# MUNSEY ELEMENTARY SCHOOL MUNSEY ELEMENTARY PORTABLES BAKERSFIELD CITY SCHOOL DISTRICT 3801 BRAVE AVE BAKERSFIELD, CA.

#### Relocatable Ramp Block Not

incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization

The design professional has exempted this ramp from special inspection requirements for material identification and structural welding. Ramp shall not be modified or have shims added causing the distance between the highest ramp walking surface and the adjacent grade to be more than 30 inches. If this condition is not met, structural testing and/or inspection will be required to verify materials and structural welding. This applies to scopes of work including new construction, alteration, or relocation of the ramp.

GENERAL NOTES	VICINITY MAP	BUILDING DATA	SCOPE OF WORK	ARCHITECT'S STATEMENT	OVER S LEMEN EMENTA
ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS	STOCKDALE HWY	OCCUPANCY = E  TYPE OF CONSTRUCTION = VB (NON-SPRINKLERED)	RELOCATION OF (2) PORTABLE CLASSROOMS FROM MFR. STOCKPILE, METAL RAMP AND CONSTRUCTION OF UTILITY SERVICES ON AN EXISTING SCHOOL CAMPUS.	ARCHITECT'S STATEMENT FOR PLANS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS	
2. CHANGES MADE TO THE APPROVED DRAWINGS AND SPECS SHALL BE MADE BY ADDENDUM OR C.C.D., APPROVED BY DSA AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.		2 (N) CLASSROOMS @ 960 SF = 1,920 S.F.  TOTAL SQUARE FOOTAGE 1,920 S.F.	CONSTRUCTION OF WOOD FOUNDATION FOR PORTABLE BUILDING	THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED IN THE SHEET INDEX AND CHECKED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DOCUMENTS IN THIS STATE. THESE DOCUMENTS HAVE BEEN	Sheet Title: Project Name & Addin MUNSEY MUNSEY BAKER
3. REFER TO RELOCATABLE BUILDING MANUFACTURER'S DRAWINGS FOR ALL INFORMATION REGARDING THE RELOCATABLE BUILDINGS	BRAVE AVE	PER 2016 C.B.C. TABLE 503: ALLOWABLE AREA = 9,500 S.F. 1,920 S.F. < 9,500 S.F. = OK	SHEET INDEX  SHT. NO. DESCRIPTION  A1 SHEETS	EXAMINED BY ME FOR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.  THE ITEMS CHECKED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE	Sheet 7 Till M M M M M M M M M M M M M M M M M M
4. DSA ACCEPTED TESTING LABORATORY TO BE DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT	BELLE TERRACE	ADDITION DI E CODEC.	GENERAL	CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.)  SEE THE SHEET INDEX ON THIS SHEET FOR DRAWINGS OTHER THAN ARCHITECTURAL.	ue Date: UE DA  1/10/1  igner:
5. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR	PROJECT LOCATION	APPLICABLE CODES:	T1.01 COVER SHEET	APPLICABLE:    STRUCTURAL   PLUMBING   MECHANICAL   ELECTRICAL     PORTABLE MANUFACTURER   GIVIL	Agency Approval Stamp:
NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD),	3801 BRAVE AVE	COMPLY WITH PART 1, TITLE 24, 2016 CCR.  A COPY OF TITLE 24 SHALL BE ON SITE AT ALL TIMES. CONSTRUCTION SHALL COMPLY	ARCHITECTURAL  A1.01 OVERALL SITE PLAN	SIGNATURE OF THE ARCHITECT/ENGINEER DATE	FILE #: 15-6 IDENTIFICATION STAMP
OR A SEPARATE SET OF PLANS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.	BAKERSFIELD CITY SCHOOL DISTRICT	WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS. INCLUDING THE FOLLOWING:	A1.02 DEMOLITION SITE PLAN A1.03 ENLARGED SITE PLAN A1.04 DETAILS	NAME, TITLE, AFFILIATION PROJECT ARCHITECT, INTEGRATED DESIGNS BY SOMAM, INC.	DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, RODA AND ACCES REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES	BUILDING DATA	TITLE 24, CCR, PART 2, 2016 CBC	ELECTRICAL	C— 28966 05—31—19 LICENSED NUMBER EXPIRATION DATE	AC_MF FLS \PRISS_CL DATE_NOV - 8 2017
7. THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF UNITS:  A. IN-PLAN VERIFIED REPORT	WIND DESIGN DATA [2016 CBC 1603A.1.4]	TITLE 24, CCR, PART 3, 2016 CEC  TITLE 24, CCR, PART 4, 2016 CMC	E-1 SITE PLAN - ELECTRICAL  E-2 POWER AND SIGNAL PLAN  E-3 FIRE ALARM PLAN	SYMBOLS	TRACKING #: 63321-292
B. LABORATORY VERIFIED REPORT C. WELDING VERIFIED REPORT THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS AND SERIAL	1. ULTIMATE DESIGN WIND SPEED V= 110 MPH 2. RISK CATEGORY II	TITLE 24, CCR, PART 5, 2016 CPC	E-4 DETAILS AND SYSTEM DIAGRAMS E-5 SHEET SPECS 10 SHEETS	SECTION KEY SECTION IDENTIFICATION	Stamp(s):
NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNITS.  NOTIFY ARCHITECT AND DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR	3. WIND EXPOSURE CAEGORY  4. INTERNAL PRESSURE COEFFICIENT +/- 0.18  5. ENCLOSURE CLASSIFICATION ENCLOSED	TITLE 24, CCR, PART 6, 2016 CEC	STOCKPILE # 68794 - 24' x 40' RELOCATABLE BUILDING BY PACESETTER STK #330	SHEET NUMBER  DETAIL KEY	
6. IN-PLANT INSPECTOR AND MANUFACTURER SHALL FOLLOW THE REQUIREMENTS OF DSA IR16-1.13 AND INCLUDE THE FOLLOWING	EARTHQUAKE DESIGN DATA [2106 CBC 1603.A.1.5	TITLE 24, CCR, PART 9, 2016 CFC TITLE 19, CCR.	A TITLE SHEET, SHEET INDEX, DSA REQUIREMENTS, BUILDING DATA A1 GENERAL SPECIFICATIONS, VARIABLE SPECIFICATIONS, GENERAL NOTES	DETAIL NUMBER  A2.01 SHEET NUMBER	
INFORMATION ON ID TAG OF SHOP FABRICATED RELOCATABLE STRUCTURES:  1. THE DSA APPLICATION NUMBER AND CBC EDITION UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED	SITE COORDINATES: 35.34856° N 119.04464° W  1. RISK CATEGORY	NFPA 72, 2016 EDITION	A2 FLOOR PLAN, ROOF PLAN, DETAILS, SCHEDULES A3 EXTERIOR AND INTERIOR ELEVATIONS, GENERAL NOTES, LEGEND A4 REFLECTED CEILING PLAN, DETAILS	A ELEVATION DIRECTION  ELEVATION IDENTIFICATION	CENSED ARCHITEC
<ul><li>2. THE MANUFACTURER OR BUILDINGS NAME</li><li>3. THE SERIAL NUMBER</li><li>4. THE DESIGN CLIMATE ZONE</li></ul>	2. SEISMIC IMPORTANCE FACTOR le= 1.0 3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS	INCRECTOR OF RECORD	A5 CROSS SECTION, DETAILS A6 DETAILS	D A5.01 B SHEET NUMBER	* No. C 28966 **
<ul><li>5. THE DESIGN LIVE LOADS FOR THE ROOF AND FLOOR</li><li>6. THE DESIGN WIND SPEED AND EXPOSURE CATEGORY</li><li>7. THE SEISMIC DESIGN Ss</li></ul>	Ss = 1.092g S1 = 0.406g 4. SITE CLASS D	THIS PROJECT REQUIRES A CLASS 3 INSPECTOR.	M1 MECHANICAL PLAN, DETAILS	ELEVATION DATUM INDICATES HEIGHT IN RELATION TO 0'-0"	OF CALIFORNIE
	5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS  SDS = 0.774g SD1 = 0.432g	THE INSPECTOR OF RECORD SHALL BE DSA APPROVED AND CONFORM TO THE CLASSIFICATION CRITERIA AS PROVIDED IN INTERPRETATION OF REGULATIONS (IR) A-7, DATED JULY 17, 2013	S0.1 GENERAL NOTES AND TYPICAL DETAILS S0.2 TYPICAL DETAILS S2.2 WOOD FOUNDATION PLANS	OFFICE - ROOM NAME	Job No.: <b>5260</b>
	GEOTECHNICAL INFORMATION [2106 CBC 1603.1.6	THE INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT AND APPROVED BY THE RESPONSIBLE	S2.3 FLOOR AND ROOF PLANS S2.4 TYPICAL FLOOR & ROOF PLANS & DETAILS - SIDEWALL MODULES SE 104 MOOD FOUNDATION DETAILS	100 ROOM NUMBER  (A) WINDOW SCHEDULE KEY	5268
	1. ALLOWABLE SOIL BEARING PRESSURE = 1000 PSF	ARCHITECT.	S5.1W WOOD FOUNDATION DETAILS S8.1 ROOF AND FLOOR DETAILS S8.2 ROOF DETAILS	(1) KEYNOTE SCHEDULE KEY	T1.01
			S9.1 RAMP AND LANDING - FRAMING PLAN, GENERAL NOTES 19 SHEETS S9.2 RAMP AND LANDING - ELEVATION, DETAILS 29 SHEETS	201 DOOR SCHEDULE KEY	Release: -

**OVERALL SITE PLAN** MUNSEY ELEMENTARY PORTABLES

#### GENERAL NOTES **ACCESSIBILITY NOTES**

THE PATH OF TRAVEL (P.O.T.) 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 P.O.T. WAS EXAMINED AND ANY

ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. 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 P.O.T. 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 P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ARCHITECT HAS INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER-FREE ACCESSIBLE ROUTE:

- AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE
- FREE OF ABRUPT LEVEL CHANGES EXCEEDING ½" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1"
- WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE
- WITH A RUNNING SLOPE OF 1:20 (5%) OR LESS AND WITH A CROSS SLOPE OF 1:50 (2%) OR LESS OR A RAMP WITH A RUNNING SLOPE OF 1:12 (8.33%) AND A CROSS SLOPE OF 1:50 (2%) WITH APPROPRIATE REQUIREMENTS AS DETAILED WITHIN THIS SET OF DOCUMENTS.
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE

GENERAL CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO BID. IF ANY DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN

WRITING. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF LAYOUTS AND ESTABLISHED LOCATIONS OF BURIED UTILITY LINES. ANY UTILITIES REQUIRING RELOCATION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR CONTACT APPLICABLE GOVERNING AGENCIES REGARDING ARRANGEMENT AND COORDINATION OF

GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY COMPACTION RETEST DUE TO INITIAL FAILURE. PROJECT INSPECTOR SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT

- A COPY OF TITLE-24, ALL PARTS APPLICABLE, TO BE KEPT AT THE JOB SITE AT ALL TIMES. ADDENDA SHALL BE SIGNED BY THE ARCHITECT
- (RESPONSIBLE IN CHARGE) AND APPROVED BY DSA. 3. C.C.D.s SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE), OWNER AND APPROVED BY TESTING LAB SHALL BE EMPLOYED BY THE OWNER,
- APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA. ALL WORK SURFACES DISTURBED OR DAMAGED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED IN KIND, TEXTURED AND FINISHED TO MATCH ADJACENT
- NEW CONCRETE WALKS SHALL HAVE SLOPES NOT TO EXCEED 1 IN 20 IN THE DIRECTION OF PATH OF TRAVEL. PROVIDE CONTROL JOINTS ("C.J.")AT 5'-0" o.c. MAX. AND EXPANSION JOINTS NOT TO EXCEED 30'-0" MAX. PROVIDE MEDIUM BROOM FINISH ON ALL WALKS.
- ALL BUILDING AND ROOM NAMES INDICATED ON THESE CONSTRUCTION DOCUMENTS ARE "NOT" THE ACTUAL BUILDING/ ROOM SIGNAGE DESIGNATION. THE GENERAL CONTRACTOR SHALL FURNISH, INSTALL AND COORDINATE ALL REQUIRED SIGNAGE WITH THE OWNER/ARCHITECT PRIOR TO STARTING CONSTRUCTION.
- GENERAL CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE RELOCATABLE BUILDING DELIVERY DATE TO THE SCHOOL SITE WITH THE MFGR.
- I. THE GENERAL CONTRACTOR SHALL CONSTRUCT ALL NEW RELOCATABLE BUILDING FOUNDATIONS AS PER THE RELOCATABLE BUILDING MANUFACTURER'S DRAWINGS AND SPECIFICATIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL HOOK-UPS TO THE RELOCATABLE
- BUILDINGS AFTER INSTALLATION HAS BEEN COMPLETED BY THE MANUFACTURER. . 5'-0" DEEP x 5'-0" WIDE MINIMUM LANDINGS AT DOORWAYS SHALL BE AS DETAILED AND SHALL HAVE SLOPES (IN ANY DIRECTION) OF NOT GREATER THAN 1/4 IN 12 SLOPE. SLOPES SHALL BE AWAY FROM
- GENERAL/SITE CONTRACTOR SHALL FIELD VERIFY THAT EXISTING PATH OF TRAVEL (P.O.T.) IS A MINIMUM OF 4'-0" WIDE AND IS SLIP RESISTANT. IF IT IS NOT, THEN THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF RECORD AND A REMEDY OR ALTERNATE P.O.T. WILL BE PROVIDED.
- . THE MAXIMUM DROP BETWEEN EXISTING FINISHED GRADES AND THE TOP OF THE P.O.T. SHOULD NOT EXCEED 4". IF IT DOES, PROVIDE THE NECESSARY WARNING CURB PER CBC SEC. 11B-303.5.

CONTRACTOR TO CONFIRM ALL ELEMENTS NOTED ON ACCESSIBLE PATH COMPLY WITH 2016 CBC. THIS IS TO INCLUDE PARKING STALL SIGNAGE AND STRIPING.

#### SAFE DISPERSAL **PARKING** TEMPORARY CLASSROOMS

**HYDRANT FLOW TEST** 

California Water Service Company

Fire Flow Test

Test Time: 6:00

(2) NEW CLASSROOM @ 960 S.F. (24'x40') EA. = 1920 S.F. (1) (E) CLASSROOM @ 960 S.F. (24'x40') EA. = 960 S.F. 2880 S.F.

2880 S.F. / 20 S.F. PER OCCUPANT = 144 OCCUPANTS 144 OCCUPANTS x 5 S.F. / OCCUPANT = 480 S.F. REQ'D

TOTAL SAFE DISPERSAL AREA

40'x 30' = 1200 S.F. PROVIDED 1200 S.F. > 480 S.F. O.K.

NOTE: SAFE DISPERSAL AREA MUST BE 50' MIN. AWAY FROM ANY BUILDING. AREA SHALL BE PROVIDED WITH A SAFE AND UNOBSTRUCTED PATH OF TRAVEL FROM ANY BUILDING

Fire Flow Test Application

Test Date: 6/2/2017

District: BAKERSFIELD General Location:

Requested By: BCSD Purpose Of Test: FIRE FLOW

http://engwebserver/fireflow/

Address: 3801 BRAVE AVE Cross Street: PIUTE

Conducted By: ROBER BROWN - JACK MOORE

PARKING LOT #1 TOTAL STALLS PROVIDED ACCESSIBLE STALLS REQUIRED - 1 VAN STALL ACCESSIBLE STALLS PROVIDED - 1 VAN STALL

PARKING LOT #2 TOTAL STALLS PROVIDED ACCESSIBLE STALLS REQUIRED - 1 VAN STALL

ACCESSIBLE STALLS PROVIDED - 1 VAN STALL PARKING LOT #3 TOTAL STALLS PROVIDED

ACCESSIBLE STALLS REQUIRED - 1 VAN STALL

ACCESSIBLE STALLS PROVIDED - 1 VAN STALL

Page 1 of 1

#### EXISTING CHAIN LINK FENCE AND GATE TO REMAIN.

**KEY NOTES** 

- 2. EXISTING BUILDING TO REMAIN (NO WORK)
- 3. 20' WIDE FIRE TRUCK ACCESS LANE
- 4. EXISTING CONCRETE WALKWAY
- 5. EXISTING SAND PLAY AREA TO REMAIN. 6. EXISTING FIRE HYDRANT
- EXISTING BASKETBALL COURT.
- EXISTING BOYS AND GIRLS RESTROOM PER DSA A#03-112985. APPROVED BY CHANGE ORDER. SEE A1.04 FOR MODIFICATIONS TO STAFF RESTROOMS
- ACCESSIBLE PATH OF TRAVEL PER ACCESSIBILITY NOTE THIS SHEET
- 10. EXISTING AC PAVING TO REMAIN
- 1. EXISTING TURF TO REMAIN
- 12. EXISTING ACCESSIBLE HI/LOW DRINKING FOUNTAIN PER DSA APP 03-116574
- 13. RELOCATED PORTABLE BUILDING, FROM MFR. STOCKPILE, ON WOOD FOUNDATIONS WITH METAL RAMPS. INSTALL PER MFR. PC DRAWINGS
- 4. NEW AC PAVING AND BASKETBALL COURT STRIPING
- NEW ACCESSIBLE SITE ENTRY SIGN PER DETAIL
- 20' WIDE FIRE TRUCK ACCESS GATE WITH KNOX BOX PER LOCAL FIRE MARSHAL REQUIREMENTS
- 7. EXISTING ACCESSIBLE STAFF RESTROOMS PER DSA A#03-112985. SEE A1.04 FOR MODIFICATIONS TO STAFF RESTROOM
- NEW LOCATION FOR PREVIOUSLY APPROVED PORTABLE CLASSROOM - #03-116574, PER CCD,
- 19. EXISTING ACCESSIBLE PARKING STALL AND SIGNAGE PER DSA #03-112985
- 20. EXISTING 48" ACCESSIBLE GATE

### FLOOD ZONE INFO

ZONE X (0.2%)

06029C2281E

810

FLOOD ZONE DESIGNATION: F.I.R.M. PANEL DESIGNATION:

09 / 26 / 2008 EFFECTIVE DATE OF F.I.R.M:

BASE FLOOD ELEVATION (BFE): ~400 FT. COMMUNITY ORDINANCE SECTION: BMC 15.74.040

# LEGEND

INDICATES EXISTING BUILDING TO REMAIN (NO WORK)

INDICATES BUILDING UNDER THIS APPLICATION

INDICATES NEW AC PAVING

LOCAL FIRE AUTHORITY REVIEW

• • • • • • ACCESSIBLE PATH OF TRAVEL

Agency Approval Stamp:

IDENTIFICATION STAMP DIV. OF THE STATE\* ARCHITECT OFFICE OF REGULATION SERVICES 03+118272 ACMFFLS SS OL DATE NOV - 8 2017

FILE #: 15-6

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Ownership of Documents

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Professional Service is the property of

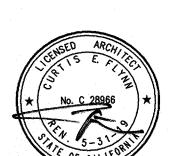
Integrated Designs by SOMAM Inc.

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any other project without written authorization.

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TRACKING #: 63321-292



**5268** 

CALIFORNIA WATER SERVICE To facilitate the Division of the State Architect's (DSA) approval of the FireLife Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01. chool District/Owner Bakersfield City School District Project Name/School Munsey Elementary Project Address 3801 Brave Ave, Bakersfield Ca. 93309 FA Agency Name: Kern County Fire Department LFA Reviewer Name: LARY WRIGHT Telephone Number: 661.391.7000 I have reviewed and responded to the applicable flows for this project as listed below. Note: Only sign this form when it is imaged only the site plan. A loose form is not acceptable to DSA. LFA Reviewer's Signature: ON Date: 6/
Reviewer's Signature: ON Date: 6/
Review Review "Y" = Complies with LFA requirements: "N" = Not approved (complies Section 8) "NA" = Not applicable to the project "NR" = LFA elects not to review Access roads, fire lane markings, puvers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5. Fire hydrant location and distribution complies with the California Fire Code (or see # 4). Fire hydrant location and distribution compiles with NFPA 1142, "Atternate Means." It "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the a location(s) of the proposed post indicator valve and fire department connection meet The location(s) of the detector check valve assembly meet the requirements of this is the project located in a hezard sevenity zone area? (CBC, Chapter 7A, Section 701A.) [] Yes [] No 

DEA 510 (rev 05-12-14) DIVISION OF THE STATE ARCHITECT

**MDSA** 

Sheet No.: A1.01

G:\2017frs\17-5268 Munsey Elementary Portables\Sheets\A1.01 OVERALL SITE PLAN.dwg RICHARD DELLANIN

DEPARTMENT OF GENERAL SERVICES

Total Flow Observed Available @20: 2273 5155

6/7/2017

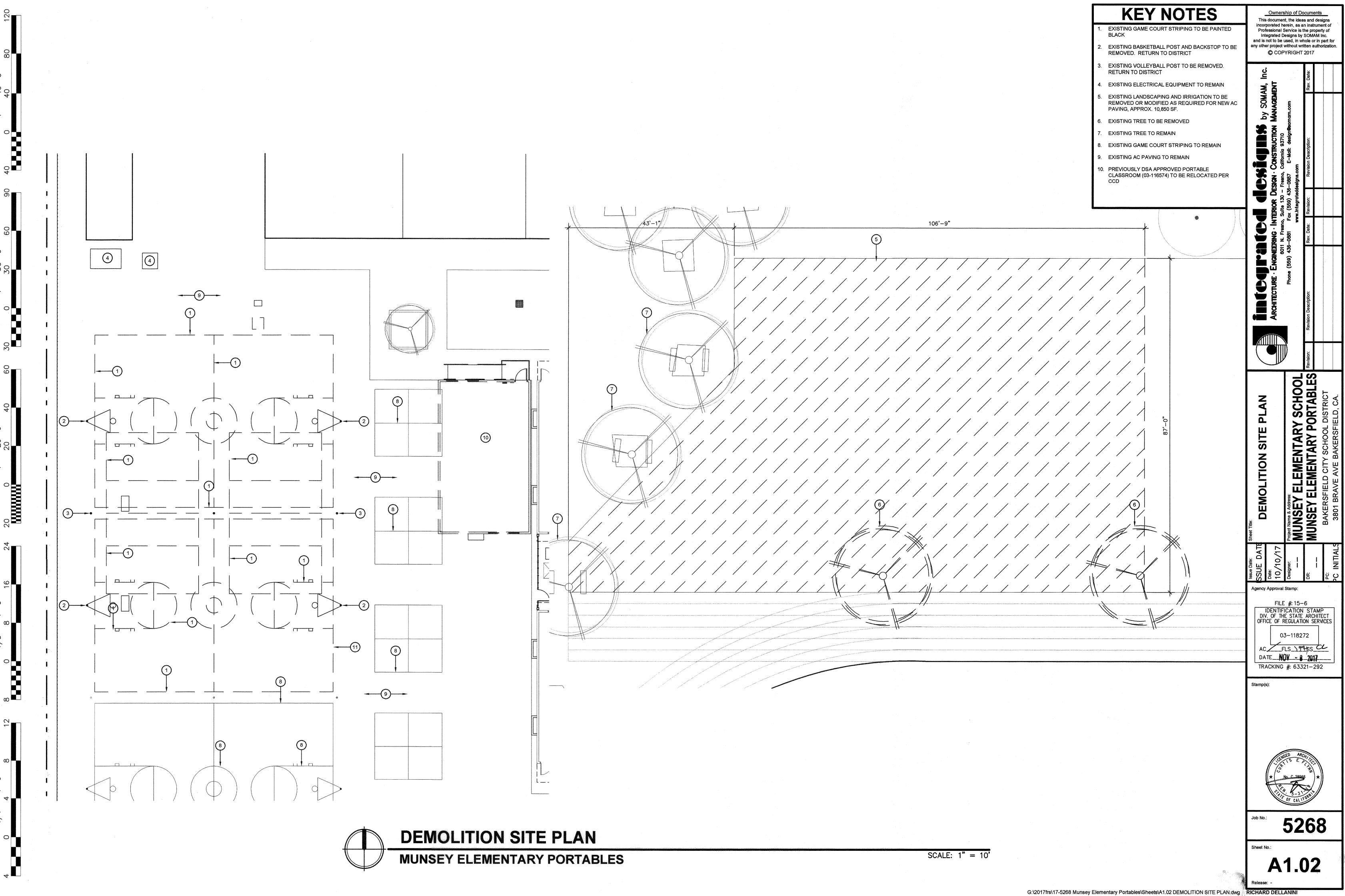
Remarks: 2280 GPM Static/Residual Location: FH# 3758 STINE RD/BIANCHI WAY 900' AWAY

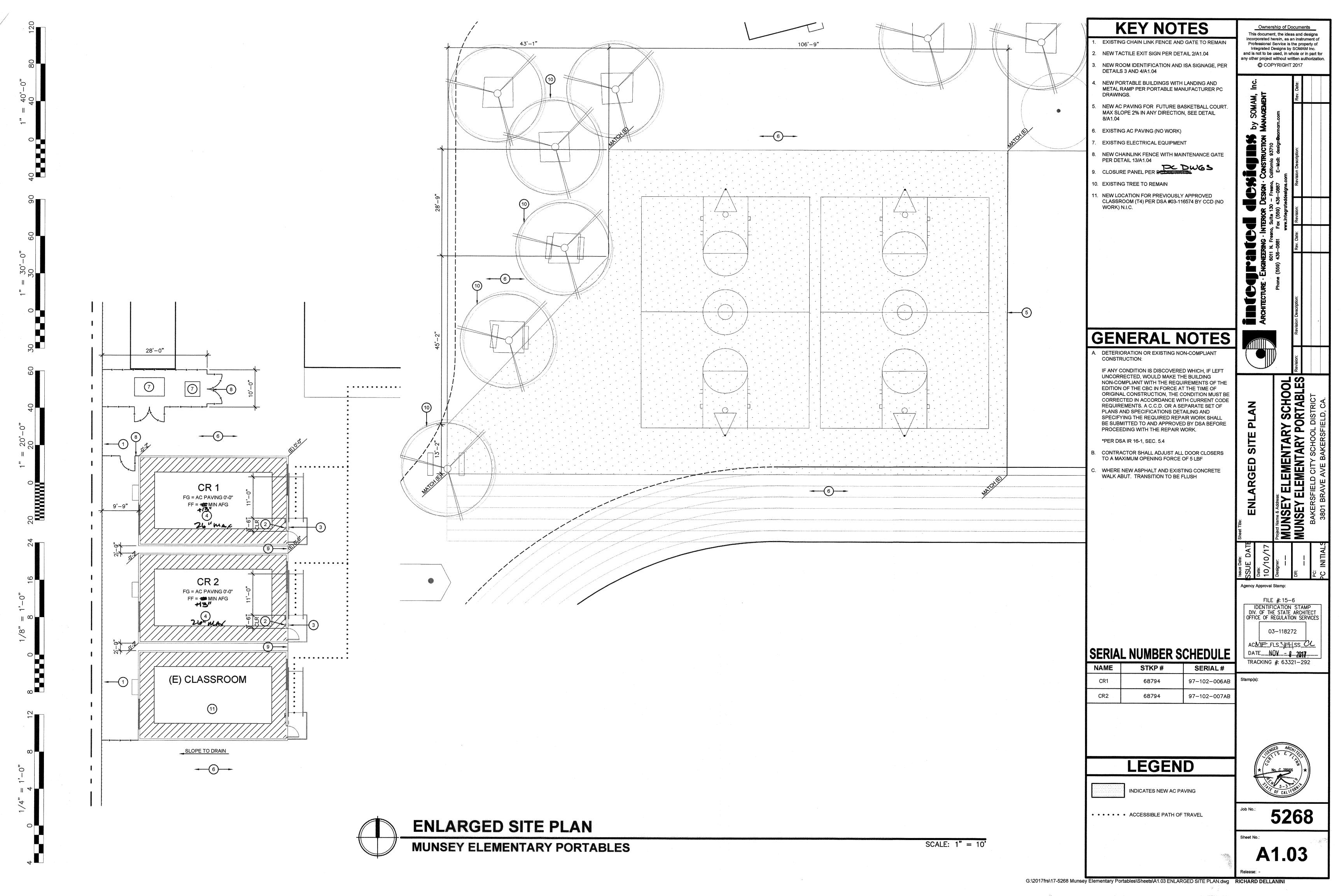
ocation 1 Hydrant #. 3716 Address: 3559 BELLE TERRACE WAY

