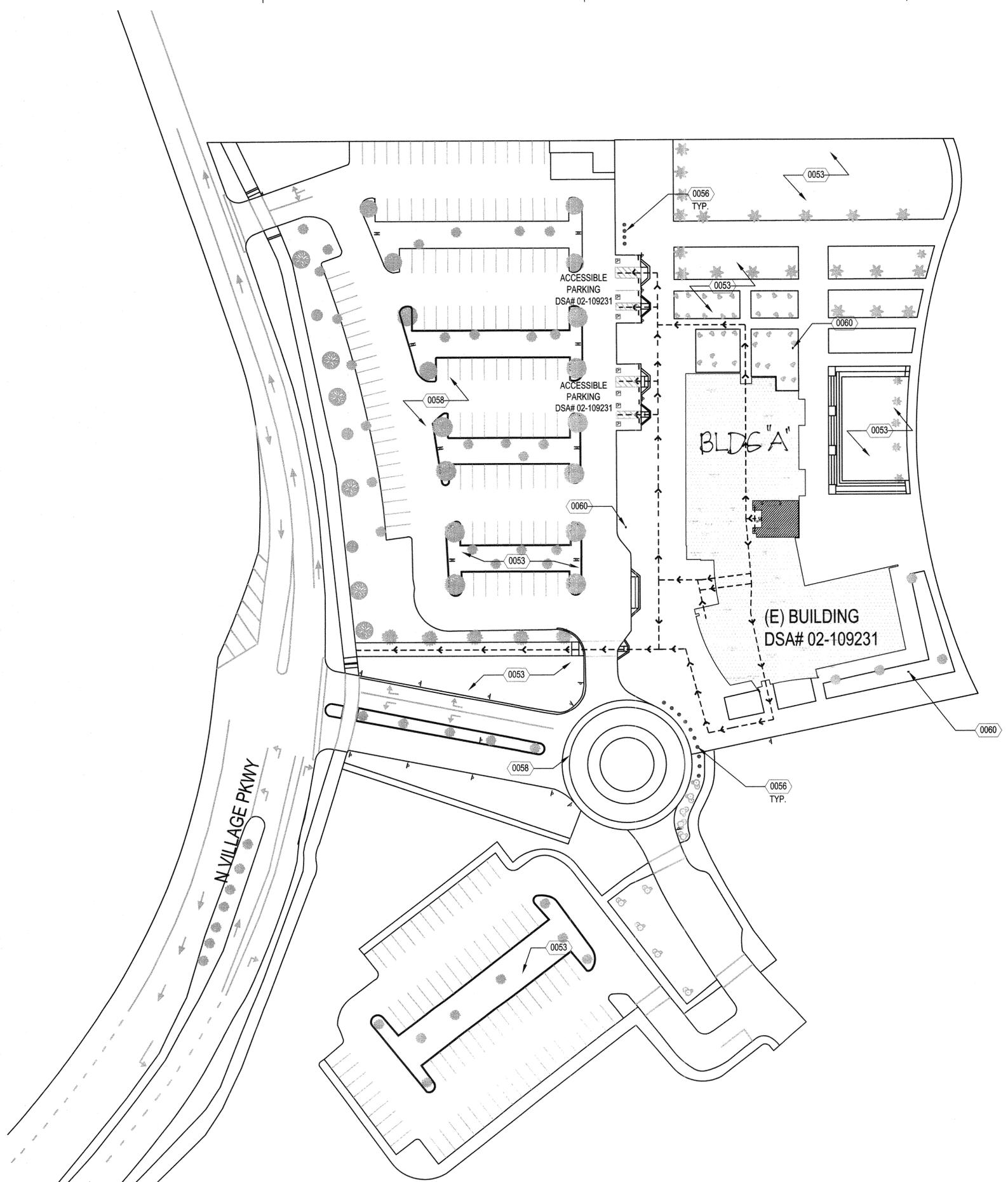
REVISIONS

**DRAWN:** \_\_\_\_\_ **CHECKED:** \_\_\_\_\_  
**DATE:** 03/21/2017 **SCALE:** \_\_\_\_\_  
**PROJECT NUMBER:** 1715900

**DRAFTING SYMBOLS AND MAT INDICATORS**

**DRAWING NUMBER: A0.3**





**GENERAL NOTES**

- BUILDING LOCATIONS ON SITE ARE APPROXIMATE BASED ON DRAWINGS FROM OWNER.
- ACCESSIBLE ROUTE OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 6% UNLESS OTHERWISE INDICATED. "PASSING SPACES", AT LEAST 60"x60", ARE TO BE LOCATED NO MORE THAN 200' APART. PARTS OF THE ACCESSIBLE PATH OF TRAVEL WITH A CONTINUOUS GRADIENT WITH A 60' LONG LEVEL AREAS ARE NOT TO BE MORE THAN 400' APART. ACCESSIBLE ROUTE OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE ROUTE OF TRAVEL.
- FIRE DEPARTMENT ACCESS MUST BE MAINTAINED TO ALL PORTIONS OF THE SITE DURING CONSTRUCTION. ALL SHUTDOWN OF THE EGRESS LANES MUST BE COORDINATED WITH AND APPROVED BY THE ARCHITECT AND OWNER A MINIMUM OF 72 HOURS PRIOR TO CLOSING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING BUILDING AND LANDSCAPE, INCLUDING (BUT NOT LIMITED TO) ROOFS, WALLS, FLOORS, SITE EQUIPMENT, AND SITE SIGNAGE THROUGH THE DURATION OF THE PROJECT.

**LEGEND**

- ACCESSIBLE PATH OF TRAVEL (P.O.T.)
- EXISTING BUILDING DSA# 02-109231
- EXISTING ACCESSIBLE PARKING DSA# 02-109231

**REFERENCE NOTES**

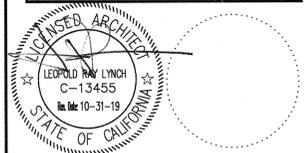
- 0053 (E) LANDSCAPING TO REMAIN
- 0056 (E) REMOVABLE BOLLARDS
- 0058 (E) ASPHALT PAVING TO REMAIN
- 0060 (E) FIRE HYDRANT

"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:  
 THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCOMFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

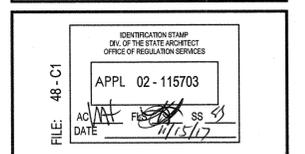


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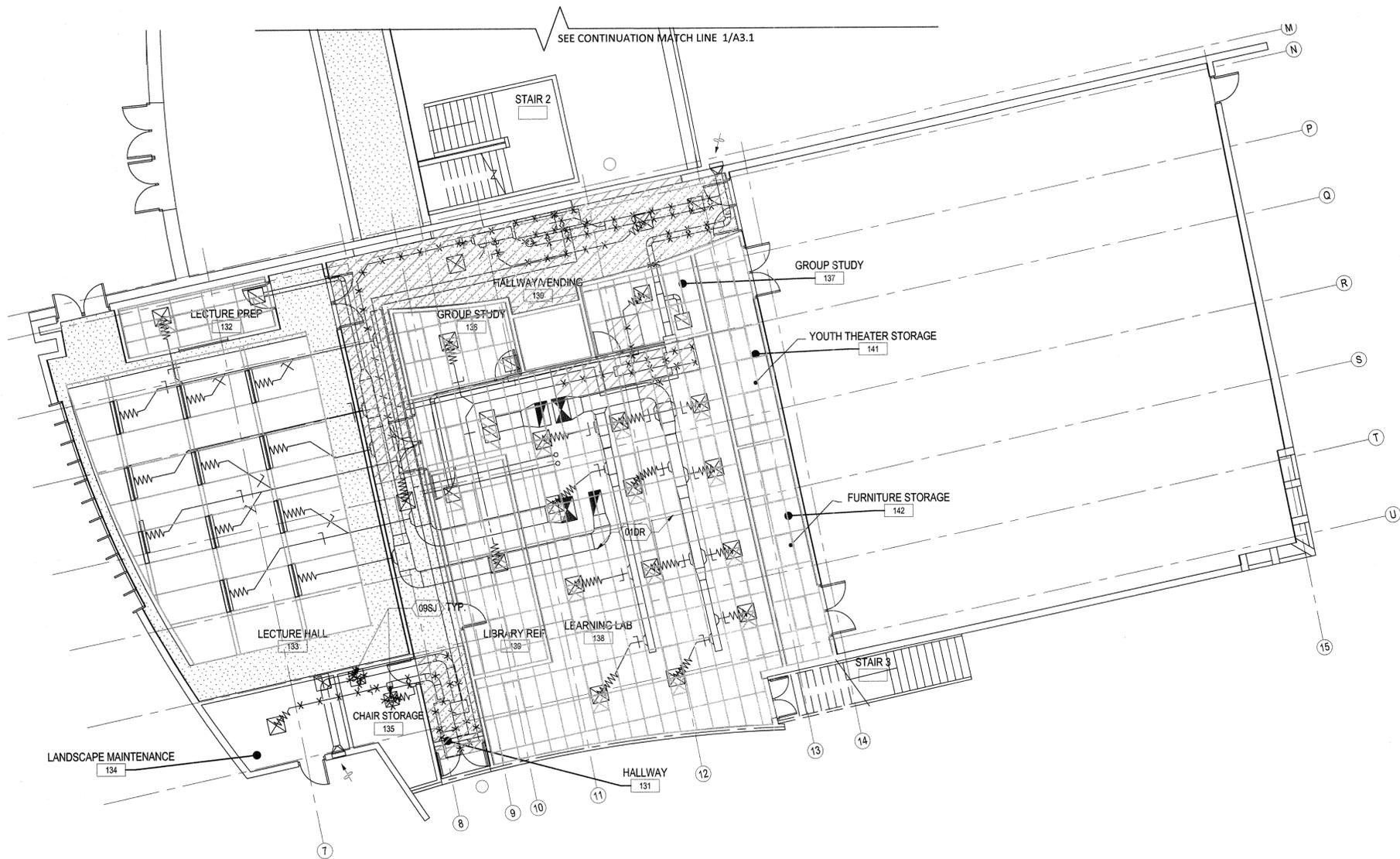
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DRAWN: VP CHECKED: EB  
 DATE: 03/21/2017 SCALE: AS SHOWN  
 PROJECT NUMBER: 1715900

**OVERALL  
 SITE PLAN**

DRAWING NUMBER: **A1.1**





**GENERAL NOTES**

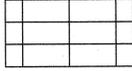
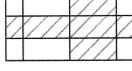
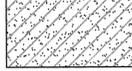
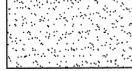
- NOTES:**
1. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  3. PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

- REFLECTED CEILING PLAN NOTES:**
1. REFER TO MECHANICAL FOR ADDITIONAL EQUIPMENT INFORMATION.

**SHEET NOTES**

1. REPLACE SELECTED CEILING REPLACEMENT PANELS AFFECTED BY THE INSTALLATION OF NEW DUCT. DO NOT REMOVE OR REPLACE MAIN RUNNER OR CROSS-RUNNERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT & DSA.

**LEGEND:**

-  (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
-  (E) ACOUSTIC CEILING TILES TO BE REMOVED AND RETURNED AFTER DUCKWORK INSTALLED.
-  (E) GYPSUM BOARD CEILING TO BE REMOVE & REPLACE AFTER INSTALLATION OF (N) DUCK WORK.
-  (E) GYPSUM BOARD CEILING
-  (E) MECHANICAL SUPPLY DIFFUSER TO BE REMOVE.
-  (E) MECHANICAL RETURN DIFFUSER TO BE REMOVE.

**REFERENCE NOTES**

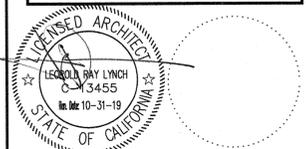
-  (E) CEILING TO REMAIN
-  REMOVE (E) DIFFUSER, SEE MECH.DWGS.



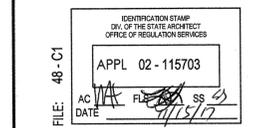
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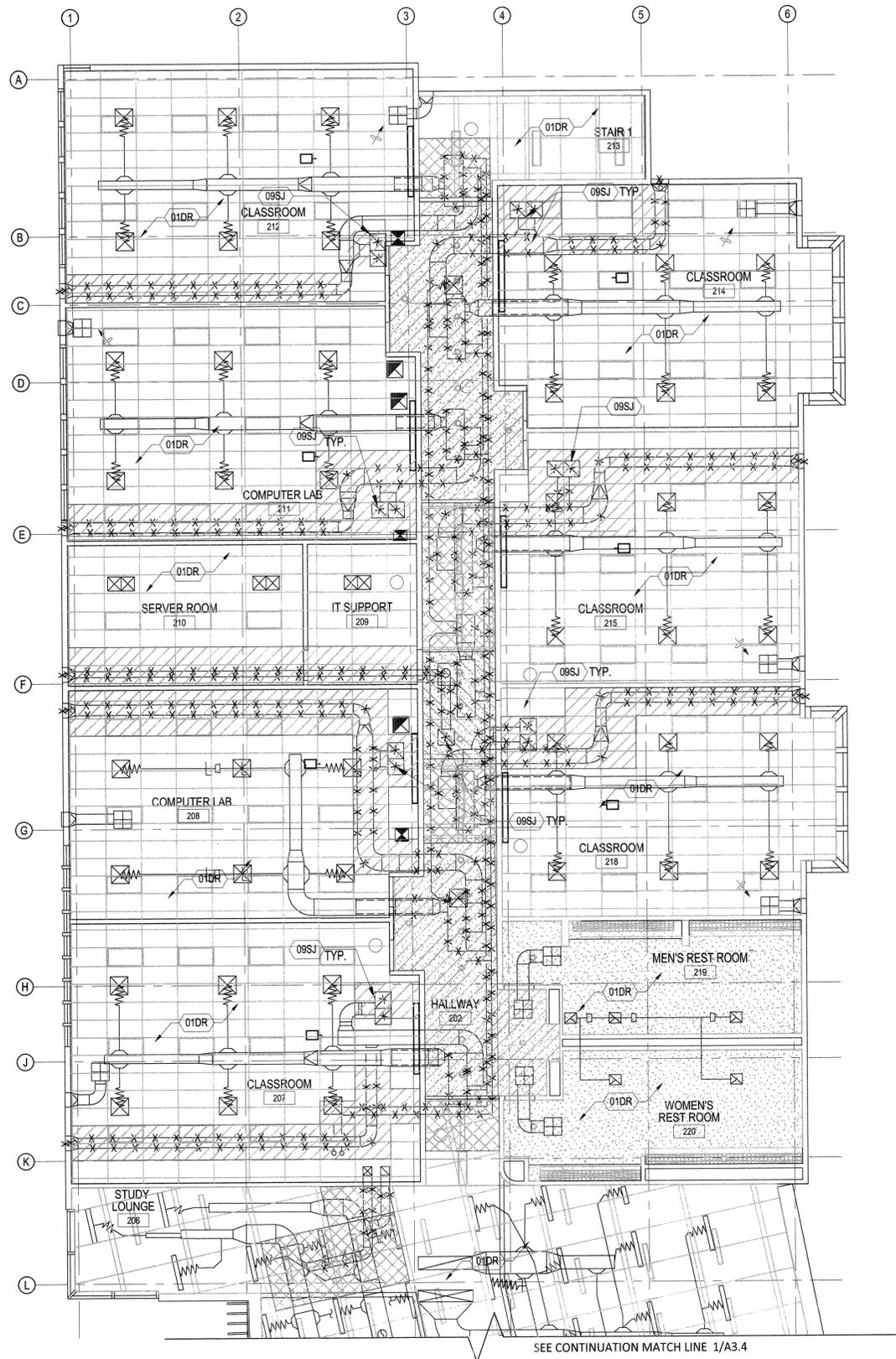


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 DATE: 03/21/2017    SCALE: AS SHOWN  
 PROJECT NUMBER: 1715900

**1ST FLOOR SOUTH  
 REFLECTED CEILING  
 DEMOLITION PLAN**

DRAWING NUMBER: **A3.2**



SEE CONTINUATION MATCH LINE 1/A3.4



**GENERAL NOTES**

- NOTES:**
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  - PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

- REFLECTED CEILING PLAN NOTES:**
- REFER TO MECHANICAL FOR ADDITIONAL EQUIPMENT INFORMATION.

**SHEET NOTES**

- REPLACE SELECTED CEILING REPLACEMENT PANELS AFFECTED BY THE INSTALLATION OF NEW DUCT. DO NOT REMOVE OR REPLACE MAIN RUNNER OR CROSS-RUNNERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT & DSA.

**LEGEND:**

- (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
- (E) ACOUSTIC CEILING TILES TO BE REMOVED AND RETURNED AFTER DUCKWORK INSTALLED.
- (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
- (E) ACOUSTIC CEILING TILES TO BE REMOVED AND RETURNED AFTER DUCKWORK INSTALLED.
- (E) GYPSUM BOARD CEILING TO BE REMOVE & REPLACE AFTER INSTALLATION OF (N) DUCK WORK.
- (E) GYPSUM BOARD CEILING
- (E) MECHANICAL SUPPLY DIFFUSER TO BE REMOVE.
- (E) MECHANICAL RETURN DIFFUSER TO BE REMOVE.

**REFERENCE NOTES**

- (E) CEILING TO REMAIN
- REMOVE (E) DIFFUSER, SEE MECH.DWGS.

**ARCHITECTS**

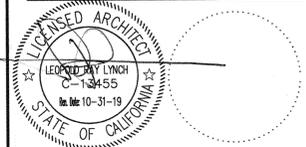
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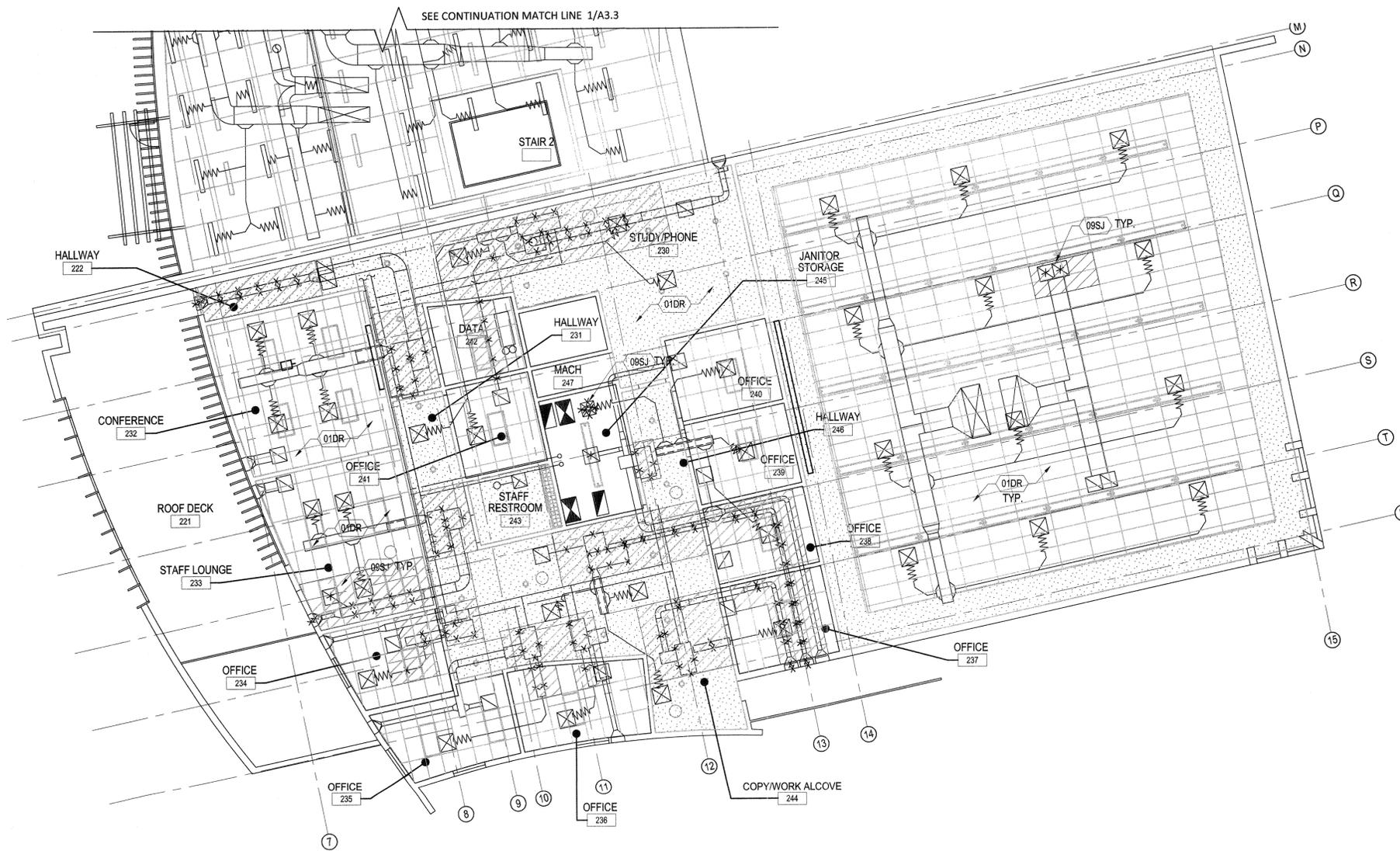
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DATE: 03/21/2017	SCALE: AS SHOWN
PROJECT NUMBER: 1715900	

**2ND FLOOR NORTH  
REFLECTED CEILING  
DEMOLITION PLAN**

DRAWING NUMBER: **A3.3**



**GENERAL NOTES**

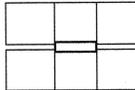
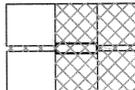
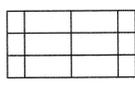
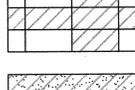
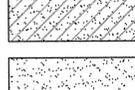
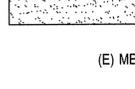
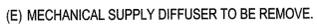
- NOTES:**
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  - PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

- REFLECTED CEILING PLAN NOTES:**
- REFER TO MECHANICAL FOR ADDITIONAL EQUIPMENT INFORMATION.

**SHEET NOTES**

- REPLACE SELECTED CEILING REPLACEMENT PANELS AFFECTED BY THE INSTALLATION OF NEW DUCT. DO NOT REMOVE OR REPLACE MAIN RUNNER OR CROSS-RUNNERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT & DSA.

**LEGEND:**

-  (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
-  (E) ACOUSTIC CEILING TILES TO BE REMOVED AND RETURNED AFTER DUCKWORK INSTALLED.
-  (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
-  (E) ACOUSTIC CEILING TILES TO BE REMOVED AND RETURNED AFTER DUCKWORK INSTALLED.
-  (E) GYPSUM BOARD CEILING TO BE REMOVE & REPLACE AFTER INSTALLATION OF (N) DUCK WORK.
-  (E) GYPSUM BOARD CEILING
-  (E) MECHANICAL SUPPLY DIFFUSER TO BE REMOVE.
-  (E) MECHANICAL RETURN DIFFUSER TO BE REMOVE.

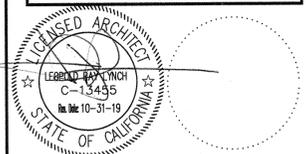
**REFERENCE NOTES**

- 01DR (E) CEILING TO REMAIN
- 09SJ REMOVE (E) DIFFUSER, SEE MECH.DWGS.

**ARCHITECTS**  
**WLC**  
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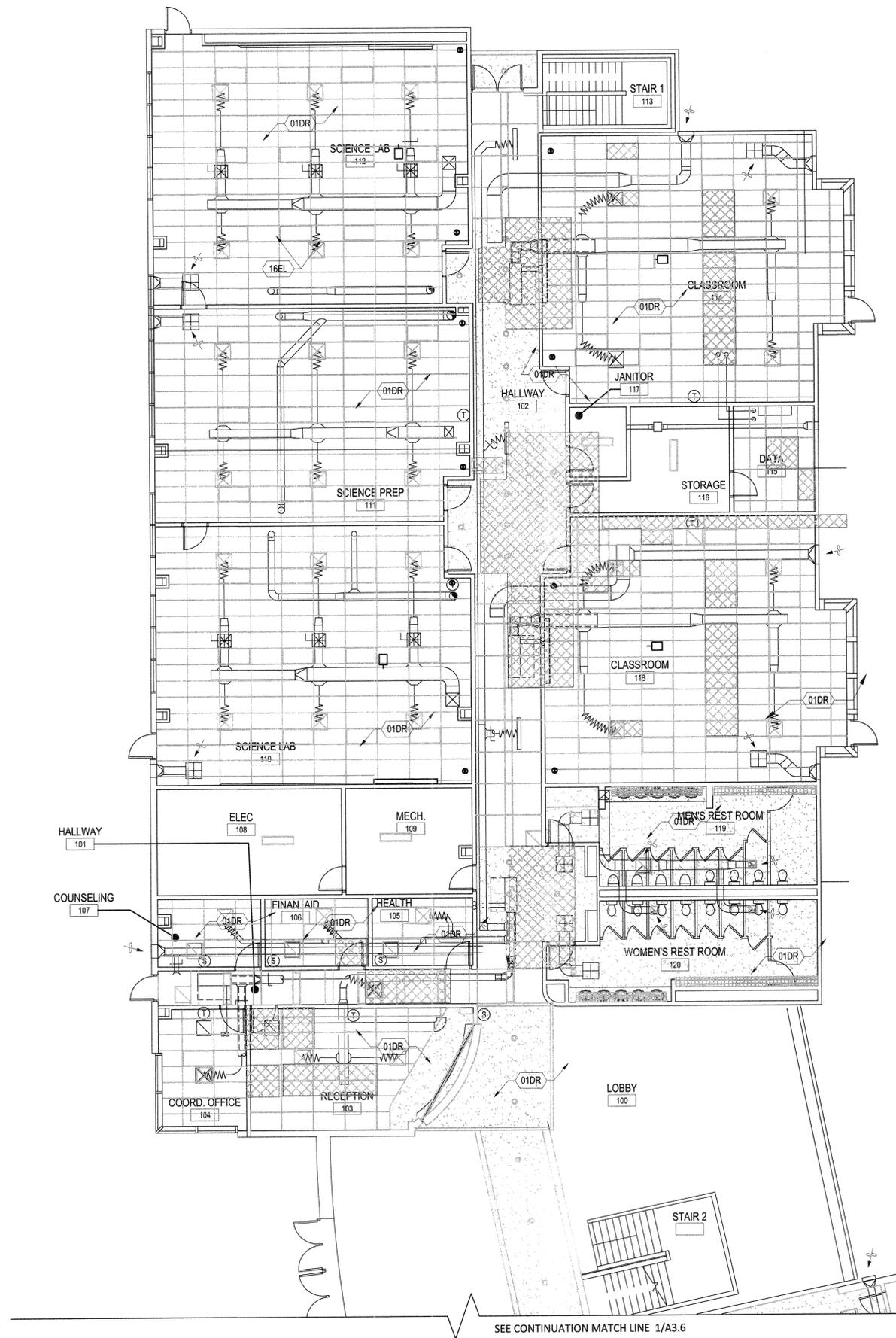
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DRAWN: EB      CHECKED: LRL  
 DATE: 03/21/2017      SCALE: AS SHOWN  
 PROJECT NUMBER: 1715900

**2ND FLOOR SOUTH REFLECTED CEILING DEMOLITION PLAN**

DRAWING NUMBER: **A3.4**



SEE CONTINUATION MATCH LINE 1/A3.6

**GENERAL NOTES**

- NOTES:**
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  - PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.
- REFLECTED CEILING PLAN NOTES:**
- REFER TO MECHANICAL FOR ADDITIONAL EQUIPMENT INFORMATION.

**SHEET NOTES**

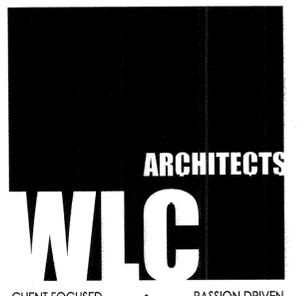
- REPLACE SELECTED CEILING REPLACEMENT PANELS AFFECTED BY THE INSTALLATION OF NEW DUCT. DO NOT REMOVE OR REPLACE MAIN RUNNER OR CROSS-RUNNERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT & DSA.

**LEGEND:**

-  (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
-  RE-INSTALL (E) ACOUSTIC CEILING TILES
-  (E) GYPSUM BOARD CEILING TO BE REMOVE & REPLACE AFTER INSTALLATION ON (N) DUCK WORK.
-  (E) GYPSUM BOARD CEILING
-  (N) MECHANICAL SUPPLY DIFFUSER, SMD
-  (N) MECHANICAL RETURN DIFFUSER, SMD

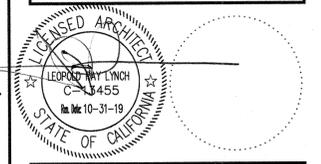
**REFERENCE NOTES**

-  (E) CEILING TO REMAIN
-  (N) EXHAUST FAN, (E) AIR REGISTER TO REMAIN S.M.D. & S.E.D.
-  (E) LIGHT FIXTURE TO REMAIN



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 DATE 1/13/17  
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 DATE: 03/21/2017      SCALE: AS SHOWN  
 PROJECT NUMBER: 1715900

**1ST FLOOR NORTH  
 REFLECTED  
 CEILING PLAN**

DRAWING NUMBER: **A3.5**

GENERAL NOTES

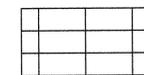
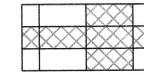
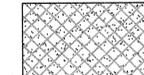
- NOTES:
1. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  3. PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

- REFLECTED CEILING PLAN NOTES:
1. REFER TO MECHANICAL FOR ADDITIONAL EQUIPMENT INFORMATION.

SHEET NOTES

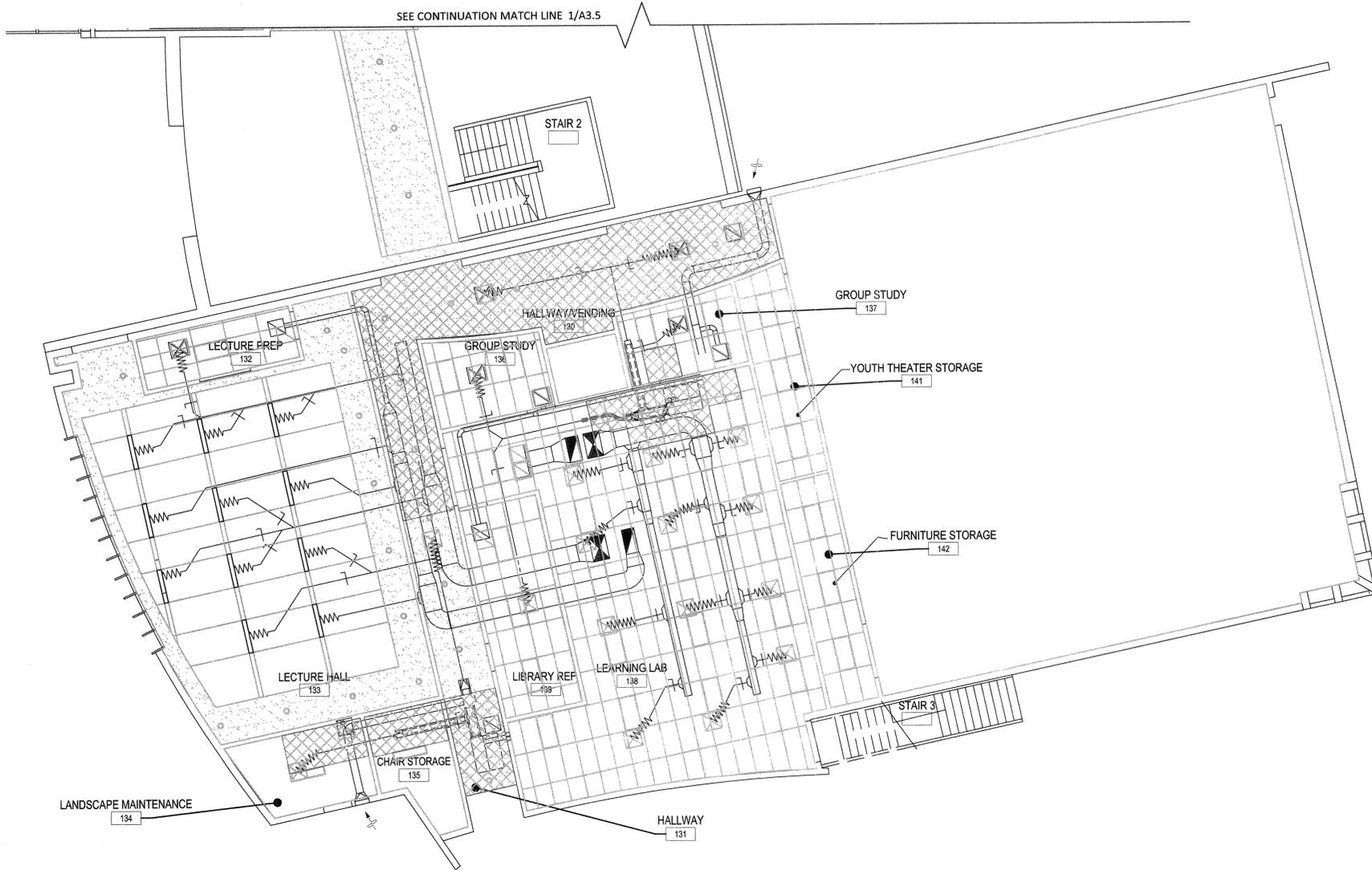
1. REPLACE SELECTED CEILING REPLACEMENT PANELS AFFECTED BY THE INSTALLATION OF NEW DUCT. DO NOT REMOVE OR REPLACE MAIN RUNNER OR CROSS-RUNNERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT & DSA.

