# PALOMAR COMMUNITY COLLEGE

# BEHAVIORAL HEALTH | NB-2 REMODEL

1140 W. MISSION RD., SAN MARCOS, CA 92069-1487

PART 1

UNTIL

# GENERAL NOTES

- CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK, NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES
- BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER
- CONDITION. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
- CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT
- INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER
- CUTTING. BORING. SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
- WHERE NEW CONSTRUCTION ABUTS EXISTING FINISHED SURFACES, CONTRACTOR SHALL ALIGN NEW CONSTRUCTION SO THAT NEW FINISHES ARE FLUSH WITH EXISTING. MATCH EXISTING TEXTURES AND COLORS. A CERTIFIED PROJECT INSPECTOR, EMPLOYED BY THE DISTRICT (OWNER) SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24,

	JULY 1, 2014)
PART 2	2013 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R. (2012 IBC OF ICC
PART 3	2013 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2011 NATIONA
PART 4	2013 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2012 UNIFOR
PART 5	2013 CALIFORNIA PLUMBING CODE (CPC), TÍTLE 24 C.C.R. (2012 UNIFORM F
PART 6	2013 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
	(THE 2013 CALIFORNIA ENERGY CODE GOES INTO EFFECT JULY 1, 2014. TH
	REMAINS IN EFFECT UNTIL JULY 1, 2014)
PART 7	CURRENTLY VACANT
PART 8	2013 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.
PART 9	2013 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2012 INTERNATIONAL FIRE C
PART 10	2013 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2012 INTERNA
ICC,	WITH AMENDMENTS)
PART 11	2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE)
	(PER "BSCBULLETIN-13-07", ONLY AFFECTED ENERGY PROVISIONS OF THE
/*	JULY 1, 2014)
PART 12	2013 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.
	<u>LIST OF APPLICABLE STANDARDS:</u> AL NFPA APPLICABLE STANDARDS SHALL BE AS LISTED IN THE PROJECT S
PROJECT	
	FORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35
2013 CALI	ORNIA BUILDING CODE (FOR SENI) REEERENGED STANDARDS CHAFTER 33
NFPA 13	AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED)
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS
NFPA 17A	
NFPA 20	STATIONARY PUMPS

APPLICABLE CODES

LIST OF 2013 CALIFORNIA CODE OF REGULATIONS (C.C.R.):

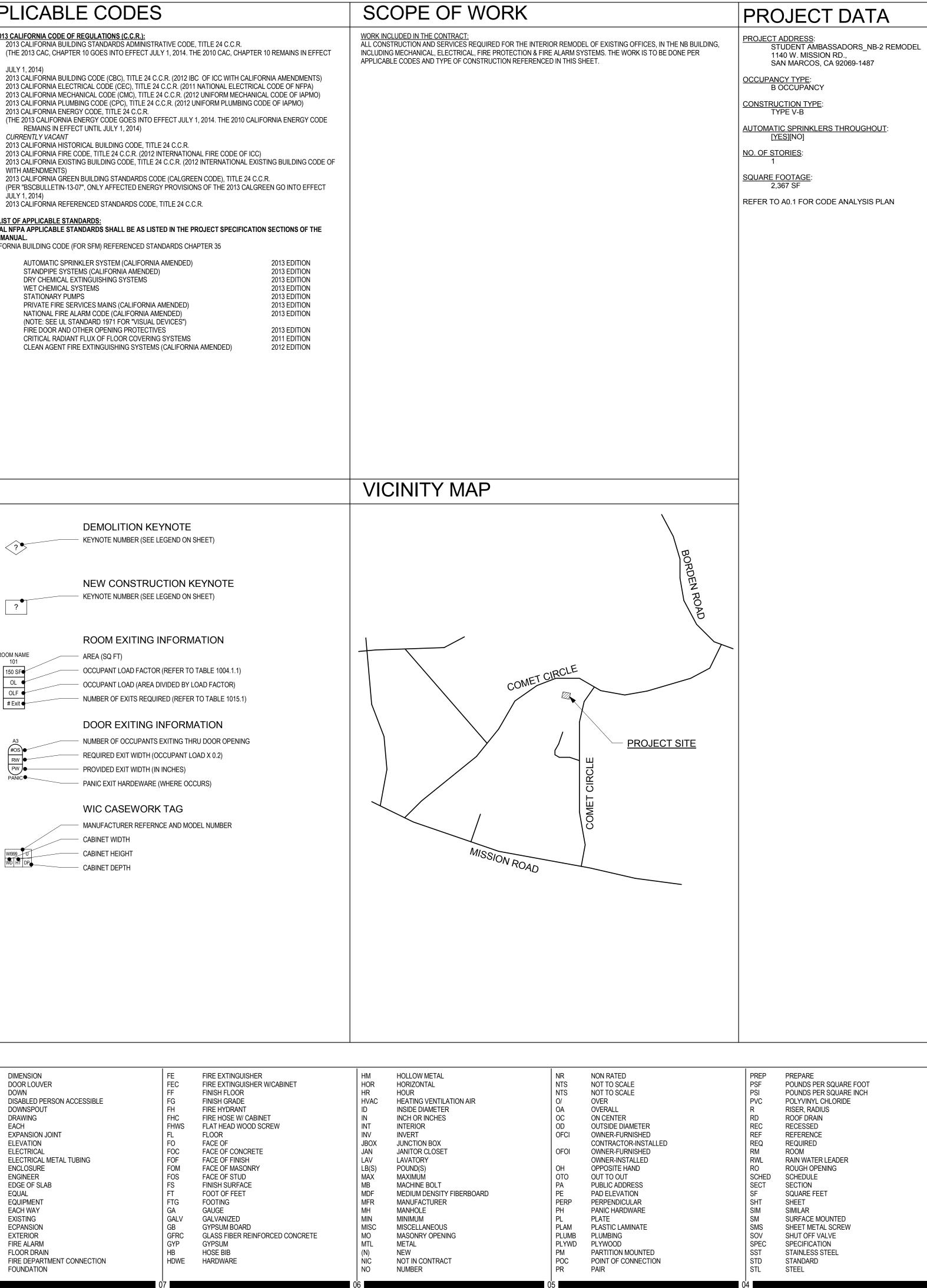
STATIONARY PUMPS NFPA 24 PRIVATE FIRE SERVICES MAINS (CALIFORNIA AMENDED) NATIONAL FIRE ALARM CODE (CÀLIFORNIA AMENDED) NFPA 72 (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES") NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED)

# SYMBOLOGY

C.C.R..

in the second se	NORTH ARROW – OVERLAY ARROW INDICATES TRUE NORTH – SHADED AREA INDICATES PLAN NORTH	?•	DEMOLITION KEYNOTE KEYNOTE NUMBER (SEE LEGEND ON SHEET)
SIM• 1 / A101•	ELEVATION CALLOUT (TYPICAL FOR EXTERIOR AND INTERIOR) — INDICATES A SIMILAR CONDITION — SHEET WHERE SECTION IS DRAWN — LOCATION ON SHEET	?	NEW CONSTRUCTION KEYNOTE KEYNOTE NUMBER (SEE LEGEND ON SHEET)
1. SIM A101 A101 A101 LEVEL 01	<ul> <li>SECTION CALLOUT</li> <li>INDICATES A SIMILAR CONDITION</li> <li>LOCATION ON SHEET</li> <li>SHEET WHERE SECTION IS DRAWN</li> <li>DETAIL CALLOUT</li> <li>INDICATES A SIMILAR CONDITION</li> <li>LOCATION ON SHEET</li> <li>SHEET WHERE SECTION IS DRAWN</li> <li>CONTROL OR DATUM POINT</li> <li>NAME OF ELEVATION (IF APPLICABLE)</li> <li>ELEVATION ABOVE FINISHED FLOOR</li> </ul>	ROOM NAME 101 150 SF OL OLF # Exit A3 #OS RW PANIC	ROOM EXITING INFORMATION         AREA (SQ FT)         OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.1.1)         OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR)         NUMBER OF EXITS REQUIRED (REFER TO TABLE 1015         DOOR EXITING INFORMATION         NUMBER OF OCCUPANTS EXITING THRU DOOR OPEN         REQUIRED EXIT WIDTH (OCCUPANT LOAD X 0.2)         PROVIDED EXIT WIDTH (IN INCHES)
• • •	GRID BUBBLE — GRID NUMBER DOOR CALLOUT — DOOR NUMBER	W1999 U WD HT DP	<ul> <li>PANIC EXIT HARDEWARE (WHERE OCCURS)</li> <li>WIC CASEWORK TAG</li> <li>MANUFACTURER REFERNCE AND MODEL NUMBER</li> <li>CABINET WIDTH</li> <li>CABINET HEIGHT</li> <li>CABINET DEPTH</li> </ul>
	<ul> <li>WINDOW CALLOUT</li> <li>WINDOW NUMBER (SEE WINDOW SCHEDULE A9.12 - A9.13)</li> <li>INTERIOR FINISH CALLOUT</li> <li>MATERIAL FINISH TYPE</li> </ul>		
<b>REVIATION</b>	NS BTWN BETWEEN	DIM DIMENSION	FE FIRE EXTING

Ø	DIAMETER OR ROUND	BTWN	BETWEEN	DIM	DIMENSION	FE	FIRE EX
+/-	PLUS/MINUS	С	CHANNEL	DL	DOOR LOUVER	FEC	FIRE EX
#	POUND OR NUMBER	CER	CERAMIC	DN	DOWN	FF	FINISH F
%	PERCENT	CF	CUBIC FEET	DP	DISABLED PERSON ACCESSIBLE	FG	FINISH G
@	AT	CFCI	CONTRACTOR FURNISHED,	DS	DOWNSPOUT	FH	FIRE HY
õ	DEGREE		CONTRACTOR INSTALLED	DWG	DRAWING	FHC	FIRE HO
0	CENTER LINE	CFOI	CONTRACTOR FURNISHED,	EA	EACH	FHWS	FLAT HE
Z	ANGLE		OWNER INSTALLED	EJ	EXPANSION JOINT	FL	FLOOR
•	PROPERTY LINE	CJ	CONTROL JOINT	ELEV	ELEVATION	FO	FACE OF
AB	ANCHOR BOLT	CLG	CEILING	ELEC	ELECTRICAL	FOC	FACE OF
ABS	ABSOLUTE	CLR	CLEAR	EMT	ELECTRICAL METAL TUBING	FOF	FACE OF
AC	ASPHALTIC CONCRETE	CMU	CONCRETE MASONRY UNIT	ENCL	ENCLOSURE	FOM	FACE OF
ACC	ACCESSIBLE WORK STATION	CONC	CONCRETE	ENGR	ENGINEER	FOS	FACE OF
ACOUS	ACOUSTICAL	CONT	CONTINUOUS	EOS	EDGE OF SLAB	FS	FINISH S
ADJ	ADJACENT	CORR	CORRIDOR	EQ	EQUAL	FT	FOOT O
AFF	ABOVE FINISH FLOOR	CR	CLASSROOM	EQPT	EQUIPMENT	FTG	FOOTING
ALUM	ALUMINIUM	CTSK	COUNTER SUNK	EW	EACH WAY	GA	GAUGE
ANSI	AMERICAN NATIONAL STANDARDS	CTC	CENTER TO CENTER	(E)	EXISTING	GALV	GALVAN
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ARCH	ARCHITECTURAL	DBL	DOUBLE	EXT	EXTERIOR	GFRC	GLASS F
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BLK	BLOCK	DF	DRINKING FOUNTAIN	FDC	FIRE DEPARTMENT CONNECTION	HDWE	HARDW
BLKG	BLOCKING	DIA	DIAMETER	FDN	FOUNDATION		