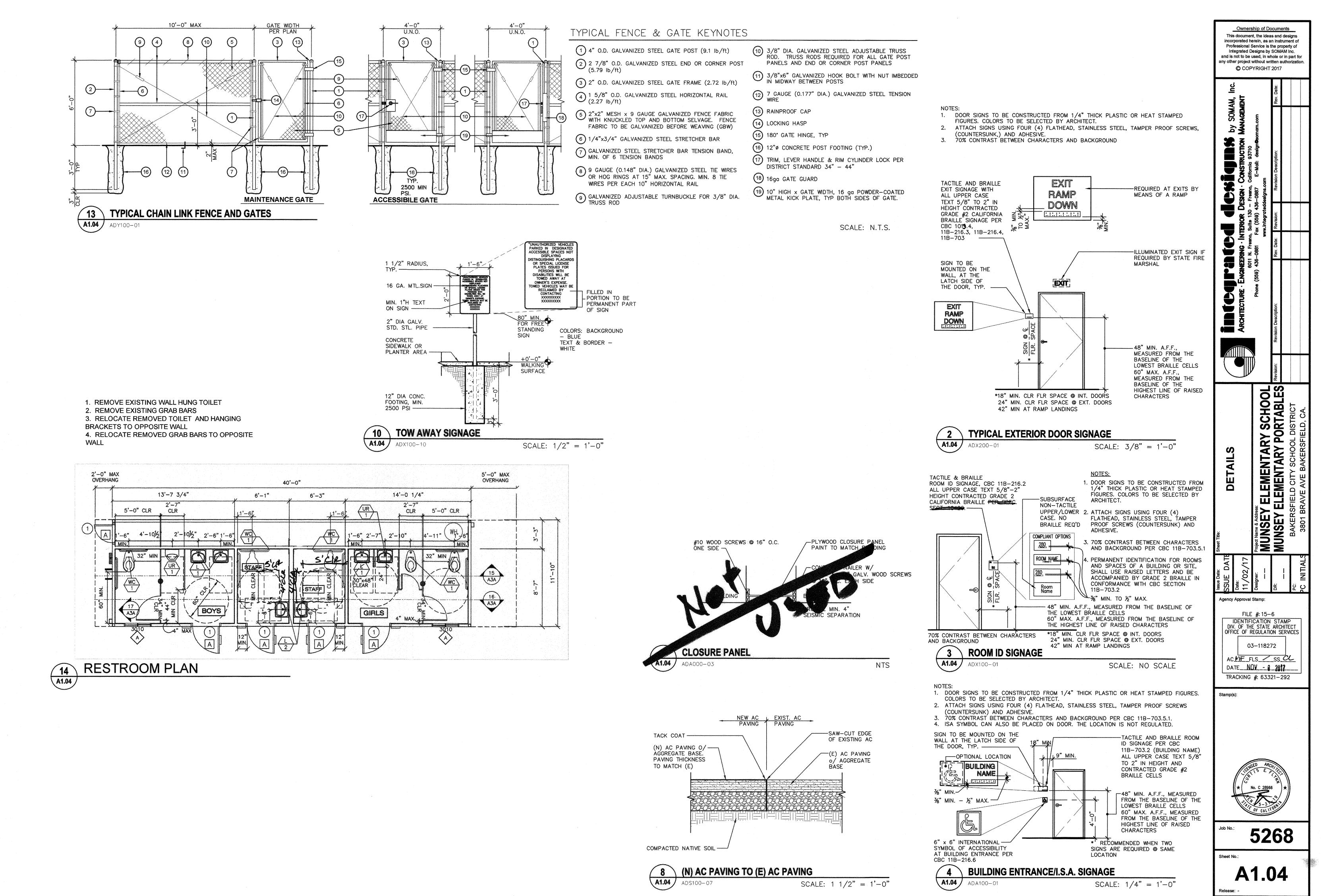
Regardless of the results of this test, California Water Service Company assumes no liability beyond that stated in the following excerpt from the P.U.C. Tariff Schedule: The utility (California Water Service Company) will supply only such water at such pressure as may be available from time to time as a result of its normal operation of the system.

2273 61

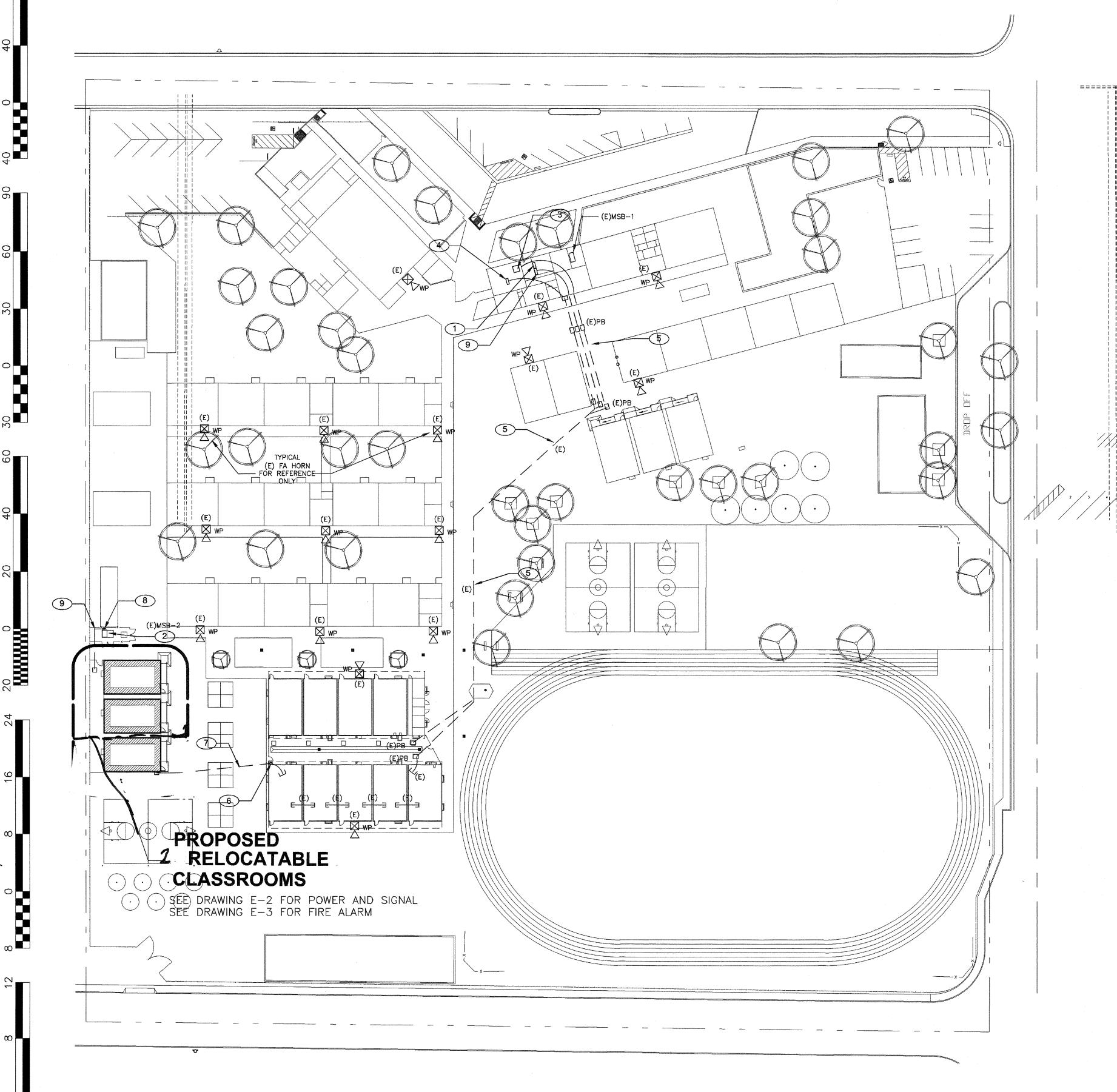
SCALE: 1'' = 40'







G:\2017frs\17-5268 Munsey Elementary Portables\Sheets\A1.04 DETAILS.dwg RICHARD DELLANINI



#### MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A. 1.26 AND ASCE 7-10 CHAPTER 13, 26

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.

  3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

# PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 12.6.8, 13.6.5.6 AND 2016 CBC, SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENT ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP MD PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #\_\_\_\_\_

MP MD PP

- OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL \_\_\_\_ AND CONNECTION LEVEL \_\_\_\_ FOR THE PROJECT AND CONDITIONS.

#### SHEET NOTES

- APPROXIMATE LOCATION OF EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL & VOICE EVACUATION PANEL TO REMAIN IN SERVICE. PROVIDE CONNECTION FOR NEW FIRE ALARM DEVICES PER PLANS, UPDATE NEW FIRE ZONE MAP. PROGRAM NEW DEVICES INFORMATION, MEASURE ACTUAL LOAD CURRENT AND VOLTAGE DROP FOR EACH NAC SIGNAL CIRCUITS, AND FACP STANDBY CURRENT AND ALARM CURRENT. SEND THE REPORT TO OWNER AND ENGINEER FOR REVIEW, AND PLASTIC LAMINATED ONE COPY INSIDE FACP
  - APPROXIMATE LOCATION OF EXISTING 800A MAIN SWITCHBOARD. REUSE EXISTING CIRCUIT BREAKERS PER PLANS. SEE SINGLE LINE DIAGRAM 1/E-4.
- APPROXIMATE LOCATION OF EXISTING PA/IC EQUIPMENT IN ADMIN OFFICE. INSTALL NEW SIGNAL CABLE AND PROVIDE CONNECTION FOR NEW SIGNAL DEVICES PER PLANS. EXISTING SPARE CABLE MAY BE REUSED. FIELD VERIFY.
- 4 APPROXIMATE LOCATION OF EXISTING DATA MDF SERVER EQUIPMENT IN ADMIN OFFICE. INSTALL NEW FIRE ALARM CABLE AND NEW DATA DEVICES PER PLANS.
- EXISTING SIGNAL CONDUITS PATHWAY, FOR REFERENCE ONLY. PULL BACK NEW CABLES PER PLANS. SEE RISER DIAGRAMS ON DRAWING E-4. CONTRACTOR SHOULD INCLUDE ALLOWANCE IN HIS BID PROPOSAL TO FIELD VERIFY EXACT LOCATION AND CONDITION AS REQUIRED.
- PROVIDE OUTDOOR SIGNAL TC 24"x24"x4" ON EXTERIOR WALL AT ATTIC LEVEL. CORE DRILL AND STUB (2)2"C INTO BUILDING ATTIC SPACE, PATCH AND SEAL EXTERIOR WALL AS REQUIRED. FIELD VERIFY LOCATION.
- 7 SAW CUT AND PATCH EXISTING FLOOR TO INSTALL (1)2"C COMM, (1)2"C SIGNAL, (1)1-1/2"C FA, (1)2"C SPARE.
- PROVIDE OUTDOOR PULL CAN 24"x24"x4" ON EXISTING MAIN SWITCHBOARD, FIELD VERIFY LOCATION, SEE SINGLE LINE DIAGRAM 1/E-4.
- 9 SAW CUT AND PATCH EXISTING FLOOR TO INSTALL (4)2"C POWER. SEE SINGLE LINE DIAGRAM 1/E-4.

(E) INDICATE EXISTING CONDUIT AND WIRING. FOR REFERENCE ONLY, FIELD VERIFY AS REQUIRED.

IGNEERING - INTERIOR DESIGN - CONSTRUCTION MANAGEMENT
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#### PROJECT NOTES

- A. EXISTING ELECTRICAL SERVICE HAS BEEN INVESTIGATE AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS
- B. SOURCE OF POWER HAS BEEN INVESTIGATED AND IS
- ADEQUATE FOR THE ADDITIONAL LOAD.

  C. SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING
- TEST
  D. CONTRACTOR TO MONITOR EXISTING FIRE ALARM SYSTEM IF IT IS INTERRUPTED OR DISCONNECTED.

SITE PLAN - ELECTRICAL

Ject Name & Address:

MUNSEY ELEMENTARY SCHOO

BAKERSFIELD CITY SCHOOL DISTRICT

3801 BRAVE AVE BAKERSFIELD CA

Issue Date:
00/00/17
Date:
06/05/17
Designer:
J CHONG
DR:
J CHONG

FILE #:\_

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03-118272

AC FLST-4 SS CL DATE NOV - 8 2017

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#### SEISMIC ANCHORAGE

TO COMPLY WITH 2016 CBC, TITLE 24, SECTION #1632A.
 WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD ENGINEER OF THE DIVISION OF THE STATE ARCHITECT.

#### CODE RULES AND REGULATIONS

ALL WORK AND MATERIAL SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHAL, THE CALIFORNIA ELECTRICAL CODE; THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY AND OTHER APPLICABLE STATE LAWS OR REGULATIONS. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARD 2016 CALIFORNIA FIRE CODE (CFC).

2016 TITLE 19 (CCR), PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

2016 NEPA 72 (CALIFORNIA AMENDED) — NATIONAL FIRE ALAR

2016 NFPA 72 (CALIFORNIA AMENDED) — NATIONAL FIRE ALARM CODES. POLICY #95-03, FIRE AND LIFE SAFETY, DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES.

#### U.S.A. - UNDERGROUND SERVICE ALERT CALL BEFORE YOU DIG: 1-800-642-2444

THE LOCATION OF EXISTING UNDERGROUND UTILITIES WERE TAKEN FORM SOURCES BELIEVED TO BE RELIABLE. HOWEVER, THEY HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THIS ENGINEER. THE CONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND

NOTIFY OWNER 72 HOURS PRIOR TO ANY EXCAVATION

JOHN CHONG ENGINEERING

| SAP N HELM AVE #109 FRESNO CA 93727
| (559) 325-9988 • FAX 297-940|
| FROFESSION |

jcengineer@aol.com

Job No.: **5268** 

E-1

SCALE : 1" = 40' - 0"

SITE PLAN - ELECTRICAL

## POWER AND SIGNAL PLAN

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

#### EXISTING PANEL A SCHEDULE SHOWN FOR REFERENCE ONLY

FIRE ALARM, EMERGENCY COMMUNICATIONS OR FIRE ALARM/ECS.

LOCATION OF CIRCUIT DISCONNECT (BREAKER) PERMANENTLY

IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.

EMT CONDUIT FOR INDOOR

RIGID STEEL COUPLING

RIGID STEEL CONDUIT WITH INSULATED TAP

RIGID STEEL ELBOW

RIGID STEEL COUPLING

RIGID STEEL CONDUIT FOR OUTDOOR

CONCRETE SLAB

CONTINUOUS WARNING TAPE

RIGID STEEL AND PVC TRANSITION COUPLING

UNDERGROUND PVC SCH. 40 CONDUIT

**UNDERGROUND CONDUIT RISER DETAIL** 

N.T.S.

SEE PC PLANS FOR ALL PANEL SCHEDULES 120/240V 1ø 3W PANEL A CLASSROOM FLUSH MOUNT 100 AMP MAIN BREAKER | SERIES 10K AIC | NEMA 1 GND AWG WA WB RECEPTACLES/CLOCK EXTERIOR LIGHT 1 4 FIRE ALARM BOOSTER PANEL FIRE SPRINKLER SWITCH AND UPDATE CIRCUIT DIRECTORY INSIDE PANEL PROVIDE ARC FLASH LABEL ON PANEL DOOR PROVIDE MECHANICAL LOCK ON BREAKER PROVIDE MECHANICAL LOCK ON BREAKER PER NFPA 72, 10.6.5.2: DEDICATED CIRCUIT, MECHANICALLY PROTECTED (LOCKOUT), RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, ID'D AS

#### FIRE ALARM SEQUENCE OF OPERATIONS MANUAL PULL STATION ALL (EXCEPT LISTED BELOW) PRIMARY FLOOR LOBBY ALL OTHER LOBBIES **ELEVATOR MACHINE ROOM** ELEVATOR SHAFT HEAT DETECTORS: ALL (EXCEPT LISTED BELOW) ELEVATOR MACHINE ROOM ELEVATOR SHAFT DUCT DETECTOR FIRE SPRINKLER WATERFLOW SWITCH FIRE SPRINKLER TAMPER SWITCH POST INDICATOR VALVE WIRING CONDITIONS: SIGNALING LINE CIRCUIT (SLC)-WIRE-TO-WIRE SHORT SINGLE OPEN SINGLE GROUND INITIATING DEVICE CIRCUIT (IDC)-WIRE-TO-WIRE SHORT SINGLE OPEN SINGLE GROUND NOTIFICATION APPLIANCE CIRCUIT (NAC XX WIRE-TO-WIRE SHORT SINGLE GROUND LOSS OF 120VAC POWER SIGNAL SILENCE RESET FACP NOTE: SOME SEQUENCE OF OPERATIONS SHOWN MAY NOT APPLY

#### SIGNAL AND COMM. LEGEND

SECURITY ALARM SYSTEM DIGITAL SECURITY ALARM CONTROL PANEL. MODEL SONITROL (64ZONE). INTERFACE WITH EXISTING BUILDING MASTER SECRITY ALARM PANEL AS REQUIRED. LCD KEYPAD - MATCH EXISTING EQUIPMENT AS REQUIRED. DUAL TECHNOLOGY CEILING MOUNT DETECTOR. MATCH EXISTING EQUIPMENT AS REQUIRED. EXTERIOR BELL (SIREN) - DSC#SD15W WITH WEATHERPROOF BACKBOX AND TAMPER SWITCH. DOOR CONTACT SWITCH. RECESS ABOVE DOOR JAMB AT OPEN SIDE. — B — INDOOR SECURITY ALARM CABLE. WEST PENN #241 --- B1 --- OUTDOOR SECURITY ALARM CABLE. WEST PENN #AQC224

COMMUNICATION (TELEPHONE/INTERCOM) SYSTEM HANDSET/IP PHONE - FIELD VERIFY MODEL NO. AND MATCH EXISTING MASTER EQUIPMENT AS REQUIRED. CEILING SPEAKER - RAULAND #US0221 W/ACC1401 BAFFLE. PROVIDE BACKBOX AND CEILING SUPPORT AS OUTDOOR SPEAKER - ATLAS #APF15 HORN W/XFMR AND LOWELL (#CB84 FOR SURFACE, #P875X FOR RECESS)

BACK BOX W/SQLK GRILL OUTDOOR TELE/IC CABLE. 22AWG SOILD COPPER 12 PAIR SHIELDED AND 12 PAIR UNSHIELDED CABLE. INDOOR TELEPHONE CABLE. CAT.3 22AWG SOILD COPPER 4UTP SHIELDED CABLE.

--- P1 --- OUTDOOR PA/IC CABLE - WEST PENN #AQC-369

DATA COMMUNICATION SYSTEM

DATA OUTLET - LEVITON CAT 6 (DUAL RECEPTACLE RED IN COLOR FOR ADMINISTRATIVE) DATA OUTLET - LEVITON CAT 6 (DUAL RECEPTACLE BLUE IN COLOR FOR INSTRUCTIONAL) FO FIBER OPTIC CABLE VIA INNER DUCT WITH J-HOOK IN ATTIC AND 2"C FOR OUTDOOR. SEE RISER DIAGRAM FOR --- C1 --- (ONE) CAT 6 22AWG 4UTP. SEE RISER DIAGRAM FOR

MODEL NO. - C2 - (TWO) CAT 6 22AWG 4UTP. SEE RISER DIAGRAM FOR

CONCRETE BOLT DOWN LID WITH

MANUFACTURE— BOLT SET

BONDING IS REQUIRED

FOR METAL CONDUITS

1. ALL SIGNAL CONDUCTORS CANNOT SPLICE INSIDE PULL BOX. CONDUCTOR MUST BE CONTINUE RUN BETWEEN SIGNAL DEVICES BACK BOX OR ABOVE GROUND TERMINAL CABINET. 2. IN CASE OF CONFLICT BETWEEN SIGNAL DEVICES CATALOG NUMBERS, DESCRIPTION SHALL PREVAIL.

FINISHED GRADE -

- TYPICAL EXTENSION

6" COARSE GRAVEL SUMP

N.T.S

QUANTITY AS REQ'D

BY DEPTH. (MIN. ONE) - 2" THICK CONCRETE SLURRY FLOOR

NEW FIRE ALARM SIGNAL & VOICE BOOSTER POWER. PROVIDE 110V DEDICATE CIRCUIT AND CONNECTION TO PANEL A CIRCUIT #E-12. PROVIDE LOCKING DEVICE ON CIRCUIT BREAKER AND RED MARKER ON PANEL DOOR. SEE

SHEET

PANEL SCHEDULE. PROVIDE POWER CONNECTION FOR RELOCATABLE BUILDING PRE-WIRED PANEL. SEE SINGLE LINE DIAGRAM ON DRAWING

NEW SECURITY ALARM PANEL AND SYSTEM, PROVIDE 110V POWER CONNECTION AND INTERCONNECTION TO (E) MASTER EQUIPMENT IN ADMIN OFFICE. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO

PROVIDE #6 COPPER GROUNDING CONDUCTOR AND BOND TO EACH STRUCTURAL STEEL BEAM, FIELD VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR PRIOR TO

INSTALLATION. SEE RISER DIAGRAM 5/E-4.

24"X24"X4" NEMA2R SIGNAL TC SURFACE MOUNT ON BUILDING EXTERIOR WALL WITH (2)2"C STUB INTO BUILDING

NEW IDF AND CABINET SURFACE MOUNTED BELOW CEILING. PROVIDE 110V POWER CONNECTION, DATA SWITCH, FO CABLE AND DATA CABLE PATCH PANEL FOR NEW DATA OUTLET CONNECTION. PROVIDE FO CABLE TO (E) MDF IN ADMIN OFFICE FOR INTERCONNECTION. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM.

DATA AND POWER OUTLET AT CEILING FOR SMART BOARD. FIELD VERIFY EXACT LOCATION AND REQUIREMENT WITH OWNER PRIOR TO INSTALLATION. SEE RISER DIAGRAM.

EXISTING 800A SERVICE PANEL, PROVIDE POWER CONNECTION FOR NEW BUILDING PANEL PER PLANS. SEE SINGLE LINE DIAGRAM 1/E-4.

PROVIDE OUTDOOR PULL CAN 24"x24"x4" ON EXISTING MAIN SWITCHBOARD. FIELD VERIFY LOCATION. SEE SINGLE LINE DIAGRAM 1/E-4.

SAW CUT AND PATCH EXISTING AC PAVING TO INSTALL UNDERGROUND POWER CONDUITS. PATCH BACK TO MATCH EXISTING. SEE SINGLE LINE DIAGRAM 1/E-4.

SAW CUT AND PATCH EXISTING AC PAVING TO INSTALL (1)2"C COMM, (1)2"C SIGNAL, (1)1-1/2"C FA, (1)2"C SPARE. PATCH BACK TO MATCH EXISTING. SEE RISER DIAGRAMS ON E-4.

PROVIDE 2"C FLEX WP CONDUIT BETWEEN BUILDING IN ATTIC SPACE FOR SIGNAL WIRING RACEWAY. CORE DRILL AND SEAL EXTERIOR WALL AS REQUIRED. SEE DETAIL

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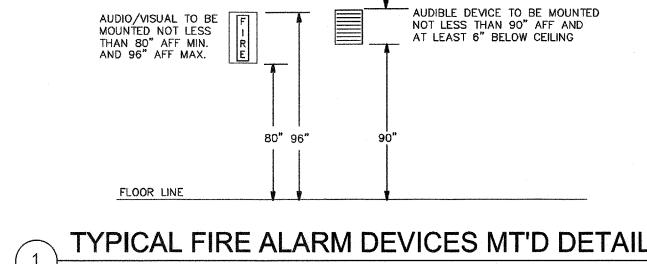
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#### SEISMIC ANCHORAGE

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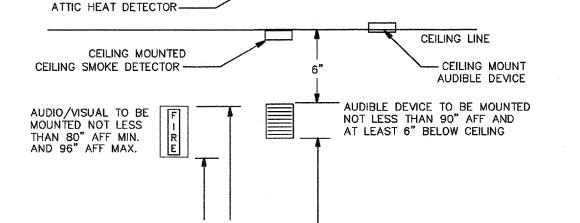
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WHERE PULL BOX IS LOCATED WITH IN 30" OF A FOUNDATION OR SIDE

WALK, PULL BOX SHALL BE SET FLUSH WITH THE ADJACENT SURFACE, MOW STRIP CONCRETE SHALL BE POURED FLUSH WITH FOUNDATION OR SIDE WALK.