LEGEND:

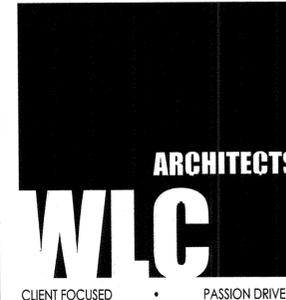
-  (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
-  (N) ACOUSTIC CEILING TILES
-  (E) GYPSUM BOARD CEILING TO BE REMOVE & REPLACE AFTER INSTALLATION OF (N) DUCK WORK
-  (E) GYPSUM BOARD CEILING
-  (N) MECHANICAL SUPPLY DIFFUSER, SMD
-  (N) MECHANICAL RETURN DIFFUSER, SMD

REFERENCE NOTES

-  (N) EXHAUST FAN, (E) AIR REGISTER TO REMAIN S.M.D. & S.E.D.
-  (E) LIGHT FIXTURE TO REMAIN

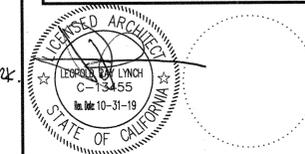


SEE CONTINUATION MATCH LINE 1/A3.5

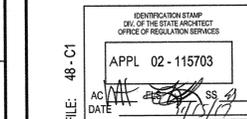


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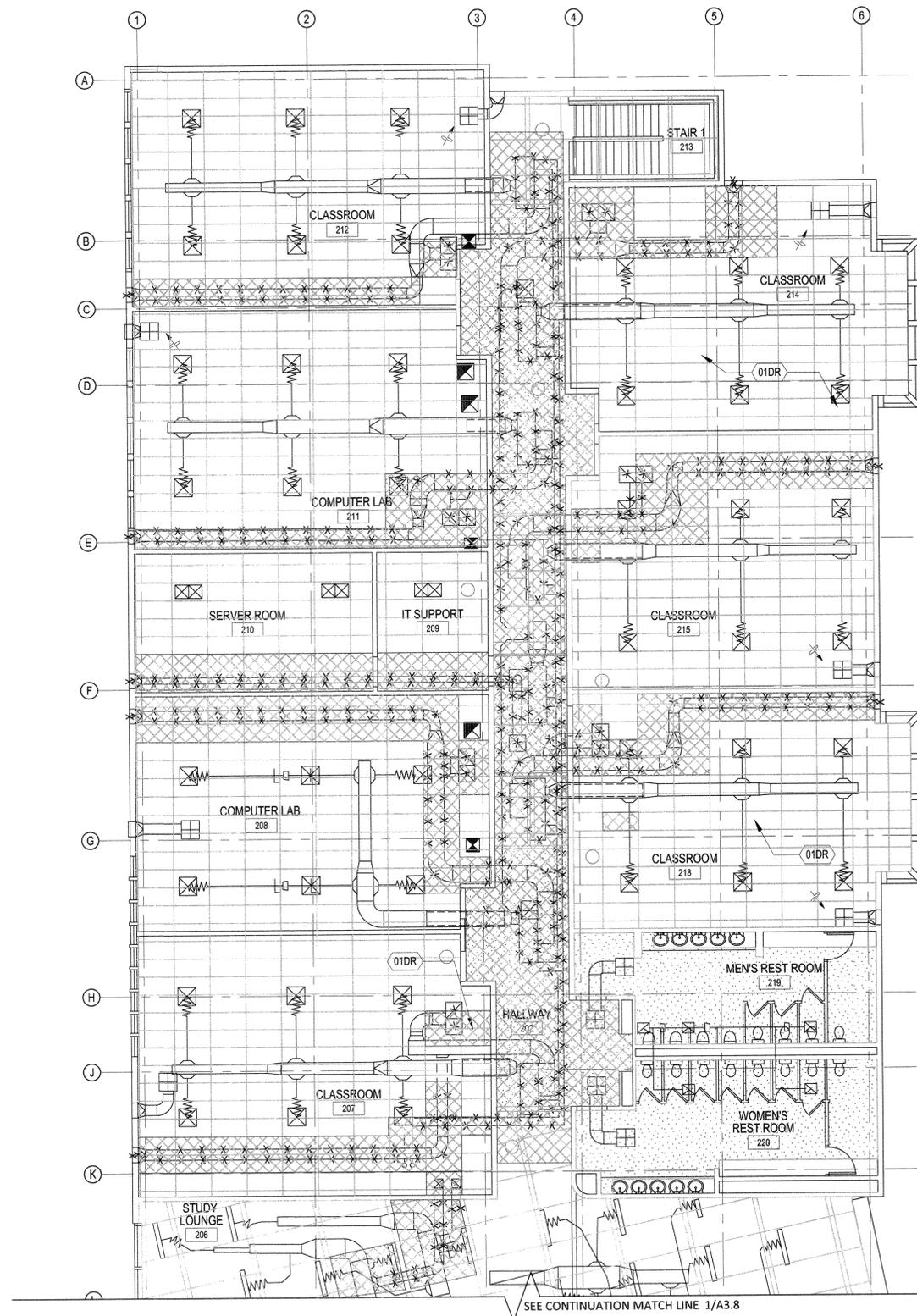
NO	DATE	BY	DESCRIPTION
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REVISIONS

DRAWN: VP	CHECKED: EB
DATE: 03/21/2017	SCALE: AS SHOWN
PROJECT NUMBER: 1715900	

**1ST FLOOR SOUTH  
 REFLECTED  
 CEILING PLAN**

DRAWING NUMBER: **A3.6**



**GENERAL NOTES**

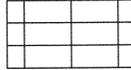
- NOTES:**
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  - PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

- REFLECTED CEILING PLAN NOTES:**
- REFER TO MECHANICAL FOR ADDITIONAL EQUIPMENT INFORMATION.

**SHEET NOTES**

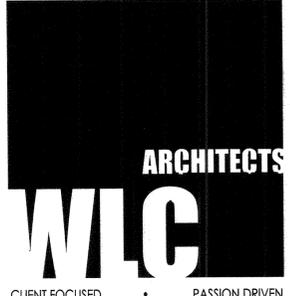
- REPLACE SELECTED CEILING REPLACEMENT PANELS AFFECTED BY THE INSTALLATION OF NEW DUCT. DO NOT REMOVE OR REPLACE MAIN RUNNER OR CROSS-RUNNERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT & DSA.

**LEGEND:**

-  (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
-  RE-INSTALL (E) ACOUSTIC CEILING TILES
-  (N) GYPSUM BOARD CEILING
-  (E) GYPSUM BOARD CEILING
-  (N) MECHANICAL SUPPLY DIFFUSER, SMD
-  (N) MECHANICAL RETURN DIFFUSER, SMD

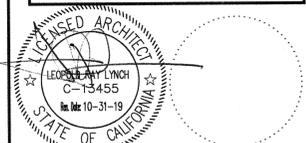
**REFERENCE NOTES**

-  (N) EXHAUST FAN, (E) AIR REGISTER TO REMAIN S.M.D. & S.E.D.
-  (E) LIGHT FIXTURE TO REMAIN

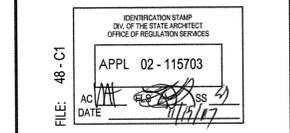


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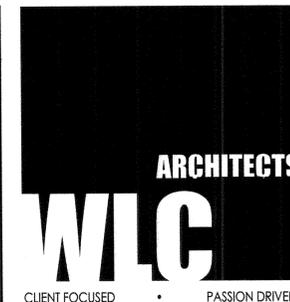
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 PROJECT NUMBER: 1715900

**2ND FLOOR NORTH  
 REFLECTED  
 CEILING PLAN**

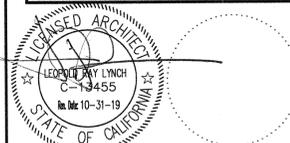
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 PROJECT NUMBER: 1715900

**2ND FLOOR SOUTH  
 REFLECTED  
 CEILING PLAN**

DRAWING NUMBER: **A3.8**

**GENERAL NOTES**

- NOTES:**
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  - PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

- REFLECTED CEILING PLAN NOTES:**
- REFER TO MECHANICAL FOR ADDITIONAL EQUIPMENT INFORMATION.

**SHEET NOTES**

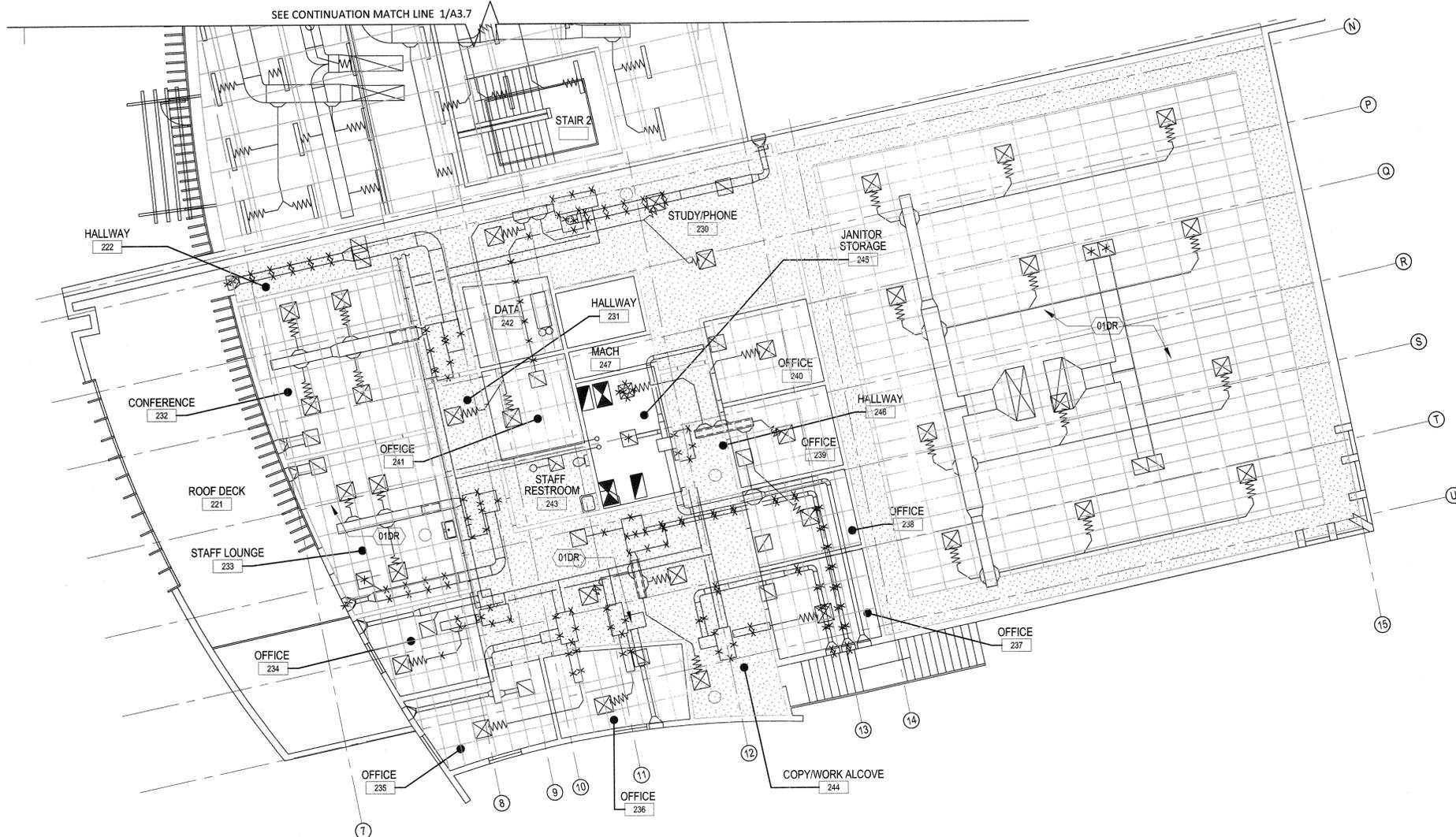
- REPLACE SELECTED CEILING REPLACEMENT PANELS AFFECTED BY THE INSTALLATION OF NEW DUCT. DO NOT REMOVE OR REPLACE MAIN RUNNER OR CROSS-RUNNERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT & DSA.

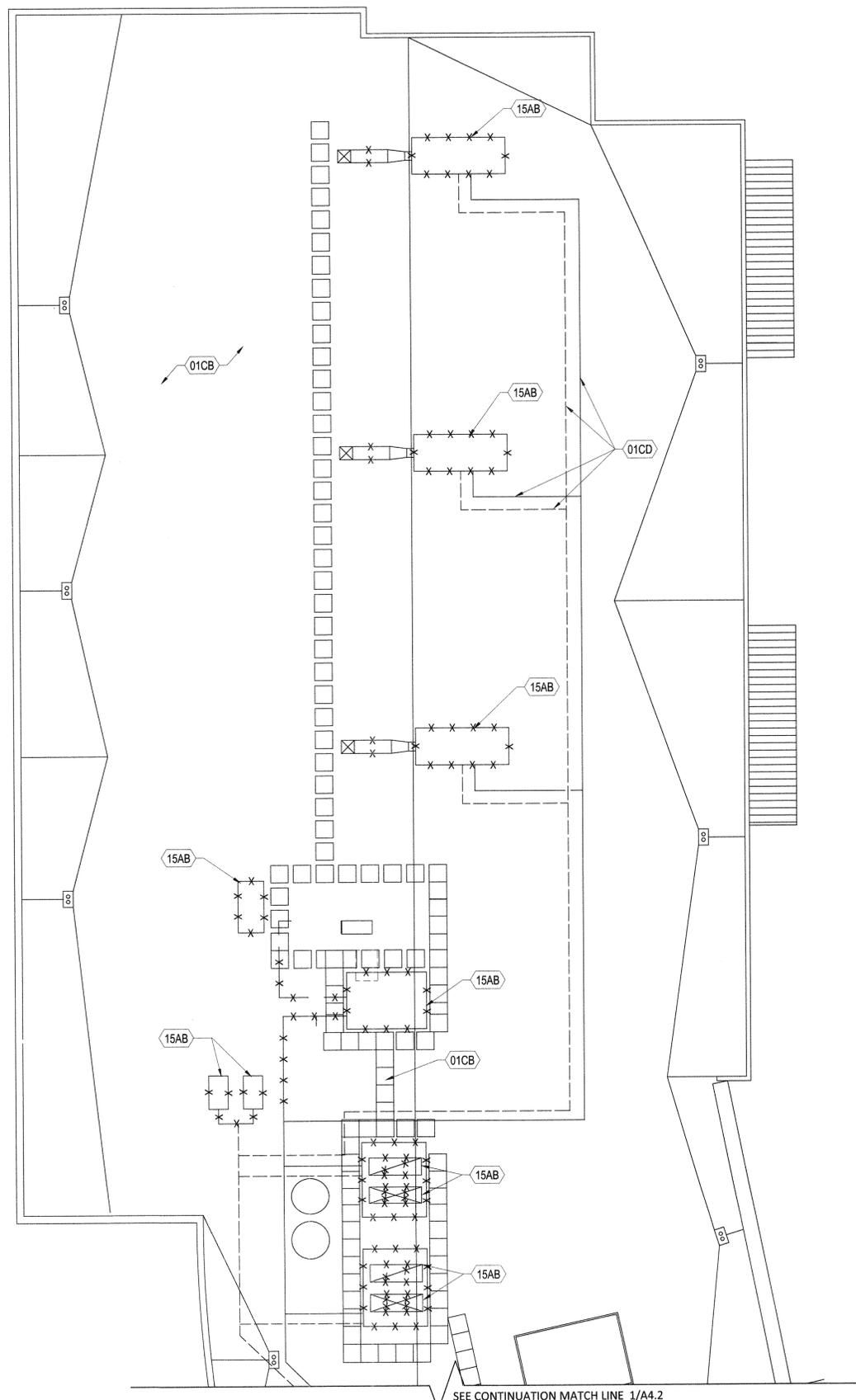
**LEGEND:**

- (E) ACOUSTIC CEILING TILES TO REMAIN AND PROTECT
- RE-INSTALL (E) ACOUSTIC CEILING TILES
- (N) GYPSUM BOARD CEILING
- (E) GYPSUM BOARD CEILING
- (N) MECHANICAL SUPPLY DIFFUSER, SMD
- (N) MECHANICAL RETURN DIFFUSER, SMD

**REFERENCE NOTES**

- (N) EXHAUST FAN, (E) AIR REGISTER TO REMAIN S.M.D. & S.E.D.
- (E) LIGHT FIXTURE TO REMAIN





DEMOLITION PARTIAL ROOF PLAN (NORTH)

1/8" = 1' - 0" 1

GENERAL NOTES

- DEMOLITION PLAN NOTES:**
1. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
  2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  3. PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

SHEET NOTES

1. ALL (E) DUCT PENETRATIONS & OTHER PENETRATIONS TO REMAIN.
2. CONTRACTOR SHALL FIELD VERIFY (E) DIMENSIONS, EXISTING CONDITIONS, TYPE & NUMBER OF REFERENCED & NON - REFERENCED.

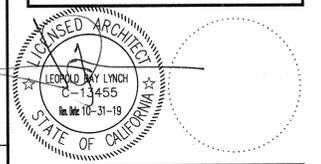
REFERENCE NOTES

- 01CB (E) BUILT UP ROOFING TO REMAIN
- 01CC (E) WALKING PAD TO REMAIN
- 01CD (E) PIPING TO REMAIN AND PROTECT
- 15AB (E) MECHANICAL EQUIPMENT TO BE DEMOLISHED

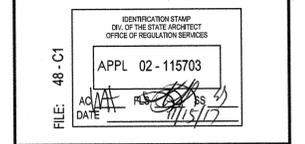


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 PROJECT NUMBER: 1715900

**ROOF NORTH  
 DEMOLITION PLAN**

DRAWING NUMBER: **A4.1**

**GENERAL NOTES**

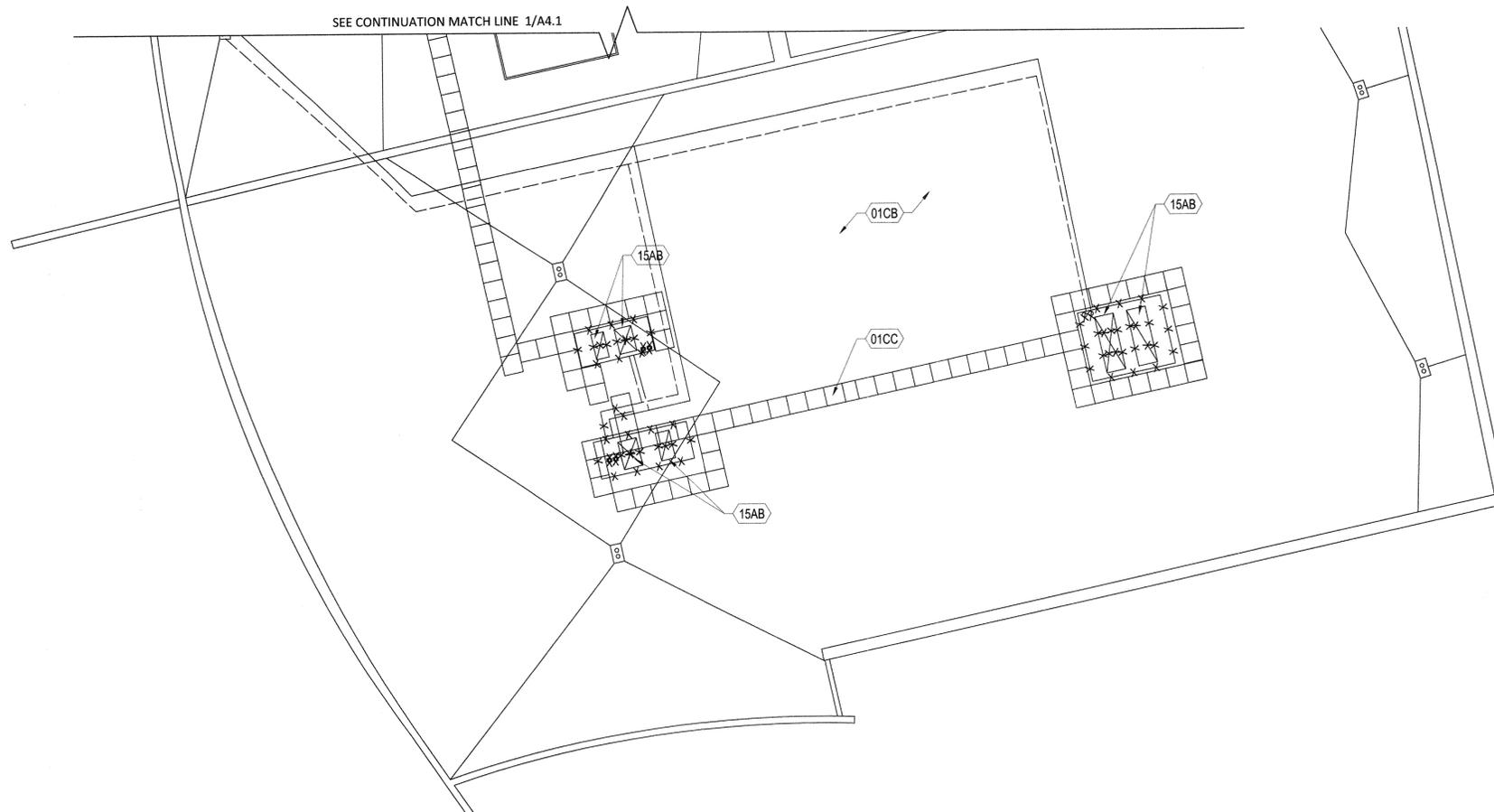
- DEMOLITION PLAN NOTES:**
1. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
  2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  3. PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

**SHEET NOTES**

1. ALL (E) DUCT PENETRATIONS & OTHER PENETRATIONS TO REMAIN.
2. CONTRACTOR SHALL FIELD VERIFY (E) DIMENSIONS, EXISTING CONDITIONS, TYPE & NUMBER OF REFERENCED & NON - REFERENCED.

**REFERENCE NOTES**

- (E) BUILT UP ROOFING TO REMAIN
- (E) WALKING PAD TO REMAIN
- (E) MECHANICAL EQUIPMENT TO BE DEMOLISHED
- (E) BUILT UP ROOFING TO REMAIN
- (E) WALKING PAD TO REMAIN
- (E) CONDENSING UNITS
- (E) PIPING TO REMAIN AND RE-USE
- (E) EXHAUST FAN



DEMOLITION PARTIAL ROOF PLAN (SOUTH)

1/8" = 1' - 0"

1

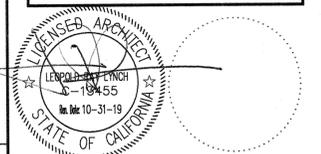
**ARCHITECTS**  
**WLC**

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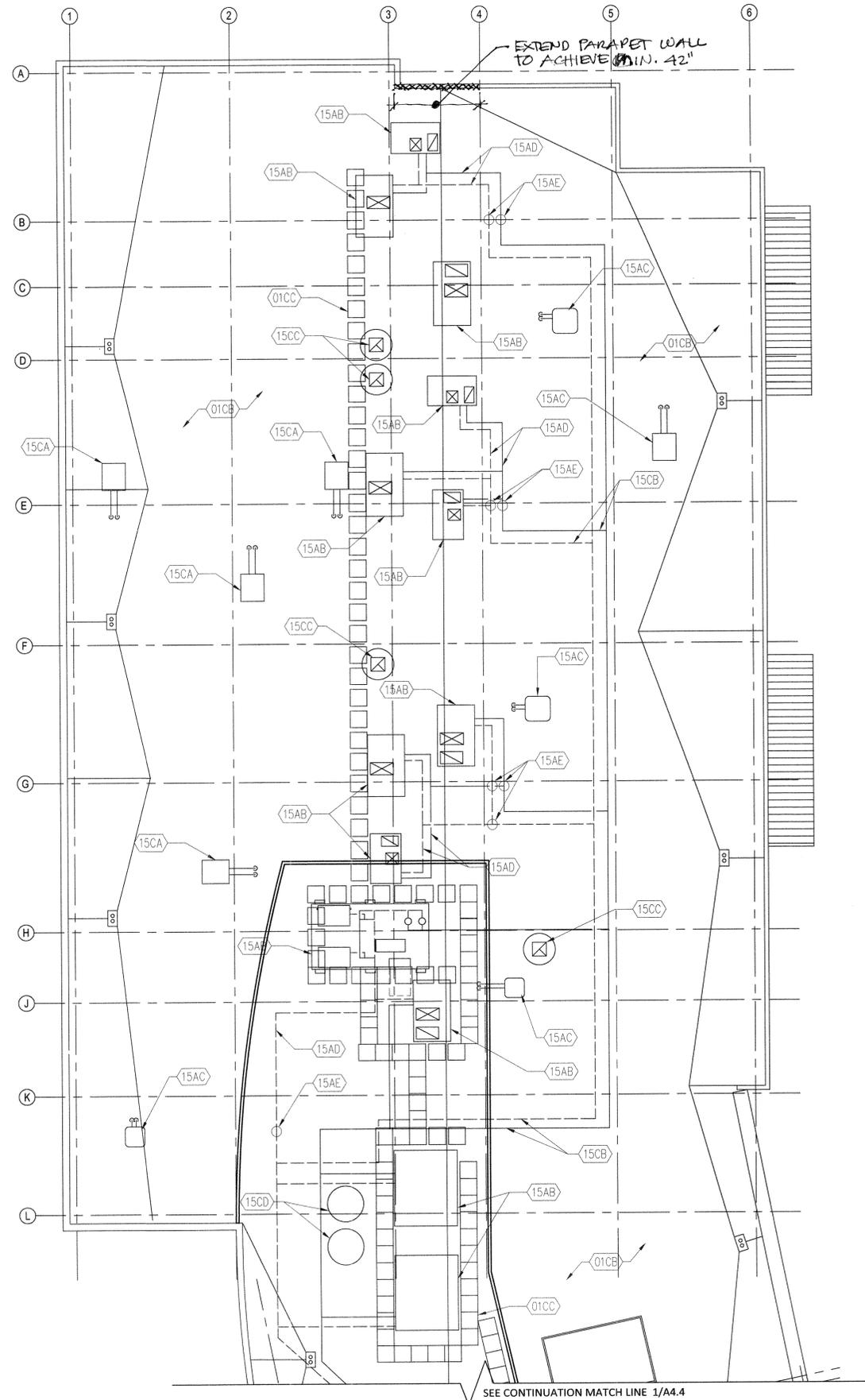


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REVISIONS			

DRAWN: VP      CHECKED: EB  
DATE: 03/21/2017      SCALE: AS SHOWN  
PROJECT NUMBER: 1715900

**ROOF SOUTH  
DEMOLITION PLAN**

DRAWING NUMBER: **A4.2**



PROPOSED PARTIAL ROOF PLAN (NORTH)

1/8" = 1' - 0" 1

GENERAL NOTES

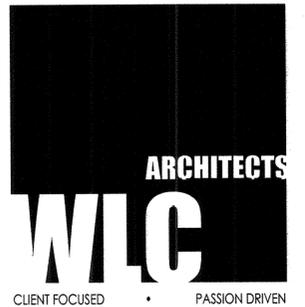
- DEMOLITION PLAN NOTES:**
1. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
  2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  3. PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

SHEET NOTES

1. ALL (E) DUCT PENETRATIONS & OTHER PENETRATIONS TO REMAIN.
2. PROVIDE (N) CONT. SEAL AROUND (E) EXHAUST FANS, VENTS, FLUES, AND ALL OTHER PENETRATIONS.
3. CONTRACTOR SHALL FIELD VERIFY (E) DIMENSIONS, EXISTING CONDITIONS, TYPE & NUMBER OF REFERENCED & NON - REFERENCED.

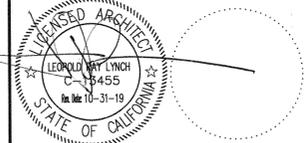
REFERENCE NOTES

- (E) BUILT UP ROOFING TO REMAIN
- (E) WALKING PAD TO REMAIN
- (E) CONDENSING UNITS
- (E) PIPING TO REMAIN AND RE-USE
- (E) EXHAUST FAN
- (E) WATER HEATER
- (N) HVAC UNIT
- (N) CONDENSING UNIT
- (N) PIPING TO CONNECT TO (E) PIPE
- (N) POINT OF CONNECTIONS

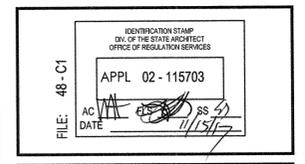


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DRAWN: EB CHECKED: L  
 DATE: 03/21/2017 SCALE: AS SHOWN  
 PROJECT NUMBER: 1715900

**ROOF NORTH  
 PROPOSED PLAN**

DRAWING NUMBER: **A4.3**

GENERAL NOTES

- DEMOLITION PLAN NOTES:**
1. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
  2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
  3. PATCH AND REPAIR FINISHES TO MATCH ADJACENT FINISHES AFFECTED BY DEMOLITION.

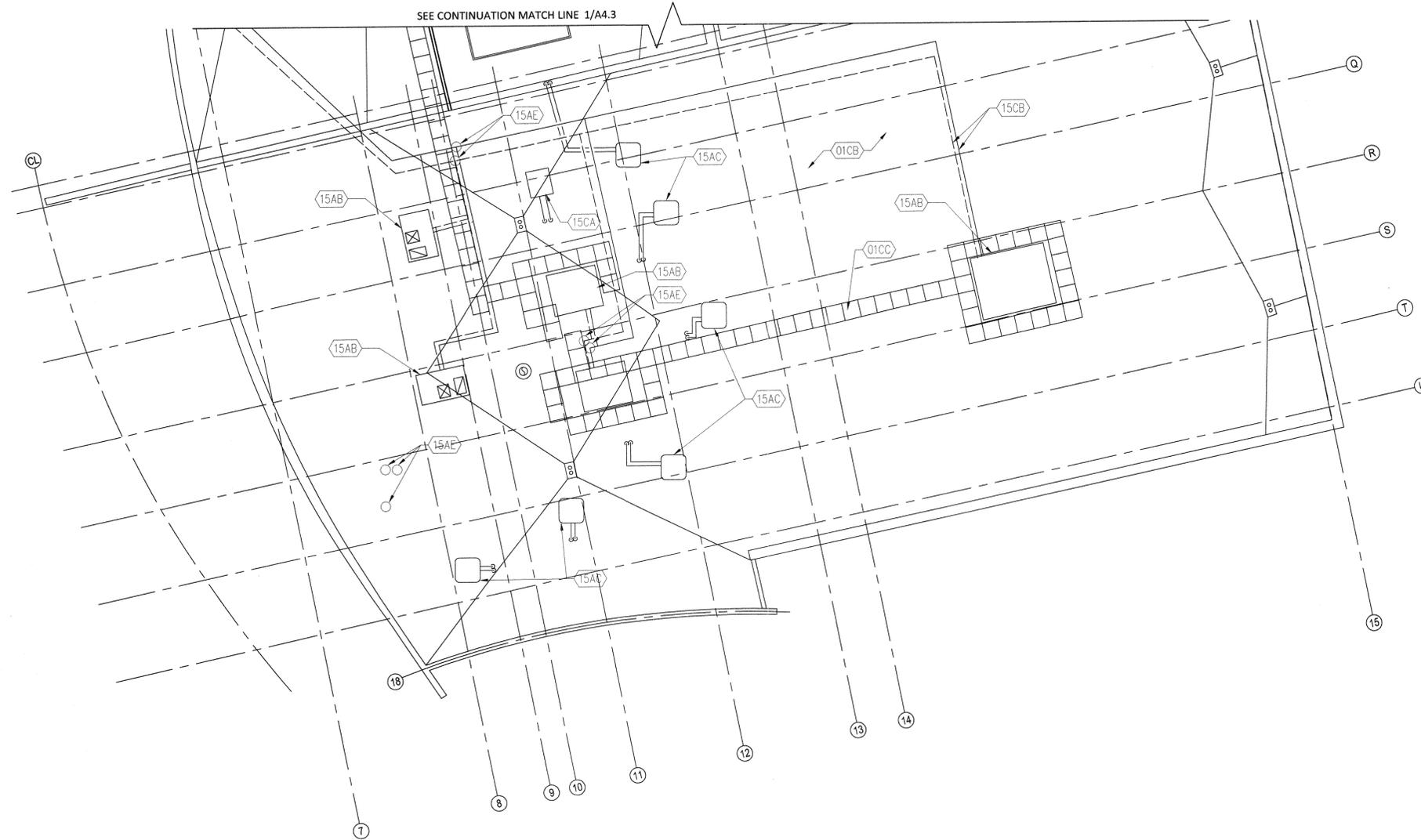
- REFLECTED CEILING PLAN NOTES:**
1. REFER TO MECHANICAL FOR ADDITIONAL EQUIPMENT INFORMATION.

SHEET NOTES

1. ALL (E) DUCT PENETRATIONS & OTHER PENETRATIONS TO REMAIN.
2. PROVIDE (N) CONT. SEAL AROUND (E) EXHAUST FANS, VENTS, FLUES, AND ALL OTHER PENETRATIONS.
3. CONTRACTOR SHALL FIELD VERIFY (E) DIMENSIONS, EXISTING CONDITIONS, TYPE & NUMBER OF REFERENCED & NON - REFERENCED.