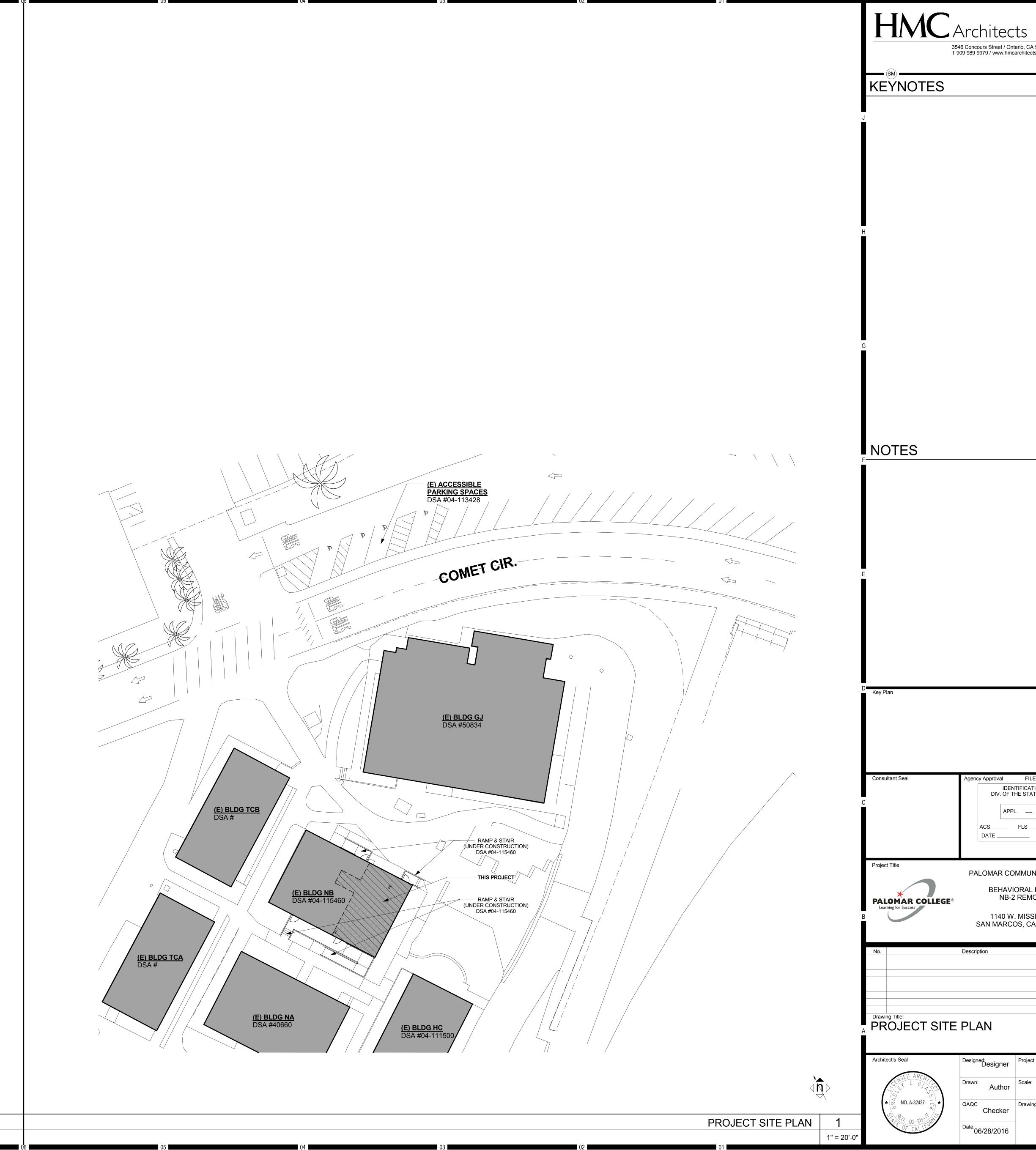


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				PROJECT TEA	
					MAR COLLEGE
				SAN N PHO	MARCOS, CA 92069 NE (780) 744-1150
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		SHEET INDEX		HMC 3546 C	ARCHITECTS ONCOURS STREET
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		A1.0 CAMPUS PLAN A1.1 PROJECT SITE PLAN	TED		
		CEILING PLAN A2.1 FIRST FLOOR - REMODEL PLAN & REFLEC CEILING PLAN A10.10 DETAILS		MA	ENGINEERS
		A10.13 DETAILS - TYPICAL METAL STUD M-2.1 MECHANICAL GENERAL NOTES, LEGEND	AND FLOOR PLAN	SUITE 200 PHOI	, SAN DIEGO, CA 82121 NE (800)-200-0030
		E1.1OVERALL SITE PLANE1.1.1PARTIAL SITE PLANE1.2FLOOR PLAN - POWER & COMMUNICATIO			
		E1.4 DEMOLITION FLOOR PLAN E1.5 FA RISER AND CALCS		J	OHNSON
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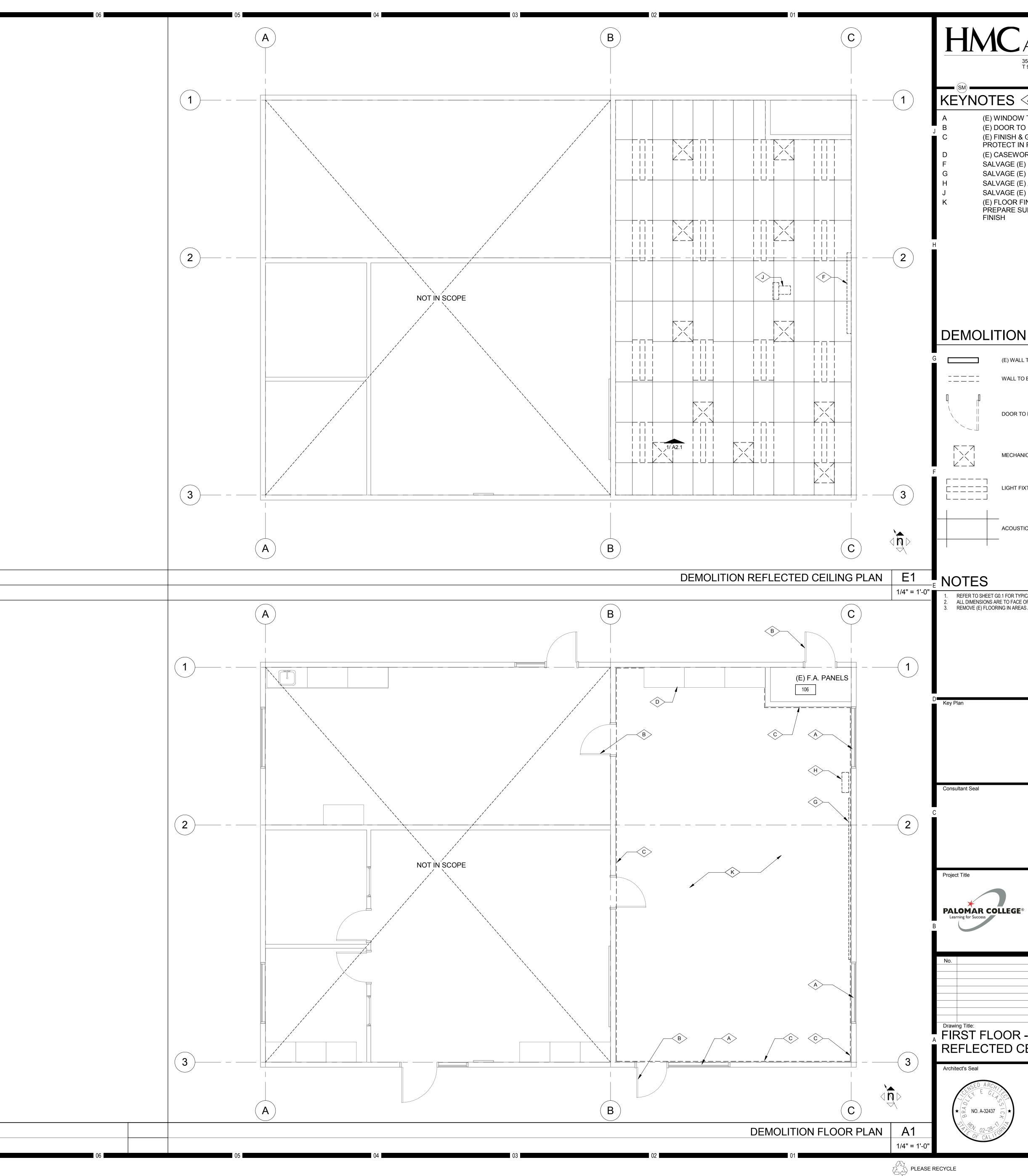
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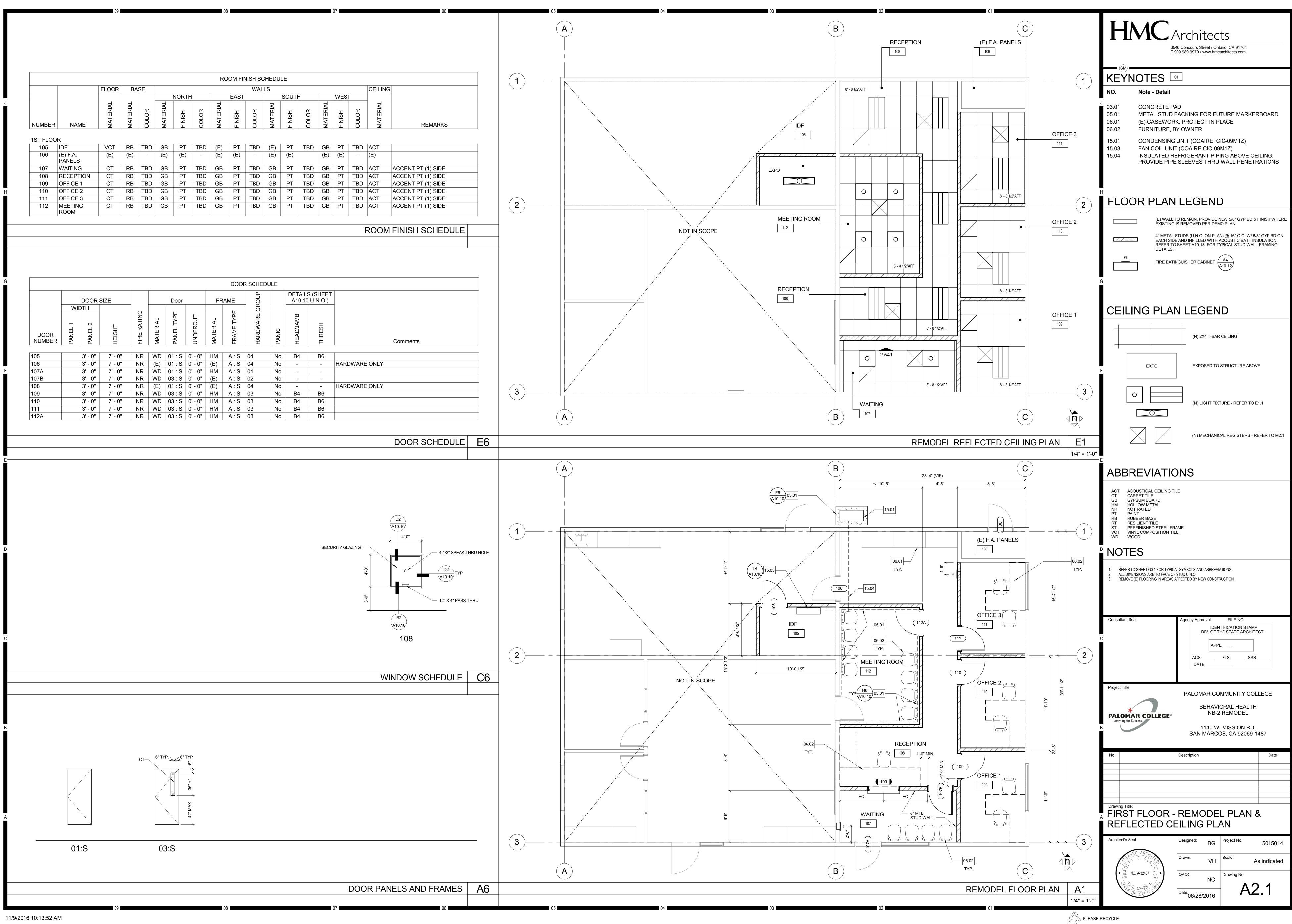
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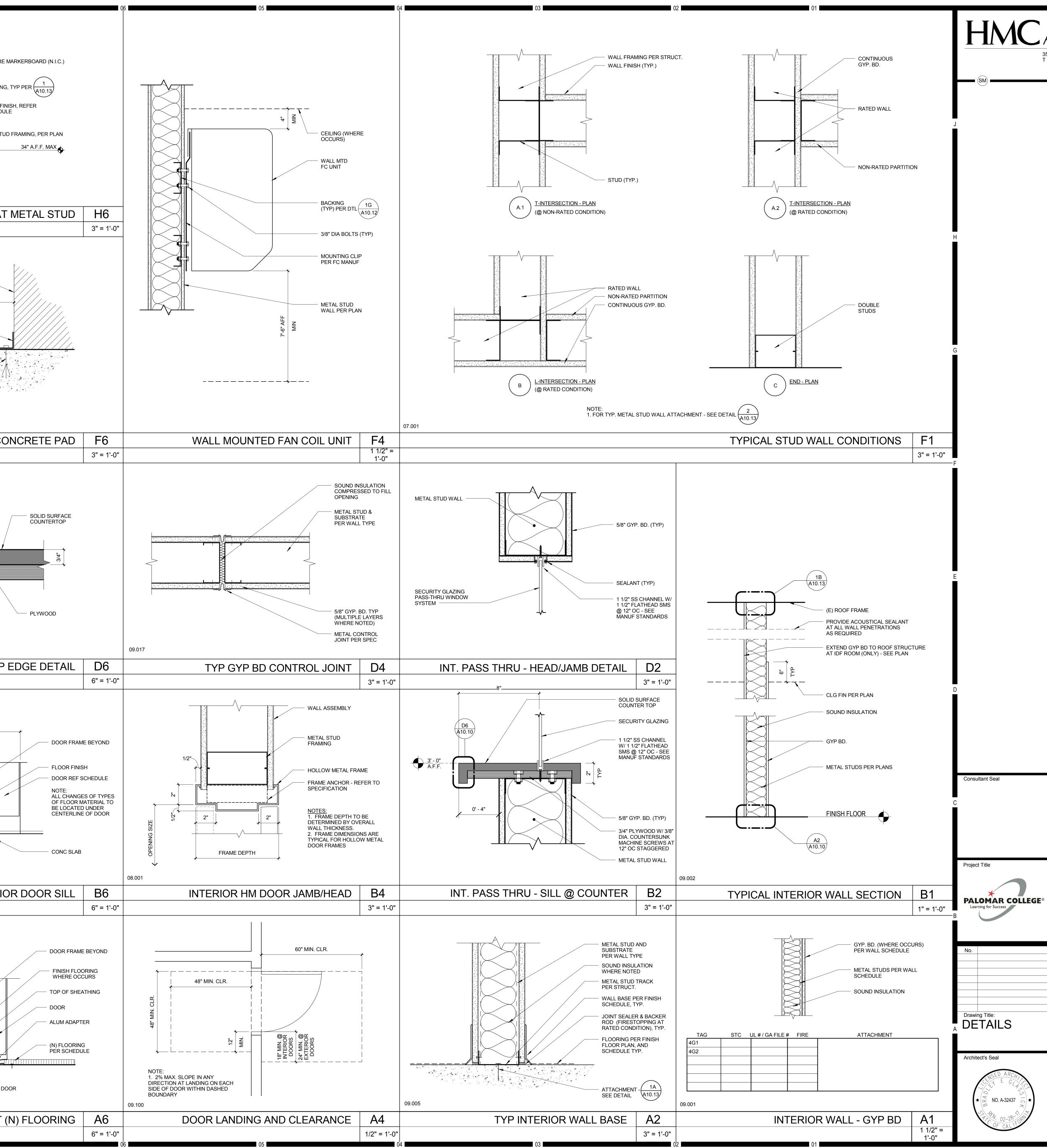
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109		3' - 0"	7' - 0"	NR	WD	03 : S	0' - 0"	HM	A : S	03	No	B4	B6	
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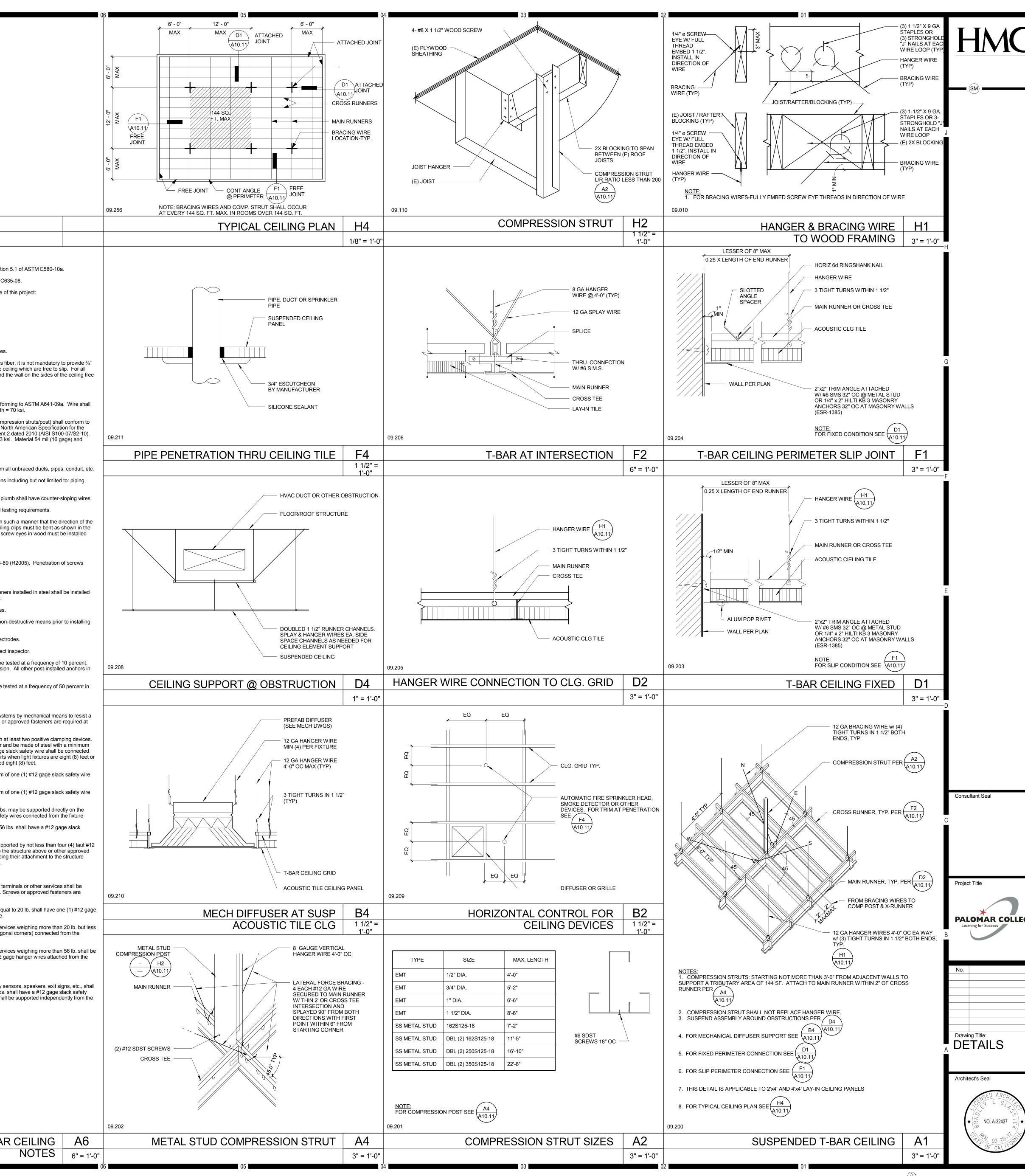
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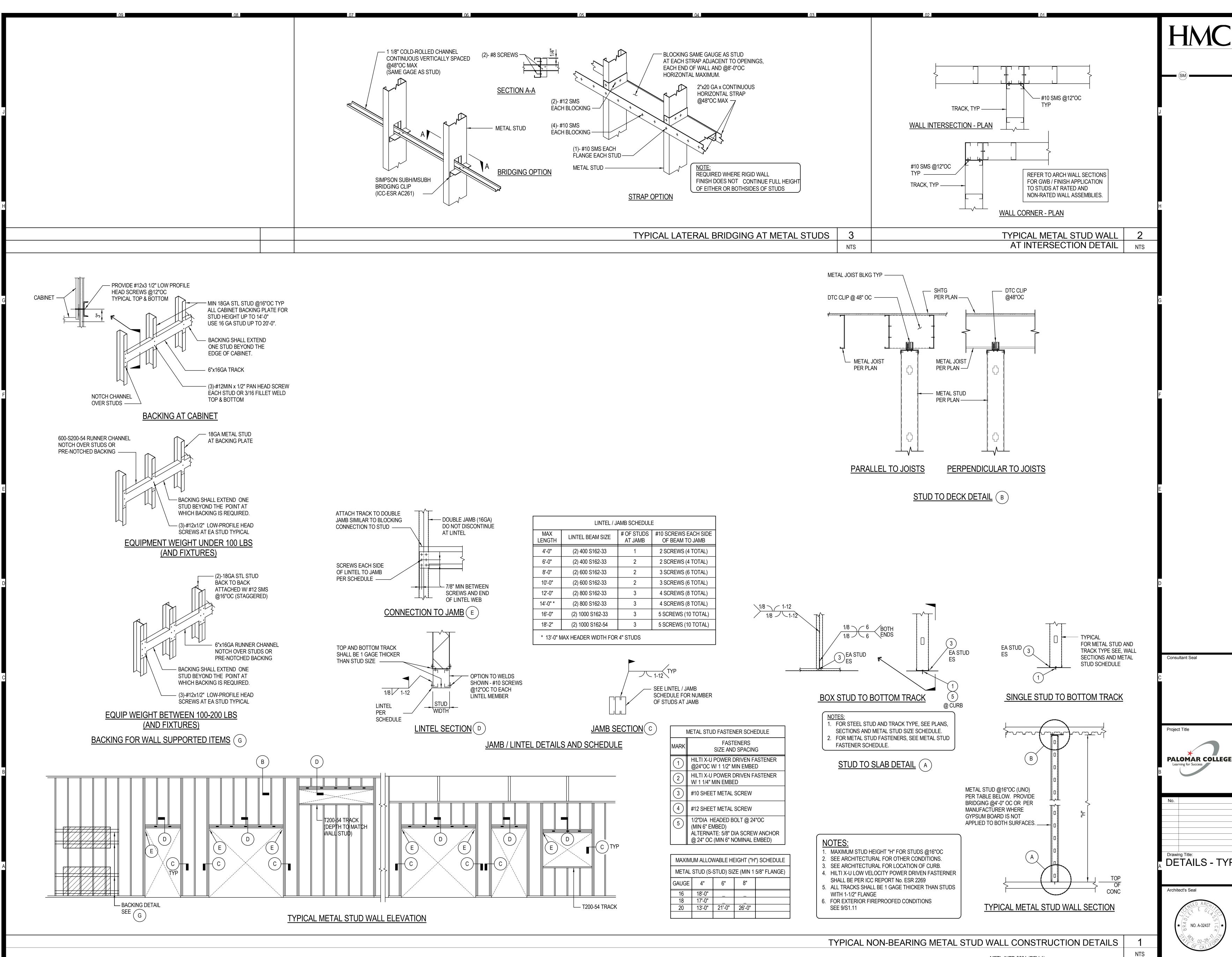
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	1. CELLING SYSTEM GENERAL NOTES:     1.01 Colling system components shall comply with ASTM C335-07 and Section     1.02 The celling grid system must be rated heavy duty as defined by ASTM C     1.03 Celling systems. The following celling system(s) is/are part of the scoper     Manufacturer's Noted Muntber man number FCC-ES, ESR-1099     Manufacturer's Noted BERC2     1.05 Celling panels shall not support any light flutures, air terminals or device     1.05 Celling panels shall not support any light flutures, air terminals or device     1.05 Celling panels shall not support any light flutures, air terminals or device     1.05 Celling panels shall not support any light flutures, air terminals or device     1.05 Celling panels shall not support any light flutures, air terminals or device     1.05 Celling panel bypes, provide %' clearance between the celling panel and     10 bip.     2. MATERIALS:     2.01 Celling wire shall be Class 1 zinc coated (galvanized) carbon shell confor     beight of Coll - Commod Steel Structure In the action of the solds of the colling panel west shall chard three the sold of the sold of the colling panel bypes, provide %' clearance between the celling panel and     10 big.     2. Calvanized best steel (citcuring that used for meals structure flutures)     2. Calvanized and brace the sold based the sold based to sold based the sold based to sold based the sold based the sold based to sold based the sold based to sold based to sold based the sold based to sold based the sold based to sold basold based to sold based to sold based to sold based to sold based
	09.250 SUSPENDED ACOUSTICAL T-BA



