PITTSBURG UNIFIED SCHOOL DISTRICT

INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE, PITTSBURG CA 94565

DSA APPLICATION #01-120174

ABBREVIATIONS

Ø	DIAMETER OR ROUND
&	AND
AB	ANCHOR BOLT
ABV	ABOVE
ACT	ACOUSTICAL CEILING TILE
A/C	AIR CONDITIONED
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATIVE
ANCH	ANCHOR
APPRO	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ATT	ATTACHMENT
AUTO	AUTOMATIC
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
B.O.	BOTTOM OF
BOT	BOTTOM
BU	BUILT-UP
C	CHANNEL
CAB	CABINET
CB	CATCH BASIN
CC	CENTER TO CENTER
CEM	CEMENT
CH	COAT HOOK
CJT	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CNTR	COUNTER
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CRPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSUNK
CW	COLD WATER
DBL	DOUBLE
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPOSAL
DN	DOWN
DSA	DIVISION OF THE STATE ARCHITECT
DSP	DRY STANDPIPE
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
E	EAST
(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
EQ	EQUAL
EQUIPT	EQUIPMENT
EW	EACH WAY
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD METAL SCREW
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FG	FINISH GRADE
FIXT	FIXTURE
FL	FLUSH
FLR	FLOOR (ING)
FLASH	FLASHING
FLUOR	FLUORESCENT
F.O.	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FPRF	FIREPROOF
FR	FIRE RESISTIVE
FS	FULL SIZE
FSS	FOLDING SHOWER SEAT
FT	FIRE TREATED
FT	FOOT OR FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FXD	FIXED
G	GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	GLASS
GSM	GALVANIZED SHEET METAL
GYP	GYPSUM
GWB	GYPSUM WALLBOARD
HB	HOSE BIBB
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
H.P.	HIGH POINT
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HW	HOT WATER
ID	INSIDE DIAMETER
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
KO	KNOCKOUT
L	ANGLE
LAM	LAMINATE
LAV	LAVATORY
LBL	LABEL
LBS	POUNDS
L.P.	LOW POINT
LT	LIGHT
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MR	MOP RACK
MTD	MOUNTED
MTL	METAL
MUL	MULLION
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
NOM	NOMINAL
NR	NON-RATED
NTS	NOT TO SCALE
O/	OVER
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIMENSION
OH	OVAL HEAD
OPER	OPERABLE
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PH	PAN HEAD
PL	PLATE
P/L	PROPERTY LINE
PLAS	PLASTER
PLUMB	PLUMBING
PLY	PLYWOOD
PR	PAIR
PT	POINT
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
QTY	QUANTITY
R	RISER
RAD	RADIUS
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REFRIG	REFRIGERATOR
REQ	REQUIRED
RES	RESILIENT
RET	RETAINING
RH	ROUND HEAD
RM	ROOM
RND	ROUND
RWL	RAINWATER LEADER
S	SOUTH
SAD	SEE ARCHITECTURAL DRAWINGS
SB	SPLASH BLOCK
SCD	SEE CIVIL DRAWINGS
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SED	SEE ELECTRICAL DRAWINGS
SH	SHELF
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLD	SEE LANDSCAPE DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SQ	SQUARE
SSD	SEE STRUCTURAL DRAWINGS
SST	STAINLESS STEEL
ST	STREET
STD	STANDARD
STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRICAL
T	TREAD
T	TEMPERED
T&G	TONGUE AND GROOVE
THK	THICKNESS
THRESH	THRESHOLD
T.O.	TOP OF
TOC	TOP OF CURB
TOP	TOP OF PAVEMENT
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
WC	WATER CLOSET
WD	WOOD
W	WIDE FLANGE
WH	WATER HEATER
W/O	WITHOUT
WSCT	WAINSCOT
WR	WASTE RECEPTACLE
WT	WEIGHT
Z	ZEE SECTION

SEE A1.0 FOR SYMBOL LEGEND

GENERAL NOTES

A. **GENERAL**

1. THE CONTRACT DOCUMENTS INCLUDE THESE DRAWINGS AND THE SPECIFICATIONS.

2. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

3. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS, IF ANY, SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO INSTALLED HAVE BEEN ACCCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. SEE LIST OF DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.

4. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

5. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1 TITLE 24, CCR.

6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

7. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS 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 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), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFIYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVD BY THE DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317-(C), PART 1, TITLE 24, CCR).

8. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

9. USE OF ANY MATERIAL CONTAINING ASBESTOS IS PROHIBITED.

9.1 EXISTING CONSTRUCTION MAY CONTAIN HAZARDOUS MATERIALS. REVIEW THE OWNER'S HAZARDOUS MATERIALS REPORT FOR INFORMATION. REMOVE ANY HAZARDOUS MATERIALS PRIOR TO COMMENCING WORK.

10. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BIDS TO REVIEW EXISTING CONDITIONS OF AREA OF THE WORK.

11. COMPLIANCE WITH CALIFORNIA BUILDING CODE CHAPTER 33 SAFETY DURING CONSTRUCTION, IS REQUIRED AND WILL BE ENFORCED BY THE DISTRICT.

12. AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THE ARCHITECT'S JOBSITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.

13. MEANS AND METHODS: CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. CONTRACTOR SHALL SELECT AND USE TOOLS, SCAFFOLDING, SHORING, EQUIPMENT AND LABOR AND METHODS THAT ARE APPROPRIATE AND ADEQUATE TO COMPLETE THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING THE WORK.

14. PERFORM ALL WORK IN AN ORDERLY MANNER WITHOUT DAMAGE TO OTHER PARTS OF THE BUILDING OR ADJACENT PROPERTIES. PROTECT ANY ADJACENT COMPLETED WORK OR PARTS OF THE BUILDING TO REMAIN WITH MEANS AVAILABLE TO CONTRACTOR INCLUDING BUT NOT LIMITED TO: BARRICADES, PROTECTION BOARDS, DROPCLOTHS, OR TEMPORARY REMOVAL FOR REINSTALLATION, IF PERMITTED BY OWNER. ANY RESULTING DAMAGE OR LOSS SHALL BE REPAIRED OR CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

15. THE CONTRACTOR SHALL BARRICADE THE WORK AREA TO PREVENT ACCESS BY UNAUTHORIZED PERSONS.

B. **DOCUMENTS**

1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO DESCRIBE LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR WORK UNDER THIS CONTRACT. INCLUDE ALL WORK SHOWN, PRESCRIBED, OR REASONABLY IMPLIED BY THE CONTRACT DOCUMENTS. WHERE WORK OR EQUIPMENT IS INDICATED "NOT IN CONTRACT", SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION. NOT IN CONTRACT ITEMS ARE NOT PART OF DSA APPROVAL.

2. THE CONTRACT DOCUMENTS, INCLUDING THE SPECIFICATIONS AND PLANS AND DRAWINGS, ARE COMPLIMENTARY AND WHAT IS CALLED FOR BY ANY ONE SHALL BE AS BINDING AS IF CALLED FOR BY ALL. SUBSEQUENT ADDENDA, INTERPRETATIONS, OR CHANGE ORDERS SHALL GOVERN OVER THE ORIGINAL DOCUMENTS, UNLESS A DIFFERENT ORDER OF PRECEDENCE IS NOTED ELSEWHERE IN CONJUNCTION WITH A SPECIFIC PORTION OF THE DOCUMENTS.

3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. ELEMENTS WITHIN THE DRAWINGS ARE DESCRIBED USING ABSTRACT GRAPHIC SYMBOLS AND CONVENTIONS, WHICH REPRESENT BUILDING ELEMENTS.

4. ALL ITEMS INDICATED ARE NEW WORK UNLESS NOTED AS EXISTING OR (E).

5. THESE GENERAL NOTES APPLY TO THE ENTIRE WORK OF THIS CONTRACT.

6. WITHIN THE DRAWINGS, OTHER GENERAL NOTES OCCUR WHICH DESCRIBE SPECIFIC TYPES OF WORK OR PROCEDURES, SUCH AS "DEMOLITION GENERAL NOTES". THESE NOTES APPLY TO ALL SIMILAR TYPES OF WORK OR PROCEDURES WITHIN THE ENTIRE CONTRACT.

7. SHEET NOTES APPLY TO THE DRAWING SHEET ON WHICH THEY OCCUR. KEYNOTES REFER TO SPECIFIC ITEMS ON THE DRAWINGS, AND A KEYNOTE NUMBER ON ONE SHEET SHALL HAVE THE SAME MEANING ON EVERY SHEET.

8. ALL REQUESTS FOR CLARIFICATIONS OF THESE DRAWINGS SHALL BE DIRECTED TO THE ARCHITECT. REVIEW THE DOCUMENTS IN ADVANCE OF SCHEDULING THE WORK, AND MAKE REQUESTS FOR CLARIFICATION SUFFICIENTLY IN ADVANCE TO AVOID DELAY.

9. DO NOT SCALE DRAWINGS.

10. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO DEMOLITION, FABRICATION, ASSEMBLY, OR INSTALLATION OF ANY WORK.

11. ITEMS INDICATED TO BE VERIFIED OR FIELD VERIFIED ARE REQUIRED TO BE VERIFIED PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH THE WORK. ITEMS SHALL BE VERIFIED FOR DESIGN INTENT AND COMPATIBILITY WITH APPROPRIATE BUILDING CODES.

12. NOT ALL CEILING APPURTENANCES (SMOKE DETECTORS, EXHAUST FANS, ACCESS DOORS, ETC.) ARE SHOWN. CONTRACTOR TO FIELD VERIFY AND TAKE APPROPRIATE ACTION TO ACCOMMODATE THESE ITEMS.

13. VERIFY ALL EXISTING CONDITIONS AND PROPOSED DIMENSIONS AT JOB SITE. EXISTING DIMENSIONS GIVEN ARE TAKEN FROM INFORMATION PROVIDED BY THE OWNER'S SURVEY. REVIEW ALL DRAWINGS AND DIMENSIONS BEFORE COMMENCING WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES. DO NOT PROCEED WITH WORK UNTIL DISCREPANCIES ARE RESOLVED.

14. WHERE ON ANY DRAWING A PORTION OF THE WORK IS DRAWN OUT AND THE REMAINDER IS INDICATED IN OUTLINE, THE DRAWN-OUT PARTS SHALL APPLY TO ALL OTHER LIKE PORTIONS OF THE WORK. WHERE ORNAMENT OR OTHER DETAIL IS INDICATED AS STARTING, SUCH DETAIL SHALL BE CONTINUED THROUGHOUT THE COURSES OR PARTS IN WHICH IT OCCURS AND SHALL ALSO APPLY TO OTHER SIMILAR PARTS IN THE WORK, UNLESS OTHERWISE INDICATED.

15. IN CASE OF CONFLICT BETWEEN THE DOCUMENTS, THE DOCUMENT CONTAINING ADDITIONAL QUANTITIES SHALL GOVERN IN MATTERS OF QUANTITY, AND THE DOCUMENT REQUIRING A HIGHER DEGREE OF QUALITY SHALL GOVERN IN MATTERS OF QUALITY. IN CASE OF CONFLICT WITHIN THE DRAWINGS INVOLVING QUANTITIES OR WITHIN THE SPECIFICATIONS INVOLVING QUALITY, THE GREATER QUANTITY AND THE HIGHER QUALITY SHALL BE FURNISHED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL SUCH QUANTITY AND QUALITY CONFLICTS AND SHALL AGREE UPON RESOLUTION, IN WRITING, PRIOR TO PROCEEDING.

16. STRUCTURAL DRAWINGS GOVERN FOR SPACING AND SIZING FOR ALL STRUCTURAL MEMBERS, REINFORCING AND INSTALLATION DETAILS. VERIFY ANY CONFLICT BETWEEN STRUCTURAL AND OTHER DOCUMENTS WITH THE ARCHITECT PRIOR TO PROCEEDING.

17. WORK NOT DETAILED, MARKED OR SPECIFIED IN PARTICULAR, WILL BE AS SIMILAR WORK THAT IS DETAILED, MARKED, OR SPECIFIED. ALL TYPICAL DETAILS SHALL BE USED WHERE APPLICABLE UNLESS NOTED OTHERWISE. ALL DETAILS SHALL BE CONSIDERED TYPICAL AT SIMILAR CONDITIONS.

18. THE TERM "TYPICAL" (TYP) SHALL MEAN APPLYING TO ALL LIKE OR SIMILAR CONDITIONS IN THE AREAS DESIGNATED FOR WORK.

19. DIMENSIONS GIVEN AS NOMINAL ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MUST BE VERIFIED THROUGH FIELD LAYOUT.

20. ALL PLAN DIMENSIONS ARE GIVEN TO FACE OF FINISH AND CENTERLINE OF WINDOWS UNLESS OTHERWISE NOTED. VERTICAL DIMENSIONS GIVEN TO TOP OF SLAB AND TOP OF PLYWOOD FLOOR OR ROOF SHEATHING UNLESS OTHERWISE NOTED.

21. ALL DOORS ARE DIMENSIONED FROM ADJACENT WALL TO HINGE SIDE OF FRAME ACCORDING TO TYPICAL DOOR FRAME DETAIL, UNLESS OTHERWISE NOTED.

22. SEE DOOR AND WINDOW SCHEDULES FOR UNIT DIMENSIONS. SEE THE SCHEDULE OF KEYNOTES FOR A LIST OF KEYNOTES FOR THIS PROJECT. IF ANY KEYNOTE ON ANY ARCHITECTURAL SHEET IS ILLEGIBLE OR MISSING REFER TO THE SCHEDULE OF KEYNOTES.

23. MATCH LINES ARE INDICATORS OF WHERE ADJOINING FLOOR PLANS MEET. SEE PLANS ON BOTH SIDES OF MATCH LINES FOR WORK OVERLAPPING MATCH LINE.

C. **FIELD CONDITIONS**

1. THE CONTRACTOR SHALL MAINTAIN THE PUBLIC RIGHTS OF WAY AFFECTED BY CONSTRUCTION CLEAN AND FREE OF ALL SOIL, DEBRIS, TRASH, ETC., ON A DAILY BASIS. MAINTAIN SIDEWALKS, MEANS OF EGRESS, CORRIDORS, STAIRS, ETC., CLEAR, UNOBSTRUCTED AND FREE OF ALL SOIL, DEBRIS, TRASH, ETC., ON A DAILY BASIS. CLEAN EGRESS SHALL BE MAINTAINED AT ALL TIMES FOR ALL BUILDING OCCUPANTS.

2. THE CONTRACTOR SHALL SECURE PERMIT FROM GOVERNING AGENCIES FOR WORK IN RIGHTS OF WAY AND/OR SCAFFOLDING.

3. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS AND TO PROTECT THEM FROM DAMAGE. THE DISTRICT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIRED OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH PROSECUTION OF THIS WORK.

4. EXISTING UTILITIES AND IMPROVEMENTS DAMAGED DURING THE COURSE OF THE WORK SHALL BE PROMPTLY REPAIRED. EXISTING UTILITIES AND IMPROVEMENTS DAMAGED, FOR WHICH LOCATIONS WERE UNKNOWN, SHALL BE IMMEDIATELY BROUGHT TO THE OWNER'S AND ARCHITECT'S ATTENTION AND PROMPTLY REPAIRED AT HIS/HER DIRECTION. THE WORK REQUIRED TO REPAIR DAMAGED EXISTING UTILITIES AND IMPROVEMENTS FOR WHICH LOCATIONS WERE UNKNOWN WILL BE REVIEWED AND TAKEN UNDER CONSIDERATION AS EXTRA WORK.

D. **FIRE SAFETY**

1. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 CHAPTER 33.

2. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE SECTION 503.

3. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH SECTION 903.

4. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS BUILDINGS, HYDRANTS OR FIRE APPLIANCES.

5. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH CFC CHAPTER 33.

6. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH CFC CHAPTER 33.

7. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

8. PENETRATIONS OF FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.

9. OBTAIN APPROVAL FROM LOCAL FIRE AUTHORITY PRIOR TO STORAGE OF CONSTRUCTION MATERIAL AND AFFECTED CONSTRUCTION IN EXISTING OCCUPIED BUILDING.

10. PROTECT SMOKE DETECTORS NEAR CONSTRUCTION AREAS WITH A VISQUEEN OR SIMILAR WRAP. REMOVE PROTECTION AT END OF EACH WORKING DAY.

11. ALL FIRE ALARM INITIATING DEVICES (ALARM BOXES) TO BE MOUNTED PER T-24 CCR PART 3 ARTICLE 760-9.

12. ALL FIRE DAMPER ASSEMBLIES, INCLUDING SLEEVES AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO THE INSTALLATION.

13. ANY NEW EXIT SIGN SHALL BE INTERNALLY ILLUMINATED AND THE WORD 'EXIT' SHALL BE GREEN ON OPAQUE BACKGROUND PER CBC SECTION 1013.

14. PROVIDE TWO SEPARATE CIRCUITS FOR ANY NEW EXIT SIGNS TO CONFORM TO CBC SECTION 1013.6.3.

15. ALL CEILING AND MECHANICAL EQUIPMENT PLENUMS THAT ARE NEW OR TO RECEIVE NEW WORK SHALL BE CLEAN AND FREE OF DEBRIS PRIOR TO CLOSING IN AND PRIOR TO RETURN AIR FAN START-UP.

E. **EXTERIOR ACCESSIBILITY**

1. ALL NEW WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL, AND SHALL BE A MINIMUM OF 48" WIDE.

2. ALL NEW SURFACES WITH A SLOPE LESS THAN 6 PERCENT GRADIENT SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM BROOM FINISH.

3. ALL NEW SURFACES WITH A SLOPE GREATER THAN 6 PERCENT GRADIENT SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A HEAVY BROOM FINISH.

4. ALL NEW SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4 INCH PER FOOT.

5. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE AT LEAST 5 FEET IN LANDING LENGTH AT INTERVALS OF EVERY 30 INCHES IN VERTICAL RISE.

6. SURFACE SLOPE FOR ACCESSIBLE PARKING SPACES FOR THE PHYSICALLY DISABLED SHALL NOT EXCEED 1/4 INCH PER FOOT IN ANY DIRECTION.

7. WALKS SLOPING > 5% SHALL BE CONSTRUCTED AS RAMPS. SLOPE OF PAVED AREAS SHALL NOT EXCEED 8.33%.

F. **INTERIOR ACCESSIBILITY**

1. ALL HOT WATER AND DRAINPIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

2. ALL FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN FIVE POUNDS.

3. ACCESSIBLE TOILET ROOM IDENTIFICATION SYMBOLS ARE TO BE PROVIDED PER CCR TITLE 24 AT ACCESSIBLE TOILET FACILITIES.

4. ANY NEW DRINKING FOUNTAIN SHALL BE ACTIVATED BY A CONTROL WHICH IS EASILY OPERATED BY A PHYSICALLY CHALLENGED PERSON SUCH AS A HAND-OPERATED LEVER TYPE CONTROL LOCATED WITHIN 6 INCHES OF THE FRONT OF THE DRINKING FOUNTAIN, ETC. THE BUBBLER SHALL BE SUBSTANTIALLY PARALLEL TO THE FRONT EDGE OF THE DRINKING FOUNTAIN.

G. **CONSTRUCTION**

1. PENETRATIONS IN FIRE RATED ASSEMBLIES AND BEARING WALLS SHALL BE PROTECTED AS REQUIRED BY CBC CHAPTER 7.

2. ALL NEW FINISH MATERIALS SHALL BE MAINTAINED IN A FLAME RETARDANT CONDITION. (CCR T-19, SEC. 1.14, 3.08, 3.21).

3. ANY NEW FURRED CEILINGS SHALL BE CONSTRUCTED AS REQUIRED IN CBC SEC. 2504 AND TABLE 2508.1.

4. ANY NEW SUSPENDED ACOUSTICAL CEILING BOARD SHALL BE NON-COMBUSTIBLE.

5. ALL NEW WALL AND CEILING MATERIALS IN EXIT CORRIDORS SHALL COMPLY WITH CBC SEC. 803.

H. **ROOFING AND INSULATION**

1. WHERE CEILING OR ROOF MOUNTED EQUIPMENT/ PENETRATIONS ARE REQUIRED TO BE REMOVED OR INSTALLED/ RE-INSTALLED, PROVIDE ROOFING AND FLASHING TO ACCOMMODATE THE CONDITION.

2. ALL INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 2.5311 B.E.E.S.-1986. ROOF INSULATION SHALL MEET CBC SECTION 1508 AND WALL INSULATION SHALL MEET CBC SECTION 719.

3. ALL ROOFING SHALL BE CLASS A FIRE RETARDANT.

I. **DEMOLITION**

1. DEMOLISH AND REMOVE FROM THE PREMISES ALL PARTS OF THE EXISTING BUILDING INDICATED FOR DEMOLITION OR REQUIRED TO BE DEMOLISHED FOR THE INSTALLATION OF NEW WORK.

2. ALL ITEMS NOTED TO BE SALVAGED SHALL BE RETURNED TO THE OWNER. THE OWNER RETAINS THE RIGHT TO SALVAGE ANY EXISTING MATERIAL INDICATED OR REQUIRED TO BE REMOVED OR DEMOLISHED.

3. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND FIELD VERIFYING DEMOLITION REQUIREMENTS IN RELATION TO CONSTRUCTION DRAWINGS. THE ARCHITECT IS TO BE NOTIFIED OF ANY CONFLICTS, DISCREPANCIES OR PROBLEMS.

4. CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM ACCUMULATION OF DEBRIS CAUSED BY ITS OPERATIONS. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL CLEAN ALL GLASS SURFACES AND LEAVE THE WORK IN A CLEAN CONDITION READY FOR OCCUPANCY.

GOVERNING CODES AND STANDARDS

1. LIST OF APPLICABLE CODES – FEDERAL ACCESSIBILITY
AMERICANS WITH DISABILITIES ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
ANSI STANDARDS: ANSI A117.1 2003.

2. LIST OF APPLICABLE CODES - CALIFORNIA CODE OF REGULATIONS
2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1 TITLE 24 C.C.R.
2019 CALIFORNIA BUILDING CODE (CBC) PART 2, VOL 1-2, TITLE 24 C.C.R.
(2018 INTERNATIONAL BUILDING CODE W/ 2019 CALIFORNIA AMENDMENTS)
2018 CALIFORNIA ELECTRICAL CODE (CEC) PART 3 TITLE 24 C.C.R.
(2017 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R
(2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24 C.C.R
(2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE (CENC) PART 6,TITLE 24 C.C.R.
2010 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE PART 7, TITLE 24 C.C.R.
2019 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24 C.C.R.
(2017 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
2018 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
C.C.R. TITLE 19 - REGULATIONS OF THE STATE FIRE MARSHAL

3. PARTIAL LIST OF APPLICABLE STANDARDS-AS AMENDED BY CA
REFERENCE CODE FOR STANDARDS – CBC (SFM) CHAPTER 35

NFPA 13-2016:	AUTOMATIC SPRINKLER SYSTEMS - CA AMENDED
NFPA 14-2013:	STANDPIPE AND HOSE SYSTEMS - CA AMENDED
NFPA 17-2013:	DRY CHEMICAL EXTINGUISHING SYSTEMS
NFPA 17A-2013:	WET CHEMICAL EXTINGUISHING SYSTEMS
NFPA 20-2016:	STATIONARY FIRE PUMPS FOR FIRE PROTECTION
NFPA 24-2016:	PRIVATE FIRE SERVICE MAINS - CA AMENDED
NFPA 25-2013:	INSPECTION,TESTING,MAINTENANCE WATER BASED SYSTEMS
NFPA 72-2016:	NATIONAL FIRE ALARM CODE - CA AMENDED
NFPA 80-2016:	FIRE DOORS AND OTHER OPENING PROTECTIVES
NFPA 110-2016:	EMERGENCY AND STANDBY POWER SYSTEMS
NFPA 170-2015:	STANDARD FOR FIRE SAFETY AND EMERGENCY SYSMBOLS
NFPA 253-2015:	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS
NFPA 2001-12:	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS AS AMENDED
SFM 12-10-1	POWER OPERATED EXIT DOORS
SFM 12-10-2	SINGLE POINT LATCHING OR LOCKING DEVICES
SFM 12-10-3	EMERGENCY EXIT AND PANIC HARDWARE
UL 38	MANUAL OPERATING SIGNAL BOXES, 1999 EDITION W/ REVISIONS THROUGH FEBRUARY 2, 2005 AS AMENDED.
UL 268	SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 2009 EDITION
UL 268A	SMOKE DETECTORS DUCT APPLICATIONS, 1998 EDITION W/ REVISIONS THROUGH OCTOBER 22, 2003.
UL 305	PANIC HARDWARE 2012 EDITION
UL 464	AUDIBLE SIGNAL APPLIANCES, 2016 EDITION
UL 346	WATER FLOW INDICATORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION.
UL 464	AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION
UL 864	CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2003 EDITION W/ REVISIONS THROUGH FEBRUARY 2009.
UL 2034	STANDARD FOR SINGLE- AND MULTIPLE STATION CARBON MONOXIDE ALARMS, 2008 EDITION W/ REVISIONS THROUGH FEBRUARY 2009.

4. LIST OF ADMINISTRATIVE REQUIREMENTS CALIFORNIA CODE OF REGULATIONS, PART1, TITLE 24, CHAPTER 4 (PARTIAL LISTING ONLY)

1. A COPY OF PARTS 1-5, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.

2. ALL CONSTRUCTION CHANGE DOCUMENTS (CCD) AND ADDENDA TO BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.

3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED T & I SHEET.

4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.

5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.

6. INSPECTOR SHALL BE APPROVED BY DSA AND EMPLOYED BY THE SCHOOL DISTRICT. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(B). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.

7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.

8 . CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.

9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(A) AND 4-341, PART 1, TITLE 24.

10. THE CONTRACTOR SHALL PERFORM ITS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.

11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CONSTRUCTION CHANGE DOCUMENT (CCD) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

STATEMENT OF GENERAL CONFORMANCE

THE DRAWINGS LISTED IN THE DRAWING INDEX AS MECHANICAL, ELECTRICAL, FIRE ALARM AND PC DRAWINGS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1. (TITLE 24, PART 1 SECTION 4-317 (b))

I CERTIFY THAT THE DRAWINGS LISTED ABOVE ARE IN GENERAL CONFORMANCE AND HAVE BEEN COORDINATED.

SIGNATURE: [signature] DATE: 6 APRIL 2022

ARCHITECT DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE.
CHAD HAMILTON

LICENSE NUMBER: C15932 EXPIRATION: 12/30/2023

PROJECT TEAM

OWNER

PITTSBURG UNIFIED SCHOOL DISTRICT
1151 STONEMAN AVENUE,
PITTSBURG, CA 94565

ARCHITECT

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET, SUITE 400 415.974.5030
SAN FRANCISCO, CA 94107

MECHANICAL ENGINEER

H&M MECHANICAL GROUP
8517 EARHART ROAD, SUITE 230 510.569.2000
OAKLAND, CA 94621

ELECTRICAL ENGINEER

ALLIANCE ENGINEERING CONSULTANTS, INC.
407 PATRIC HENRY DRIVE, BUILDING 10 408.970.9888
SANTA CLARA, CA 95054

SCOPE OF WORK

THE SCOPE OF WORK FOR THIS PROJECT INCLUDES:

1. PLACEMENT OF THREE RELOCATABLE CLASSROOM BUILDINGS TWO FROM STOCKPILE INDICATED AS AE36, AE37 (PC# 61614 STOCKPILE DSA# 01-112222) AND ONE FROM STOCKPILE (PC# 02-101236 STOCKPILE DSA# 02-105136) INDICATED AS AE 38.
2. INTERIOR IMPROVEMENT INCLUDING PARTITIONS AND FINISHES.
3. SITE AND UTILITY WORK.
4. OTHER WORK AS INDICATED.

DEFERRED APPROVAL

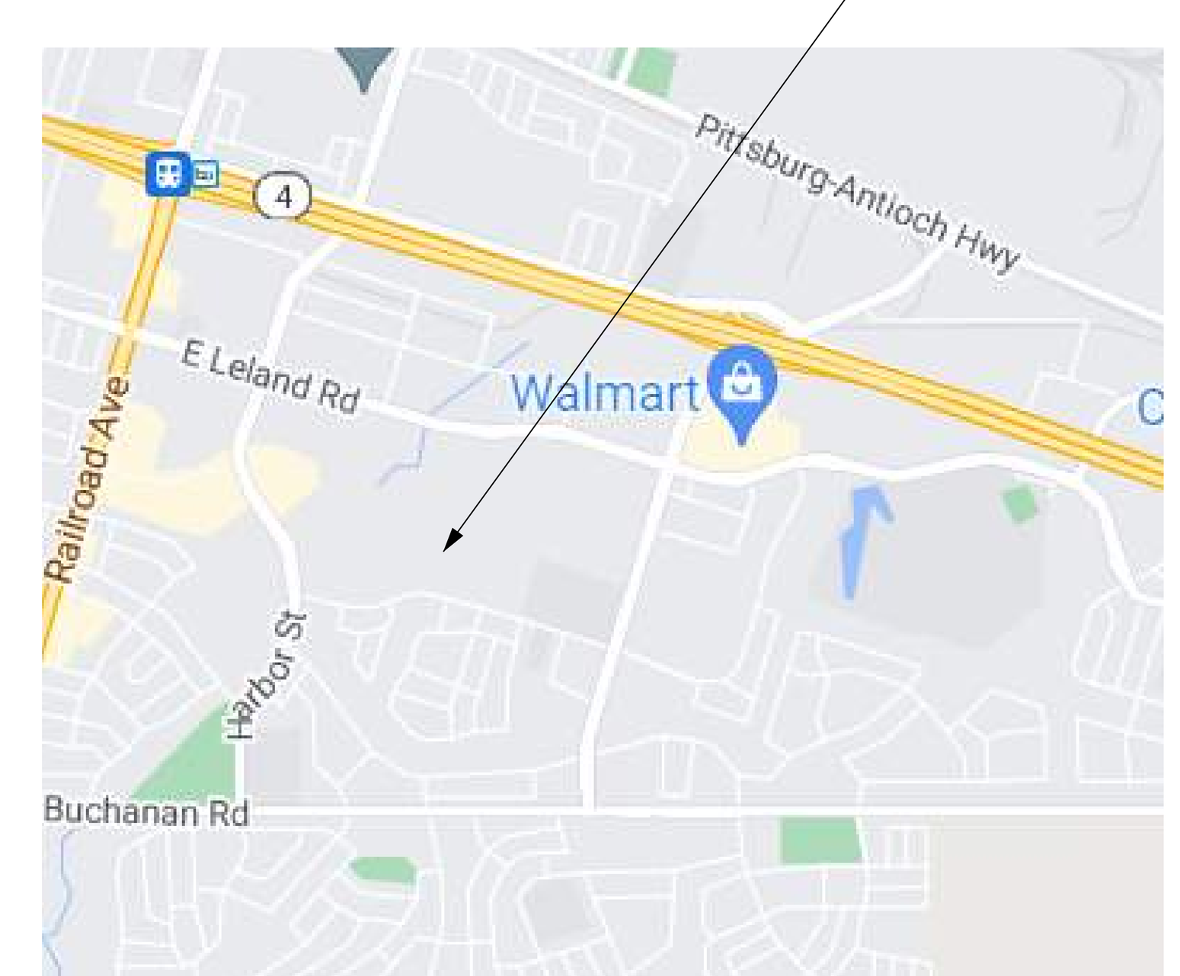
NONE

ALTERNATES

NONE

VICINITY MAP

PITTSBURG UNIFIED SCHOOL
1151 STONEMAN AVENUE, PITTSBURG CA 94565



THE SITE IS IN AN AREA INDICATED AS HAVING MINIMAL FLOOD HAZARD ACCORDING TO FEMA FLOOD MAPS.

DRAWING INDEX

SHEET COUNT: 84

ENERGY ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT CHAD HAMILTON C15932 Ren.12/30/23 STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22
3	RE-BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

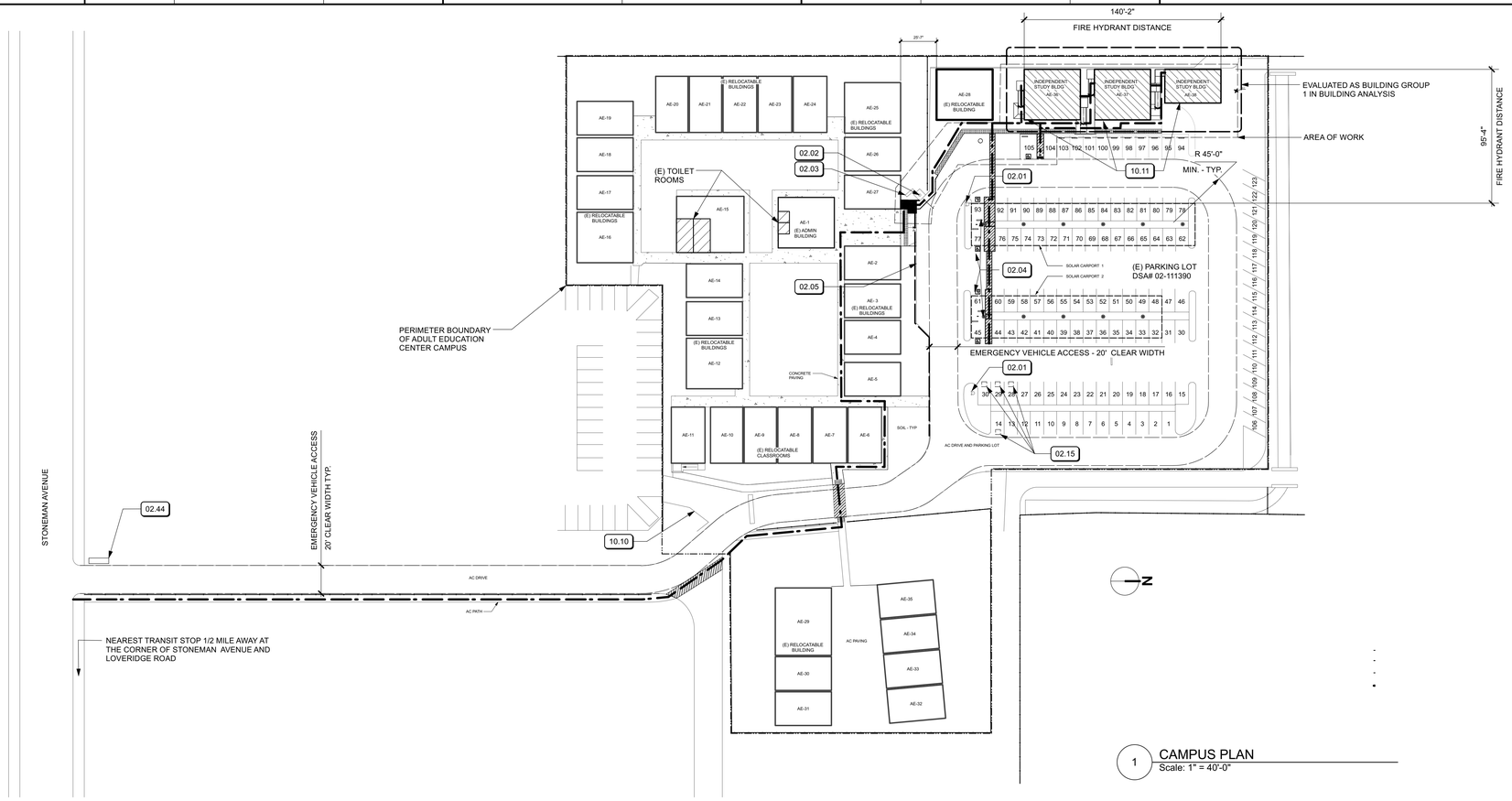
GENERAL INFORMATION, GENERAL NOTES & DRAWING INDEX

SHEET NUMBER

A0.1

CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040



1 CAMPUS PLAN
Scale: 1" = 40'-0"

KEY NOTES

REF	KEY	NOTE
	02.01	(E) FIRE HYDRANT
	02.02	(E) FLAG POLE ON CONCRETE PEDESTAL
	02.03	(E) SIGN MONUMENT
1/A1.1	02.04	(E) ACCESSIBLE PARKING SPACE
	02.05	(E) RED-PAINTED NO PARKING CURB - REPAINT RED CURB ALONG DASHED LINE INDICATED
	02.15	REMOVE (E) ACCESSIBILITY SYMBOL FROM NON-ACCESSIBLE PARKING STALLS
	02.44	(E) CAMPUS IDENTIFICATION SIGN - "PITTSBURG ADULT EDUCATION CENTER - 1151 STONEMAN AVENUE" - LETTERS 4" H. MINIMUM WITH 1/2" W. MINIMUM STROKE WIDTH - BLACK LETTERS ON WHITE SIGNBOARD
5/A1.10	10.10	UNAUTHORIZED PARKING IN ACCESSIBLE PARKING SPACES SIGN - ATTACH TO (E) CHAIN LINK FENCE
2/A1.10	10.11	BUILDING IDENTIFICATION SIGN ON FACE OF BUILDING

SYMBOL LEGEND

- COLUMN LINES
- EXTERIOR ELEVATION — SHEET ON WHICH ELEVATION OCCURS
- AREA IDENTITY/ PLAN — VESTIBULE = ROOM NAME; A104 = AREA IDENTITY; A = BUILDING AREA OR IDENTITY; 104 = ROOM NUMBER
- 3/A5.1+ INTERIOR ELEVATION DESIGNATION AND DRAWING NUMBER WHERE ELEVATION IS SHOWN; A,B,C, OR D = ELEVATION IDENTITIY
- SECTION — SHEET ON WHICH SECTION OCCURS
- DETAIL REFERENCE — SHEET ON WHICH DETAIL OCCURS
- CASEWORK TYPE - SEE CASEWORK SCHEDULE
- MATCH LINE
- DIMENSION OR WORK POINT
- ROOM NUMBER
- DOOR/ GATE NUMBER — MULTIPLE DOOR DESIGNATION CORRESPONDS TO ROOM #
- PARTITION TYPE — SPECIAL TREATMENT IDENTIFICATION; PARTITION NUMBER
- WINDOW SCHEDULE REFERENCE
- REVISION DESIGNATION
- SPOT ELEVATION IN FEET — G = GRADE, I = INVERT
- CEILING HEIGHT — ABOVE FINISH FLOOR
- KEYNOTE REFERENCE — C.S.I. DIVISION NUMBER.
- KEYNOTE LEGEND
- KEYNOTE TEXT — KEYNOTE NUMBER; DETAIL REFERENCE - DRAWING NO. / SHEET NUMBER
- WALL TYPE IDENTIFICATION
- SIGNAGE IDENTIFICATION; SIGNAGE DETAIL
- PAINT TYPE IDENTIFICATION

LEGEND

- (E) FIFIRE HYDRANT
- (E) FENCE
- FENCE
- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL AND EGRESS TO PUBLIC WAY

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT — C15932 — Ren.12/30/23 — STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE

CAMPUS PLAN, BUILDING ANALYSIS & PATH OF TRAVEL

SHEET NUMBER

A1.0

CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			/	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.				
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

DSA

810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings.*

PROJECT INFORMATION	
School District/Owner:	PITTSBURG UNIFIED SCHOOL DISTRICT
Project Name/School:	PUSD INDEPENDENT STUDIES PROGRAM FACILITIES
Project Address:	1151 STONEMAN AVENUE PITTSBURG, CA 94565

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

PATH OF TRAVEL STATEMENT

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:12 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

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

BUILDING ANALYSIS

BUILDING NAME	DSA #	BUILDING AREA (GSF)	STORIES	FIRE SPRINK.	CONST. TYPE	OCCUPANCY
(E) BUILDING AE-1	68488	1,440 SF	1	N	VB	E
(E) BUILDING AE-2	68488	960 SF	1	N	VB	E
(E) BUILDING AE-3	68488	960 SF	1	N	VB	E
(E) BUILDING AE-4	68488	960 SF	1	N	VB	E
(E) BUILDING AE-5	68488	960 SF	1	N	VB	E
(E) BUILDING AE-6	68488	960 SF	1	N	VB	E
(E) BUILDING AE-7	68488	960 SF	1	N	VB	E
(E) BUILDING AE-8	68488	960 SF	1	N	VB	E
(E) BUILDING AE-9	68488	960 SF	1	N	VB	E
(E) BUILDING AE-10	68488	960 SF	1	N	VB	E
(E) BUILDING AE-11	68488	960 SF	1	N	VB	E
(E) BUILDING AE-12	68488	1,440 SF	1	N	VB	E
(E) BUILDING AE-13	68488	960 SF	1	N	VB	E
(E) BUILDING AE-14	68488	960 SF	1	N	VB	E
(E) BUILDING AE-15	68488	1,920 SF	1	N	VB	E
(E) BUILDING AE-16	68488	1,440 SF	1	N	VB	E
(E) BUILDING AE-17	68488	960 SF	1	N	VB	E
(E) BUILDING AE-18	68488	960 SF	1	N	VB	E
(E) BUILDING AE-19	68488	960 SF	1	N	VB	E
(E) BUILDING AE-20	68488	960 SF	1	N	VB	E
(E) BUILDING AE-21	68488	960 SF	1	N	VB	E
(E) BUILDING AE-22	68488	960 SF	1	N	VB	E
(E) BUILDING AE-23	68488	960 SF	1	N	VB	E
(E) BUILDING AE-24	68488	960 SF	1	N	VB	E
(E) BUILDING AE-25	68488	1,440 SF	1	N	VB	E
(E) BUILDING AE-26	68488	960 SF	1	N	VB	E
(E) BUILDING AE-27	68488	960 SF	1	N	VB	E
(E) BUILDING AE-28	68488	1,440 SF	1	N	VB	E
(E) BUILDING AE-29	01-111390	19,920 SF	1	N	VB	E
(E) BUILDING AE-30	01-111390	960 SF	1	N	VB	E
(E) BUILDING AE-31	01-111390	960 SF	1	N	VB	E
(E) BUILDING AE-32	01-111390	960 SF	1	N	VB	E
(E) BUILDING AE-33	01-111390	960 SF	1	N	VB	E
(E) BUILDING AE-34	01-11074	960 SF	1	N	VB	E
(E) BUILDING AE-35	01-11074	960 SF	1	N	VB	E
RELOCATABLE BUILDING AE-36		1,440 SF	1	N	VB	E
RELOCATABLE BUILDING AE-37		960 SF	1	N	VB	E
TOTAL BUILDING AREA		18,720 SF				
SOLAR CARPORT 1	01-111465	4,782 SF				
SOLAR CARPORT 2	01-111465	4,073 SF				
BUILDING GROUP 1 (2) RELOCATABLE BUILDINGS AE-36 & AE-37		2,400 SF	1	N	V-B	E
ALLOWABLE BUILDING AREA - E OCC		9,500 SF				AREA O.K.
TYPE V - B - NON-SPRINKLERED						

NOTE - THIS CAMPUS IS USED FOR ADULT EDUCATION, WHICH IS A B OCCUPANCY. THESE BUILDINGS ARE INDICATED AS E OCCUPANCY FOR FUTURE FLEXIBILITY FOR THE DISTRICT.