REFERENCE NOTES

- (E) BUILT UP ROOFING TO REMAIN
- (E) WALKING PAD TO REMAIN
- (E) CONDENSING UNITS
- (E) PIPING TO REMAIN AND RE-USE
- (E) EXHAUST FAN
- (N) HVAC UNIT
- (N) CONDENSING UNIT
- (N) PIPING TO CONNECT TO (E) PIPE
- (N) POINT OF CONNECTIONS



PROPOSED PARTIAL ROOF PLAN (SOUTH)

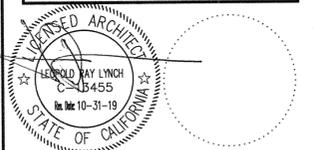
1/8" = 1' - 0"

1

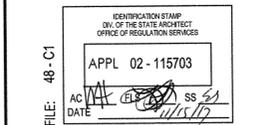
**ARCHITECTS**  
**WLC**  
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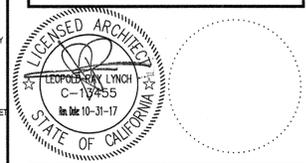
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REVISIONS

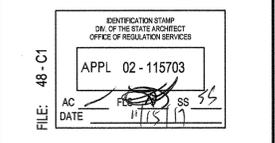
DRAWN: VP CHECKED: EB  
DATE: 03/21/2017 SCALE: AS SHOWN  
PROJECT NUMBER: 1715900

**ROOF SOUTH  
PROPOSED PLAN**

DRAWING NUMBER: **A4.4**



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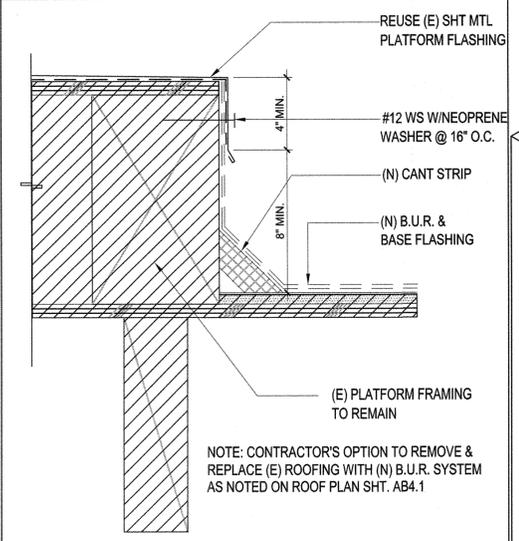


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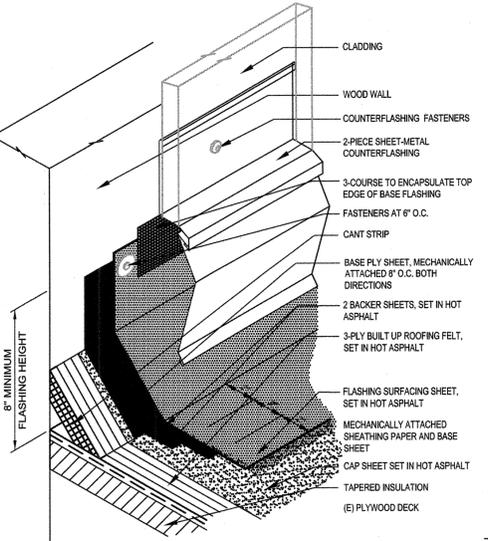
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DATE: 03/21/2017      SCALE: AS NOTED  
PROJECT NUMBER: 1715900

**ROOF DETAILS**

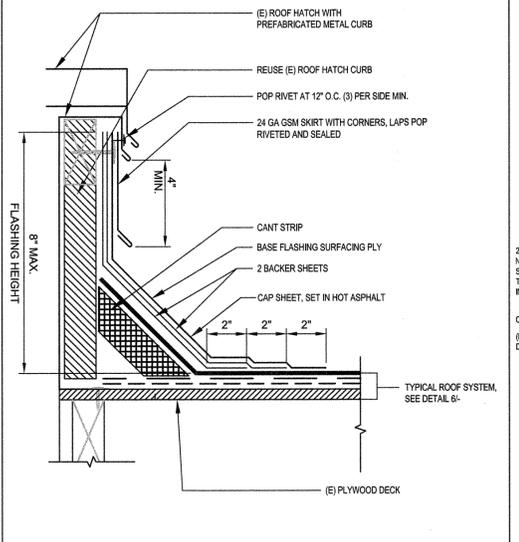
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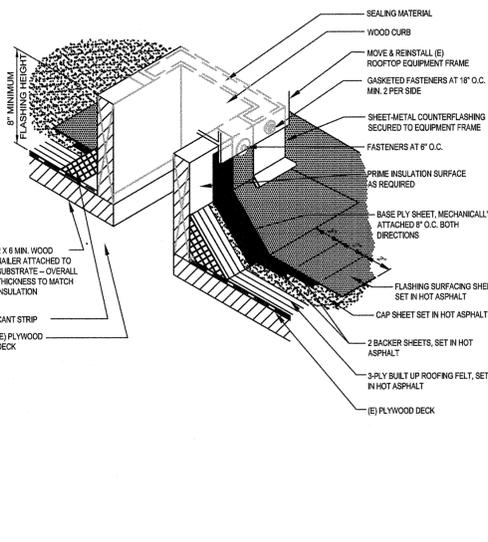
**7 MECH. PLATFORM DETAIL**      3"=1'      4



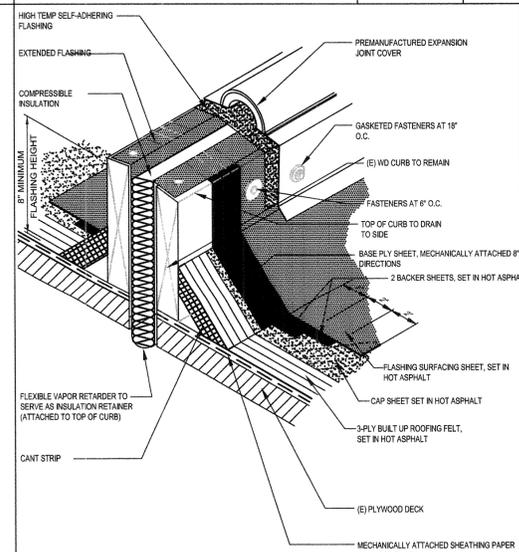
**1 TYPICAL FLASHING DETAIL**      1"=1'      1



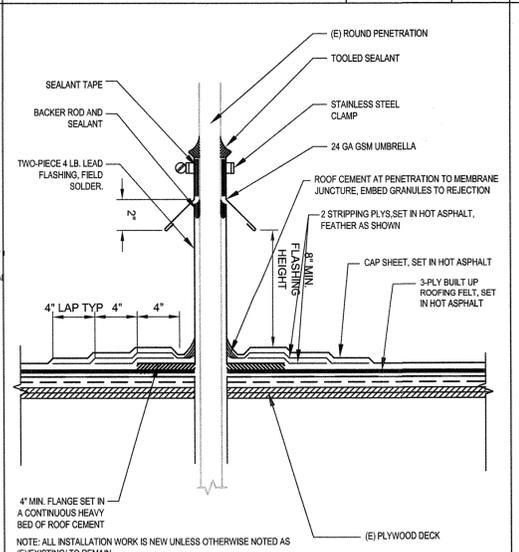
**8 ROOF HATCH DETAIL**      3"=1'      5



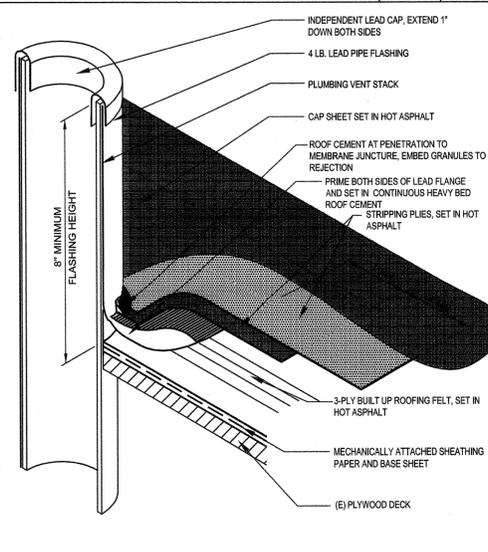
**2 EQPT. CURB DETAIL**      3"=1'      2



**9 BLDG. F ROOF SEISMIC JT.**      3"=1'      9



**6 TYP. ROOF PEN. DETAIL**      3"=1'      6



**3 TYP. PLUMBING VENT STACK**      1"=1'      3

**I. GENERAL REQUIREMENTS**

A. THE STRUCTURAL DRAWINGS AND PROJECT SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE MEANS, METHODS, PROCEDURES AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

B. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL STANDARDS.

C. ALL CONSTRUCTION, TESTING, AND INSPECTIONS SHALL CONFORM TO THE BUILDING CODE REFERENCED UNDER THE HEADING "BASIS OF DESIGN" BELOW.

D. STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED.

E. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: OPENINGS IN WALLS AND FLOORS REQUIRED BY MEP FEATURES; CURBS; SLOPES; DRAINS; PADS; EMBEDDED ITEMS; ETC. COORDINATE THESE ITEMS WITH THE STRUCTURAL DRAWINGS.

F. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT AND SEOR.

G. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE SEOR AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

H. DO NOT SCALE THE DRAWINGS; USE WRITTEN DIMENSIONS ONLY. WHERE NO DIMENSIONS ARE PROVIDED OR WHERE DIMENSIONS PROVIDED CONFLICT WITH OTHER DRAWINGS, CONSULT THE SEOR.

I. TYPICAL DETAILS ARE INTENDED TO APPLY TO APPLICABLE SITUATIONS, UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT BE SPECIFICALLY LOCATED.

J. DETAILS SHALL BE APPLIED TO EVERY LIKE CONDITION WHETHER OR NOT THEY ARE REFERENCED IN EVERY INSTANCE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, USE DETAILS SIMILAR TO THOSE PROVIDED.

K. THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTION LOADS DO NOT EXCEED THE CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE PLACED.

**II. BASIS OF DESIGN**

A. THE STRUCTURAL DESIGN OF THIS PROJECT IS GOVERNED BY THE 2013 CALIFORNIA BUILDING CODE (CBC) WITH SS/DSEA AMMENDMENTS.

B. RISK CATEGORY = III

C. DEAD LOADS:  
1. SELF-WEIGHT OF STRUCTURE  
2. MECHANICAL UNITS = SEE WEIGHT ON PLAN

D. LIVE LOADS:  
1. CLASSROOMS = 50 PSF  
2. ROOF = 20 PSF

E. WIND DESIGN DATA:  
1. BASIC WIND SPEED = 115 MPH  
2. EXPOSURE CATEGORY = C  
3. TOPOGRAPHIC FACTOR = 1.0

F. SEISMIC DESIGN DATA:  
1. Ip = 1.00  
2. SDS = 1.080  
3. SP1 = 0.556  
4. SITE CLASS = D  
5. SEISMIC DESIGN CATEGORY = D  
6. ap = VARIES  
7. Rp = VARIES

**III. WOOD**

A. ALL WOOD FRAMING SHALL CONFORM TO NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION AND APA PDS, PLYWOOD DESIGN SPECIFICATION.

B. ALL WOOD FRAMING SHALL BE DOUGLAS FIR LARCH, UNLESS OTHERWISE NOTED. GRADE SHALL BE AS FOLLOWS:  
1. JOISTS = 1  
2. BEAMS = 1  
3. BLOCKING AND MISCELLANEOUS = 2

C. REJECTION OF WOOD MEMBERS: THE PROVISION IN DOC PS 20 (AS REFERENCED BY CBC 2303.1.1) WHICH PERMITS FIVE PERCENT OF THE MATERIAL TO FALL BELOW GRADE SHALL NOT BE CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD-CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIC ALLOWABLE STRESSES AND ACCEPTABLE SAFETY FACTORS. MATERIALS WHICH FALL BELOW GRADE SHALL BE REJECTED FOR LOAD-CARRYING USE. WOOD MEMBERS WHICH ARE REQUIRED TO CARRY DESIGN LOADS AND WHICH THE PROJECT ARCHITECT, SEOR OR INSPECTOR JUDGE TO BE MISGRADED SHALL BE REINSPECTED BY A QUALIFIED LUMBER GRADING INSPECTOR TO VERIFY THE PROPER GRADING OF THE MATERIAL. WOOD MEMBERS WHICH HAVE PERMISSIBLE GRADE CHARACTERISTICS OR DEFECTS IN SUCH COMBINATION AS TO AFFECT THE SERVICEABILITY OF THE MEMBER SHALL BE REJECTED BY THE PROJECT INSPECTOR WITH THE CONCURRENCE OF THE ARCHITECT OR SEOR.

D. MAXIMUM MOISTURE CONTENT SHALL BE 15% AT TIME OF FRAMING FOR NEW WOOD MEMBERS ADJACENT TO EXISTING WOOD MEMBERS.

E. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE OR EQUAL PRODUCT IF APPROVED BY SEOR. SIMPSON DESIGNATIONS USED IN THESE DRAWINGS.

F. LAG BOLTS AND UNFINISHED MACHINE BOLTS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

G. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GR 36.

H. FASTENERS INSTALLED IN PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD SHALL BE GALVANIZED.

I. PLYWOOD SHALL BE 1 5/8" STRUCT I, EXPOSURE 1

**IV. POST-INSTALLED ANCHORS**

A. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS AND POWDER-ACTUATED FASTENERS.

B. DO NOT DAMAGE OR CUT EXISTING REINFORCING STEEL WHILE INSTALLING POST-INSTALLED ANCHORS. NOTIFY SEOR IF EXISTING REINFORCING STEEL INTERFERES WITH INSTALLATION OF POST-INSTALLED ANCHORS.

C. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL NOT BE USED AND SHALL BE GROUTED SOLID.

D. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE ICC-ES REPORT AND MANUFACTURER'S RECOMMENDATIONS.

E. PROVIDE SPECIAL INSPECTION FOR THE INSTALLATION OF ALL POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED.

F. FIELD TEST POST-INSTALLED ANCHORS, UNLESS OTHERWISE NOTED. FIELD TESTING SHALL BE IN COMPLIANCE WITH THE FOLLOWING:

1. 50% OF POST-INSTALLED ANCHORS USED FOR NON-STRUCTURAL APPLICATIONS SHALL BE TESTED, INCLUDING ONE HALF OF ALL ANCHORS IN EACH GROUP.
  - a. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE THAT ARE UNTESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS.
  2. TORQUE TESTING MAY BE USED FOR TORQUE CONTROLLED POST-INSTALLED ANCHORS; TENSION TEST ALL OTHER POST-INSTALLED ANCHORS.
  3. TORQUE TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1913A.7.4.2.
  4. TENSION TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1913A.7.4.1.
  5. ALL FIELD TESTING SHALL BE DONE UNDER THE OBSERVATION OF THE PROJECT INSPECTOR.
  6. TESTING SHALL OCCUR AT LEAST 24 HOURS AFTER THE ANCHOR HAS BEEN INSTALLED.

**G. EXPANSION ANCHORS**

1. FOR INSTALLATION IN CONCRETE, EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING:
  - a. STRONG BOLT 2 PER ICC-ES ESR-3037 AS MANUFACTURED BY SIMPSON STRONG TIE.
  - b. KWIK BOLT TZ PER ICC-ES ESR-1917 AS MANUFACTURED BY HILTI, INC.
2. USE STAINLESS STEEL AT EXTERIOR, WEATHER-EXPOSED OR DAMP LOCATIONS; CARBON STEEL EXPANSION ANCHORS MAY BE USED AT ALL OTHER LOCATION, UNLESS OTHERWISE NOTED.
3. MINIMUM ANCHOR EMBEDMENT AND TORQUE TEST VALUES ARE AS FOLLOWS:

KWIK BOLT TZ IN NORMAL WEIGHT CONCRETE (fc = 3000 PSI MIN)				
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)	
3/8	2 5/16	2 5/8		25
1/2	2 3/8	2 5/8		40
5/8	4 7/16	4 3/4		60
3/4	5 9/16	5 3/4		110

STRONG BOLT 2 IN NORMAL WEIGHT CONCRETE (fc = 3000 PSI MIN)				
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)	
3/8	1 7/8	2		30
1/2	2 3/4	3		60
5/8	5 1/8	5 3/8		90
3/4	5 3/4	6		150

KWIK BOLT TZ IN LIGHT WEIGHT CONCRETE (fc = 3000 PSI MIN)				
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)	
3/8	2 5/16	2 5/8		25
1/2	2 3/8	2 5/8		40
5/8	3 9/16	3 7/8		60

STRONG BOLT 2 IN LIGHT WEIGHT CONCRETE (fc = 3000 PSI MIN)				
ANCHOR DIAMETER (IN)	EMBED (IN)	MINIMUM HOLE DEPTH (IN)	TORQUE TEST VALUE (FT-LBS)	
3/8	1 7/8	2		30
1/2	2 3/4	3		60
5/8	3 3/8	3 5/8		90
3/4	4 1/8	4 3/8		150

**H. POWDER-ACTUATED FASTENERS**

1. PAF SHALL BE ONE OF THE FOLLOWING:
  - a. SIMPSON STRONG TIE POWDER-ACTUATED FASTENERS PER ICC-ES ESR-2138 FOR ANCHORAGE OF METAL TO CONCRETE, OR STEEL.
  - b. HILTI, INC. X-U PER ICC-ES ESR-2269 FOR ANCHORAGE OF METAL TO CONCRETE, OR STEEL.
2. PROVIDE 0.08"x1.1"x1.1" SQUARE OR 0.08"x1.425" DIAMETER ROUND WASHER AT EACH PAF.
3. MINIMUM PAF EMBED INTO CONCRETE SHALL BE 1", UNLESS OTHERWISE NOTED.
4. MINIMUM PAF EMBED INTO STEEL SHALL BE PER MANUFACTURER.

# ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
(E)	EXISTING
ADDL	ADDITIONAL
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BTWN	BETWEEN
CL	CENTER LINE
CLR	CLEAR OR CLEARANCE
CONN	CONNECTION(S)
CONT	CONTINUOUS
CTR	CENTER
CTRD	CENTERED
CTRSK	COUNTERSINK
db	DIAMETER OF BOLT OR REBAR
DF	DOUGLAS FIR
DIA	DIAMETER
DWG(S)	DRAWING(S)
EA	EACH
EF	EACH FACE
EMBED	EMBEDMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXP	EXPANSION
GA	GAGE, GAUGE
GLB	GLUE-LAMINATED BEAM
GR	GRADE
HGR	HANGER
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION (TUBE STEEL)
HVAC	HEATING VENTING AND AIR CONDITIONING
INFO	INFORMATION
LBS	POUNDS
MAX	MAXIMUM
MB	UNFINISHED MACHINE BOLT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG(S)	OPENING(S)
PAF	POWDER ACTUATED FASTENER
PERP	PERPENDICULAR
PL	PLATE
PLY	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
REF	REFERENCE
REQD	REQUIRED
REV	REVISION
SCHED	SCHEDULE(D)
SEOR	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW(S)
STAGG'D	STAGGERED
STD	STANDARD
T&B	TOP AND BOTTOM
THR'D	THREADED
TO	TOP OF
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WITH
WO	WITHOUT
WF	WIDE FLANGE
WT	WEIGHT

ISSUES



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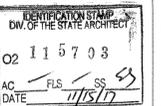
212 9TH STREET, SUITE 203  
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GENERAL NOTES AND ABBREVIATIONS

Date: 09/11/2017

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

Drawn: TTD

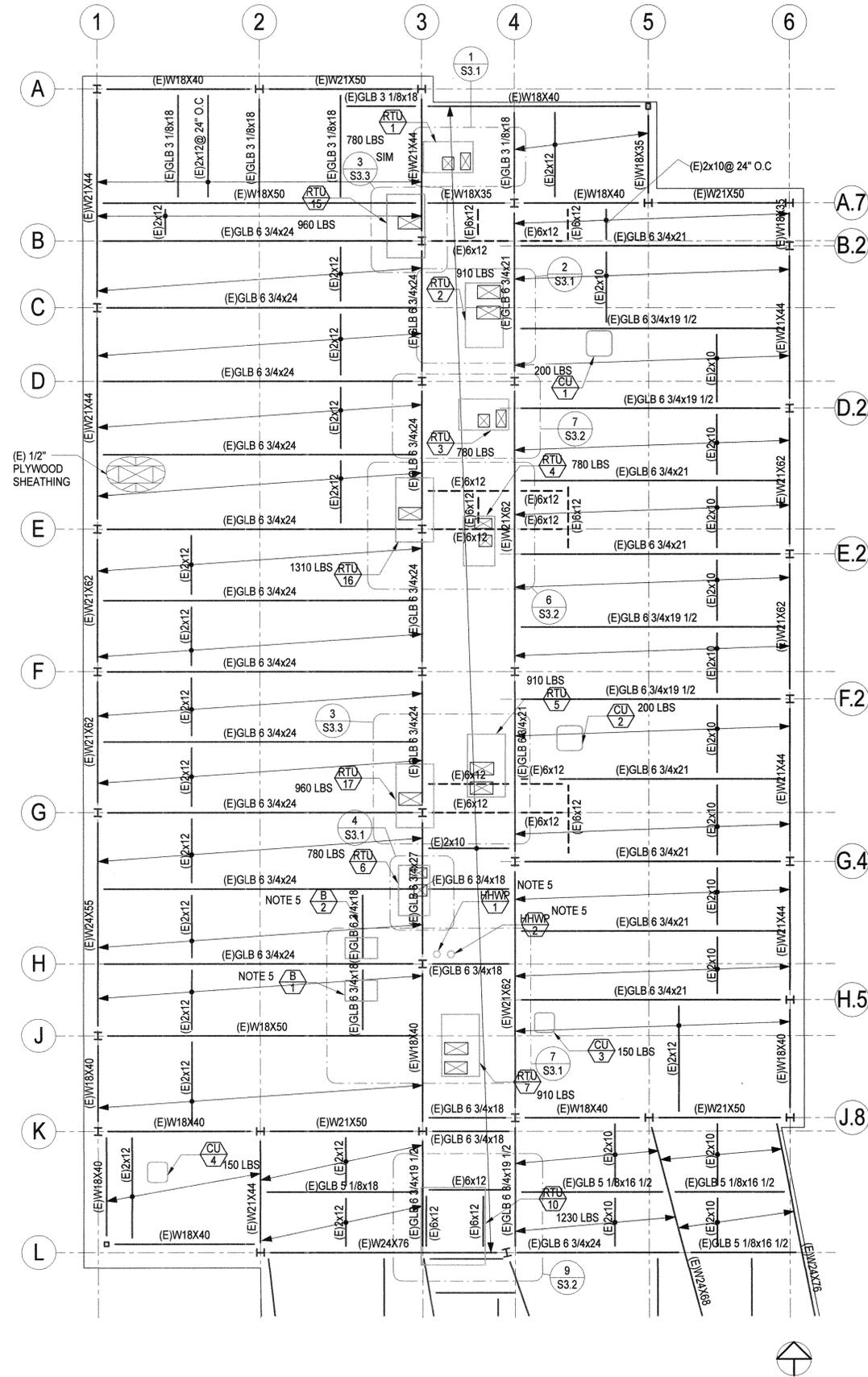
Job: 16201

Sheet

S1.1

Of Sheets

Received By  
 NOV 9 2 2017  
 W.C. Acchiarelli, Inc.



- FRAMING PLAN NOTES:**
- SEE GENERAL NOTES AND ABBREVIATIONS ON SHEET S1.1.
  - MARKS  $\frac{RTU}{14}$ , INDICATE NEW MECHANICAL UNIT AND MAXIMUM OPERATING WEIGHT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
  - SEE SHEET S8.1 FOR TYPICAL WOOD FRAMING DETAILS.
  - AT CU UNITS, PROVIDE 4x8 BLOCKING ALL 4 SIDES WITH HUC48 EA END. WHERE UNITS ARE SKEWED TO (E) JOIST, SEE  $\frac{1}{S3.3}$ .
  - BOILERS AND HOT WATER PUMPS ARE INSTALLED ON A SKID. TOTAL WEIGHT OF SKID IS 6295 LBS.

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 O2 115703  
 AC FLS SS  
 DATE 11/15/17

**1 VACAVILLE EDUCATION CENTER NORTH ROOF FRAMING PLAN** 1/8" = 1'-0"

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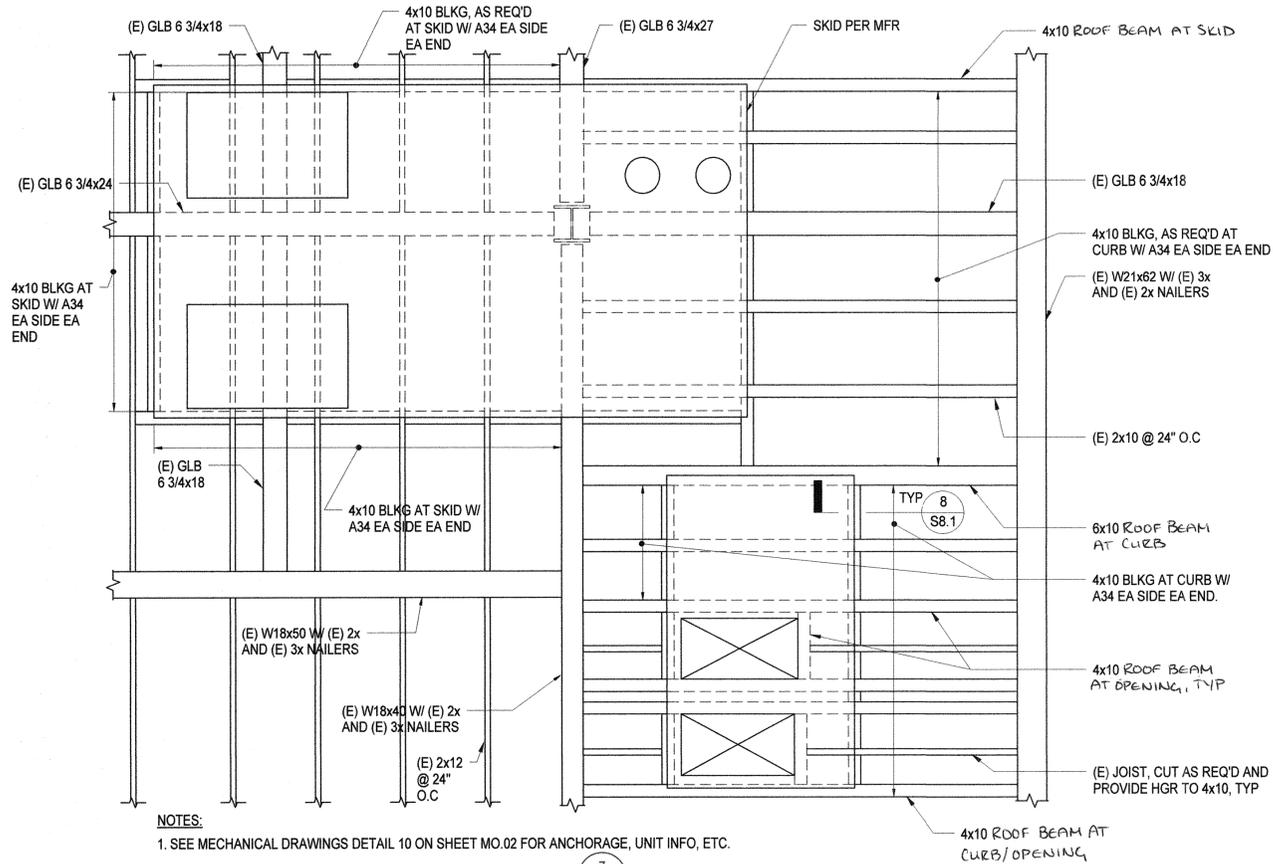
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**VACAVILLE EDUCATION CENTER  
 NORTH ROOF  
 FRAMING PLAN**

Date: 09/11/2017  
 Scale: 1/8" = 1'-0"  
 Drawn: TTD  
 Job: 16201  
 Sheet: S2.1





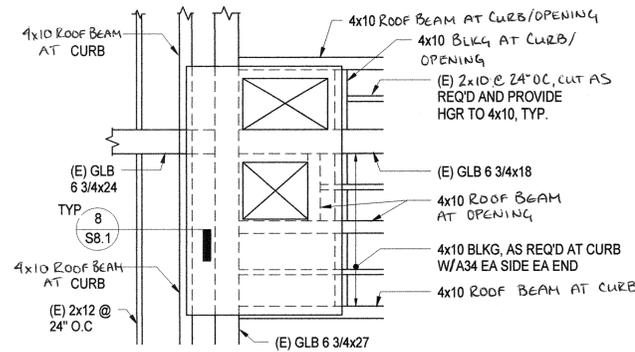
- NOTES:**
- SEE MECHANICAL DRAWINGS DETAIL 10 ON SHEET MO.02 FOR ANCHORAGE, UNIT INFO, ETC.
  - PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBER PER (7) S8.1
  - WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN.
  - PROVIDE 10d @ 2 1/2" O.C EDGE NAILING FROM (E) PLYWOOD TO FRAMING MEMBERS AROUND OPENINGS

**7 ENLARGED PLAN AT RTU-7 AND AT SKID**

1/2" = 1'-0"

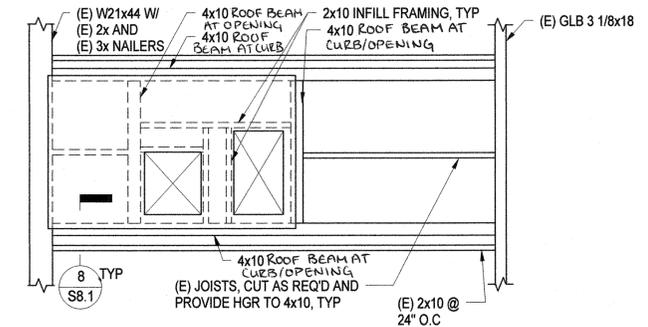
**4 ENLARGED PLAN AT RTU-6**

1/2" = 1'-0"



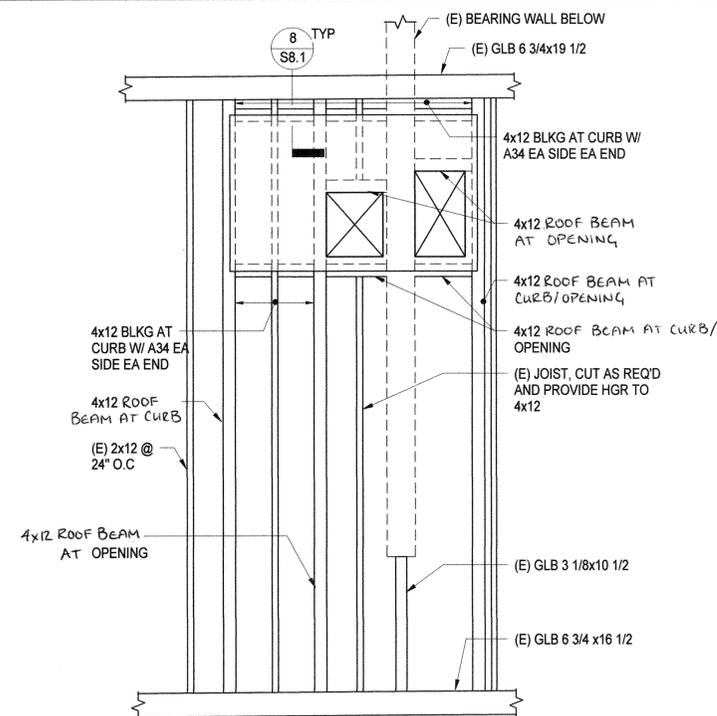
- NOTES:**
- LOCATE UNIT SO NEW OPENINGS CLEAR (E) GLB 6 3/4x18, (E) GLB 6 3/4x24, AND (E) GLB 6 3/4x27.
  - PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBER PER (7) S8.1
  - WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN.
  - PROVIDE 10d @ 2 1/2" O.C EDGE NAILING FROM (E) PLYWOOD TO FRAMING MEMBERS AROUND OPENINGS

- NOTES:**
- ANCHOR CURBS TO (E) NAILERS OVER (E) W21 WHERE OCCURS.
  - SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
  - PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBER PER (7) S8.1
  - WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN.
  - PROVIDE 10d @ 2 1/2" O.C EDGE NAILING FROM (E) PLYWOOD TO FRAMING MEMBERS AROUND OPENINGS



**1 ENLARGED PLAN AT RTU-1**

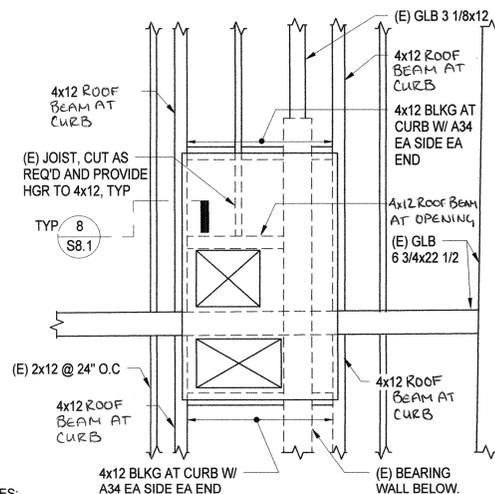
1/2" = 1'-0"



- NOTES:**
- LOCATE UNIT SO NEW OPENINGS CLEAR (E) BEARING WALL.
  - SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
  - PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBER PER (7) S8.1
  - WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN.
  - PROVIDE 10d @ 2 1/2" O.C EDGE NAILING FROM (E) PLYWOOD TO FRAMING MEMBERS AROUND OPENINGS

**8 ENLARGED PLAN AT RTU-9**

1/2" = 1'-0"

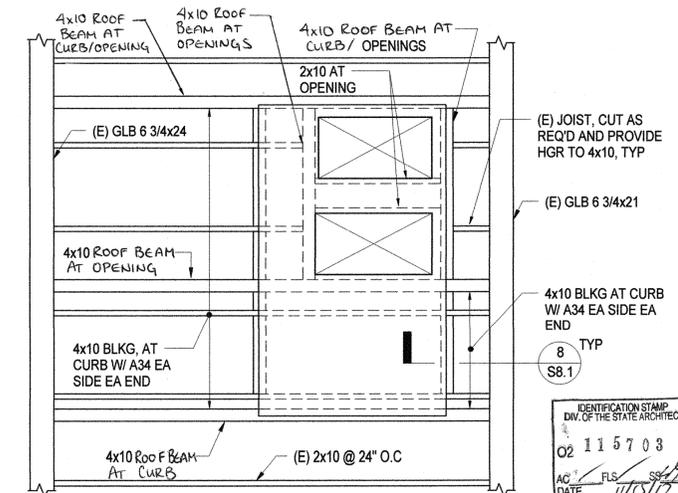


- NOTES:**
- LOCATE UNIT SO NEW OPENINGS CLEAR (E) BEARING WALL AND (E) GLB 6 3/4x22 1/2.
  - PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBER PER (7) S8.1
  - WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN.
  - PROVIDE 10d @ 2 1/2" O.C EDGE NAILING FROM (E) PLYWOOD TO FRAMING MEMBERS AROUND OPENINGS

**5 ENLARGED PLAN AT RTU-8**

1/2" = 1'-0"

- NOTES:**
- ANCHOR CURBS TO (E) NAILERS OVER (E) W21 WHERE OCCURS.
  - SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
  - PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBER PER (7) S8.1
  - WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN.
  - PROVIDE 10d @ 2 1/2" O.C EDGE NAILING FROM (E) PLYWOOD TO FRAMING MEMBERS AROUND OPENINGS