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		NOTES: 1. LOCATE PER DETAILA1 / A10.12 2. TO BE POSTED WHERE FIRE ALARM CONTROL PANEL IS LOCATED PER PLAN	NOTES:       6"         1. LOCATE PER DETAIL A1 / A10.12       EXIT         2. BRAILE B1 / A10.12       50	HMC Architects 3546 Concours Street / Ontario, CA 91764 T 909 989 9979 / www.hmcarchitects.com
		RED       12"         SIZE:       AS SHOWN WITH 5/8" HIGH TEXT         MATERAILS:       1/8" THICK ETCHED PHOTOPOLYMER         GRAPHICS:       FIRE ALARM         RAISED (MIN 1/32") TEXT.         MOUNTING:         SIGN TO BE MOUNTED 60° FROM THE FINISHED         FLOOR TO THE VERTICAL CENTER OF THE SIGN,         AT DESIRED LOCATIONS. SIGN MOUNTED WITH         3M HIGH BOND TAPE AND SILICON GLUE.	SIZE: AS SHOWN WITH 1" HIGH TEXT <u>MATERIALS:</u> 1/8" THICK ETCHED PHOTOPOLYMER <u>GRAPHICS:</u> RAISED(MIN 1/32") TEXT WITH CORRESPONDING GRADE 2 BRAILLE PER B1 / A10.12 <u>MOUNTING:</u> SIGN TO BE MOUNTED 60" FROM THE FINISHED FLOOR TO THE VERTICAL CENTER OF THE SIGN, SIGN TO BE NO CLOSER THAN 4" AND NO FARTHER THAN 12" AWAY FROM THE LATCH SIDE OF THE DOOR. SIGN MOUNTED WITH 3M BOND TAPE AND SILICON GLUE <u>COLORS:</u> PLATE BACKGROUND COLOR:	(SM)
		10.029 FIRE ALARM SIGNAGE H2	BRUSHED ALUMINUM ANODIZED         TEXT COLOR:         BLACK         10.019         TACTILE EXIT SIGNAGE H1	
		1 1/2" = 1'-0"	3" = 1'-0"	н
		NOTES: 1. FOR SYSTEM LOCATION, SEE ELECTRICAL DRAWINGS AND SPECS. 21". ASSISTIVE LISTENING SYSTEM AVAILABLE AT ADMINISTRATION OFFICE PRIOR ARRANGEMENTS MUST BE MADE FOR EVENTS AFTER NORMAL BUSINESS HOURS 1/8" THICK ETCHED PHOTOPOLYMER GRAPHICS: RAISED(MIN 1/32") TEXT	MAXIMUM OCCUPANCY SIZE: AS SHOWN WITH 5/8" HIGH TEXT <u>MATERIALS:</u> 1/8" THICK ETCHED PHOTOPOLYMER <u>GRAPHICS:</u> RAISED(MIN 1/32") TEXT <u>MOUNTING:</u> SIGN TO BE MOUNTED 60" FROM THE FINISHED FLOOR TO THE VERTICAL CENTER OF THE SIGN, AT DESIRED LOCATIONS. SIGN MOUNTED WITH 3M BOND TAPE AND SILICON GLUE <u>COLORS:</u> PLATE BACKGROUND COLOR: BRUSHED ALUMINUM ANODIZED TEXT COLOR: BLACK	G
		MOUNTING:         SIGN TO BE MOUNTED 60" FROM THE         FINISHED FLOOR TO THE VERTICAL CENTER         OF THE SIGN, AT DESIRED LOCATIONS. SIGN         MOUNTED WITH 3M BOND TAPE AND SILICON         GLUE         COLORS:         PLATE BACKGROUND COLOR:         BRUSHED ALUMINUM ANODIZED         TEXT COLOR:         BLACK         10.013	10.014 OCCUPANT LOAD SIGN F1	
		1/8" = 1'-0"	1 1/2" = 1'-0"	-F
		Image: Stress of the second stress of the	<ul> <li>CHARACTER WIDTH TO HEIGHT PROPORTION TEMPLATE</li> <li>2/10" SPACE BETWEEN CELLS (LETTERS)</li> <li>CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.</li> <li>BRAILLE SPACING TEMPLATE</li> </ul>	E
		6". 6". 6". 6". 6". 6". 6". 6".	<ol> <li>CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE 5 BELOW).</li> <li>CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HIGH, BASED ON THE LETTER "I". REFER TO CBC 11B-703.5.5</li> </ol>	
		10.003	3. FINISH AND CONTRAST: CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND <b>11B-703.5.1</b>	
		ACCESSIBILITY SIGN D2	4. PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE "I". <b>11B-703.5.4</b>	
		NOTES: 1. PROVIDE ONE SIGN WHERE INDICATED ON SCHEDULE AND FLOOR PLANS. ALL SIGNED DOORS TO RECEIVE BRAILLE ROOM IDENTIFICATION PER B1 / A10.12 2. WHERE SIGNAGE IS INSTALLED ON GLASS PROVIDE BLANK SIGNAGE ON OPPOSITE SIDE BEING FOUND	5. BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.54 mm) ON CENTERS IN EACH CELL WITH 2/10 INCH (5.08 mm) SPACE BETWEEN CELLS, MEASURED M THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 mm) ABOVE THE BACKGROUND. (SEE 10.005B FOR TEMPLATES)	D
		SIZE: AS SHOWN WITH 5/8" HIGH TEXT <u>MATERIALS:</u> ALUMINUM EXTRUSION, PHOTOPOLYMER INSERT <u>GRAPHICS:</u> RAISED (MIN 1/32") TEXT. ROOM NUMBER TO HAVE CORRESONDING GRADE 2 BRAILLE. PER B1 / A10.12 <u>MOUNTING:</u> SIGN MOUNTED WITH 3M HIGH BOND AND SILICON GLUE. ACCESSIBILITY SIGN PER DETAIL D2 / A10.12 (WHERE OCCURS,	BRAILLE CELL DOT INTER CELL SPACING = .20"	Consultant Seal Agency Approval FILE NO. IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT C APPL
		(SEE DOOR SCHEDULE)	ROUNDED DOT (ACCEPTIBLE) INTER CELL SPACING WITHIN A CELL=.10" (VERTICAL OR HORIZONTAL) RECOMMEND ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPERATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.	ACS FLS SSS DATE Project Title
		TACITLE ROOM IDENTIFICATION B2	10.001	PALOMAR COMMUNITY COLLEGE BEHAVIORAL HEALTH
		1/8" = 1'-0"	CHARACTER & BRAILLE STANDARDS FORB1SIGNAGE PER TITLE 243" = 1'-0"	B NB-2 REMODEL NB-2 REMODEL 1140 W. MISSION RD.
	PROVIDE TYPE "X" GYP. BD. AROUND CABINET AT 1-HR WALL SEMI-RECESSED FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER	NOTES: 1. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONCE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. TACTILE CHARACTERS HEIGHT SHALL BE 48" MIN. ABOVE THE FINISH FLOOR TO THE BASELINE OF THE LOWEST TACTILE BRAILLE CELLS, AND HIGHEST LINE OF RAISED CHARACTERS SHALL BE 60" MAX. ABOVE THE FINISH FLOOR. FOR PAIRS OF DOORS WHERE DOOR SWING IS LIMITED TO 90 DEGREE MOUNT SIGN 9" FROM EDGE OF DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING EXCEEDS 90 DEGREES MOUNT SIGN DOOR WIDTH PLUS 9" FROM EDGE OF DOOR. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS	CENTERED ON TACTILE CHAR.	No.     Description     Date
	WALL FINISH BLOCKING	PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. REFER TO CBC 11B-703.4.2. 2. RESTROOM GEOMETRIC SIGNS SHALL BE INSTALLED CENTERED ON THE DOOR. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. THE COLOR AND CONTRAST OF THE SIGN SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.	ACCESSIBLE ROOM SIGN Po. WY. Po. WY.	Architect's Seal           Designed:         Project No.         5015014           Image: Designer         Drawn:         Author         Scale:
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	FIRE EXTINGUISHER A4		DOOR SIGNAGE LOCATIONS         A1           1/4" = 1'-0"         1/4" = 1'-0"	Date: 06/28/2016 A10.12
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# **GENERAL NOTES:**

- THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
- . COMPLY WITH CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AND GOVERNING CODES. THERE SHALL BE NO EXCEPTION. REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
- REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.
- 4. PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR MECHANICAL EQUIPMENT AND COMPONENTS AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND APPLICABLE CODES.
- 5. HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- 6. INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
- BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE WITH SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.
- 8. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.
- 9. ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- 10. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-223, AND UL 723.
- 11. INSULATE PIPING AND DUCTWORK IN ACCORDANCE WITH THE GOVERNING CODES.
- 12. START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.
- 13. ALL SQUARE ELBOWS IN DUCTWORK SHALL HAVE DOUBLE THICKNESS TURNING VANES. ALL RADIUS ELBOWS IN DUCTWORK SHALL BE MINIMUM 1.5W (1.5xWIDTH) AND HAVE 3 SPLITTER VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE WITH SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.
- 14. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.

# PLAN CHECK NOTES:

PROJECT.

CALIFORNIA MECHANICAL CODE 2013 (CMC 2013), CALIFORNIA PLUMBING CODE 2013 (CPC 2013) AND 2013 TITLE 24 ENERGY STANDARDS ARE THE CURRENT CODES/STANDARDS THAT ARE APPLICABLE TO THIS

# PROJECT NOTES

- CONTRACTOR SHALL COORDINATE ARCHITECTURAL REFLECTED CEILINGS PLANS WITH ALL DISCIPLINES TO VERIFY CLEARANCES BETWEEN HVAC DUCTS, HVAC PIPING, LIGHT FIXTURES, ELECTRICAL DATA CONDUITS, PLUMBING LINES, FIRE PROTECTION LINES, STRUCTURAL MEMBERS, ETC. SPECIAL ATTENTION IS REQUIRED ALONG THE LENGTH OF MAIN MECHANICAL SUPPLY AND RETURN AIR DUCTS WHERE THERE IS LIMITED CLEARANCE FOR PASSAGE OR ROUTING OF UTILITIES.
- THE SPACE FOR DUCT WORK & MECHANICAL EQUIPMENT FOR THIS PROJECT IS LIMITED. COORDINATION WITH OTHER TRADES IS CRITICAL. PROCEED WITH PREPARATION OF SHOP DRAWINGS IMMEDIATELY UPON RECEIVING AN AUTHORIZATION TO PROCEED FOR THE PROJECT. COMPLETE SHOP DRAWINGS PRIOR TO MATERIAL FABRICATION AND INSTALLATION. SHOP DRAWINGS SHALL BE REVIEWED BY COMMISSIONING AGENT PRIOR TO SUBMITTAL.
- DO NOT COMMENCE WITH ANY INSTALLATION, DEMOLITION OR ORDERING OF ANY EQUIPMENT OR MATERIAL FABRICATION WITHOUT AN APPROVED SHOP DRAWING SUBMITTAL.
- FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER. ANY DISCREPANCIES/EXCEPTIONS NOT IDENTIFIED IN WRITING SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR

AND AT NO EXPENSE TO THE OWNER AND ENGINEER.

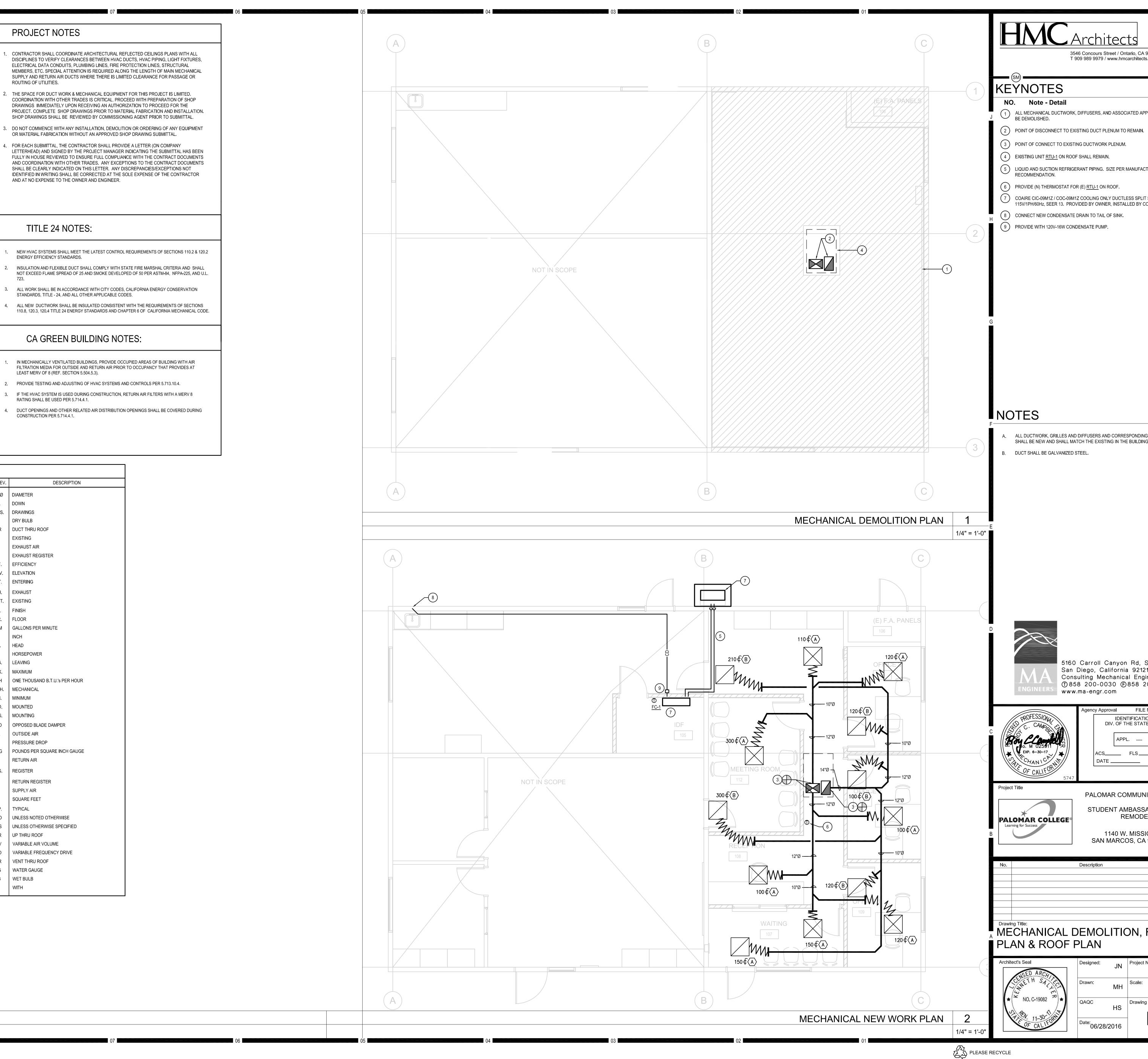
## TITLE 24 NOTES:

- NEW HVAC SYSTEMS SHALL MEET THE LATEST CONTROL REQUIREMENTS OF SECTIONS 110.2 & 120.2 ENERGY EFFICIENCY STANDARDS.
- INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHAL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-225, AND U.L.
- STANDARDS, TITLE 24, AND ALL OTHER APPLICABLE CODES.
- 4. ALL NEW DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 110.8, 120.3, 120.4 TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CALIFORNIA MECHANICAL CODE.

# CA GREEN BUILDING NOTES:

- IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE OCCUPIED AREAS OF BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT
- LEAST MERV OF 8 (REF. SECTION 5.504.5.3). PROVIDE TESTING AND ADJUSTING OF HVAC SYSTEMS AND CONTROLS PER 5.713.10.4.
- IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, RETURN AIR FILTERS WITH A MERV 8 RATING SHALL BE USED PER 5.714.4.1.
- DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION OPENINGS SHALL BE COVERED DURING CONSTRUCTION PER 5.714.4.1.

MECHANICAL LEGEND						
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION	
ZZ 444.		REMOVE EXISTING EQUIPMENT OR PIPING		DIA. Ø	DIAMETER	
<u>V,2,4,</u> /////.		SHOWN HATCHED		DN.	DOWN	
<u>77</u> 7 ++++		REMOVE AND RELOCATE EXISTING EQUIPMENT OR PIPING SHOWN HATCHED		DWGS.	DRAWINGS	
$\oplus$	POC	POINT OF CONNECTION		DB	DRY BULB	
	POD	POINT OF DISCONNECT		DTR	DUCT THRU ROOF	
Ē		COORDINATE WITH ELECTRICAL		(E)	EXISTING	
		DUCTWORK (1ST NUMBER INDICATES WIDTH SHOWN),		EA	EXHAUST AIR	
		NET INSIDE DIMENSION		ER	EXHAUST REGISTER	
	TV	SQUARE ELBOW WITH TURNING VANES		EFF.	EFFICIENCY	
		RADIUS ELBOW WITH 3 SPLITTER VANES		ELEV.	ELEVATION	
	MVD	MANUAL VOLUME DAMPER		ENT.	ENTERING	
	MOD	MOTOR OPERATED DAMPER		EXH.	   EXHAUST	
	BDD	BACKDRAFT DAMPER		EXIST.	EXISTING	
	SD	DUCT MOUNTED SMOKE DETECTOR				
	FLEX	FLEXIBLE CONNECTION (DUCTWORK)		FIN.	FINISH	
				FLR.		
				GPM	GALLONS PER MINUTE	
				IN.	INCH	
		DUCT DROP IN DIRECTION OF FLOW		HD.	HEAD	
				HP	HORSEPOWER	
				LVG.	LEAVING	
		SUPPLY DUCT UP		MAX.	MAXIMUM	
		SUPPLY DUCT DOWN		MBH	ONE THOUSAND B.T.U.'S PER HOUR	
	RA/OA	RETURN AIR DUCT/OUTSIDE AIR DUCT UP		MECH.	MECHANICAL	
		RETURN AIR DUCT/OUTSIDE AIR DUCT DOWN		MIN.	MINIMUM	
		EXHAUST AIR DUCT UP		MTD.	MOUNTED	
		EXHAUST AIR DUCT DOWN		MTG.	MOUNTING	
		DUCT TRANSITION		OBD	OPPOSED BLADE DAMPER	
$\boxtimes$	CD	CEILING DIFFUSER		OA	OUTSIDE AIR	
	RR	RETURN REGISTER		PD	PRESSURE DROP	
$\bowtie$	ER	EXHAUST REGISTER		PSIG	POUNDS PER SQUARE INCH GAUGE	
<u> () AC-3</u>	T'STAT	THERMOSTAT OR TEMPERATURE SENSOR (NUMBER INDICATES EQUIPMENT ZONE SERVED)		RA REG.	RETURN AIR REGISTER	
¢	CFM	CUBIC FEET PER MINUTE				
		SYMBOL, SEE EQUIPMENT SCHEDULE		RR	RETURN REGISTER	
_	AD/AP	ACCESS DOOR / ACCESS PANEL		SA	SUPPLY AIR	
	AFF	ABOVE FINISHED FLOOR		SF	SQUARE FEET	
	BDD	BACK DRAFT DAMPER		TYP.	TYPICAL	
	BOD	BOTTOM OF DUCT		UNO	UNLESS NOTED OTHERWISE	
	BOP	BOTTOM OF PIPE (ABOVE FIN. FLR.)		UOS	UNLESS OTHERWISE SPECIFIED	
	CD	CEILING DIFFUSER		UTR	UP THRU ROOF	
	CLG.	CEILING		VAV	VARIABLE AIR VOLUME	
	CFM	CUBIC FEET PER MINUTE		VFD	VARIABLE FREQUENCY DRIVE	
	CONC.	CONCRETE		VTR	VENT THRU ROOF	
	CONT.	CONTINUATION		WG	WATER GAUGE	
	°F	DEGREES FAHRENHEIT		WB	WET BULB	
	1					



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ALL MECHANICAL DUCTWORK, DIFFUSERS, AND ASSOCIATED APPURTENANCES SHALL

(2) POINT OF DISCONNECT TO EXISTING DUCT PLENUM TO REMAIN.