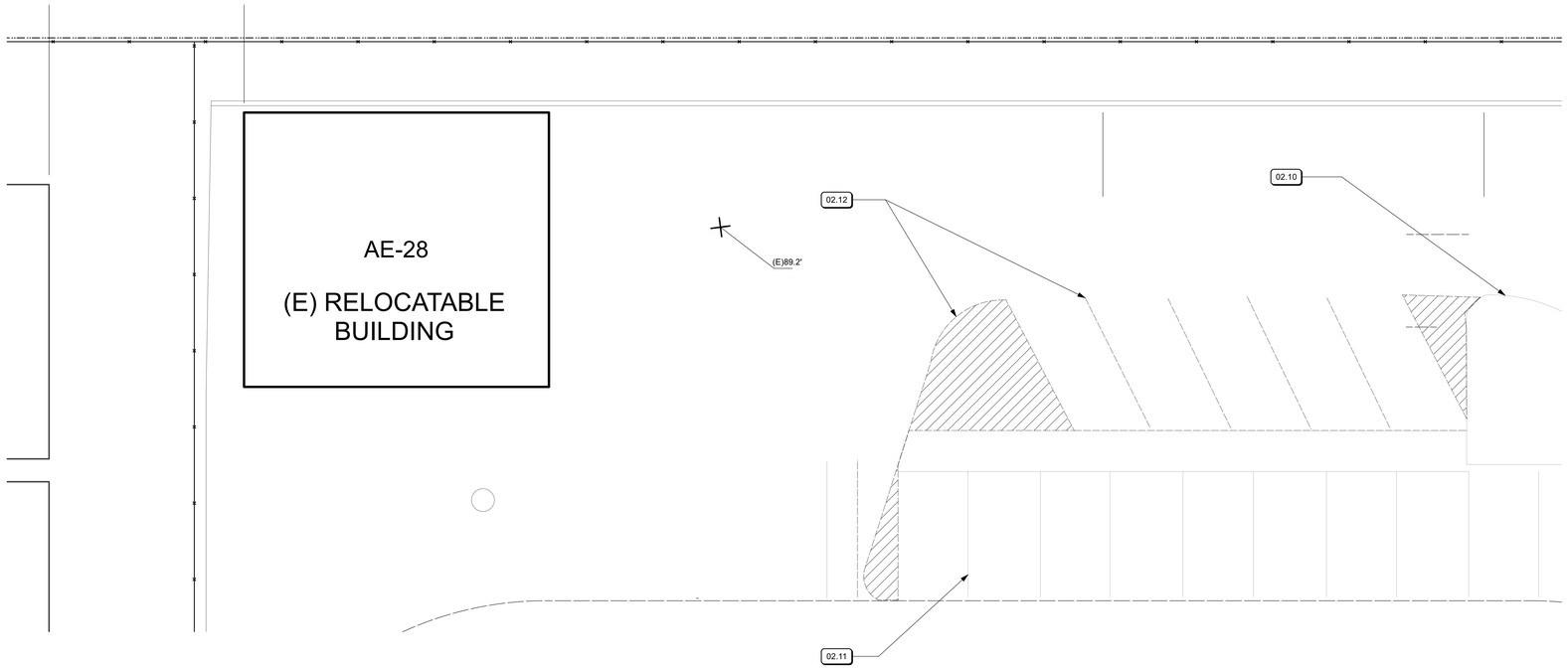
ACCESSIBLE PARKING SCHEDULE

NO.	DESCRIPTION	TOTAL PARKING SPACES	TOTAL ACCESSIBLE PARKING SPACES REQUIRED	ACCESSIBLE PARKING SPACES PROVIDED	VAN ACCESSIBLE SPACES REQUIRED	VAN ACCESSIBLE SPACES PROVIDED
	STUDENT, VISITOR AND STAFF PARKING	123	5	5	1	2

OF THE AVAILABLE PARKING, 44 SPACES OF THE TOTAL 123 SPACES ARE PROVIDED WITH SHADED, OR 36 PERCENT OF ALL SPACES ARE IN SHADE.

OF THE 5 ACCESSIBLE SPACES, 4 SPACES ARE PROVIDED WITH SHADE, OR 80% OF ACCESSIBLE SPACES ARE IN SHADE.

THEREFORE, THE NUMBER OF ACCESSIBLE SPACES IN SHADE EXCEEDS THE MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE IN SHADE FOR EQUIVALENT FACILITATION.



1 DEMO SITE PLAN
Scale: 1/8" = 1'-0"

KEYNOTES

REF	KEY	NOTE
	02.10	(E) CURB AND PLANTER TO REMAIN
	02.11	(E) PARKING LINES TO REMAIN
	02.12	REMOVE (E) PAINTED PARKING STRIPE LINES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
C.ANDMANILOW
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE

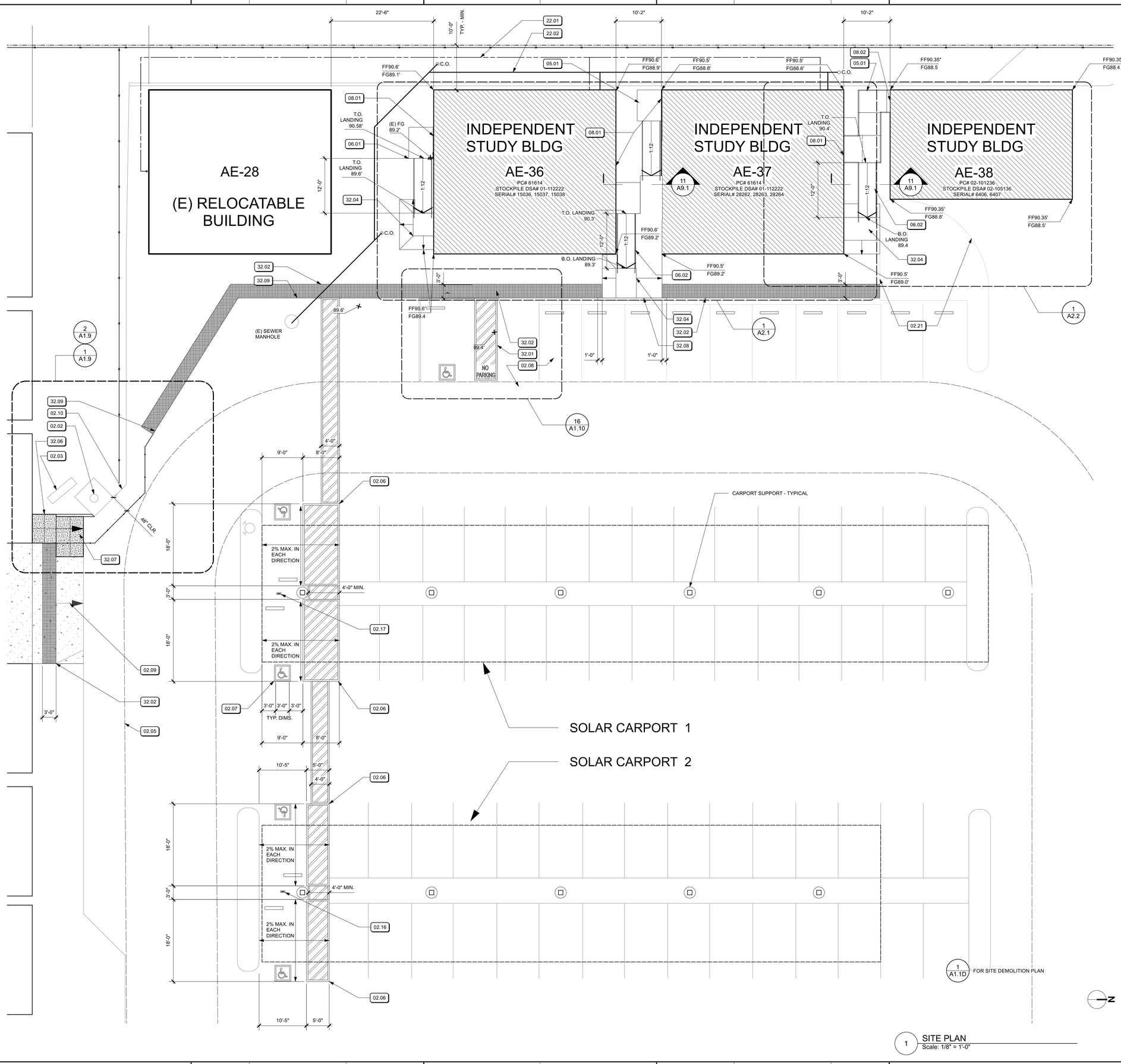
SITE DEMOLITION PLAN

SHEET NUMBER

A1.1D

CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040



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

KEYNOTES

REF	KEY	NOTE
	02.02	(E) FLAG POLE ON CONCRETE PEDESTAL
	02.03	(E) SIGN MONUMENT
	02.05	(E) RED-PAINTED NO PARKING CURB - REPAINT RED CURB ALONG DASHED LINE INDICATED
	02.06	(E) ACCESSIBLE PARKING SPACE ACCESS AISLE - 4" WIDE BLUE PERIMETER BORDER WITH 4" WIDE WHITE LINES 24" O.C. DIAGONALLY
	02.07	(E) INTERNATIONAL SYMBOL OF ACCESSIBILITY - WHITE FIGURE ON BLUE FIELD WITH 4" WHITE BORDER
	02.08	(E) STANDARD PARKING SPACE WITH PAINTED LINES TO REMAIN
	02.09	(E) CURB RAMP - 8.33% MAX. SLOPE
	02.10	(E) CURB AND PLANTER TO REMAIN
11/A1.10	02.16	(E) ACCESSIBLE PARKING SIGN
11/A1.10	02.17	(E) VAN ACCESSIBLE PARKING SIGN
	02.21	(E) 6" CURB
	05.01	SLOPE TMP PLATFORM DECKS 2% MAX. IN ALL DIRECTIONS
4/A1.10	06.01	RAMP, LANDING, AND RAILINGS - SEE A9.1R ON PC DRAWINGS 01-112222 - CLOSE ALL OPEN SIDES WITH PLYWOOD AS PART OF THIS WORK
4/A1.10	06.02	RAMP, LANDING, AND RAILINGS - SEE SHEET 2 ON PC DRAWINGS 04-119501 - CLOSE ALL OPEN SIDES WITH PLYWOOD AS PART OF THIS WORK
1/A6.0	08.01	THRESHOLD AND LANDING - SET LANDING 1/4" BELOW THRESHOLD - SEE PC# 61614
6/A4	08.02	THRESHOLD AND LANDING - SET LANDING 1/4" BELOW THRESHOLD - SEE PC# 02-101236
13 & 14/ A1.9	22.01	1"Ø SCHEDULE L COPPER WATER LINE IN TRENCH - CONNECT TO (E) 3/4" COPPER WATER LINE AT BUILDING AE-28
13 & 14/ A1.9	22.02	4" ABS SEWER LINE IN TRENCH TO (E) MANHOLE - CUT AND PATCH (E) AC PAVING AT TRENCH
	32.01	ACCESSIBLE PATH MARKING - 4" WIDE BLUE PERIMETER BORDER WITH 4" WIDE WHITE LINES 24" O.C. DIAGONALLY - 2% MAX. CROSS SLOPE AND 5% MAX SLOPE IN DIRECTION OF TRAVEL
1/A1.10	32.02	TRUNCATED DOMES ON (E) ASPHALT PAVING
7/A1.10	32.04	ASPHALT PAVING TRANSITION AT BASE OF RAMP - LANDING 2% MAX. SLOPE IN ANY DIRECTION - TRANSITION SLOPE 5% MAX. IN DIRECTION OF TRAVEL AND 2% MAX. CROSS SLOPE
5/A1.9	32.06	CONCRETE SIDEWALK - 2% MAX. CROSS SLOPE - SLOPE 1% IN DIRECTION OF TRAVEL
17/A1.9	32.07	SLOPED CONCRETE PAVING - 2% MAX. CROSS SLOPE - SLOPE AT 5% MAX. IN DIRECTION OF TRAVEL
11/A1.9	32.08	CONCRETE CURB
10/A1.10	32.09	CHAIN LINK PEDESTRIAN CONTROL FENCE - 3'-0" HIGH

LEGEND

- (E) FIFIRE HYDRANT
- (E) FI(E) CHAIN LINK FENCE
- FENCE
- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL AND EGRESS TO PUBLIC WAY

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
LENO HAMILTON
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE

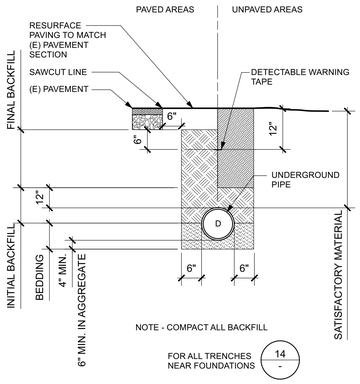
ENLARGED SITE PLAN

SHEET NUMBER

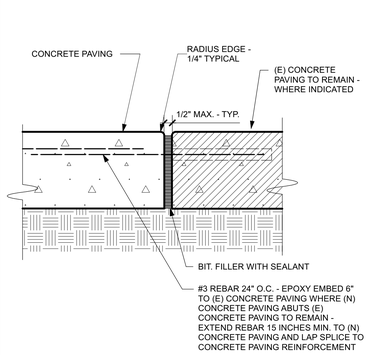
A1.1

CAD FILE: 22040_TTB.vwx

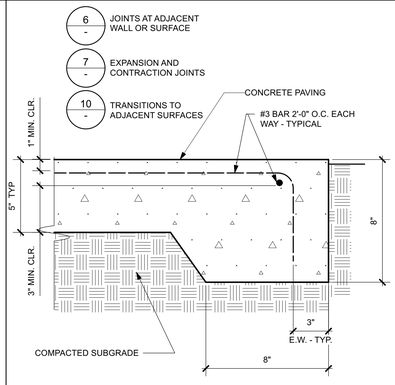
DATE	PROJECT NO.
4/6/2022	2022.040



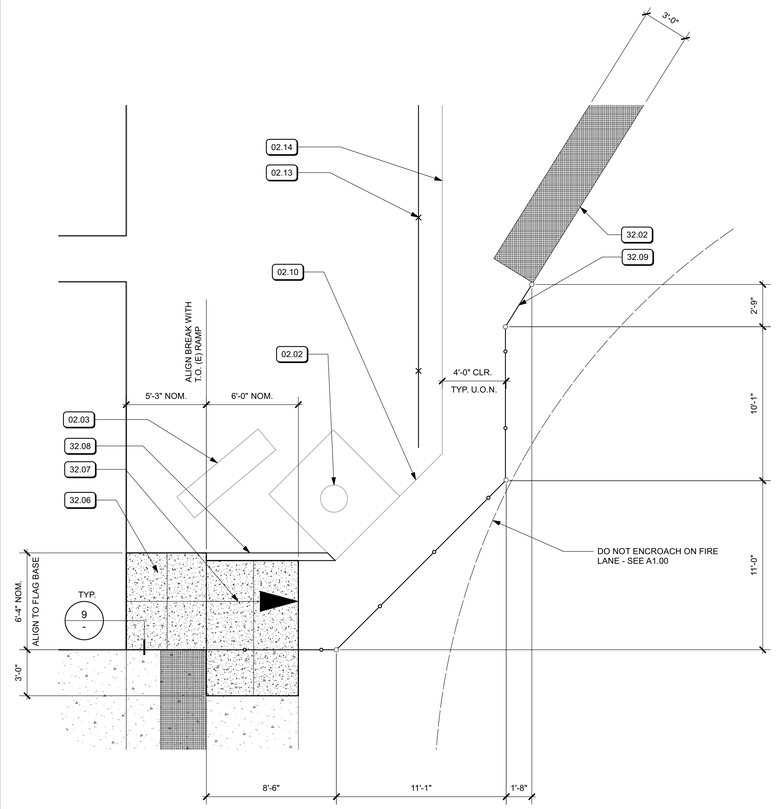
13 TYPICAL TRENCH
Scale: NTS



9 (N) CONCRETE PAVING AT (E) CONCRETE PAVING
Scale: 3" = 1'-0"

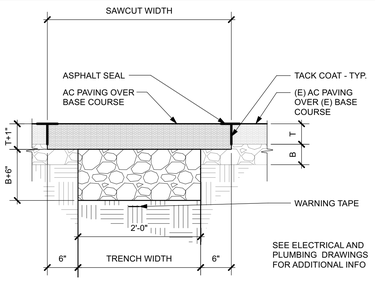


5 CONCRETE PAVING - TYPICAL
Scale: 3" = 1'-0"



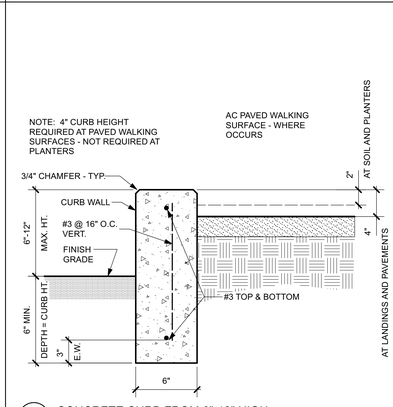
1 ENLARGED SIDEWALK PLAN
Scale: 1/4" = 1'-0"

REF	KEY	NOTE
	02.02	(E) FLAG POLE
	02.03	(E) SIGN MONUMENT
	02.10	(E) CURB AND PLANTER TO REMAIN
	02.13	(E) CHAIN LINK FENCE
	02.14	(E) CONCRETE CURB
	02.18	(E) TRUNCATED DOMES TO REMAIN
	02.19	SAWCUT AND REMOVE PART OF (E) CONCRETE FLARED CURB RAMP
	02.20	SAWCUT AND REMOVE PART OF (E) CONCRETE CURB
1/A1.10	32.02	TRUNCATED DOMES ON (E) ASPHALT PAVING
5/A1.9	32.06	CONCRETE SIDEWALK - 2% MAX. CROSS SLOPE - SLOPE 1% IN DIRECTION OF TRAVEL
17/A1.9	32.07	SLOPED CONCRETE PAVING - 2% MAX. CROSS SLOPE - SLOPE AT 5% MAX. IN DIRECTION OF TRAVEL
11/A1.9	32.08	CONCRETE CURB
10/A1.10	32.09	CHAIN LINK PEDESTRIAN CONTROL FENCE - 3'-0" HIGH

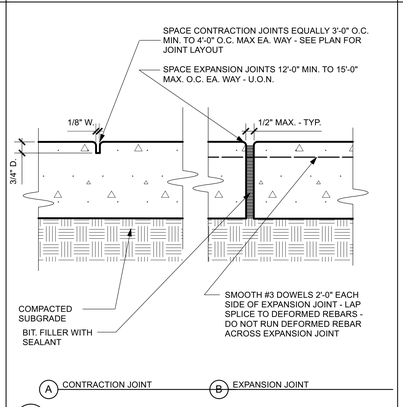


NOTES:
1. IF NOT OTHERWISE SPECIFIED, TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% R.C.
2. TEMPORARY PAVEMENT RESURFACING SHALL BE PLACED AT THE CONTRACTORS EXPENSE. IT SHALL BE PLACED LEVEL WITH THE EXISTING PAVEMENT ON COMPACTED TRENCH BACKFILL AND SHALL BE A MINIMUM OF 2" THICK.
3. PERMANENT PAVEMENT RESURFACING SHALL BE DONE WITHIN 2 WEEKS AFTER BACKFILL TRENCHES HAS BEEN COMPLETED, ONLY AFTER SETTLEMENT HAS TAKEN PLACE AND THE FILL SURFACE HAS SUFFICIENTLY DRIED. ALL CUTS SHALL BE GROOMED CLEAN AND STRAIGHT.