**2 ENLARGED PLAN AT RTU-2**

1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER  
KATHRYN BRIGGS  
NO. 5733  
Exp. 12-31-18  
STRUCTURAL

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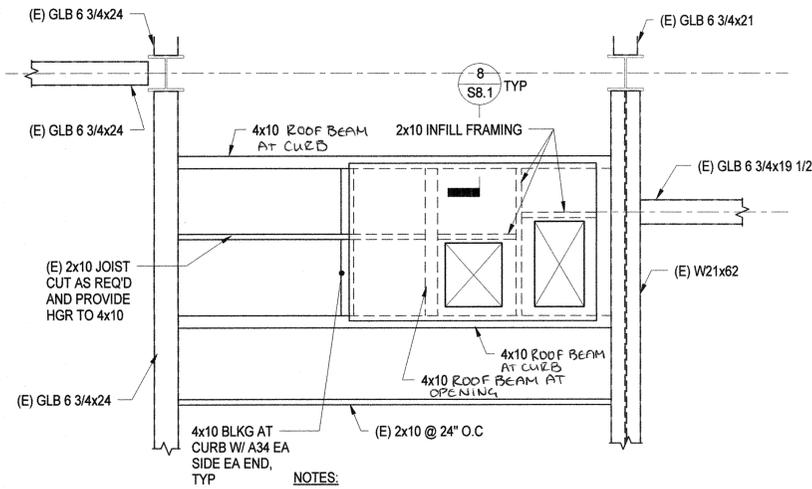
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ENLARGED FRAMING  
PLANS

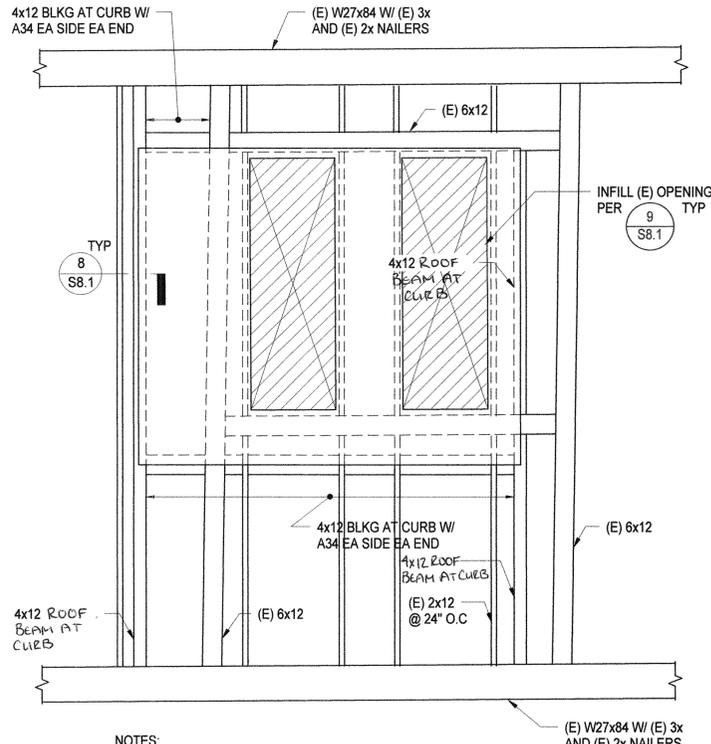
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S3.1

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02 115703  
AC: FLS  
DATE: 11/05/17



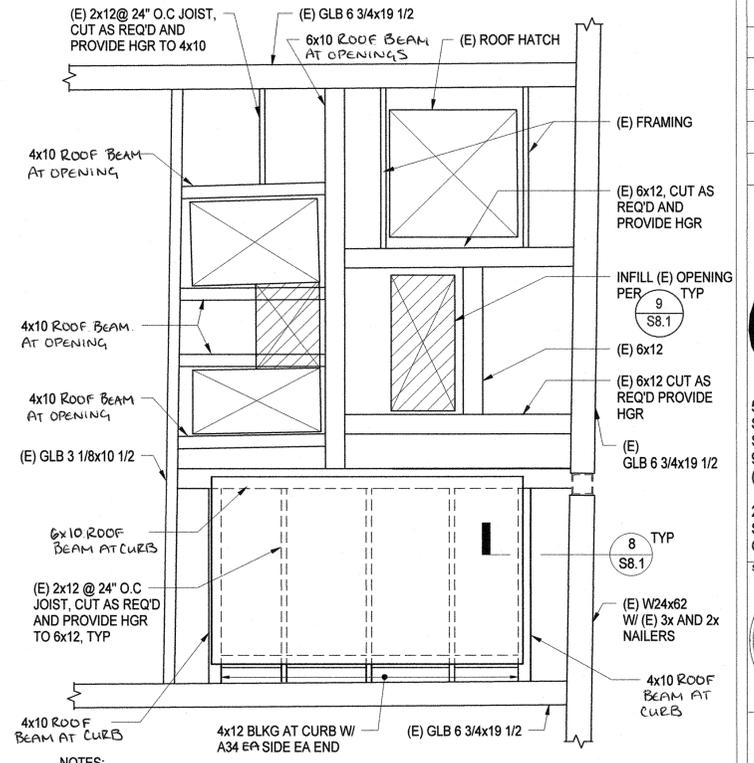
**NOTES:**

1. SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
2. PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBER PER 7  
S8.1
3. WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN.



**NOTES:**

1. SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
2. PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBERS PER 7  
S8.1
3. WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN



**NOTES:**

1. SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
2. PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBERS PER 7  
S8.1
3. WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN

**7 ENLARGED PLAN AT RTU-3**

1/2" = 1'-0"

**4 ENLARGED PLAN AT RTU-14**

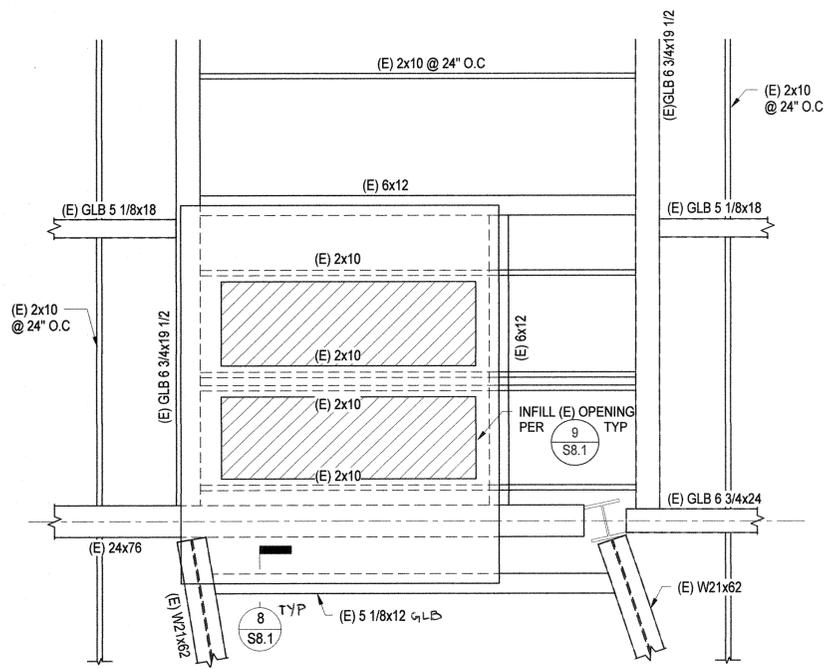
1/2" = 1'-0"

**1 ENLARGED PLAN AT RTU-12**

1/2" = 1'-0"

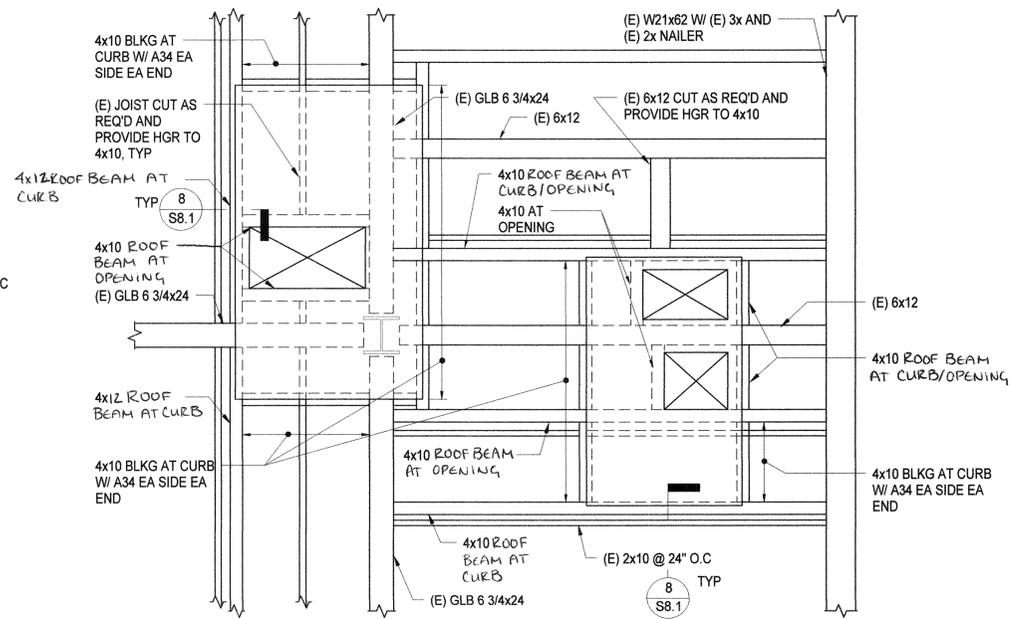
**Notes:**

1. SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
2. PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBER PER 7  
S8.1



**9 ENLARGED PLAN AT RTU-10**

1/2" = 1'-0"

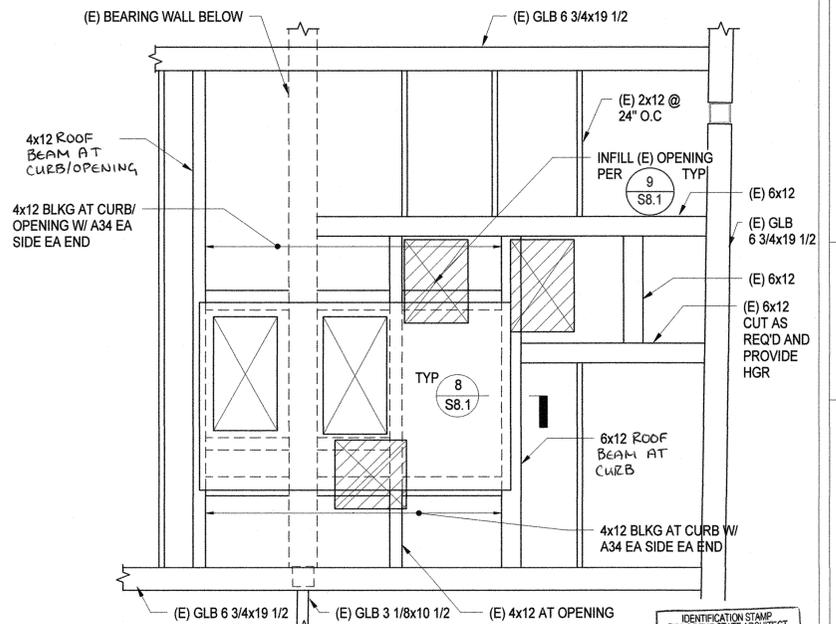


**NOTES:**

1. LOCATE RTU-16 SO NEW OPENING CLEARS (E) GLB 6 3/4x24.
2. LOCATE RTU-4 SO NEW OPENINGS CLEAR (E) 6x12.
3. SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
4. WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN
5. PROVIDE 10d @ 2 1/2" O.C. EDGE NAILING FORM (E) PLYWOOD FRMAING MEMBERS AROUND OPENINGS
6. PROVIDE HANGERS AT NEW FRAMING PER DETAIL 7  
S8.1

**6 ENLARGED PLAN AT RTU-4 AND RTU-16**

1/2" = 1'-0"



**NOTES:**

1. SEE MECHANICAL DRAWINGS FOR ANCHORAGE, UNIT INFO, ETC.
2. PROVIDE HANGERS AT EACH END OF NEW FRAMING MEMBERS PER 7  
S8.1
3. WHERE (E) JOIST OCCURS AT CURB LOCATION REMOVE AND REPLACE W/ 4x (E) JOIST DEPTH AS SHOWN

**3 ENLARGED PLAN AT RTU-13**

1/2" = 1'-0"

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**ENLARGED FRAMING PLANS**

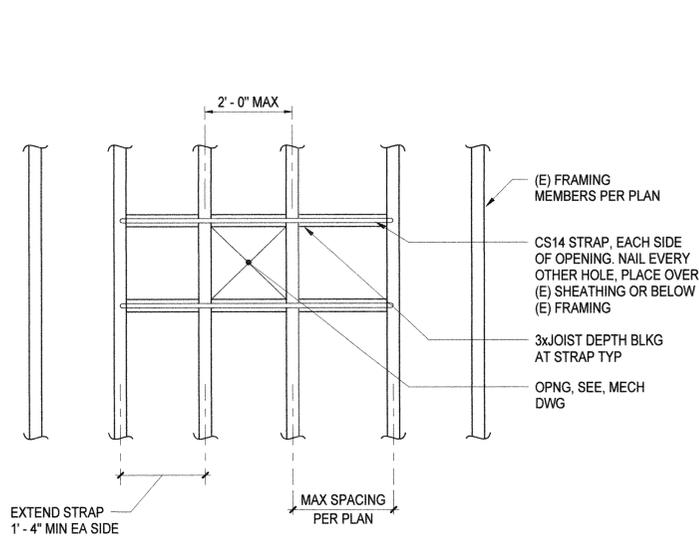
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**S3.2**

Of Sheets



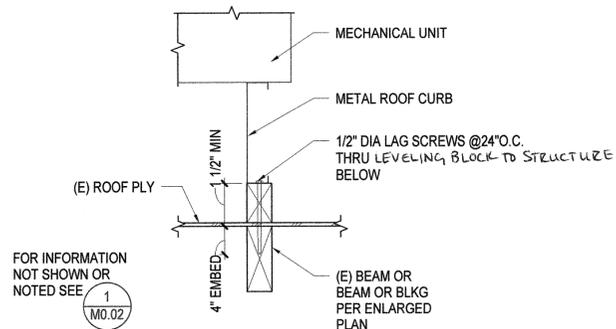
HANGER SCHEDULE				
JOIST SIZE	JOIST TO (E) WOOD BEAM		JOIST TO (E) STEEL WF BEAM	
	TYPICAL HANGER	FASTENERS INTO SUPPORT	TYPICAL HANGER	FASTENERS INTO NAILER
2x4	LUS24	4-10dx1-1/2"	HU24TF	6-16dx2-1/2"
2x6	LUS26	4-10dx1-1/2"	LB26	4-16dx2-1/2"
2x8	LUS28	6-10dx1-1/2"	LB28	4-16dx2-1/2"
2x10	LUS210	8-10dx1-1/2"	LB210AZ	6-16dx2-1/2"
2x12	LUS210	8-10dx1-1/2"	LB212AZ	6-16dx2-1/2"
4x6	HU46	12-16dx2-1/2"	HU46TF	10-16dx2-1/2"
4x8	HU48	14-16dx2-1/2"	HW48	4-10dx2-1/2"
4x10	HU48	14-16dx2-1/2"	HW48	4-10dx2-1/2"
4x12	HU48	14-16dx2-1/2"	HW48	4-10dx2-1/2"
6x6	HU66	12-16dx2-1/2"	HU66TF	10-16dx2-1/2"
6x8	HU68	14-10dx1-1/2"	HW68	4-10dx2-1/2"
6x10	HU68	14-10dx1-1/2"	HW68	4-10dx2-1/2"

- NOTES:**
- PROVIDE AND INSTALL NAILS INTO JOIST PER HANGER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES TO ACHIEVE MAXIMUM VALUES AS SPECIFIED BY MFR.
  - SEE DETAIL 6 FOR TYPICAL ATTACHMENT O BACKER BLOCK TO (E) WIDE FLANGE BEAMS.



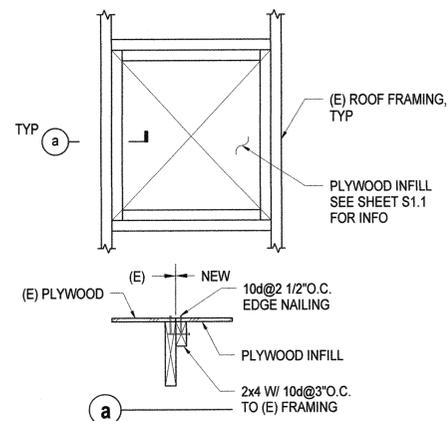
### 7 HANGER SCHEDULE

NTS



### 8 ROOFTOP UNIT ANCHORAGE DETAIL

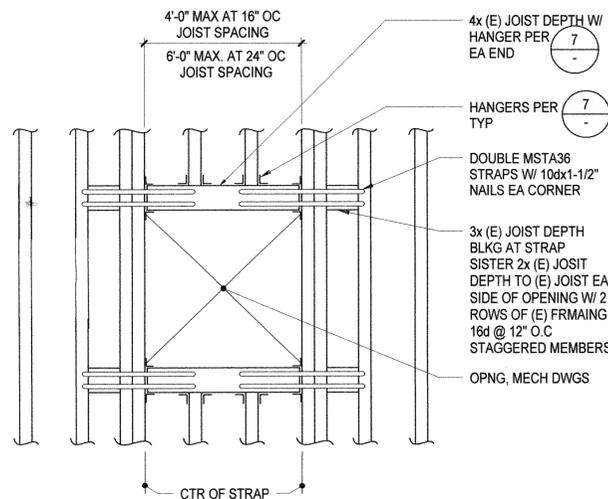
1" = 1'-0"



### 9 INFILL OF (E) ROOF OPENING

### 4 SMALL OPENING IN (E) ROOF

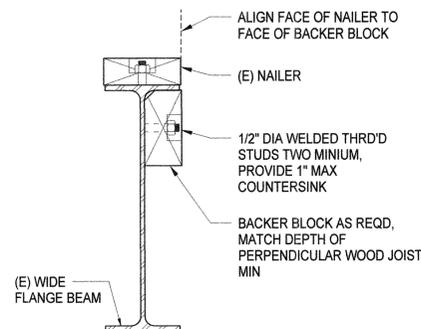
NTS



- NOTE:**
- STRAPS CAN BE PLACED OVER (E) SHEATHING OR BELOW (E) SHEATHING.
  - FOR OPENINGS NOT SHOWN ON STRUCTURAL PLANS, NOTIFY SEOR.

### 5 LARGE OPENINGS IN DIAPHRAGM

NTS



### 6 TYPICAL BACKER BLOCK AT (E) WF BEAM

NTS

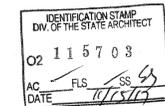
CONNECTION	NAILING <sup>a,m</sup>
1. Joist to sill or girder, toenail	3-8d
2. Bridging to joists, toenail each end	2-8d
3. 1" x 6" subfloor or less to each joist, face nail	2-8d
4. Wider than 1" x 6" subfloor to each joist, face nail	3-8d
5. 2" subfloor to joist or girder, blind and face nail	2-16d
6. Sole plate to joist or blocking, typical face nail Sole plate to joist or blocking, at braced wall panels	16d at 16" OC 3-16d per 16"
7. Top plate to stud, end nail	2-16d
8. Stud to sole plate	4-8d, toenail or 2-16d, end nail
9. Double studs, face nail	16d at 24" OC
10. Double top plates, typical face nail	16d at 16" OC UON
11. Blocking between joists or rafters to top plate, toenail	3-8d
12. Rim joist to top plate, toenail	8d at 6" OC
13. Top plates, laps and intersections, face nail	2-16d
14. Continuous header, two pieces	16d at 16" OC along each side
15. Ceiling joists to plate, toenail	3-8d
16. Continuous header to stud, toenail	4-8d
17. Ceiling joist, laps over partitions, face nail	3-16d <sup>o</sup>
18. Ceiling joists to parallel rafters, face nail	3-16d <sup>o</sup>
19. Rafter to plate, toenail	3-8d <sup>p</sup>
20. 1" brace to each stud and plate, face nail	2-8d
21. 1" x 8" sheathing or less to each bearing, face nail	3-8d
22. Wider than 1" x 8" sheathing to each bearing, face nail	3-8d
23. Built-up corner studs	16d at 24" OC
24. Built-up girder and beams	20d at 32" OC face nail at top & bottom & staggered on opposite sides 2-20d face nail at ends
25. 2" planks	16d at each bearing
26. Collar tie to rafter, face nail	3-10d
27. Jack rafter to hip, toenail Jack rafter to hip, facenail	3-10d 2-16d
28. Roof rafter to 2-by ridge beam, toenail Roof rafter to 2-by ridge beam, face nail	2-16d 2-16d
29. Joist to band joist, face nail	3-16d
30. Ledger strip, face nail	3-16d each stud
31. Wood structural panels and particleboard <sup>b</sup> Subfloor, roof and wall sheathing (to framing): 1/2" and less 19/32" - 3/4" 7/8" - 1" 1 1/8" - 1 1/4" Combination subfloor-underlayment (to framing): 3/4" and less 7/8" - 1" 1 1/8" - 1 1/4"	6d <sup>c</sup> 8d <sup>d</sup> or 6d <sup>e</sup> 8d <sup>e</sup> 8d <sup>e</sup> 10d <sup>d</sup> or 8d <sup>e</sup> 6d <sup>e</sup> 6d <sup>e</sup> 8d <sup>e</sup> 10d <sup>d</sup> or 8d <sup>e</sup>
32. Panel siding (to framing): 1/2" or less 5/8"	6d <sup>f</sup> 8d <sup>f</sup>
33. Fiberboard Sheathing: <sup>g</sup> 1/2" 25/32"	No. 11 ga <sup>h</sup> 6d <sup>d</sup> No. 11 ga <sup>h</sup> 8d <sup>d</sup>
34. Interior paneling 1/4" 3/8"	4d <sup>i</sup> 6d <sup>j</sup>

### 3 NAILING SCHEDULE

1" = 1'-0"

**FOOTNOTES:**

- USE COMMON WIRE NAILS EXCEPT WHERE OTHERWISE STATED.
- NAILS SPACED AT 6 INCHES ON CENTER AT EDGES. 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO CBC (IBC) SECTION 2305. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
- COMMON OR DEFORMED SHANK. (6d-2", 8d-2 1/2", 10d-3")
- COMMON. (6d-2", 8d-2 1/2", 10d-3")
- DEFORMED SHANK. (6d-2", 8d-2 1/2", 10d-3")
- CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.5.
- FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS FOR NON STRUCTURAL APPLICATIONS.
- CORROSION-RESISTANT ROOFING NAILS WITH 7/16" INCH-DIAMETER HEAD AND 1 1/2" INCH LENGTH FOR 1/2" INCH SHEATHING AND 1 3/4" INCH LENGTH FOR 25/32" INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.5.
- CASING OR FINISH NAILS SPACED 6-INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
- PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
- FOR ROOF SHEATHING APPLICATIONS, 8D NAILS ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
- FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
- FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
- FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
- FOR ROOF JOISTS AND RAFTERS, MINIMUM NAILING PER CBC (IBC) TABLE 2308.10.4.1.
- FOR ROOF SLOPES 3:12 OR GREATER IN WHICH CEILING JOISTS SERVE AS A TIE FOR ROOF RAFTERS, MINIMUM NAILING OR HOLDOWN STRAP MUST BE ADEQUATE TO WITHSTAND MINIMUM WIND UPLIFT PER CBC (IBC) TABLE 2308.10.1.

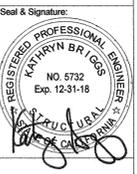


ISSUES

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SOLANO COMMUNITY COLLEGE DISTRICT  
VACAVILLE CENTER  
MECHANICAL EQUIPMENT REPLACEMENT

**BASE DESIGN**

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TYPICAL WOOD DETAILS

Date: 09/11/2017  
Scale: As indicated  
Drawn: TTD  
Job: 16201  
Sheet: S8.1

PACKAGE DX/HYDRONIC HEATING ROOF TOP UNITS																					
SYMBOL	MANUF/ MODEL	MIN/MAX CSA (CFM)	COOLING			HEATING COIL					FAN			ELECTRIC			WEIGHT (LBS)	NOTES			
			TOTAL (MBH)	SEER/EER	MBH	GPM	ΔT	ΔT	ΔT	ΔT	ΔT	FLUID PD (FT)	SUPPLY CFM/ESP	EXHAUST FAN (KW)	HP	VOLTS			PHASE	MCA	MOCPP
RTU-1	TRANE THC036	145/490	36.7	33.2	15	35	2.5	53	80	180	150	0.43	1200/0.75	0.65	0.75	460	3	11	15	780	1
RTU-2	TRANE THC048	145/470	47.9	39.7	15	55.5	3.7	53	85	180	150	1.2	1600	0.65	0.75	460	3	12.8	15	910	1
RTU-3	TRANE THC036	155/390	36.7	33.2	15	35	2.5	53	80	180	150	0.43	1200/0.75	0.65	0.75	460	3	11	15	780	1
RTU-4	TRANE THC036	145/460	36.7	33.2	15	35	2.5	53	80	180	150	0.43	1200/0.75	0.65	0.75	460	3	11	15	780	1
RTU-5	TRANE THC048	145/460	47.9	39.7	15	55.5	3.7	53	85	180	150	1.2	1600	0.65	0.75	460	3	12.8	15	910	1
RTU-6	TRANE THC036	155/380	36.7	33.2	15	35	2.5	53	80	180	150	0.43	1200/0.75	0.65	0.75	460	3	11	15	780	1
RTU-7	TRANE THC048	160/500	47.9	39.7	15	55.5	3.7	53	85	180	150	1.2	1600	0.65	0.75	460	3	12.8	15	910	1
RTU-8	TRANE THC036	55/130	36.7	33.2	15	35	2.5	53	80	180	150	0.43	1200/0.75	0.65	0.75	460	3	11	15	780	1
RTU-9	TRANE THC036	50/130	36.7	33.2	15	35	2.5	53	80	180	150	0.43	1200/0.75	0.65	0.75	460	3	11	15	780	1
RTU-10	TRANE THC092	200/300	88.3	76.5	/12.6	87.8	5.8	53	80	180	150	2.7	3000	0.65	1.5	460	3	19.9	25	1230	1, 3
RTU-11	TRANE THC102	320/400	95.2	86.3	/12.5	99.6	6.6	53	80	180	150	3.4	3400	0.65	2	460	3	21.6	25	1230	1, 3
RTU-12	TRANE THC092	240/380	88.3	76.5	/12.6	87.8	5.8	53	80	180	150	2.7	3000	0.65	1.5	460	3	19.9	25	1230	1, 3, 4
RTU-13	TRANE THC060	220/890	58.6	51.3	15	47.78	3.2	53	75	180	150	0.9	2000	0.65	1	460	3	13.8	20	950	1
RTU-14	TRANE THD210	540/2020	208.7	185.5	/12	228.40	15.2	53	83	180	150	10	7000	0.56	5	460	3	43	60	2330	1, 3
RTU-15	TRANE THC060	1620	64.7	58.5	15	101.9	6.8	28	75	180	150	9	1620	0.65	1	460	3	13.8	20	960	1, 2
RTU-16	TRANE THC074	2000	77	72.9	/13.1	135.4	9	28	80	180	150	8.4	2000	0.65	1	460	3	18.7	25	1310	1, 2
RTU-17	TRANE THC060	1620	64.7	58.5	15	101.9	6.8	28	75	180	150	9	1620	0.65	1	460	3	13.8	20	960	1, 2

- NOTES:
- PROVIDE CURB, BELT DRIVE, PROVIDE WITH 1" THROWAWAY FILTERS MERV 8, CONVENIENCE OUTLET, NON-FUSED DISCONNECT, THRU THE BASE ELECTRICAL CONNECTION, ECONOMIZER SECTIONS AND DEMAND CONTROL VENTILATION CONTROLS. REFER TO 3/M.O.02 FOR MOUNTING DETAIL.
  - PROVIDE WITH FROSTAT AND CRANKCASE HEATERS (UNITS VENTILATING 100% OUTSIDE AIR).
  - PROVIDE WITH DUCT SMOKE DETECTOR IN THE SUPPLY DUCT FOR THE UNIT.
  - SIDE DISCHARGE UNIT.

### INDOOR DX/HYDRONIC HEATING HORIZONTAL UNITS

SYMBOL	MANUF/ MODEL	OUTDOOR UNIT	MIN OSA (CFM)	SENSIBLE COOLING (MBH)	HEATING COIL					FAN			ELECTRIC			WEIGHT (LBS)	NOTES			
					MBH	GPM	ΔT	ΔT	ΔT	ΔT	ΔT	FLUID PD (FT)	CFM	ESP	HP			VOLTS	PHASE	MCA
FCU-1	TRANE GAMS0A048	CU-1	570	29.9	49.9	3	70	99	18	15	0.5	1600	0.5	3/4	208	1	8	15	190	1, 2
FCU-2	TRANE GAMS0A048	CU-2	570	29.8	49.9	3	70	99	18	15	0.5	1600	0.5	3/4	208	1	8	15	190	1, 2
FCU-3	TRANE GAMS0A018	CU-3	170	12.3	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	1, 2
FCU-4	TRANE GAMS0A018	CU-4	50	10.1	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	1, 2
FCU-5	TRANE GAMS0A018	CU-5	260	10.2	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	1, 3
FCU-6	TRANE GAMS0A018	CU-6	100	6.1	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	1, 3
FCU-7	TRANE GAMS0A018	CU-7	80	7.5	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	1, 3
FCU-8	TRANE GAMS0A018	CU-8	280	11.1	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	1, 3
FCU-9	TRANE GAMS0A018	CU-9	40	12.3	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	1, 3
FCU-10	TRANE GAMS0A018	CU-10	90	13.5	28.8	3	70	120	180	150	0.4	600	0.5	1/3	208	1	4	15	150	1, 3

- NOTES:
- PROVIDE WITH CONDENSATE PUMP, FILTER RACK, 1" THROWAWAY FILTERS (MERV 8), PROGRAMMABLE THERMOSTAT AND DRAIN PAN. SET FAN SPEED TO ACHIEVE AIR VOLUME STATED ABOVE.
  - REFER TO 3/M.O.02 FOR MOUNTING DETAIL (METAL DECK, CONC FILL).
  - REFER TO 3/M.O.02 FOR MOUNTING DETAIL (WOOD STRUCTURE).

### CONDENSING UNITS

SYMBOL	MANUFACTURER /MODEL	INDOOR UNIT	REFRIG TYPE	OSA TEMP (F)	COOLING			ELECTRIC			WEIGHT (LBS)	NOTES
					TOTAL (MBH)	SEER	VOLTS	PHASE	MCA	MOCPP		
CU-1	TRANE 4TRR4048L	FCU-1	410A	95	42.1	14.5	208	1	24	40	200	1
CU-2	TRANE 4TRR4048L	FCU-2	410A	95	43.1	14.5	208	1	24	40	200	1
CU-3	TRANE 4TRR4018L	FCU-3	410A	95	17	15.5	208	1	12	20	150	1
CU-4	TRANE 4TRR4018L	FCU-4	410A	95	10.8	15.5	208	1	12	20	150	1
CU-5	TRANE 4TRR4018L	FCU-5	410A	95	16.8	15.5	208	1	12	20	150	1
CU-6	TRANE 4TRR4018L	FCU-6	410A	95	6.5	15.5	208	1	12	20	150	1
CU-7	TRANE 4TRR4018L	FCU-7	410A	95	9.7	15.5	208	1	12	20	150	1
CU-8	TRANE 4TRR4018L	FCU-8	410A	95	17.8	15.5	208	1	12	20	150	1
CU-9	TRANE 4TRR4018L	FCU-9	410A	95	12.5	15.5	208	1	12	20	150	1
CU-10	TRANE 4TRR4018L	FCU-10	410A	95	15.7	15.5	208	1	12	20	150	1

- NOTES:
- REFER TO 2/M.O.02 FOR MOUNTING DETAIL.

### EXHAUST FAN

SYMBOL	MANUFACTURER /MODEL	CONFIG	SERVING	FAN			ELECTRICAL					WEIGHT (LBS)	CONTROL	NOISE (SONES)	NOTES
				CFM	ESP	HP/WATTS	VOLT	PHASE	FLA	MOCPP	DRIVE				
EF-1	GREENHECK CSP-A110	INLINE	JANITOR CLOSET	75	0.3	/18.6	120	1	0.62	15	DIRECT	20	TIME CLOCK	0.9	1
EF-2	GREENHECK G-060-VG	ROOF MOUNTED	RESTROOM	80	0.4	1/10	120	1		15	DIRECT	20	LIGHTS	4.2	1, 2

- NOTES:
- PROVIDE WITH BACKDRAFT DAMPER. REFER TO 6/M.O.02 FOR MOUNTING DETAIL.
  - PROVIDE WITH ROOF CURB.