3 PULL BOX AT OPEN YARD DETAIL



FACP EXISTING FACP 7165-0410: 0159 +60" EQUIPMENT (FOR REFERENCE ONLY) #FIRENET 4127 6911-0410:0176 **EQUIPMENT** VOICE EVACUATION PANEL +60" #EVAX 50 CABINET (FOR REFERENCE ONLY) NAC SIGNAL & VOICE VAC BOOSTER PANEL 6911-0785: 0157 EQUIPMENT +60" CABINET SIGNAL EXPENDER SPEAKER STROBE 4"SQ X 2 1/2"D 7320-0410:0195 +80" 15cd 30cd 75cd 110cd WP OUTDOOR SPEAKER

WITH WEATHER PROC 7135-0410: 0187 7300-0410: 0189 WITH WEATHER PROOF BOX #WHE 24WR 4"SQ X 2 1/2"D +80" 7300-0410:0132 | CEILING | 4"SQ X 2 1/2"D 7272-0410:0173 #ALK-V CEILING SMOKE DETECTOR #YBN-NSA-4 WITH BASE ATTIC HEAT DETECTOR ATTIC 4"SQ X 2 1/2"D 7270-0410: 0119 190°F TEMP WITH BASE #DFE 190°/HSC-XXXL AND MONITOR MODULE #FRCME-4 7300-0410:0150 FIRE ALARM CABLE WEST SEFFESS 7161-0859:0101 POWER LIMITED END OF LINE LAST 4"SQ X 2 1/2"D RESISTOR DEVICE **VOLTAGE DROP CALCULATION** WORST CASE VOLTAGE DROP AT THE LAST DEVICE

FIRE ALARM SYMBOLS AND SCHEDULE

CSFM NUMBER | MOUNT | BACK BOX

VD	=	VOLTAGE	DROP
1	-	TOTAL LC	MΔĎ

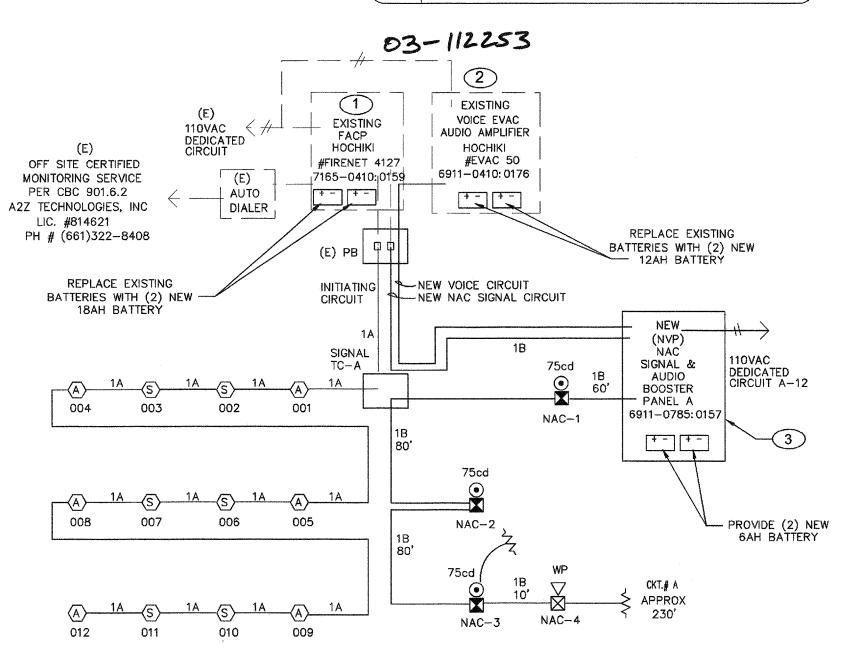
= DISTANCE TO THE LOAD CM = CIRCULAR MILLS (CROOS SECTION OF 12 AWG = 6530) V = VOLTAGE (24vdc)

VD = K \* I \* 2L

	Ü	M					
SIGNAL CKT ND.	AMPERES	APPROX LENGTH	RESISTIVITY	WIRE AWG	AREA CM	VOLTS DROPPED	% VOLT: DROP
CKT.# A STROBE	0.521A	550,	21.6	12	6530	0.396∨	1.7%
CKT.# A SPEAKER	0.040A	530,	21.6	12	6530	0.030∨	0.1%

	FA CABLE SCHEDULE
TYPE	DESCRIPTION
Α	INITIALING CIRCUIT CABLE 2#16 AWG SOLID COPPER PVC JACKET POWER LIMITED FPLR CABLE, FOR INDOOR AND OUTDOOR VIA MIN. 3/4" CONDUIT INSTALLATION

NAC SIGNAL CIRCUIT CABLE 2#12 AWG SOLID COPPER PVC JACKET POWER LIMITED FPLR CABLE, AND SPEAKER CIRCUIT CABLE 2#16 SHIELDED COPPER PVC JACKET POWER LIMITED FPLR CABLE FOR INDOOR AND OUTDOOR VIA MIN. 3/4" CONDUIT INSTALLATION



#### NOTES:

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

- 1. RISER DIAGRAM IS DIAGRAMMATIC. SEE FIRE ALARM FLOOR PLAN AND FIELD VERIFY EXACT ROUTING AS REQUIRED. 2. ALL INTERIOR FIRE ALARM CONDUCTORS ARE INSTALLED IN EMT CONDUIT AND CONCEAL ABOVE CEILING OR INSIDE WALL WITH 3/4"C.
- 3. FIRE ALARM CONDUCTOR CANNOT SPLICE INSIDE PULL BOX, CONDUCTOR MUST BE CONTINUE RUN BETWEEN FIRE ALARM DEVICES BACK BOX OR TERMINAL CABINET.

#### FIRE ALARM RISER DIAGRAM

N.T.S

#### **BATTERY POWER CALCULATIONS** 3 NEW NAC SIGNAL & VOICE BOOSTER PANEL A

הבעומר	NO. OF	CURRENT PI	ER DEVICE	STANDBY	ALARM
DEVICE	DEVICE	STANDBY	ALARM	CURRENT	CURRENT
UNIT	1	0.120A	0.9A	0.120A	0.9A
OUTDOOR SPEAKER	1		0.050A		0.050A
VISUAL 15cd	0		0.041A		0.000A
VISUAL 30cd	0		0.063A	<del></del>	0.000A
AUDIO/VISUAL 15cd	0		0.093A	***	0.000A
AUDIO/VISUAL 30cd	0	·	0.114A		0.000A
AUDIO/VISUAL 75cd	3	mante ettera	0.157A		0.471A
AUDIO/VISUAL 110cd	0		0.197A		0.000A
SYNC MODULES	0		0.035A	***	0.000A
1/4W SPEAKER	3		0.010A		0.030A

3		0.010A		0.030A
	SUB-TOTA	L	0.120A	1.451A
7				

<u>0.363AH</u>

<u>1.379AH</u>

<u>1.348AH</u>

3.243AH SUBTOTAL -----<u>0.649AH</u> 20% SAFETY FACTOR -----3.892AH TOTAL AMPS-HRS REQUIRED PROVIDE BATTERY WITH (2) NEW 12AH BATTERY

DURING THE FINAL TESTING, MEASURE EXACT STANDBY AND ALARM CURRENT, VOLTAGE DROP FOR EACH SIGNAL CIRCUITS. SEND OWNER AND ENGINEER ONE COPY RECORD FOR REVIEW, AND PLASTIC LAMINATED ONE COPY INSIDE

24 HOUR STANDBY CURRENT

15 MINUTE ALARM CURRENT (0.25 HR)

#### **BATTERY POWER CALCULATIONS**

EXISTING FIRE ALARM CONTROL PANEL (FACP) IN EXISTING ADMIN BUILDING

	N LAIS	HING YDIN	ווע טטובטוו	10	
DEVICE	NO. OF	CURRENT P	ER DEVICE	STANDBY	LED
DEVICE	DEVICE	STANDBY	LED	CURRENT	CURRENT
EXISTING ESTIMATE LOAD	1			0.25A	3.5A
NEW SMOKE DETECTOR	6	0.0003A	0.0065A	0.0018A	0.039A
NEW HEAT DETECTOR	6	0.0003A	0.0065A	0.0018A	0.039A
		SUB-TOTA	<b>\L</b>	0.2536A	3.578A
24 HOUR STANDS 15 MINUTE LED C		• •			6.000AH <u>0.895AH</u>
		SUBTO	TAL		6.895AH

TOTAL NEW AMPS-HRS REQUIRED 8.274AH REPLACE EXISTING BATTERIES WITH (2) NEW 18AH BATTERIES

20% SAFETY FACTOR -----

#### BATTERY POWER CALCULATIONS

EXISTING AUDIO AMPLIFIER NOTIFIER#DVC IN EXISTING ADMIN BUILDING

DEV/205	NO. OF	CURRENT P	ER DEVICE	STANDBY	ALARM
DEVICE	DEVICE	STANDBY	ALARM	CURRENT	CURRENT
EXISTING UNIT	1	0.130A	1.000A	0.130A	1.000A
NEW BOOSTER PNL	1	0.130A	1.000A	0.130A	1.000A
		SUB-TOTA	AL	0.260A	2.000A
24 HOUR STANDS		• •			6.240AH 0.500AH
15 MINUTE ALARM	CORREN	SUBTO	ιΤΔΙ		6.740AH

20% SAFETY FACTOR -----

REPLACE EXISTING BATTERY WITH (2) NEW 12AH BATTERIES

TOTAL NEW AMPS-HRS REQUIRED

CANDELLA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL

#### F.A. MONITORING NOTES

THE AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM. SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND AMENDED EITHER UUFX OR UUJS BY UNDERWRITERS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BY ARRANGED BY

#### COMPLETE AUTOMATIC FIRE **ALARM PLAN SUBMITTAL**

- THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.
- THE AUTOMATIC FIRE ALARM SYSTEM SHALL COVER ALL ROOMS AND AREAS AND UPON ACTIVATION OF AN INITIATING DEVICE ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION. (EXCEPTION: SMOKE DETECTORS ARE NOT REQUIRED IN NON-ACCESSIBLE AREAS AS DEFINED IN EMERGENCY EXPRESS TERMS OF PROPOSED S.F.M. AMENDMENTS TO 2016 C.F.C. SECTION 210 (C.F.C. SECTIONS 1006.2.4.2.2.1.1 AND 1006.2.4.2.2.1.5)

#### NOTES SHEET

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OFFICE OF REGULATION SERVICES

03-118272

DATE NOV - 8 2017

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- EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL IN ADMIN OFFICE TO REMAIN. PROVIDE CONNECTION TO NEW FIRE ALARM DEVICES PER PLANS, UPDATE NEW FIRE ZONE MAP AND PROGRAM NEW DEVICES INFORMATION, MEASURE ACTUAL LOAD CURRENT AND VOLTAGE DROP FOR EACH NAC SIGNAL CIRCUITS, AND FACP STANDBY CURRENT AND ALARM CURRENT. SEND THE REPORT TO OWNER AND ENGINEER FOR REVIEW, AND PLASTIC LAMINATED ONE COPY INSIDE FACE
- EXISTING EMERGENCY VOICE EVA PANEL IN ADMIN OFFICE TO REMAIN. FIELD VERIFY LOCATION. PROVIDE NEW VOICE CIRCUITS TO NEW BUILDING VIA NEW SIGNAL AND VOICE
- BOOSTER COMBO PANEL PER PLANS. NEW FA NAC SIGNAL AND AUDIO BOOSTER PANEL-A. PROVIDE 110V DEDICATED CIRCUIT FROM PANEL A CIRCUIT
- PROVIDE 1"C FLEX WP CONDUIT BETWEEN BUILDING IN ATTIC SPACE FOR FA WIRING RACEWAY. CORE DRILL AND SEAL EXTERIOR WALL AS REQUIRED. SEE DETAIL 3/E-4.
- 24"X24"X4" NEMA2R SIGNAL TC SURFACE MOUNT ON BUILDING EXTERIOR WALL WITH (2)2"C STUB INTO BUILDING
- SAW CUT AND PATCH EXISTING AC PAVING TO INSTALL(1)1-1/2"C, PULL BACK NEW FA CABLE TO EXISTING FACP AND VOICE PANELS IN ADMIN OFFICE. PATCH BACK TO

#### F.A SYSTEM SCOPE OF WORK

- PROVIDE AUTOMATIC FIRE ALARM SYSTEM AND DEVICES FOR THE NEW BUILDINGS PER PLANS.
- INSTALL NEW SIGNAL & VOICE COMBO BOOSTER PANEL AND ASSOCIATED CIRCUITS AND FA DEVICES.
- EXISTING FACP IN ADMIN. OFFICE IS 24VDC ADDRESSABLE, AND CLASS B WIRING SYSTEM. AND WITH OFF SITE MONITORING SERVICE VIA AUTO DUAL LINE DIALER AND TELEPHONE LINES.
- DURING THE FINAL TESTING, MEASURE ALL FIRE ALARM CURRENTS, VOLTAGE DROP FOR EACH SIGNAL CIRCUITS. SEND OWNER AND ENGINEER ONE COPY RECORD FOR REVIEW, AND PLASTIC LAMINATED ONE COPY INSIDE FACP CABINET DOOR.

#### FIRE ALARM NOTES

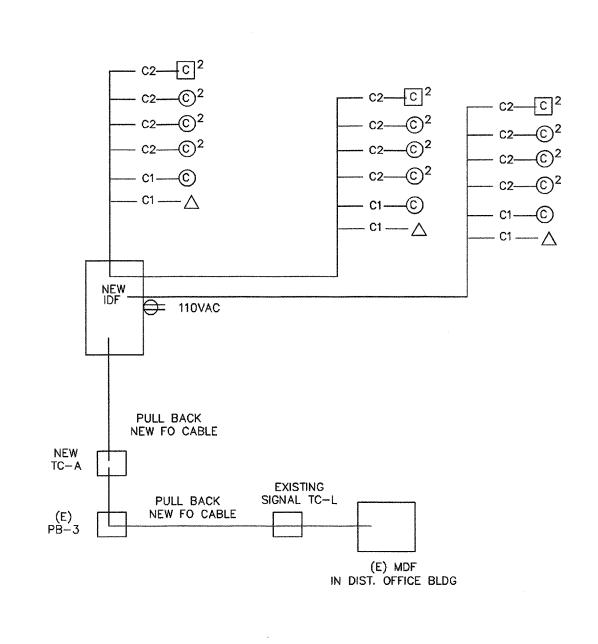
- APPLICABLE STANDARD 2016 NFPA 72 INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
- COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THI PRESENCE OF A DSA PROJECT INSPECTOR
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OF
- RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR
- PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE
- IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR
- BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL
- AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 1 DECIBELS (Dba) AVOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 Dba ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEASE 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIAVLE SPACE WITHIN THE BUILDING.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15
- BE SYNCHRONIZED. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN 6) PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH
- JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE
- RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. 19) FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE
- SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS.
- LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF

THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE

- COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1. CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED
- WITH THEIR BOTTOMS MOUNTED AT 48" THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
- SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.



5268



THREE MULTIMODE PAIRS (SIX STRANDS) AND THREE SINGLE-MODE PAIRS (SIX STRANDS) BERK-TEK OM3 OF EQUAL

CAT 6A CABLE BERK-TEK CAT. 6A

CABLE TESTING ALL FIBER OPTIC CABLE MUST BE TESTED TO SUPPORT 1000BASE-FX FULL DUPLEX STANDARDS, ALL CAT 6A CABLE MUST BE TESTED TO SUPPORT 100BASE-TX. TEST RESULTS ARE TO BE PROVIDED TO OWNER I.T MANAGER FOR REVIEW AND APPROVAL.

IDF SWITCH EQUIPMENT CISCO WS-C29XXX-24 W/ WS-C5484 GBIC (CONFIRM WITH OWNER)

CISCO WS-C2950-24 (CONFIRM WITH OWNER) HUBBLE RE4X OR EQUÀL ALLEN TEL AT55—16 OR EQUAL CABINETS

ALLEN TEL AT30-2-09 OR EQUAL ALLEN TEL ATPNL-48 OR EQUAL PATCH PANEL

LABELING IDIENTICATION

ALL INSTALLED EQUIPMENT, CABLES, TERMINATIONS, ETC. WILL BE PERMANENTLY AND UNIQUELY MARKED. CABLES WILL BE MARKED USING A CONVENTION THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION. LAN TERMINATIONS WILL SIMILARLY BE MARKED TO UNIQUELY IDENTIFY THEM WHILE PROVIDING THE SOURCE AND DESTINATION OF CABLE. IDENTIFICATIONS MUST BE SUCH THAT THEY WILL NOT RUB OFF, FALL OFF, OR EASILY BREAK AWAY.

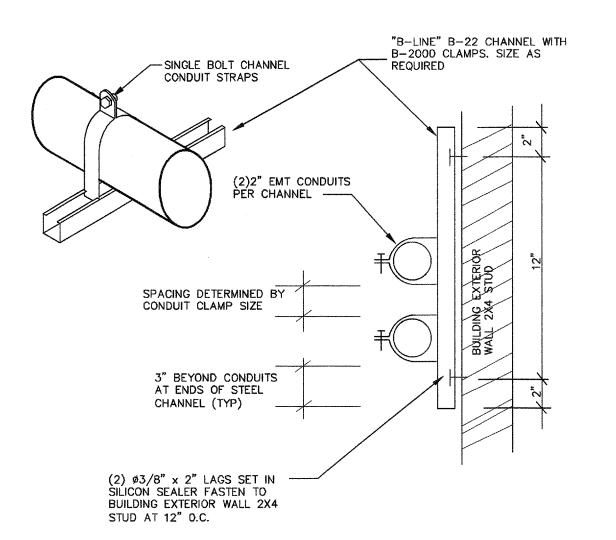
1. CONTRACTOR TO PROVIDE ALL EQUIPMENT, PATCH CABLE AND ACCESSORY FOR A FULLY FUNCTIONAL SYSTEM.

- 2. NEW DATA JACK WIRING CONFIGURATION MUST BE MATCHED EXISTING SYSTEM. FIELD VERIFY PRIOR TO
- 3. ADMINISTRATIVE NODE TO BE RED IN COLOR WITH THE INSTRUCTIONAL NODE TO BE BLUE IN COLOR, NODE LOCATION MUST BE 12" WITHIN POWER RECEPTACLE AND FIELD VERIFY EXACT LOCATION WITH OWNER PROJECT COORDINATOR OR TECHNOLOGICAL SERVICES PERSONNEL PRIOR TO INSTALLATION.
- 4. ALL EQUIPMENT DOCUMENTATION AND WARRANTY CARDS WILL BE PROVIDED TO OWNER FOR FILING WITH MANUFACTURERS UPON COMPLETION OF INSTALLATION.

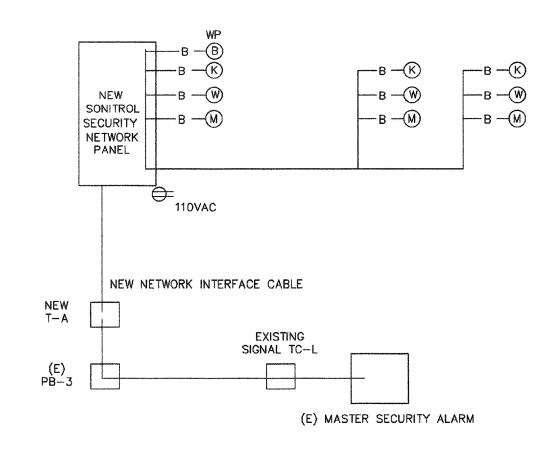


DATA COMMUNICATION SYSTEM RISER DIAGRAM

N.T.S

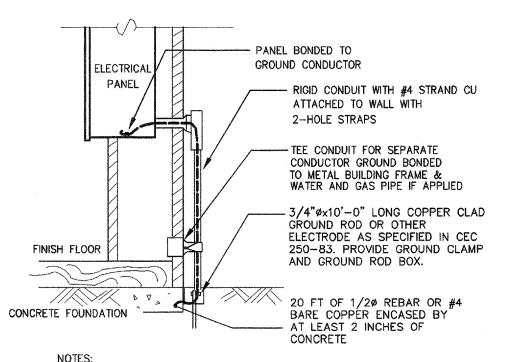


CONDUIT SUPPORT DETAIL - NEW BID N.T.S



SECURITY ALARM SYSTEM RISER DIAGRAM

N.T.S



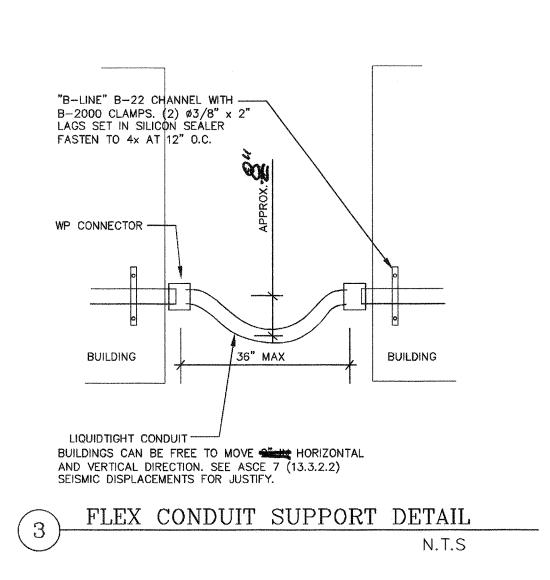
1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-66. 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME PER CEC 250-50. IN ADDITION TO THE DETAIL SHOWN ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT

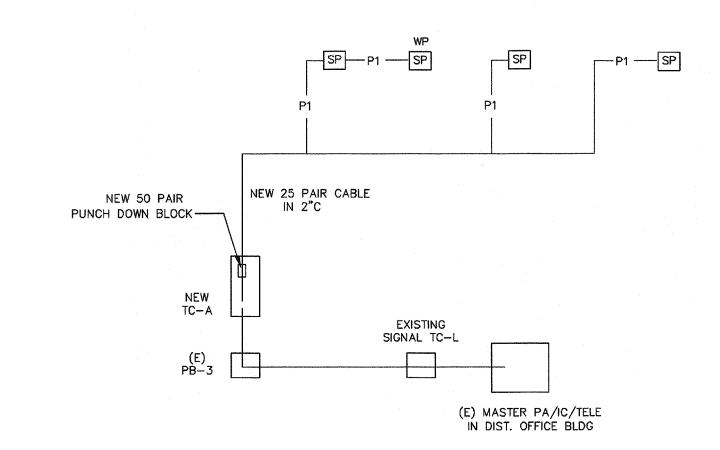
- LEAST 10 FT. IN SOIL IF AVAILABLE (CEC 250-50, 250-82) 3. ALL MADE OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER, BOND TO HAND RAIL AND WATER PIPE IF APPLIED. (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
- OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250-84). 5. FIELD INSPECTOR SHALL WITNESS GROUNDING TEST.

4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEED 25

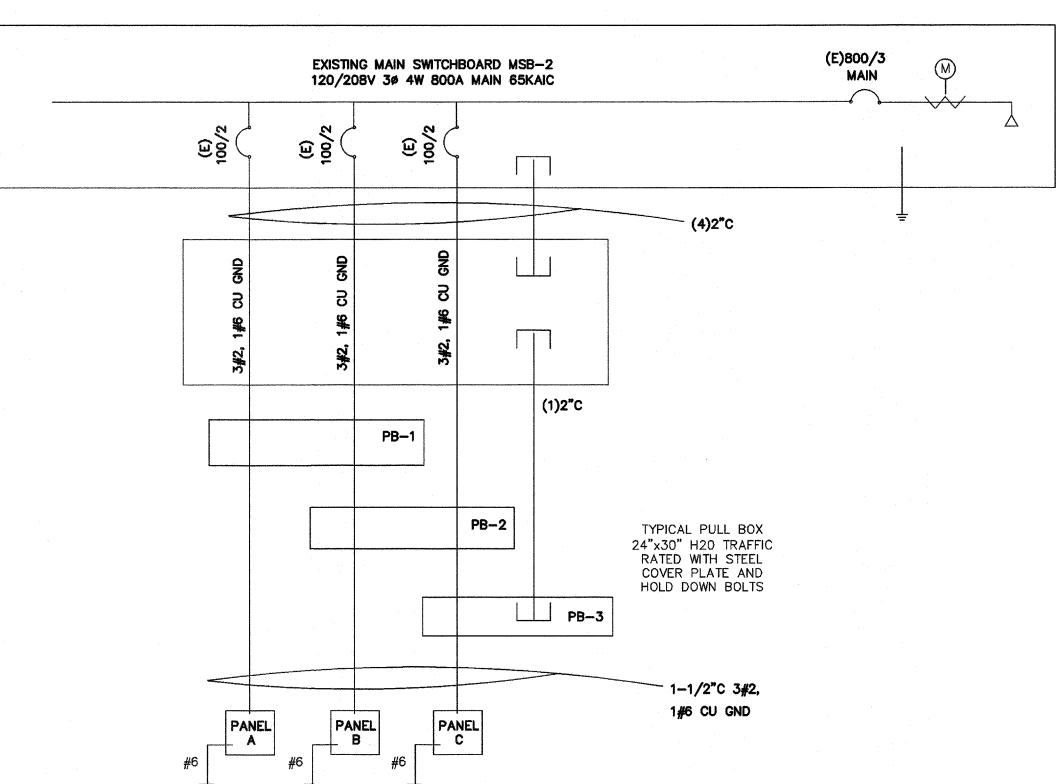
GROUNDING DETAIL

N.T.S





PA/IC/TELE SYSTEM RISER DIAGRAM N.T.S



1. ALL EXISTING PANELS AND FEEDERS TO REMAIN.

NOTES:

2. ALL NEW CONDUCTOR SHALL BE 75°C THWN-2 COPPER IN CONDUIT. (AMPACITY FOR CONDUCTOR SELECTION MUST BE DETERMINED/DERATED BY THE ALLOWED TERMINATION RATINGS MARKED/APPROVED ON EACH DEVICES, MOTOR, APPLIANCE, XFMR O.C.P.C. PANEL, ETC. CONDUCTORS INSTALLED IN U.G OR WET LOCATIONS SHALL BE MARKER 'W'. PER 2016 CEC 110-14(C)(1).)

ALL WIRING OVER 100 VOLT SHALL BE INSTALLED IN RACEWAY CONDUIT, EMT ABOVE GRADE, PVC SCH. 40 BELOW GRAD AND STEEL CONDUIT ON EXPOSE SURFACE BELOW 8' AFF. FOR PHYSICAL PROTECTION.

DIAGRAM PRIOR TO WORKING, AND REPORT TO ENGINEERS IF ANY DISCREPANCY ARE FOUND.

MC CABLE WITH SEPARATE GROUND CONDUCTOR CAN BE USED IN CEILING AND CONCEAL IN WALL. STEEL BACK BOX SHALL BE PROVIDE FOR ALL NEW ELECTRICAL DEVICES SUCH AS SWITCH, OUTLET AND CONDUCTOR SPLICE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING SWITCHBOARD AND PANELS ARE INSTALL PER ONE LINE

SINGLE LINE DIAGRAM

N.T.S



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#### SECTION 16000 ELECTRICAL WORK

#### PART 1: GENERAL

THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS SHALL APPLY TO ALL WORK OF

#### 1-01 SCOPE OF WORK:

- A. THIS PORTION OF THE WORK INCLUDES THE FURNISHING OF ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE WIRING SYSTEM TO OUTLETS AND ALL EQUIPMENT SHOWN ON THE DRAWINGS OR COVERED BY THIS SECTION OF THE SPECIFICATIONS.
- COMPLETE SYSTEM OF BRANCH CIRCUIT WIRING AND EQUIPMENT FOR LIGHTS, PLUGS AND POWER.
- 2. FURNISH AND INSTALL POWER PANEL, FIXTURES, LAMPS, WALL SWITCHES AND CONVENIENCE OUTLETS.
- 3. ALL HANGERS, ANCHORS, SLEEVES, CHASES AND SUPPORTS FOR FIXTURES, ALL ELECTRICAL EQUIPMENT MATERIALS.
- 4. FURNISH, INSTALL AND CONNECT SWITCHES ETC., REQUIRED FOR EQUIPMENT COVERED BY OTHER SECTIONS OF THESE SPECIFICATIONS.
- 5. PROVISION OF FIRE ALARM SYSTEM PER PLANS.

#### 1-02 WORK NOT INCLUDED:

A. THE FOLLOWING WORK SHALL BE DONE UNDER THE HEATING AND VENTILATING SECTION OF THE SPECIFICATIONS. FURNISH CONTROL EQUIPMENT (THE LOW VOLTAGE CONTROL AND INTERLOCK; FURNISH AND INSTALL MOTORS).

#### 1-03 RULES AND REGULATIONS:

A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST AND REGULATIONS OF THE STATE FIRE MARSHAL; TITLE 24, PART 3; THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY; THE CALIFORNIA ELECTRICAL CODE; AND OTHER APPLICABLE STATE LAWS OR REGULATIONS. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

#### 1-04 EXAMINATION OF SITE AND PLANS:

- A. BEFORE SUBMITTING A PROPOSAL, EACH BIDDER SHALL CAREFULLY EXAMINE THE ELECTRICAL, DRAWINGS AND SPECIFICATIONS. HE SHALL ALSO VISIT THE SITE AND FULLY INFORM HIMSELF AS TO ALL EXISTING CONDITIONS AND LIMITATIONS APPLYING TO THE WORK.
- B. IF, AFTER SUCH EXAMINATION AND STUDY, IT APPEARS THAT ANY CHANGE FROM THE DRAWINGS AND SPECIFICATIONS SHALL BE ALLOWED, THE BIDDER SHALL SO STATE IN WRITING TOGETHER WITH ANY CHANGE IN COST INVOLVED.
- C. BY THE ACT OF SUBMITTING A PROPOSAL, EACH BIDDER SHALL BE DEEMED TO HAVE MADE SUCH EXAMINATION OF THE DRAWINGS AND PREMISES, AND IT WILL BE ASSUMED THAT HE IS THEREFORE FAMILIAR WITH AND ACCEPTS, AND HAS BASED HIS PROPOSAL UPON SUCH EXISTING CONDITIONS AND LIMITATIONS APPLYING TO THE WORK.