5 LIQUID AND SUCTION REFRIGERANT PIPING. SIZE PER MANUFACTURERS

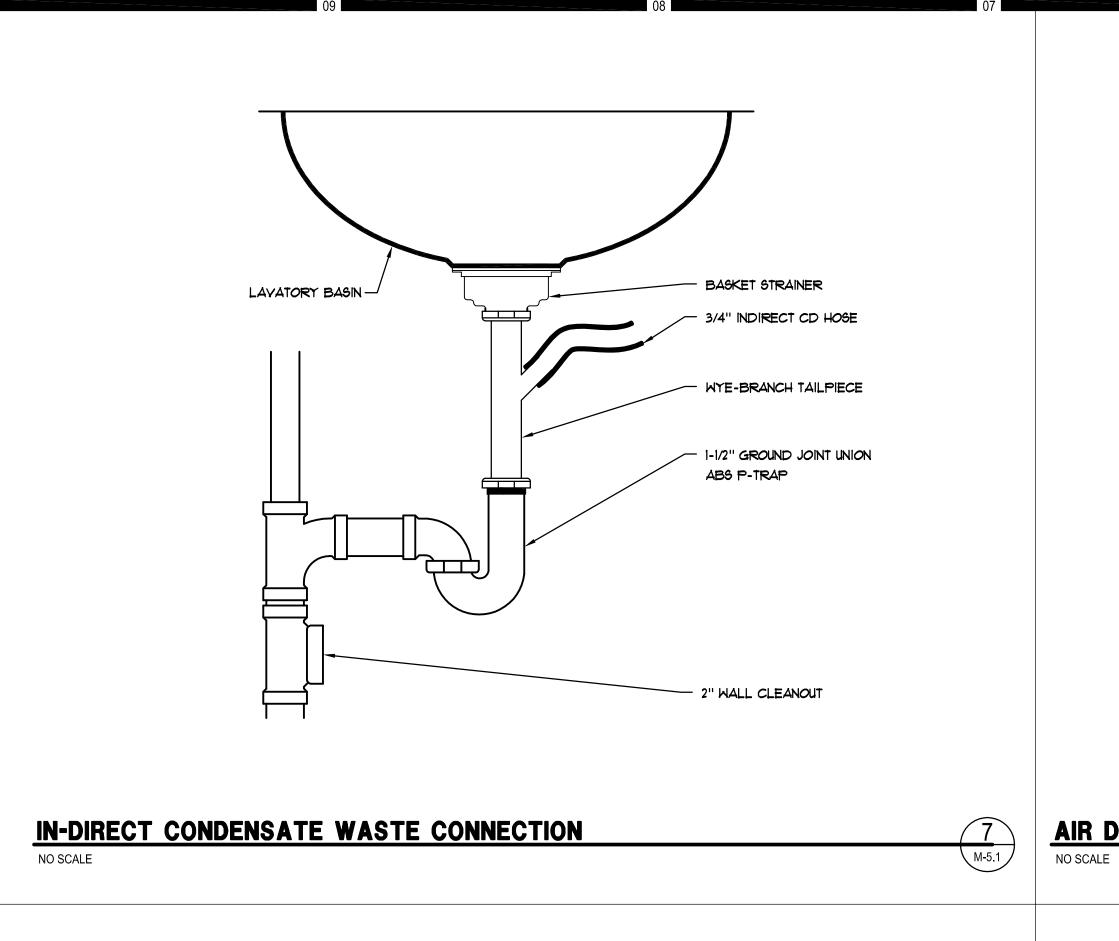
(7) COAIRE CIC-09M1Z / COC-09M1Z COOLING ONLY DUCTLESS SPLIT SYSTEM. 9000 BTUH, 115V/1PH/60Hz, SEER 13. PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.

(8) CONNECT NEW CONDENSATE DRAIN TO TAIL OF SINK.

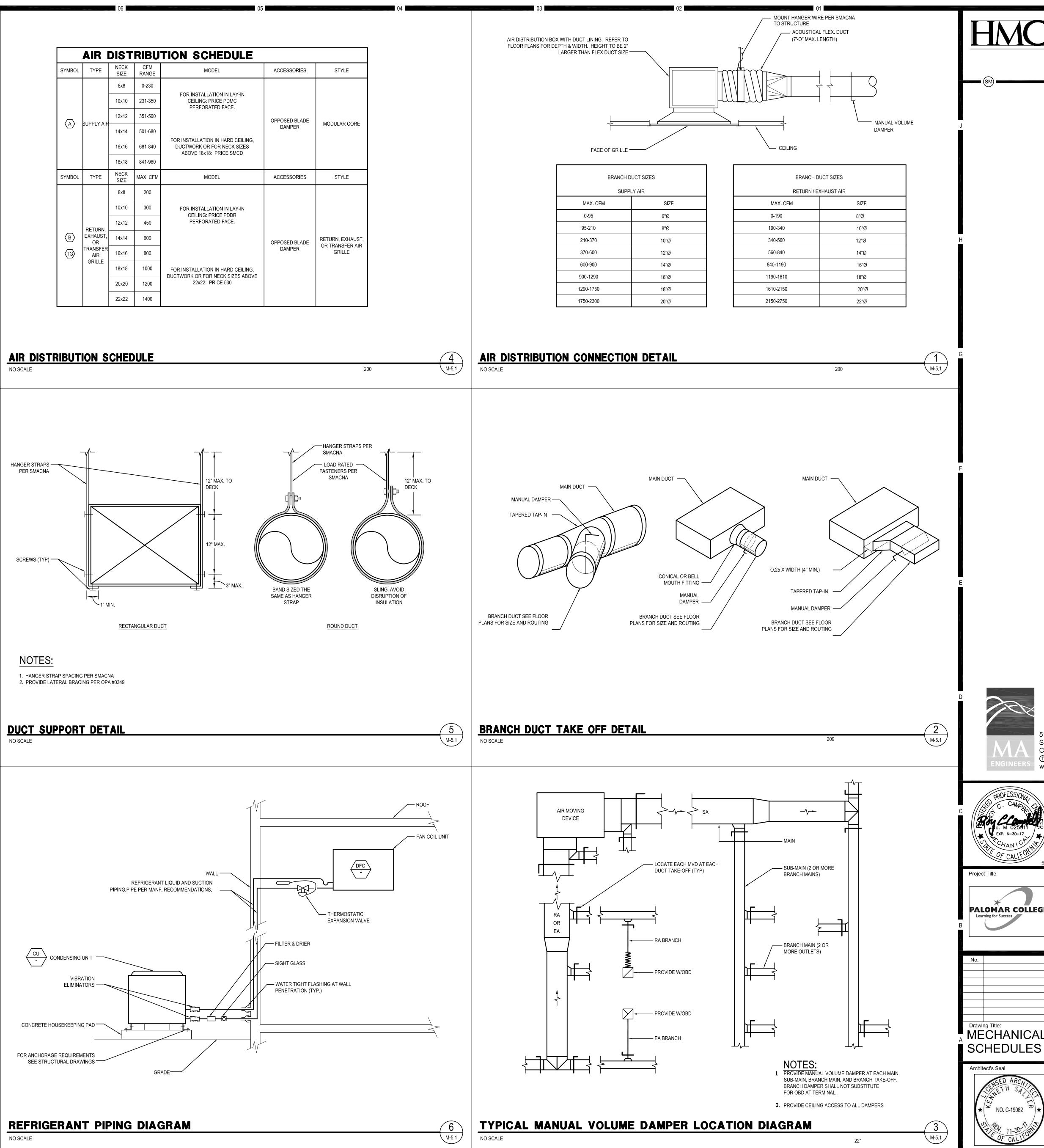
ALL DUCTWORK, GRILLES AND DIFFUSERS AND CORRESPONDING APPURTENANCES SHALL BE NEW AND SHALL MATCH THE EXISTING IN THE BUILDING.

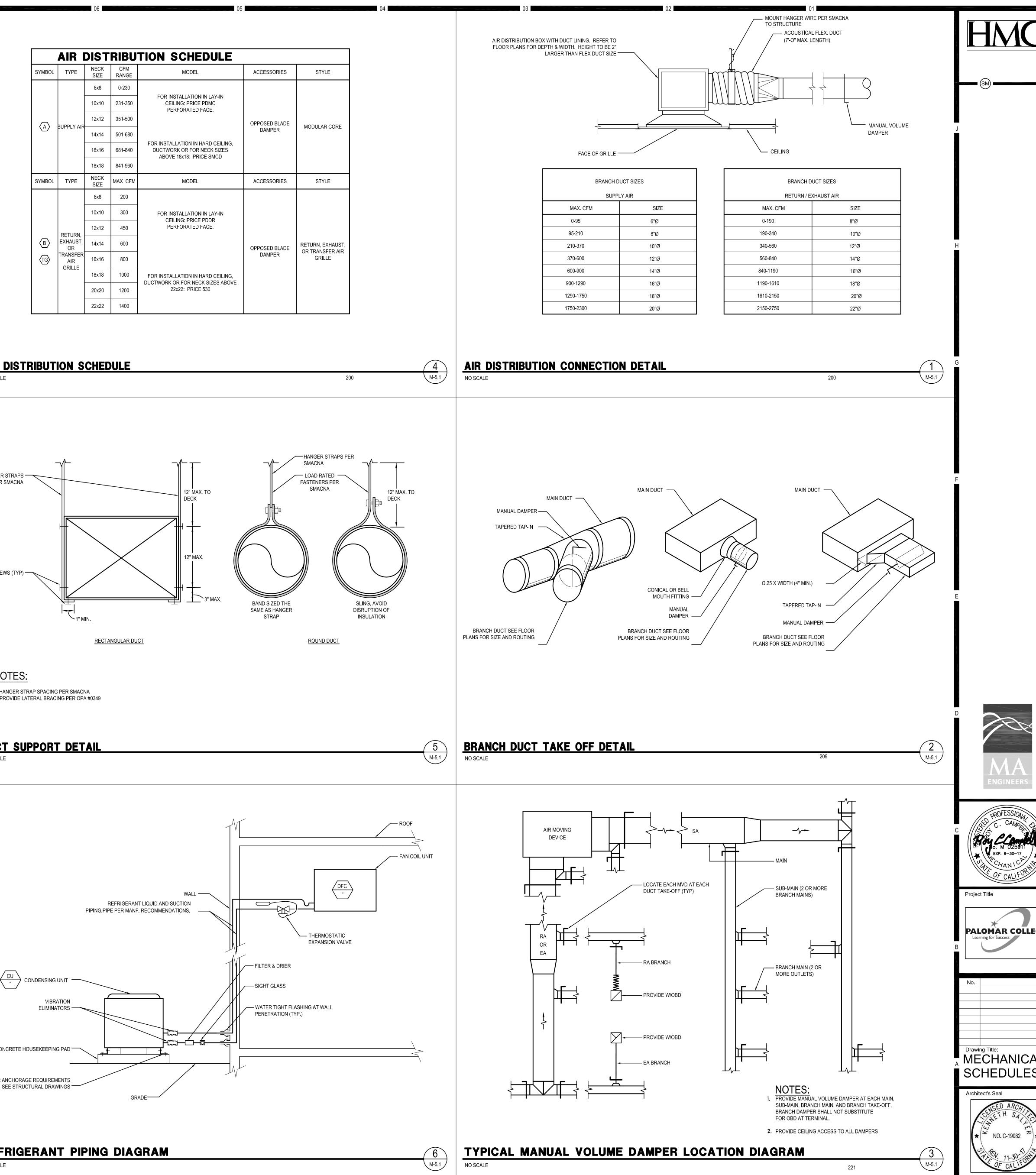
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	AIR I	DIST	RIBU	TION SCHEDULE		
SYMBOL	TYPE	NECK SIZE	CFM RANGE	MODEL	ACCESSORIES	STYLE
		8x8	0-230			
		10x10	231-350	FOR INSTALLATION IN LAY-IN CEILING: PRICE PDMC PERFORATED FACE.		
	SUPPLY AIR	12x12	351-500	TER ORVIEDTAGE.	OPPOSED BLADE	
$\langle A \rangle$		14x14	501-680		DAMPER	MODULAR CORE
	16x16 681-840	681-840	FOR INSTALLATION IN HARD CEILING, DUCTWORK OR FOR NECK SIZES ABOVE 18x18: PRICE SMCD			
		18x18	841-960			
SYMBOL	TYPE	NECK SIZE	MAX CFM	MODEL	ACCESSORIES	STYLE
		8x8	200			
		10x10	300	FOR INSTALLATION IN LAY-IN		
	RETURN,	12x12	450	CEILING: PRICE PDDR PERFORATED FACE.		
B	EXHAUST, OR	14x14	600		OPPOSED BLADE	RETURN, EXHAUST, OR TRANSFER AIR
TG TRANSFER AIR GRILLE	16x16	800		DAMPER	GRILLE	
	18x18	1000	FOR INSTALLATION IN HARD CEILING,			
		20x20	1200	DUCTWORK OR FOR NECK SIZES ABOVE 22x22: PRICE 530		
	22x22 1400					







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	Date: 06/28/2016	M-4	5.1

POWE	R R R R R R R R R R R R R R R R R R R	<u> </u>	ENE
<del>e</del>	DUPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.)	1.	AL AN
<del>,</del> WP	DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE +18" A.F.F. (U.O.N.)		IN 2Ø
Beut	DUPLEX RECEPTACLE, WALL MOUNTED +18'' A.F.F. W/ USB CHARGING PORT. HUBBLE USB20X2 OR EQUAL.		Va la
) (JH	CODE SIZED JUNCTION BOX, CEILING OR WALL MOUNTED		Id
_h	FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED.		
	CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL		
\	CONDUIT AND WIRE, CONCEALED IN OR UNDER FLOOR		
2	FLEXIBLE CONDUIT CONNECTION		۱Ŀ
₩	BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED U.O.N. #12 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #12		10
o	CONDUIT DROP OR TRANSITION.		
	PANELBOARD SURFACE MOUNTED		
	PANELBOARD RECESSED		
	DISTRIBUTION SWITCHBOARD	2.	CL
T	STEPDOWN TRANSFORMER		NE W <del>I</del> At
R-Z	SURFACE RACEWAY, VERTICAL TRANSITION.	3.	A
-9R	SURFACE MOUNTED RACEWAY SINGLE SECTION SERIES, NON METALLIC (WHITE)	4.	Q1 41
3R 2	SURFACE MOUNTED RACEWAY TWO SECTION SERIES, NON METALLIC (WHITE)		UI Mi
SR 3	SURFACE MOUNTED RACEWAY THREE SECTION SERIES, NON METALLIC (WHITE)	5.	UH Of SL
	L14-30 (208v) 4W RECEPTACLE		E٢
$\square$	ENCLOGED CIRCUIT BREAKER	6.	Д Д А1
IGHTING		٦.	A
	$2' \times 4'$ LIGHT FIXTURE		At At IN
	$2' \times 2'$ LIGHT FIXTURE		
Sa	SINGLE POLE SWITCH		
Ĵ3	THREE-WAY SWITCH +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.00		NERA
$\overline{\Delta}$	LIGHTING FIXTURE DESIGNATION	1.	UNLES
_ О	LIGHTING FIXTURE, CEILING OR WALL MOUNTED AS SHOWN.	2.	UNLES
Ю			CENT

E1.3

E1.3

CEILING MOUNTED (CORNER OF THE ROOM) OCCUPANCY SENSOR -

CEILING MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL

S

-19-

LIGHTING CONTROL

## NERAL SEISMIC REQUIREMENTS

ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING: 2001 CBC CHAPTERIG., SECTION 1632A & TABLE 16A-0 OF THE VOL. 2 TITLE 24, 2001 CBC.

- 1a. IN LIEU OF CALCULATIONS PER NOTE 1 (ABOVE) THE ANCHORAGE SHALL BE CAPABLE OF WITHSTANDING A LATERAL FORCE EQUAL TO 2.2 WP ACTING SIMULTANEOUSLY WITH A VERTICAL FORCE \*EQUAL TO Ø.72WP (BOTH FORCES AT SERVICE LEVEL, THESE VALUES CORRESPOND TO AN IP=1.15 AND Ca=0.66, FOR OTHER VALUES OF IP AND Ca, THE LATERAL AND VERTICAL FORCE CAN BE ADJUSTED ACCORDINGLY).
- 16. INCLUSION OF VERTICAL FORCE PER TABLE 16-0 FOOTNOTE 20 (FOR EMERGENCY POWER SUPPLIES & COMMUNICATIONS EQUIPMENT ONLY).
- 16. THE CAPACITY OF THE ANCHORAGE CONNECTORS IN SHEAR AND/OR TENSION SHALL BE CLEARLY INDICATED IN THE CALCULATIONS, WHICH INDICATE, ICBO REPORT NO. (IF APPLICABLE) THEIR TOTAL NUMBER, SIZE, GRADE, EMBEDMENT, EDGE DISTANCES, AND OTHER FACTORS WHICH AFFECT THE CAPACITY IN SHEAR AND TENSION.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA REPRESENTATIVE.
- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/ORS.
- ALL BRACING OF CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA SEISMIC RESTRAINT MANUAL: "GUIDELINES FOR MECHANICAL SYSTEMS", 1991 OR LATEST EDITION. OSHPD R #0010.
- WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, ELECTRICAL ENGINEER AND DSA FIELD ENGINEER.
- A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
- ANCHORAGE DETAILS FOR EQUIPMENT WHICH ARE NOT APPROVED DURING PLAN REVIEW ARE SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION BY THE PROJECT INSPECTOR.

## RAL PROJECT NOTES

ESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE AWINGS SHALL BE CONSIDERED NEW WORK.

### LEGS WHERE OTHERWIGE NOTED, ALL DIMENSIONS ARE TO BE NTERLINE OF THE DEVICE.

5.

8.

3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.

- 4. EXISTING HIGH VOLTAGE AND LOW VOLTAGE ELECTRICAL LINES, WATER LINES, DRAIN LINES AND GAS LINES EXIST UNDER AREAS NOTED FOR NEW UNDERGROUND CONDUITS. THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT PROFESSIONAL UTILITY LOCATING SERVICE, THIS SERVICE SHALL SURVEY ALL AREAS TO BE EXCAVATED TO DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES. WHERE EXISTING UTILITIES ARE FOUND THE CONTRACTOR SHALL HAND DIG THOSE AREAS TO AVOID DISRUPTION.
- WHERE NEW UNDERGROUND CONDUITS ARE INSTALLED, THE CONTRACTOR SHALL POTHOLE AND/OR HAND DIG SECTIONS WHERE THERE ARE SUSPECTED CONFLICTS WITH EXISTING UTILITIES.