15 ASPHALT PAVING PATCH @ TRENCH - TYPICAL
Scale: 1" = 1'-0"

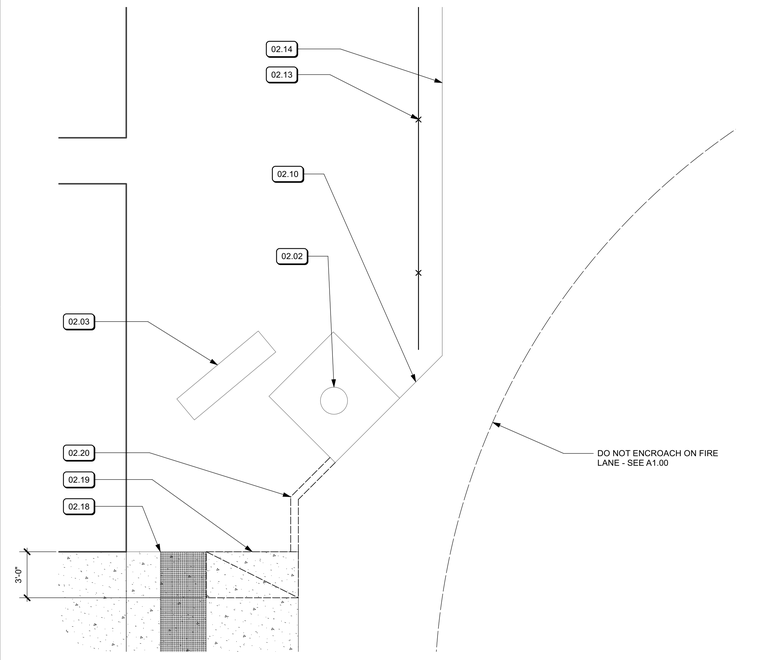


11 CONCRETE CURB FROM 6"-12" HIGH
Scale: 1 1/2" = 1'-0"

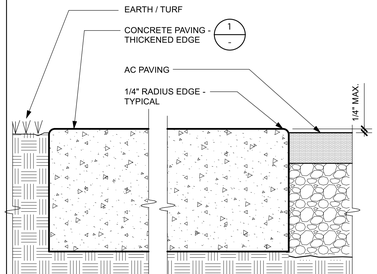


A CONTRACTION JOINT
B EXPANSION JOINT

7 CONCRETE PAVING JOINTS
Scale: 3" = 1'-0"



2 ENLARGED SIDEWALK DEMO PLAN
Scale: 1/4" = 1'-0"

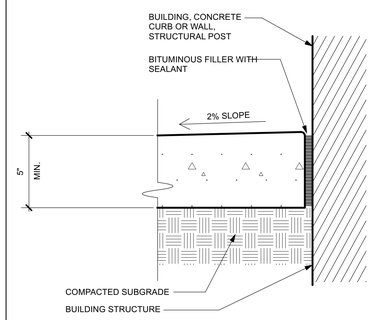


14 TYPICAL TRENCH AT BUIILDING FOUNDATION
Scale: NTS

A AT EARTH / TURF
Scale: 3" = 1'-0"

B AT AC PAVING
Scale: 3" = 1'-0"

10 CONCRETE PAVING TRANSITIONS
Scale: 3" = 1'-0"



6 CONCRETE PAVING JOINTS @ WALL/POST
Scale: 3" = 1'-0"

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
LYNDA HAMILTON
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

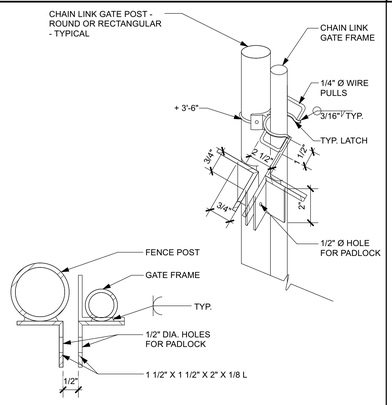
KEY PLAN

DRAWING TITLE
SITE DETAILS

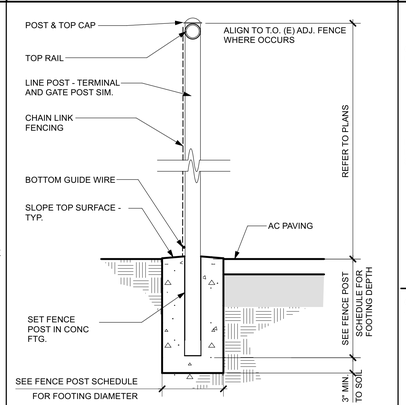
SHEET NUMBER
A1.9

CAD FILE: 22040_TTB.vwx

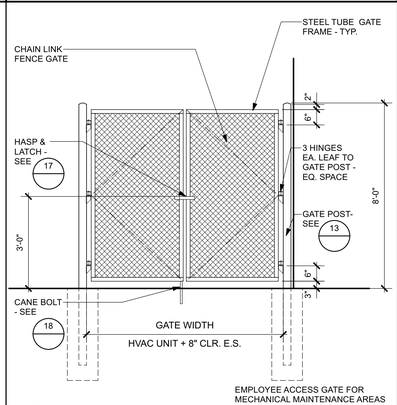
DATE	PROJECT NO.
4/6/2022	2022.040



17 LATCH & HASP AT CHAIN LINK GATE
Scale: Half Actual Size

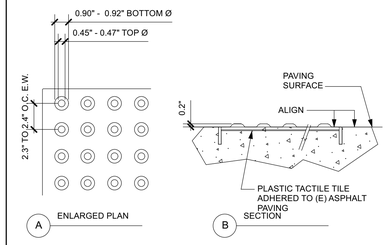


13 FENCE POST
Scale: 1" = 1'-0"



9 TYP. CHAIN LINK DOUBLE GATE - MAINTENANCE
Scale: 1/2" = 1'-0"

5 PARKING ENTRY SIGN - UNAUTHORIZED TOW-AWAY
Scale: 3" = 1'-0"
POST SIGN AT ENTRANCE TO OFF STREET PARKING FACILITIES - SEE SITE PLAN FOR LOCATION.



1 TACTILE DETAILS SET IN CONCRETE
Scale: 3" = 1'-0"

FENCE POST SCHEDULE

FENCE HEIGHT	LINE POST			
	POST Ø	FOOTING Ø	FOOTING DEPTH	
UP TO 3.5 FT.	2 7/8"	1'0"	2'0"	
UP TO 10 FT.	2 7/8"	1'0"	3'6"	

FENCE HEIGHT	TERMINAL POST			
	POST Ø	FOOTING Ø	FOOTING DEPTH	GATE LEAF WIDTH
UP TO 3.5 FT.	3 1/2"	1'0"	3'0"	NA
UP TO 10 FT.	3 1/2"	1'2"	4'6"	UP TO 6'-0"

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

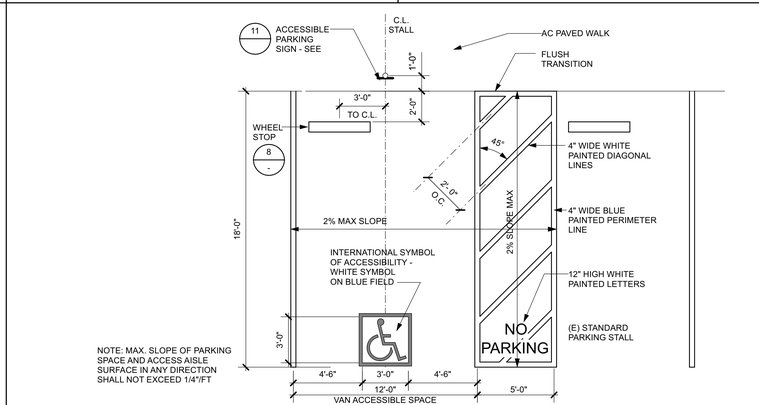
2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

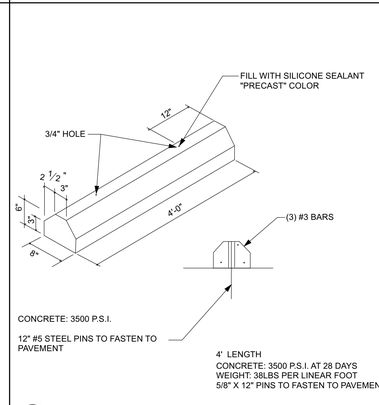
LICENSED ARCHITECT
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

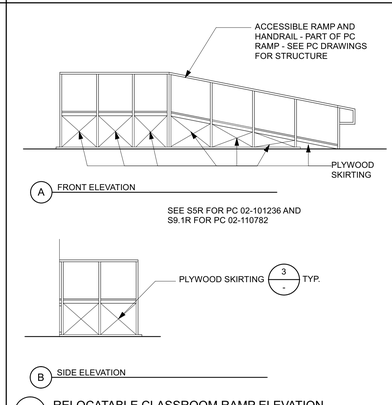
17 CANE BOLT AXONOMETRIC
Scale: 3/4" = 1'-0"



10 CHAIN LINK FENCE - TYPICAL
Scale: 1/2" = 1'-0"



6 PARKING SIGN - UNAUTHORIZED TOW-AWAY
Scale: 1/2" = 1'-0"



2 FIRE DEPARTMENT BUILDING IDENTIFICATION SIGN
Scale: 1" = 1'-0"

15 HVAC FENCE ENCLOSURE
Scale: 1/2" = 1'-0"

11 ACCESSIBLE PARKING SIGN
Scale: 1/2" = 1'-0"

7 AC PAVING TRANSITION AT BASE OF RAMP
Scale: 1/2" = 1'-0"

3 PLYWOOD SKIRTING - RAMP & LANDING
Scale: 3" = 1'-0"
NOTE - SEE PC DRAWINGS FOR RAMP STRUCTURE

SHEET NOTES

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

12 ACCESSIBLE PARKING STALLS - 90°
Scale: 1/4" = 1'-0"

8 PRECAST WHEEL STOP BLOCK
Scale: 3/4" = 1'-0"

4 RELOCATABLE CLASSROOM RAMP ELEVATION
Scale: 1/4" = 1'-0"
NOTE - SEE PC DRAWINGS FOR RAMP STRUCTURE

LEGEND

KEY PLAN

DRAWING TITLE

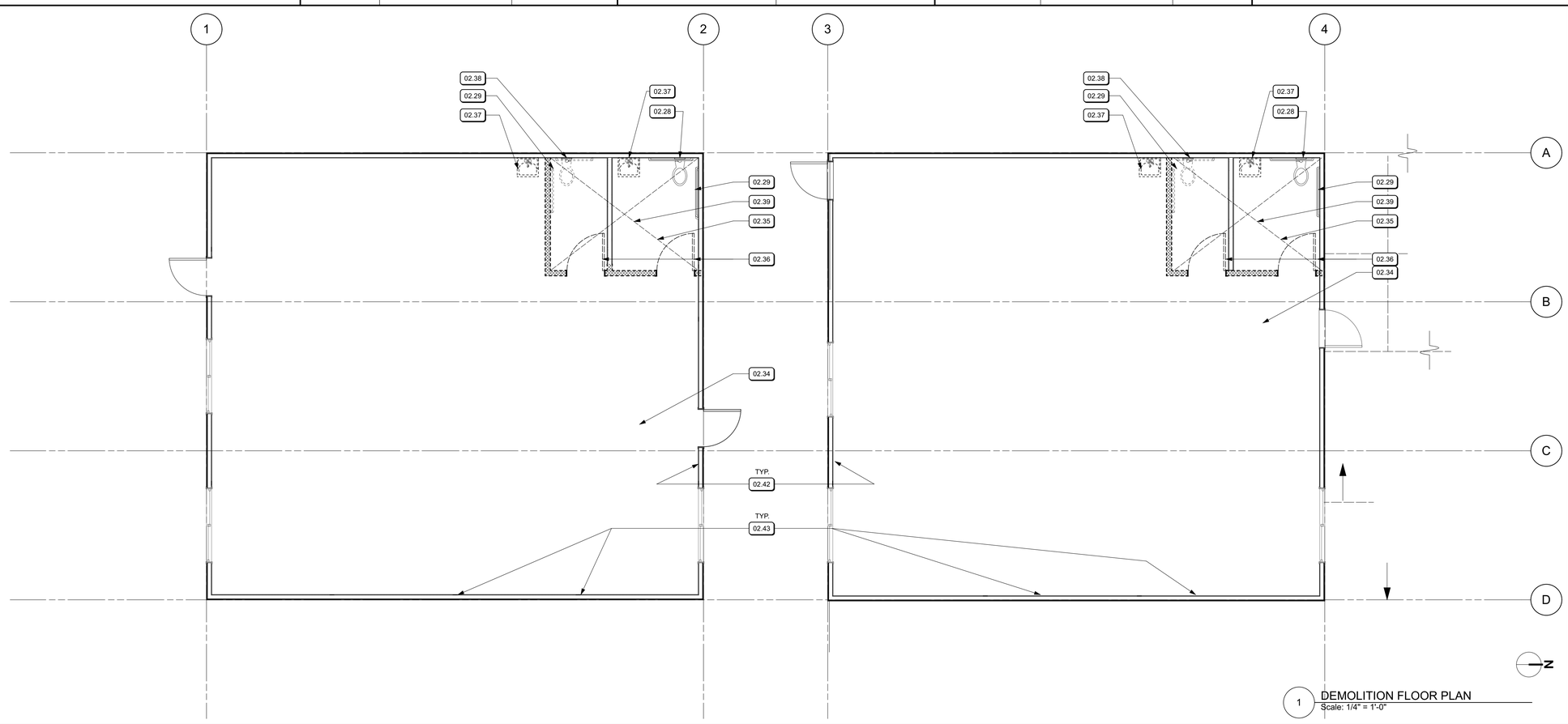
SITE DETAILS

SHEET NUMBER

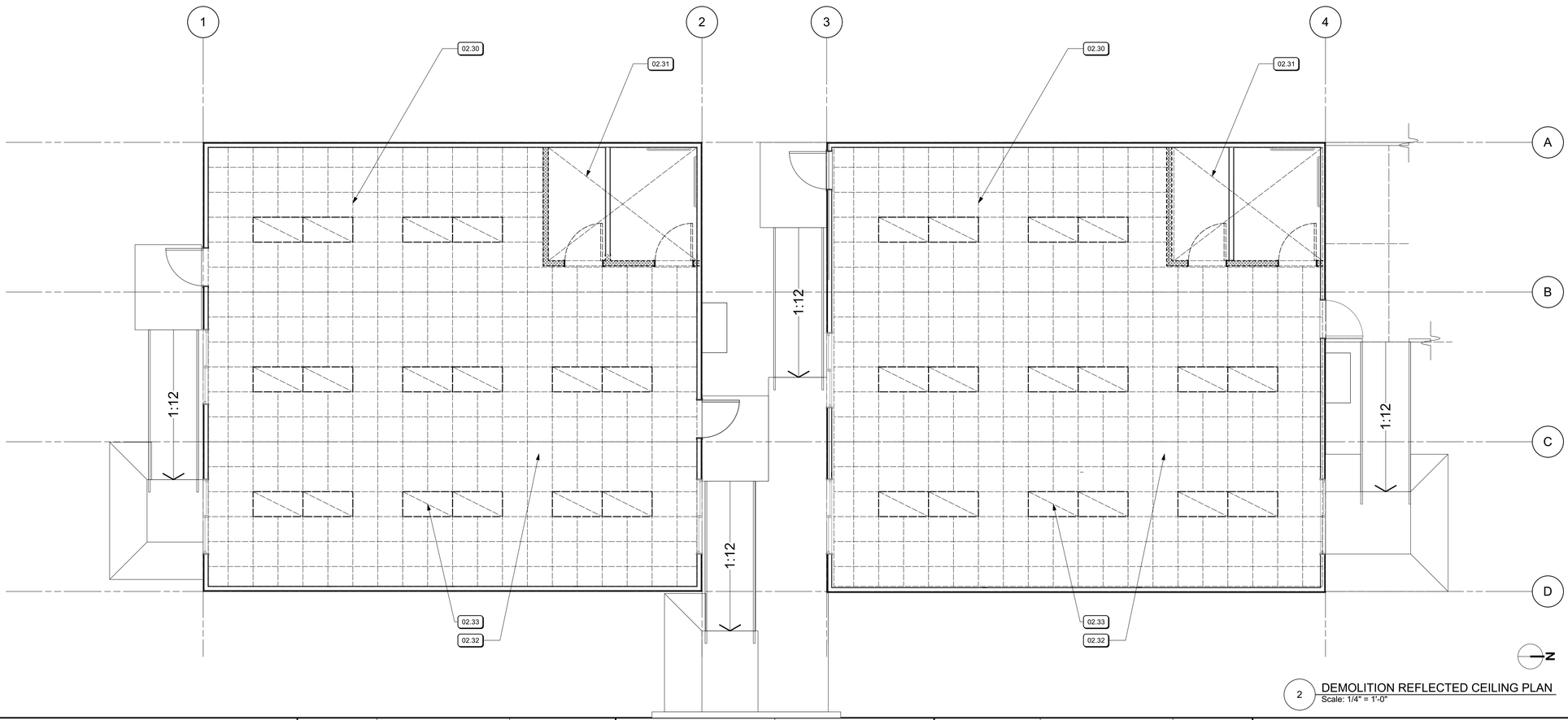
A1.10

CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040



1 DEMOLITION FLOOR PLAN
Scale: 1/4" = 1'-0"



2 DEMOLITION REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"

KEY NOTES

REF	KEY	NOTE
	02.28	SALVAGE (E) WATER CLOSET
	02.29	SALVAGE (E) TOILET ACCESSORIES - RETURN TO DISTRICT
	02.30	DEMO ENTIRE (E) SUSPENDED ACOUSTIC TILE CEILING, INCLUDING SUSPENSION WIRES AND PERIMETER ANGLES
	02.31	DEMO (E) GYPSUM BOARD CEILING, JOISTS, LIGHT FIXTURES, CEILING ACCESSORIES, AIR REGISTERS AND DUCTS
	02.32	SALVAGE (E) CEILING MOUNTED SMOKE AND HEAT DETECTORS AND FIRE ALARM DEVICES - RETURN TO DISTRICT
	02.33	DEMO (E) LIGHT FIXTURES
	02.34	DEMO (E) CARPET FLOORING
	02.35	DEMO (E) RESILIENT SHEET FLOORING
	02.36	DEMO (E) DOORS AND FRAMES - SALVAGE DOOR HARDWARE AND RETURN TO DISTRICT
	02.37	SALVAGE (E) LAVATORY, FAUCET, PAPER TOWEL AND SOAP DISPENSER - RETURN PAPER TOWEL AND SOAP DISPENSER TO DISTRICT
	02.38	DEMO (E) WATERCLOSET, WATER SUPPLY, TOILET FLANGE AND DRAIN PIPE
	02.39	DEMO (E) FRP PANELS ON WALLS
	02.42	DEMO (E) WALL COVERING AND 1/2" FIBERBOARD AROUND ENTIRE INTERIOR WALL PERIMETER.
	02.43	CUT AND PATCH (E) 1/2" GYPSUM WALLBOARD TO INSTALL WALL INTERSECTION BLOCKING BETWEEN STUDS AT NEW WALL INTERSECTIONS - SEE PLAN FOR LOCATIONS.