#### 1-05 WORKMANSHIP AND MATERIALS:

- A. ALL WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND CARRIED OUT IN A MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE ARCHITECT. ALL WORKMEN EMPLOYED IN MAKING THE INSTALLATION SHALL BE SKILLED IN THEIR PARTICULAR TRADES.
- B. ALL MATERIALS, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KINDS, FREE FROM ALL DEFECTS OF THE MAKE, PROVIDED. THIS SHALL APPLY TO ALL PARTS OF THE WORK WHETHER OR NOT THIS PARTICULAR PARAGRAPH IS REFERRED TO BY NUMBER.
- C. ALL APPARATUS, CONDUIT SYSTEMS, ETC., SHALL BE INSTALLED AND INTERCONNECTED SO AS TO FORM COMPLETE SYSTEMS AS HEREIN PROVIDED AND SHOWN ON THE ACCOMPANYING DRAWINGS, THE DRAWINGS FURNISHED BY THE ARCHITECT TO SUPPLEMENT AND EXPLAIN THOSE ACCOMPANYING THESE SPECIFICATIONS.
- D. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE COMPLETE WORKING SYSTEMS, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN FURNISHED BY OTHER CONTRACTORS.

#### PART 2: PRODUCTS

#### 2-01 <u>SERVICE</u>:

A. EXISTING POWER SERVICE IS 2,000 AMP 277/480 VOLT THREE PHASE 4 WIRES.

#### 2-02 PANELBOARDS:

- A. ALL THE PANELBOARD SHALL BE OF THE DEAD FRONT, DEAD REAR, COMPLETELY BUSSED AND WITH CIRCUIT BREAKERS AS PER LAYOUT ON PLANS AND AS BUILT BY SQUARE D, WESTINGHOUSE OR APPROVED EQUAL.
- B. THE PANELBOARD SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SET UP BY THE UNDERWRITER'S LABORATORIES, INC., PANEL FRONTS SHALL BE MONOTRIM TYPES WITH CONCEALED MOUNTING SCREWS.
- C. THE PANELBOARDS SHALL BE EQUIPPED WITH HINGED DOORS, TYPE WRITTEN CIRCUIT DIRECTORIES. ALL FINISH SHALL BE PRIME COAT. PROVIDE HINGED YALE LOCKS ON ALL PANELS KEYED ALIKE, FURNISH SIX (6) KEYS.

D. DETAILED DRAWINGS OF THE PANELBOARDS CONSTRUCTION SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEERS AND UTILITY POWER COMPANY FOR APPROVAL BEFORE ITS CONSTRUCTION IS STARTED. SIX (6) COPIES REQUIRED.

#### 2-03 WIRE:

- A. ALL WIRE INSTALLED IN THIS CONTRACT SHALL BE OF A STANDARD MANUFACTURER AS APPROVED BY THE NATIONAL BOARD OF FIRE UNDERWRITER'S AND OF THE SIZE AS INDICATED ON THE DRAWINGS. ALL WIRE SHALL BEAR THE UNDERWRITER'S LABEL AND SHALL BE BROUGHT TO THE JOB IN UNBROKEN PACKAGES AND APPROVED BY THE ARCHITECT BEFORE IT IS INSTALLED.
- B. ALL CIRCUIT WIRE SHALL BE TYPE "THHN" COPPER UNLESS OTHERWISE NOTED. ALL FEEDERS SHALL BE "THWN" COPPER.
- C. NUMBER 12 B&S GAUGE WIRE SHALL BE THE SMALLEST GAUGE WIRE USED. ALL RUNS OVER 80 FEET FROM PANEL TO FIRST OUTLET SHALL BE INCREASED TO NEXT SIZE.
- D. NO WIRE SHALL BE DRAWN INTO CONDUIT UNTIL ALL WORK OF ANY NATURE THAT MAY CAUSE INJURY IS COMPLETED. NO BLOCKS, TACKLE OR OTHER MECHANICAL MEANS, SHALL BE USED IN PULLING IN WIRES AND CARE SHALL BE TAKEN IN PULLING WIRES THAT NO DAMAGE OCCURS TO THE INSULATION OR WIRE.
- E. ALL WIRE #6 B&S GAUGE OR LARGER SHALL BE STRANDED.
- F. ALL WIRING SHALL BE DONE WITH IDENTIFIED NEUTRALS.
- G. ALL SPLICED SHALL BE WITH "SCOTCHLOK" SPRING CONNECTORS. NO WIRE NUTS WILL BE PERMITTED.

#### 2-04 <u>CONDUIT</u>:

- A. AN IRON PIPE CONDUIT SYSTEM SHALL BE INSTALLED FOR THE CONNECTIONS FOR ALL OUTLET BOXES, JUNCTION BOXES, PANELBOARD CABINETS, GUTTERS, ETC.. CONDUIT SHALL BE RUN CONTINUOUS BETWEEN OUTLETS, ECT., AND WITH MINIMUM NUMBER OF BENDS.
- B. ALL CONDUIT INSTALLED IN CONCRETE SLABS, CONCRETE WALLS, UNDERGROUND OR IN DAMP OR HAZARDOUS AREAS, AND ALL CONDUIT CONTAINING WIRES LARGER THAN #4 AWG SHALL BE RIGID FULL WEIGHT, ALL OTHER CONDUIT MAY BE GALVANIZED ELECTRICAL METALLIC TUBING WITH GLAND RING WATERTIGHT TYPE. PVC SCHEDULE 40 MAY BE USED FOR UNDERGROUND RUNS. PROVIDE GREEN GROUND WIRE SIZED PER CODE FOR ALL RUNS.
- C. ALL CONDUITS SHALL BE SHERARDUCT, G.E. WHITE, BUCKEYE OR EQUAL. STUB UPS FROM PVC SCHEDULE 40 SHALL BE RIGID STEEL ELBOWS.

#### 2-05 <u>OUTLET;</u>

- A. IN GENERAL, THE LOCATIONS OF ELECTRICAL OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS, HOWEVER, THE CONTRACTOR SHALL MAKE ANY CHANGES NECESSARY TO SUIT CONDITIONS ON THE JOB OR RE-ARRANGEMENT OF BUILT-IN FIXTURES AND EQUIPMENT AS DIRECTED BY THE ARCHITECT OR HIS REPRESENTATIVE.
- B. IT SHOULD BE INCUMBENT UPON THE CONTRACTOR TO STUDY THE GENERAL BUILDING PLANS WITH RELATION TO SPACES SURROUNDING EACH OUTLET IN ORDER THAT HIS WORK MAY FIT THE WORK OF OTHERS AND THAT WHEN FIXTURES OR OTHER EQUIPMENT ARE INSTALLED THEY WILL SYMMETRICALLY LOCATED ACCORDING TO ROOM LAYOUT. REFER ALL CONFLICTS AND DISCREPANCIES PROMPTLY TO THE ARCHITECT.
- C. ALL OUTLETS SHALL BE STANDARD ONE TO TWO PIECES GALVANIZED KNOCKOUT OUTLET BOXES, NATIONAL, STEEL CITY, APPLETON, OR EQUAL, AND APPROVED MAKE.
- D. ALL OUTLETS SHALL BE STANDARD ONE OR TWO PIECES GALVANIZED KNOCKOUT AND ALL OF A MANUFACTURE AS APPROVED.
- E. NO OUTLET BOX SHALL BE SMALLER THAN 4-INCH DIAMETER AND 1-1/2 INCH IN DEPTH.
- F. ALL SPECIAL OUTLETS SHALL BE AS HEREINAFTER SPECIFIED.

#### 2-06 PLATE FINISHES:

- A. ALL WALL SWITCHES, CONVENIENCE, TELEPHONE AND SPECIAL, ALSO BLANK COVERS FOR THE VARIOUS BOXES REQUIRED TO BE SO EQUIPPED, SHALL HAVE STAINLESS STEEL PLATES TO SUIT SIERRA OR EQUAL.
- B. GANG TYPE PLATES SHALL BE USED FOR MULTIPLE UNITS.
- C. PLATES FOR SWITCHES AND RECEPTACLES LOCATED OUTDOORS SHALL BE WEATHERPROOF (FLIP LID TYPES).

#### 2-07 MATERIAL:

- A. TUMBLER SWITCHES SHALL BE LEVITON #1221-I SERIERS, OR EQUAL 20 AMP. QUIETTE. MOTION DETECTOR SWITCHES SHALL BE HUBBELL #WSS-277 FOR 277V AND HUBBELL #WSS-120 FOR 120V.
- B. ALL CONVENIENCE RECEPTACLES SHALL BE LEVITON #5252-I.
- C. 208 VOLT, 3 WIRE RECEPTACLES SHALL BE HUBBELL #6810 OR EQUAL.
- D. EXTERNALLY OPERATED SWITCHES SHALL BE TYPE "C", SQUARE D, TRUMBELL OR EQUAL.

#### 2-08 LIGHTING FIXTURES:

A. NOT APPLY.

#### 2-09 GROUNDING:

A. ALL CONDUIT SYSTEM, SUPPORTS, CABINETS, SWITCHBOARDS, ETC., AND NEUTRAL CONDUCTORS MUST BE PERMANENTLY AND EFFECTIVELY GROUNDED BY MEANS OF APPROVED GROUND CLAMPS IN ACCORDANCE WITH THE ELECTRICAL SATIETY ORDERS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS.

- B. THIS CONTRACTOR SHALL EXERCISE EVERY PRECAUTION TO OBTAIN GOOD CONTACTS AT ALL PANEL BOXES, PULL BOXES, ETC., WHERE IT IS NOT POSSIBLE TO OBTAIN GOOD CONTACT, THE CONDUITS SHALL BE BONDED AROUND THE BOXES WITH A #6 B&S GAUGE, RUBBER COVERED DOUBLE BRAIDED WIRE WITH APPROVED GROUND CLAMPS.
- C. ALL EQUIPMENT CASES, MOTOR FRAMES, ETC., SHALL BE COMPLETELY GROUNDED TO SATISFY THE REQUIREMENTS OF THE ELECTRICAL SAFETY ORDERS.

#### PART 3: EXECUTION

#### 3-01 WORK ASSOCIATED WITH OTHER CONTRACTORS:

- A. IN PREPARING THE ELECTRICAL BID, THE ELECTRICAL CONTRACTOR SHALL STUDY THE MECHANICAL PLANS AND SPECIFICATIONS IN PARTICULAR AND THE PLANS FOR THE WHOLE CONTRACT IN GENERAL IN ORDER TO DETERMINE THE SCOPE OF THE ELECTRICAL WORK INVOLVED IN CONNECTION WITH THE OTHER TRADES CONCERNED WITH THE CONTRACT. THE BID OF THE ELECTRICAL CONTRACTOR SHALL TAKE INTO ACCOUNT ALL THE ELECTRICAL WORK ASSOCIATED WITH THE GENERAL CONTRACT AND NO EXTRA WILL BE SUBSEQUENT ALLOWED FOR THE FAILURE OF THE ELECTRICAL CONTRACTOR TO ANTICIPATE THESE REQUIREMENTS.
- B. ALL ELECTRICAL LINE AND LOW VOLTAGE CONDUIT WIRING BY ELECTRICAL CONTRACTOR. ALL LINE VOLTAGE WIRING EXTERNAL OF CONTROL EQUIPMENT SHALL BE INSTALLED UNDER ELECTRICAL WORK. DISCONNECT SWITCHES SHALL BE PROVIDED AT ALL MOTOR LOCATIONS NOT IN SIGHT OF PANELBOARD TO DISCONNECTS OR OVER 50 FEET AWAY FROM SAME.
- C. THE ELECTRICAL WORK DONE IN CONJUNCTION WITH THE MECHANICAL AND OTHER TRADES SHALL BE DONE IN ACCORDANCE WITH DIAGRAMS AND INSTRUCTIONS OF THE EQUIPMENT MANUFACTURERS, WHICH SHALL BE FURNISHED, TO ELECTRICAL CONTRACTOR BY THE OTHER TRADE INVOLVED. ELECTRICAL CONTRACTOR IS NOT EXPECTED TO INTERPRET SUCH DIAGRAMS BUT SHALL REFER ANY DISCREPANCIES TO THE MECHANICAL CONTROL INVOLVED FOR INTERPRETATION.
- D. THE ELECTRICAL CONTRACTOR SHALL FURNISH DISCONNECT SWITCHES FOR MOTORS WHERE REQUIRED BY APPLICABLE CODE IF THEY ARE NOT FURNISHED BY OTHERS.
- E. THERMAL OVERLOAD SWITCHES (G.E.-CR. 1061 OR EQUAL) SHALL BE FURNISHED FOR ALL FRACTIONAL HORSEPOWER MOTORS WHERE SUCH PROTECTION IS NOT INCLUDED AS PART OF ANOTHER CONTRACT.
- F. ALL MOTOR AND CONTROL LOCATIONS SHOWN ON THE PLANS AND APPROXIMATE ONLY AND THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS WHICH THE MECHANICAL CONTRACTOR IS CONNECTED WITH.
- G. ALL WIRE SHALL BE #12 AWG IN CONDUIT UNLESS OTHERWISE NOTED

#### 3-02 EXCAVATING AND BACKFILL:

A. THE ELECTRICAL CONTRACTOR SHALL DO ALL EXCAVATING AND BACKFILLING IN CONNECTION WITH ELECTRICAL WORK. BACKFILLING SHALL BE DONE IN LAYERS OF APPROXIMATE 12-INCH WATER TAMPED FOR EACH LAYER. ALL DISTURBED

SURFACES SHALL BE RESTORED TO CONDITION, PROPERLY TAMPED TO ELIMINATE ANY SETTLEMENT. SEE SECTION 02223 BACKFILLING.

#### 3-03 DRAWING OF RECORD:

- A. ARCHITECT WILL FURNISH THE ELECTRICAL CONTRACTOR, AT COST, WITH REPRODUCIBLE TRACINGS OF ELECTRICAL DRAWINGS INCLUDED IN THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL LEGIBLY INDICATE EXACTLY THEREON, THE LOCATIONS OF ELECTRICAL FIXTURES, CONDUIT RUNS, NUMBER AND SIZE BOXES OUTLETS, ETC., INSTALLED BY HIM OR HER.
- B. THESE DRAWINGS SHALL ALSO SERVE AS WORK PROGRESS SHEETS AND THE CONTRACTOR SHALL MAKE NEAT AND LEGIBLE NOTATIONS THEREON DAILY AS THE WORK PROCEEDS.
- C. THESE SHALL BE AVAILABLE AT ALL TIMES FOR INSPECTION AND SHALL BE KEPT AT A LOCATION DESIGNATED BY THE ARCHITECT.
- D. AT COMPLETION OF THE WORK THESE RECORD DRAWINGS SHALL BE SIGNED BY THE CONTRACTOR (WITH DATE) AND RETURNED TO THE OFFICE OF THE ARCHITECT.

#### 3-04 <u>IDENTIFICATION OF SWITCHES AND APPARATUS:</u>

A. ALL PANELBOARD CIRCUITS, EXTERNALLY OPERATED SWITCHES AND APPARATUS USED FOR THE OPERATION OF OR CONTROL OF CIRCUITS, APPLIANCES OR EQUIPMENT SHALL BE PROPERLY IDENTIFIED WITH BAKELITE NAMEPLATES 1" X 3". ALL SUCH NAMEPLATES SHALL BE SUBMITTED TO THE ARCHITECT BEFORE BEING SECURED ON THE APPARATUS, CARD HOLDERS IN ANY FORM ARE NOT ACCEPTABLE.

#### 3-05 CLEANING AND LABELING:

A. THIS CONTRACTOR SHALL THOROUGHLY CLEAN ALL RECEPTACLES, PANELBOARDS AND OTHER PARTS OF THE WORK, DELIVERING THE SAME IN PERFECT CONDITION. ALL CIRCUIT BREAKERS, SWITCHES, CIRCUITS AND PANELBOARDS LABELED WITH STENCIL OR OTHER APPROVED METHOD INDICATING THEIR EXACT FUNCTION.

#### 3-06 COMPLETING WORK:

A. AT COMPLETION OF HIS WORK, THIS CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS AND DEVICES RESULTING FROM HIS WORK, LEAVING EVERYTHING IN A COMPLETE AND SATISFACTORY CONDITION. HE SHALL DELIVER ALL KEYS TO THE OWNER'S REPRESENTATIVE. UP-TO-DATE RECORD DRAWINGS SHALL BE KEPT BY THIS CONTRACTOR AND DELIVERED TO THE OWNER ON REPRODUCIBLE SEPIAS AT THE END OF THE CONTRACT.

#### 3-07 **GUARANTEES**:

A. AS A CONDITION PRECEDENT TO THE ISSUANCE OF THE FINAL CERTIFICATE OF A COMPLETE PAYMENT, DELIVER TO THE ARCHITECT SPECIAL WRITTEN GUARANTEE IN EFFECT THAT SHOULD IT DEVELOP DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP ANY SUCH FAILURE SHALL IMMEDIATELY BE MADE GOOD BY THIS CONTRACTOR AT HIS OWN EXPENSE.

END OF SECTION

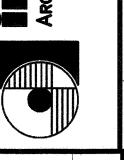
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N-CONSTRUCTION MANAGEMEN
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Revision Description:

| Constitution | Pesion - Constitution | Fresno, Suite 130 - Fresno, California | Fαx (559) 436-0887 | E-Mail | www.integrateddesigns.com | Revision Desc. | Revision: | Revision Desc. | Revision: | Revision Desc. | Revision Desc. | Revision | Revision Desc. | Revision

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ELEMENTARY SCHOOL
SFIELD CITY SCHOOL DISTRICT

MUNSEY ELEN
MUNSEY ELEN

Agency Approval Stamp:

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FILE #: \_\_
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

03-118272

AC \_\_\_FLSST\_SS\_CL

DATE NOV - 8 2017

TRACKING #:

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Job No.: **526**Sheet No.:

E-5

# PACESETTER INDUSTRIES, INC.

P.O. BOX 1131, MODESTO, CA 95353 (209) 521-1600

PC - 330 24x40 RELOCATABLE BUILDING

Sample and test as detailed below Shop fabrication inspection Shop fabrication inspection Shop fabrication inspection Field eraction inspection Very inspection of works — Field X Inspection of works — Field X Inspection of riveting or boiling — Field X Inspection of riveting or boiling — Field X Inspection of riveting or boiling — Field X Sample and test high strength boits and weather Reselvity tests RRICK AND SLOCK Sample and test Volume oftenge MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE Test only Inspection of placing Core drik samples GLUED LAMINATED STRUCTURAL LUMBER Fabrication inspection Sample and test seel accessories Inspect fabrication of steel screeneries  List of structural steel members to be tested:  All unidentified steel members per 22.122.1  (Is this list continued on reverse: Yes M.C. Copies of Reports to: Gaign Graftes	ign only as detailed below  Nion (Weighmaster)  MORYAR GROUT
Fits material, acceptance tests  Compaction control, continuous  Compaction tests only as ordered  Bearing capacity of compected fill  Continuous batch plant inspection (Weights  Inspect placing  Sample and test mush Sample and test mush Inspect placing in the state of the sample and test bar steel (wai ver)  Sample and test mush Sample and test as detailed below  Sample and test as detailed below Shop fabrication inspection Field srection inspection Field srection inspection Field srection inspection Inspection of weids — Field Samples and test shope Inspection of weids — Field Samples and test shope Inspection of viveling or beling — Field Samples and test plant scenarios  Field srection inspection Field state high scength belta and weathers Field samples Field state of viveling or belting — Field Field state	ns detailed below tion (Weighmaster)  Y  MORTAR GROUT
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REINFORCING STEEL  Sample and test bar steel (waiver)  Sample and test mash Inspect placing at job  STRUCTURAL STEEL  Sample and lest as detailed below  Shop fabrication inspection  Shop fabrication inspection  Shop fabrication inspection  Shop fabrication of weids — Fleld  Inspection of riveting or belting — Fleld  Inspection of riveting or belting — Fleld  Inspection of riveting or belting — Fleld  Inspection of streeting — Fleld  Inspection of streeting — Fleld  Inspection of streeting — Fleld  Insp	MORTAR GROUT
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Inspect placing at job  STRUCTURAL STEEL  Samples and served to laboratory  Shop febrication inspection SuiTABILITY TESTS CONCRETE MATERIALS GUNITE MORTAR  Inspection of welds — Shop Inspection of welds — Shop Inspection of welds — Flate Inspection of viveting or boiling — Shop Inspection of riveting or boiling — Shop Inspection of species  MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE  Test only Inspection of placing Core dell samples  GLUED LAMINATED STRUCTURAL LUMBER Fabrication Inspection Sample and test steel accessories Inspect febrication of steel accessories Inspect febrication of steel accessories List of structural steel members to be tested:  All unidentified steel members per: 2212A.1  (Is this list continued on reverse: Yes M.  Other Tests and Inspections, together with special instructions:  Copies of Reports to:  Gaiger Graftes	MORTAR GROUT
STRUCTURAL STEEL  Sample and test as detailed below  Shop fabrication inspection  Field eraction inspection  Field eraction inspection  SUITABILITY TESTS  CONCRETE  ANYERIALS  GUNITE  MORTAR  Inspection of welds - Field  Superior of welds - Field  Superior of welds - Field  Superior of welds - Field  Los Angeles rattler  Inspection of riveting or beling - Field  Sample and test inspection of riveting or beling - Field  Sample and test inspection of placing  Field eraction of placing  Cover display the strength belts and weathers  Will DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE  Test only  Inspection of placing  Cover display and test are accessories  GUUED LAMINATEO STRUCTURAL LUMBER  Fabrication inspection  Sample and test steel accessories  List of structured steel members to be tested:  All unidentified steel members par 22.123.1  (Is this list continued on reverse: Yes M.C.  Copies of Reports to:  Guign Graftes	MORTAR GROUT
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Field eraction inspection   SUITABILITY TESTS   MATERIALS   GUNITE   MORTAR	
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Inspection of welds — Field   Structural strength   Los Angeles satisfor	BTH, PSI, MINIMUM
Inspection of riveting or boiling — Shop   Los Angeles rattler   Clay (Hydroheter method)	BTH, PSI, MINIMUM
Inspection of riveting or belting — Field  Clay (Hydrometer method)  C Sample and test high strength botts and westers  BRICK AND BLOCK  Sample and test  Volume stlenge  MIX DESIGNS; CONCRETE, GROUT, MORTAR OR GUNITE  Test only Inspection of placing Core drift samples  GLUED LAMINATED STRUCTURAL LUMBER  Fabrication Inspection Sample and test steel accessories Inspect fabrication of steel accessories List of structural steel members to be tested:  All unidentified steel members per: 22.12A.1  (Is this list continued on reverse: Yes M.  Other Tests and Inspections, together with special instructions:  Copies of Reports to:  Gaige Grafice	BTH, PSI, MINIMUM
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Secrements CA 358 (3-2518	ACA44.9518

. DATE: 7- 4 -97

TESTING LABORATORY: KUPNFOLDER



#### SHEET INDEX

THLE SHEET, SHEET INDEX, DSA REQUIREMENTS, BUILDING DATA (2) GENERAL SPECIFICATIONS, VARIABLE SPECIFICATIONS, GENERAL NOTES FLOOR PLAN, ROOF PLAN, DETALS, SCHEDULES /2 EXTERIOR AND INTERIOR ELEVATIONS, GENERAL NOTES, LEGEND REFLECTED CELING PLAN, DETALS 2 CROSS SECTION, DETALS ELECTRICAL PLAN, DETAILS MECHANICAL PLAN, DETAILS CENERAL NOTES AND TYPICAL DETALS 50.2 TYPICAL DETALS 521 CACRETURDATION PLANS 52.2 WOOD FOUNDATION PLANS 52.3 FLOOR AND ROOF PLANS 52.4 TYPICAL PLOOR & ROOF PLANS & DETAILS - SIDEWALL MODILES SS.IC CONCRETE FOLKDATION DETAILS
SS.IW WOOD FOLKDATION DETAILS ROOF & PLOOR DETALS ROOF DETALS 59.1 RAWP AND LANDING - FRAMING PLAN, ŒNERAL NOTES 59.2 RAWP AND LANDING - ELEVATION, DETALS

- NECONNEAL PLANS DETAILS

HEROGALILAN, SCHOLES, PEIALS

# SHUL CONFORM TO HE 1995 CALFORNA PLEDING CODE (CDC) A COPY OF WHICH SHULL DE REPLO DRAWNES AND SPECIFICATIONS BY THE DISTRICT COMMETO AND APPROVED BY THE ARCHIECT AND THE DIVISION OF THE STATE ARCHITECT SHULL PROVIDE CONTINUOUS INSPECTION OF THE WORK, IN ACCORDANCE WITH C.B.C. SECTION MATERIAL TESTING, AS STATED IN THE TEST AND INSPECTION SHEET, (555 103-1), SHALL BE PERFORMED IN ACCORDANCE WITH C.B.C. SECTION MATERIAL TESTING REQUIRED BY FIRE REGILATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTINGLAB. VERIFIED REPORTS (PORM 555 6) SHALL BE SUBMITTED IN ACCORDANCE WITH SECTIONS 4-356 AND 4-545 ( ) BY THE MANUFACTURER A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED FOR DSA APPROVAL OF CONTRACT DOCUMENTS FOR SAID PROJECT MUST BE OBTAINED PRIOR TO START CALIFORNIA ELECTRICAL CODE (COE) CALIFORNIA MEHANKAL CODE (COIC AND TITLE IM, CALIFORNIA STATE OF CALIFORNIA Department of General Service Division of the State Archite Regulation Services-Sacto BUILDING DATA OCCUPANCY USE: SIZE (24' x 40'): OCCUPANCY LOND: 48 CONSTRUCTION TYPE: V FIRE RESISTANCE: ROOF LIVE LOAD: PLOOR LIVE LOAD: 50FF BAX WAD: SEISMIC ZONE: APPROVALS ELEVACIA. 24-0 · 172 66294 Lasiens deres 77-00

#### GENERAL SPECIFICATIONS

#### MATERIALS AND WORKMANISHIP:

ALL WORK PORCES SHALL BE SKILLED AND QUALIFIED FOR THE WORK THEY PERFORM. ALL MATERIALS LISED, LINLESS NOTED OTHERWISE, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFED.

WORKMANISHER SHALL BE EQUAL TO OR BETTER IN QUALITY THEN THAT REQUIRED BY THE VARIOUS CONSTRUCTION TRAVES FOR A PINISHED PRODUCT. ALL CONTRACTORS SHALL CERTIFY TO THE SCHOOL DISTRICT IN WRITING THAT NO ASDESTOS CONTAINING MATERIALS, WHICH EXCEED THE STATE AND PEDERAL MANDATED SAFE ASDESTOS LEVELS. HAVE BEEN USED IN THE CONSTRUCTION OF THE BUILDING, OR MAY OF ITS PARTS.