### 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS TO EXISTING UNDERGROUND UTILITIES DAMAGED DURING CONSTRUCTION.

7. THE CONTRACTOR SHALL PATCH AND REPAIR EXISTING ASPHALT, CONCRETE AND LANDSCAPED

AREAS REMOVED OR DAMAGED DURING CONSTRUCTION TO MATCH THE EXISTING CONDITIONS.

REFERENCE SHEETS E3.1, E3.2 & E3.3 FOR ALL TYPICAL INSTALLATION DETAILS.

	TECHNOLOGY SYMBOL LEGEND						
SYMBOL	DESCRIPTION	BACKBOX/RING	FACEPLATE	CONDUIT/RACEWAY			
Ŷ	Single Port Data Outlet, +18'' A.F.F. (U.O.N.)	4-11/16" Sq. 2" deep with single gang ring.	Single gang faceplate with two port openings one provided with one blank	Provide 1" conduit stubbed into nearest accessible ceiling space. (U.O.N.)			
	Dual Port Data Outlet, +18" A.F.F. (U.O.N.)	4-11/16" Sq. 2" deep with single gang ring.	Single gang faceplate with two port openings.	Provide I'' conduit stubbed into nearest accessible ceiling space. (U.O.N.)			
Ŷ <sup>3₽</sup>	Triple Port Data Outlet, +18'' AFF. (U.O.N.)	4-11/16" Sq. 2" deep with single gang ring.	Single gang faceplate with four port openings.	Provide I'' conduit stubbed into nearest accessible ceiling space. (U.O.N.)			
Ŷ <sup>4₽</sup>	Quadruple Port Data Outlet, +18'' A.F.F. (U.O.N.)	4-11/16" Sq. 2" deep with single gang ring.	Single gang faceplate with four port openings.	Provide I'' conduit stubbed into nearest accessible ceiling space. (U.O.N.)			
<sup>2₽</sup> ♀ <sup>™</sup>	Local origination with dual port data and single port voice outlet. 18" A.F.F. (U.O.N.)	(2) 4 11/16"sq. 2" deep with single gang ring each. Side by side, (1) for data and (1) for local origination. (Not a two gang box).	(1) Faceplate by 16770 contractor. (1) Faceplate by 16780 contractor.	Provide 1 1/4" conduit from local origination box and 3/4" conduit from data box. Stub into nearest accessible ceiling. (U.O.N.)			
	Single port data outlet at wireless access point mounted in accessible ceiling (U.O.N.)	4 11/16" square 2 1/8" deep box with single gang ring.	As required to accommodate the number of ports designated.	Not required in accessible ceiling.			
Е́Н	Television outlet, +84" AFF. (U.ON.)	4-11/16" sq. 2" deep with double gang ring	Double gang faceplate with 2.15 " I.D. hole.	Provide 1-1/4" conduit stubbed into nearest accessible ceiling (U.O.N.)			
ЭH	J-box for future data +18" AFF. (U.O.N.)	4-11/16" sq. 2" deep with single gang ring.	Single faceplate with two gang port openings with blank inserts. Provided by 16770 contractor.	Provide 1" conduit stubbed into nearest accessible ceiling space (U.O.N.)			
E3	Conduit stubbed above ceiling sleeved through walls			Provide (1) 2" conduit for open wire communications system wiring (U.O.N.)			
Ē	Conduit stubbed above ceiling			3/4" conduit stubbed from device to specific ceiling area.			

	COMMUNIC	ATION / SECURI	TY SYMBOL LEG	END
SYMBOL	DESCRIPTION	BACKBOX/RING	FACEPLATE	CONDUIT/RACEWAY
$\nabla^{w}$	Telephone outlet wall mounted +48'' A.F.F. (U.O.N.)	4" sq. 1-1/2" deep with single gang ring	Single gang, as required by (16740) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.O.N.)
6	Recessed ceiling intercom speaker	Custom backbox provided by 16740 contractor, installed by electrical contractor	Provided by (16740) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.O.N.)
6 <b>)</b>	Surface wall interior intercom speaker +8'-0'' (U.O.N.)	4" sq. 1-1/2" deep with single gang ring	Provided by (16740) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.O.N.)
₽€Ӈ	Recessed wall exterior intercom speaker +8'-0'' (U.O.N.)	4" sq. 1-1/2" deep with single gang ring	Provided by (16740) contractor	Provide 3/4" conduit stubbed Into nearest accessible Ceiling space. (u.O.N.)
Ф	Clock wall mounted +84" A.F.F.	Not required	Not required	Not required
	Security sensor ceiling mounted	Ceiling backbox with single Gang ring.	Provided by (16730) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiiling space. (U.O.N.)
KH	Security sensor wall mounted 6" below ceiling or +10'-0" which ever is lower	4" sq. 1-1/2" deep with single gang Ring.	Provided by (16730) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiiling space. (U.O.N.)
١	Security door contact	4" sq. 1-1/2" deep with single gang ring	Provided by (16730) contractor	Provide 3/4" conduit stubbed into nearest accessible ceiling space. (U.O.N.)

# ABBREVIATIONS

AC

AIC

AM

AS

AT AWG

BC

CB CO

CT

CU

CFOI

CFCI

DPDT DPST

DUG

EΧ

FLA

FVR

FVNR

GFI

HID HOA

HP

HPS

ΗZ

κw

LCL

LRA

LTG MCC

MECH

NC

NO

OFCI

*O*FOI

PH POC PRS

PT

UG

UON

VA

٧M

νL

WP

ΨŤ

XP

PVC

SUBD

MCM (KCM)

GRD/GND

BLDG

ΑF

AMPERE (AMPS) ALTERNATING CURRENT AMPS-FRAME (RATING) AMP INTERRUPTING CURRENT AMMETER

AMP SWITCH (FUSED SWITCH RATING) AMPS-TRIP (RATING) AMERICAN WIRE GAUGE BARE COPPER BUILDING

CIRCUIT BREAKER CONDUIT ONLY CURRENT TRANSFORMER COPPER

CONDUIT

CONTRACTOR FURNISHED OWNER INSTALLED CONTRACTOR FURNISHED CONTRACTOR INSTALLED DOUBLE POLE DOUBLE THROW DOUBLE POLE SINGLE THROW DRAWING

EXISTING FULL LOAD AMPS FULL VOLTAGE REVERSING FULL VOLTAGE NON-REVERSING GROUND FAULT INTERRUPTER

GROUND HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC HORSEPOWER HIGH PRESSURE SODIUM HERTZ

KILOWATT LONG CONTINUOUS LOAD LOCKED ROTOR AMPS LIGHTING

MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS MECHANICAL

NORMALLY CLOSED NON-FUSED NORMALLY OPEN/NUMBER

OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED POLE PHASE

POINT OF CONNECTION PVC COATED RIGID STEEL (CONDUIT) POTENTIAL TRANSFORMER POLYVINYL CHLORIDE DUCT

SWITCHBOARD TYPICAL UNDERGROUND

UNLESS OTHERWISE NOTED VOLT VOLTAMPERES

VOLTMETER VERIFY LOCATION WIRE/WATTS WIEATHERPROOF (NEMA TYPE

WEATHERPROOF (NEMA TYPE 3R) WATERTIGHT EXPLOSION PROOF (RATED FOR AREA HAZARD)

> Consultant PROFESSION PROFESSION PROFESSION PROFESSION No. E 14781 Exp. 6-30-2017 PROFESSION No. E 14781 Exp. 6-30-2017 PROFESSION PROFESI

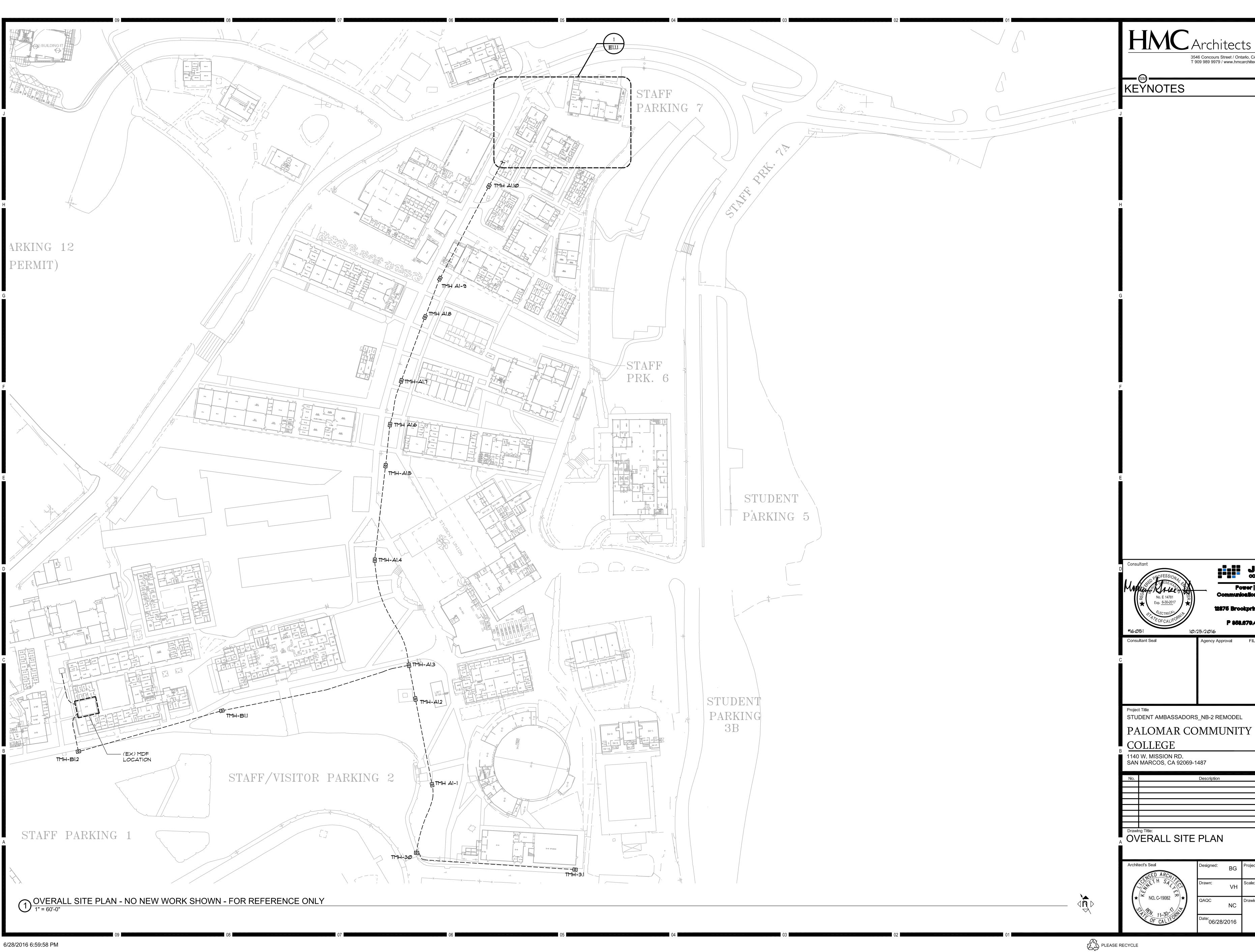
Consultant Seal

Project Title STUDENT AMBASSAC PALOMAR COLLEGE 1140 W. MISSION RD. SAN MARCOS, CA 920



			<b>N S O N</b> Incinizione, Inc.
	Commun 12875 Bro	.679.4030   F	Networking e, Suite 300 , CA 92064
	Agency Approval	FILE NO.	
	S_NB-2 REMODE MMUNI 487		
	Description		Date
LLE	EGEND AI		ES
*	Designed: BG Drawn: VH QAQC NC	Drawing No.	5015014 As indicated
	<sup>Date:</sup> 06/28/2016		1.0

KEYNOTES



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Architects	
3546 Concours Street / Ontario, CA 91764 T 909 989 9979 / www.hmcarchitects.com	

Agency Approval FILE NO.

10/25/2016

Description

Designed:

QAQC

JOHNSON CONFLITHA ENGNESSI, HO.

Power | Lighting | Multimedia Communications | Data Networking

 12875 Brookprinter Place, Suite 300

 Poway, CA 92064

 P 858.679.4030 | F 858.513.0559

 www.jce-inc.com

Project No.

Prawing No.

Scale:

BG

VH

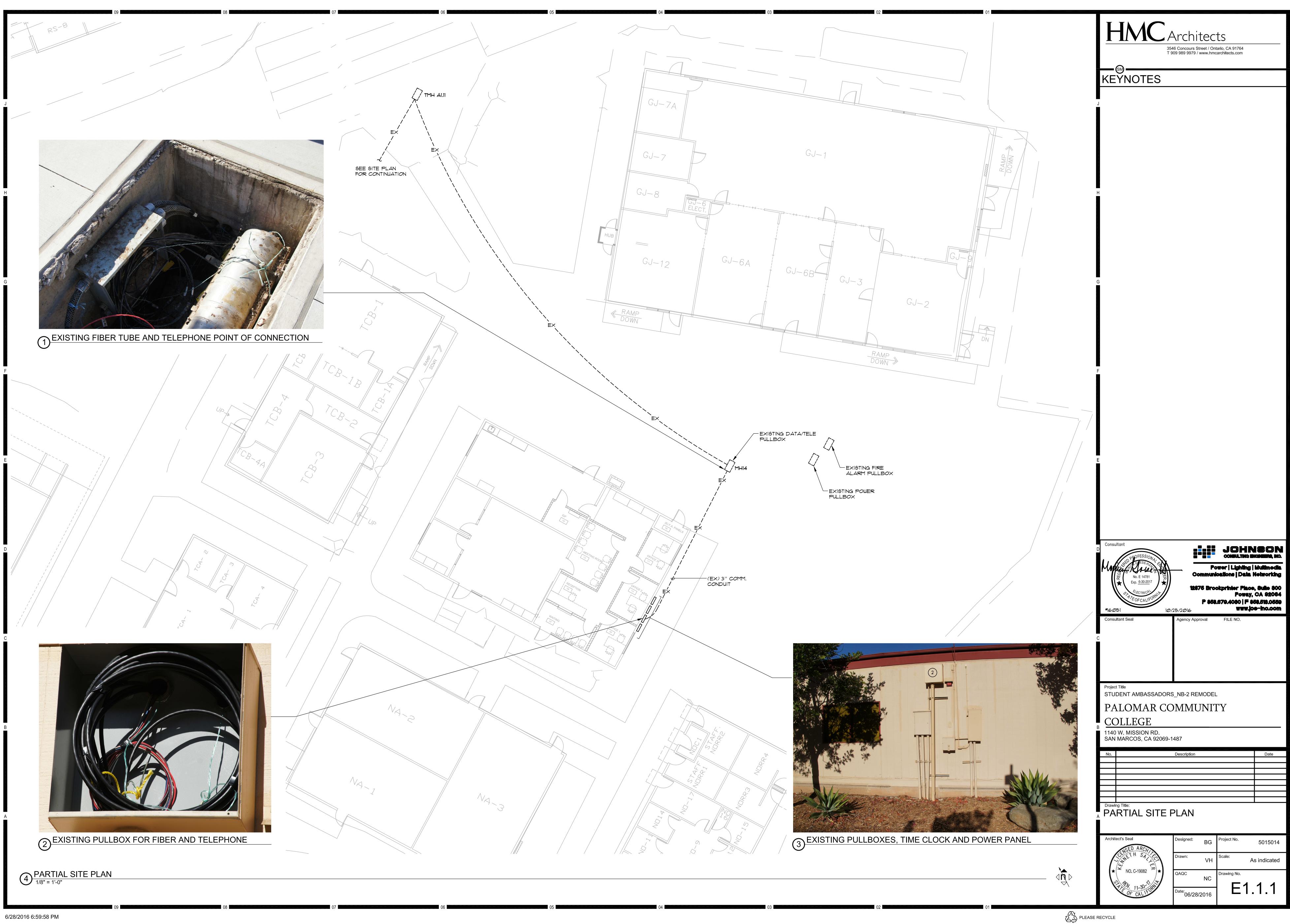
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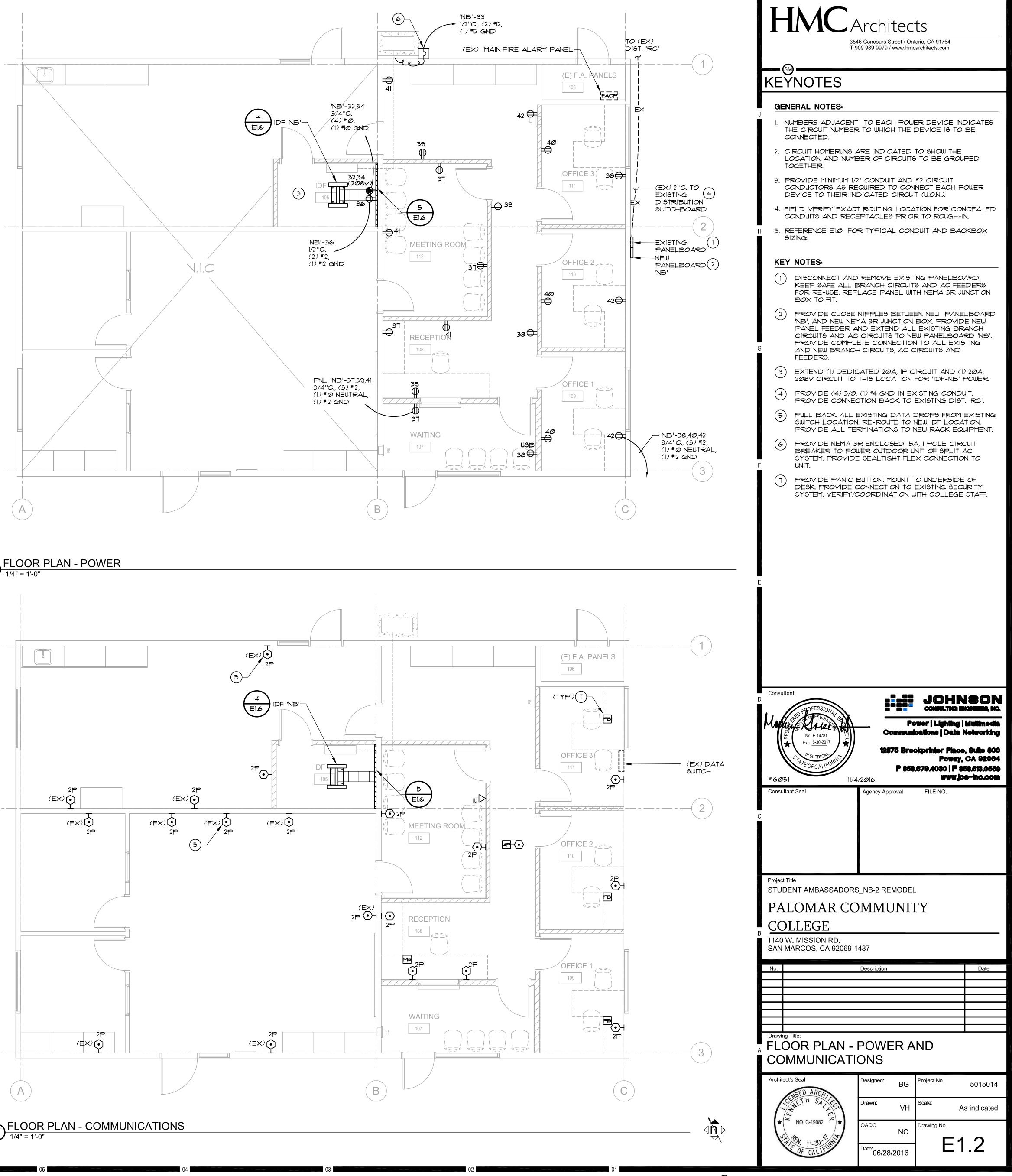
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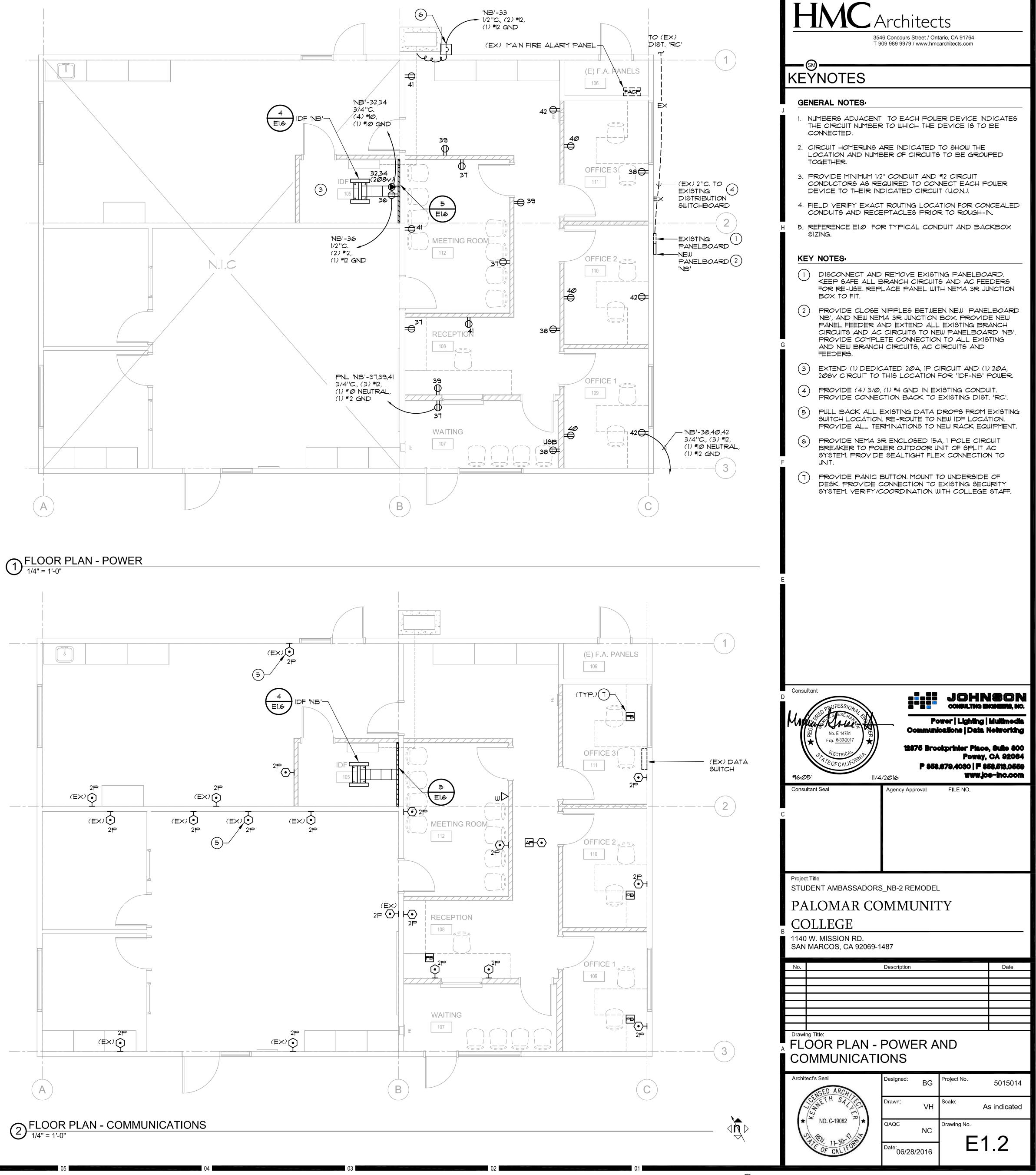
As indicated