## GENERAL MECHANICAL NOTES

- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.), 2013 CMC.
- ALL SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY, FEDERAL AND STATE CODES AND ORDINANCES, AND SHALL MEET ALL REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.
- PRIOR TO SUBMISSION OF BID, REVIEW FULL SET OF NEW CONSTRUCTION DRAWINGS (INCLUDING ALL OTHER TRADES) INCLUDE ANY ADDITIONAL PIPE OR DUCT OFF-SETS THAT ARE NOT CURRENTLY SHOWN ON DRAWINGS BUT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK RESULTING FROM LACK OF PROPER INITIAL APPRAISAL OF ENTIRE SCOPE OF WORK. SUBMIT REQUESTS FOR INFORMATION (RFIS) AS REQUIRED TO ANSWER ANY QUESTIONS THAT MAY ARISE DURING BIDDING PHASE. CLEARLY INDICATE SCOPE INCLUSION AND EXCLUSION IN BID.
- FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, AND PERFORM ALL REQUIRED OPERATIONS TO PROVIDE COMPLETE AND OPERABLE MECHANICAL SYSTEM, IN ACCORDANCE WITH THE FULL INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS AND PER STANDARD TRADE PRACTICES.
- WORKMANSHIP SHALL BE FIRST CLASS THROUGHOUT AND PERFORMED ONLY BY COMPETENT AND EXPERIENCED WORKMEN IN A MANNER SATISFACTORY TO THE OWNER AND ARCHITECT.
- ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED.
- COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT.
- PROVIDE BIRD SCREENS AT ALL INTAKE AND EXHAUST OPENINGS.
- FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS AS REQUIRED TO SEAL WEATHER TIGHT. (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).
- PROVIDE UL-LISTED/APPROVED THROUGH PENETRATION FIRE-STOPPING AT ALL DUCT, PIPE AND CONDUIT PENETRATIONS OF FIRE-RATED WALLS, FLOORS, CEILING/FLOOR OR CEILING/ROOF ASSEMBLIES AND SHAFTS COMPLIANT WITH CHAPTER 7 OF THE 2013 CALIFORNIA BUILDING CODE.
- LIMITING TRANSMISSION OF NOISE AND VIBRATIONS IS EXTREMELY IMPORTANT. CONTRACTOR TO PAY PARTICULAR ATTENTION THAT PIPING, EQUIPMENT, AND DUCTWORK ARE INSTALLED SO AS NOT TO CHATTER OR RUB AGAINST OTHER MATERIALS, EQUIPMENT OR BUILDING STRUCTURE. PROVIDE ISOMODE PADS, INSULATION OR OTHER SUITABLE MATERIALS TO AVOID DIRECT CONTACT AND NOISY CONDITIONS. SUFFICIENT CLEARANCES OF PIPING AND ITS ASSOCIATED COMPONENTS SHALL BE PROVIDED FROM ADJACENT JOIST, STUDS, BEAMS, COLUMNS DRYWALL, ETC. TO ALLOW FOR PIPE MOVEMENT DUE TO THERMAL EXPANSION AND STILL NOT COME IN CONTACT WITH STRUCTURE. INSULATION SHALL BE CONTINUOUS THROUGH PIPE HANGERS (PROVIDE SHEET METAL INSULATION SHIELD AT EACH HANGER).
- WHERE JOIST, STUD OR BEAM PENETRATIONS ARE REQUIRED, SIZE TO PROVIDE ADEQUATE CLEARANCE FROM PIPE BUT DO NOT SIZE FOR INSULATION. PROVIDE "ACCOUSTO-PLUMB" ISOLATORS AT EACH SUCH PIPE PENETRATION AND BUTT ENDS OF INSULATION TIGHT AGAINST FRAMING TO ELIMINATE ANY CONNECTIVE HEAT LOSS. REVIEW ALL SUCH PENETRATIONS WITH ARCHITECT AND GENERAL CONTRACTOR BEFORE DRILLING OR NOTCHING. SEE STRUCTURAL DRAWINGS FOR CRITERIA ON JOIST PENETRATIONS - VERIFY WITH GENERAL CONTRACTOR.
- PROVIDE DIELECTRIC INSULATING CONNECTIONS BETWEEN ALL DISSIMILAR METALS.
- NOTIFY OWNER AND GENERAL CONTRACTOR 48 HOURS IN ADVANCE BEFORE ANY TESTING.
- PROVIDE DUCT AND PIPE INSULATION AND THERMOSTATS PER TITLE 24 REQUIREMENTS AND SPECIFICATIONS.
- PER CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11 OF TITLE 24, CALIFORNIA CODE OF REGULATIONS), PROTECT DUCT OPENINGS AND MECHANICAL EQUIPMENT DURING CONSTRUCTION. LIMIT USE OF PERMANENT HVAC DURING CONSTRUCTION TO CONDITIONING NECESSARY FOR MATERIAL AND EQUIPMENT INSTALLATION. IF PERMANENT HVAC IS USED DURING CONSTRUCTION, INSTALL MERV-8 FILTERS ON RETURNS, AND REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.
- PER CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11 OF TITLE 24, CALIFORNIA CODE OF REGULATIONS), PROVIDE AT LEAST MERV-8 FILTERS IN REGULARLY OCCUPIED SPACES OF MECHANICALLY VENTILATED BUILDINGS.
- PER CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11 OF TITLE 24, CALIFORNIA CODE OF REGULATIONS), DO NOT INSTALL EQUIPMENT THAT CONTAINS CFCS OR HALONS.
- THE FIRST 10 FEET OF SUPPLY AND RETURN DUCTS CONNECTED TO THE ROOFTOP AND FAN COIL UNITS SHALL BE LINED WITH MINIMUM 1" SOUND ABSORBING LINING. DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. INSTALL PER MANUFACTURERS INSTRUCTIONS.

## MECHANICAL SCOPE OF WORK

- REPLACE EXISTING WATER SOURCE HEAT PUMP UNITS WITH DX COOLING/HYDRONIC HEATING UNITS. MODIFY DUCTS, DIFFUSERS AND PIPING AS NECESSARY.
- REMOVE EXISTING COOLING TOWER AND BOILER.
- PROVIDE 2 NEW BOILERS AND HEATING HOT WATER PUMPS.
- MODIFY EXISTING CONDENSER WATER PIPING SYSTEM FOR USE AS HEATING HOT WATER SYSTEM.
- PROVIDE (N) IN-LINE EXHAUST FANS AND ASSOCIATED DUCTWORK FOR TWO JANITOR CLOSETS.
- MODIFY RETURN GRILLES/DUCTS AS SHOWN.
- RELOCATE THERMOSTATS AS SHOWN.
- ALL MECHANICAL CONTROLS SHALL BE FULLY INTERFACED WITH THE DISTRICT'S EXISTING BMS SYSTEM AND MATCH ALL CURRENT DISTRICT GRAPHIC TEMPLATES. CONTRACTOR IS NOT REMOVE ANY CONTROLS WIRING AND/OR CONDUIT UNLESS DIRECTED TO BY DESIGN-BUILD CONTROLS CONTRACTOR.

## DEMAND CONTROL VENTILATION

PROVIDE ROOFTOP UNITS WITH HONEYWELL JADE CONTROLLER FOR DEMAND CONTROL VENTILATION CONTROLS. SET MINIMUM AND MAXIMUM OUTSIDE AIR FLOWS TO VALUES IN SCHEDULE. PROVIDE CARBON DIOXIDE SENSOR MOUNTED IN SPACE CONDITIONED BY UNIT ON WALL 5 FT AFF ADJACENT TO THERMOSTAT. REFER TO 2013 CALIFORNIA ENERGY CODE SECTION 120.1(c) (4).

ECONOMIZER TO ALLOW OUTSIDE AIR DAMPERS TO OPEN 100%.

## LOW NOX GAS FIRED BOILER SCHEDULE

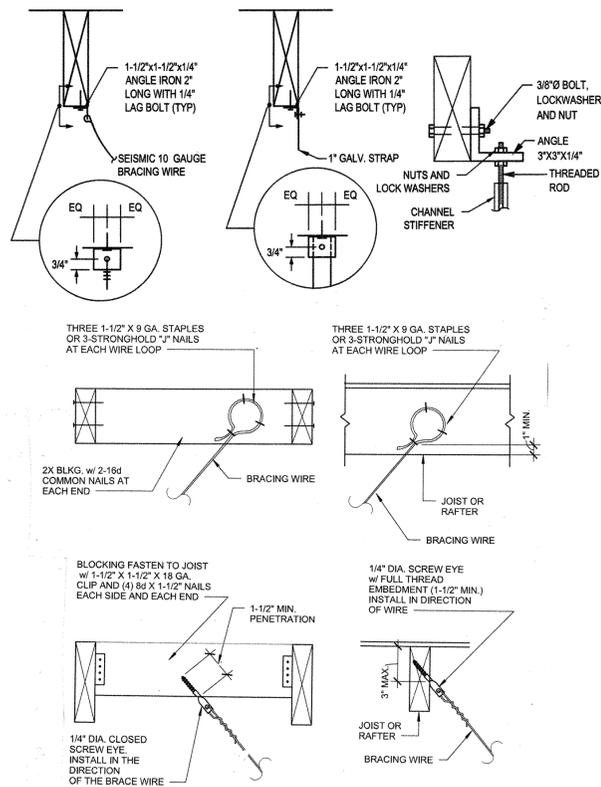
SYMBOL	MANUFACTURER /MODEL	LOCATION	NATURAL GAS			WATER DATA			ELECTRIC				WEIGHT (LBS)	NOTES		
			INPUT (MBH)	OUTPUT (MBH)	EFF %	EWT	LWT	GPM	VOLUME (GAL)	DROP (FT WATER)	FLUE (IN)	VOLTS			PHASE	FLA
B-1	LAARS PENNANT PNC0750	ROOF	690	580	85%	150	180	55	---	---	120	1	12	15	SEE BELOW	1
B-2	LAARS PENNANT PNC0750	ROOF	690	580	85%	150	180	55	---	---	120	1	12	15	SEE BELOW	1

## PUMP SCHEDULE

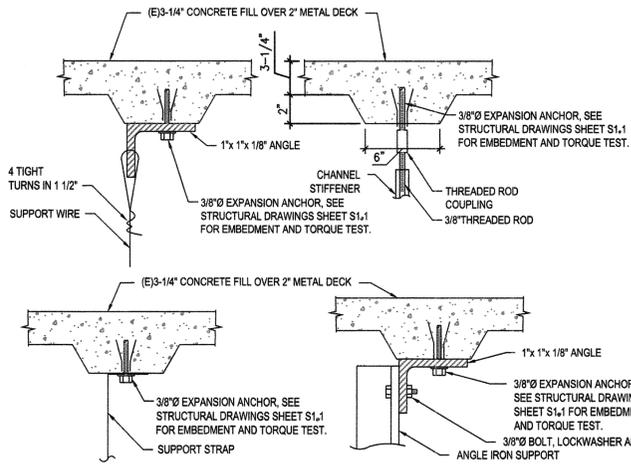
SYMBOL	MANUFACTURER /MODEL	LOCATION	SYSTEM	TYPE	FLOW (GPM)	HEAD (FT OF WATER)	RPM	ELECTRICAL			WEIGHT (LBS)	NOTES
								VOLT	PHASE	HP		
HHWP-1	BELL & GOSSETT SERIES E-80 1.5XL 5X7C	ROOF	HEATING HOT WATER	BASE	35	30	---	460	3	1	SEE BELOW	1
HHWP-2	BELL & GOSSETT SERIES E-80 1.5XL 5X7C	ROOF	HEATING HOT WATER	BASE	35	30	---	460	3	1	SEE BELOW	1

- NOTES:
- (2) BOILERS AND (2) PUMPS PROVIDED AS A PACKAGE ON A SKID FLOWTHERM FTHH2-750-2P. HEATING HOT WATER SYSTEM PUMPS TO BE PROVIDED WITH VFDS. TOTAL WEIGHT OF SKID IS 6295 LBS.

## DIFFUSER, GRILLE AND REGISTER SCHEDULE



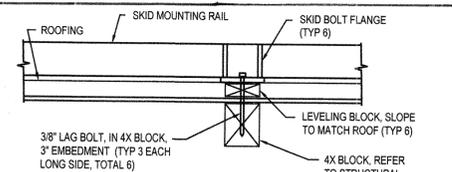
**6 UPPER ATTACHMENT DETAIL**  
SCALE: NONE



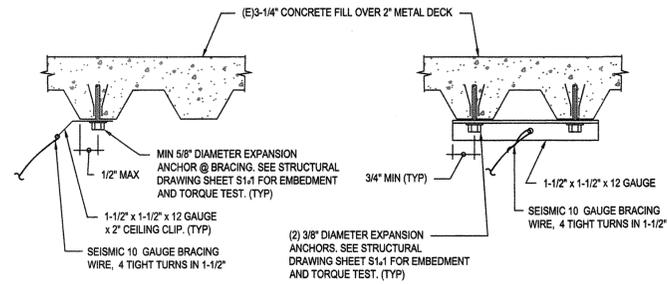
S FOR COPPER REFRIGERANT TUBING WITH THE FOLLOWING  
4G AND MINIMUM ROD SIZES:  
: MAXIMUM SPAN, 60 INCHES; MINIMUM ROD SIZE, 3/8 INCH.

S FOR DRAWN-TEMPER COPPER HYDRONIC PIPING WITH THE  
1MUM SPACING AND MINIMUM ROD SIZES:  
: MAXIMUM SPAN, 5 FEET; MINIMUM ROD SIZE, 3/8 INCH.

**11 SPACING SUPPORTS**  
SCALE: N.T.S

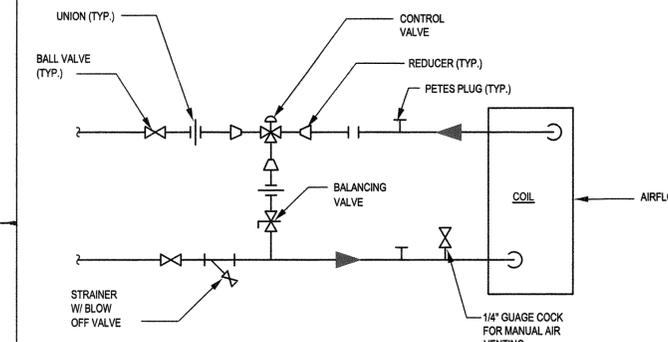


**10 BOILER/PUMP SKID MOUNTING DETAIL**  
SCALE: NONE



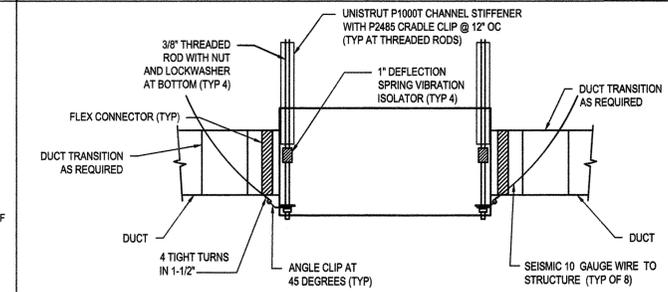
**OPTION 1**  
NOTE:  
POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE.

**BRACING WIRE CONNECTION TO STRUCTURE**



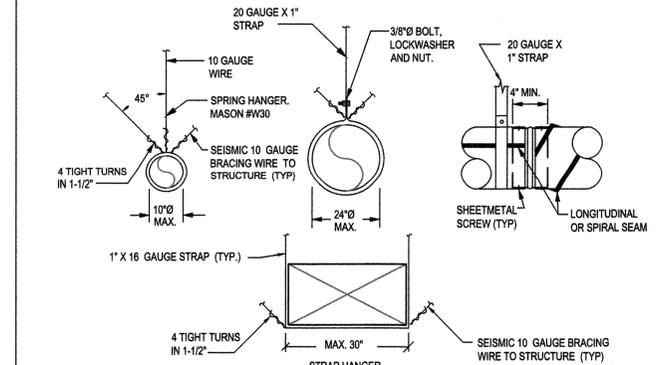
NOTES  
1. THREE WAY VALVE SHOWN, TO BE INSTALLED AT FCU-1, FCU-6, RTU-15 & RTU-14.  
ALL OTHER UNITS PROVIDE WITH TWO WAY VALVE.

**7 HOT WATER COIL CONNECTION DIAGRAM**  
SCALE: NONE



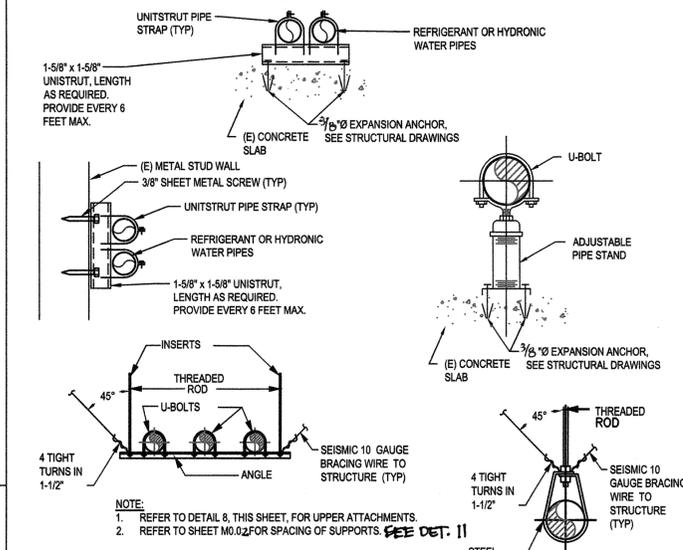
NOTE:  
REFER TO DETAIL 8, THIS SHEET, FOR UPPER ATTACHMENTS.

**6 IN-LINE EXHAUST FAN MOUNTING DETAIL**  
SCALE: NONE



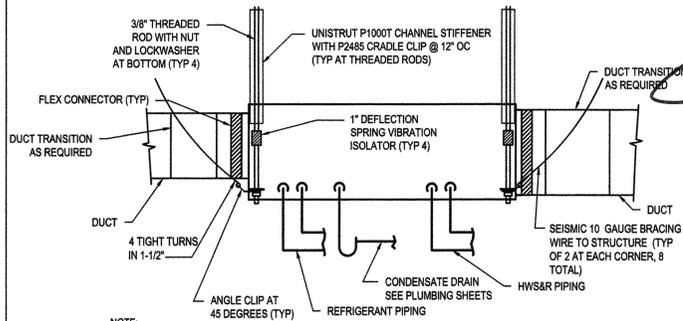
NOTES  
1. HANGERS AND TRAPEZE ANGLES TO BE SIZED IN ACCORDANCE WITH SMAGNA DUCT CONSTRUCTION STANDARDS. SEE DET. 11 FOR SPACING OF SUPPORTS.  
2. REFER TO DETAIL 8, THIS SHEET, FOR UPPER ATTACHMENTS TO STRUCTURE ABOVE, BRACING WIRE AND CONNECTIONS AT 2ND FLOOR STRUCTURE.

**5 DUCTWORK MOUNTING DETAIL**  
SCALE: NONE



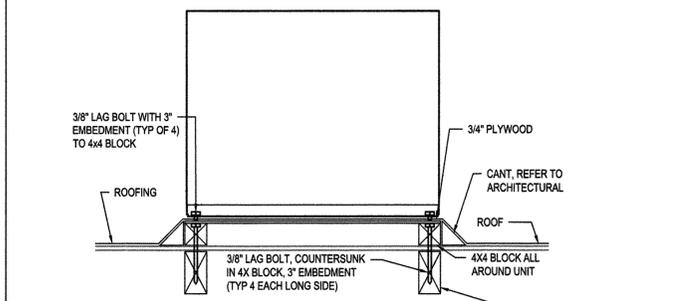
NOTE:  
1. REFER TO DETAIL 8, THIS SHEET, FOR UPPER ATTACHMENTS.  
2. REFER TO SHEET M0.02 FOR SPACING OF SUPPORTS. SEE DET. 11

**4 PIPE MOUNTING DETAIL**  
SCALE: NONE

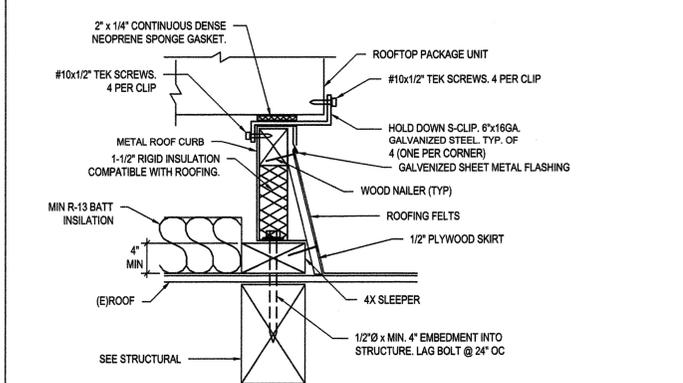


NOTE:  
REFER TO DETAIL 8, THIS SHEET, FOR UPPER ATTACHMENTS TO STRUCTURE ABOVE, BRACING WIRE AND CONNECTIONS AT 2ND FLOOR STRUCTURE.

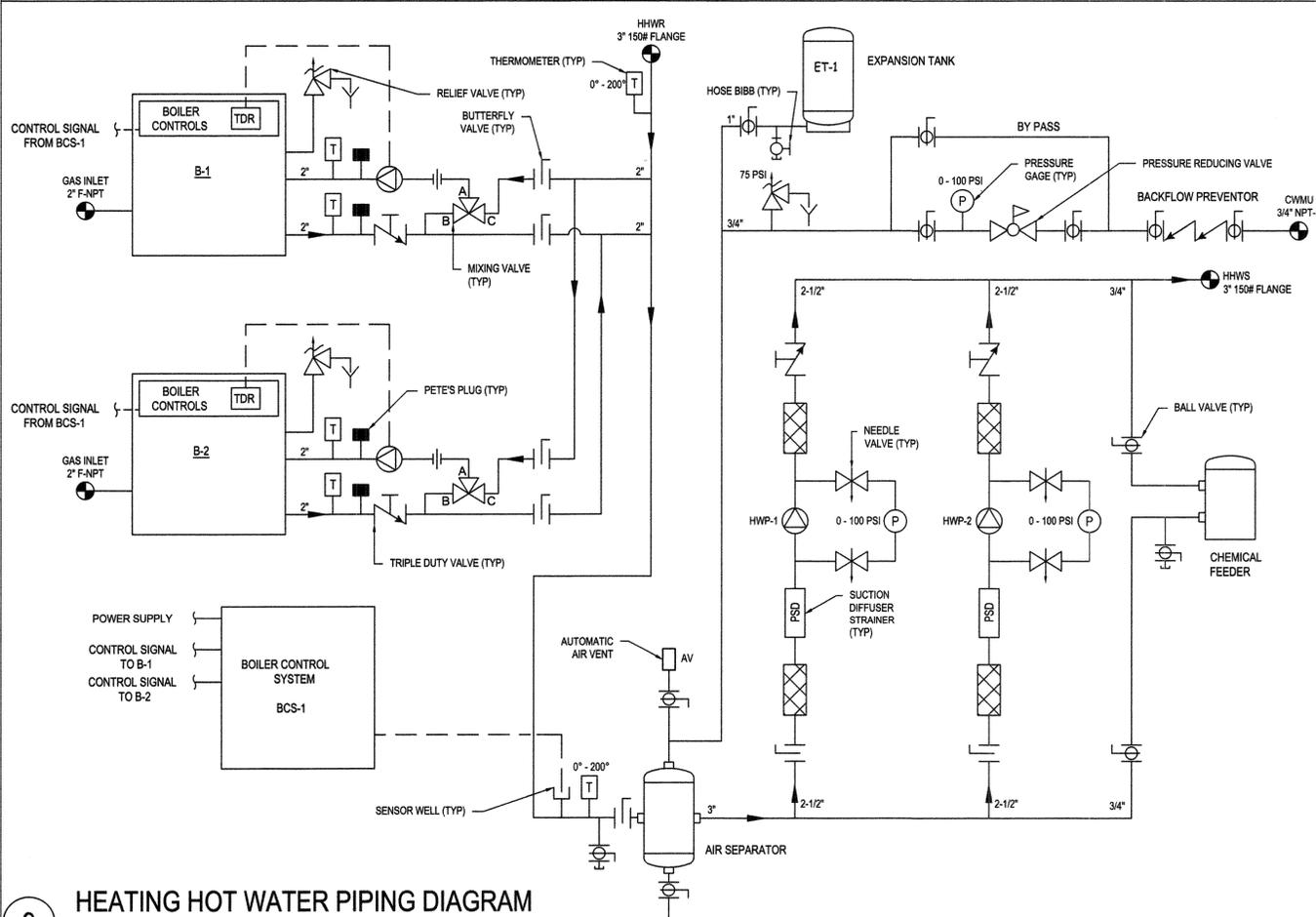
**3 FANCOIL UNIT MOUNTING DETAIL**  
SCALE: NONE



**2 CONDENSING UNIT MOUNTING DETAIL**  
SCALE: NONE



**1 ROOFTOP UNIT MOUNTING DETAIL**  
SCALE: NONE



**9 HEATING HOT WATER PIPING DIAGRAM**  
SCALE: NONE

ISSUES

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Seal & Signature:



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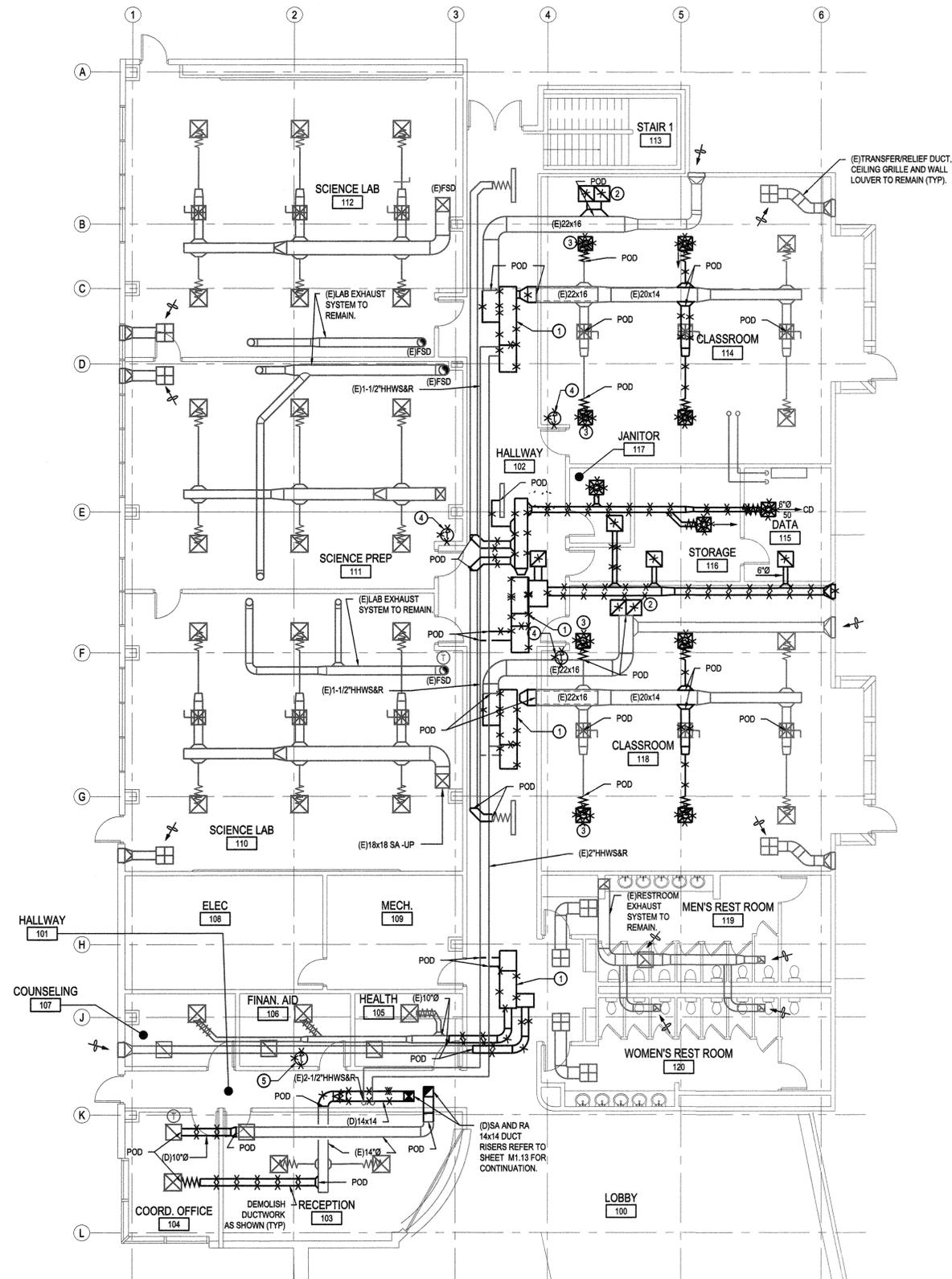
02 115703  
DATE 11/15/12

MECHANICAL DETAILS

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet: M0.02  
Of: 2 Sheets

**SHEET NOTES**

- ① DEMOLISH FAN COIL UNIT AND SUPPORTS ABOVE CEILING. DUCTWORK AND CONDENSER WATER PIPING TO REMAIN FOR CONNECTION TO NEW EQUIPMENT EXCEPT AS NOTED OTHERWISE.
- ② RETURN GRILLE TO BE RELOCATED. REFER TO M2.10 FOR NEW LOCATION.
- ③ SUPPLY DIFFUSER TO BE RELOCATED. REFER TO M2.10 FOR NEW LOCATION.
- ④ REMOVE THERMOSTAT AND WIRING TO ABOVE CEILING, THERMOSTAT TO BE RELOCATED. REFER TO SHEET M2.10.
- ⑤ DEMOLISH THERMOSTAT AND WIRING TO ABOVE CEILING. WIRING TO BE CONNECTED TO (N) TEMPERATURE SENSOR IN NEW LOCATION.



**1** FIRST FLOOR NORTH MECHANICAL DEMOLITION PLAN  
SCALE: 1/8" = 1'

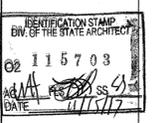
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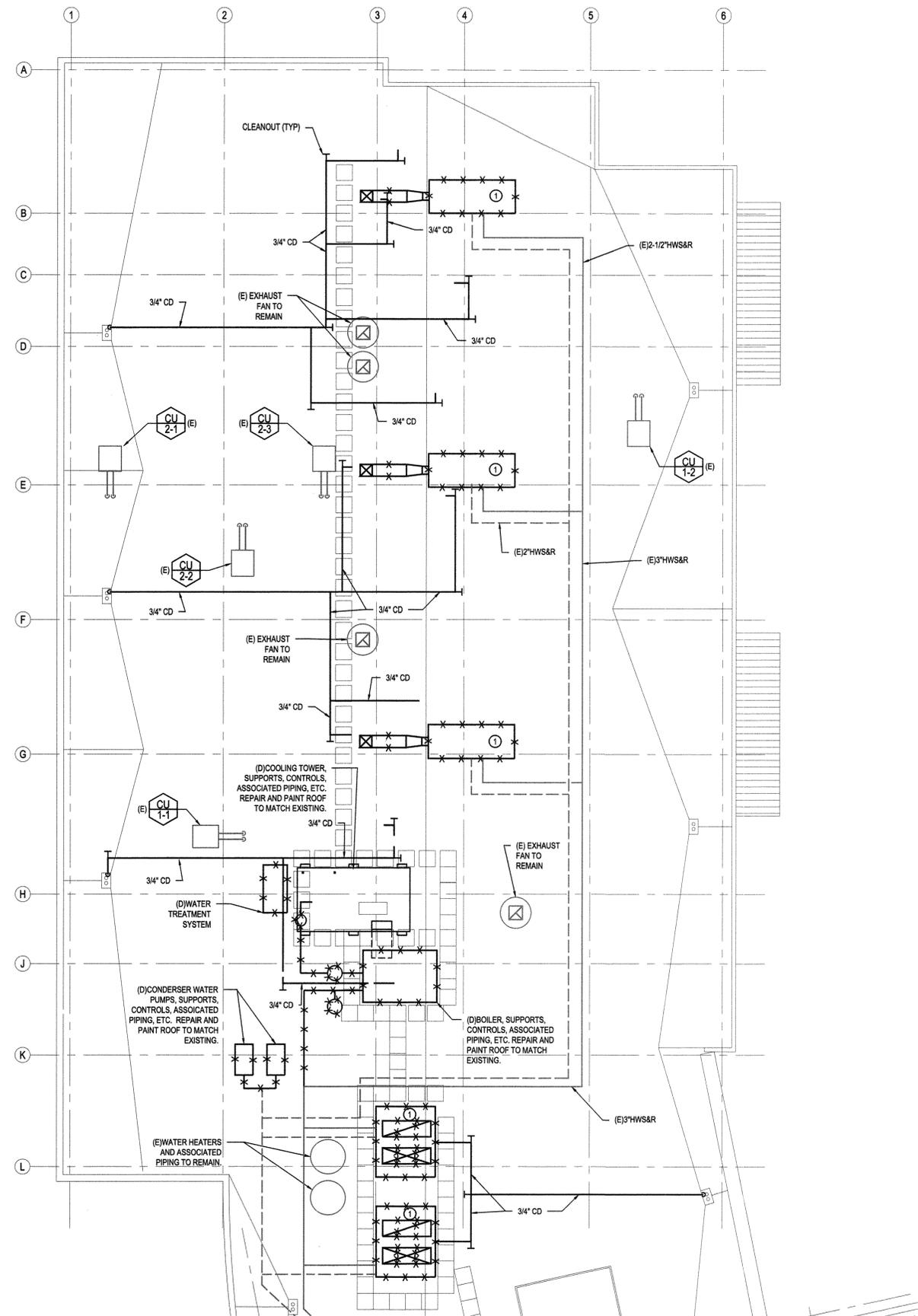
FIRST FLOOR NORTH  
MECHANICAL  
DEMOLITION PLAN

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**M1.10**  
Of Sheets









**SHEET NOTES**

- ① DEMOLISH ROOFTOP UNIT AND CURB. DUCTWORK AND CONDENSER WATER PIPING TO REMAIN FOR CONNECTION TO NEW EQUIPMENT EXCEPT AS NOTED OTHERWISE.

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ROOF NORTH  
MECHANICAL  
DEMOLITION PLAN

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**M1.14**  
Of \_\_\_\_\_ Sheets

**1 ROOF NORTH MECHANICAL DEMOLITION PLAN**  
SCALE: 1/8" = 1'



**1** ROOF SOUTH MECHANICAL DEMOLITION PLAN  
SCALE: 1/8" = 1'

**SHEET NOTES**

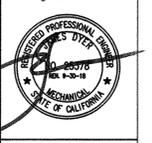
① DEMOLISH ROOFTOP UNIT AND CURB. DUCTWORK AND CONDENSER WATER PIPING TO REMAIN FOR CONNECTION TO NEW EQUIPMENT EXCEPT AS NOTED OTHERWISE.