SHEET NOTES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
LYNN HAMILTON
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE

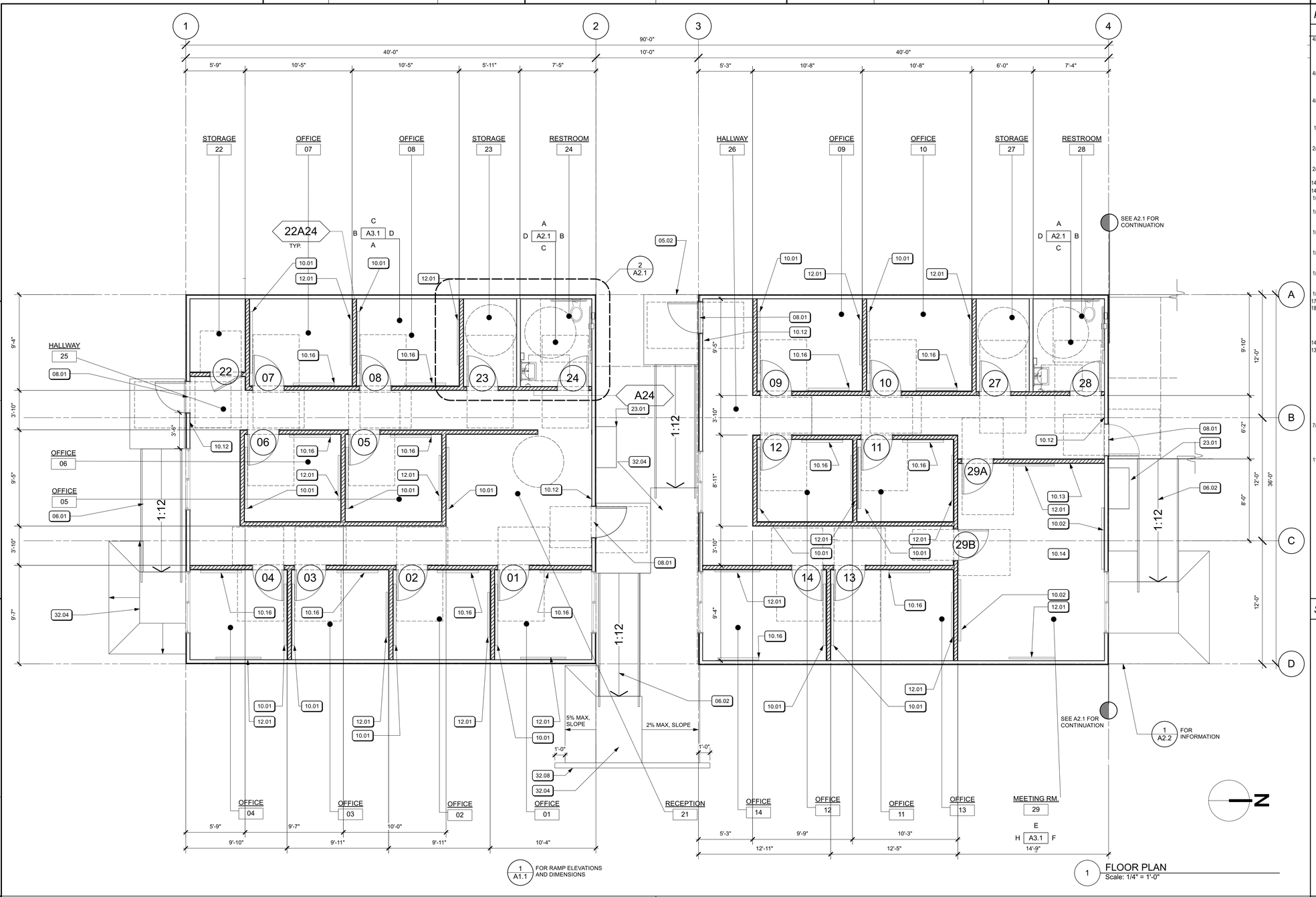
DEMOLITION FLOOR & CEILING PLAN

SHEET NUMBER

A2.1D

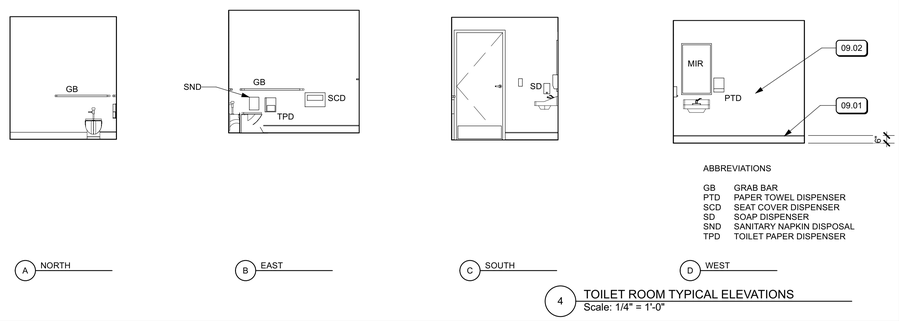
CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040



FOR RAMP ELEVATIONS AND DIMENSIONS

FLOOR PLAN
Scale: 1/4" = 1'-0"

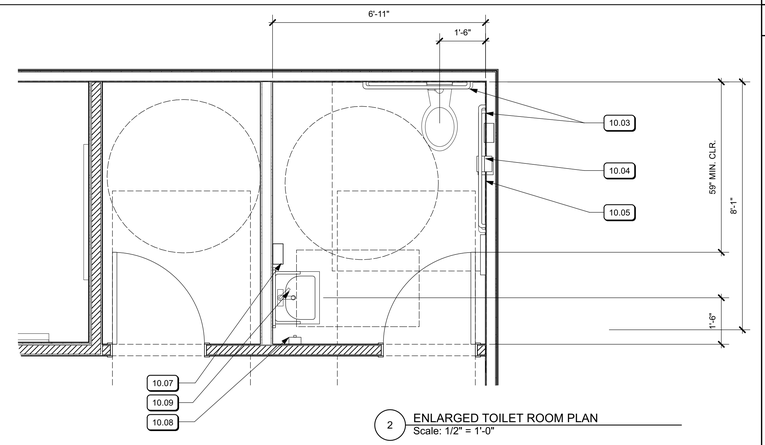


FOR FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHTS - TYPICAL

ABBREVIATIONS

GB	GRAB BAR
PTD	PAPER TOWEL DISPENSER
SCD	SEAT COVER DISPENSER
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
TPD	TOILET PAPER DISPENSER

TOILET ROOM TYPICAL ELEVATIONS
Scale: 1/4" = 1'-0"



ENLARGED TOILET ROOM PLAN
Scale: 1/2" = 1'-0"

KEY NOTES

REF	KEY	NOTE
4/A1.10	05.02	METAL GUARDRAIL AROUND DECK AND RAMP - TMP DSA PRE-CHECKED SYSTEM PC 04-119501 - CLOSE ALL OPEN SIDES WITH PLYWOOD AS PART OF THIS WORK
4/A1.10	06.01	RAMP, LANDING, AND RAILINGS - SEE A9.1R ON PC DRAWINGS 01-112222 - CLOSE ALL OPEN SIDES WITH PLYWOOD AS PART OF THIS WORK
4/A1.10	06.02	RAMP, LANDING, AND RAILINGS - SEE SHEET 2 ON PC DRAWINGS 04-119501 - CLOSE ALL OPEN SIDES WITH PLYWOOD AS PART OF THIS WORK
1/A6.0	08.01	THRESHOLD AND LANDING - SET LANDING 1/4" BELOW THRESHOLD - SEE PC# 61614
2/A10.1	09.01	RESILIENT FLOOR WITH COVE BASE WITH CONTINUOUS ALUMINUM Z-TRIM CAP
2/A10.1	09.02	FRP WAINSCOT PANELS WITH PERIMETER AND JOINT TRIM
14/A10.1	10.01	MARKER BOARD - 6'-0" W. X 4'-0" H.
14/A10.1	10.02	MARKER BOARD - 8'-0" W. X 4'-0" H.
1/A10.1	10.03	42" GRAB BAR AT BACK WALL AND 48" GRAB BAR AT SIDE WALL
1/A10.1	10.04	TOILET PAPER DISPENSER - OWNER-FURNISHED CONTRACTOR INSTALLED.
1/A10.1	10.05	TOILET SEAT COVER DISPENSER - OWNER-FURNISHED CONTRACTOR INSTALLED.
1/A10.1	10.07	PAPER TOWEL DISPENSER - OWNER-FURNISHED CONTRACTOR INSTALLED.
1/A10.1	10.08	SOAP DISPENSER - OWNER-FURNISHED CONTRACTOR INSTALLED.
1/A10.1	10.09	MIRROR
17/A10.1	10.12	TACTILE EXIT SIGN - E
18/A10.1	10.13	ASSISTIVE LISTENING SIGN - D
	10.14	PROVIDE (1) SHARED ASSISTIVE LISTENING SYSTEM WITH (1) HEARING AID COMPATIBLE RECEIVER AND (3) ADDITIIONAL RECEIVERS
14/A10.1	10.16	MARKER BOARD - 4'-0" W. X 4'-0" H.
13/A10.1	12.01	TV MOUNTING BRACKET AND TV MONITOR - LOW-PROFILE FLAT WALL MOUNT TV BRACKET WITH RECESSED OUTLET BOX FOR POWER AND SIGNAL - TV OWNER FURNISHED OWNER INSTALLED - 4" MAX. PROJECTION WITH TV INSTALLED - OWNER-FURNISHED CONTRACTOR INSTALLED FOR TV AND TV BRACKET
	23.01	HVAC UNIT - PART OF RELOCATABLE BUILDING - SEE PC DRAWINGS
7/A1.10	32.04	ASPHALT PAVING TRANSITION AT BASE OF RAMP - LANDING 2% MAX. SLOPE IN ANY DIRECTION - TRANSITION SLOPE 5% MAX. IN DIRECTION OF TRAVEL AND 2% MAX. CROSS SLOPE
11/A1.9	32.08	CONCRETE CURB

SHEET NOTES

1. SEE A3.1 FOR TYPICAL INTERIOR WALL CONSTRUCTION ASSEMBLIES.
2. SEE PC DRAWINGS FOR FRAMING DETAILS. ALL WALLS RUN TO STRUCTURE ABOVE.
3. SEE A3.1 FOR FINISH SCHEDULE.
4. SEE A3.1 FOR DOOR SCHEDULE, DOOR NOTES AND INFORMATION
5. WALL TYPES INDICATED ON ONE SIDE OF A DOOR OR WINDOW CONTINUE ABOVE AND ON THE OPPOSITE SIDE OF THE DOOR OR WINDOW UNLESS OTHERWISE NOTED.
6. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
7. PAINT ENTIRE BUILDING EXTERIOR TO MATCH ADJACENT BUILDING AE-28
8. SEE SIGN COLUMN ON DOOR SCHEDULE FOR DOOR SIGNS

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE
FLOOR PLAN

SHEET NUMBER
A2.1

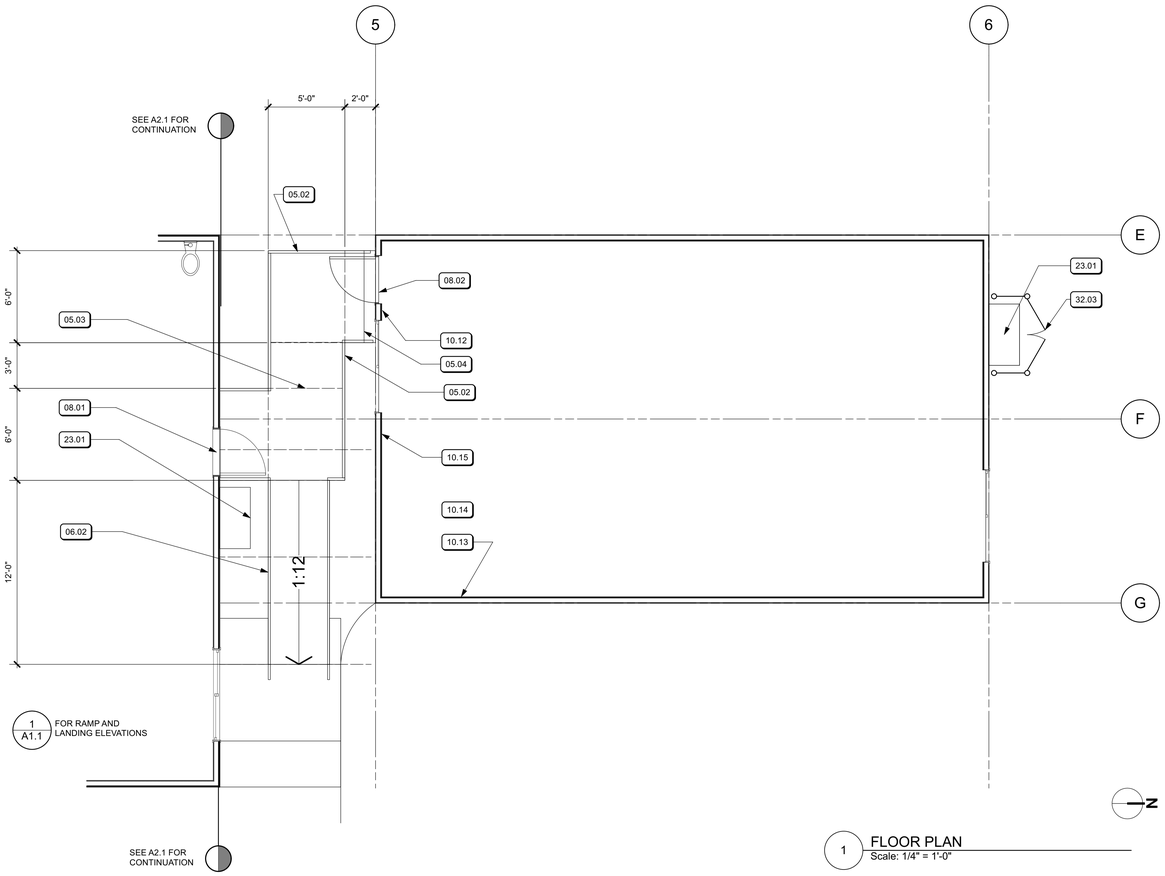
CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040

ASSISTIVE LISTENING SYSTEM CALCULATION

FOR DSA REVIEW ONLY - COMPLY WITH SPECIFICATION FOR NUMBERS OF ASSISTIVE LISTENING DEVICES

SPACE USE	AREA (SF)	OCCUPANT LOAD	TOTAL RECEIVERS	HEARING-AID COMPATIBLE RECEIVERS
CONFERENCE ROOM	960	49	2	1



1 A1.1 FOR RAMP AND LANDING ELEVATIONS

1 FLOOR PLAN
Scale: 1/4" = 1'-0"

KEY NOTES

REF	KEY	NOTE
	02.34	DEMO (E) CARPET FLOORING
	02.40	(E) SUSPENDED ACOUSTIC TILE CEILING TO REMAIN
	02.41	(E) LIGHT FIXTURES TO REMAIN
4/A1.10	05.02	METAL GUARDRAIL AROUND DECK AND RAMP - TMP DSA PRE-CHECKED SYSTEM PC 04-119501 - CLOSE ALL OPEN SIDES WITH PLYWOOD AS PART OF THIS WORK
	05.03	METAL DECK - 5'-0" X 7'-0" MAX. PLATFORM MODULES - SEE PC 04-119501 - DOTTED LINES INDICATE MODULES - FABRICATE MODULES TO FIT THIS CONFIGURATION
11/A9.1	05.04	METAL PLATE EXPANSION JOINT - 4" MOVEMENT
4/A1.10	06.02	RAMP, LANDING, AND RAILINGS - SEE SHEET 2 ON PC DRAWINGS 04-119501 - CLOSE ALL OPEN SIDES WITH PLYWOOD AS PART OF THIS WORK
1/A6.0	08.01	THRESHOLD AND LANDING - SET LANDING 1/4" BELOW THRESHOLD - SEE PC# 61614
6/A4	08.02	THRESHOLD AND LANDING - SET LANDING 1/4" BELOW THRESHOLD - SEE PC# 02-101236
17/A10.1	10.12	TACTILE EXIT SIGN - E
18/A10.1	10.13	ASSISTIVE LISTENING SIGN - D
	10.14	PROVIDE (1) SHARED ASSISTIVE LISTENING SYSTEM WITH (1) HEARING AID COMPATIBLE RECEIVER AND (3) ADDITIIONAL RECEIVERS
19/A10.1	10.15	MAXIMUM OCCUPANT LOAD SIGN - 49 OCCUPANTS
	23.01	HVAC UNIT - PART OF RELOCATABLE BUILDING - SEE PC DRAWINGS
15/A1.10	32.03	CHAIN LINK FENCE AND GATE AROUND HVAC

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

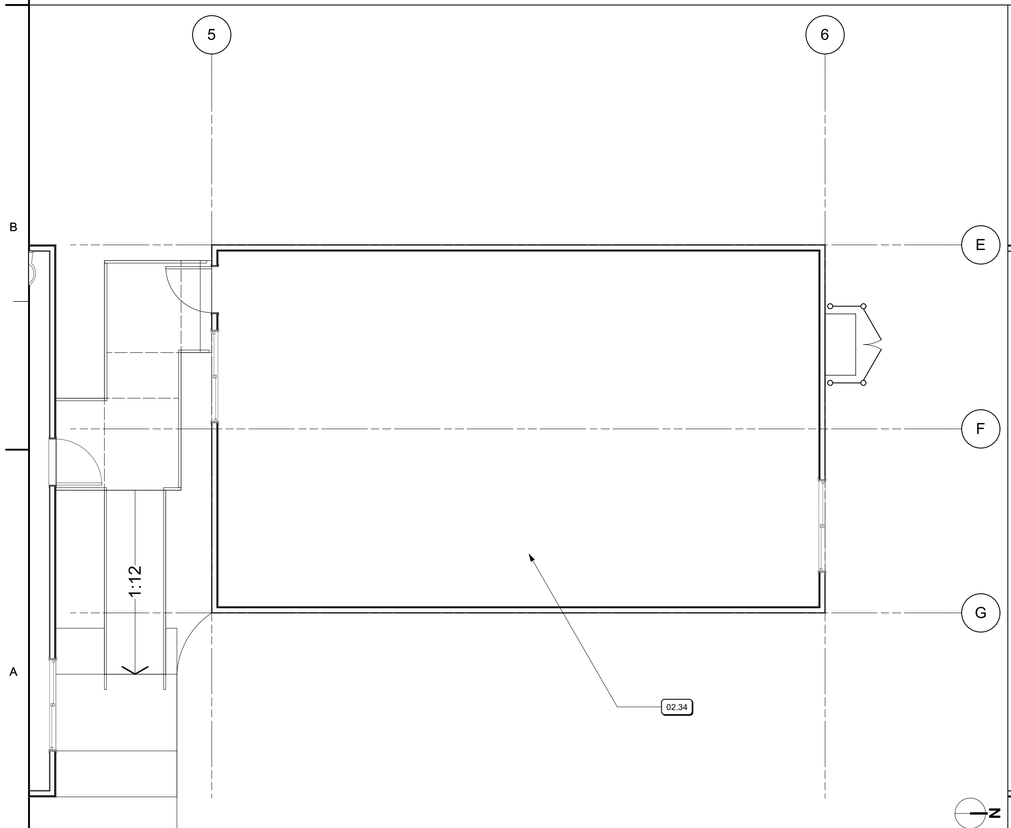
PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

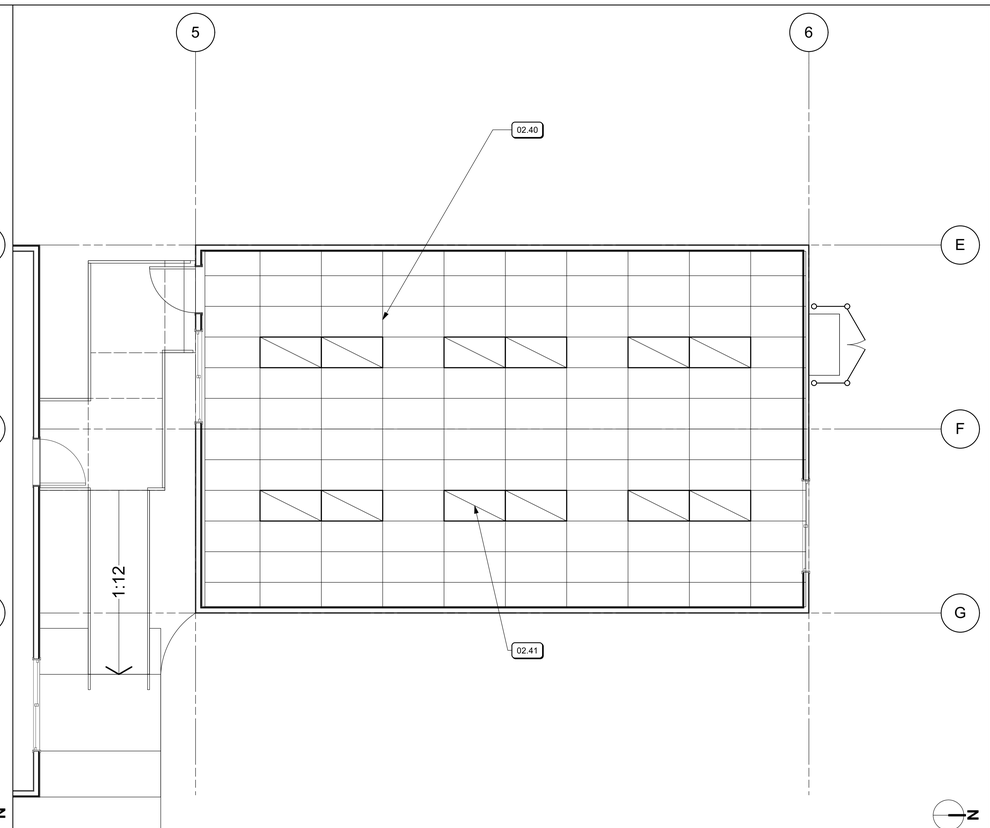
HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
CHAD HAMILTON
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant



4 DEMOLITION FLOOR PLAN
Scale: 1/4" = 1'-0"



2 REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"

SHEET NOTES

1. SEE A3.1 FOR TYPICAL INTERIOR WALL CONSTRUCTION ASSEMBLIES.
2. SEE PC DRAWINGS FOR FRAMING DETAILS. ALL WALLS RUN TO STRUCTURE ABOVE.
3. SEE A3.1 FOR FINISH SCHEDULE.
4. SEE A3.1 FOR DOOR SCHEDULE, DOOR NOTES AND INFORMATION
5. WALL TYPES INDICATED ON ONE SIDE OF A DOOR OR WINDOW CONTINUE ABOVE AND ON THE OPPOSITE SIDE OF THE DOOR OR WINDOW UNLESS OTHERWISE NOTED.
6. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
7. PAINT ENTIRE BUILDING EXTERIOR TO MATCH ADJACENT BUILDING AE-28
8. SEE SIGN COLUMN ON DOOR SCHEDULE FOR DOOR SIGNS