#### GENERAL DESIGN REQUIREMENTS:

EACH MODILE SHULL BE PERMANENTLY DENTPED WITH A METAL IDENTIFICATION TAG 3" x 1-1/2" MINIMUM SIZE, WITH THE FOLLOWING INFORMATION.

- A DSA APPLICTION NUMBER
- D. DESIGNIFLOOKLINE LOND

- B. DESIGN WIND LOAD
- E. MANUFACTURER'S NAME
- C. DESIGN ROOF LIVE LOND

AND LOCATED ON THE EXTERIOR AND INTERIOR, AT LOCATIONS INDICATED.

EACH MODILE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS PURING TRANSPORTATION AND/OR RELOCATION. (NORWAL INDUSTRY PRACTICE FOR PRACING MODILES DURING TRANSPORTATION AND IELOCATION IS REQUIRED) WHEN MODILES ARE ASSENDLED, JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS, OR OTHER APPROVED METHODS, TO PREVENT WATER AND AR INFLIRATION, SEALING FOR WATERPROOF CONDITIONS, AND TO PROVIDE A COMPLETE AND FINISHED APPEARANCE.

EACH MODILE SHALL BE SUPPLIENTLY RIGID TO BE JACKED UP AT THE PRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE TO THE UNIT. EVIDENCE OF EXCESSIVE BOWING EXCESSIVE TORQUE, OR RELATED INSTALLATION ABLEES. IN THE OPINION OF THE INSPECTOR, ARCHITECT, ENGINEER, AND/ORDSA FIELD ENGINEER. AND WHICH MAY CALLEE EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRATY OF THE MODILLE, SHALL BE SUPPLIENT REASON FOR REJECTION OF THE MODULE.

FILL LENGTH QUITERS SHALL BE FLIGHTSFED AT THE DOWNSIDE OF MODILE, WHERE DRANGE OCCURS. FULL LENGTH DOWNSPOLITS SHALL BE PROVIDED.

#### DIMENSIONS:

THE PULLDINGS SHALL CONSIST OF 960 SQUARE PEET WITH A TOLERANCE OF MINUS 5 SOUNCE PEET. ALL BUILDINGS SHALL MEET THE SQUINE FOOTAGE REQUIREMENT. LINEAR DIMENSIONS SHALL BE AS INDICATED, FACE OF STUD (FOS) TO FACE OF STUD. OR PACE OF CONCRETE (FOC) TO PACE OF CONCRETE.

THE INTERIOR HEIGHT, PLOOR TO CELLING, SHULL BE AS NOTED IN THE DRAWINGS. THE MODILE SHULL BE CLEAR SPAN TYPE, LINLESS NOTED OTHERWISE.

THE ENTRANCE WALL SHALL HAVE A 5' ROOF OVERHAVG. THE REAR WALL SHALL HAVE A 2' OVERHAVA. FULL LENGTH AUTERS AND DOWNSPOURS SHULL BE PLINISHED AT LOCATIONS INDICATED.

FRAMING:

PRAMING AND STRUCTURAL MEMBERS SHALL BE OF THE TYPE, GRADE, AND SIZE, INDICATED IN THE STRUCTURAL DRAWINGS.

#### MOISTURE BARRIER:

ALL SURFACES EXPOSED TO WEATHER SHALL HAVE A WEATHER RESISTANT BARRER TO PROTECT THE INTERIOR WALL AND CELLING COVERINGS. SUCH BARRIER SHALL BE EQUAL TO THAT PROVIDED IN LIBC STANDARD NO. 14-1 FOR KRAPT WATERPROOF PELT, GRADE D. /2 BARKER SHALL BE FREE FROM HOLES AND ENEAKS OTHER THAN THOSE CREATED BY PASTENERS AND CONSTRUCTION SYSTEM DUE TO ATTACHING OF THE BUILDING PAPER.

#### 6. ZBAR:

ALL HORIZONYAL JOINTS IN SIDING SHALL BE PROTECTED BY GALVANIZED "IZ BAR" PLASHING, 5/4" x 5/8" x 3/4" x 26 GALGE, INCLIDING THE POLLOWING JUNCTION OF SIDING AND SKIRTING. JUNCTION OF SIDING TO SIDING.

#### ROOF OVERHANG:

ALL OVERHANCE SHULL PRESENT A FINISHED APPEARANCE, ENCLOSED SOPPRIS SHULL BE ENCLOSED WITH NO VISIBLE FRANKING MEMBERS. SOPFIT MATERIAL SHALL BE AS INDICATED SOFFITS SHALL BE NEATLY AND CLOSELY FITTED AND TRIMMED TO COVER ALL GAPS. ALL ENCLOSED SOFFIT AREAS SHALL BE VENTED IN ACCORDANCE THE (CBC) CALIFORNIA BULDING CODE.

#### ELECTRICAL MATERIALS:

ALL ELECTRICAL WIRING HOV AND GREATER SHALL BE IN CONDUIT SYSTEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE (CEC) CALIFORNIA ELECTRICAL CODE. 1995

ACCEPTABLE CONDUIT (UNLESS NOTED OTHERWISE): RIGID ELECTRICAL NETALLIC TUBING (EMT), GALVANIZED THIN WALL

PLEXIBLE (INTERIOR), GALVANIZED STEEL PLEXIBLE (EXTERIOR), GALVANIZED STEEL WITH FACTORY APPLIED PVC

ALL CONDUIT SHALL BE CONTINUOUS FORM QUILET TO QUILLET AND SHALL BE SECREED IN CONFORMANCE WITH THE CEC., FIELD BENDS SHULL BE AVOIDED WHEN POSSIBLE. WHERE BENDS MILET DE MADE, LIEE AN APPROPRIATE "HICREY" OR BENDING MACINE. REAM AND DEDLIK ALL CONDUIT PRIOR TO INSTALLATION AND TERMINATE IN APPROPRIATE PUSHINGS OR CONNECTORS.

WRING SHULL BE MINIMUM #14 COPPER TYPE TW, THN, THN, OR THMN, AS APPLICABLE. CONDUIT FLL SHALL NOT EXCEED REQUIREMENTS FO THE CEC.

A SEPARATE OROUNDING CONDUCTOR SHULL BE PLLLED THROUGHT THE ENTIRE SYSTEM. CARE SHALL BE TAKEN TO AVOID DAMAGE TO WHE OR INSULATION DURING PILLING. POMPERED SOAPSTONE OR A PULLING COMPOUND SUCH AS "YELLOWITT" LUBRICANT MAY BE LISED.

MINIMUM CONDUIT SIZE SHULL BE 1/2" (LINLESS NOTED OTHERWISE). ALL EMPTY CONDUIT SHALL HAVE A PILL STRING INSTALLED.

#### VARIABLE SPECIFICATIONS

IN EACH ON THE POLLOWING SECTIONS ONE OF THE HEMS MILES SEE MARKED AS BEING APPLICABLE TO THIS BILLDING. ALL HENS NOTED AS STRUCTURAL MUST MEET THE MINIMUM STRUCTURAL REQUIREMENTS SET PORTH IN THE STRUCTURAL DRAWINGS AND NOTES.

#### SIDING (STRUCTURAL):

ANY EXTERIOR SIZING UTILIZED MUST MEET THE MINIMUM STRUCTRUM, REQUIREMENTS FOR SONG AS SPECIFED IN THE CENERAL REQUIREMENTS.

- 5/8" x 4" APA PANEL 503 MDO 5/8" x 4" APA PAREL 503 T-1-11 ROLLAH SANAN
- 5/8" x 4" APAPANEL \_\_\_\_DURATEMP WITH OROUVES 8" OC 5/8" x 4" APA PANEL\_\_\_\_SMOOTH MOO, NO ORDONES
- 5/8" : 4" APAPANEL \_\_\_\_ SHOOTH NO OROOMES OHER (SPECIPY) \_\_\_\_

#### TRIM (ALL TIRM IS NON STRUCTURAL)

#### ROOF EDGE:

1/16" ENDOSSED WAPERBOARD SIZING WITH MICH SURFACE 2 x ROUGH SAWN OF, HF, OR SPRICE

#### COONEX TRIME

1 x 6 DRY CEDAR OR SPRICE, ROUGH SAWN 2 x 6 ROUGH SAWAN DF. HF. OR SPRICE

#### OHER (SPECIFY) :\_

WINDOW AND DOOK TRIAL I & 4 DRY CEDAR OR SPRICE, ROUGH SAWA

I x 4 ROUGH SAWN DF. HF. OR SPRUCE

MODINE CLOSUE: S/8" x8" APAPAREL DIRATEMP-NO CROVES
OHEK (SPECIFY): 5/8"x10" APA PAHEL DIRATEMP - NO CIROLOYES

#### SKIRTING (NON STRUCTURAL):

- 5/8" x 4" APA PANEL 505 MDO 5/8" x 4" APA PANEL SOS T-1-11 ROUGH SAWAN 5/8" x 4" APA PAREL\_\_\_\_DURATEMP-NO ORDOVES
- 5/8" x 4" APA PANEL \_\_\_\_ SMOOTH MOO, NO GROOVES 5/8" x 4' APA PANEL \_\_\_\_ SMOOTH - NO ORDONES Other (Steary) \_

VENT SPACE SHALL BE PROVIDED AT I SQUARE POOT PER ISO LINEAL PEET OF BUILDING PERIMETER FOR A TOTAL OF 6.4 SOLINE PEET.

- SCREEN VENT
- 18 GALGE EXPANDED METAL VENT

#### DOWNSPOUTS AND GUTTERS:

#### PROVIDE | PER MODULE.

26 GALCE GALVANIZED SHEET METAL, PAINTED OHER (SPECIFY) 30 GA GALV, PANTED [X]

#### ROOFING:

[X] 26 CALCE CALVANIZED STANDING SEAM, CLASS B OVER SO POUND BUILDING PELT UNDERLAYMENT

#### DOORS AND FRAMES:

#### EXTERIOR DOORS:

1-3/4" 18 GALGE STEEL FACE SPEETS WITH INTERIOR SOUND DEADENING MATERIAL OTHER (SPECIFY): WITH VISION PANEL

#### INTERIOR DOORS (WHEN APPLICABLE):

1-5/4" SOLID CORE, PREFINISHED HANDBOARD FACE, WOOD ORAIN

#### OTHER (SPECIFY): WITH VISION PANEL

#### PRAMES:

16 GALICE KNOCK DOWN 3 ANCHORS PER FRAME

OTHER (SPECIFY): 16 GALLOE WELDED, 3 ANCHORS PER PRANE

HARDWARE:

LOCKSETS:

CLASSROOM TYPE LEVER HANDLE (REYED BY DISIRDCT) [X] SCHLAGE DYOPD (RHODES) OR EQUAL

0.09EK: (ADJUST TO 8.5 POLINDS MAXIMUM OPENING PRESSURE EXTERIOR, 5.0 POLINDS INTERIOR) [X]Lan 1460 ar Equal

#### HNZ5 1-1/2 PAR PUTS, 4-1/2" x4-1/2" [X]

WEATHERSTOPPING:

#### [X] PENKO 299POV OR EQUAL

DOOK BOTTOM: [X] PENKO OK EQUAL

#### THESHOLD:

PENKO 271A OR 272A OR EQUAL [X]

#### KICKPLATE:

[ ] IS GALCE STANLESS STEEL, 2" LESS THAN DOOR WIDTH BY 10", BEVEL EDGES

#### DOOR DUMPER!

QUALITY #44 OR EQUAL, 307, USQ60 OR EQUAL [ ]

HORIZONTAL SLIPING, 50% VENTED, CLEAR ANODIZED ALUMINUM FRANE, SIZED PER PLOOR PLAN,

- SINALE ALAZED, 3/16" SOLAR ARAY, 45%, TEMPERED
- SNAE alazed, 1/4" aranlite, 14%, tempered
- DUAL GLAZED, 1/8" SOLAR GRAY, 45%, TEMPERED
  - DUAL GLAZED, 1/4" GRAYLITE, 14%, TEMPERED
- HORIZONIAL BLADS OHER (STECTY). (1)

WINDOWS:

OPERAGLE SASH SHALL HAVE ALUMINUM PRAMED SCIEEN. FINISH TO MATCH WINDOW PRAME WANDOWS SHALL BE MOUNTED TO THE BLEDING PRANE AND BEHALD THE EXTERIOR PINISH SUFFACE. WANDOW SHULL MEET AND/ ANNA COICH-88 HS-C3O SPECIFICATIONS. DUAL QUAZE VANDONS SHULL HAVE I/4" AR SPACE, AND I/8" CLEAR TEMPERED INTERIOR PANE.

#### FLOOR COVERING AND BASE: (MEETING CLASS I PLANMADLITY)

- PLOOK COVERINGE 24 OZ. CARPET
- 26 OZ. CHEPET VC1(12x12) 1/8" SHEET VILLY .090 GALGE

X - AMOUNT OF LIGHT TRANSMITTANCE.

- OHER (SECTY) BY DISTRICT EX3
- BASE: REPORT 4" 10P9E1, 1/8" THICK, BURGEOK EQUAL. RUBBER 6" TOPSET, 1/8" THICK BURKEOR EQUAL.

OHER (SECTY) BY DISTRICT

CARPET SHALL BE DIRECT QUE DOWN TYPE, OF SOLUTION DYED NYLON. SPEET VANT. AND VCT SHALL BE DIRECT ALLE DOEN TYPE. ADJESIVES SHALL BE WATER BASE TYPE.

#### INTERIOR WALLS (SMOKE DEVELOPMENT MAX, 450):

- VINAL COVERED TACKBOARD, CLASS II PLANE SPREAD RATING, 8 OZ PER SQUARE YARD. APPLED OVER 1/2" GYPSUM WALLBOARD, DOMTAR CHATFELD CLARK OR EQUAL. (PLANE SPEED: 26-75) COLOR - SHOW DRIFT
- 1/2" GIPSUM WALLBOARD, STANDARD TAPERED EDGE (PLANE SPREAD: O-15) OHER (SPECIFY)\_

#### CEILING (SMOKE DEVELOPMENT MAX, 450);

- 5/8" x 2" x 4" VINNL PACED MINERAL FIBERBOARD WHITE
- (PLANE SPIEAD: CLASS 1, O-25) 2' x 4' FIBEROLASS RENFORCED PLASTIC PANELS (PRP)
- (FLANE SPREAD: CLASS III. 200 OR LESS) OHER (SPECIFY).

ARMSTRONG PRELLIDE XL OR EQUAL, WHITE CROSS RINNER: XL-7528 WALL ANGLE MOLD: 7800

1/2" GYPSUM BOARD, STANDARD, TAPERED EDGES (PLANE SPIEAD: CLASS 1, O-25)

#### 13. PAINT:

- EXTERIOR PLAT ACRYLIC LATEX, SHERMIN WILLIAMS 856. EXTERIOR FLAT ACRYLIC LATEX, SHERWIN WILLIAMS ALOO. EXTERIOR PLAT ACRYLIC LATEX, KELLY MOORE 1240.
- OHER (SPECIFY) ICL EXT. FLAT ACRYLIC LATEX
- 14. MARKERBOARDS:
- 8' X 4' 1171- DEST PL 4896 OR EQUAL 2 PORCELAIN STEEL 26 GALGE FACE SHEET LAMINATED TO 1/2" FIDERBOARD (DRY ERASE PELT MARKER BOARD) CHATFELD-CLARRE OR EQUAL
- 8' x 4' WITH FULL LENGTH ERASER TRAY AND CORK MAP RAL, 4 MAP HOLDERS, I FLAG HOLDER CHALK BOARD, 12' x 4' BULLETN BOARD, 12' 14'
- MAGNETIC BACKING
- OHER (SPECIFY) []
- 15. INSULATION:
  - R-11 PLOOKS AND WALLS, R-19 CELING. OTHER: R-\_\_\_PLOORS, R-\_\_\_WALLS, R-\_\_\_CELING

#### 16. FIRE EXTINGUISHER:

PRESSURE TYPE, 2MOBC, UL RATED WITH CHARGE DUL AND QUICK RELEASE MOUNTING BRACKET OHER (SPECIFY)

#### SOFFIT DEPTH

- EXPOSED SOFFIC
- NOMINAL DEPTH SOFFIT OHER (SPECIFY)

#### ROOF OVERHANG:

- PRONT 5', REAR 2'
- PRONTS', REAR 5'
- OHEX (SPECIFY)

#### 19. CASEWORK:

NONE (x)

OHER (SPECIFY)

20. DUCTWORK:

- [X] REXIDET INSILATED PLEX DUCT WITH VAPOR BARRER, ALL DUCTWORK WITHIN 5' OF HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE NETAL. DUCTWORK SHALL BE DESCRED FOR 2" STATE PRESSUE. REPERENCE BRANDS: OMENS CORNING PIDERALASS DUCT BOARD I' 1HICK MANNILLE MICRO-ARE THPE 4/5. ALL NON METALLIC DILCTWORK SHALL CONFORM TO NPPA
- 90-AAND 90-BAND SHACNA CLASS I KATING. ALL GALVANIZED SHEET METAL CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH CMC. ASHRAE, AND SMACNA. ALL DUCTWORK SHALL BE INSLLATED WITH I' THICK FIBERALASS DUCT WRAP AND VAPOR BARKER, PROVIDE I'' SOUND
- ATTENUATION AT ALL DUCTWORK WITHIN 8' OF HVACUNIT. OHER (SPECIFY)\_

#### ELECTRICAL: (SEE SHEETE)

- STANDARD PLAN ADDITIONAL OUTLETS (SPECTY). ADDITIONAL LIGHT FIXTURES (SPECIFY). ADDITIONAL EXTERIOR LIGHT FIXTURES (SPECIFY) PLUG MOLD OUTLETS (SPECIPY)
- ELECTRIC CLOCK 200 AMP PANEL OHER (SPECIFY)

#### SIGNAL SYSTEMS:

- OHER (SPECIFY) HONE
- 23. FIRE ALARM: PROVIDE CONDUIT AND JUNCTION BOXES ONLY WIRING, FIXTURES, AND HOOK-UPS BY OTHERS.
- FIRE HORN FIRE PLLL STATION OTHER (SPECIFY)

#### 24. FRAWING FINISH OPTIONS:

LIGHT GALGE FRAMING FINISH (SEE SHEET SO.1) [X] PANY - KLET NHBHIME COATING

16) DEVOE DEVILEX 4020 OR EQUAL

#### HOT DIPPED GALVANIZED

25. OTHER (SPECIFY): BUILDING FIELD 1000 -PEIGE DOORS, FRAMES, TRIM MUCSE

GUTTERS, DOWNSPOUTS

#### GENERAL NOTES

MARCH SIZING OR TEM

wen maerals are notalled when

#### ALL PASSES SHALL CONTLY WITH COC CHAPTERS 5, 6, 7, 8, AND 10

PREPARION OF SUPPLOOR TO ACCEPT STECTHED PRESES B BY HE PLOODING SEPCONTRACTOR.
ANY DEPOSITIES ENCOUNCIES, DUE 10 SONDARD
CONSTRUCTION PROCESS, SHALL FE FILLED
AND SANDED BY PLOODING SEPCONTRACTOR. HE DANT AT MODILE LINE SHILL NOT BE LAKER THAN 100 THE SHILL BE TIME ON "O ! I HAN

FILE #: 15-6

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

OFFICE OF REGULATION SERVICES

03-118272

DATE NOV - 8 2017

ACCREVATIONS:

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ALL HIM AND JOHNS SHALL HE SEARD WHIL MORROCHEN COMP CALING OR SECONE SEALANTS. TRANSPARENT THE OR PANIED TO

NELLATON MARRIALS NECKLIEV WIRN PLOOR-CELING ASSEMBLES, ROOF-CELING AGRENOLES, WILLS, COME STACES, OR ATTICS SHALL HAVE ATLANE STREAD RATING NOT TO ENCERD 25 AND A SHOTE PROBBLY NOT TO

CONCENTED PACES, HE PLANE STEAD
AND SHORE DEVELOPED LIMITATIONS DO NOT
ATTLY TO PACINGS IF HE PACINGS ARE
NEOULED IN SUPPONIAL CONDUCT WITH HE
UNEXPOSED SUPPACES OF HE CELING, PLOOR,
OR WILL PINESES, (SECTION 707.9 CBC)

BY PLOOPING SUPCONTRACTOR.

(916) 332-2453 ARCHITECTURAL SERVICES 耳 GEIGER

NORMAN A. GEIGER

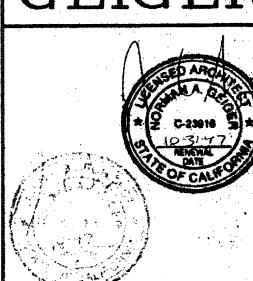
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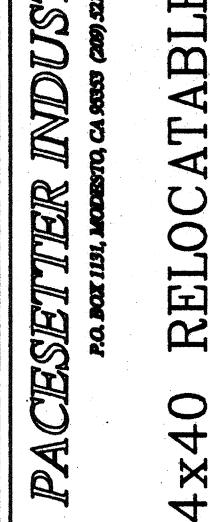
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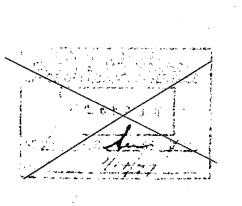


# TRIES



# SHEET CONTENTS

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APPROVALS

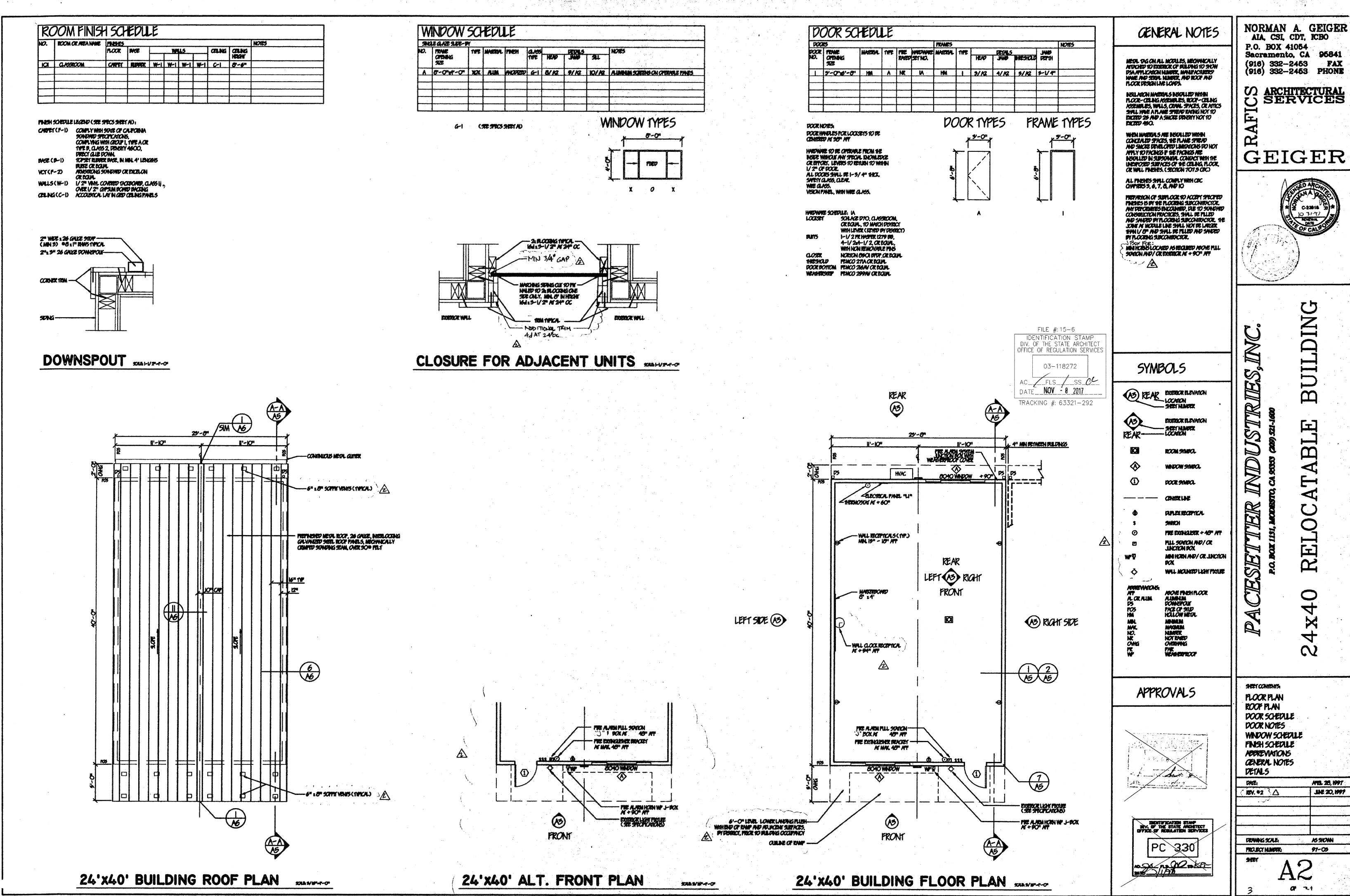
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GENERAL SPECIFICATIONS VARIABLE SPECIFICATIONS CENERAL NOTES JUL 22 1997

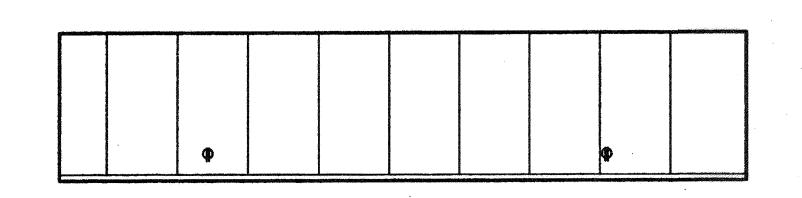
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MTL 28, 1997 JNE 20, 1997 EV. #2 A PRAWING SCALE: AS SHOWN PROJECT NAMES. 91-05

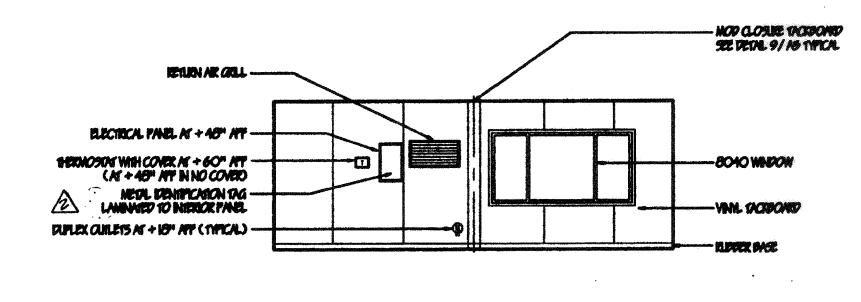
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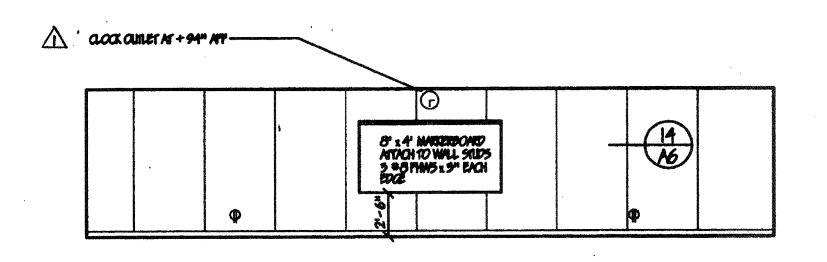
OWNER SCALE S/ W"-1"-O