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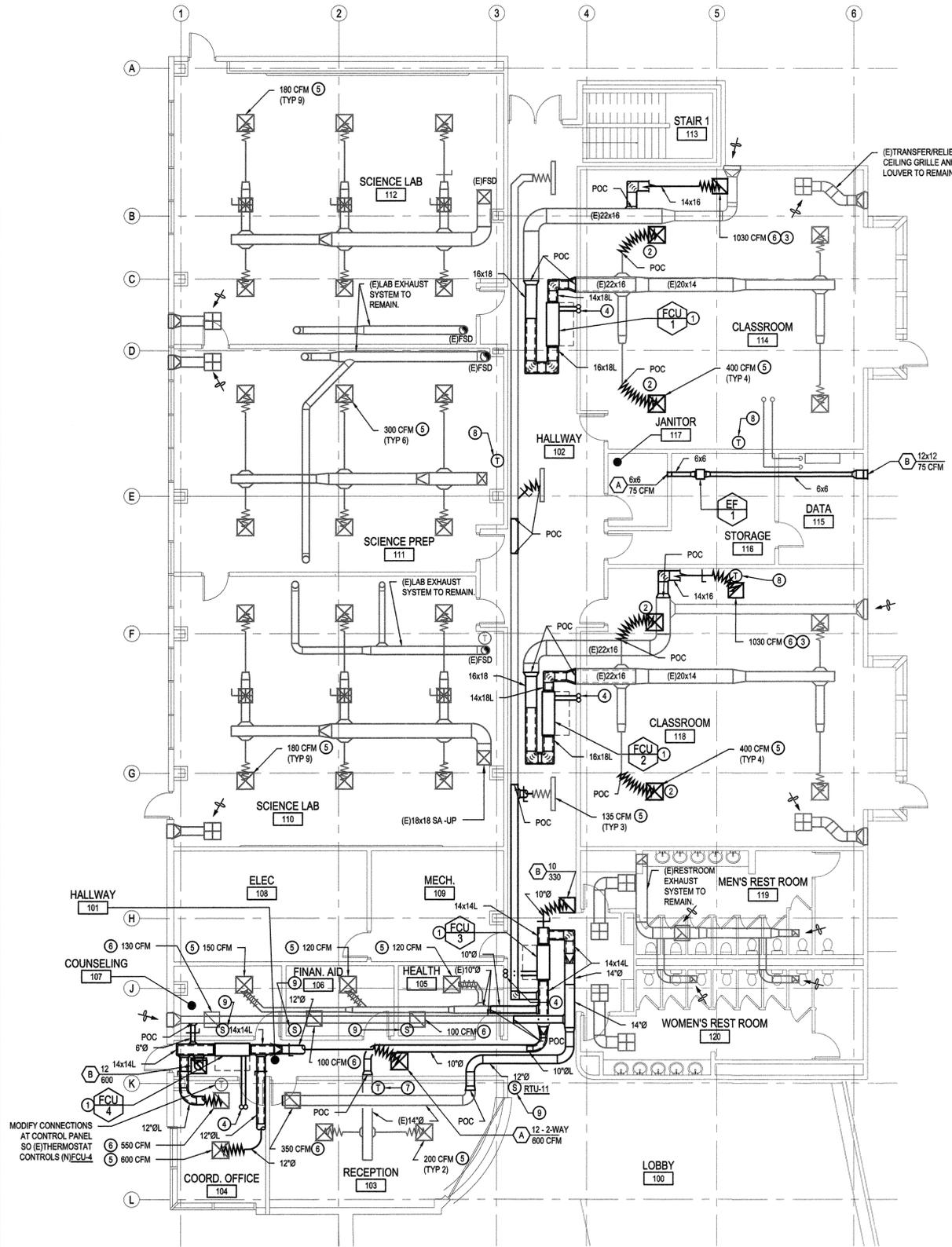


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ROOF SOUTH  
MECHANICAL  
DEMOLITION PLAN

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**M1.15**  
Of Sheets



1 FIRST FLOOR NORTH MECHANICAL DUCTWORK PLAN  
SCALE: 1/8" = 1'

**SHEET NOTES**

- ① PROVIDE FAN COIL UNIT AND CONNECT THE EXISTING DUCTWORK AS SHOWN. PROVIDE MINIMUM 1" DUCT LINING. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
- ② RELOCATE (E) SUPPLY DIFFUSER TO LOCATION SHOWN. PROVIDE (N) FLEX DUCT AS REQUIRED.
- ③ RELOCATE (E) RETURN GRILLE TO LOCATION SHOWN.
- ④ REFRIGERANT PIPE RISER UP TO FLOOR ABOVE. REFER TO SHEET M2.12 FOR CONTINUATION.
- ⑤ BALANCE (E) SUPPLY DIFFUSER TO VOLUME SHOWN.
- ⑥ BALANCE (E) RETURN GRILLE TO VOLUME SHOWN.
- ⑦ PROVIDE (N) THERMOSTAT WHERE SHOWN. PROVIDE WIRING BACK TO (E) TEMPERATURE CONTROL PANEL.
- ⑧ RELOCATE (E) THERMOSTAT TO WHERE SHOWN. ADJUST WIRING ABOVE CEILING AS REQUIRED. REFER TO SHEET M1.10.
- ⑨ PROVIDE (N) TEMPERATURE SENSOR WHERE SHOWN. PROVIDE WIRING BACK TO (E) TEMPERATURE CONTROL PANEL.

**GENERAL NOTES**

A. BRANCH DUCTS PROVIDING AIR TO ONLY HALLWAY/CORRIDOR SUPPLY DIFFUSERS OR RETURN GRILLES DO NOT NEED TO BE PROVIDED WITH ACOUSTICAL LINER.

ISSUES

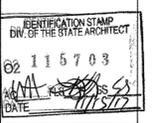


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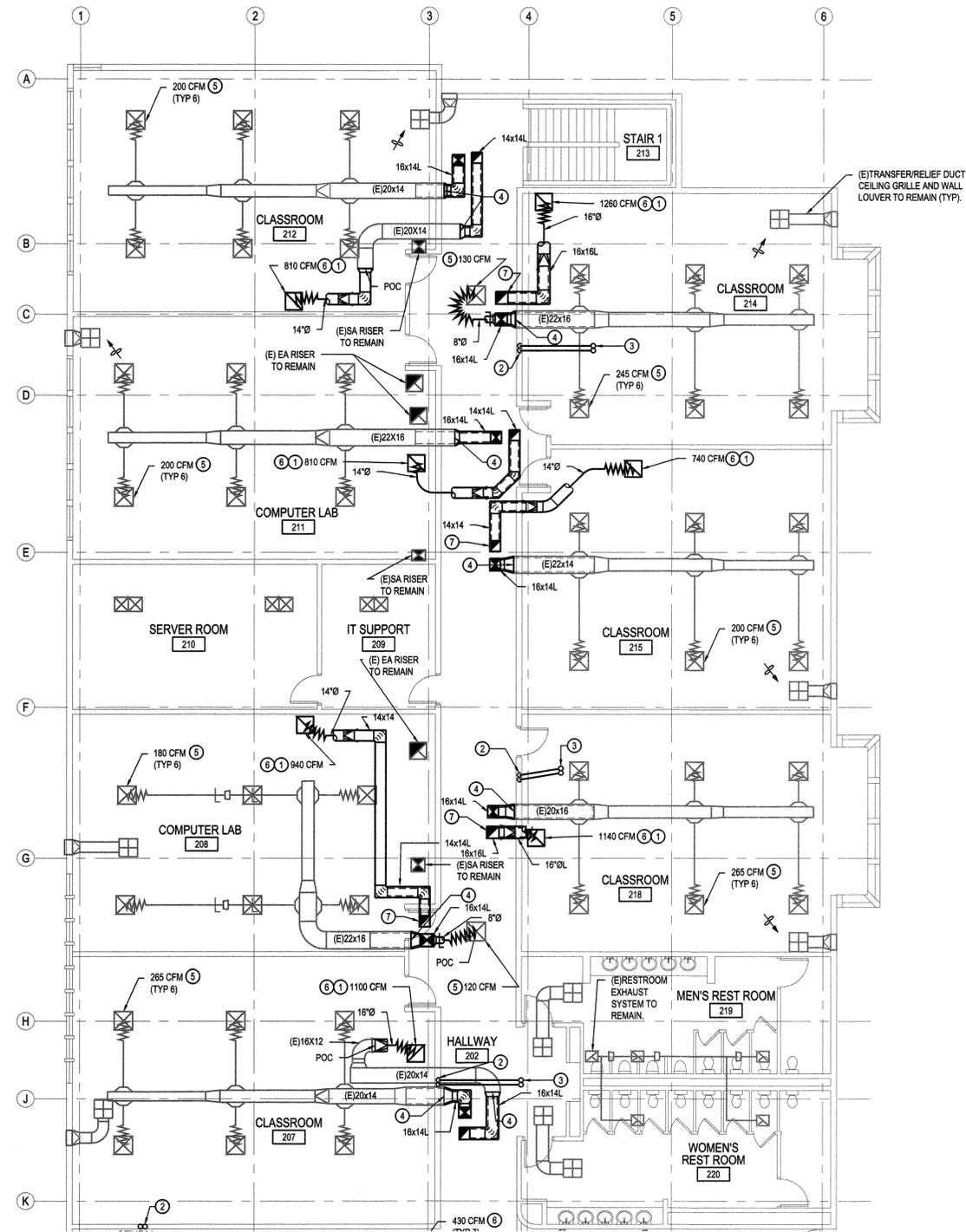
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FIRST FLOOR NORTH  
MECHANICAL  
DUCTWORK PLAN

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**M2.10**  
Of Sheets





**1 SECOND FLOOR NORTH MECHANICAL DUCTWORK PLAN**  
SCALE: 1/8" = 1'

**SHEET NOTES**

- ① RELOCATE (E) RETURN GRILLE TO LOCATION SHOWN.
- ② REFRIGERANT RISERS FROM FLOOR BELOW. REFER TO SHEET M2.10 FOR CONTINUATION.
- ③ REFRIGERANT RISER TO ROOF ABOVE. REFER TO SHEET M2.14 FOR CONTINUATION.
- ④ CONNECT THE EXISTING DUCTWORK TO THE NEW LINED DUCT DROPS AND/OR NEW HORIZONTAL DUCTS. PROVIDE MINIMUM 1" DUCT LINING AS SHOWN. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. PROVIDE LINED TRANSITIONS AS REQUIRED.
- ⑤ BALANCE (E) SUPPLY DIFFUSER TO VOLUME SHOWN.
- ⑥ BALANCE (E) RETURN GRILLE TO VOLUME SHOWN.
- ⑦ NEW LINED RETURN DUCT DROP AND NEW HORIZONTAL DUCTS. PROVIDE MINIMUM 1" DUCT LINING AS SHOWN. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.

**GENERAL NOTES**

- A. BRANCH DUCTS PROVIDING AIR TO ONLY HALLWAY/CORRIDOR SUPPLY DIFFUSERS OR RETURN GRILLES DO NOT NEED TO BE PROVIDED WITH ACOUSTICAL LINER.
- B. ROOF PENETRATIONS SHALL BE MIN 2 INCHES LARGER THAN THE VERTICAL DUCT IN EACH DIRECTION. COORDINATE WITH ROOF PLAN M2.14. REFER TO SHEET S8.1 FOR ROOF PENETRATION DETAILS.

NO.	ISSUES



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SECOND FLOOR NORTH  
MECHANICAL  
DUCTWORK PLAN

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**M2.12**  
Of Sheets



**1 SECOND FLOOR SOUTH MECHANICAL DUCTWORK PLAN**  
 SCALE: 1/8" = 1'

**SHEET NOTES**

- ① PROVIDE FAN COIL UNIT AND CONNECT TO DUCTWORK AS SHOWN. CONNECT THE EXISTING DUCTWORK TO THE NEW LINED DUCT HORIZONTAL DUCTS. PROVIDE MINIMUM 1" DUCT LINING AS SHOWN. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
- ② RELOCATE (E) RETURN GRILLE TO LOCATION SHOWN.
- ③ REFRIGERANT RISERS FROM THE FLOOR BELOW AND UP TO THE ROOF ABOVE. REFER TO SHEETS M2.11 AND M2.15 FOR CONTINUATION.
- ④ REFRIGERANT RISERS UP TO THE ROOF ABOVE. REFER TO SHEET M2.15 FOR CONTINUATION.
- ⑤ BALANCE (E) SUPPLY DIFFUSER TO VOLUME SHOWN.
- ⑥ BALANCE (E) RETURN GRILLE TO VOLUME SHOWN.
- ⑦ CONNECT THE EXISTING DUCTWORK TO THE NEW LINED DUCT DROPS FROM ROOFTOP UNIT AND/OR NEW HORIZONTAL DUCTS. PROVIDE MINIMUM 1" DUCT LINING AS SHOWN. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. PROVIDE LINED TRANSITIONS AS REQUIRED.

**GENERAL NOTES**

- A. BRANCH DUCTS PROVIDING AIR TO ONLY HALLWAY/CORRIDOR SUPPLY DIFFUSERS OR RETURN GRILLES DO NOT NEED TO BE PROVIDED WITH ACOUSTICAL LINER.
- B. ROOF PENETRATIONS SHALL BE MIN 2 INCHES LARGER THAN THE VERTICAL DUCT IN EACH DIRECTION. COORDINATE WITH ROOF PLAN M2.15. REFER TO SHEET S8.1 FOR ROOF PENETRATION DETAILS.

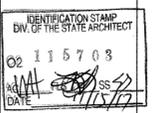
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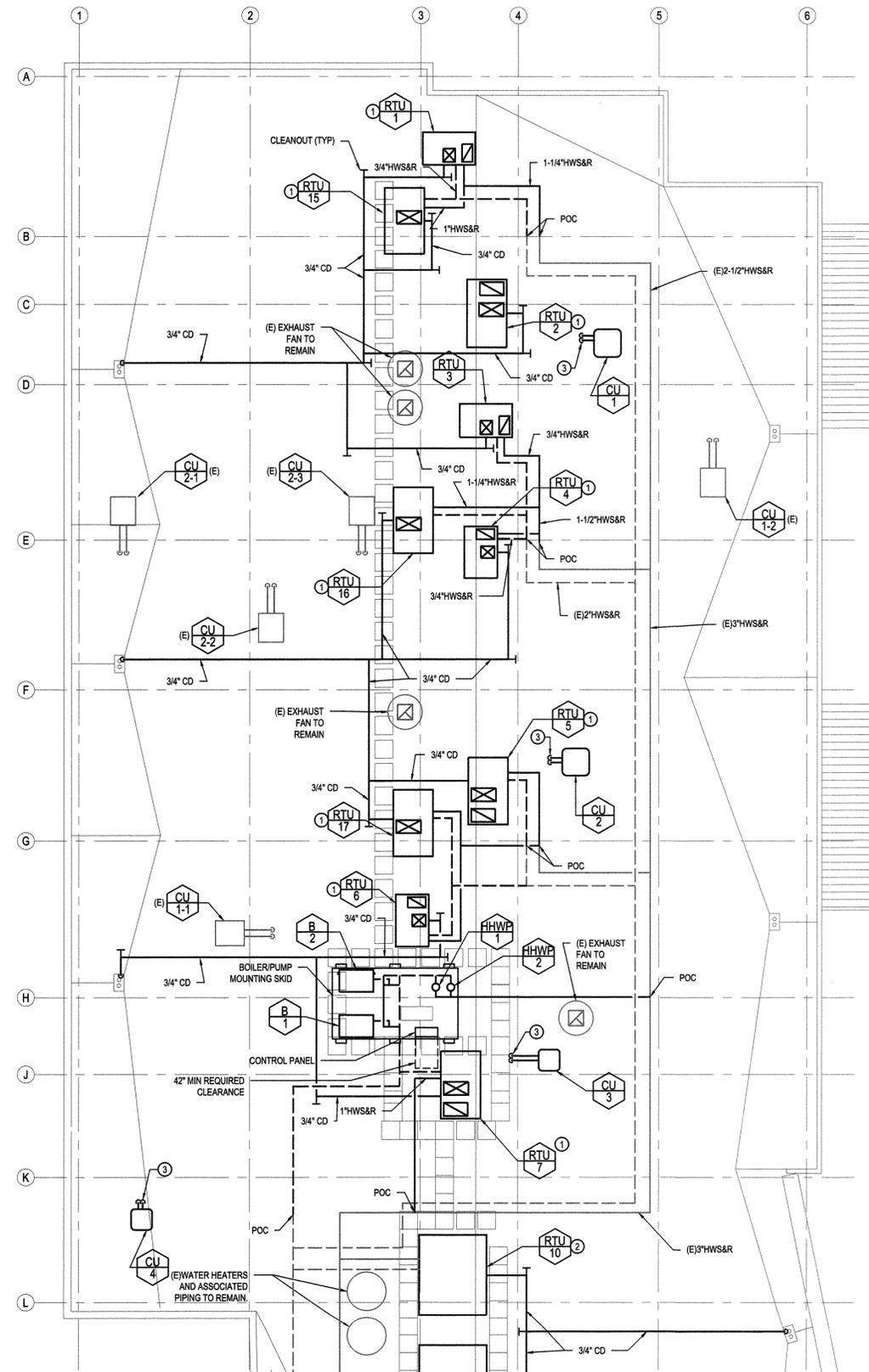


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**SECOND FLOOR SOUTH  
 MECHANICAL  
 DUCTWORK PLAN**

Date: 9/30/2016  
 Scale: 1/8"=1'-0"  
 Drawn: -  
 Job: 16SCC01  
 Sheet: **M2.13**  
 Of: 16 Sheets



**1 ROOF NORTH MECHANICAL PROPOSED PLAN**  
SCALE: 1/8" = 1'

**SHEET NOTES**

- ① PROVIDE ROOFTOP UNIT AND CURB. CONNECT TO DUCTWORK AND HYDRONIC PIPING AS SHOWN. REFER TO M2.12 FOR DUCTWORK CONTINUATION.
- ② PROVIDE ROOFTOP UNIT AND CURB. PROVIDE DUCTWORK AND HYDRONIC PIPING AS SHOWN. REFER TO M2.12 FOR DUCTWORK CONTINUATION.
- ③ REFRIGERANT PIPE RISER FROM FLOOR BELOW. REFER TO SHEET M2.12 FOR CONTINUATION.

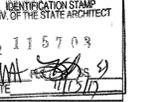
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ROOF NORTH  
MECHANICAL  
PROPOSED PLAN

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**M2.14**  
Of Sheets

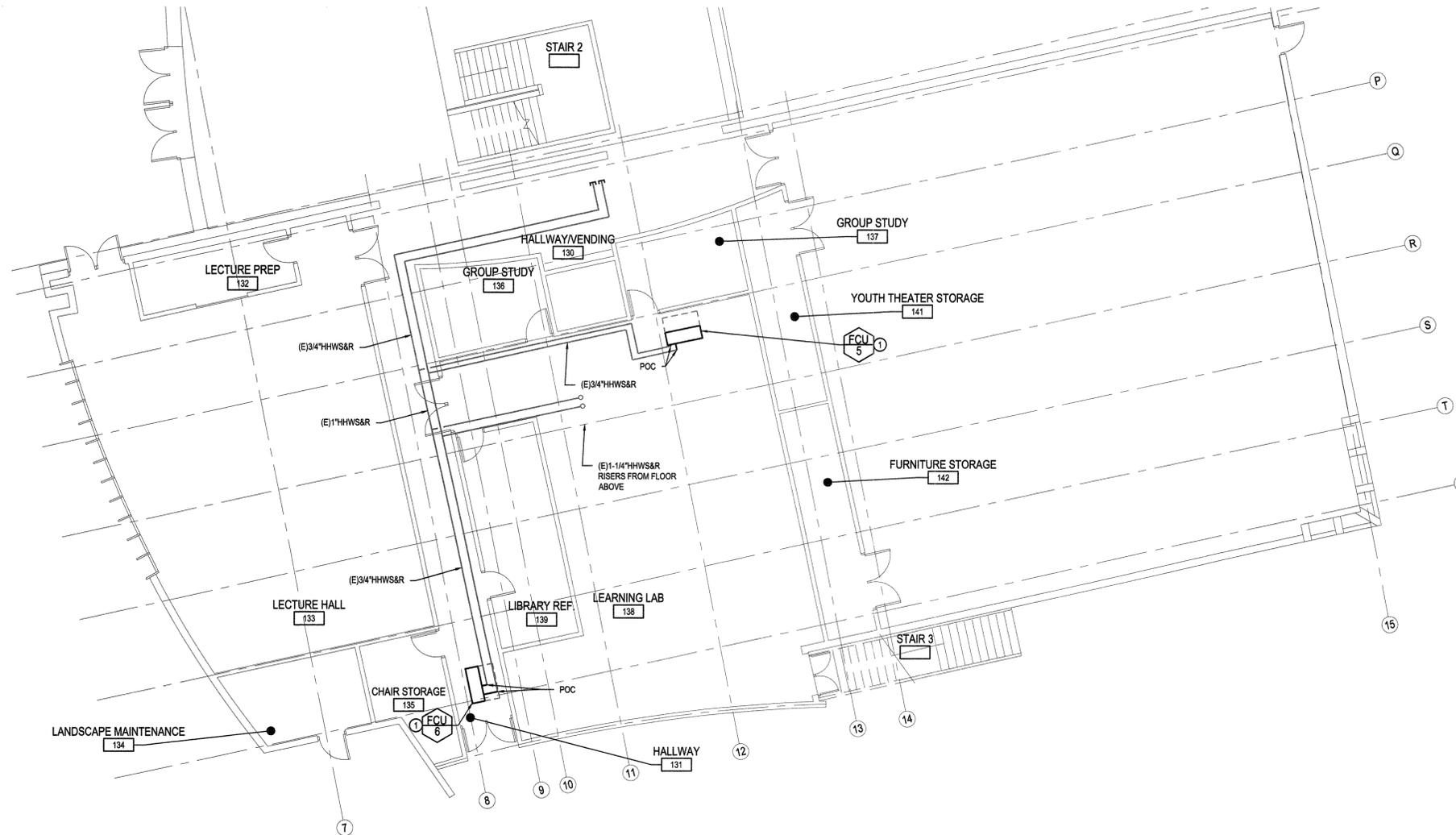




**SHEET NOTES**

① CONNECT (N) FAN COIL UNIT TO HEATING HOT WATER SUPPLY AND RETURN PIPES AS SHOWN.

ISSUES



**1** FIRST FLOOR SOUTH MECHANICAL HYDRONIC PLAN  
SCALE: 1/8" = 1'



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FIRST FLOOR SOUTH  
MECHANICAL  
HYDRONIC PLAN

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**M3.11**  
Of Sheets





## GENERAL ELECTRICAL NOTES

- ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRIC CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING JOB CONDITION. HE SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE HAD VISITED THE CONSTRUCTION SITE, PRIOR TO SUBMITTING HIS BID PROPOSAL. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY 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. DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING TEMPORARY FACILITIES AND CONNECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS, AND PAY ANY AND ALL FEES AS REQUIRED.
- EXISTING ARCHITECTURAL SURFACES DISTURBED DURING CONSTRUCTION SHALL BE PATCHED AND PAINTED TO MATCH EXISTING.
- WORK SHOWN IN THESE PLANS ARE NEW, UON. INSTALLATION SHALL BE CONCEALED. WHERE NOT POSSIBLE, CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT AND ENGINEER FOR EXPOSED INSTALLATION. A WRITTEN APPROVAL IS REQUIRED. USE SURFACE RACEWAYS, WIREMOLD, OR EQUAL. ALL ELECTRIC MATERIALS, DEVICES, AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. APPROVED
- ALL CONDUIT SHALL BE 3/4" MINIMUM. ALL CONDUIT SHALL BE RUN PARALLEL TO EXISTING SURFACES. WHEN CONDUIT CROSSES CORRIDORS OR ROOMS IT SHALL BE DONE PERPENDICULAR TO WALLS.
- SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS. FURNISH AND INSTALL FIRE RATED BACKBOXES AS REQUIRED TO MAINTAIN FIRE RATING OF CEILING OR WALLS WHERE RECESSED ELECTRIC EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANEL, ETC. ARE INSTALLED IN RATED WALL OR CEILINGS. PENETRATIONS OF FIRE RATED WALLS, CEILINGS, OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS. IN WALLS AND PARTITIONS THAT ARE FOR FIRE RESISTIVE CONSTRUCTION, OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES SHALL NOT EXCEED 16 SQUARE INCHES. IN ADDITION, THE AGGREGATE AREA OF SUCH OPENING SHALL NOT EXCEED 100 SQ IN FOR ANY 100 SQUARE FEET OF WALL OR PARTITION. OUTLET BOXES ON OPPOSITE SIDES OF THE WALLS OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES, OR BE PROVIDED WITH FIRE PUTTY.
- ALL NEW WIRING SHALL BE IN CONDUIT. COORDINATE ROUTING OF CONDUIT WITH ARCHITECT AND STRUCTURAL FOR OPENINGS IN WALLS AND ANY NOTCHING OF JOISTS.
- THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OF THE ARCHITECTURAL DETAILS OR SPECIFICS OF ELECTRICAL CONSTRUCTION. TAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, CONDUIT RUNS, ETC. WITH ARCHITECT AND OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN. SEE ELECTRICAL SECTION OF ARCHITECTURAL SPECIFICATION FOR ADDITIONAL INFORMATION.
- PULLROPS: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER.
- ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
- ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING (IE. MAXIMUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED).
- ALL EQUIPMENT MANUFACTURERS SHALL BE NOTED IN DRAWINGS. SUBSTITUTIONS ARE PERMITTED BUT MUST BE APPROVED EQUAL.
- CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24" OF WEATHERPROOF FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE. COORDINATE ALL MOTOR OVERLOADS AND/OR FUSES FURNISHED BY THIS CONTRACT WITH THE ACTUAL EQUIPMENT INSTALLED. SIZE OVERLOADS BASED ON MOTOR NAMEPLATE FULL LOAD CURRENT AND SERVICE FACTOR. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER "NON-INRUSH" LOADS SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L, UON. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
- SEE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION OF FANS AND WATER HEATERS.
- ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS.
- GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
- FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR MANUFACTURER INSTALLATION REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO PROVIDE EXPANSION FITTINGS AT ALL EXPANSION JOINT LOCATION. USE STEEL FLEX 6 FEET EACH SIDE OF THE JOINT AND TERMINATE IN A PULLBOX AT EACH END, OR OTHER APPLIED METHODS.
- ALL LIGHTING FIXTURE LOCATIONS AND ROUTING SHALL BE REVIEWED BY ARCHITECT PRIOR TO ROUGH-IN.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 36" CLEARANCE PER NEC ARTICLE 110.26.
- PENETRATIONS OF FIRE RATED WALLS CEILINGS OR FLOORS SHALL COMPLY WITH CBC CHAPTER 7 REQUIREMENTS.
- WHERE OUTLET BOXES ARE INSTALLED WITHIN RATED ASSEMBLIES, PROVIDE 3M MOLDABLE PUTTY PADS OR EQUAL TO MAINTAIN FIRE RATED ASSEMBLIES.
- ALL RECEPTACLES SHALL BE GROUNDING TYPE.
- ALL RECEPTACLES INSTALLED IN BATHROOMS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
- CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
- SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.
- PERFORMANCE AND WITNESSING OF TESTS
  - THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS.
  - ALL NEW AND RECONNECTED ELECTRICAL CIRCUIT SHALL BE TESTED TO INSURE CIRCUIT CONTINUITY, INSULATION RESISTANCE, PROPER SPLICING AND GROUNDING IN ACCORDANCE WITH THE LATEST STANDARDS AS STATED ABOVE. BEFORE CONNECTING POWER CABLES TO MOTORS, THE INSULATION RESISTANCE OF ALL MOTOR WINDINGS SHALL BE TESTED IN ACCORDANCE WITH THE ABOVE STANDARDS.
  - ANY CONTRACTOR FURNISHED AND/OR INSTALLED SPLICE, RECOMMENDED VOLTAGE AND INSULATION RESISTANCE TESTS, SHALL BE CONNECTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
  - NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TESTS AND ADJUSTMENTS HAVE BEEN MADE.
  - THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER.

## ABBREVIATIONS

A	AMPERE	MV	MEDIUM VOLTAGE
AC	ALTERNATING CURRENT	N	NEUTRAL
AF	AMPERE RATING OF FUSE	(N)	NEW
AFF	ABOVE FINISHED FLOOR	N.E.C.	NATIONAL ELECTRICAL CODE
C	CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
CKT	CIRCUIT	NEUT	NEUTRAL
D	DEDICATED	NIC	NOT IN CONTRACT
E	EXISTING TO REMAIN	NTS	NOT TO SCALE
ELEC	ELECTRICAL	PB	PULL BOX
EM	EMERGENCY	PNL	PANEL
EMT	ELECTRICAL METALLIC TUBING	POS	POINT OF SALE
<F>	FUTURE	RR	REMOVE AND RELOCATE
FACP	FIRE ALARM CONTROL PANEL	RSC	RIGID STEEL CONDUIT
FATC	FIRE ALARM TERMINAL CAN	SLD	SINGLE LINE DIAGRAM SPEC SPECIFICATION
G	GROUNDING CONDUCTOR	T	TELEPHONE
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	UG	UNDERGROUND
HP	HORSEPOWER	UAC	UNDER ANOTHER CONTRACT
KVA	KILOVOLT AMPS	UON	UNLESS OTHERWISE NOTED
KW	KILOWATTS	V	VOLT
LTG	LIGHTING	VP	VANDAL PROOF
LTS	LIGHTS	W	WATTS
LV	LOW VOLTAGE	WP	WEATHERPROOF (NEMA 3R)
MECH	MECHANICAL	WT	WATERTIGHT
MTD	MOUNTED	XFMR	TRANSFORMER

## ELECTRICAL SYMBOLS

	REFERENCE SHEET NOTE
	DETAIL REFERENCE (#= DETAIL #, P=SHEET #)
	BRANCH CIRCUIT WIRING IN EXPOSED CONDUIT.
	BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND, OR CONCEALED IN CEILING OR WALL.
	BRANCH CIRCUIT HOMERUN TO PANEL. CONCEALED IN CEILING SPACE OR WHERE POSSIBLE.
	JUNCTION OR OUTLET BOX MOUNT ABOVE CEILING WITH BLANK COVER (F=FLUSH IN FINISHED CEILING)
	SINGLE POLE THROW SWITCH AND BOX, WALL MOUNTED, +48".
	SINGLE POLE THROW SWITCH AND BOX WITH OCCUPANCY SENSOR, WALL MOUNTED, +48".
	SINGLE POLE SWITCH AND BOX, LOWERCASE LETTER INDICATES CIRCUIT OR LAMPS CONTROLLED BY SWITCH, +48".
	RANGE HOOD CONTROL AT FRONT OF COUNTER. SEE ARCHITECTURAL ELEVATION.
	THREE-WAY SWITCH
	HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.
	USB CHARGER AND TAMPER RESISTANT RECEPTACLE. LEVITON T5630, OR APPROVED EQUAL.
	DUPLEX RECEPTACLE 20A, 125V, 3WG, NEMA 5-20R, +15" (UON). (WP=GFCI AND WEATHERPROOF WITH IN-USE COVER, D=DEDICATED)
	DUPLEX RECEPTACLE IP20A, WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER (UON). (WP=WEATHERPROOF)
	DUPLEX RECEPTACLE 20A, ABOVE COUNTER OR +42" AT LAUNDRY
	PANEL BOARD, 120/240V, SINGLE PHASE, 3W FLUSH IN RESIDENTIAL UNITS. 120/208V 3 PHASE, 4 WIRE FLUSH/SURFACE IN COMMUNITY BUILDING.
	OCCUPANCY SENSOR
	DATA OUTLET, FLUSH MOUNT IN WALL, +15" AFF. WITH 3/4". AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE OR WALL SPACE.
	PHONE DATA OUTLET, FLUSH MOUNT IN WALL, +15" AFF. WITH 3/4". AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE OR WALL SPACE.
	TELEPHONE OUTLET, FLUSH MOUNT IN WALL, +15" AFF. WITH 3/4". AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE OR WALL SPACE.
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSED (UON)
	HORN & STROBE
	HARD WIRED SMOKE DETECTOR FOR DWELLING UNITS
	HARD WIRED COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR FOR DWELLING UNITS
	FIRE ALARM CONTROL PANEL
	FA WALL MOUNTED STROBE
	FA MANUAL PULL STATION

## SCOPE OF WORK MATRIX

- CONNECT TO EXISTING CIRCUIT AND FURNISH AND INSTALL NEW LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT REPLACED IN SAME LOCATION.
- FURNISH AND INSTALL POWER AND LOCAL DISCONNECT FOR NEW MECHANICAL EQUIPMENT IN NEW LOCATION.
- FURNISH AND INSTALL NEW BREAKERS TO FEED NEW MECHANICAL EQUIPMENT IN NEW LOCATIONS.
- ENSURE INTERCONNECTION OF, EXISTING AND NEW, FIRE SMOKE DAMPERS AND MONITORING OF DUCT DETECTORS FOR AUTOMATIC SHUTDOWN AT RTU-10, RTU-11, RTU-12, AND RTU-14

## APPLICABLE CODES

- 2013 BUILDING STANDARD ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.; (2014 EMERGENCY SUPPLEMENT)
- 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; (2011 NATIONAL ELECTRICAL CODE & 2013 CALIFORNIA AMENDMENT)
- 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.; (2012 UNIFORM MECHANICAL CODE & 2013 CALIFORNIA AMENDMENT)
- 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.; (2012 UNIFORM PLUMBING CODE & 2013 CALIFORNIA AMENDMENT)
- 2013 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.;
- 2013 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.; (2014 CALIFORNIA AMENDMENT)
- 2013 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R. (2014 CALIFORNIA SUPPLEMENTS)
- 2013 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R. (PENDING ADOPTION)
- 2013 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