LEGEND

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE

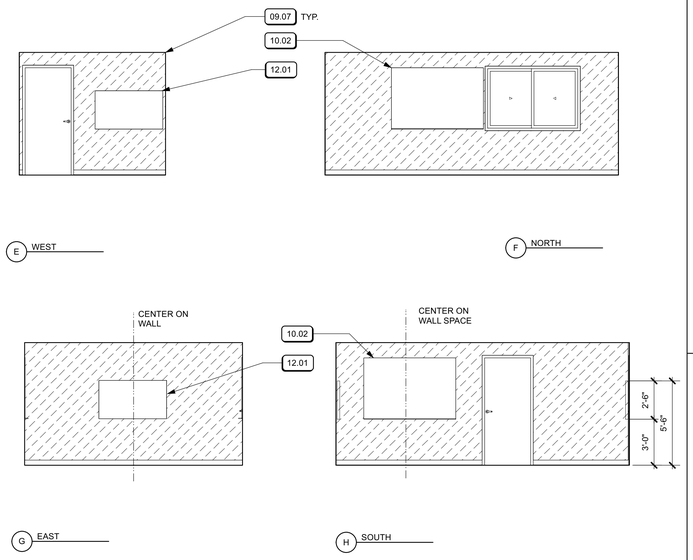
FLOOR & CEILING PLAN & DEMO FLOOR PLAN

SHEET NUMBER

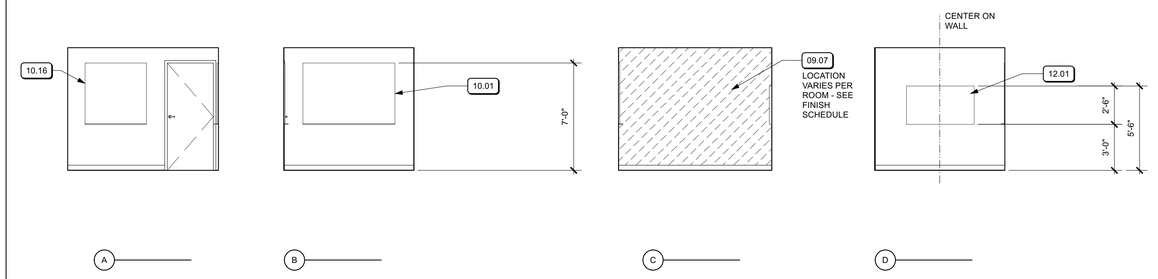
A2.2

CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040



8 CONFERENCE ROOM INTERIOR ELEVATIONS
Scale: 1/4" = 1'-0"

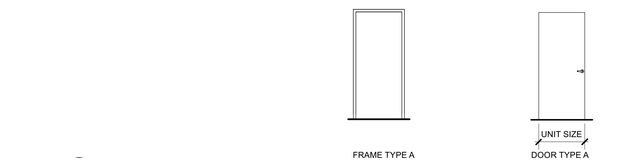


NOTE: SEE FINISH SCHEDULE FOR TACKABLE WALL SURFACE - OCCURS EXTERIOR WALL OF EACH ROOM AND WHERE INDICATED

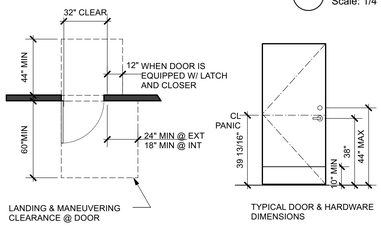
3 TYPICAL OFFICE INTERIOR ELEVATIONS
Scale: 1/4" = 1'-0"

KEY NOTES

REF	KEY	NOTE
	09.07	TACKABLE SURFACE WITH WALLCOVERING - CONTINUES INTO HALLWAY BEYOND
14/A10.1	10.01	MARKER BOARD - 6'-0" W. X 4'-0" H.
14/A10.1	10.02	MARKER BOARD - 8'-0" W. X 4'-0" H.
14/A10.1	10.16	MARKER BOARD - 4'-0" W. X 4'-0" H.
13/A10.1	12.01	TV MOUNTING BRACKET AND TV MONITOR - LOW-PROFILE FLAT WALL MOUNT TV BRACKET WITH RECESSED OUTLET BOX FOR POWER AND SIGNAL - TV OWNER FURNISHED OWNER INSTALLED - 4" MAX. PROJECTION WITH TV INSTALLED - OWNER-FURNISHED CONTRACTOR INSTALLED FOR TV AND TV BRACKET



9 DOOR & FRAME TYPES
Scale: 1/4" = 1'-0"



SEE DOOR SCHEDULE FOR ACTUAL DOOR SIZES AND HARDWARE GROUPS

MIN DOOR SIZE:
3'0" WIDE

HARDWARE: LEVER
OR PUSH/PULL - SEE HARDWARE GROUP FOR SPECIFIC DOOR

MAX FORCE TO OPEN @ EXT DOORS : 5 LBS.
MAX FORCE TO OPEN @ INT DOORS: 5 LBS.
THE AUTHORITY HAVING JURISDICTION MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS TO ACHIEVE POSITIVE LATCHING - BUT NOT TO EXCEED 15 LBS MAX

10" KICKPLATE OR 10"
SMOOTH FULL WIDTH OF DOOR BOTTOM

1/2" MAX THRESHOLD HT. W/ 1:2 SLOPE BEVEL EDGE
1/4" PER FT MAX SLOPE AT EXTERIOR LANDING

10 DOOR CLEARANCE ON PATH OF TRAVEL
Scale: 1/4" = 1'-0"

CONSTRUCTION ASSEMBLIES

ASSEMBLY	WALL TYPE	DESCRIPTION	FIRE RATING	STC RATING
	22A24	ONE LAYER 5/8" GYPSUM WALLBOARD ON 2 X 4 WOOD STUDS 24" ON CENTER FROM SILL TO STRUCTURE ABOVE - 5/8" GYPSUM WALLBOARD ON 1/2" HORIZONTAL RESILIENT CHANNELS ON OTHER SIDE. FASTEN RESILIENT CHANNELS 12" O.C. VERTICALLY WITH (1) #8 X 1-5/8" BUGLE HEAD SCREW TO EACH STUD - FASTEN GYPSUM WALLBOARD TO RESILIENT CHANNELS WITH #8 X 1-1/4" BUGLE HEAD SCREW 8" O.C. AT PERIMETER EDGE AND 12" O.C. IN THE FIELD - FASTEN GYPSUM WALLBOARD TO WOOD STUDS WITH #8 X 1-5/8" BUGLE HEAD SCREW 8" O.C. AT PERIMETER EDGE AND 12" O.C. IN THE FIELD.		50
	A24	ONE LAYER 5/8" GYPSUM WALLBOARD ON EACH SIDE OF 2 X 4 WOOD STUDS 24" ON CENTER FROM SILL TO STRUCTURE ABOVE - 5/8" GYPSUM WALLBOARD ON EACH SIDE - FASTEN GYPSUM WALLBOARD TO WOOD STUDS WITH #8 X 1-5/8" BUGLE HEAD SCREW 8" O.C. AT PERIMETER EDGE AND 12" O.C. IN THE FIELD.		

DOOR SCHEDULE NOTES

1. DIMENSIONS OF DOORS ARE NOMINAL. VERIFY ALL DOOR SIZES IN FIELD PRIOR TO ORDERING.
2. ALL DOORS SHALL BE POSITIVE LATCHING W/ LEVER ACTING DOOR HARDWARE. ALL FIRE RATED DOORS SHALL HAVE PERIMETER SMOKE GASKETS AS REQUIRED, AND SELF-CLOSERS OR AUTOMATIC CLOSERS WITH SMOKE DETECTORS.
3. ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 2.5311 B.E.E.S. ALL NEW EXTERIOR DOORS SHALL BE WEATHER-STRIPPED COMPLETELY.
4. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. NO DEADBOLTS, NO SLIDING BOLTS, ETC. (CBC SEC. 1004 (C)).
5. ADJUST ALL DOOR OPENING FORCE TO THE MINIMUM REQUIRED FOR OPERATION. MAXIMUM EFFORT TO OPERATE ANY NEW DOORS SHALL NOT EXCEED 5 POUNDS FOR INTERIOR AND EXTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS, SUBJECT TO APPROVAL BY THE ARCHITECT AND THE GOVERNING AUTHORITY. OPENING FORCE FOR FIRE RATED DOORS MAY BE ADJUSTED UP TO A MAXIMUM OF 15 POUNDS SUBJECT TO APPROVAL BY THE GOVERNING AUTHORITY.
6. ALL HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR. SEE DOOR TYPES FOR DIMENSION. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE. LOCKED DOORS SHALL OPERATE AS ABOVE IN THE EGRESS DIRECTION.
7. THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH BOTTOM RAIL SHALL BE INSTALLED.
8. ALL GLAZING IN DOORS AND SIDELIGHTS SHALL BE SAFETY GLASS, OR FIRE-RATED GLASS WHERE REQUIRED. NO WIRED GLASS IS ALLOWED.
10. FOR SIGNAGE TYPES AND MOUNTING INSTRUCTIONS SEE SIGNAGE DETAIL SHEET.
11. VERIFY DIMENSIONS OF ALL EXISTING DOOR FRAMES TO BE RE-USED - FIT NEW DOORS TO EXISTING FRAMES AS REQUIRED.
12. ALIGN NEW DOOR HEADS TO EXISTING ADJACENT DOOR HEADS WHERE OCCURS.
13. AT DOORS HUNG IN (E) FRAME INDICATED TO SWING TO THE OPPOSITE SIDE FROM THE ORIGINAL FRAME HARDWARE, PATCH (E) MORTISE AND HARDWARE PREPARATIONS IN (E) FRAME FOR ALL HINGES, LATCHES, STRIKES, AND OTHER HARDWARE. FOR WOOD FRAMES - PATCH WITH WOOD PLUGS FLUSH WITH BACK OF (E) SURFACE. FOR METAL FRAMES - WELD SHEET METAL PATCHES, GRIND SMOOTH AND FINISH TO MATCH ADJACENT SURFACE.

- / A10.1 FOR SIGNAGE - SIGNAGE REFERENCE REFERS TO SIGN TYPE

FINISH SCHEDULE NOTES:

1. ROOM FINISH SCHEDULE INDICATES GENERAL FINISH LOCATIONS. SEE INTERIOR ELEVATION DRAWINGS FOR EXTENT OF FINISHES INCLUDING BUT NOT LIMITED TO CERAMIC TILE, WAINSCOTS, PAINT, TRIM, VISUAL DISPLAY SURFACES, AND OTHER ELEMENTS.
2. INSTALL ALL GYPSUM BOARD PER CBC SECTION 2508 AND TABLES 2508.1 AND 2508.5.
3. PROVIDE FURRING OR SHIMS WHERE REQUIRED TO ALIGN SURFACES OF NEW AND EXISTING WALL SURFACES.
4. PROVIDE 5/8" GYPSUM WALLBOARD, TYPE X WHERE REQUIRED, AT ALL SCHEDULED CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE.
5. WHERE NEW WORK ABUTS EXISTING WORK OF THE SAME MATERIAL AND FINISH, BLEND NEW WORK TO MATCH ADJACENT FINISHES.
6. THE MAXIMUM FLAME SPREAD RATING FOR INTERIOR WALL AND CEILINGS SHALL NOT EXCEED THE FOLLOWING (CBC TABLES 8A AND 8B):
   CORRIDORS, HALLWAYS, AND OTHER EXITS: 26-75
   OTHER AREAS: 76-200
7. ALL FINISHES INDICATED IN THE FINISH SCHEDULE ARE NEW FINISHES UNLESS INDICATED AS EXISTING.

LEGEND

CRPT	CARPET
EPX-1	EPOXY RESINOUS FLOORING
FRP	FIBER REINFORCED PLASTIC
GWB	GYPSUM WALLBOARD
P	PAINT
RES	RESILIENT
SAT	SUSPENDED ACOUSTIC CEILING TILE
TAK	TACKABLE SURFACE WITH WALLCOVERING

REMARKS

1. ALL EXTERIOR WALLS - REMOVE TACKABLE WALL SURFACE DOWN TO (E) GYPSUM WALL BOARD - CUT AND PATCH GYPSUM WALL BOARD TO INSTALL FRAMING - APPLY (N) TACKABLE WALL SURFACE OVER (E) GYPSUM WALLBOARD. PATCH (E) GYPSUM WALLBOARD AS REQUIRED.

2. EXTERIOR WALLS AT TOILET ROOMS - REMOVE (E) GYPSUM WALL BOARD TO INSTALL FINISHES.

DOOR SCHEDULE

	DOOR									FRAME			DETAILS				
Door #	Type	Width	Height	Thickness	Construction	Finish	Fire Rating	Hdwr Grp	Frame Type	Frame Cons	Frame Finish	Head Detail	Jamb Detail	Thrshld Detai	Signage	REMARKS
01	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
02	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
03	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
04	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
05	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
06	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
07	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
08	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
09	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
10	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
11	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
12	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
13	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
14	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
22	A	3'0"	7'0"	1 3/4"	HM	ST		3	1	HM	P				C	
23	A	3'0"	7'0"	1 3/4"	HM	ST		3	1	HM	P					
24	A	3'0"	7'0"	1 3/4"	HM	ST		2	1	HM	P		20/A10.1		A,B	
27	A	3'0"	7'0"	1 3/4"	HM	ST		3	1	HM	P					
28	A	3'0"	7'0"	1 3/4"	HM	ST		2	1	HM	P		20/A10.1		A,B	
29A	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	
29B	A	3'0"	7'0"	1 3/4"	HM	ST		1	1	HM	P				C	

FINISH SCHEDULE

ROOM		FLOOR	BASE	WAINSCOT	TRIM	WALL N	WALL E	WALL S	WALL W	CEILING	REMARKS
01	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	1.
02	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	1.
03	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	1.
04	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	1.
05	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	
06	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	
07	OFFICE	CRPT	RES			GWB P	GWB P	GWB P	TACK	SAT	1.
08	OFFICE	CRPT	RES			GWB P	GWB P	GWB P	TACK	SAT	1.
09	OFFICE	CRPT	RES			GWB P	GWB P	GWB P	TACK	SAT	1.
10	OFFICE	CRPT	RES			GWB P	GWB P	GWB P	TACK	SAT	1.
11	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	
12	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	
13	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	1.
14	OFFICE	CRPT	RES			GWB P	TACK	GWB P	GWB P	SAT	1.
21	Custom	CRPT	RES			TACK	GWB P	TACK	GWB P	SAT	1.
22	STORAGE	CRPT	RES			GWB P	GWB P	GWB P	GWB P	SAT	1.
23	STORAGE	RES	RES			GWB P	GWB P	GWB P	GWB P	SAT	1.
24	RESTROOM	RES	RES	FRP WAINSCOT - FULL HEIGHT		GWB P	GWB P	GWB P	GWB P	SAT	2.
25	HALLWAY	CRPT	RES			GWB P	GWB P	GWB P	GWB P	SAT	1.
26	HALLWAY	CRPT	RES			GWB P	GWB P	GWB P	GWB P	SAT	1.
27	STORAGE	RES	RES			GWB P	GWB P	GWB P	GWB P	SAT	1.
28	RESTROOM	RES	RES	FRP WAINSCOT - FULL HEIGHT		GWB P	GWB P	GWB P	GWB P	SAT	2.
29	MEETING RM.	CRPT	RES			TACK	TACK	TACK	TACK	SAT	1.
31	CLASSROOM	CRPT	RES			(E)VWC	(E)VWC	(E)VWC	(E)VWC	(E)SAT	

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
CHAD HAMILTON
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

SHEET NOTES

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22
	ADDENDUM	12/23/22

APPROVALS

LEGEND

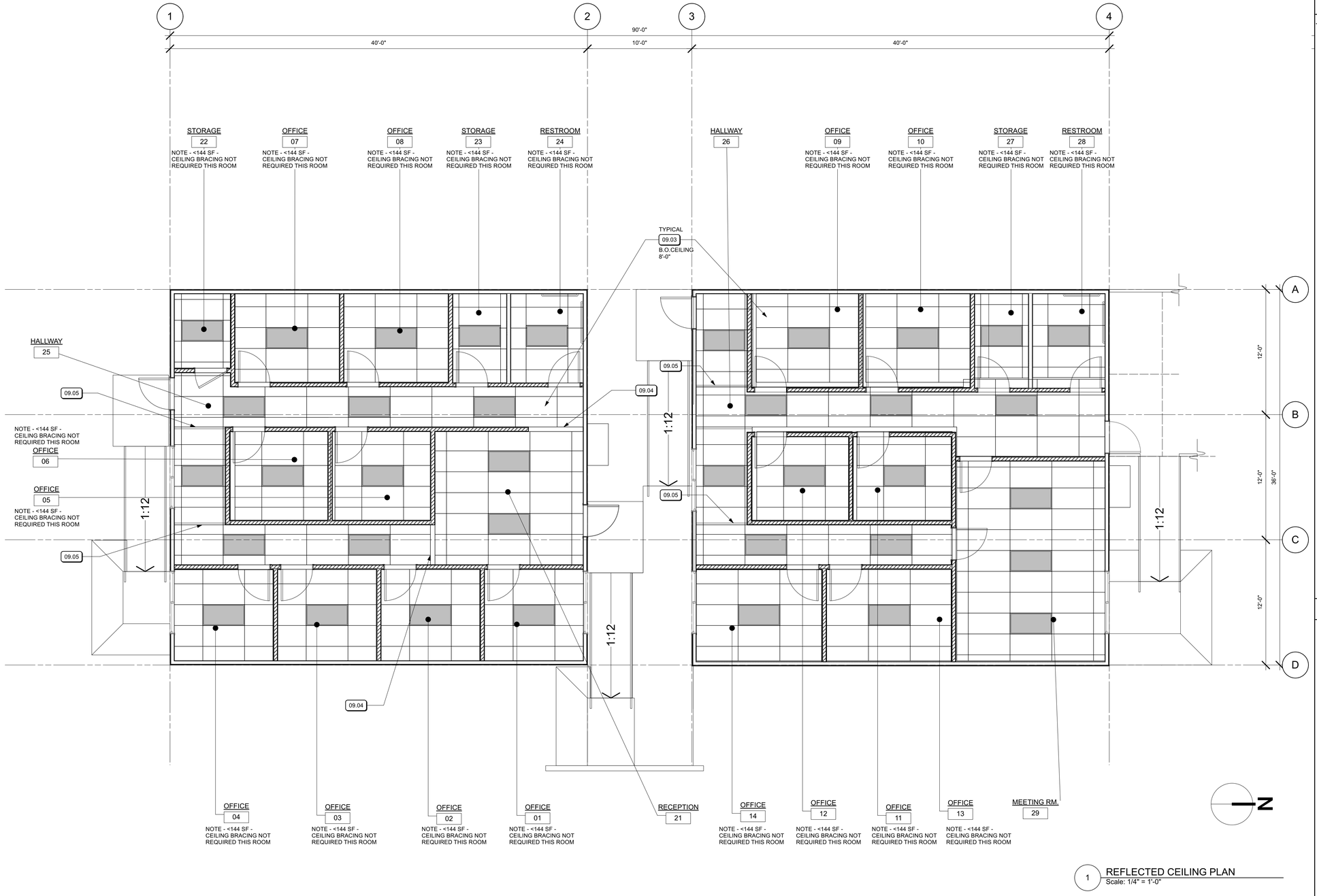
KEY PLAN

DRAWING TITLE
ELEVATIONS, SCHEDULES & MISC. INFORMATION

SHEET NUMBER
A3.1

CAD FILE: 22040_TTB.vwx

DATE 4/6/2022
PROJECT NO. 2022.040



1 REFLECTED CEILING PLAN
Scale: 1/4" = 1'-0"

KEY NOTES

REF	KEY	NOTE
	09.03	SUSPENDED ACOUSTIC TILE CEILING - SEE PC1-A7.1 FOR TYPICAL CEILING DETAILS
A9.1	09.04	GYPSUM WALLBOARD FRAMED HEADER - SEE HEADER SCHEDULE
14/A9.2	09.05	SUSPENDED ACOUSTIC CEILING EXPANSION JOINT

SHEET NOTES

1. DEMO ENTIRE EXISTING SUSPENDED ACOUSTIC TILE CEILING
2. SET BOTTOM OF CEILING HEIGHT TO 8'-0" A.F.F. U.O.N.
3. ALL PARTITIONS RUN TO STRUCTURE ABOVE.
4. SEE A3.1 FOR FINISH SCHEDULE
5. SEE PC DRAWINGS FOR TYPICAL CEILING DETAILS.
6. CENTER CEILING PATTERN IN ROOM SO THAT NO EDGE TILE IS LESS THAN 8".
7. SEE ELECTRICAL DRAWINGS FOR LIGHTING AND ELECTRICAL INFORMATION.
8. SEE MECHANICAL DRAWINGS FOR AIR REGISTERS AND MECHANICAL INFORMATION.
9. SEE PC1-A7.1 FOR CEILING DETAILS

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
CRAIG HAMILTON
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE

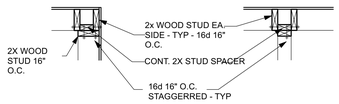
REFLECTED CEILING PLAN

SHEET NUMBER

A6.1

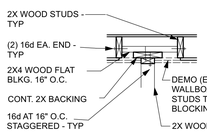
CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040



B. PLAN - CORNER FRAMING

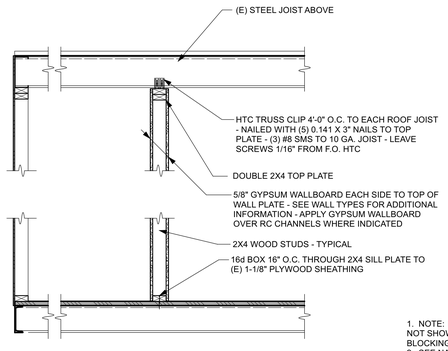
A. PLAN - T-INTERSECTION - WALL FRAMING



SEE CONSTRUCTION ASSEMBLIES SCHEDULE A3.1 FOR SIZE - TYP.