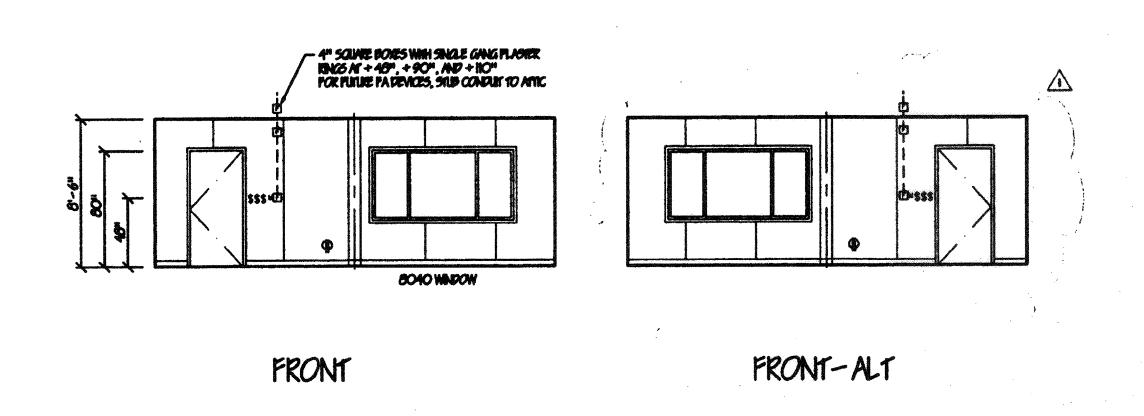
RIGHT SIDE



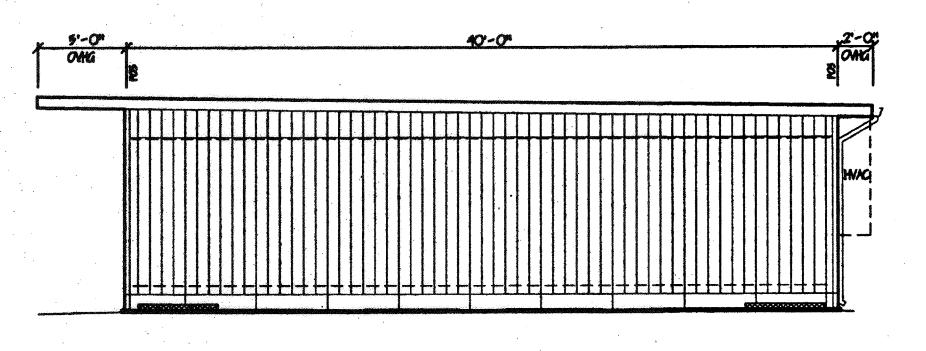
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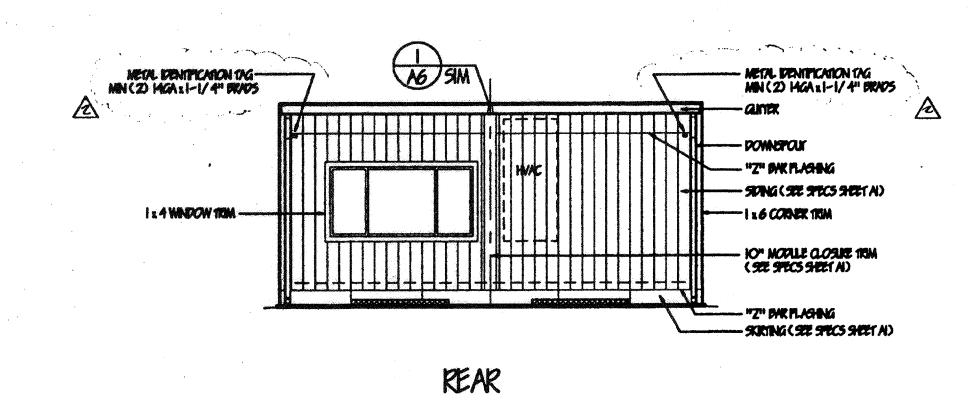
LEFT SIDE

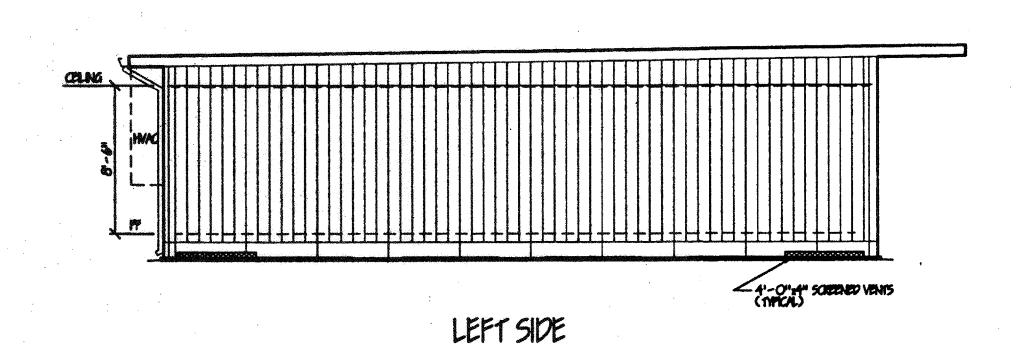


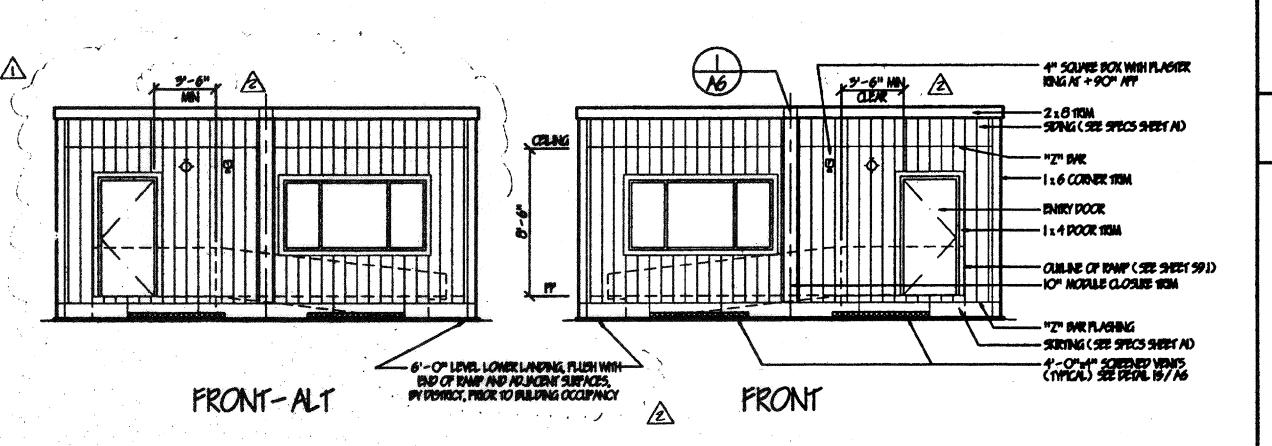
24'x40' INTERIOR ELEVATIONS



RIGHT SIDE







24'x40' EXTERIOR ELEVATIONS

GENERAL NOTES

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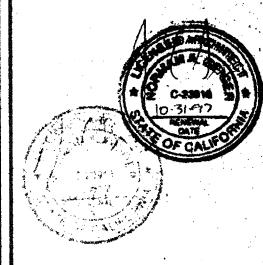
PROVIDE FOR UNDERFLOOR VEHILATION IN ACCORDINGE WITH CIPC 2917.7: I SQUIME FOOT OF VEHILATION IS REQUIRED FOR EACH ISO SQUIME PEET OF UNDERFLOOR AREA.

100L VANILATON REQUED:
25'-5":40'-0" - 997 St / 150 - 6.25 St
100L VANIS REQUED:
WOOD PAD POUNDATION - 8 AT 4'-0": 4"
CONCRET FOUNDATION - 8 AT 4'-0": 4"

VENTS SIVILL BE LOCATED TO AVOID FOUNDATION PADS OR CONDIENE WORK, REPER TO SPECIFIC SITE PLANS FOR ACTUAL LOCATIONS.

CATENDAYS SHILL BE LOCATED AS CLOSE TO CORNERS AS PRACTICAL AND SHILL PROVIDE CROSS VENILLATION. THE REQUIRED MEA OF CATENDAYS SHILL BE EQUILLY DISTRIBUTED ALONG THE LENGTH OF AT LEAST TWO CATEORIE SIZES.

VENTS SHILL BE CORROSION RESISTANT WIRE MESH WITH MESH CIPTAINCS OF 1/4 NCN.



DUSTRIES

CESE

**CENERALNOTES** 

EXTERIOR ELEVATIONS INTERIOR ELEVATIONS

KEYNOTES

DETALS

AT

RELO

GEIGER

NORMAN A. GEIGER

AIA, CSI, CDT, ICBO

Sacramento, CA 95841

PHONE

P.O. BOX 41054

(916) 332-2453 (916) 332-2453

AGRIEVATIONS:

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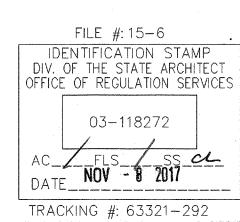
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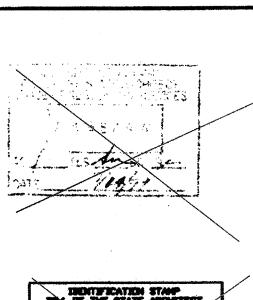
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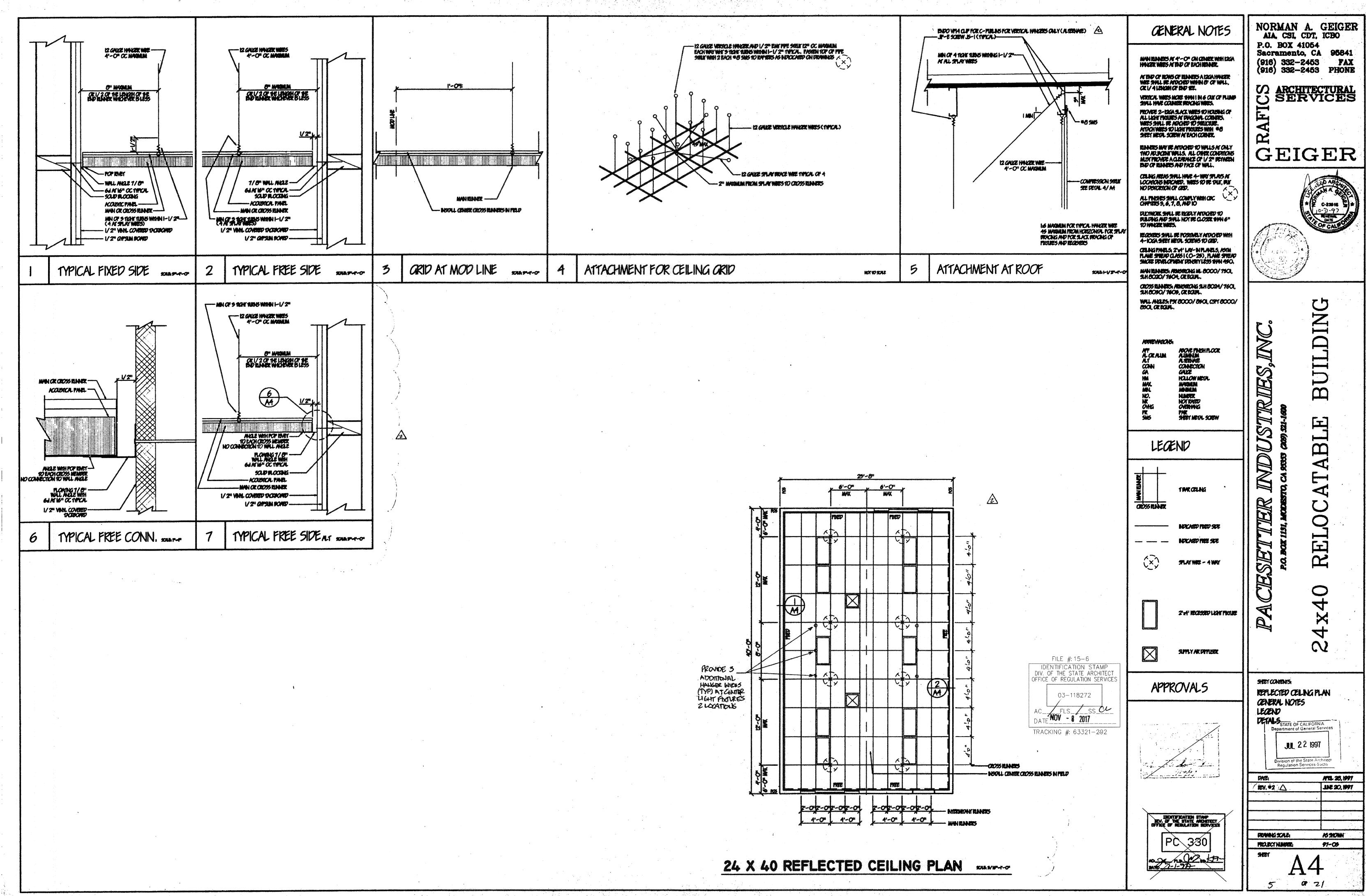
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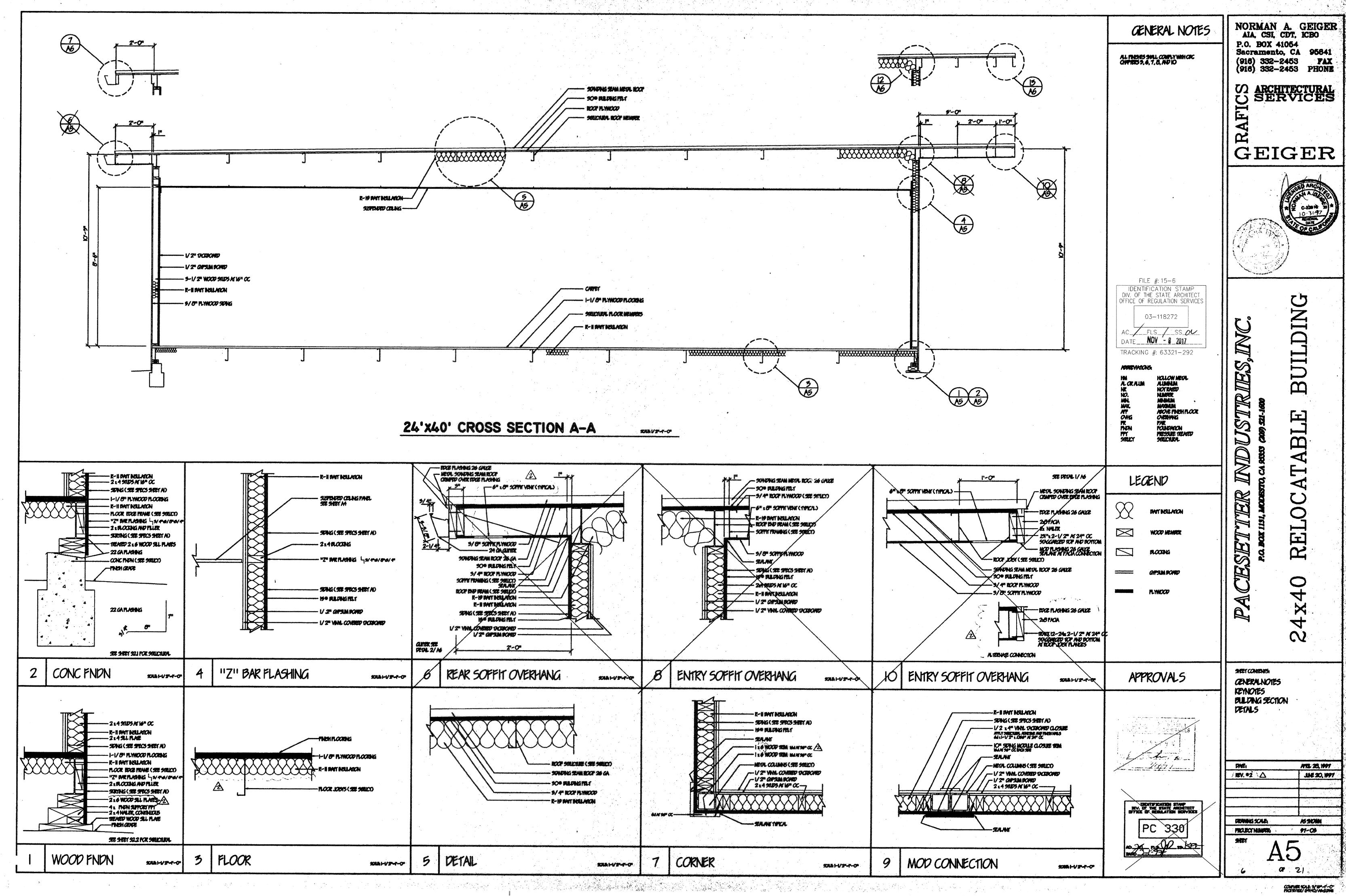
PROJECT NAMES: 97-05

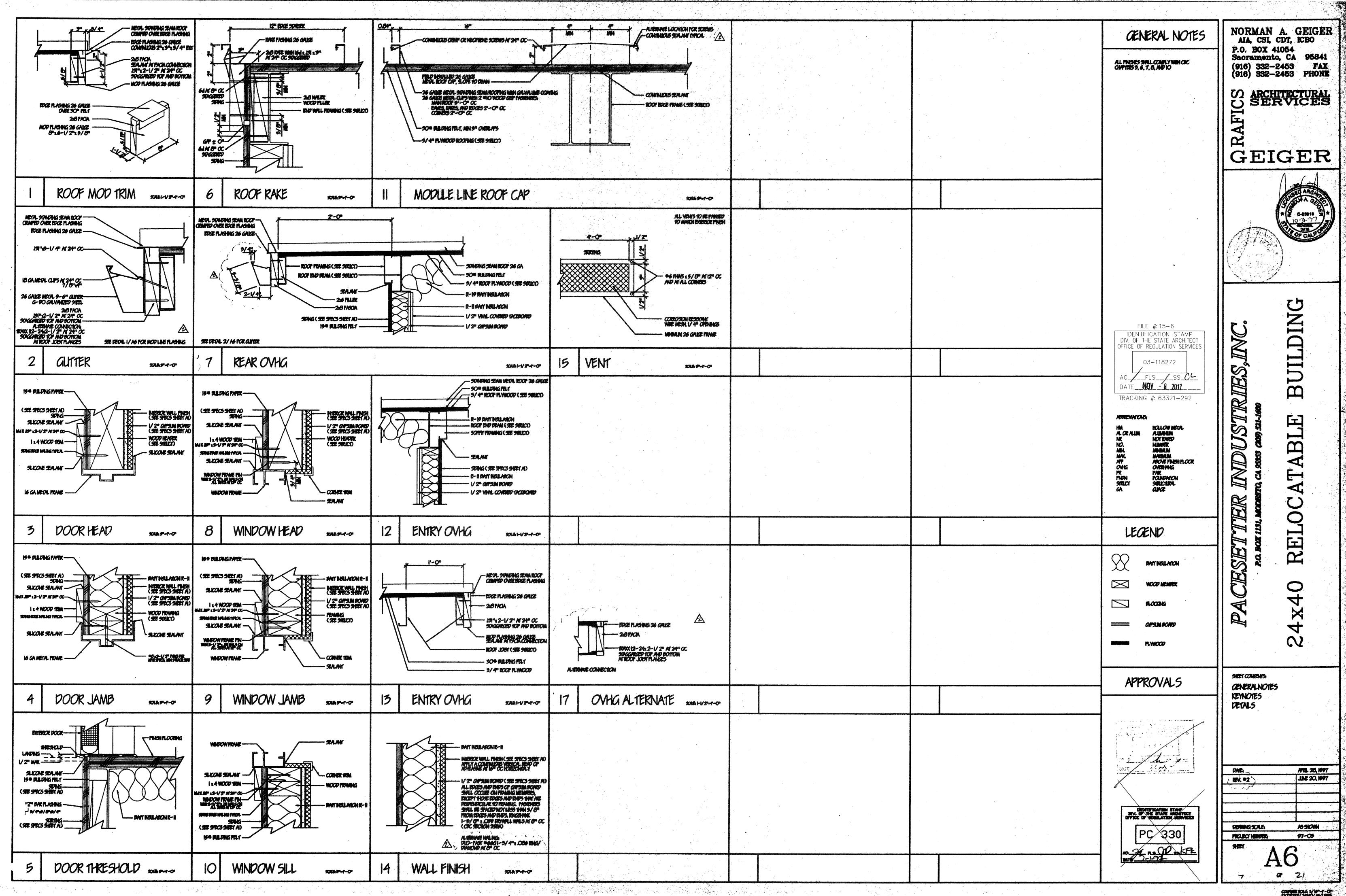
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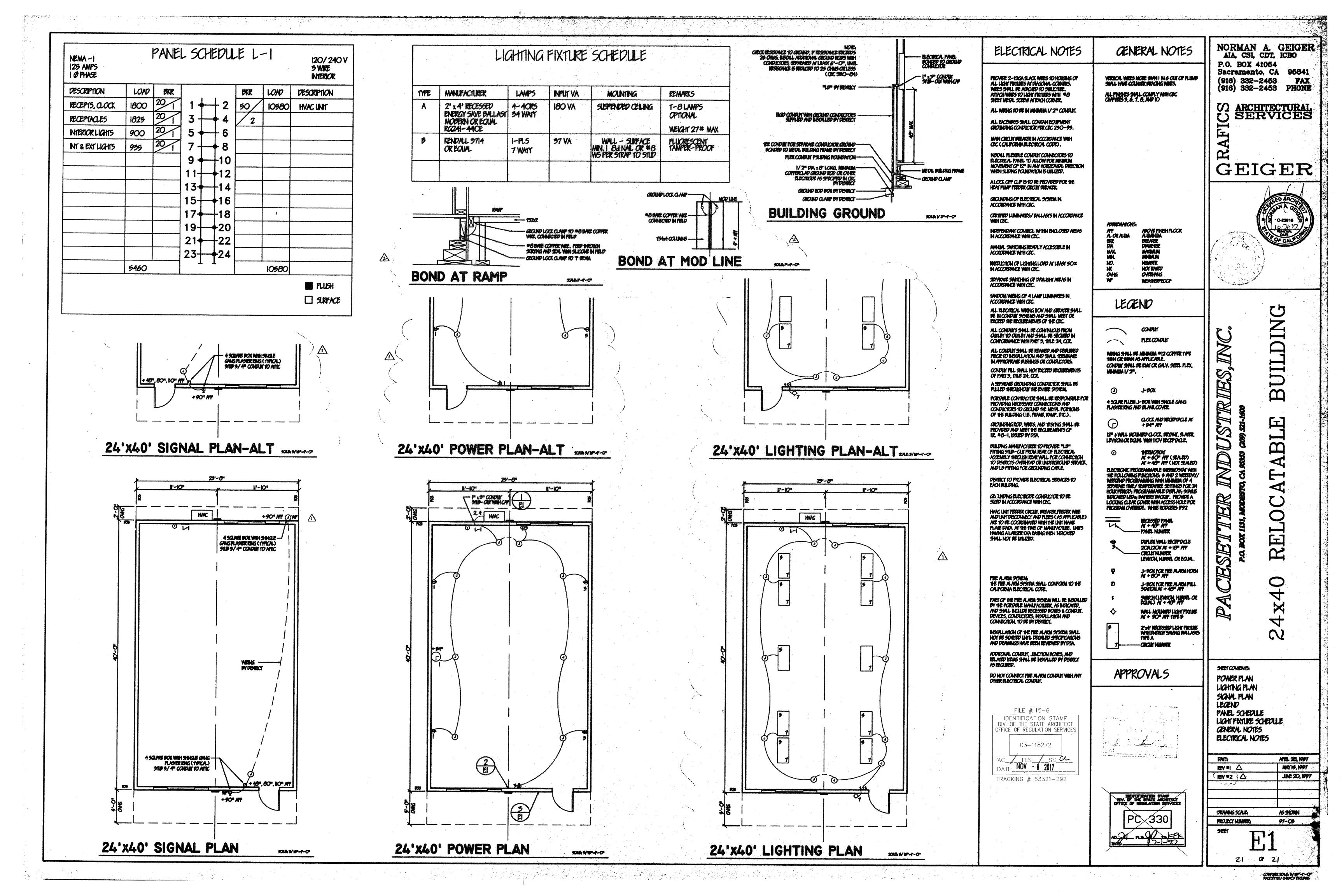
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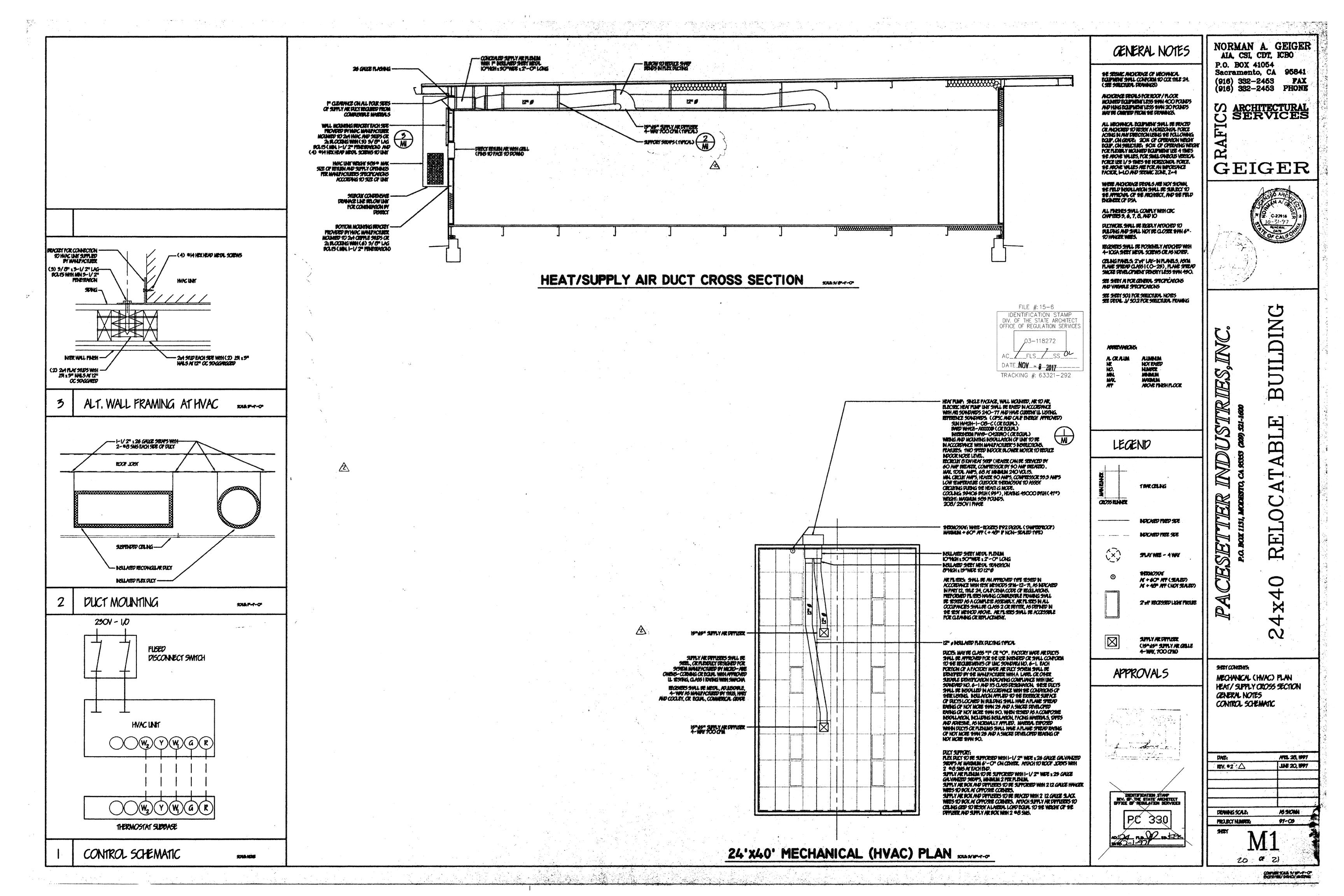
COMPRESCRES/SPIN-11-0" PRESCRES/24NOV/8/29NG