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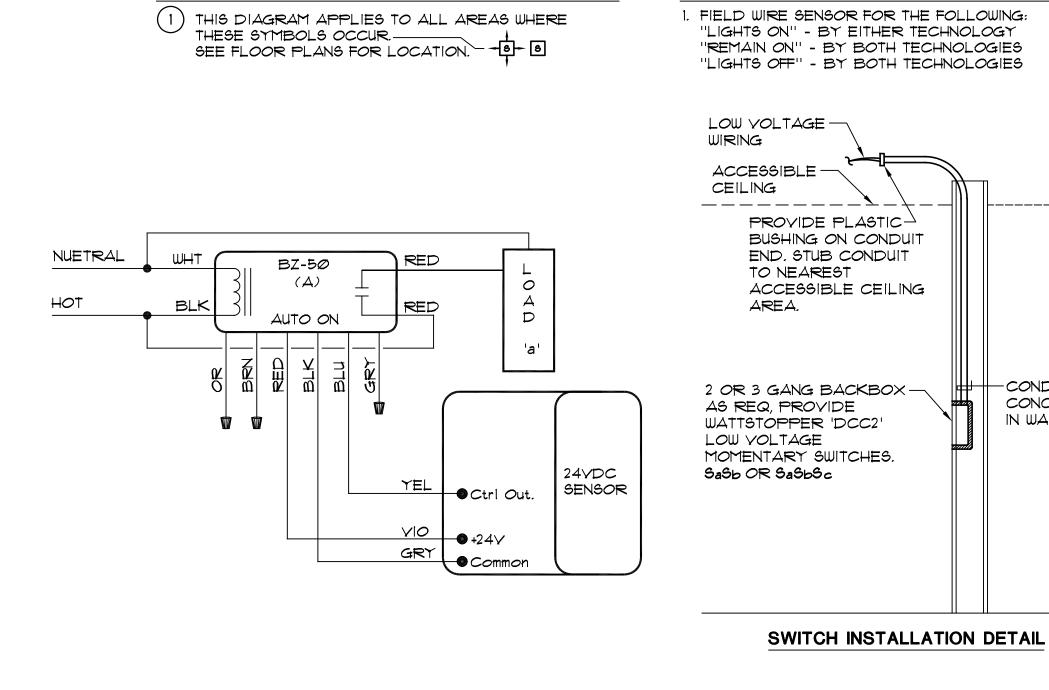


		120/208 3PH, 4WIRE					Main	Breaker	X		ENCLOS	URE TYPE	ENCLOSUR	E NOTE	
		200% Neutral Bus		200		AMP		Lug				NEMA TYPE 1			
. –		(INTEGRAL)TVSS Protection					Enclosure	Recessed	1		X	NEMA TYPE 3R	-		
NΒ		(REMOTE)TVSS Protection						Surface				NEMA TYPE 4X			<u> </u>
		Service Entrance Rated	X	GENERAL								ERGENCY LIGHTING,			
		Load Side Feed thru Lugs		BREAKER	REQUIF	REMENTS :	MOTORS, AND	FIRE ALARM E	QUIPMENT SE		RVED FRC	M THIS PANEL	i		
LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	N	LCL	NHL
		EXISTING LOAD	20	1	1		-		2	20	1	EXISTING LOAD			1
		EXISTING LOAD	20	1	3							EXISTING LOAD			
		EXISTING LOAD			E				4	20	1	EXISTING LOAD			∥
		EXISTING LOAD	20	1	5				6	20	1	EXISTING LOAD			1
		EXISTING LOAD	20	1	7		]					EXISTING LOAD			
		EXISTING LOAD	20	1	9			I	8	20	1	EXISTING LOAD			∥
			20	•	9	-			10	20	1				1
		EXISTING LOAD	20	1	11							EXISTING LOAD			
		EXISTING AC	30		13		Г		12	20	1	EXISTING AC			∥────
			00						14	30					
					15				16	-					1
				3	17										1
							-		18		3				1
		EXISTING LOAD	20	1	19		-		20	30		EXISTING AC			1
		EXISTING LOAD	20	1	21										
		EXISTING LOAD			07				22	20					∥
		EXISTING LOAD	20	1	23				24	20	3				1
		EXISTING LOAD	20	1	25		]					EXISTING LOAD			1
		EXISTING LOAD	20	1	27			I	26	20	1	EXISTING LOAD			╢────
			20	I	21				28	20	1				1
		EXISTING LOAD	20	1	29							EXISTING LOAD			
		EXISTING LOAD	20	1	31		7		30	20	1	IDF RECEPTACLE			1
				•		1500			32	30					
		SPLIT SYSTEM AC UNIT	20	1	33		876 1500		34	-	0				1
			20	1	35		1500		34		2	IDF RECEPTACLE			i
				-			7	1500	36	20	1				1
		RECEPTACLES	20	1	37	800 800	-		38	20	1	RECEPTACLES			1
		RECEPTACLES	20	1	39		800				•	RECEPTACLES			1
		RECEPTACLES	20	4	4.1		800	800	40	20	1	RECEPTACLES			┨┝────
		RECEPTACLES	20	1	41			800 800	42	20	1				1
PECIAL I	PANEL				•				NOTE			•	•		/
OTE									NOTE						
	n Harmoni	ic Load TO	TALI	OAD PER	PHASF	3100	3976	3100							
	g Continu			NTINUOUS			0	0	нісн	PHASE		] / 0.9pf = KVA @		36.8	AMPS
					,					PHASES		] / 0.9pf = KVA @		31.4	AMPS
		SUB P							ł			1	г		11
ax. Neu		SUB P							DEMAN	ID PER			, I		
56	AMPS	јТО	TAL (	CONNECTED	) LOAD	3100	3976	3100		NEC	220-34	0 sq. ft.			





			LIGHTING FIXTURE SCHEDULE	
			FIXTURE LAMP MOUNTING	
Mark	Approved Manufacturer's ( See Key	Catalog Series Type ( See Key	Fluorescent High pressuresodium Low pressuresodium LED LED Anter A	Description
	Note No.1)	Note No.2)	Fluorescent       Metal Halide       High pressures       Low pressures       Matta       Recessed / V       Recessed / V       Pole       Pole	
	CREE	CR24 Series		D 2X4
	LITHONIA LIGHTING		MINIMUM 4000 LUMEN, 5000 KELVIN, 0-10V NO 22 GAUGE STEEL HOUSING. ONE PIECE LOWER F NON-DIMMING.	N-DIMMING. 0.9 P.F. REFLECTOR. 90 CRI.
			□ 277 33w	
			□ Provide Emergency Battery Backup □ Provide custom co finish, to be selec time of submittal	olor See deto
	CREE	CR24 Series		D 2X4
	LITHONIA LIGHTING		MINIMUM 4000 LUMEN, 5000 KELVIN, 0-10V NO 22 GAUGE STEEL HOUSING. ONE PIECE LOWER F NON-DIMMING.	DN-DIMMING. 0.9 P.F. REFLECTOR. 90 CRI.
			□277 33w	
			■ Provide Emergency Battery Backup □ Provide custom co finish, to be selec time of submittal	
<b> </b>				
	CREE	CR24 Series		D 2X2
	LIGHTING		22 GAUGE STEEL HOUSING. ONE PIECE LOWER F	REFLECTOR. 90 CRI.
			277 32w	olor See deta
			Battery Backup finish, to be selectime of submittal	
	CREE	CR24 Series		D 2X2
	LITHONIA LIGHTING		MINIMUM 3200 LUMEN, 5000 KELVIN, 0-10V NO 22 GAUGE STEEL HOUSING. ONE PIECE LOWER F	N-DIMMING. 0.9 P.F. Reflector. 90 Cri.
			□ 277 32w	
			■ Provide Emergency Battery Backup □ Provide custom co finish, to be selectime of submittal	
<u> </u>			time of submittal	
	LITHONIA LIGHTING	ZL2N SERIES		
	•	•	COLOR WHITE, MOUNT 2'-O'' ABOVE DATA RACK.	
<b>B2</b>				
			277 42w	
			Provide Emergency Battery BackupProvide custom co finish, to be selec time of submittal	
	ISOLITE	SLX-60 Series		
	Penteco	P160 Series	N/A SURFACE MOUNT SELF LUMINOUS EXIT SIGN MOU 20YR. LIFE, AND PLASTIC WHITE FRAME. FIELD V	UNT ABOVE DOOR. GR 'ERIFY MOUNTING HARI
	SRB Tech.	171 Series		
$\langle \mathbf{x} \rangle$	Lightolier	TE Series	□277 N/A	
	Mule	EGX Series	Provide Emergency Provide custom co Battery Backup finish, to be selec	
x			480	



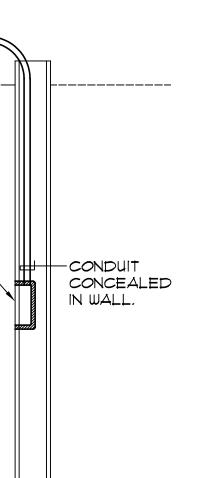
# OCCUPANCY SENSOR CONTROL DIAGRAMS

GENERAL NOTES

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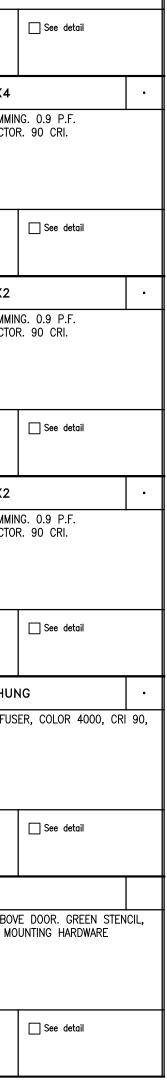


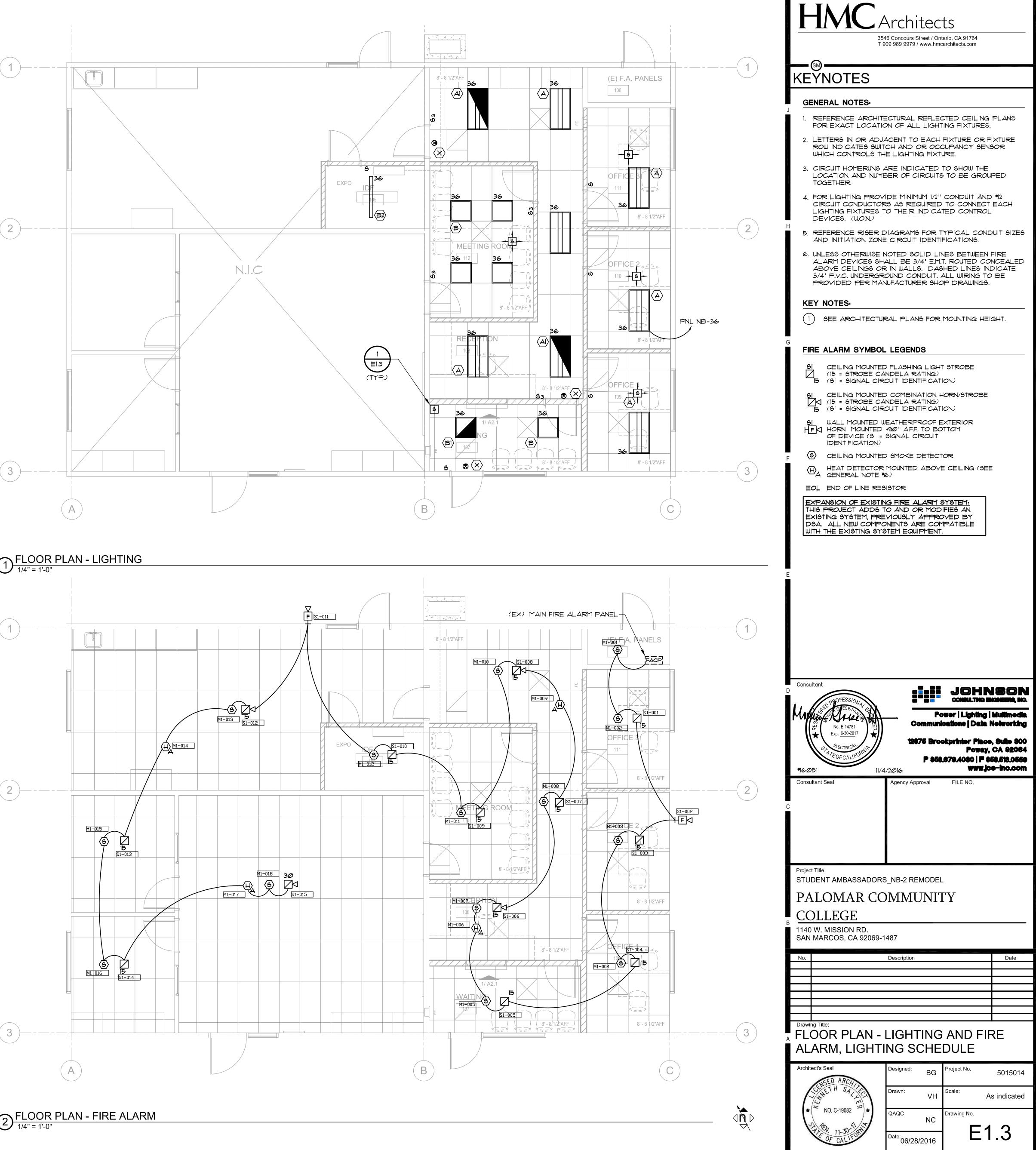
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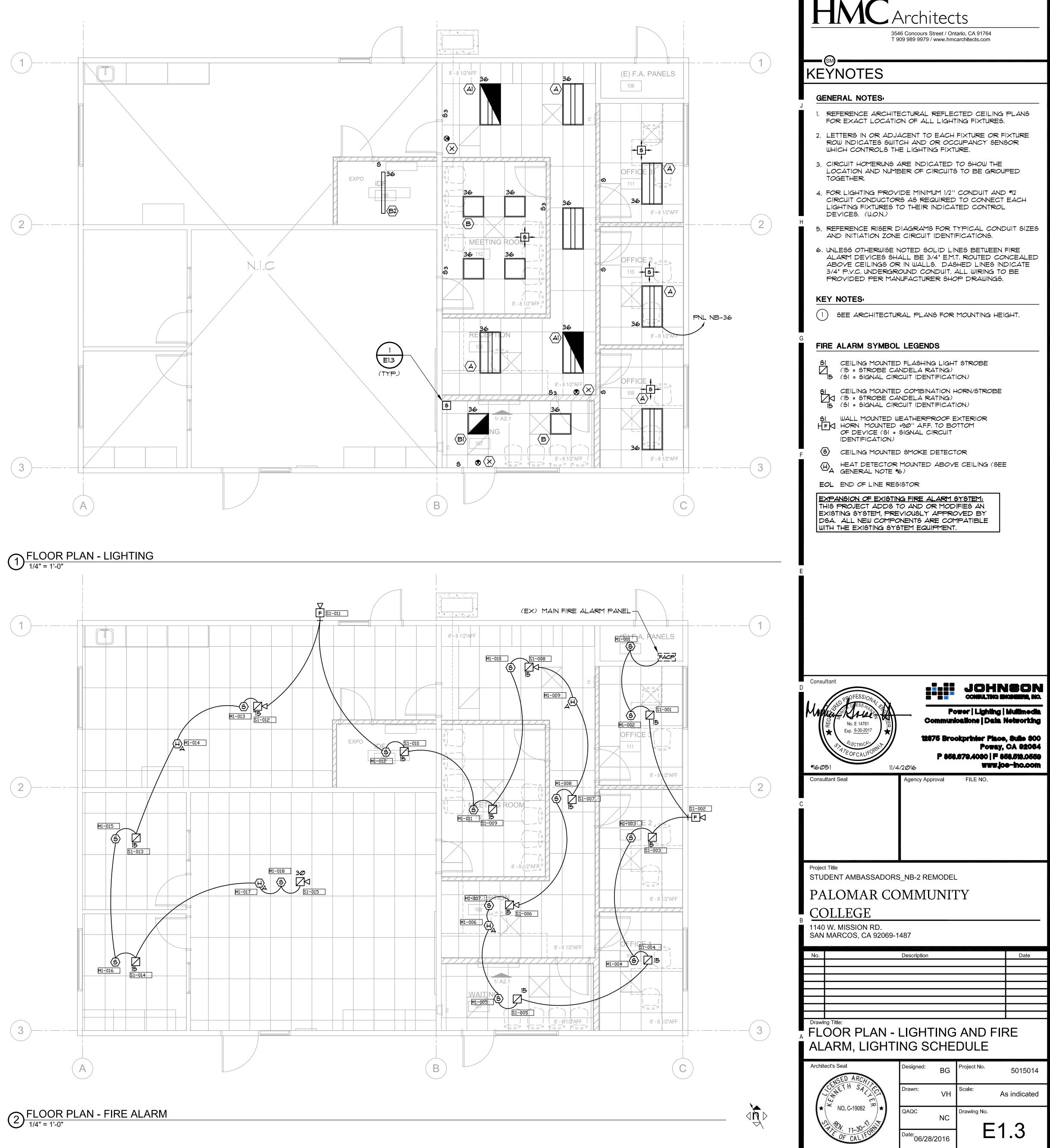