C. PLAN - T-INTERSECTION AT (E) WALL FRAMING

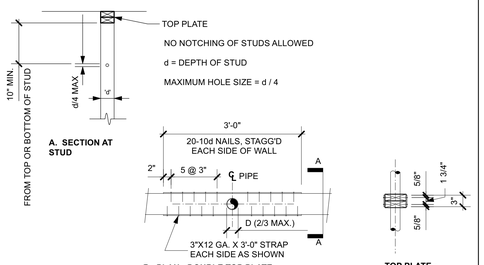
9 WALL INTERSECTIONS - TYPICAL
Scale: 3/4" = 1'-0"



1. NOTE: BACKING AND BLOCKING FOR FINISHES NOT SHOWN FOR CLARITY - PROVIDE REQUIRED BLOCKING AND BACKING
2. SEE NAILING SCHEDULE FOR ADDITIONAL INFORMATION.

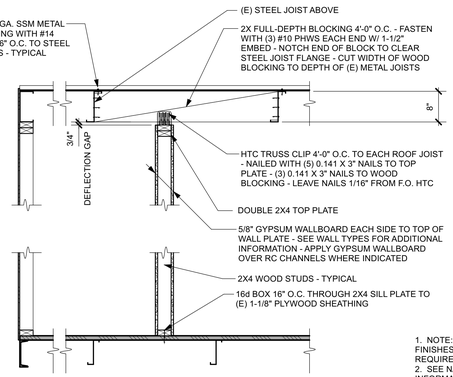
- S4.1 ON PC DRAWINGS FOR STRUCTURAL FRAMING AND DETAILS

9 WALL CONNECTION TYP. - PERPENDICULAR TO JOIST
Scale: 3/4" = 1'-0"



FOR D LESS THAN 1/3 W - NO SCAB REQUIRED.
FOR D BETWEEN 1/3 W AND 1/2 W - 1 SCAB.
FOR D BETWEEN 1/2 W AND 2/3 W - 2 SCABS.
D GREATER THAN 2/3 W - NOT PERMITTED.

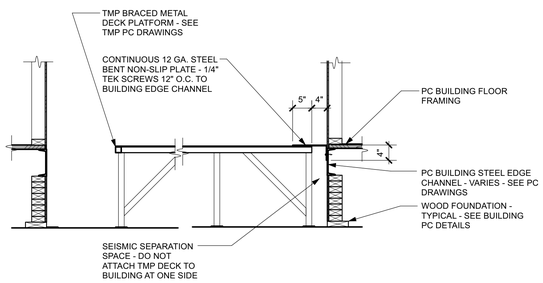
6 ALLOWABLE HOLES IN WALL STUDS
Scale: 3/4" = 1'-0"



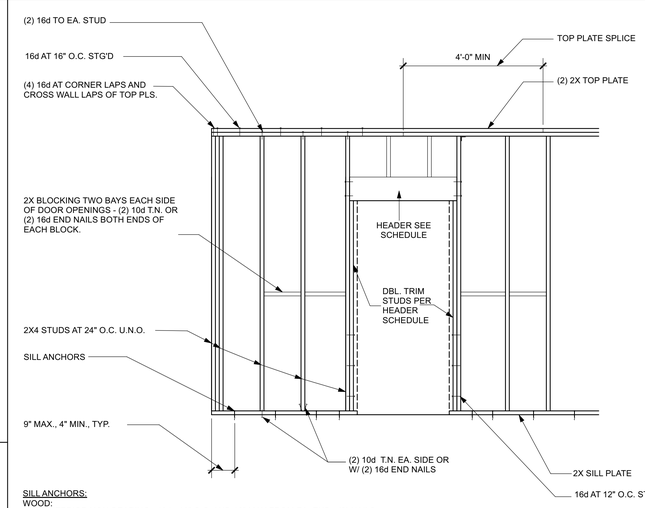
1. NOTE: BACKING AND BLOCKING FOR FINISHES NOT SHOWN FOR CLARITY - PROVIDE REQUIRED BLOCKING AND BACKING
2. SEE NAILING SCHEDULE FOR ADDITIONAL INFORMATION.

- S4.1 ON PC DRAWINGS FOR STRUCTURAL FRAMING AND DETAILS

10 WALL CONNECTION TYP. - PARALLEL TO JOIST
Scale: 3/4" = 1'-0"

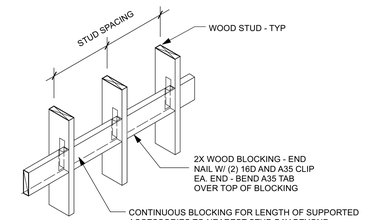


11 SECTION AT DECK
Scale: 3/4" = 1'-0"



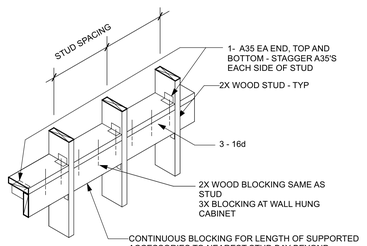
SILL ANCHORS:
WOOD:
1. AT INTERIOR NON-BEARING: 16d - 16" O.C. AND 12" MAX FROM EA. END - (2) NAILS PER PL (MIN).

1 WOOD FRAMED WALL CONSTRUCTION - TYPICAL
Scale: 1/2" = 1'-0"



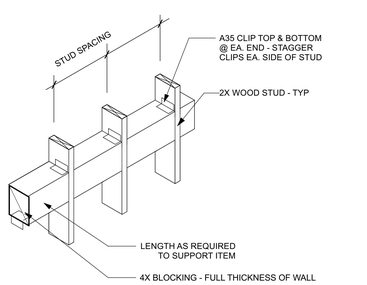
TYPE A - WOOD STUD WALL

TOILET ACCESSORIES, CHALK AND TACK BOARDS, BASE CABINETS, TALL STORAGE CABINETS, MARKER BOARD ASSEMBLY, FURNACE ENCLOSURE, DOWN SPOUTS



TYPE B - WOOD STUD WALL

WALL HUNG CABINETS, AND WALL HUNG EQUIPMENT, GRAB BARS AND HAND RAILS



TYPE C - WOOD STUD WALL

GRAB BARS AND PIPE RAILS - NOT FOR USE WITH PLUMBING FIXTURE

8 BACKING PLATES / IN-WALL BLOCKING
Scale: 3/4" = 1'-0"

WOOD HEADER SCHERIOR NON-BEARING WALLS

SPAN	HEADER DEPTH	END NAIL	TRIM STUDS E.S.
UP TO 3'-6"	4 X	(4) - 16d	1
UP TO 6'-6"	6 X	(5) - 16d	2

ALL HEADERS SHALL BE SIZED ACCORDING TO THIS SCHEDULE U O.N. ALL HEADERS SHALL BE FULL WIDTH OF FRAMING MEMBER / WALL STUD.

NAILING SCHEDULE

FOR CONNECTIONS NOT INDICATED, COMPLY WITH CBC TABLE 2304.10.1	
CONNECTION	NAILING
JOIST TO SILL OR GIRDER, TOENAIL	(3) - 8d
BRIDGING TO JOIST, TOENAIL EACH END	(2) - 8d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
TOP PLATE TO STUD, END NAIL	(2) - 16d
STUD TO SOLE PLATE	(4) - 10d TOENAIL OR (2) - 16d ENDNAIL
DOUBLE STUDS, FACE NAIL	16d AT 24" O.C.
DOUBLED TOP PLATES, FACE NAIL	16d AT 16" O.C.
TOP PLATES - LAPS AT WALL INTERSECTIONS	(2) - 16d
TOP PLATES - SPLICES	(8) 16d
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOENAIL	(3) - 8d
CONTINUOUS HEADER TO STUD, TOENAIL	(3) - 8d
BUILT UP CORNER STUDS	16d AT 24" O.C.

ALL NAILS TO BE COMMON WIRE NAILS. NAILING SCHEDULE APPLIES U.O.N. - SEE DETAILS. COMPLY WITH CBC TABLE 2304.10.1

FRAMING NOTES

01000 - GENERAL
A. THESE NOTES APPLY TO ALL DRAWINGS AND GOVERN UNLESS OTHERWISE NOTED OR SPECIFIED.
B. SEE RELEVANT SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
C. VERIFY ALL EXISTING CONDITIONS AND PROPOSED DIMENSIONS AT JOB SITE. COMPARE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND DO NOT PROCEED WITH AFFECTED WORK UNTIL THEY ARE RESOLVED. DO NOT SCALE DRAWINGS.
D. UNLESS OTHERWISE SHOWN OR NOTED, ALL TYPICAL DETAILS SHALL BE USED WHERE APPLICABLE.
E. ALL DETAILS SHALL BE CONSIDERED TYPICAL AT SIMILAR CONDITIONS.
F. SAFETY MEASURES: AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF THE PERSONS AND PROPERTY, AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS. THE ARCHITECT'S OR ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.

01400 - TESTS & INSPECTIONS
A. PROVIDE TESTS AND INSPECTIONS FOR ALL ITEMS AS REQUIRED BY THE 2019 CALIFORNIA BUILDING CODE. SEE DSA FORM 103 FOR REQUIRED TESTS AND INSPECTIONS.
B. CALL THE ARCHITECT FOR STRUCTURAL OBSERVATION OF THE FOLLOWING ITEMS:
1. ALL FRAMING PRIOR TO COVERING.
3. OTHER ITEMS AS NOTED OR AS REQUIRED BY CBC.
C. THE CONTRACTOR SHALL PROVIDE NOTICE A MINIMUM OF 48 HOURS PRIOR TO TIME OF INSPECTION.

06100 - ROUGH CARPENTRY
A. FOR SCHEDULE OF MINIMUM NAILING SEE TABLE 2301.10.1 CALIFORNIA BUILDING CODE. 16 PENNY VINYL COATED SINKERS MAY BE SUBSTITUTED FOR 16 PENNY BOX OR COMMON NAILS FOR ROUGH FRAMING. SINKERS SHALL NOT BE USED WITH METAL CONNECTORS.
B. PLACE JOISTS WITH CROWN UP.
C. RETIGHTEN ALL BOLTS PRIOR TO CLOSING IN WALLS.
C. USE GALVANIZED NAILS, BOLTS, AND HARDWARE WHERE EXPOSED TO WEATHER.
D. ALL TIMBER FASTENERS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE SIMPSON COMPANY'S STANDARD FASTENERS OR APPROVED EQUAL.

06110 - FRAMING LUMBER (UNLESS OTHERWISE NOTED)
A. ALL FRAMING LUMBER SHALL BE GRADED PER WCLIB GRADING RULES NO. 16.
B. ALL STUDS, PLATES, ETC., SHALL BE DOUGLAS FIR, #2. KILN-DRIED TO 12% MAXIMUM MOISTURE CONTENT.
C. ALL LUMBER EXPOSED TO WEATHERING SHALL BE PRESSURE PRESERVATIVE TREATED OR APPROVED ROT-RESISTANT SPECIES.

SHEET NOTES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT — C15932 — Ren.12/30/23 — STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