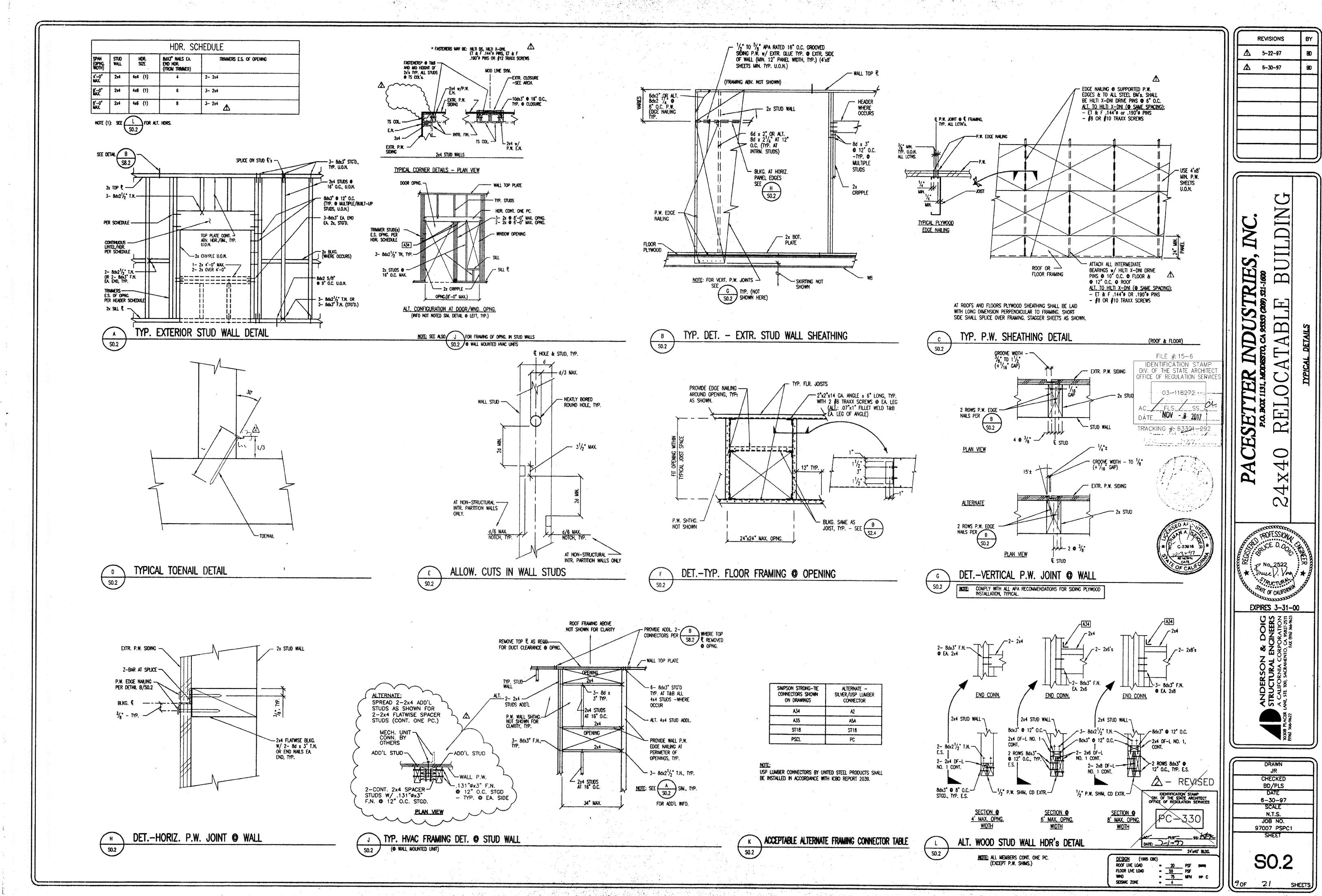


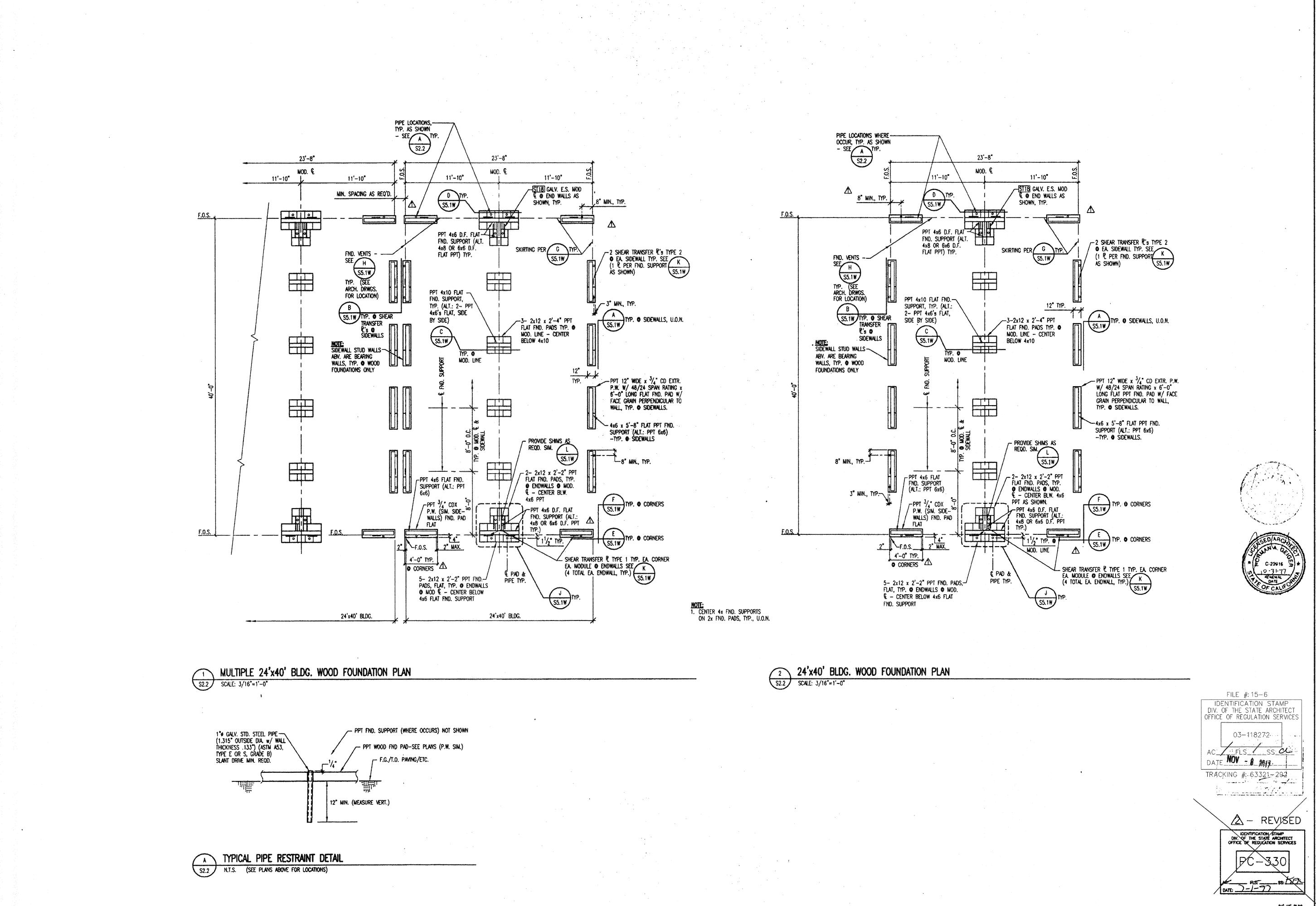






#### GENERAL NOTES: ABBREVIATIONS: TYPICAL DETAILS: REVISIONS GENERAL NOTES: NG\_CBC95 5-13-97 ALL CONSTRUCTION SHALL COMPLY WITH THE 1995 EDITION OF THE WHERE HIGH STRENGTH (H.S.) BOLTS ARE CALLED FOR ON THE DRAWINGS, 10. STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON STEEL WIRE ANCHOR BOLT CALIFORNIA BUILDING CODE (CBC), CCR TITLE 24, PART 2. [MODIFICATIONS NAILS PER FEDERAL SPECIFICATION FF-N-105B, ALL REQUIREMENTS OF BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE ALLOWABLE STRESS ABOVE 6-30-97 THE 1995 CALIFORNIA BUILDING CODE, CHAPTER 23A, AND CBC SECTION TO THE 1994 UNIFORM BUILDING CODE (UBC), UBC STANDARDS AND UBC DESIGN SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR <u>NOTE:</u> ALL BARS BENT COLD - NO FIELD BENDING ALLOWED. ADDL. **ADDITIONAL** RECOGNIZED STANDARDS ALL UBC RECOGNIZED STANDARDS AS APPLICABLE 2340. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CBC A490 BOLTS BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS **ADJACENT** ARE REQUIRED FOR THIS PROJECT.] ALSO COMPLY WITH ADMINISTRATIVE TABLE 23A-I-Q. NAILS EXPOSED TO WEATHER OR IN PRESSURE OF THE ENGINEERING FOUNDATION, LATEST EDITION, AS ENDORSED BY THE **ALTERNATE** REQUIREMENTS OF CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, (LATEST PRESERVATIVE TREATED MEMBERS SHALL BE HOT DIP GALVANIZED. NAILS AISC. SEE ALSO CBC CHAPTER 22A, SECTION 2210A.1. HIGH STRENGTH SIDE BEND DIAMETERS APPROX **APPROXIMATE** REVISION). SHALL BE ELECTROGALVANIZED ELSEWHERE. PROVIDE NAILS WITH MINIMUM BOLTS SHALL BE ASTM A325 UNLESS NOTED OTHERWISE ON THE ARCH. BAR SIZE D **ARCHITECTURAL** THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BENDING YIELD STRENGTHS PER TABLE 23-III-II OR 23-III-MM IN THE DRAWINGS. BOLTS ARE SLIP CRITICAL, U.O.N. \$3 TO \$8 60 BUILDING DURING CONSTRUCTION AND SHALL DESIGN AND PROVIDE 1995 CBC, IF MACHINE NAILING IS UTILIZED FOR THIS PROJECT. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BLDG. BLKG. BUILDING ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CCR TITLE 24. 19,110,111 86 CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE -BLOCKING PART 2. SECTIONS 2311A.3.3 AND 2314A.3. MACHINE NAILING IS SUBJECT SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS. STEEL, AWS D1.1, LATEST EDITION, OF THE AMERICAN WELDING SOCIETY. BLW. #14,#18 100 BELOW DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO DETAILS FOR TO APPROVAL BY THE STRUCTURAL ENGINEER AND THE DIMSION OF THE \*\*\*\*\*\* SEE CBC CHAPTER 22A, SECTION 2209A. PROVIDE SPECIAL INSPECTION SIMILAR CONSTRUCTION SHOWN ON THESE DRAWINGS. THE CONTRACTOR STATE ARCHITECT. FOR ALL WELDING - SEE #8 BELOW. UTILIZE E70 LOW HYDROGEN B.O. BOTTOM OF ADMITS AND AGREES THAT THE CONTRACT DOCUMENTS EXHIBIT THE INTENT NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR ELECTRODES, TYPICAL. BOTTOM AND PURPOSE OF THE OWNER IN REGARD TO THE WORK, AND THAT THEY FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SPECIFIED PENETRATION, TYP., U.O.N.) BOTH SIDES ARE NOT COMPLETE IN EVERY DETAIL AND ARE TO BE CONSIDERED AS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST 6d EQUALS .113" DIA. - PROVIDE 1 3/8" MIN. POINT PENETRATION BETWEEN SHOWING THE PURPOSE AND INTENT ONLY; AND THE CONTRACTOR 8d EQUALS .131" DIA. - PROVIDE 1 1/2" MIN. POINT PENETRATION EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. TYPICAL (U.O.N.) FURTHER AGREES TO FURNISH ALL LABOR OR MATERIAL FOR ANY DETAIL ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, OF THE AMERICAN 10d EQUALS .148" DIA. - PROVIDE \*1 3/4" MIN. POINT PENETRATION CONSTRUCTION JOINT THAT IS NECESSARY TO CARRY OUT SAID INTENT AND PURPOSE OF THE INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A, SECTION 16d EQUALS .162" DIA. - PROVIDE \*2" MIN. POINT PENETRATION CENTERLINE CONTRACT DOCUMENTS WITHOUT EXTRA CHARGE TO THE OWNER. \*1 1/2" AT 2x MEMBERS 12. INFORMATION IN BOX INDICATES MODEL NUMBER OF CONNECTOR HARDWARE BY THE SIMPSON COMPANY, SAN LEANDRO, CALIFORNIA. INSTALL 2203A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF inside bend diameters CEILING THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. (THERE ARE CLEAR BAR SIZE D CMU COL. CONC. CONSTR. SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED NO SELF-SUPPORTING FRAMES ON THIS PROJECT - TEMPORARY BRACING CONCRETE MASONRY UNIT TO THE ATTENTION OF THE ARCHITECT AND BE RESOLVED BEFORE IS REQUIRED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE COLUMN IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR MAXIMUM PROCEEDING WITH THE WORK. RATED LOADS. UON. USP LUMBER CONNECTORS, BY UNITED STEEL CONCRETE NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE CONSTRUCTION 2 1/2" PRODUCTS COMPANY, LIVERMORE, CALIFORNIA, IN ACCORDANCE WITH ICBO PRIME ALL STEEL SURFACES WITH AN APPROVED ZINC RICH PRIMER, CONN. PENETRATED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT IN CONNECTION REPORT 2039, ARE ACCEPTABLE ALTERNATES TO SIMPSON CONNECTORS AS EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE, CONTACT AREAS OF 2 ADVANCE OR SHOWN ON THESE DRAWINGS. CONTINUOUS HIGH STRENGTH BOLTED CONNECTIONS AND SURFACES TO RECEIVE FIELD SHOWN IN TABLE K/SO.2. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE COMPLETE PENETRATION WELD OR SPRAY APPLIED FIREPROOFING. TOUCH-UP FIELD WELDS AND 13. EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE STIRRUPS & TIES DRAWINGS. COUNTERSINK DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH CBC SECTION OTHER EXPOSED STEEL SURFACES AFTER ERECTION. WHERE THESE GENERAL NOTES AND THE TYPICAL DETAILS ARE IN CONFLICT 2326A, CONVENTIONAL LIGHT FRAME CONSTRUCTION PROVISIONS, AS A OWNER SHALL PROVIDE INSPECTIONS AND TESTS IN ACCORDANCE WITH WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND THE TYPICAL DOUBLE MINIMUM. CBC SECTION 2212A. OWNER'S INSPECTOR AND TESTING LABORATORY DETAILS SHALL GOVERN. SHALL PROVIDE REPORTS TO THE ARCHITECT, STRUCTURAL ENGINEER, AND DOUGLAS FIR-LARCH PROVIDE OPENINGS, CURBS, BLOCKING, FRAMING AND/OR SUPPORTS FOR CONCRETE: NC\_CBC95 DIVISION OF THE STATE ARCHITECT. SELF DRILLING SCREWS FOR ATTACHMENT OF WOOD OR STEEL TO STEEL SHALL DIAGONAL ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, OTHER 1. CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH DIMENSION DRAWINGS OR SPECIFICATIONS INCLUDED IN THE CONSTRUCTION BE TRAXX SCREWS BY ITW BUILDEX, DARTS SCREWS BY COMPASS INTERNATIONAL. OF 3000 PSI AT 28 DAYS IN ACCORDANCE WITH ASTM C31 AND C39. D.O. DRWG. STD. HOOKS & BENDS IN REINF. STEEL DOCUMENTS. OR EQUIVALENT, INSTALL PER MANUFACTURE'S INSTRUCTIONS AND THESE DRAWINGS. DRIVE PINS FOR ATTACHMENT OF WOOD TO STEEL SHALL BE BY HILTI DRAWING TESTING SHALL BE IN ACCORDANCE WITH CBC SECTION 1905A.6. THREE REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER CYLINDERS FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED DIA. Ø DIAMETER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS. ~ FASTENING SYSTEMS PER ICBO REPORT NO. 2388, OR EQUIVALENT. EACH DAY SHALL BE TAKEN BY THE OWNER'S TESTING LABORATORY NOT 10. ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISH FLOOR ELEVATION. X-DNI DRIVE PINS SHALL BE DOME HEAD W/ SMOOTH SHANK (DRIVE THRU EXISTING LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 50 CUBIC (0'-0" ELEV. IS @ TOP OF FLOOR P.W.) 7/8" x 5/64" WASHERS WHERE NOTED.) DS DRIVE PINS SHALL BE DOME HEAD w/ SMOOTH SHANK DRIVEN THRU 7/8" x 5/64" YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 2000 SQUARE EACH 11. PROVIDE INSPECTIONS, TESTS, AND REPORTS IN ACCORDANCE WITH THE FEET OF SURFACE AREA FOR SLABS AND WALLS. PROVIDE 6% ENTRAINED EACH FACE WASHERS TYPICAL. LENGTHS SHALL BE SUCH THAT FULL DIAMETER OF SHANK PENETRATES THRU STEEL MEMBER ATTACHED TO. INSTALL PER 1995 CBC AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1. EXPANSION JOINT AIR BY VOLUME WITH ADMIXTURE PER ASTM C260 FOR SITES ABOVE 1500 12. IN ADDITION TO CONTINUOUS PROJECT INSPECTION, THE FOLLOWING **ELEVATION** FEET IN ELEVATION. SEE ALSO CBC SECTION 1904A. MANUFACTURER'S REQUIREMENTS, THESE DRAWINGS AND THE MANUFACTURER'S SPECIAL INSPECTIONS SHALL BE REQUIRED, AS A MINIMUM: EDGE NAILS ALL CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATORS. A INSPECTION OF ALL WELDING FOR STRUCTURAL STEEL, PER CBC EQUAL ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF 1995 . ATTACHMENT OF WOOD TO STEEL WHERE SHOWN ON DRAWINGS SHALL BE ET&F SECTION 1701A.5.5 AND 1703A. SEE ALSO REQUIREMENTS OF EQUIP. EQUIPMENT ~ FASTENING SYSTEMS .144" & PINS PER ICBO REPORT NO. 4144 OR EQUIVALENT. CBC (CCR TITLE 24, PART 2) AND ACI STANDARD 318, LATEST REVISION. CBC SECTION 2212A.5. EACH SIDE OF THE AMERICAN CONCRETE INSTITUTE, UNLESS SHOWN OR NOTED INSTALL PER MANUFACTURER'S REQUIREMENTS, THESE DRAWINGS AND THE B. INSPECTION OF INSTALLATION OF HIGH STRENGTH BOLTS, PER EXTERIOR MANUFACTURER'S ICBO APPROVAL: LENGTHS SHALL BE SUCH THAT PINS EXTEND THROUGH STEEL MEMBER 1/4" MINIMUM. (.190" PINS CAN BE USED AS AN OTHERWISE ON THESE DRAWINGS CBC SECTIONS 1701A.5.6 AND 2212A.6. EACH WAY 4. AGGREGATE SHALL CONFORM TO ASTM C33 AND CBC SECTION 1903A.3. C. INSPECTION FOR CONCRETE AND CONCRETE REINFORCEMENT GRADING OF COMBINED AGGREGATE SHALL BE PER TITLE 24, PART 2, ALTERNATE TO 144 & PINS PREUTEK, INC. ARE AN ACCEPTABLE ALTERNATE TO HILTI OR PLACEMENT, PER TITLE 24, PART 1, CHAPTER 4, GROUP 1 AND CBC FINISH FLOOR TABLE 19A-J. (1" MAX. AGGREGATE) SECTIONS 1701A.5.1, 2, & 4. FINISH GRADE ET & F PINS. PROVIDE EQUAL OR GREATER DIAMETER AND INSTALLATION PER CEMENT SHALL BE ASTM C150, TYPE I OR TYPE II. SEE ALSO 13. ALL REQUIRED INSPECTIONS AND TESTS ARE THE RESPONSIBILITY OF THE FIN. FINISH MANUFACTURER'S INSTRUCTIONS. REQUIREMENTS OF CBC SECTION 1903A.2. FILE #: 15-6 OWNER. ALL INSPECTORS SHALL PROVIDE REPORTS AS REQUIRED BY CCR FLR. FLOOR REINFORCING STEEL SHALL BE DEFORMED CONFORMING TO ASTM A615 MULTIPLE REINF. SIN TITLE 24, PART 1, CHAPTER 4, GROUP 1 IDENTIFICATION STAMP FACE NAIL FOUNDATIONS: (CONCRETE) GRADE 60 UNLESS OTHERWISE NOTED. SEE ALSO REQUIREMENTS OF CBC 14. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE DIV. OF THE STATE ARCHITECT FOUNDATION SECTION 1903A.5. C PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE FACE OF OFFICE OF REGULATION SERVICES WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185. STATE ARCHITECT AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN FACE OF CONCRETE WELDING OF REINFORCING STEEL SHALL BE PERFORMED ONLY WHERE THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON F.O.M. FACE OF MASONRY INDICATED ON THE DRAWINGS AND SHALL BE IN COMPLIANCE WITH ALL THE ALLOWABLE BEARING PRESSURE NOTED BELOW. 03-118272 ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE FACE OF STUD REQUIREMENTS OF THE CBC AND THE STRUCTURAL WELDING CODE -FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD FAR SIDE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS. REINFORCING STEEL, AWS D 1.4, LATEST REVISION, OF THE AMERICAN ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER CBC. 15. ALL BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 TYPE A OR C FOOTING WELDING SOCIETY (UBC STANDARD 19-2). PROVIDE WELDING PROCEDURE TABLE NO. 18A-1-A OR IR 23-6. (INCLUDING SUPPLEMENTARY REQUIREMENT S1) UNLESS NOTED OTHERWISE 2 AND MILL TEST REPORTS FOR ALL REINFORCEMENT TO BE WELDED. THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ON DRAWINGS DATE NOV - 8 2017 ELEVATIONS SHALL BE MADE UTILIZING THE TYPICAL FOOTING STEP DETAILS ON THESE DRAWINGS. REINFORCING WITH C.E. ABOVE 0.75 SHALL NOT BE WELDED. ARCHITECT GALVANIZED 16. WHEN MODULE IS RELOCATED - DO NOT REINSTALL NAILS OR SCREWS IN GALV. GRID LINE SHALL APPROVE WELDING PROCEDURE, WELDER QUALIFICATIONS AND MILL TRACKING #: 63321-292 EXISTING HOLES. CONC. REINF. DETAIL TEST REPORTS PRIOR TO EXECUTION OF WELDING. PROVIDE INSPECTION CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE GLU-LAM BEAM INDICATED ON THESE DRAWINGS. \$0.1 PER CBC CHAPTER 17A AND SECTION 1928A.12. GYP. BD. GYPSUM BOARD PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT WOOD: NW\_CBC95 COVERAGE FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE POND OR OTHERWISE COLLECT UNDER THE BUILDING. REQUIREMENTS OF THE CBC AND ACI STANDARD 318 UNLESS SHOWN HOLLOW CONCRETE BLOCK STRUCTURAL FRAMING SHALL BE DOUGLAS FIR - LARCH GRADED IN FOUNDATIONS ARE DESIGNED AS FIXED FOUNDATIONS IN ACCORDANCE WITH OTHERWISE ON THE DRAWINGS. HOLDOWN ACCORDANCE WITH THE WESTERN LUMBER GRADING RULES OF THE IR 23-6 OR CBC CHAPTER 18A. 10. LAP SPLICES FOR REINFORCING BARS SHALL BE 60 BAR DIAMETERS OR HEADER WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES A. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT 18" MINIMUM UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WIRE BARS NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM HORIZ. HORIZONTAL TOGETHER AT LAPS OR SPLICES. STAGGER LAPS IN ADJACENT HORIZONTAL REVISIONS. WOOD MEMBERS SHALL HAVE A MAXIMUM MOISTURE CONTENT THESE RELOCATABLE BUILDINGS BY 2" MINIMUM. OR SLOPING REINFORCING BARS A MINIMUM OF THE REQUIRED SPLICE HIGH STRENGTH OF 19% AT TIME OF INSTALLATION. DOUGLAS FIR SOUTH IS NOT ALLOWED. LENGTH. HOOKS SHALL BE CBC STANDARD HOOKS PER CCR TITLE 24. PAD FOUNDATIONS: (RESTRAINED) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW INFORMATION PART 2, SECTION 1907A.1 THRU 1907A.3, UNLESS SHOWN OTHERWISE. OCCURS THRU FOOTING THE GRADES INDICATED. GRADES SHALL BE AS FOLLOWS UNLESS NOTED FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE INTERIOR WELDED WIRE FABRIC SHALL BE SPLICED BY LAPPING A MINIMUM OF 12 STATE ARCHITECT AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP -NO EXCAVATION FOR PIPE OTHERWISE ON THE DRAWINGS. INTRM. INTERMEDIATE INCHES OR TWO CROSS WIRES. WHICHEVER IS GREATER. TRENCHES PARALLEL TO ALL FRAMING EXCEPT AS NOTED ----- NO. 2 INTERPRETATIONS OF REGULATIONS 4" MIN. -4" 11. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94 (UBC FOOTING BELOW THESE LINES. THE ALLOWABLE BEARING PRESSURE NOTED BELOW. BLOCKING ----- NO. 3 (OR BETTER) STANDARD 19-3) AND ACI STANDARD 304. ALSO COMPLY WITH THE FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALL PLYWOOD SHOWN ON THESE DRAWINGS SHALL BE C-D, U.O.N., WITH JOINT REQUIREMENTS OF CBC SECTION 1905A.7 THRU 1905A.13. ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER IR 23-6. EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-83 12. ALL EMBEDDED ITEMS SHALL BE PLACED ACCURATELY AND SECURED PRIOR THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE FOOTING SHIM DETAILS ON THESE DRAWINGS. (UBC STANDARD 23-2). ALL PANELS SHALL BE MARKED WITH AN APA LOCATION TO BEGINNING CONCRETE PLACEMENT. GRADE MARK WITH A PANEL SPAN RATING IN ACCORDANCE WITH CBC LLV LONG LEG VERTICAL 13. CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE TABLE NO. 23A-I-S-1. USE 4'x8' PANELS, MINIMUM, EXCEPT AT CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE C-23616 STRENGTH OF THE STRUCTURE, CONSTRUCTION JOINTS SHALL COMPLY BOUNDARIES AND FRAMING CHANGES WHERE THE MINIMUM PANEL MAX. MAXIMUM WITH CBC SECTION 1906A.4. LOCATE CONSTRUCTION JOINTS ONLY AS INDICATED ON THESE DRAWINGS. 0.3147 DIMENSION SHALL BE 24" AT ROOFS OR FLOORS UNLESS PANEL IS MECH. MECHANICAL PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE BY THE MFR. SUPPORTED AT ALL FOUR SIDES BY FRAMING OR BLOCKING. MINIMUM MANUFACTURER POND OR OTHERWISE COLLECT UNDER THE BUILDING, STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT (DSA). PANEL DIMENSION AT WALLS SHALL BE 12". TECO RESEARCH & TESTING MIN. MOD. VERIFY THAT NO PIPES, UTILITIES, OR OTHER SUCH ITEMS OCCUR BELOW MINIMUM PROVIDE SHOP DRAWINGS FOR ALL REINFORCING STEEL TO THE ARCHITECT AND PITTSBURG TESTING LABS ARE ACCEPTABLE ALTERNATIVES TO APA FOR MODULE FOOTINGS. NOTE: ALL PIPES TO CLR. SLEEVES BY 1" ALL AROUND -CAULK AS REQ'D FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY FABRICATION. PLYWOOD APPROVAL. FOUNDATIONS ARE DESIGNED AS "RESTRAINED FOUNDATION", IN 15. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS TO THE WOOD INDICATED ON THE DRAWINGS TO BE PRESSURE PRESERVATIVE ACCORDANCE WITH IR 23-6, TEMPORARY FOUNDATIONS. ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE TREATED (PPT) SHALL BE TREATED IN ACCORDANCE WITH AWPB NEAR SIDE A. ANCHOR FOOTINGS AT BUILDING PERIMETER WITH 1"Ø GALVANIZED CONCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1905A. ALL PROCEDURE LP-2 AND RELATED AWPA STANDARDS UNLESS OTHERWISE EXPIRES 3-31-00 STANDARD STEEL PIPES DRIVEN FLUSH WITH TOP OF WOOD NOT TO SCALE CONCRETE MIX DESIGNS SHALL BE SIGNED BY A CIVIL ENGINEER LICENSED NOTED. FOUNDATION PADS AND OTHER WOOD WITH GROUND CONTACT FOUNDATION PADS AND PENETRATING SOIL 12" MINIMUM AT AN IN CALIFORNIA. SHALL BE TREATED IN ACCORDANCE WITH AWPB PROCEDURE LP-22 AND AVERAGE SPACING OF 10'-0" O.C. AT SIDE WALLS AND AT EACH ON CENTER ALL GROUT SHALL BE NONMETALLIC NON-SHRINK HIGH STRENGTH GROUT CORNER OF EACH MODULE AT ENDWALLS OPPOSITE HAND/OVERHANG RELATED AWPA STANDARDS. ALL CUTS, HOLES AND NOTCHES SHALL BE BY MASTER BUILDERS OR EQUIVALENT AS APPROVED BY THE STRUCTURAL OPENING OPNG TREATED. ALL TREATED MEMBERS SHALL BE IDENTIFIED WITH STAMP ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE. ADJACENT ENGINEER. UTILIZE PRODUCTS RECOMMENDED BY THE MANUFACTURER FOR TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM OPP. **OPPOSITE** INDICATING TREATMENT PROCESS. EACH APPLICATION AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. BOLTS FOR TIMBER CONNECTIONS SHALL BE FULL DIAMETER BODY AND THESE RELOCATABLE BUILDINGS BY 2" MINIMUM. 17. REINFORCING AND EMBEDMENT ITEMS SHALL BE FREE OF EXCESSIVE SCALE 8 FINISH GRADES SHALL BE WITHIN MAXIMUM 18" BELOW BOTTOM OF FLOOR PER THE REQUIREMENTS OF ASTM A307, GRADE A AND ANSI/ASME OR RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCE THAT WILL IMPAIR STANDARD B18.2.1, UNLESS OTHERWISE NOTED. BOLTS SHALL BE JOISTS, WITHOUT EXCEPTION. PLATE BOND WITH CONCRETE. PRESSURE PRESERVATIVE TREATED INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 1995 <u> LIGHT GAGE - COLD FORMED STEEL FRAMING NL CBC95</u> 18. OWNER SHALL PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CBC PLYWOOD CALIFORNIA BUILDING CODE (CBC), CHAPTER 23A, AND CBC SECTION 2336 CHAPTER 17A FOR THE PLACEMENT OF CONCRETE AND CONCRETE 1. ALL LIGHT GAGE FRAMING SHALL BE PER THE REQUIREMENTS OF THE 1995 AND SHALL HAVE A MINIMUM BENDING YIELD STRENGTH OF 45,000 PSI. REINFORCEMENT, FOR BOLTS INSTALLED IN CONCRETE, FOR SAMPLING CALIFORNIA BUILDING CODE (CBC) AND THE SPECIFICATION FOR DESIGN OF REINF. REINFORCEMENT BOLT HOLES SHALL BE 1/16 INCH LARGER THAN BOLT DIAMETER. CONCRETE AND FOR REINFORCING STEEL WELDING. OWNER'S INSPECTOR REQD. REQUIRED COLD-FORMED STEEL STRUCTURAL MEMBERS OF THE AMERICAN IRON AND RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK, SHALL PROVIDE INSPECTION REPORTS TO THE ARCHITECT, ENGINEER, AND RWD. REDWOOD STEEL INSTITUTE (1986 WITH 1989 ADDENDUM) (1995 CBC SECTION LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1 OR CBC 9" MN. DIVISION OF THE STATE ARCHITECT. TABLE 23-III-UU. THE REQUIREMENTS OF THE 1995 CALIFORNIA BUILDING 19. ADDITIONALLY, PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH CCR 2 SHTHG. SHEATHING CODE, CHAPTER 23A, AND CBC SECTION 2337. HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE ALL LIGHT GAGE FRAMING SHALL BE PAINTED OR HOT-DIP GALVANIZED IN TITLE 24, PART 2, SECTION 1928A. A PLACING RECORD SHALL BE SIMILAR ACCORDANCE WITH ASTM C955 (PROTECTIVE COATING G60 FOR GALVANIZED MAINTAINED FOR ALL CONCRETE PLACED IN THE STRUCTURE. SQUARE AI TERNATE) SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE 20. A. PROVIDE CONTINUOUS INSPECTION AT CONCRETE BATCH PLANT, OR: STANDARD ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BORED TO 70% OF THE SHANK DIAMETER. PROVIDE FULL DIAMETER BODY, NOTE: ALL PIPES TO CLEAR SLEEVES BY 1" ALL AROUND — CAULK AS REQUIRED. B. THE QUANTITIES OF CONCRETE MATERIALS SHALL BE CERTIFIED BY STAGGERED CBC AND THE STRUCTURAL WELDING CODE - SHEET STEEL OF THE STEEL LAG SCREWS WITH MINIMUM BENDING YIELD STRENGTHS PER TABLES PIPE NEVER TO BE MORE THAN 2'-6" BELOW BOTTOM OF FOOTING; A LICENSED WEIGHMASTER AND THE QUALITY OF MATERIALS SHALL STIFFENER AMERICAN WELDING SOCIETY, AWS D1.3, LATEST REVISION. 23-III-T AND 23-III-U IN THE 1995 CBC. STEP FOOTING IF REQUIRED PER TYPICAL STEP DETAILS. BE VERIFIED BY THE OWNER'S TESTING AGENCY. COMPLY WITH ALL SHEARWALL PROVIDE MALLEABLE IRON WASHERS OR STANDARD CUT PLATE WASHERS ALL SCREWS SHALL BE TEKS/TRAXX SELF-DRILLING SCREWS BY ITW SYM. REQUIREMENTS OF TITLE 24, PART 2, SECTION 1928A.5.2 AND SYMMETRICAL UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD. BUILDEX, OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1, THE 21. ALL CONCRETE WORK SHALL BE FORMED. CASTING OF FOUNDATION T&B TOP & BOTTOM PIPES AT FOOTINGS REQUIREMENTS OF THE 1995 CALIFORNIA BUILDING CODE, CHAPTER 23A, ALL COLD FORMED STEEL PRODUCTS TO BE UTILIZED SHALL BE INCLUDED T&G TONGUE & GROOVE CONCRETE AGAINST SIDES OF FOOTING EXCAVATIONS SHALL NOT BE IN EVALUATION REPORTS OF THE INTERNATIONAL CONFERENCE OF BUILDING AND CBC SECTION 2339. WOOD SCREWS SHALL BE STEEL, WITH MINIMUM THRU ALLOWED EXCEPT AS SPECIFICALLY APPROVED BY ARCHITECT, STRUCTURAL THROUGH OFFICIALS (ICBO) VERIFYING ALL SECTION AND STRENGTH PROPERTIES BENDING YIELD STRENGTHS PER TABLES 23-III-DD AND 23-III-EE IN THE TOE NAIL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. 1995 CBC AND CUT THREADS. LEAD HOLES FOR SCREWS SHALL BE 7/8 NECESSARY FOR DESIGN, AND SHALL BE IN CONFORMANCE W/ ICBO 22. DRILLED IN CONCRETE EXPANSION BOLTS SHALL BE "KWIK-BOLT-II" BY ACCEPTANCE CRITERIA AC46. CHECKED △ - REVISED OF THE SHANK DIAMETER AT THE SHANK (UNTHREADED PORTION) AND 7/8 TOP OF CONCRETE HILTI, INC., PER ICBO APPROVAL NO. 4627, OR APPROVED EQUIVALENT. LIGHT GAGE - COLD FORMED STEEL MEMBERS SHALL BE PER ASTM A653, OF THE THREAD ROOT DIAMETER FOR THE THREADED PORTION OF THE TOP OF STEEL T.O.S. CONCRETE EPOXY TYPE ANCHORS SHALL BE "HIT" BY HILTI, INC., PER STRUCTURAL QUALITY UNLESS NOTED OTHERWISE, MEMBERS 18 GA. AND TUBE STEEL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES ICBO 5193, OR EQUIVALENT. INSTALL CONCRETE EXPANSION AND EPOXY WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON THE LIGHTER SHALL HAVE A YIELD STRENGTH (Fy) OF 33,000 PSI AND 16 GA. TYPICAL 6-30-97 ANCHORS PER ALL REQUIREMENTS OF THE MANUFACTURER, THE AND HEAVIER MEMBERS SHALL HAVE A YIELD STRENGTH OF 50,000 PSI. STRUCTURAL DRAWINGS. APPLICABLE ICBO APPROVALS, AND TITLE 24, PART 2, SECTION 1925A.3.5. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SEE B & C FOR MINIMUM REQUIRED PROPERTIES OF MEMBERS. UNLESS OTHERWISE NOTED USE EXPANSION AND EPOXY ANCHORS ONLY WHERE SHOWN ON THE SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER. ASTM AGOT GR. 55 CAN BE USED AS AN ALTERNATIVE TO ASTM AG53 FOR DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER AND VERTICAL 97007 PSPC1 MEMBERS. LIGHT GAGE COLD FORMED STEEL MEMBERS. STRUCTURAL STEEL: NS\_CBC95 WORK POINT The first of the second ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE ASTN A36 UNLESS WELDED WIRE FABRIC NOTED OTHERWISE. WINDOW 24'x40' BLDG. **DESIGN CRITERIA:** TUBE MEMBERS SHALL BE ASTM A500 GRADE B. (Fy = 46,000 PSI) 20 PSF SNOW LOAD @ ROOF. ALL BOLTS SHALL BE ASTM A307 MACHINE BOLTS (INCLUDING 50 PSF LIVE LOAD & FLOOR (CLASSROOM). 75 MPH WIND, EXPOSURE C. ROOF LIVE LOAD SUPPLEMENTARY REQUIREMENT ST PER ASTM) UNLESS NOTED OTHERWISE. FLOOR LIVE LOAD SEISMIC ZONE 4 W/ RW = 6. SEISMIC ZONE