AISC 360-05 SPECIFICATION FOR STRUCTURAL BUILDINGS  
 NDS-05 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH 2005 SUPPLEMENT  
 ACI-318-05 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE  
 ASME 17.1 ELEVATOR STANDARD, 2007 EDITION  
 NFPA 13, AUTOMATIC SPRINKLER SYSTEM, 2013 EDITION  
 NFPA 14, STANDPIPE AND HOSE SYSTEMS, 2013 EDITION  
 NFPA 17-A, WET CHEMICAL EXTINGUISHING SYSTEMS, 2009 EDITION  
 NFPA 20, STATIONARY PUMPS, 2013 EDITION  
 NFPA 24, PRIVATE FIRE SERVICE MAINS, 2013 EDITION  
 NFPA 72, NATIONAL FIRE ALARM CODE, 2013 EDITION  
 (AS AMENDED BY SFM. NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")  
 NFPA 253, CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2006 EDITION  
 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2011 EDITION  
 REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC(SFM) 3504.1  
 TITLE 24 C.C.R. ACCESSIBILITY STANDARDS  
 AMERICAN WITH DISABILITIES ACT - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

## SHEET INDEX

E0.01	ELECTRICAL TITLE SHEET
E0.02	EQUIPMENT CONNECTION SCHEDULE
E1.10	ELECTRICAL FIRST FLOOR DEMOLITION PLAN - NORTH
E1.11	ELECTRICAL FIRST FLOOR DEMOLITION PLAN - SOUTH
E1.12	ELECTRICAL SECOND FLOOR DEMOLITION PLAN - NORTH
E1.13	ELECTRICAL SECOND FLOOR DEMOLITION PLAN - SOUTH
E1.14	ELECTRICAL ROOF DEMOLITION PLAN - NORTH
E1.15	ELECTRICAL ROOF DEMOLITION PLAN - SOUTH
E2.10	ELECTRICAL FIRST FLOOR PLAN - NORTH
E2.11	ELECTRICAL FIRST FLOOR PLAN - SOUTH
E2.13	ELECTRICAL SECOND FLOOR PLAN - NORTH
E2.14	ELECTRICAL SECOND FLOOR PLAN - SOUTH
E2.15	ELECTRICAL ROOF PLAN - SOUTH
E10.01	PANEL SCHEDULE
E10.02	PANEL SCHEDULE

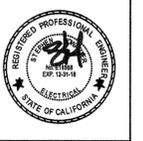
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ELECTRICAL  
 TITLE SHEET

Date: 9/30/2016

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Job: 16SCC01

Sheet:

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EQUIPMENT  
CONNECTION  
SCHEDULE

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
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Job: 16SCC01  
Sheet: E0.02  
Of 1 Sheets

	ELECTRIC						DISCONNECT
	VOLTS	PHASE	MCA	MCCP	CONDUIT	CONDUCTORS	
RTU-1	460	3	11	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-2	460	3	12.8	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-3	460	3	11	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-4	460	3	11	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-5	460	3	12.8	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-6	460	3	11	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-7	460	3	12.8	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-8	460	3	11	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-9	460	3	11	15	3/4"	#12	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-10	460	3	19.9	25	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-11	460	3	21.6	25	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-12	460	3	19.9	25	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-13	460	3	13.8	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-14	460	3	43	60	1-1/2"	#4	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-15	460	3	13.8	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-16	460	3	18.7	25	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
RTU-17	460	3	13.8	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
FCU-1	208	1	8	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-2	208	1	8	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-3	208	1	4	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-4	208	1	4	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-5	208	1	4	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-6	208	1	4	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-7	208	1	4	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-8	208	1	4	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-9	208	1	4	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
FCU-10	208	1	4	15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
CU-1	208	1	24	40	1"	#6	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-2	208	1	24	40	1"	#6	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-3	208	1	12	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-4	208	1	12	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-5	208	1	12	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-6	208	1	12	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-7	208	1	12	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-8	208	1	12	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-9	208	1	12	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
CU-10	208	1	12	20	3/4"	#10	HEAVY DUTY, NON-FUSED, NEMA 3R
EF-1	120	1		15	3/4"	#12	HORSE POWER RATED TOGGLE SWITCH
B-1	120	1			3/4"	#12	HORSE POWER RATED TOGGLE SWITCH, NEMA 3R
B-2	120	1			3/4"	#12	HORSE POWER RATED TOGGLE SWITCH, NEMA 3R
HHWP-1	460	3			3/4"	#12	HORSE POWER RATED TOGGLE SWITCH, NEMA 3R
HHWP-2	460	3			3/4"	#12	HORSE POWER RATED TOGGLE SWITCH, NEMA 3R

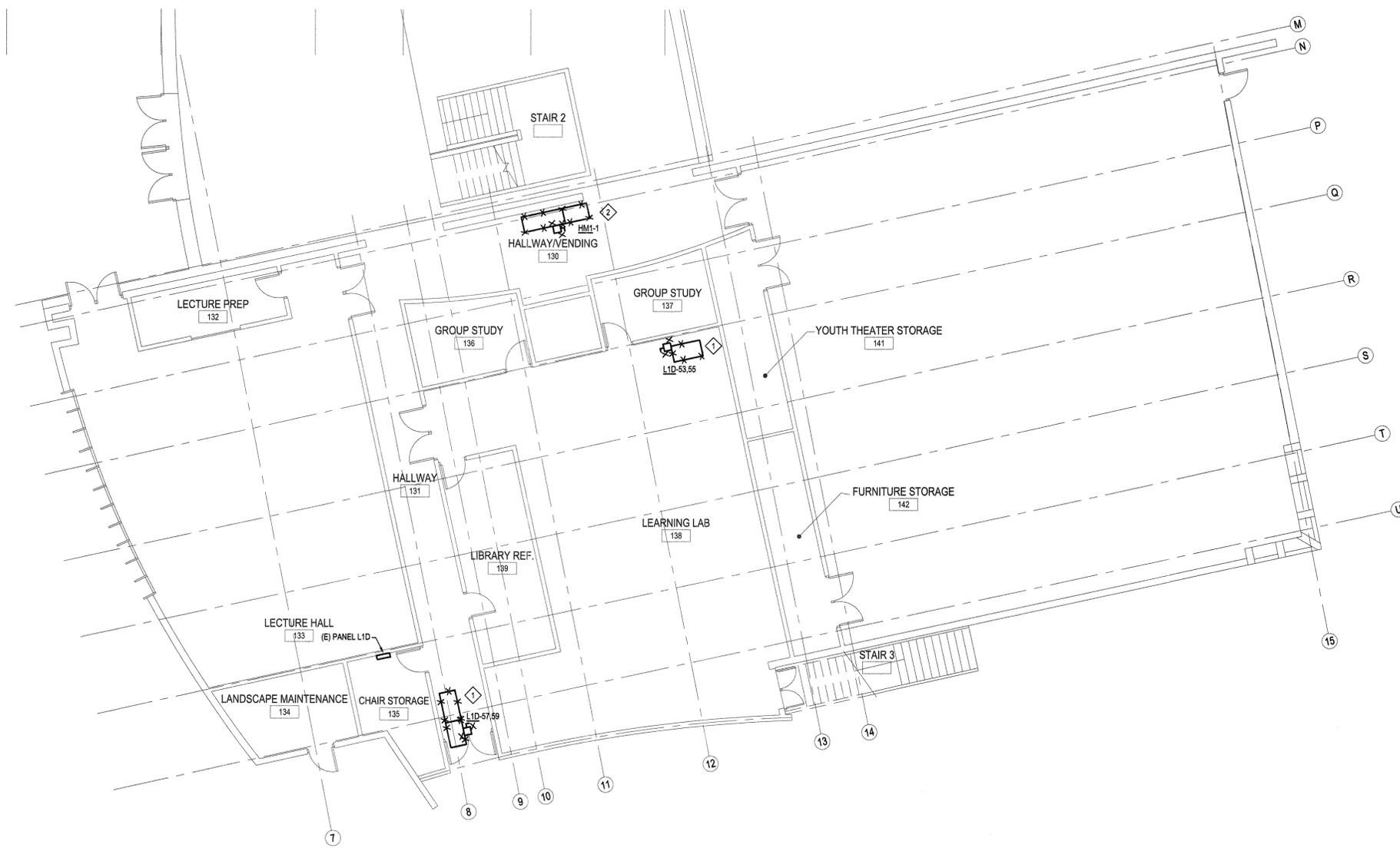


**GENERAL NOTE**

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.

**SHEET NOTE**

- ① MAINTAIN CIRCUIT FOR NEW EQUIPMENT. MAKE MODIFICATIONS TO EXTEND CIRCUIT TO NEW EQUIPMENT. REMOVE ONE HOT CONDUCTOR FROM CIRCUIT. NEW EQUIPMENT IS 2-POLE.
- ② REMOVE CONDUCTORS BACK TO PANEL. MARK BOXES AND CONDUIT AS "SPARE".



**1** ELECTRICAL FIRST FLOOR DEMO PLAN - SOUTH  
SCALE: 1/8" = 1'

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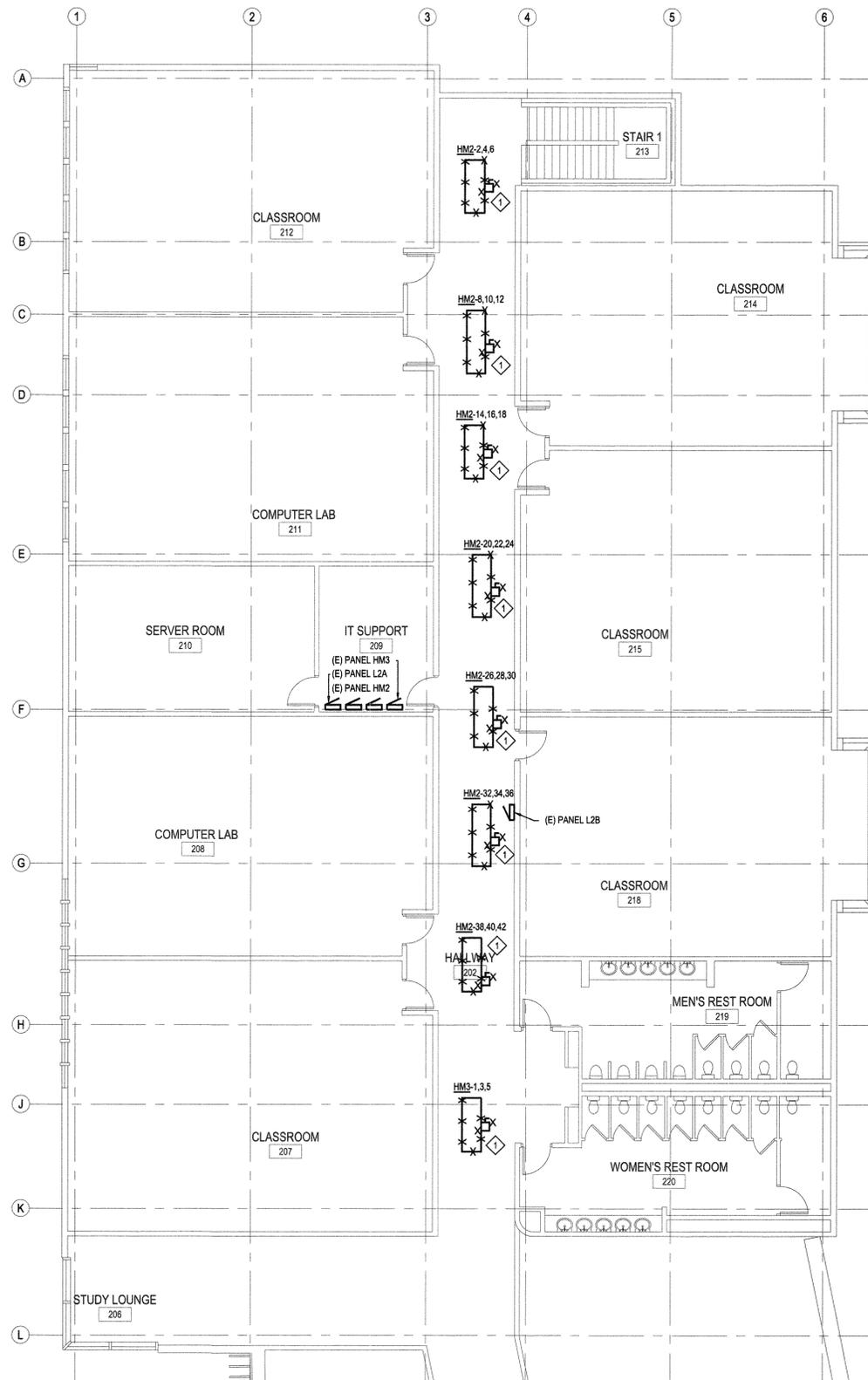


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MECHANICAL EQUIPMENT REPLACEMENT**

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DATE 11/5/16

**ELECTRICAL  
FIRST FLOOR  
DEMO PLAN - SOUTH**

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**E1.11**  
Of Sheets



**1** ELECTRICAL SECOND FLOOR DEMO PLAN - NORTH  
SCALE: 1/8" = 1'

**GENERAL NOTE**

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.

**SHEET NOTE**

◇ REMOVE CONDUCTORS BACK TO PANEL. MARK BOXES AND CONDUIT AS "SPARE".

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DATE 9/30/16

ELECTRICAL  
SECOND FLOOR  
DEMO PLAN - NORTH

Date: 9/30/2016

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

Drawn: -

Job: 16SCC01

Sheet

**E1.12**

Of Sheets

**GENERAL NOTE**

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.

**SHEET NOTE**

- 1 MAINTAIN CIRCUIT FOR NEW EQUIPMENT. MAKE MODIFICATIONS TO EXTEND CIRCUIT TO NEW EQUIPMENT. REMOVE ONE HOT CONDUCTOR FROM CIRCUIT. NEW EQUIPMENT IS 2-POLE.
- 2 REMOVE CONDUCTORS BACK TO PANEL. MARK BOXES AND CONDUIT AS "SPARE".
- 3 MAINTAIN CIRCUIT FOR NEW EQUIPMENT. MAKE MODIFICATIONS TO EXTEND CIRCUIT TO NEW EQUIPMENT.



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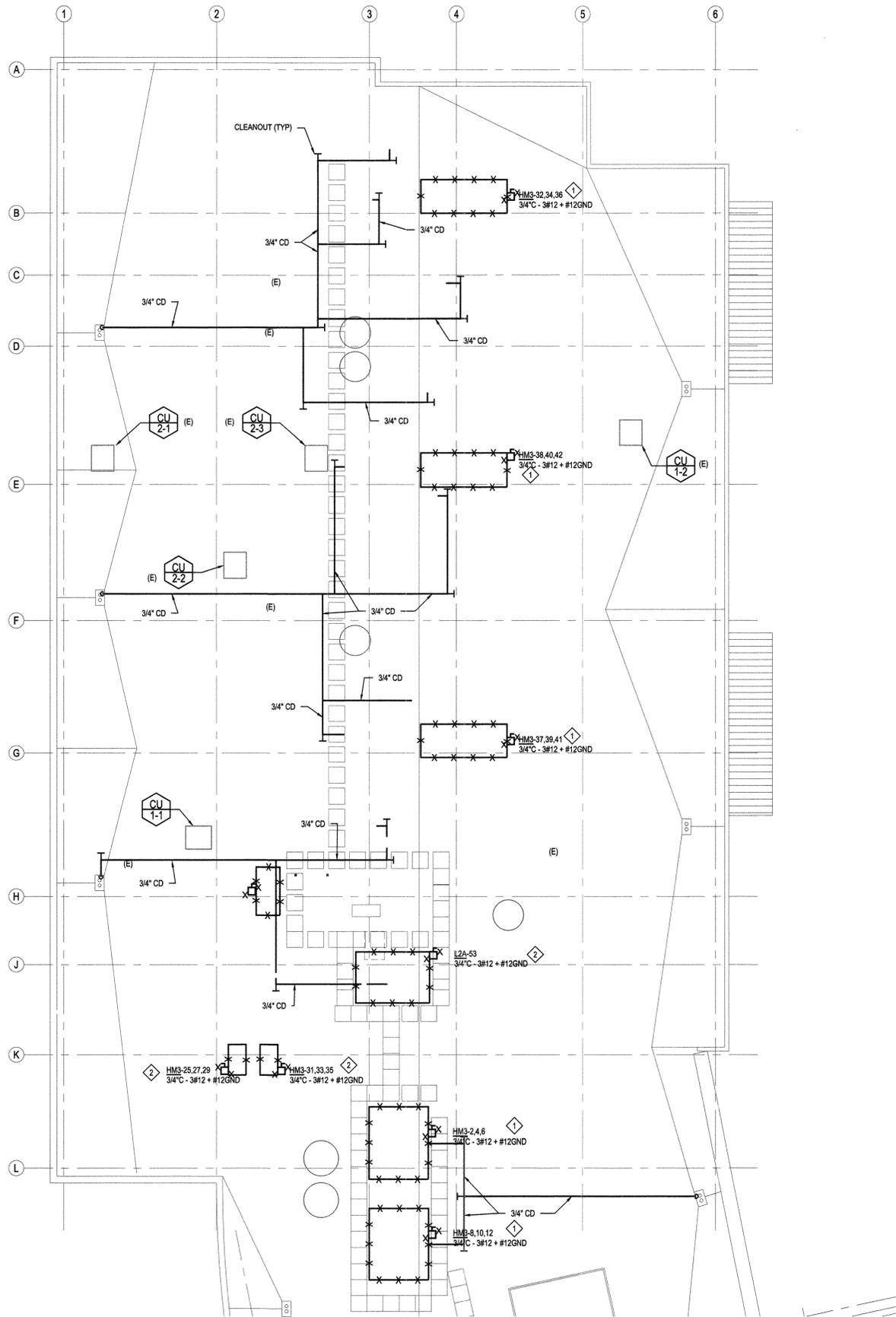
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DATE: 9/30/16

ELECTRICAL  
SECOND FLOOR  
DEMO PLAN - SOUTH

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**E1.13**  
Of Sheets

**1** ELECTRICAL SECOND FLOOR DEMO PLAN - SOUTH  
SCALE: 1/8" = 1'



**GENERAL NOTE**

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.

**SHEET NOTE**

- ① MAINTAIN CIRCUIT FOR NEW EQUIPMENT. MAKE MODIFICATIONS TO EXTEND CIRCUIT TO NEW EQUIPMENT. REMOVE ONE HOT CONDUCTOR FROM CIRCUIT. NEW EQUIPMENT IS 2-POLE.
- ② REMOVE CONDUCTORS BACK TO PANEL. MARK BOXES AND CONDUIT AS "SPARE".



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DATE 11/15/10

ELECTRICAL ROOF  
DEMO PLAN - NORTH

Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet  
**E1.14**  
Of Sheets

**1** ELECTRICAL ROOF DEMO PLAN - NORTH  
SCALE: 1/8" = 1'

**GENERAL NOTE**

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED. DISCONNECT EXISTING EQUIPMENT AND REMOVE LOCAL DISCONNECT MAINTAIN CIRCUIT FOR NEW EQUIPMENT INSTALLATION.

**SHEET NOTE**

- ① MAINTAIN CIRCUIT FOR NEW EQUIPMENT. MAKE MODIFICATIONS TO EXTEND CIRCUIT TO NEW EQUIPMENT. REMOVE ONE HOT CONDUCTOR FROM CIRCUIT. NEW EQUIPMENT IS 2-POLE.
- ② REMOVE CONDUCTORS BACK TO PANEL. MARK BOXES AND CONDUIT AS "SPARE".

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VACAVILLE CENTER  
MECHANICAL EQUIPMENT REPLACEMENT



ELECTRICAL ROOF  
DEMO PLAN - SOUTH

Date: 9/30/2016

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

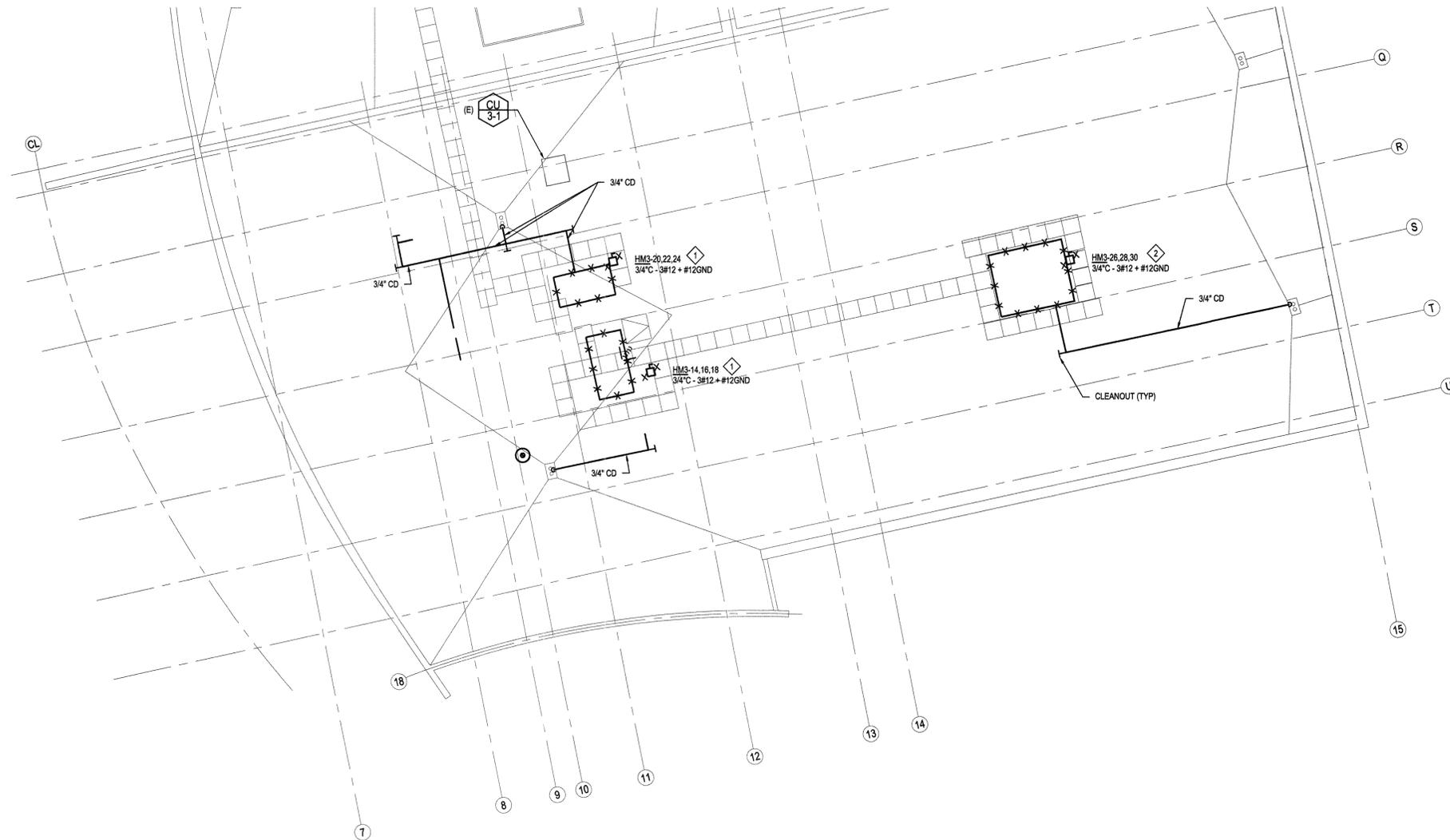
Drawn: -

Job: 16SCC01

Sheet

E1.15

Of Sheets



**1** ELECTRICAL ROOF DEMO PLAN - SOUTH  
SCALE: 1/8" = 1'

**GENERAL NOTES**

1. NEW MECHANICAL EQUIPMENT IN EXISTING LOCATION. CONNECT TO EXISTING CIRCUIT. FURNISH AND INSTALL NEW DISCONNECT.
2. EXISTING WALLS ARE NOT FIRE RATED. ONLY THE FIRST FLOOR CEILING/SECOND FLOOR IS RATED. PENETRATIONS THROUGH THE FLOOR SHALL BE FIRE STOPPED.

**SHEET NOTE**

- ① CONNECT TO MODIFIED CIRCUIT.
- ② FURNISH AND INSTALL NEW FEEDER TO PNL IDENTIFIED. SEE E0.02 FOR CONNECTION REQUIREMENTS.

ISSUES

EDesignC  
Incorporated

582 MARKET STREET,  
SUITE 400  
SAN FRANCISCO, CA  
94104  
(415) 963-4303

212 9TH STREET,  
SUITE 203  
OAKLAND, CA 94612

Seal & Signature:



SOLANO COMMUNITY COLLEGE DISTRICT  
VACAVILLE CENTER  
MECHANICAL EQUIPMENT REPLACEMENT

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
02 115703  
AC [Signature]  
DATE 11/15/17

ELECTRICAL  
FIRST FLOOR  
PLAN - NORTH

Date: 9/30/2016

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

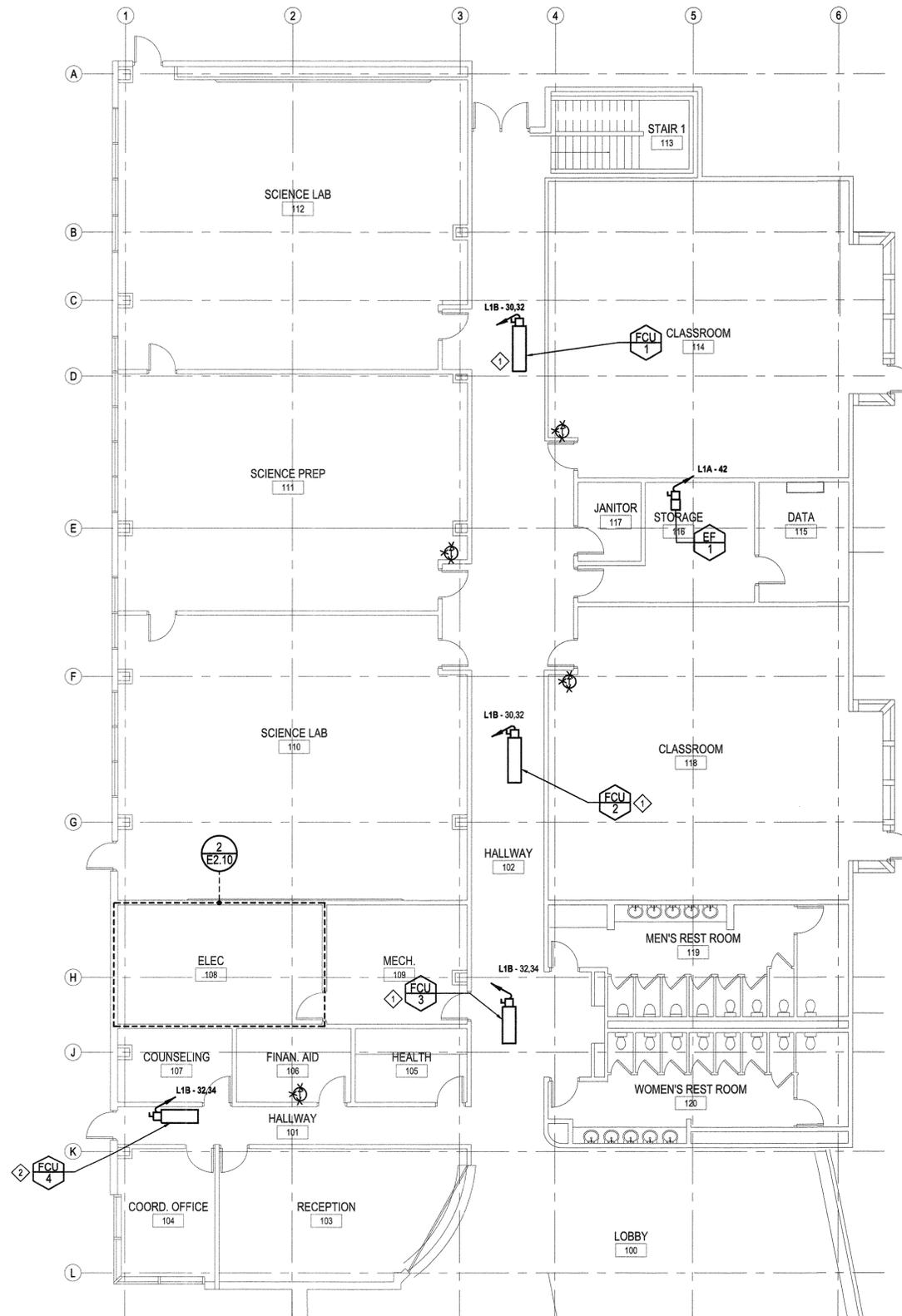
Drawn: -

Job: 16SCC01

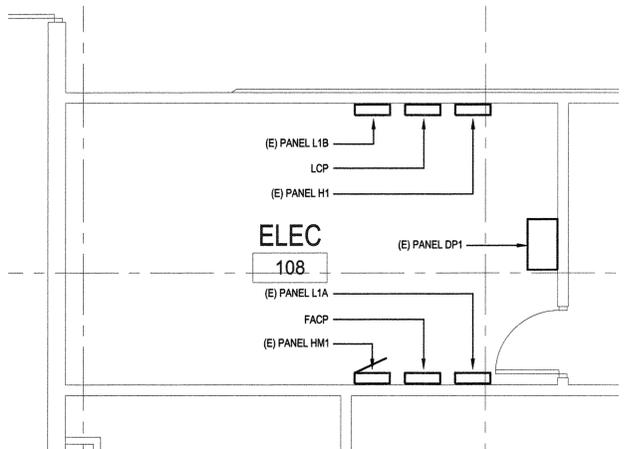
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E2.10

Of Sheets



**1** ELECTRICAL FIRST FLOOR PLAN - NORTH  
SCALE: 1/8" = 1'



**2** ENLARGE FIRST FLOOR ELECTRICAL ROOM  
SCALE: 1/4" = 1'









PANEL L1D		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION: CORRIDOR		WIRE		4 AIC		MLO 100A							
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	LECTURE HALL 133	360	A	720 M. S. RM 140	20	1	G	EXIST	2
3	EXIST	G	20	1	LECTURE HALL 133	540	B	720 M. S. RM 140	20	1	G	EXIST	4
5	EXIST	G	20	1	LECTURE HALL 133	180	C	720 M. S. RM 140	20	1	G	EXIST	6
7	EXIST	G	20	1	LEARN LAB 138, 139	720	A	360 RM 140 FLR MONUMENTS	20	1	G	EXIST	8
9	EXIST	G	20	1	LEARN LAB 138, 139	540	B	360 RM 140 FLR MONUMENTS	20	1	G	EXIST	10
11	EXIST	G	20	1	RM 136, 137, 138, 139	720	C	360 RM 130 ASS. HEARING	20	1	G	EXIST	12
13	EXIST	G	20	1	RM 133 PROJECTOR SCREEN	600	A	500 R 140 SMART PANEL	20	1	G	EXIST	14
15	EXIST	G	20	1	RM 130 SMART PANEL	720	B	600 R 140 PROJECTOR SCREEN	20	1	G	EXIST	16
17	EXIST	G	20	1	RM	720	C	250 RM 140 ASSIST. HEARING	20	1	M	EXIST	18
19	EXIST	G	20	1	RM 130 ASS. HEARING	360	A	600 MOTORIZED DOOR	20	1	G	EXIST	20
21	EXIST	G	20	1	RM 130, 131	540	B	1200 RM 133 FLRN CONNECT	20	1	G	EXIST	22
23	EXIST	G	20	1	RM 134 MANTLNDSC	540	C	1200 RM 133 FLRN CONNECT	20	1	G	EXIST	24
25	EXIST	G	20	1	ELEC CAB AUX PWR	540	A	1200 RM 133 FLRN CONNECT	20	1	G	EXIST	26
27	EXIST	G	20	1	RM 130 VENDING MACHINE	1000	B	1200 RM 133 FLRN CONNECT	20	1	G	EXIST	28
29	EXIST	G	20	1	RM 130 VENDING MACHINE	1000	C	1200 RM 133 FLRN CONNECT	20	1	G	EXIST	30
31	EXIST	G	20	1	RM 130 VENDING MACHINE	1000	A	1200 RM 133 FLRN CONNECT	20	1	G	EXIST	32
33	EXIST	G	20	1	RM 139 SMART PANEL	720	B	1200 RM 133 FLRN CONNECT	20	1	G	EXIST	34
35	EXIST	G	20	1	RM 139 SMART PANEL	720	C	1200 RM 133 FLRN CONNECT	20	1	G	EXIST	36
37	EXIST	G	20	1	ROOM 139 PROJECTOR	500	A	SPACE					38
39													40
41													42

PHASE A 8660 SUBTOTAL DEMAND CALCULATION  
 PHASE B 9340 0 CONTINUOUS LOAD (C) 125% 0  
 PHASE C 8810 0 DEDICATED LOAD (D) 100% 0  
 26560 GENERAL LOAD (G) 100 1ST 10KVA, 50% REST 33200  
 LARGEST MOTOR 25% 0  
 \*AMPS ADDED FROM PANEL L1D CONT. SHEET 250 MOTOR LOAD (M) 100% 312.5  
 TOTAL DEMAND 33513  
 AMPS @ 120/208 113

PANEL L1D CONT.		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION: CORRIDOR		WIRE		4 AIC		MLO 100A							
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
43							A						44
45							B						46
47							C						48
49							A	500 DOOR OPERATOR LOBBY	20	1	M	EXIST	50
51							B	500 DOOR OPERATOR LOBBY	20	1	M	EXIST	52
53	M	15	2		FOL-5	789.5	C	500 DOOR OPERATOR LOBBY	20	1	M	EXIST	54
55	M				---	789.5	A	500 DOOR OPERATOR LOBBY	20	1	M	EXIST	56
57	M	15	2		FOL-6	593	B	400 COND PUMP HPI-5,6,7	20	1	M	EXIST	58
59	M				---	593	C	500 IRRIGATION CONTROL	20	1	G	EXIST	60
61													62
63							B						64
65							C						66
67							A						68
69							B						70
71							C						72
73							A						74
75							B						76
77							C						78
79							A						80
81							B						82
83	D						C						84

PHASE A 1770 SUBTOTAL DEMAND CALCULATION  
 PHASE B 1493 0 CONTINUOUS LOAD (C) 125% 0  
 PHASE C 2363 0 DEDICATED LOAD (D) 100% 0  
 500 GENERAL LOAD (G) 100 1ST 10KVA, 50% REST 625  
 LARGEST MOTOR 25% 0  
 \*TOTAL AMPS ADDED TO PANEL L1D 5125 MOTOR LOAD (M) 100% 6406.25  
 TOTAL DEMAND 7031  
 AMPS @ 120/208 20