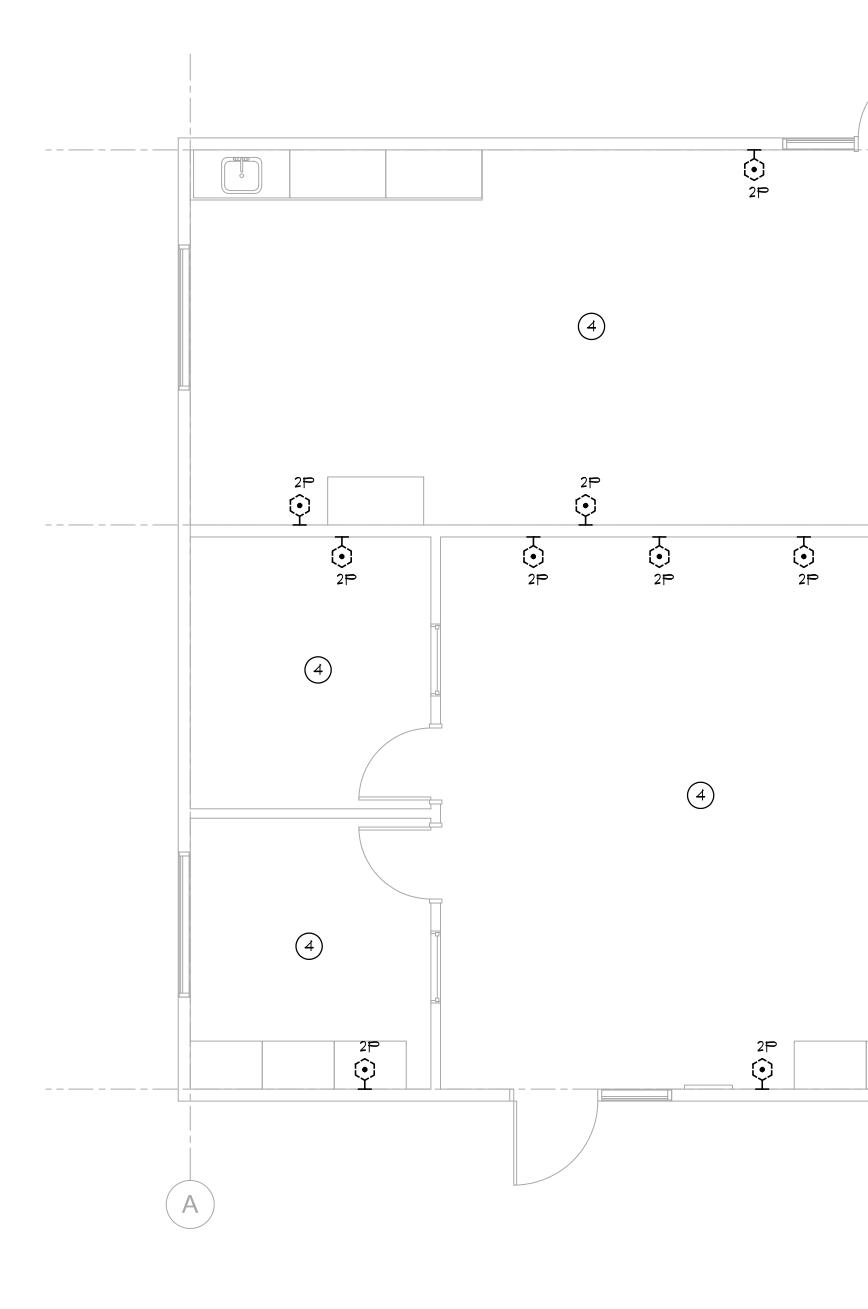
GENERAL NOTES



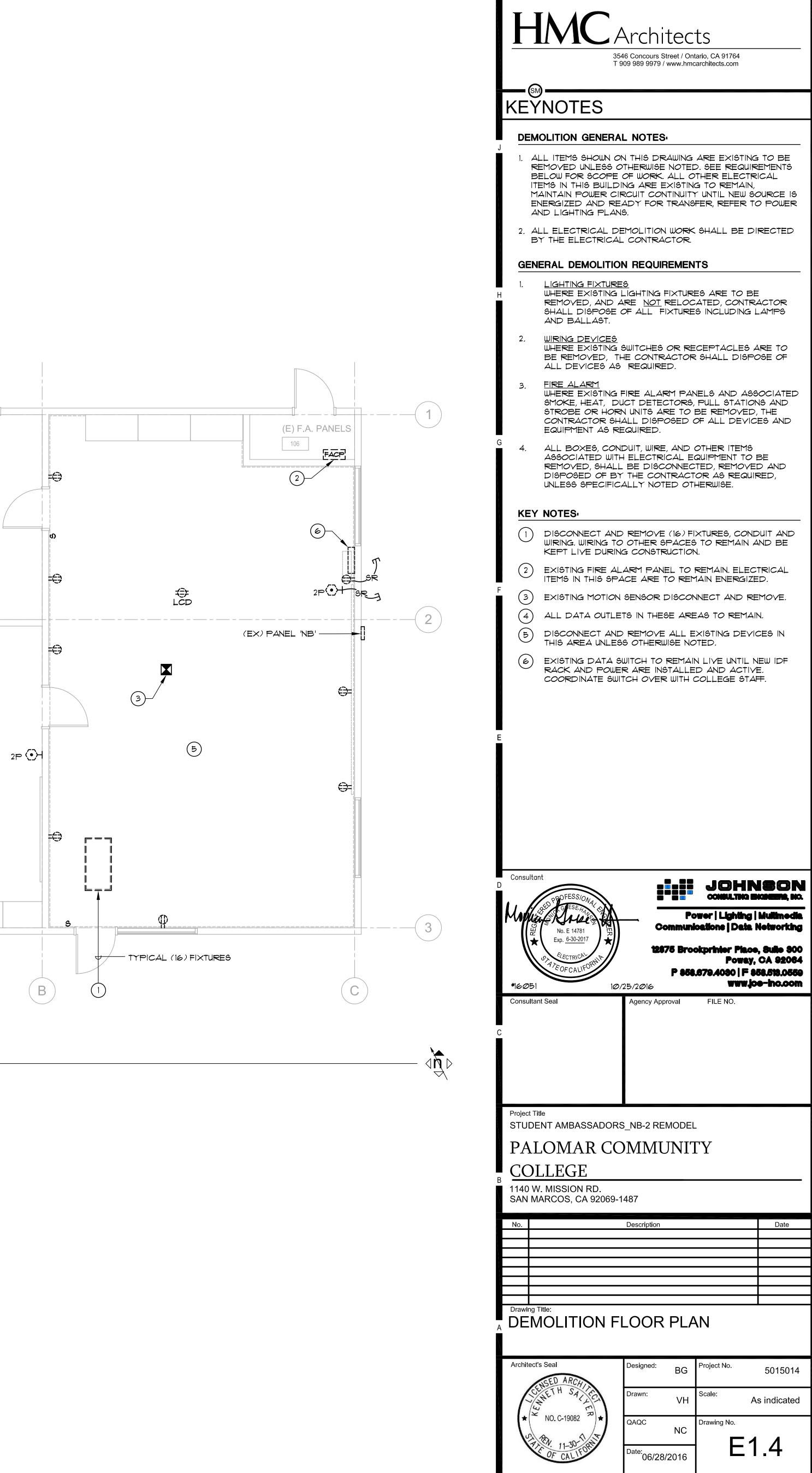


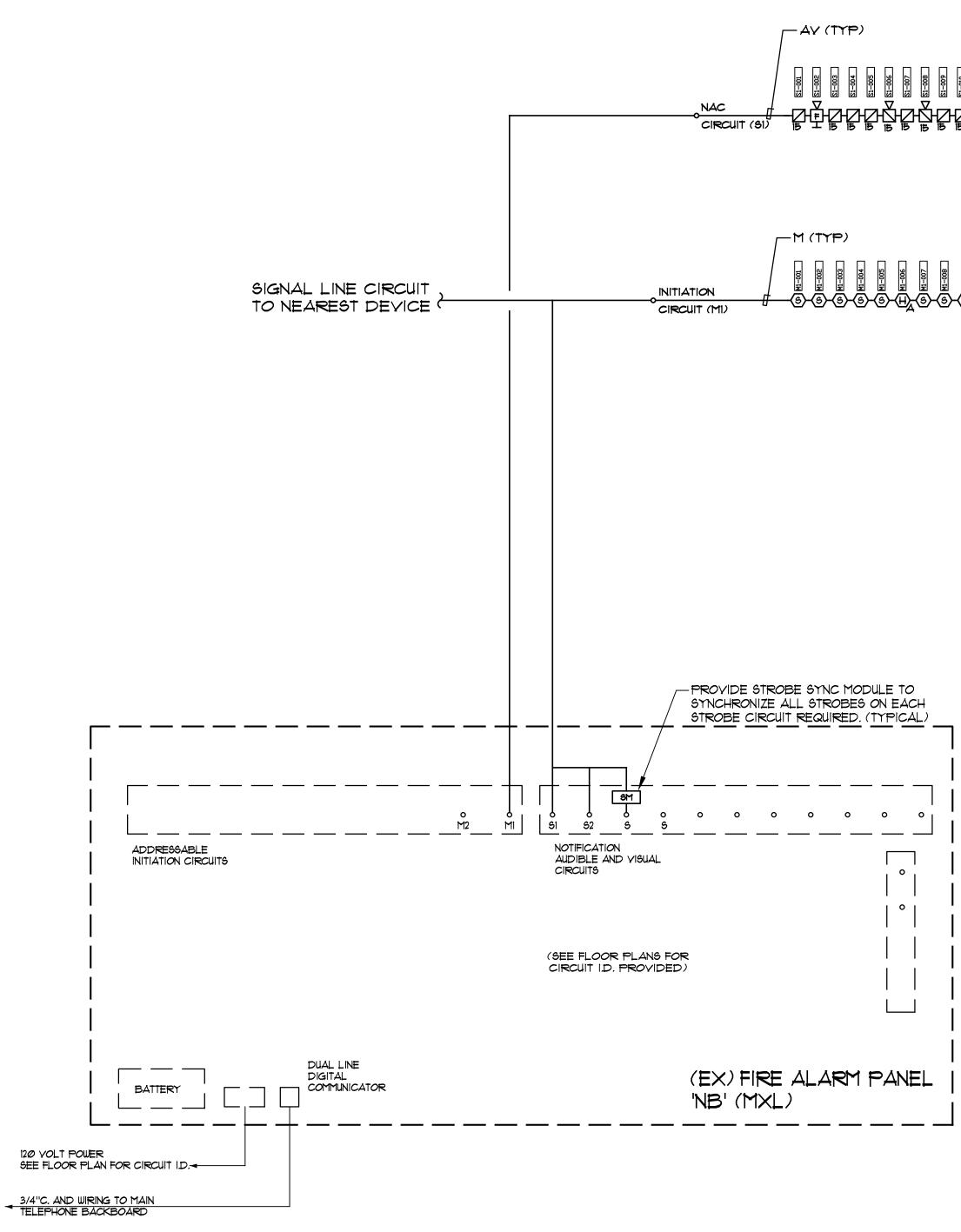












FIRE ALARM RISER DIAGRAM NO SCALE

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	SIEMENS MODEL MXL													
<u>SYM</u>	<u>MODEL NO.</u>	DESCRIPTION	C.S.F.M. LISTING	MFG.										
FACP	FIREFINDER XLS	FIRE ALARM CONTROL PANEL (EXIST.)	7165-0067:222	SIEMENS										
(5)	HFP-11	INTELLIGENT SMOKE DETECTOR	7272-0067:203	SIEMENS										
	DB-11	SENSOR BASE	7300-0067:134	SIEMENS										
Ð	HFPT-11	INTELLIGENT HEAT DETECTOR	7270-0067:224	SIEMENS										
	DB-11	SENSOR BASE	7300-0067:134	SIEMENS										
Ξ <sub>Α</sub>	HFPT-11	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-0067:224	SIEMENS										
	DB-11	SENSOR BASE	7300-0067:134	SIEMENS										
HZÞ	AS-24MCW	HORN/STROBE (15/30/75/110) cd	7125-0785:131	WHEELOCK										
Z⊳	AS-24MCC	HORN/STROBE (15/30/75/95) cd (CEILING MOUNTED)	7125-0785:131	WHEELOCK										
Η₽⊲	AH-24WP-R	EXTERIOR HORN	7125-0785:131	WHEELOCK										
	WFP	EXTERIOR FLUSH PLATE (PART OF ABOVE)		WHEELOCK										
Ю	RSS-24MCW	STRDBE (15/30/75/110) cd	7125-0785:141	WHEELOCK										
	RSS-24MCC	STRDBE (15/30/75/95) cd (CEILING MOUNTED)	7125-0785:141	WHEELOCK										
$\sim$	TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE										

				Rer	Building N note Extender P	B anel				
		Suppler	mentary N		on Appliance Ci		ttery Ca	lculations		
		<u>Ctor</u>								
		Stan	dby Amper	age		Alarm An	nperage			
	Type of Device			<b>T</b> 1 1						<b>-------------</b>
Extender Pa	Or Equipment	Qty	Current	Total	-	Quantity		Current		Total
	· · ·	1	0.006	0.006	4	1		0.006		0.006
Dual Sync M		1	0.035	0.035	-	1		0.035		0.035
Exterior Hor		2		0.000	4	2		0.043		0.086
15cd Horn/S		0		0.000	_	0		0.093		0.000
30cd Horn/S		0		0.000	-	0	+	0.114		0.000
75cd Horn/S		0		0.000	-	0		0.157		0.000
110cd Hom/		0		0.000	4	0		0.197		0.000
	trobe (Ceiling)			0.000	_			0.073		0.146
	trobe (Ceiling)	1		0.000	-	1		0.087		0.087
	trobe (Ceiling)	1		0.000	_	1		0.139		0.139
95cd Horn/S 15cd Strobe	trobe (Ceiling)	0		0.000	4	0		0.186		0.000
	,	-			4					
30cd Strobe	,	0		0.000	-	0		0.062		0.000
75cd Strobe	,	0		0.000	-	0		0.116		0.000
110cd Strob		0		0.000	-	0		0.155		0.000
	Only (Ceiling)	9		0.000	_	9		0.057		0.513
	Only (Ceiling)	0		0.000	-	0		0.072		0.000
	Only (Ceiling)	0		0.000	_			0.128		0.000
95cd Strobe	Only (Ceiling)	0		0.000	-	0		0.171		0.000
	Total Sta	andby A	mperage	0.041	-		Total	Alarm Amp	erane	1.012
	10tal 5ta		inperage	0.041	-		TOUT	erage	1.012	
Standby	Time Required									
24 Hours	x Total Standby A	Amperag	e =		24 x	0.041	=	0.984	Amp Ho	ours
	. De muine d									
Alarm Tin	ne Required									
.083 ( 5 M	in.)x Total Alarr	n Ampera	age =		.083 x	1.012	=	0.084	Amp Ho	ours
					Total Requ	uired	=	1.068	Amp Ho	ours
			Minin	um Rat	tery Amp Hour F	Required	=	7	Amp Ho	ours
								f		