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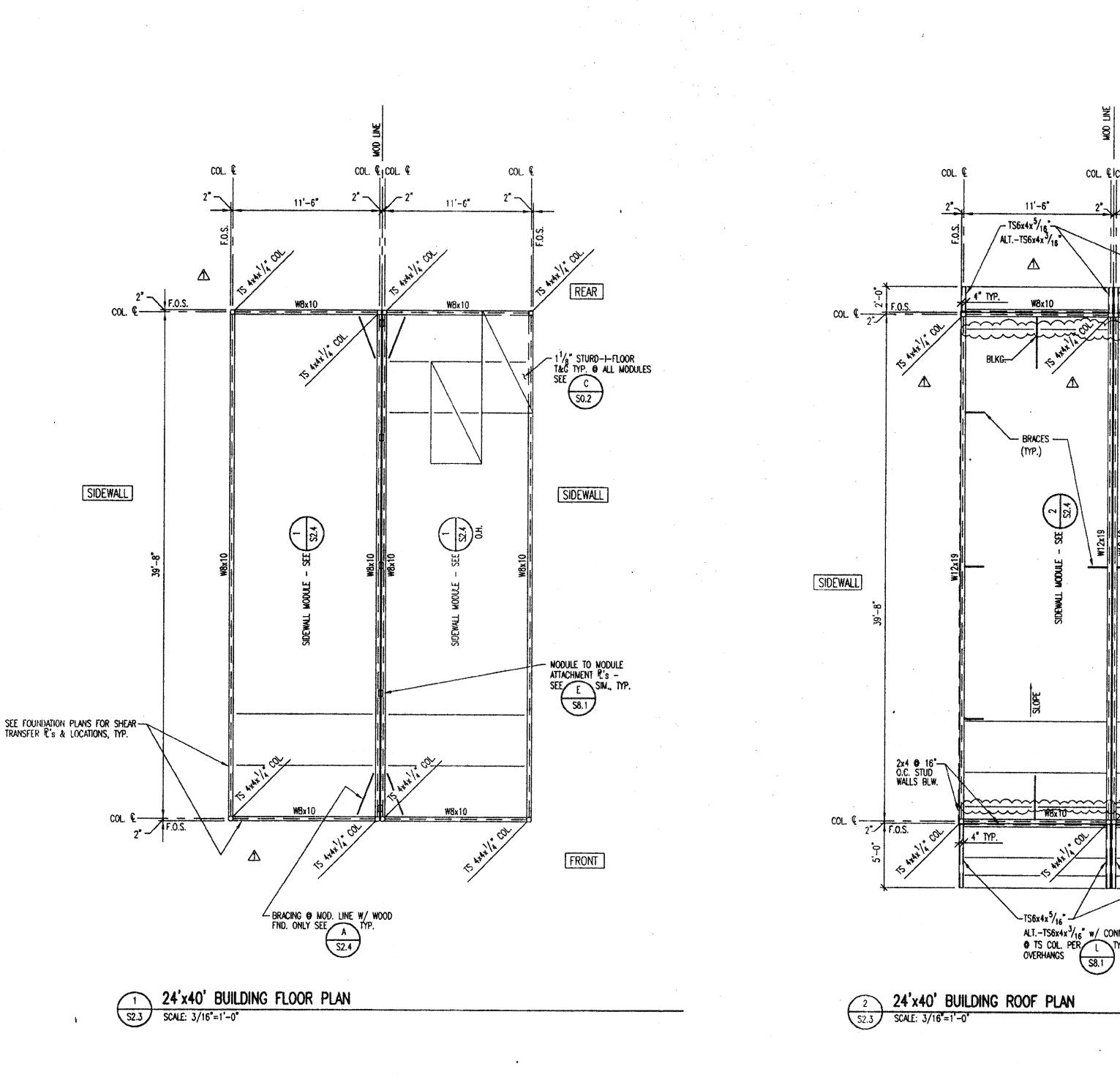
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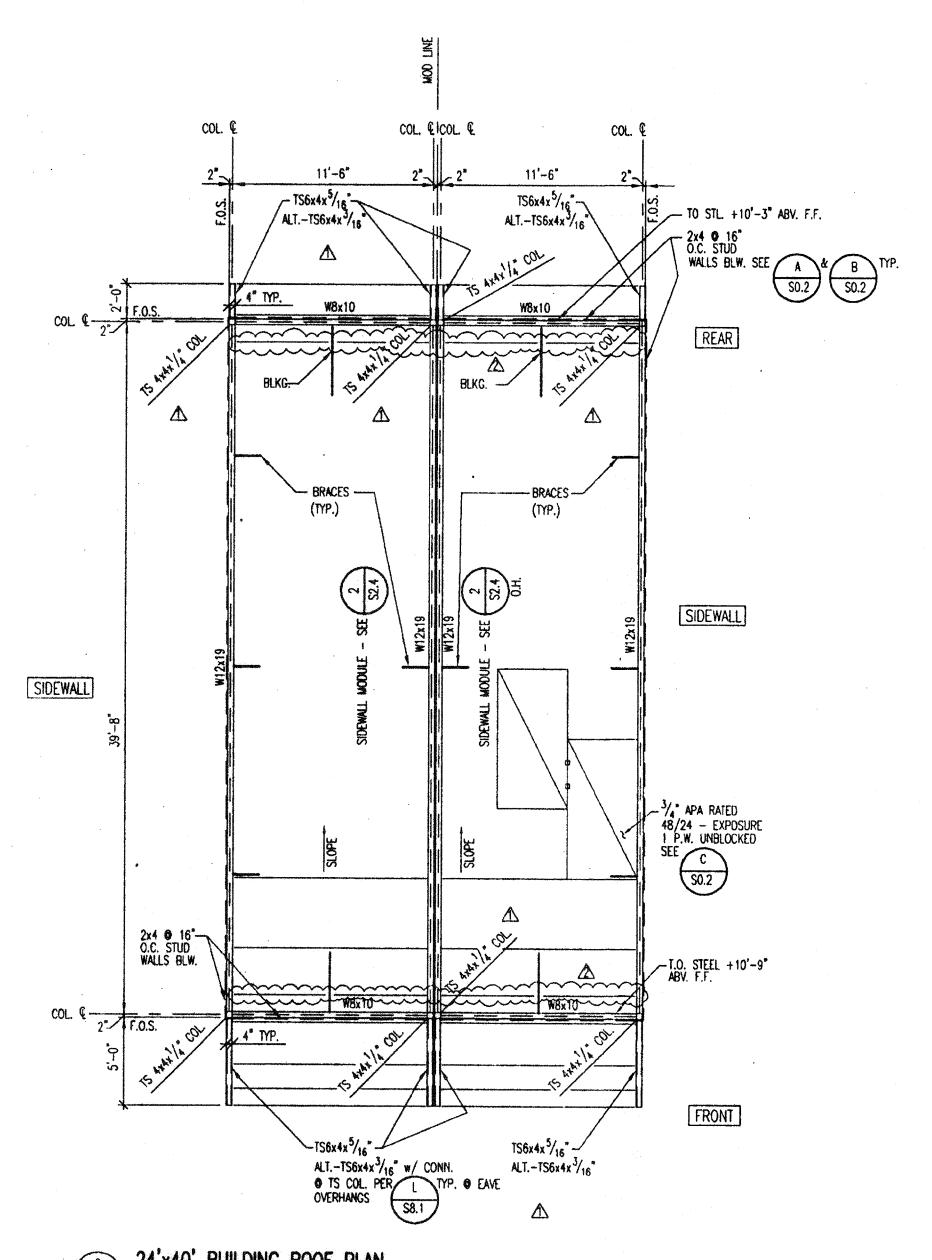
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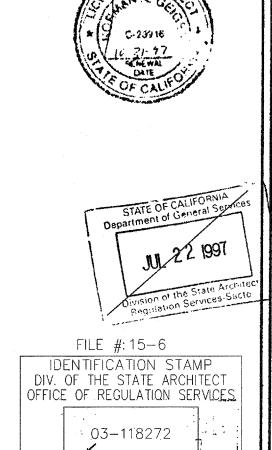
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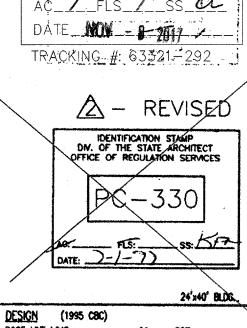
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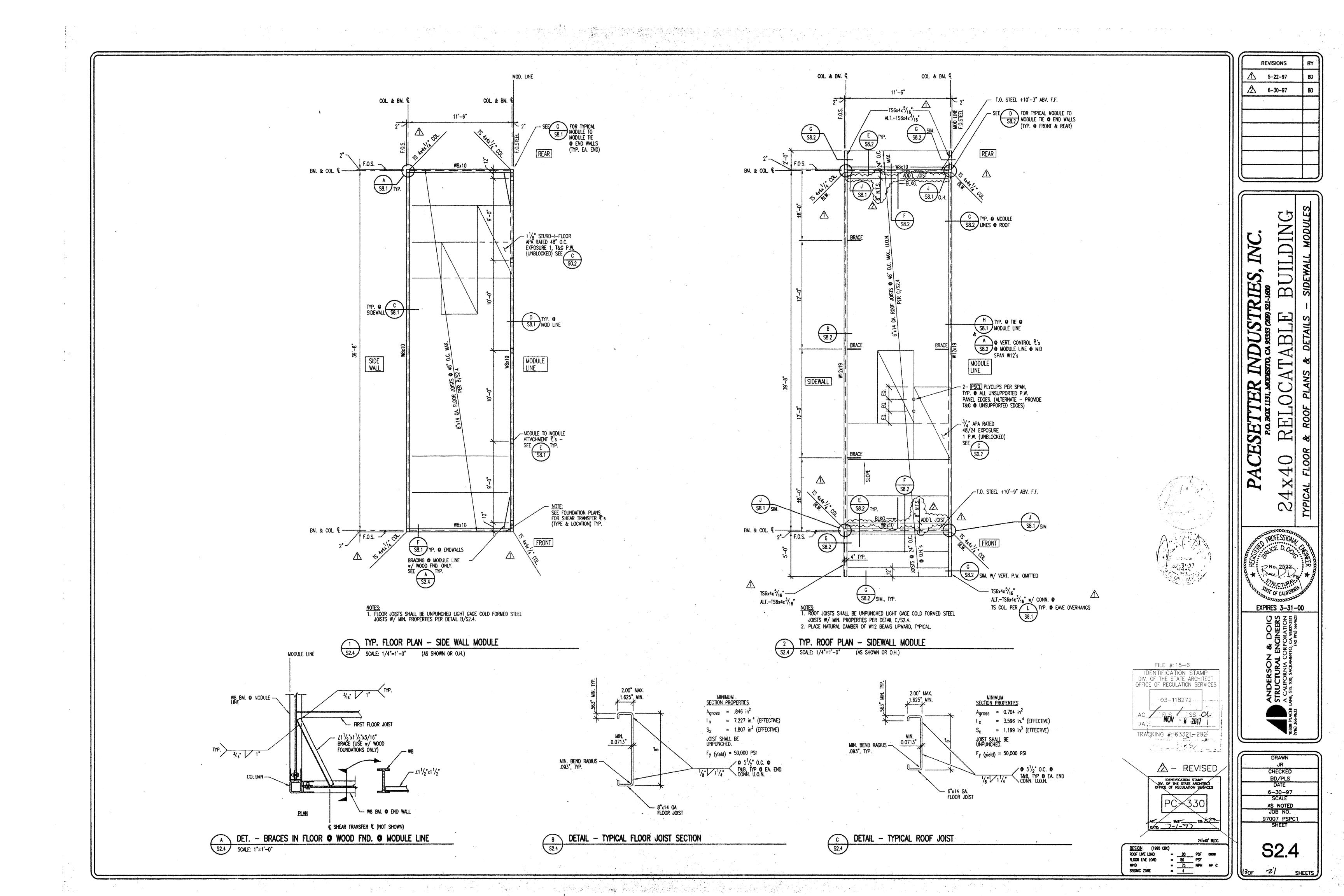


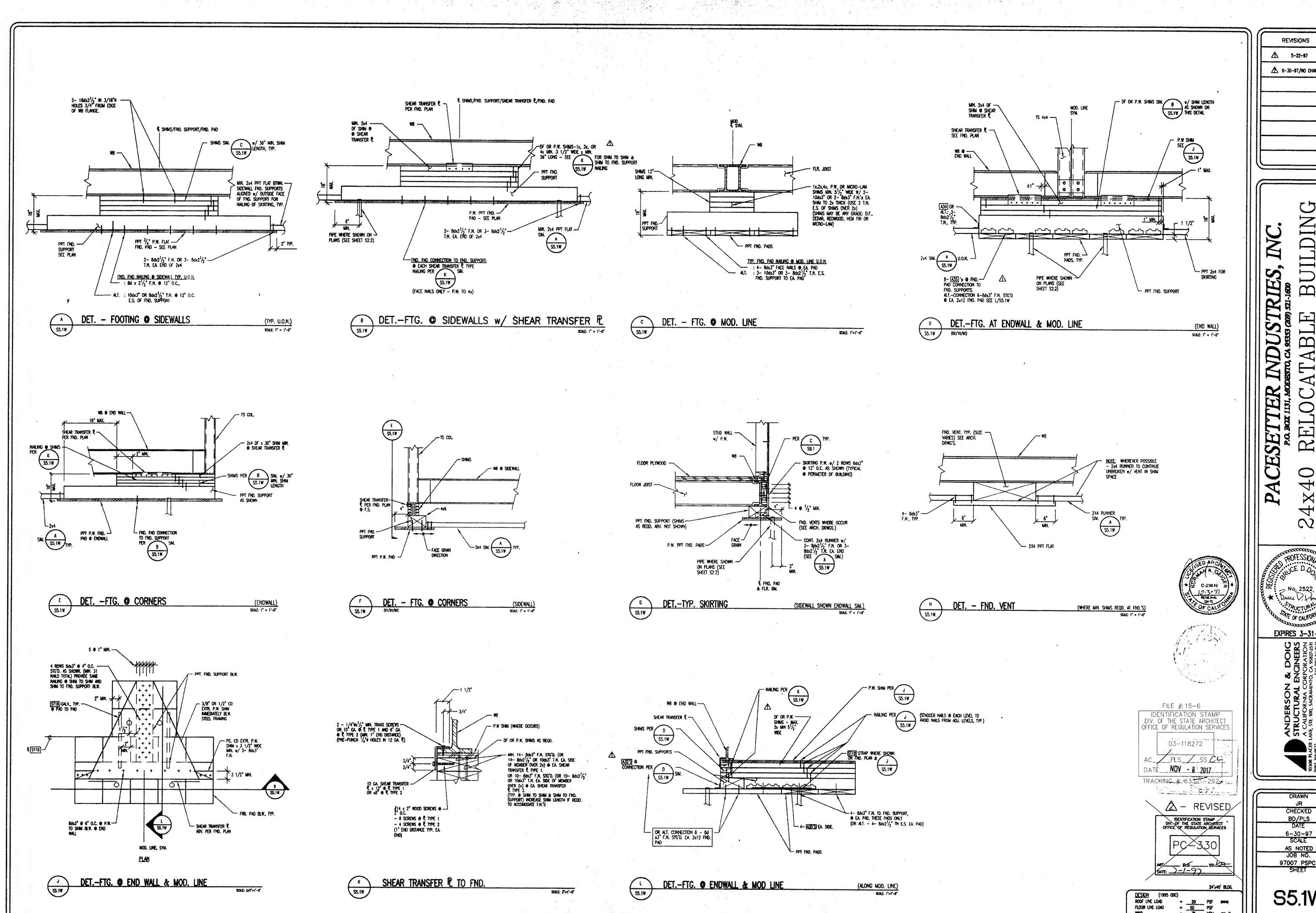






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