PANEL L1A		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION: MAIN ELEC RM		WIRE		4 AIC		MLO 100A							
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST		20	1	LAB TABLE 110	720	A	1080 RM 105, 106, 107	20	1	EXIST		2
3	EXIST		20	1	LAB TABLE 110	720	B	1080 RM 105, 106, 108	20	1	EXIST		4
5	EXIST		20	1	LAB TABLE 110	720	C	360 RM 108, 109	20	1	EXIST		6
7	EXIST		20	1	LAB TABLE 110	720	A	1080 RM 103, 104	20	1	EXIST		8
9	EXIST		20	1	LAB TABLE 110	720	B	1080 RM 103, 104	20	1	EXIST		10
11	EXIST		20	1	LAB TABLE 110	720	C	1080 RM 103, 104	20	1	EXIST		12
13	EXIST		20	1	LAB TABLE 110	720	A	1080 RM 103, 104	20	1	EXIST		14
15	EXIST		20	1	LAB TABLE 110	720	B	1080 RM 103, 104	20	1	EXIST		16
17	EXIST		20	1	L/TBL 110 SMART PNL	500	C	SPARE					18
19	EXIST		20	1	LAB TABLE 110	360	A	SPARE					20
21	EXIST		20	1	RM 110 WIREMOLD	900	B	SPARE					22
23	EXIST		20	1	RM 110 WIREMOLD	900	C	SPARE					24
25	EXIST		20	1	RM 110 WIREMOLD	900	A	SPARE					26
27	EXIST		20	1	RM 110	180	B	150 BMS PANEL	20	1	EXIST		28
29	EXIST		20	1	RM 110 COUNTER	360	C	100 COND PUMP ACU-1-1	20	1	EXIST		30
31	EXIST		20	1	RM 110 COUNTER	360	A	200 COND PUMP HPI-3.4	20	1	EXIST		32
33	EXIST		20	1	RM 110 HOOD	360	B	500 TAMPER SWITCH					34
35	EXIST		20	1	RM 110 HOOD	360	C	500 TAMPER SWITCH					36
37	EXIST		20	1	RM 110 PROJECTOR		A	132 ACU-1-1	15	1	EXIST		38
39	EXIST		20	1	PH MONITOR 110	500	B	2300 CU-1-1	25	2	EXIST		40
41							C	2300					42

PHASE A 7352 SUBTOTAL DEMAND CALCULATION  
 PHASE B 10290 0 CONTINUOUS LOAD (C) 125% 0  
 PHASE C 7900 0 DEDICATED LOAD (D) 100% 0  
 0 GENERAL LOAD (G) 100 1ST 10KVA, 50% REST 5  
 LARGEST MOTOR 25% 0  
 0 MOTOR LOAD (M) 100% 0  
 TOTAL DEMAND 5  
 AMPS @ 120/208 14

PANEL L1B		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION: CORRIDOR		WIRE		4 AIC		MLO 100A							
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	LAB TABLE 112	720	A	900 SC. PREP RM 111	30	1	G	EXIST	2
3	EXIST	G	20	1	LAB TABLE 112	720	B	900 SC. PREP RM 111	30	1	G	EXIST	4
5	EXIST	G	20	1	LAB TABLE 112	720	C	900 SC. PREP RM 111	30	1	G	EXIST	6
7	EXIST	G	20	1	LAB TABLE 112	720	A	900 RM 111 WIREMOLD	20	1	G	EXIST	8
9	EXIST	G	20	1	LAB TABLE 112	720	B	360 RM 111 HOOD	20	1	G	EXIST	10
11	EXIST	G	20	1	LAB TABLE 112	720	C	180 RM 111	20	1	G	EXIST	12
13	EXIST	G	20	1	LAB TABLE 112	720	A	1000 RM 111 REFRIG	20	1	G	EXIST	14
15	EXIST	G	20	1	LAB TABLE 112	720	B	1000 RM 111 KEMACHINE	20	1	G	EXIST	16
17	EXIST	G	20	1	RM 112 TBL SMART PNL	500	C	1000 RM 111 DISHWASHER	20	1	G	EXIST	18
19	EXIST	G	20	1	LAB TABLE 112	360	A	360 RM 111 TABLE W/MOLD	20	1	G	EXIST	20
21	EXIST	G	20	1	LAB 112	180	B	360 RM 111 TABLE W/MOLD	20	1	G	EXIST	22
23	EXIST	M	20	1	LAB 112 EX. HOOD	300	C	540 RM 111 COUNTER	20	1	G	EXIST	24
25	EXIST	M	20	1	LAB 112 EX. HOOD	300	A	360 RM 111 HOOD	20	1	G	EXIST	26
27	EXIST	G	20	1	LAB 112 WIREMOLD	900	B	1000 PH MONITOR 111, 112	20	1	G	EXIST	28
29	EXIST	G	20	1	LAB 112 WIREMOLD	900	C	FOL-1.2	20	2	M		30
31	EXIST	G	20	1	LAB 112 WIREMOLD	900	A	---					32
33	EXIST	G	20	1	LAB 112 WIREMOLD	900	B	FOL-3.4	20	2	M		34
35	EXIST	G	20	1	LAB 112 WIREMOLD	900	C	---					36
37	EXIST	G	20	1	LAB 112 COUNTER	1080	A	593 HP-B-1.4	15	2	M	EXIST	38
39	EXIST	G	20	1	LAB 112 COUNTER	1080	B	593					40
41	EXIST	G	20	1	LAB 112 PROJECTOR	500	C	200 COND PUMP HPI-1.2	20	1	M	EXIST	42

PHASE A 8913 SUBTOTAL DEMAND CALCULATION  
 PHASE B 9433 0 CONTINUOUS LOAD (C) 125% 0  
 PHASE C 7360 0 DEDICATED LOAD (D) 100% 0  
 23720 GENERAL LOAD (G) 100 1ST 10KVA, 50% REST 28650  
 LARGEST MOTOR 25% 0  
 1986 MOTOR LOAD (M) 100% 2482.5  
 TOTAL DEMAND 32133  
 AMPS @ 120/208 69

PANEL L1C		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION: CORRIDOR		WIRE		4 AIC		MLO 100A							
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	CLASSROOM 114	900	A	2400 DATA RM 115	30	1	G	EXIST	2
3	EXIST	G	20	1	CLASSROOM 114	720	B	2400 DATA RM 115	30	1	G	EXIST	4
5	EXIST	G	20	1	ROOM 114 PROJECTOR	500	C	360 DATA RM 115	20	1	G	EXIST	6
7	EXIST	G	20	1	ROOM 114 SMART PANEL	720	A	SPACE					8
9	EXIST	G	20	1	ROOM 114 SMART PANEL	720	B	SPACE					10
11	EXIST	G	20	1	CLASSROOM 118	720	C	SPACE					12
13	EXIST	G	20	1	CLASSROOM 118	720	A	SPACE					14
15	EXIST	G	20	1	ROOM 118 PROJECTOR	500	B	SPACE					16
17	EXIST	G	20	1	ROOM 114 SMART PANEL	720	C	SPACE					18
19	EXIST	G	20	1	ROOM 114 SMART PANEL	720	A	SPACE					20
21	EXIST	G	20	1	RESTROOMS, HALL	1280	B	SPACE					22
23	EXIST	G	20	1	OUTDOOR THEATER	360	C	SPACE					24
25					SPACE		A	SPACE					26
27					SPACE		B	SPACE					28
29					SPACE		C	SPACE					30
31					SPACE		A	SPACE					32
33					SPACE		B	SPACE					34
35					SPACE		C	100 COND PUMP ACU-1-1	20	1	M	EXIST	36
37					SPACE		A	132 ACU-2 RM 115	15	1	M	EXIST	38
39					SPACE		B	2300 CU-1-2 RM 115, ROOF	25	2	M	EXIST	40
41					SPACE		C	2300					42

PHASE A 5592 SUBTOTAL DEMAND CALCULATION  
 PHASE B 7900 0 CONTINUOUS LOAD (C) 125% 0  
 PHASE C 5080 0 DEDICATED LOAD (D) 100% 0  
 13720 GENERAL LOAD (G) 100 1ST 10KVA, 50% REST 17150  
 LARGEST MOTOR 25% 0  
 4832 MOTOR LOAD (M) 100% 6040  
 TOTAL DEMAND 23190  
 AMPS @ 120/208 64

PANEL HM-1		PHASE		3 VOLTAGE 277/480		MCB	

PANEL 'L2C'		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION:		WIRE		4 AIC		MLO 225A							
FED FROM:													
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	RM 232, 233, 241	900	A	1090 RM 237, 238	20	1	G	EXIST	2
3	EXIST	G	20	1	RM 232, 233, 241	900	B	1090 RM 237, 238	20	1	G	EXIST	4
5	EXIST	G	20	1	RM 232, 233, 241	900	C	1090 RM 239, 240	20	1	G	EXIST	6
7	EXIST	G	20	1	RM 233, COFFEE	1200	A	720 RM 239, 240	20	1	G	EXIST	8
9	EXIST	G	20	1	RM 233, MICROWAVE	1200	B	720 RM 240	20	1	G	EXIST	10
11	EXIST	G	20	1	RM 233, CONVEN	180	C	900 RM 230,31,43,44,45	20	1	G	EXIST	12
13	EXIST	G	20	1	RM 233, REFRIGERATOR	1000	A	900 RM 244, FAX, PRINTER	20	1	G	EXIST	14
15	EXIST	G	20	1	RM 233	360	B	900 RM 244, FAX, PRINTER	20	1	G	EXIST	16
17	EXIST	G	20	1	RM 234, 235, 236	1080	C	900 RM 244, FAX, PRINTER	20	1	G	EXIST	18
19	EXIST	G	20	1	RM 234, 235, 236	1080	A	1500 RM 244, PHOTOCOPIER	20	1	G	EXIST	20
21	EXIST	G	20	1	RM 234, 235, 236	1080	B	500 MOTORIZED SHADES	20	1	G	EXIST	22
23	EXIST	G	20	1	RM 242	2400	C	500 MOTORIZED SHADES	20	1	G	EXIST	24
25	EXIST	G	20	1	RM 242	2400	A	180 ROOF	20	1	G	EXIST	26
27	EXIST	G	20	1	RM 242	180	B	769.5 FCU - 7, FCU - 8	15	2	M	EXIST	28
29	EXIST	M	20	1	CR PUMP HP-12,13,14	400	C	769.5 ----			M	EXIST	30
31	EXIST	M	15	2	HP-A-2-14	405.5	A	405.5 HP-A-2-16	15	2	M	EXIST	32
33	EXIST	M				405.5	B	405.5			M	EXIST	34
35	EXIST	M	15	2	FCU - 9, FCU - 10	769.5	C	240 EF-5 RESTROOM 243	20	1	M	EXIST	36
37	EXIST	M				769.5	A	135 ACU-2-1 INDOORS	20	1	M	EXIST	38
39	EXIST	M	15	2	HP-B-2-12	593	B	1300 CLU-3-1 IT RM ROOF	25	2	M	EXIST	40
41	EXIST	M				593	C	1300			M	EXIST	42
PHASE A		12676		SUBTOTAL		DEMAND CALCULATION							
PHASE B		10394		0		CONTINUOUS LOAD (C) 125%						0	
PHASE C		12012		0		DEDICATED LOAD (D) 100%						0	
				25820		GENERAL LOAD (G) 100 1ST 10KVA, 50% REST						32275	
NOTES:						LARGEST MOTOR 25%						0	
* AMPS ADDED FROM PANEL 'L2C' CONT. SHEET				9261		MOTOR LOAD (M) 100%						11576.25	
						TOTAL DEMAND						43851	
						AMPS @ 120/208						133	

PANEL 'L2C' CONT.		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION:		WIRE		4 AIC		MLO 225A							
FED FROM:													
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
43	EXIST	G	20	1	VENDING MACHINE	1000	A		20	1	G	EXIST	44
45	EXIST	G	20	1	VENDING MACHINE	1000	B		20	1	G	EXIST	46
47	EXIST	G	20	1	VENDING MACHINE	1000	C		20	1	G	EXIST	48
49	EXIST	G	20	1	CONV REC.	180	A		20	1	G	EXIST	50
51	EXIST	G	20	1			B						52
53	EXIST	G	20	1			C						54
55	EXIST	G	20	1			A						56
57	EXIST	G	20	1			B						58
59	EXIST	G	20	1			C						60
61	EXIST	G	20	1			A						62
63	EXIST	G	20	1			B						64
65	EXIST	G	20	1			C						66
67	EXIST	G	20	1			A						68
69	EXIST	G	20	1			B						70
71	EXIST	G	20	1			C						72
73	EXIST	G	20	1			A						74
75	EXIST	G	20	1			B						76
77	EXIST	G	20	1			C						78
79	EXIST	G	20	1			A						80
81	EXIST	G	20	1			B						82
83	EXIST	G	20	1			C						84
PHASE A		1180		SUBTOTAL		DEMAND CALCULATION							
PHASE B		1000		0		CONTINUOUS LOAD (C) 125%						0	
PHASE C		1000		0		DEDICATED LOAD (D) 100%						0	
				3180		GENERAL LOAD (G) 100 1ST 10KVA, 50% REST						3975	
NOTES:						LARGEST MOTOR 25%						0	
* TOTAL AMPS ADDED TO PANEL 'L2C'				0		MOTOR LOAD (M) 100%						0	
						TOTAL DEMAND						3975	
						AMPS @ 120/208						11	

PANEL 'L2D'		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION: CORRIDOR		WIRE		4 AIC		MLO 150A							
FED FROM:													
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	M	40	2	CU - 1		A	CU - 6	20	2	M		2
3	EXIST	M	40	2	CU - 2		B	CU - 7	20	2	M		4
5	EXIST	M	40	2	CU - 3		C	CU - 8	20	2	M		6
7	EXIST	M	20	2	CU - 4		A	CU - 9	20	2	M		8
9	EXIST	M	20	2	CU - 5		B	CU - 10	20	2	M		10
11	EXIST	M	20	2	CU - 6		C						12
13	EXIST	M	20	2	CU - 7		A						14
15	EXIST	M	20	2	CU - 8		B						16
17	EXIST	M	20	2	CU - 9		C						18
19	EXIST	M	20	2	CU - 10		A						20
21	EXIST	M	20	2	CU - 11		B						22
23	EXIST	M	20	2	CU - 12		C						24
25	EXIST	M	20	2	CU - 13		A						26
27	EXIST	M	20	2	CU - 14		B						28
29	EXIST	M	20	2	CU - 15		C						30
PHASE A		0		SUBTOTAL		DEMAND CALCULATION							
PHASE B		0		0		CONTINUOUS LOAD (C) 125%						0	
PHASE C		0		0		DEDICATED LOAD (D) 100%						0	
				0		GENERAL LOAD (G) 100 1ST 10KVA, 50% REST						0	
NOTES:						LARGEST MOTOR 25%						0	
0				0		MOTOR LOAD (M) 100%						0	
						TOTAL DEMAND						0	
						AMPS @ 120/208						0	

PANEL 'L2A'		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION: 2ND FLR ELEC RM		WIRE		4 AIC		MLO 100A							
FED FROM:													
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
1	EXIST	G	20	1	CLASSROOM 212	720	A	360 COMP LAB 208	20	1	G	EXIST	2
3	EXIST	G	20	1	CLASSROOM 212	720	B	360 COMP LAB 208	20	1	G	EXIST	4
5	EXIST	G	20	1	COMP LAB 211 PROJECTOR	500	C	360 COMP LAB 208	20	1	G	EXIST	6
7	EXIST	G	20	1	CR 212 SMART PANEL	500	A	360 COMP LAB 208	20	1	G	EXIST	8
9	EXIST	G	20	1	CR 212 SMART PANEL	500	B	360 COMP LAB 208	20	1	G	EXIST	10
11	EXIST	G	20	1	COMP LAB 211	360	C	360 COMP LAB 208	20	1	G	EXIST	12
13	EXIST	G	20	1	COMP LAB 211	360	A	540 COMP LAB 208	20	1	G	EXIST	14
15	EXIST	G	20	1	COMP LAB 211	360	B	360 COMP LAB 208	20	1	G	EXIST	16
17	EXIST	G	20	1	COMP LAB 211	360	C	360 COMP LAB 208	20	1	G	EXIST	18
19	EXIST	G	20	1	COMP LAB 211	540	A	500 CR 208 PROJECTOR	20	1	G	EXIST	20
21	EXIST	G	20	1	COMP LAB 211	360	B	500 CR 208 SUB WOOFER	20	1	G	EXIST	22
23	EXIST	G	20	1	COMP LAB 211	360	C	500 CR 208 SMART PNL	20	1	G	EXIST	24
25	EXIST	G	20	1	COMP LAB 211	360	A	720 CLASSROOM 207	20	1	G	EXIST	26
27	EXIST	G	20	1	COMP LAB 211	360	B	720 CLASSROOM 207	20	1	G	EXIST	28
29	EXIST	G	20	1	CL LAB 211 PROJECTOR	500	C	720 CL/R 207 SMART PANEL	20	1	G	EXIST	30
31	EXIST	G	20	1	CR 207 SMART PANEL	500	A	500 CR 207 PROJECTOR	20	1	G	EXIST	32
33	EXIST	G	20	1	CR 212 SMART PANEL	500	B	500 CR 207 SUB WOOFER	20	1	G	EXIST	34
35	EXIST	G	20	1	IT ROOM 209	360	C	900 STUFFY LOUNGE 206	20	1	G	EXIST	36
37	EXIST	G	20	1	IT ROOM 209	360	A	540 ROOF WP	20	1	G	EXIST	38
39	EXIST	G	20	1	IT ROOM 210	360	B	540 ROOF WP	20	1	G	EXIST	40
41	EXIST	G	20	1	RM 210	2400	C						42
PHASE A		6880		SUBTOTAL		DEMAND CALCULATION							
PHASE B		6500		0		CONTINUOUS LOAD (C) 125%						0	
PHASE C		8040		0		DEDICATED LOAD (D) 100%						0	
				21400		GENERAL LOAD (G) 100 1ST 10KVA, 50% REST						26750	
NOTES:						LARGEST MOTOR 25%						0	
* AMPS ADDED FROM PANEL 'L2A' CONT. SHEET				0		MOTOR LOAD (M) 100%						0	
						TOTAL DEMAND						26750	
						AMPS @ 120/208						107	

PANEL 'L2A' CONT.		PHASE		3 VOLTAGE 120/208		MCB							
LOCATION: 2ND FLR ELEC RM		WIRE		4 AIC		MLO 100A							
FED FROM:													
CKT	NOTES	TYPE	T	P	DESCRIPTION	LOAD	LOAD	DESCRIPTION	T	P	TYPE	NOTES	CKT
43	EXIST	G	20	1	RM 210	2400	A						44
45	EXIST	G	20	1	RM 210	2400	B						46
47	EXIST	M	20	1	PUMP FOR WH-1,2 ROOF	400	C	300 COND PUMP CRAC 1,2,3	20	1	M	EXIST	48
49	EXIST	M	20	1	WH-1, ROOF	200	A	530.5 CU-2-1/CRAC-1, RM 210	15	2	M	EXIST	50
51	EXIST	M	20	1	WH-2, ROOF	200	B	530.5					52
53	EXIST	M	20	1	B-1, ROOF	480	C	530.5 CU-2-2/CRAC-2, RM 210	15	2	M	EXIST	54
55	EXIST	M	20	1	SPACE		A						





Table with columns for Equipment Tags and System Description, FCU-8/FCU-9, and FCU-10/FCU-10. Includes sections for Mandatory Measures and Prescriptive Measures.

Table with columns for Equipment Tags and System Description, Laars PNCH0750, and FCU-10/FCU-10. Includes sections for Mandatory Measures and Prescriptive Measures.

Documentation Author's Declaration Statement and Responsible Designer's Declaration Statement. Includes fields for company name (EDesignC), address, and signatures.

Table for Mechanical Ventilation and Reheat compliance. Columns include equipment types (VAV, VAV Reheat, VAV Deadband) and various performance metrics (A-T).

Table for Mechanical Ventilation and Reheat compliance. Columns include equipment types (VAV, VAV Reheat, VAV Deadband) and various performance metrics (A-T).

Table for Mechanical Ventilation and Reheat compliance. Columns include equipment types (VAV, VAV Reheat, VAV Deadband) and various performance metrics (A-T).

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SOLANO COMMUNITY COLLEGE DISTRICT  
VACAVILLE CENTER  
MECHANICAL EQUIPMENT REPLACEMENT



MECHANICAL SCHEDULES, NOTES AND LEGEND  
Date: 9/30/2016  
Scale: 1/8"=1'-0"  
Drawn: -  
Job: 16SCC01  
Sheet: T24.3  
Of: Sheets

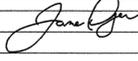




STATE OF CALIFORNIA  
**REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS**  
 CEC-NRCC-MCH-05-E (Revised 05/15)  
 CERTIFICATE OF COMPLIANCE  
 Requirements for Packaged Single-Zone Units  
 Project Name: Vacaville Community College Mechanical Equipment Replacement Date Prepared: 3/7/2017  
 NRCC-MCH-05-E (Page 2 of 2)

11. If duct leakage sealing and testing is required, a MCH-04-A form must be submitted.

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

Documentation Author Name: James Dyer Signature Date: 3/7/2017  
 Company: EDesignC, Inc. Signature:   
 Address: 212 9th St, Suite 203 CEA/HERS Certification Identification (if applicable):  
 City/State/Zip: Oakland, CA 94607 Phone: (415) 963-4303 x109

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: James Dyer Responsible Designer Signature:   
 Company: EDesignC Date Signed: 3/7/2017  
 Address: 582 Market St, Suite 400 License: M25378  
 City/State/Zip: San Francisco, Ca 94104 Phone: 415.963.4303

STATE OF CALIFORNIA  
**FAN POWER CONSUMPTION**  
 CEC-NRCC-MCH-07-E (Revised 05/15)  
 CERTIFICATE OF COMPLIANCE  
 Power Consumption of Fans Requirements  
 Project Name: Vacaville Community College Mechanical Equipment Replacement Date Prepared: 3/7/2017  
 NRCC-MCH-07-E (Page 1 of 2)

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
RTU-1 - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Return Fan	0.505	85.5 %	97.0 %	1.0	650

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**  
 FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards. 1,325 W  
 2) SUPPLY DESIGN AIRFLOW 1,200 CFM  
 A) If filter pressure drop (SP<sub>f</sub>) is greater than 1 inch W.C. or 245 Pascal then enter SP<sub>f</sub> on line 4. Enter Total Fan pressure drop across the fan (SP) on Line 5. 1.104 W/CFM  
 4) SP<sub>f</sub> in W.C. or Pa  
 B) Calculate Fan Adjustment and enter on line 6. in W.C. or Pa  
 5) SP<sub>f</sub>  
 C) Calculate Adjusted Fan Power Index and enter on Row 7. 1.104 W/CFM  
 6) Fan Adjustment = 1-(SP<sub>f</sub> - 1)/SP<sub>f</sub>  
 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)<sup>1</sup>

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA  
**FAN POWER CONSUMPTION**  
 CEC-NRCC-MCH-07-E (Revised 05/15)  
 CERTIFICATE OF COMPLIANCE  
 Power Consumption of Fans Requirements  
 Project Name: Vacaville Community College Mechanical Equipment Replacement Date Prepared: 3/7/2017  
 NRCC-MCH-07-E (Page 1 of 2)

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
RTU-2 - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Return Fan	0.505	85.5 %	97.0 %	1.0	650

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**  
 FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards. 1,325 W  
 2) SUPPLY DESIGN AIRFLOW 1,600 CFM  
 A) If filter pressure drop (SP<sub>f</sub>) is greater than 1 inch W.C. or 245 Pascal then enter SP<sub>f</sub> on line 4. Enter Total Fan pressure drop across the fan (SP) on Line 5. 0.828 W/CFM  
 4) SP<sub>f</sub> in W.C. or Pa  
 B) Calculate Fan Adjustment and enter on line 6. in W.C. or Pa  
 5) SP<sub>f</sub>  
 C) Calculate Adjusted Fan Power Index and enter on Row 7. 0.828 W/CFM  
 6) Fan Adjustment = 1-(SP<sub>f</sub> - 1)/SP<sub>f</sub>  
 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)<sup>1</sup>

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA  
**FAN POWER CONSUMPTION**  
 CEC-NRCC-MCH-07-E (Revised 05/15)  
 CERTIFICATE OF COMPLIANCE  
 Power Consumption of Fans Requirements  
 Project Name: Vacaville Community College Mechanical Equipment Replacement Date Prepared: 3/7/2017  
 NRCC-MCH-07-E (Page 1 of 2)

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
RTU-3 - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Return Fan	0.505	85.5 %	97.0 %	1.0	650

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**  
 FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards. 1,325 W  
 2) SUPPLY DESIGN AIRFLOW 1,200 CFM  
 A) If filter pressure drop (SP<sub>f</sub>) is greater than 1 inch W.C. or 245 Pascal then enter SP<sub>f</sub> on line 4. Enter Total Fan pressure drop across the fan (SP) on Line 5. 1.104 W/CFM  
 4) SP<sub>f</sub> in W.C. or Pa  
 B) Calculate Fan Adjustment and enter on line 6. in W.C. or Pa  
 5) SP<sub>f</sub>  
 C) Calculate Adjusted Fan Power Index and enter on Row 7. 1.104 W/CFM  
 6) Fan Adjustment = 1-(SP<sub>f</sub> - 1)/SP<sub>f</sub>  
 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)<sup>1</sup>

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA  
**FAN POWER CONSUMPTION**  
 CEC-NRCC-MCH-07-E (Revised 05/15)  
 CERTIFICATE OF COMPLIANCE  
 Power Consumption of Fans Requirements  
 Project Name: Vacaville Community College Mechanical Equipment Replacement Date Prepared: 3/7/2017  
 NRCC-MCH-07-E (Page 1 of 2)

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
RTU-4 - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Return Fan	0.505	85.5 %	97.0 %	1.0	650

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**  
 FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards. 1,325 W  
 2) SUPPLY DESIGN AIRFLOW 1,200 CFM  
 A) If filter pressure drop (SP<sub>f</sub>) is greater than 1 inch W.C. or 245 Pascal then enter SP<sub>f</sub> on line 4. Enter Total Fan pressure drop across the fan (SP) on Line 5. 1.104 W/CFM  
 4) SP<sub>f</sub> in W.C. or Pa  
 B) Calculate Fan Adjustment and enter on line 6. in W.C. or Pa  
 5) SP<sub>f</sub>  
 C) Calculate Adjusted Fan Power Index and enter on Row 7. 1.104 W/CFM  
 6) Fan Adjustment = 1-(SP<sub>f</sub> - 1)/SP<sub>f</sub>  
 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)<sup>1</sup>

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA  
**FAN POWER CONSUMPTION**  
 CEC-NRCC-MCH-07-E (Revised 05/15)  
 CERTIFICATE OF COMPLIANCE  
 Power Consumption of Fans Requirements  
 Project Name: Vacaville Community College Mechanical Equipment Replacement Date Prepared: 3/7/2017  
 NRCC-MCH-07-E (Page 1 of 2)

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
RTU-5 - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Return Fan	0.505	85.5 %	97.0 %	1.0	650

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**  
 FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards. 1,325 W  
 2) SUPPLY DESIGN AIRFLOW 1,600 CFM  
 A) If filter pressure drop (SP<sub>f</sub>) is greater than 1 inch W.C. or 245 Pascal then enter SP<sub>f</sub> on line 4. Enter Total Fan pressure drop across the fan (SP) on Line 5. 0.828 W/CFM  
 4) SP<sub>f</sub> in W.C. or Pa  
 B) Calculate Fan Adjustment and enter on line 6. in W.C. or Pa  
 5) SP<sub>f</sub>  
 C) Calculate Adjusted Fan Power Index and enter on Row 7. 0.828 W/CFM  
 6) Fan Adjustment = 1-(SP<sub>f</sub> - 1)/SP<sub>f</sub>  
 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)<sup>1</sup>

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

STATE OF CALIFORNIA  
**FAN POWER CONSUMPTION**  
 CEC-NRCC-MCH-07-E (Revised 05/15)  
 CERTIFICATE OF COMPLIANCE  
 Power Consumption of Fans Requirements  
 Project Name: Vacaville Community College Mechanical Equipment Replacement Date Prepared: 3/7/2017  
 NRCC-MCH-07-E (Page 1 of 2)

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
RTU-6 - Supply Fan	0.750	85.5 %	97.0 %	1.0	675
Return Fan	0.505	85.5 %	97.0 %	1.0	650

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of Fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**  
 FILTER PRESSURE ADJUSTMENT Equation 140.4-A in §140.4(c) of the Building Energy Efficiency Standards. 1,325 W  
 2) SUPPLY DESIGN AIRFLOW 1,200 CFM  
 A) If filter pressure drop (SP<sub>f</sub>) is greater than 1 inch W.C. or 245 Pascal then enter SP<sub>f</sub> on line 4. Enter Total Fan pressure drop across the fan (SP) on Line 5. 1.104 W/CFM  
 4) SP<sub>f</sub> in W.C. or Pa  
 B) Calculate Fan Adjustment and enter on line 6. in W.C. or Pa  
 5) SP<sub>f</sub>  
 C) Calculate Adjusted Fan Power Index and enter on Row 7. 1.104 W/CFM  
 6) Fan Adjustment = 1-(SP<sub>f</sub> - 1)/SP<sub>f</sub>  
 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6)<sup>1</sup>

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

ISSUES

  
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SOLANO COMMUNITY COLLEGE DISTRICT  
 VACAVILLE CENTER  
 MECHANICAL EQUIPMENT REPLACEMENT

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 02 11 67 08  
 JAMES DYER  
 DATE 11/13/17

MECHANICAL  
 SCHEDULES, NOTES  
 AND LEGEND

Date: 9/30/2016  
 Scale: 1/8"=1'-0"  
 Drawn: -  
 Job: 16SCC01  
 Sheet  
**T24.6**  
 Of Sheets





**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
FCU-8/UCU-6 - Supply Fan	0.330	85.5 %	97.0 %	1.0	297

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**

1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	297	W
2) SUPPLY DESIGN AIRFLOW	585	CFM
3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2) <sup>1</sup>	0.507	W/CFM
4) SP <sub>a</sub>		in W.C. or Pa
5) SP <sub>i</sub>		in W.C. or Pa
6) Fan Adjustment = 1 - (SP <sub>a</sub> - 1) / SP <sub>i</sub>		
7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) <sup>1</sup>	0.507	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
FCU-7/UCU-7 - Supply Fan	0.330	85.5 %	97.0 %	1.0	297

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**

1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	297	W
2) SUPPLY DESIGN AIRFLOW	585	CFM
3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2) <sup>1</sup>	0.507	W/CFM
4) SP <sub>a</sub>		in W.C. or Pa
5) SP <sub>i</sub>		in W.C. or Pa
6) Fan Adjustment = 1 - (SP <sub>a</sub> - 1) / SP <sub>i</sub>		
7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) <sup>1</sup>	0.507	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
FCU-8/UCU-8 - Supply Fan	0.330	85.5 %	97.0 %	1.0	297

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**

1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	297	W
2) SUPPLY DESIGN AIRFLOW	585	CFM
3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2) <sup>1</sup>	0.507	W/CFM
4) SP <sub>a</sub>		in W.C. or Pa
5) SP <sub>i</sub>		in W.C. or Pa
6) Fan Adjustment = 1 - (SP <sub>a</sub> - 1) / SP <sub>i</sub>		
7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) <sup>1</sup>	0.507	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
FCU-8/UCU-9 - Supply Fan	0.330	85.5 %	97.0 %	1.0	297

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**

1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	297	W
2) SUPPLY DESIGN AIRFLOW	585	CFM
3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2) <sup>1</sup>	0.507	W/CFM
4) SP <sub>a</sub>		in W.C. or Pa
5) SP <sub>i</sub>		in W.C. or Pa
6) Fan Adjustment = 1 - (SP <sub>a</sub> - 1) / SP <sub>i</sub>		
7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) <sup>1</sup>	0.507	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

**Constant Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Constant Volume Fan Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		
FCU-10/UCU-10 - Supply Fan	0.330	85.5 %	97.0 %	1.0	297

**Variable Air Volume Fans Systems**  
 NOTE: Provide one copy of this worksheet for each fan system with a total fan system horsepower greater than 25 hp of Variable Air Volume (VAV) Systems when using the Prescriptive Approach. See Power Consumption of fans §140.4(c).

FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIENCY		NUMBER OF FANS	PEAK WATTS B x E x 746 / (C x D)
		MOTOR	DRIVE		

**Totals and Adjustments**

1) TOTAL FAN SYSTEM POWER (WATTS, SUM COLUMN F)	297	W
2) SUPPLY DESIGN AIRFLOW	585	CFM
3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row 2) <sup>1</sup>	0.507	W/CFM
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7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) <sup>1</sup>	0.507	W/CFM

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 w/cfm for Constant Volume systems or 1.25 w/cfm for VAV systems.

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: James Dyer Documentation Author Signature: *[Signature]*  
 Company: EDesignC, Inc. Signature Date: 3/7/2017  
 Address: 212 9th St, Suite 203 CEAT/HERS Certification Identification (if applicable):  
 City/State/Zip: Oakland, CA 94607 Phone: (415) 963-4303 x109

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: James Dyer Responsible Designer Signature: *[Signature]*  
 Company: EDesignC Date Signed: 3/7/2017  
 Address: 582 Market St. Suite 400 License: M25378  
 City/State/Zip: San Francisco, Ca 94104 Phone: 415.963.4303

ISSUES

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 OAKLAND, CA 94612

Seal & Signature: *[Seal]*

SOLANO COMMUNITY COLLEGE DISTRICT  
 VACAVILLE CENTER  
 MECHANICAL EQUIPMENT REPLACEMENT

MECHANICAL SCHEDULES, NOTES AND LEGEND

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 02 15 703  
 DATE 4/15/17

Date: 9/30/2016  
 Scale: 1/8"=1'-0"  
 Drawn: -  
 Job: 16SCC01  
 Sheet: T24.9  
 Of: Sheets