	Calculation Formula:							Circular Mils Using	g #1	0 w ire =10380		
								Circular Mils Using	g #1:	2 w ire = 6530		
	Total Current x Feet :	x 21.6		(Voltage D	rop)			Circular Mils Using #14 w ire = 4110				
	Circular Mills				.,			Circular Mils Using	-			
	Voltage Drop / 24 Vo	olts x 100 Per	cent = Perc	centage Vol	tage Drop							
	Building NB											
Circuit	Device	Devices x Curr	ent	Total	Distance	Circular		Total Vo	ltage	Dropped		
I.D.	Туре			Current	In Feet	Mils	=	Volts Dropped	=	% Volts Dropped		
S 1			0.042	0.000								
31	Exterior Horn	2	0.043	0.086					_			
	Sync Module	0	0.035	0.000					_			
	15cd Horn / Strobe	0							_			
	30cd Horn / Strobe	0	0.114	0.000								
	75cd Horn / Strobe	0	0.157	0.000					_			
	110cd Horn / Strobe	0	0.197	0.000					_			
	15cd Horn / ST (Ceiling)	2	0.073	0.146								
	30cd Horn / ST (Ceiling)	1	0.087	0.087					_			
	75cd Horn / ST (Ceiling)	0	0.139	0.139					_			
	95cd Horn / ST (Ceiling)		0.186									
	15cd Strobe	0	0.041	0.000								
	30cd Strobe	0	0.062	0.000								
	75cd Strobe	0		0.000								
	110cd Strobe	-	0.155	0.000					_			
	15cd Strobe (Ceiling)	9	0.057									
	30cd Strobe (Ceiling)	0	0.072	0.000					_			
	75cd Strobe (Ceiling)	0	0.128						_			
	95cd Strobe (Ceiling)	0	0.171	0.000	050	4440		1.076	_	E 200/		
			Total	0.971	250	4110	=	1.276	=	5.32%		

### FIRE ALARM SEQUENCE OF OPERATION

ACTION	AREA/DUCT SMOKE/HEAT DETECTOR	AC POWER FAILURE		
SOUND ALARM TROUGHOUT BLDG.	YES	NO		
ACTIVATE RELAY FOR MONITORING	YES	YES		
ANNUNCIATE AT PANEL AND ANNUNCIATOR	YES	YES		
SOUND TROUBLE BUZZER	ON WIRING FAULT	YES		
SOUND SPRINKLER BELL	NO	NO		
REPORT TO MONITORING STATION	YES	YES		
INITIATE SHUTDOWN OF HVAC UNITS	YES	NO		

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# 

	<u>WIF</u>	RING SCHEDULE	
DES	CONDUCTOR TYPE	WIRE COLOR	CIRCUIT TYPE
М	(1) 1 PR #14 TWISTED SHIELDED	RED/BLACK/SHIELD	SIGNAL LINE CIRCUIT
AV	(2) #12 THHN (UON ON CALCS)	BLUE/WHITE	NOTIFICATION APP. CIRCUIT (NAC
Р	(2) #12 THHN	RED/BLACK	PDWER

ANNUNCIATOR ZONE SCHEDULE													
	ROOM SMOKE OR HEAT DETECTORS	ABOVE CEILING HEAT DETECTORS	MANUAL PULL STATIONS	DUCT DETECTORS	SPRINKLER SYSTEM	TROUBLE INDICATION							
RELO	YES	YES	N/A	N/A	N/A	YES							
NOTES:	· · · · · · · · · · · · · · · · · · ·												

ALL SMOKE DETECTORS, HEAT DETECTORS ABOVE CEILING DETECTORS, DUCT DETECTORS MANUAL PULL STATIONS, FLOW SWITCHES, TAMPER SWITCHES SHALL BE INDIVIDUALLY ADDRESSABLE.

. PROVIDE (1) ANNUNCIATOR WHICH WILL PROVIDE LED LIGHT INDICATORS TO IDENTIFY THE ABOVE ZONE SCHEDULE (IN ADDITION TO ANNUNCIATOR NOTED IN NOTE # 3).

3. PROVIDE (1) 32 CHARACTER BACK-LIGHTED ALPHA-NUMERIC DISPLAY ANNUNCIATOR WITH KEYPAD FOR OPERATOR CONTROL, PROGRAMMING AND TESTING.

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF

		CONE	DUIT OI	RT						ze for	THIS						
TRADE ICHES)	SIZE		1/2	/2 3/4		1 1/	<b>′</b> 4	1 1/2	2	2 1/2	3	3 1/2	: 4	4	5		
TYPE LETTERS SIZE AWG, kcmil																	
			13 10			69 51	)	94 70	94 154 70 114		164						
THHN <sup>10</sup> 8		)	6 3					44 22	73 36	104 51	160 79	106	1	36			
AREA——SQU									-SQUARE I	JARE INCHES							
				PERCENT REDUCTION PER NUMBER OF 18AWG TWISTED SHIELD PAIRS													
DIAM	DIAMETER 100			).	1	2	3		4	4 5	6	-	7		}		
.62	2	.30	.12		38%	66%		99%	х	X	X		x	>	X		
.82	4	.53	.21		19%	38%		57%	76 <b>%</b>	95%	x		X		x		
1.049	Э	.86	.34		12%	24%		36%	48%	60%	72%	8	4%	96	6 <b>%</b>		
1.380	D	1.50	.60		7%	14%		21%	28%	28% 35%	42%	4	9%	56	8%		
1.610	)	2.04	.82		5%	10%		15%	20%	25%	30%	3	5%	40	)%		
	INTEI DIAM INCH .62 .82 1.04 1.380	RS SIZE AWG, k 14 12 10 8 NTERNAL DIAMETER	Image: Chess       Conductor         RS       Conductor         SIZE       AWG, kcmil         14       12         10       8         Internal       100%         INTERNAL       100%         DIAMETER       100%         INCHES       .30         .824       .53         1.049       .86         1.380       1.50	Image: Check Size Check Size AWG, kcmil       1/2         RS       CONDUCTOR SIZE AWG, kcmil       13         14       13         12       10         10       6         3       3         10       6         3       0         10       0         10       10         10       0         10       0         10       0         10       0         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       100%         100%       0         100%       0         100%       0         100%       0         100%       0         100%       0         100%       0         100%       0         100%       0         100%       0         100%       0         100%       0         100%       0         100% <td>Image: Check Size Check Size AWG, kcmil     1/2     3/       RS     CONDUCTOR Size AWG, kcmil     13     2/       14     13     10     16       12     10     6     11       10     6     11       10     6     11       10     6     11       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       100%     100%     10       100%     100%     10       100%     100%     10       1.622     .30     .12       .824     .53     .21       1.049     .86     .34       1.380     1.50     .60</td> <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>PROJECT IS 3/4*         TRADE SIZE (CHES)       1/2       3/4       1       1 1/4       1 1/2       2       2 1/2         RS       CONDUCTOR SIZE AWG, kcmil       I</td> <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td> <td>PROJECT IS 3/4*         TRADE CHES       SIZE       1/2       3/4       1       1 1/4       1 1/2       2       2 1/2       3       3 1/2       4         CONDUCTOR SIZE AWG, kcmil       CONDUCTOR 14       13       24       39       69       94       154       164      </td> <td>PROJECT IS 3/4*         TRADE SIZE (HES)       1/2       3/4       1       1 1/4       1 1/2       2       2 1/2       3       3 1/2       4         RS       CONDUCTOR SIZE AWG, kemil       I       I       1 1/4       1 1/2       2       2 1/2       3       3 1/2       4         10       I4       13       24       39       69       94       154       164       I       I       I         10       I4       13       24       39       69       94       154       164       I</td>	Image: Check Size Check Size AWG, kcmil     1/2     3/       RS     CONDUCTOR Size AWG, kcmil     13     2/       14     13     10     16       12     10     6     11       10     6     11       10     6     11       10     6     11       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       10     10     10       100%     100%     10       100%     100%     10       100%     100%     10       1.622     .30     .12       .824     .53     .21       1.049     .86     .34       1.380     1.50     .60	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PROJECT IS 3/4*         TRADE SIZE (CHES)       1/2       3/4       1       1 1/4       1 1/2       2       2 1/2         RS       CONDUCTOR SIZE AWG, kcmil       I	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	PROJECT IS 3/4*         TRADE CHES       SIZE       1/2       3/4       1       1 1/4       1 1/2       2       2 1/2       3       3 1/2       4         CONDUCTOR SIZE AWG, kcmil       CONDUCTOR 14       13       24       39       69       94       154       164	PROJECT IS 3/4*         TRADE SIZE (HES)       1/2       3/4       1       1 1/4       1 1/2       2       2 1/2       3       3 1/2       4         RS       CONDUCTOR SIZE AWG, kemil       I       I       1 1/4       1 1/2       2       2 1/2       3       3 1/2       4         10       I4       13       24       39       69       94       154       164       I       I       I         10       I4       13       24       39       69       94       154       164       I		

2 2.067 3.36 1.34 3% 6% 9% 12% 15% 18% 21%

# APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2013 EDITION			
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED)	2013 EDITION			
NFPA ITA	WEST CHEMICAL SYSTEMS	2013 EDITION			
NFPA 20	STATIONARY PUMPS	2013 EDITION			
NFPA 24	PRIVATE FIRE MAING (CA AMENDED)	2013 EDITION			
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2013 EDITION			
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2013 EDITION			
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2013 EDITION			
REFERENCE CODE SECTION FOR NEPA STANDARDS - 2013 CBC (SFM) CHAPTER 35.					
BEE CHAPTER	FOR STATE OF CALIFORNIA AMENDMENTS TO NEPA S	BTANDARDS.			

# FIRE ALARM MONITORING NOTE

1. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NEPA 12 AS AMENDED BY CFC SECTION 907. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

# FIRE ALARM GENERAL REQUIREMENTS

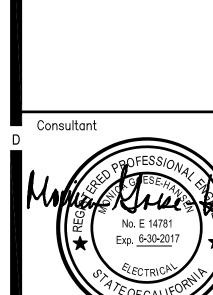
- 1. THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (28 30 00), FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
- 2. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 3/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TYPES AND QUANITITES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL WIRING AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. SHOP DRAWINGS AND OR AS-BUILT DOCUMENTS SHALL INDICATE ALL WIRING PROVIDED.
- 3. THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL 15 db's OVER THE AMBIENT NOISE LEVEL. ADD ADDITIONAL DEVICES AS REQUIRED.
- 4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A REACCEPTANCE TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY AND IN ACCORDANCE WITH SPECIFICATIONS (28 30 00). THE CONTRACTOR SHALL FURNISH db METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
- 5. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH U.L. ASSEMBLY WL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL ON THE DETAIL SHEET.
- 6. ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.

# APPLICABLE CODES

2013 BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 C.C.R.). 2013 CALIFORNIA BUILDING CODE (PART 2, TITLE 24 C.C.R.). (2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24 CCR) (2014 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2013 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR) (2012 INTERNATIONAL FIRE CODE AND 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2013 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24, CCR) TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS



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Agency Approval FILE NO.

10/25/2016

Description

Designed:

QAQC

BG

NC

<sup>e</sup>06/28/2016

Johnson

CONFULTING ENGINEERS, INC

Powey, CA 92064

www.jce-inc.com

Power | Lighting | Multimedia

Communications | Data Networking

12875 Brookprinter Place, Suite 300

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Prawing No.

Scale:

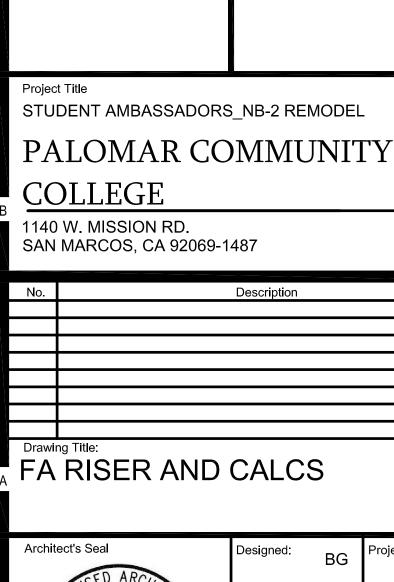
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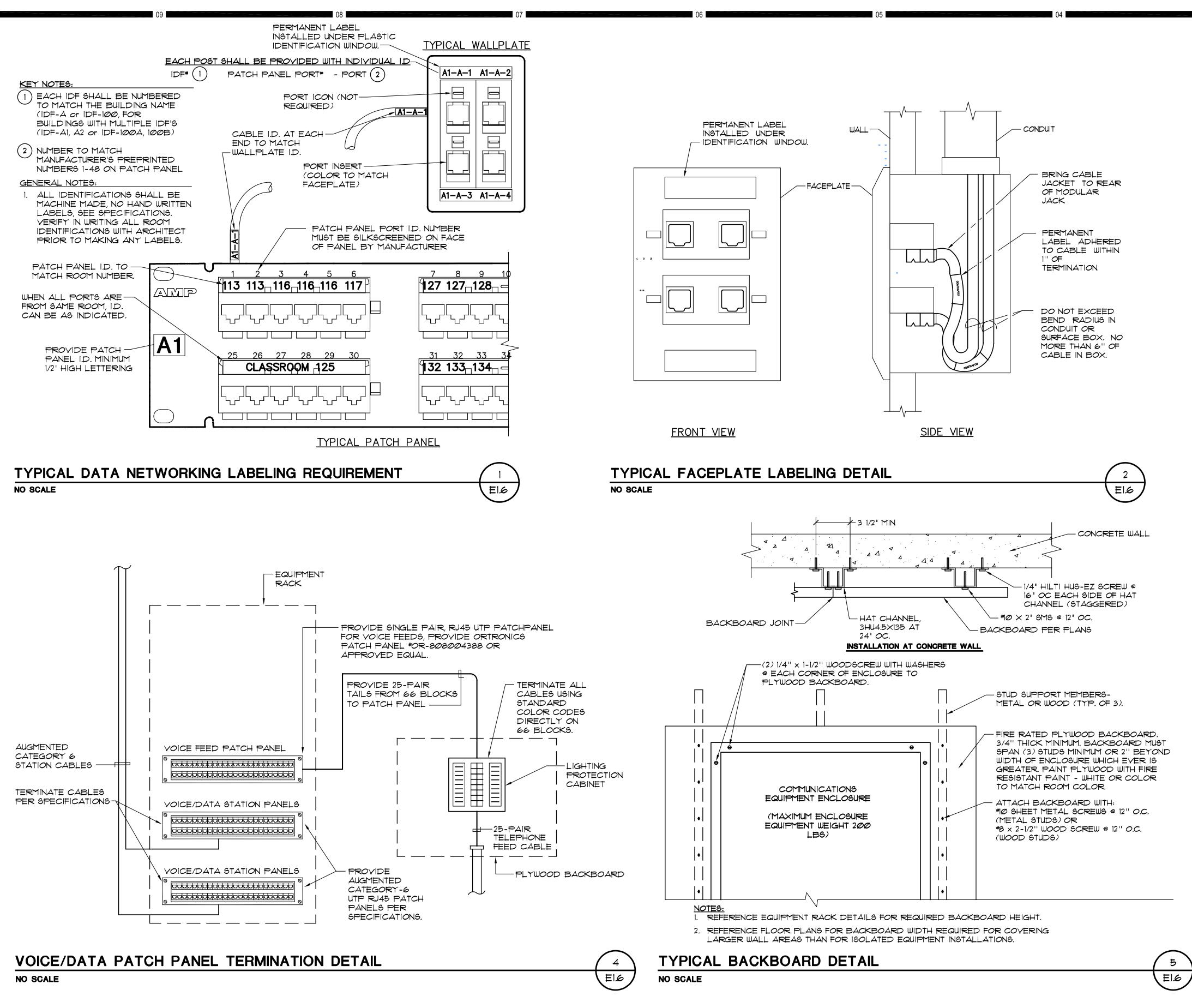




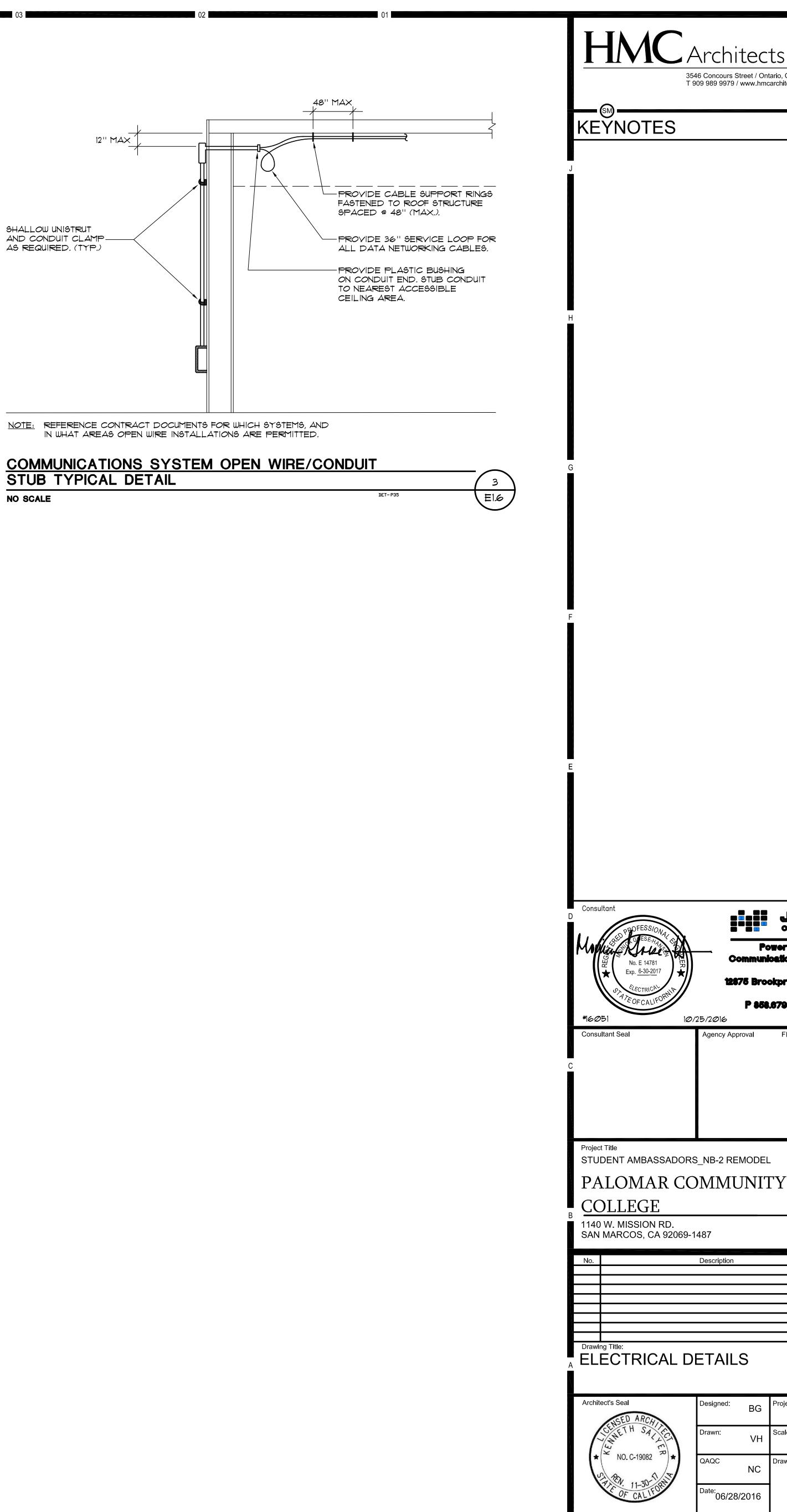
# HMCA Architects

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KEYNOTES



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