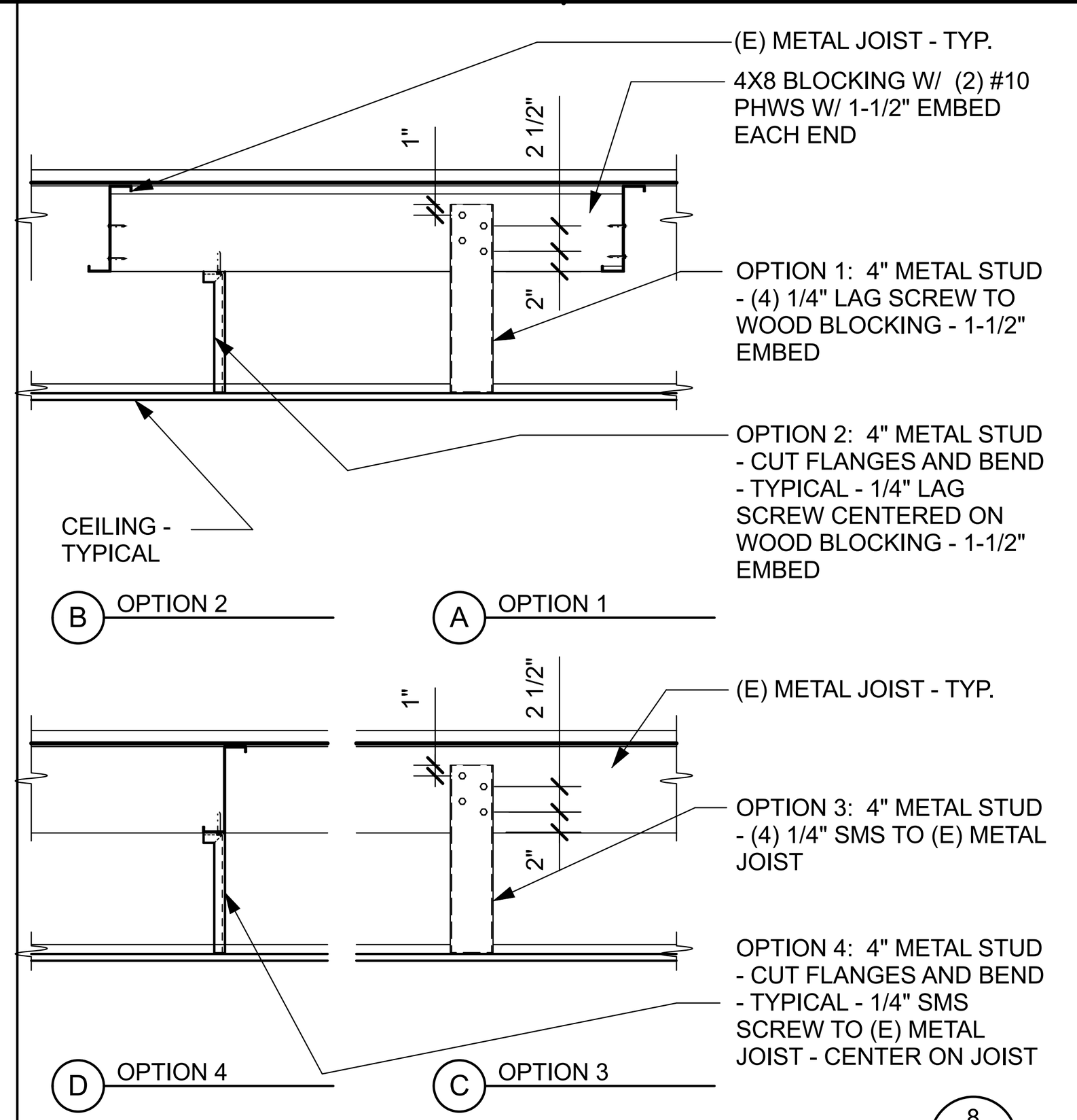
KEY PLAN

DRAWING TITLE
NON-BEARING FRAMING & MISCELLANEOUS DETAILS

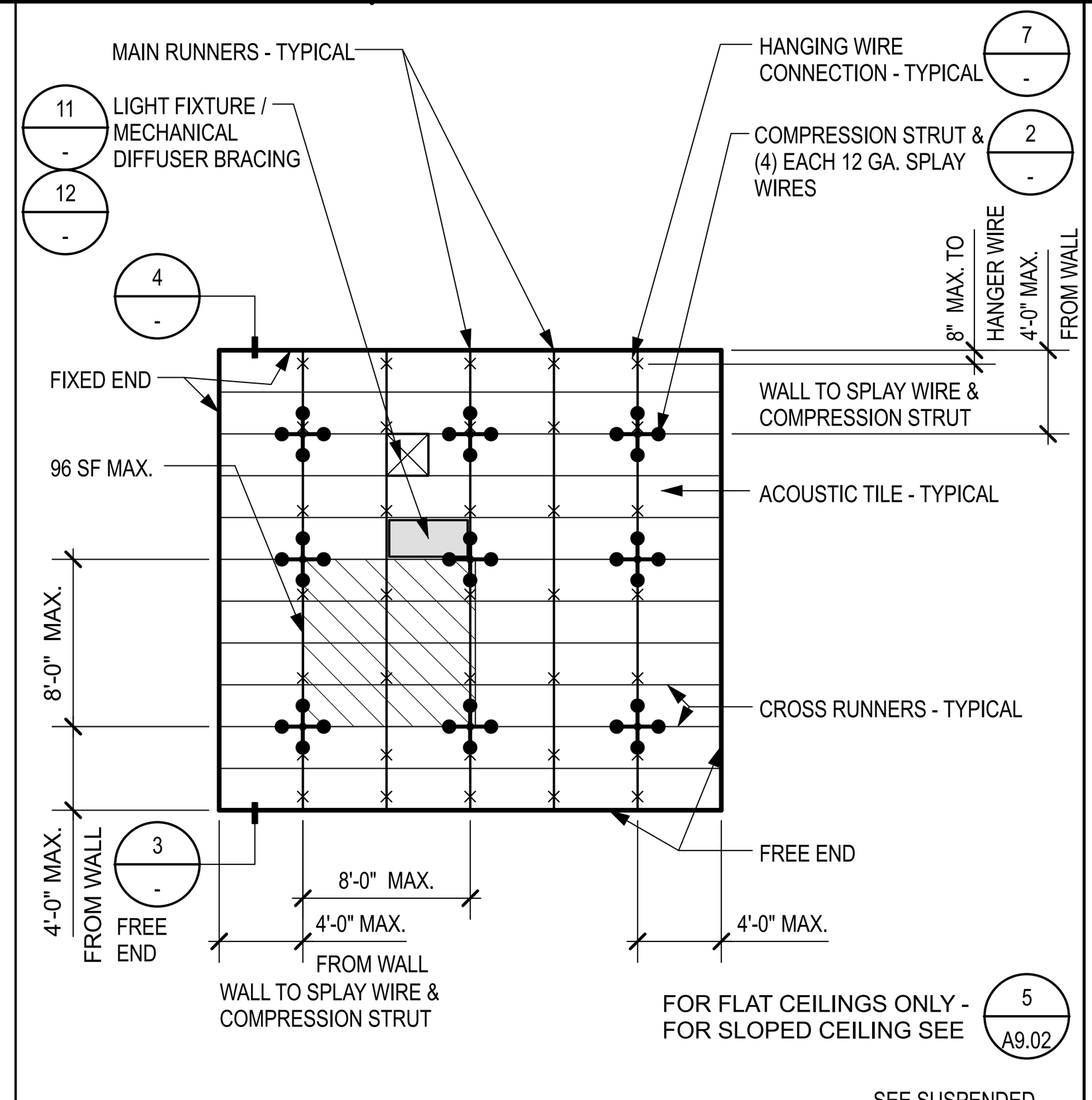
SHEET NUMBER
A9.1

CAD FILE: 22040_TTB.vwx

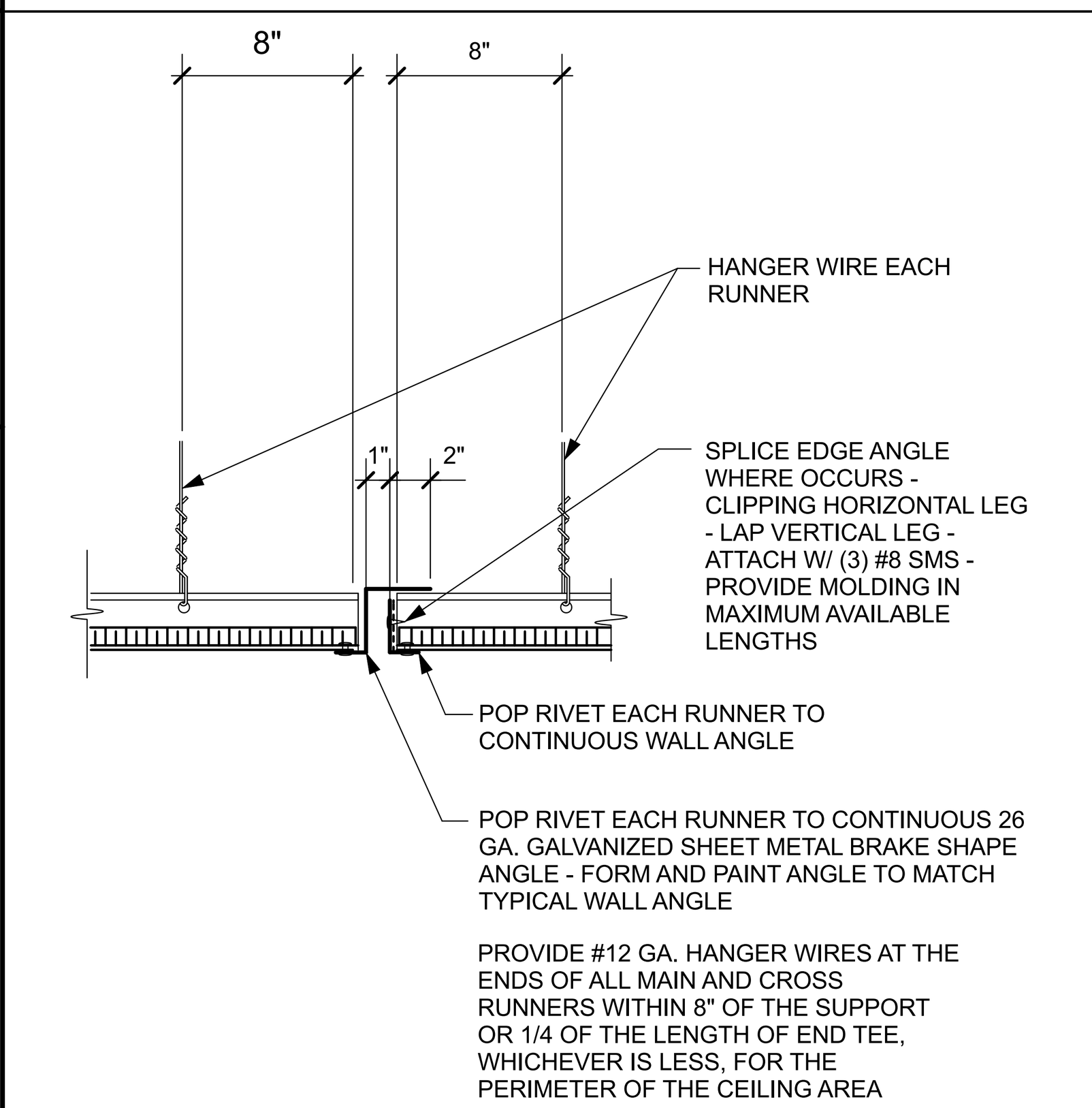
DATE	PROJECT NO.
4/6/2022	2022.040



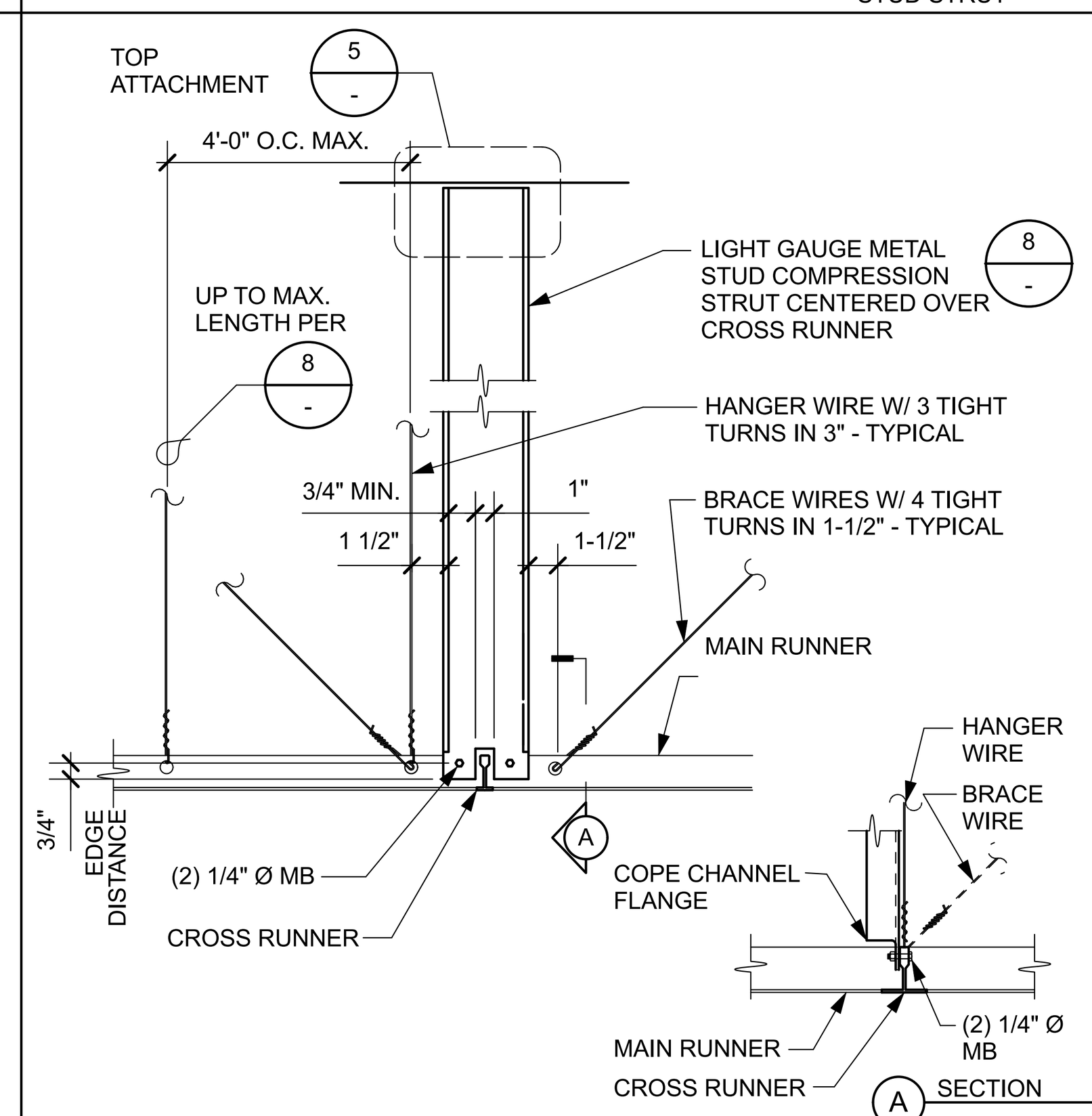
5 COMPRESSION STRUT TOP ATTACHMENT
Scale: 3/4" = 1'-0"
FOR METAL COMP. STUD STRUT



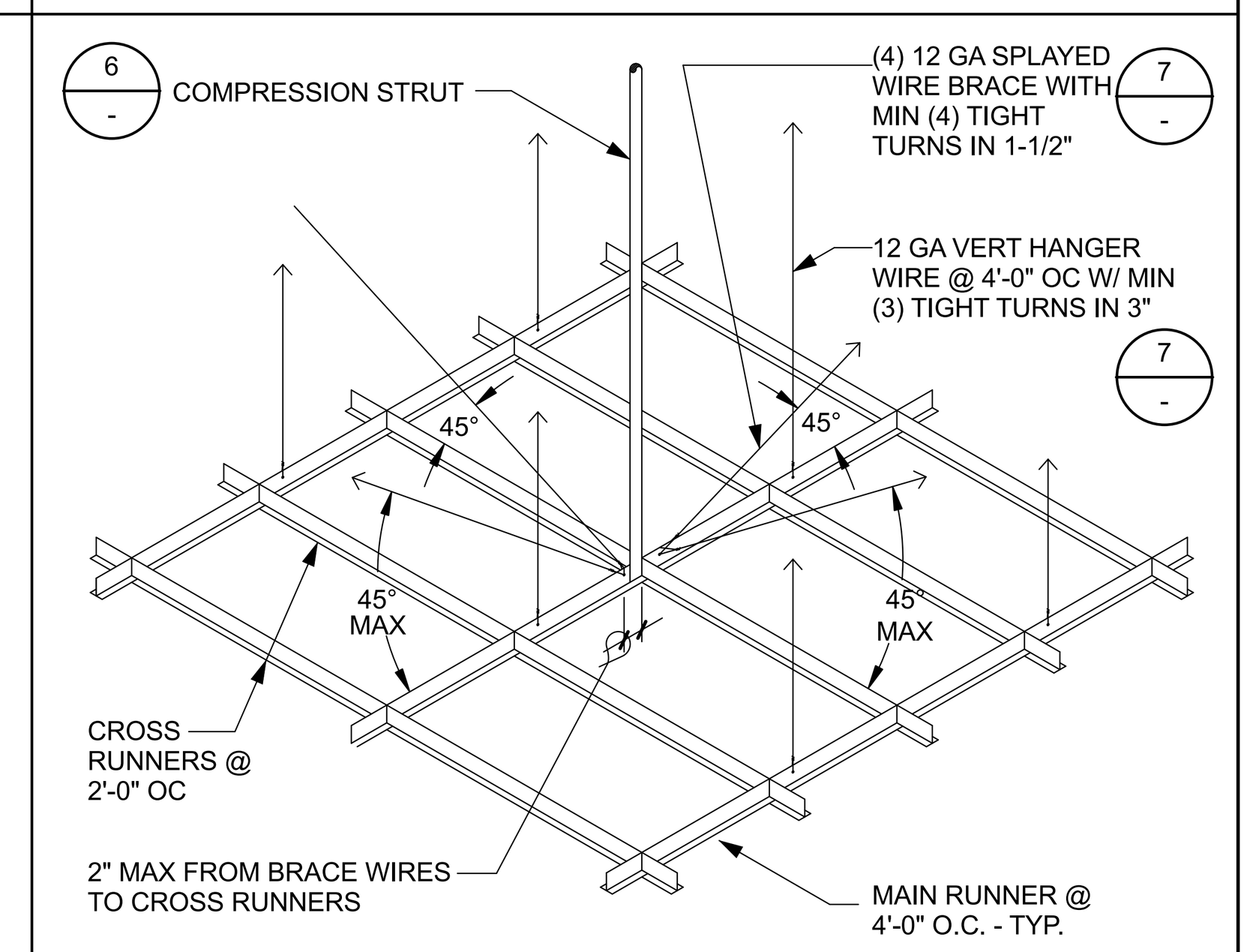
1 SUSPENDED ACOUSTIC TILE CEILING
Scale: 1/8" = 1'-0"
SEE SUSPENDED CEILING NOTES



14 EXPANSION JOINT - CORRIDOR INTERSECTION
Scale: 1 1/2" = 1'-0"

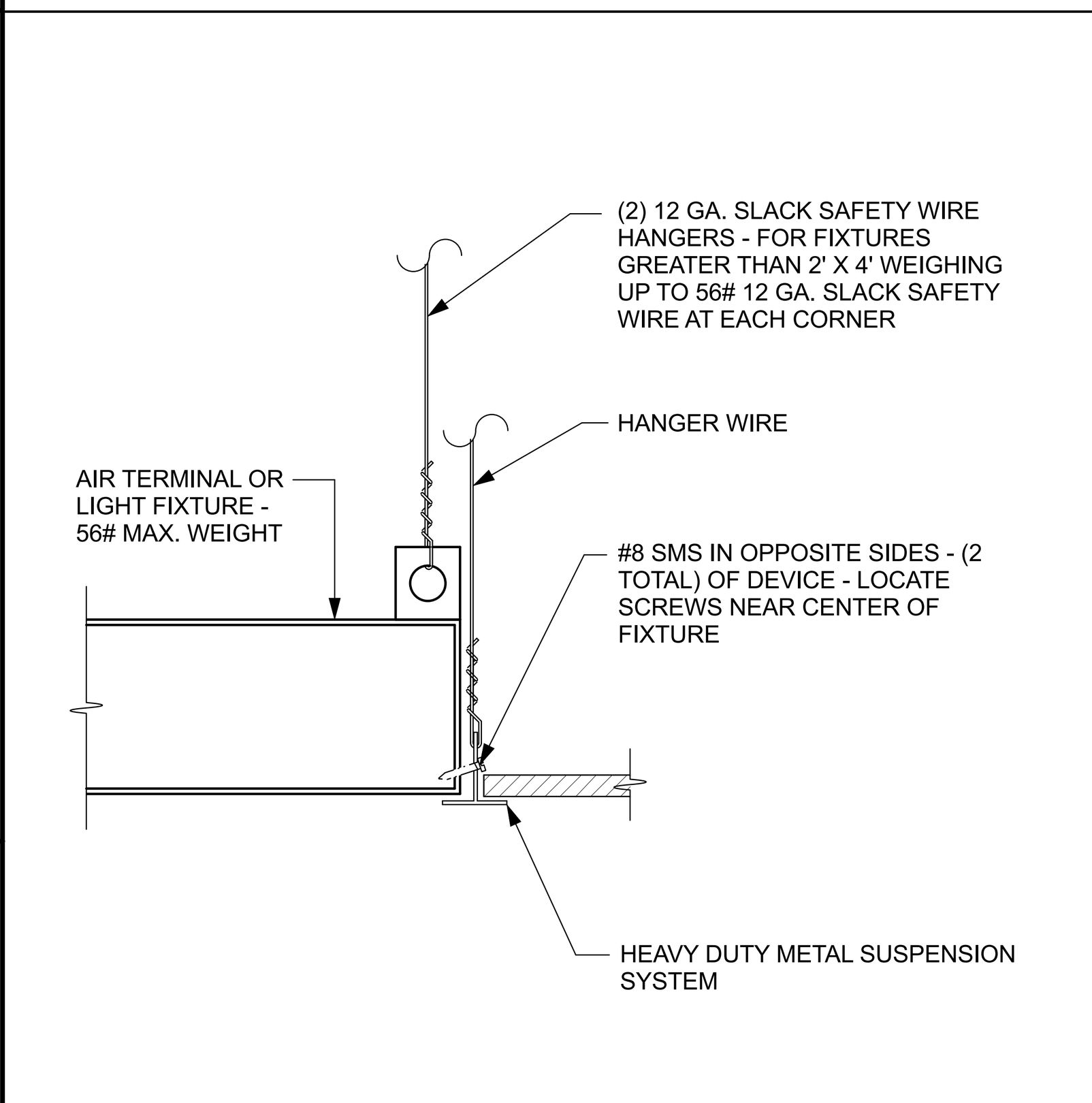


6 COMPRESSION STRUT BOTTOM ATTACHMENT - CHANNEL
Scale: 1 1/2" = 1'-0"

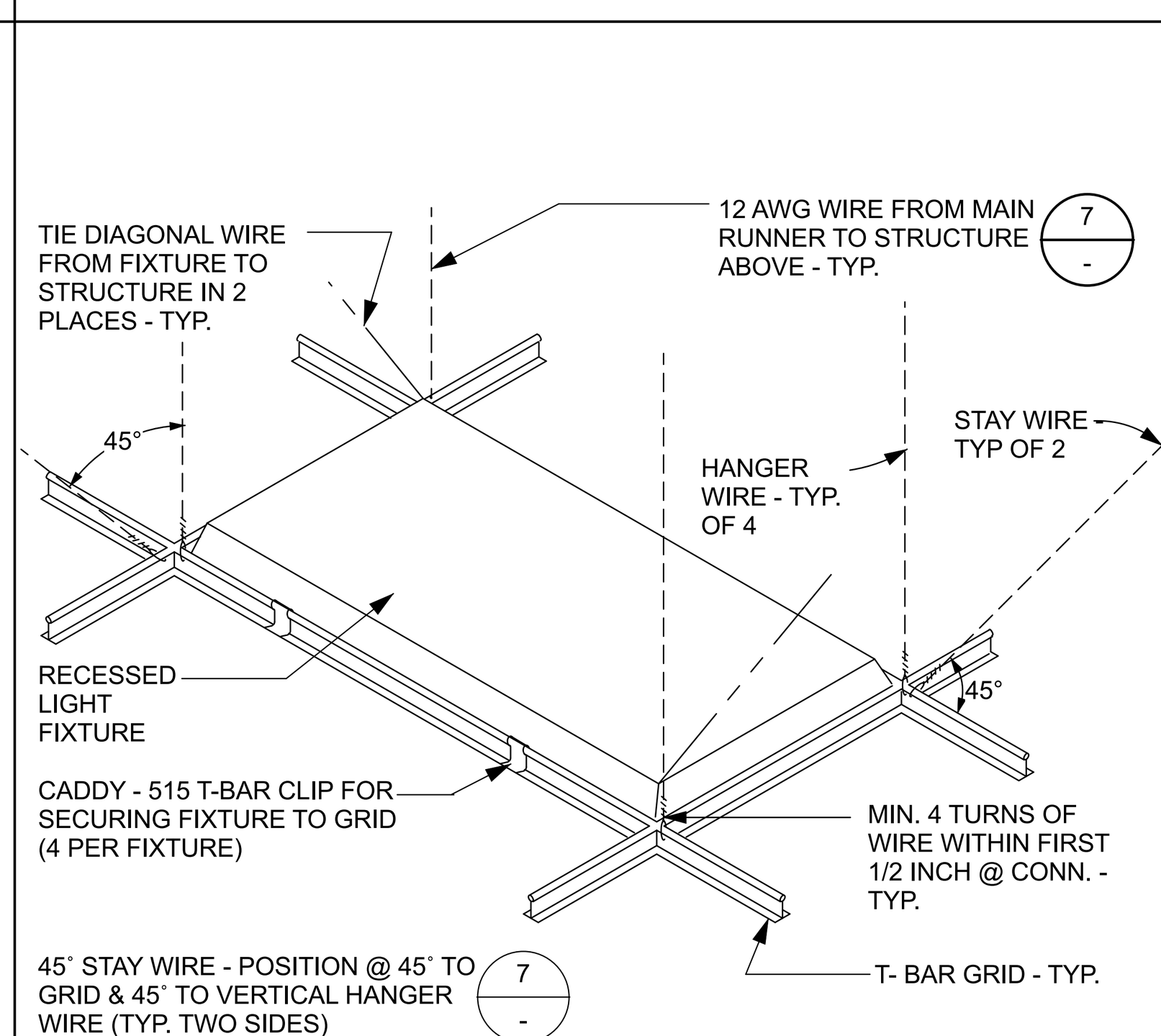


NOTE:
1. COMPRESSION STRUTS: STEEL SECTION WITH L/R RATIO OF 200 MAX., SECURE TO MAIN RUNNERS WITH 1/4" MB AND TO STRUCTURE ABOVE.
L = LENGTH OF COMPRESSION STRUT.
R = RADIUS OF GYRATION OF COMPRESSION STRUT. RADIUS OF GYRATION OF COMPRESSION STRUT MATERIAL MUST BE VERIFIED
2. COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE.
3. SEE COMPRESSION STRUT TABLE FOR ALLOWABLE STRUT SIZES.

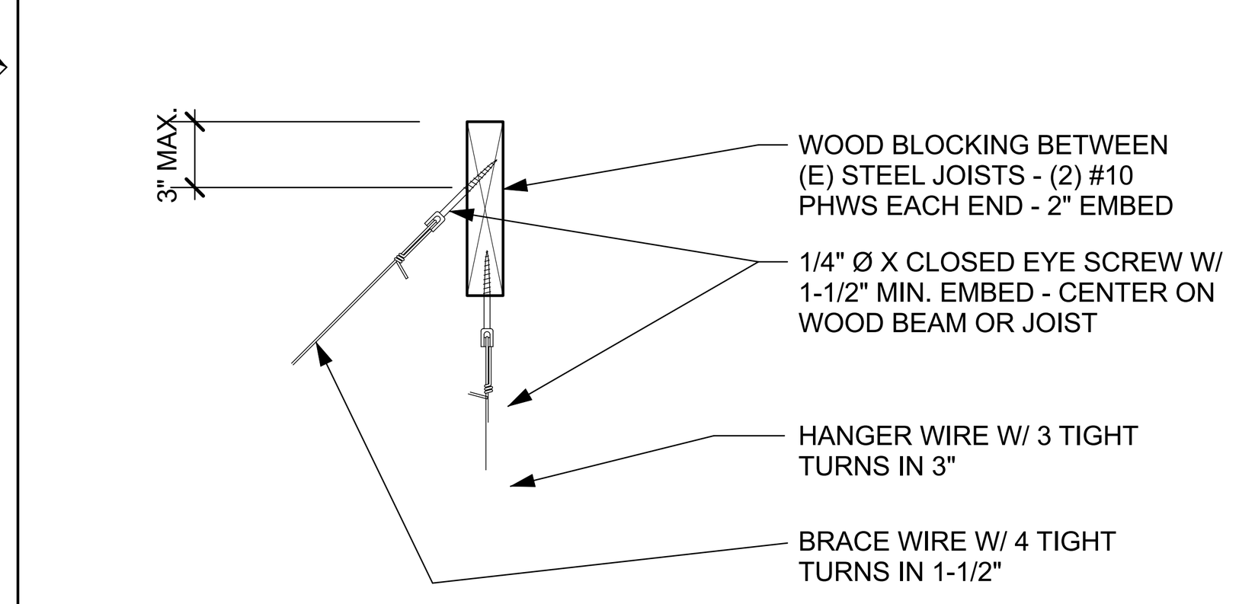
2 TYP SUSPENSION GRID DIAGRAM - ACOUSTIC TILE CEILING
Scale: 3/4" = 1'-0"



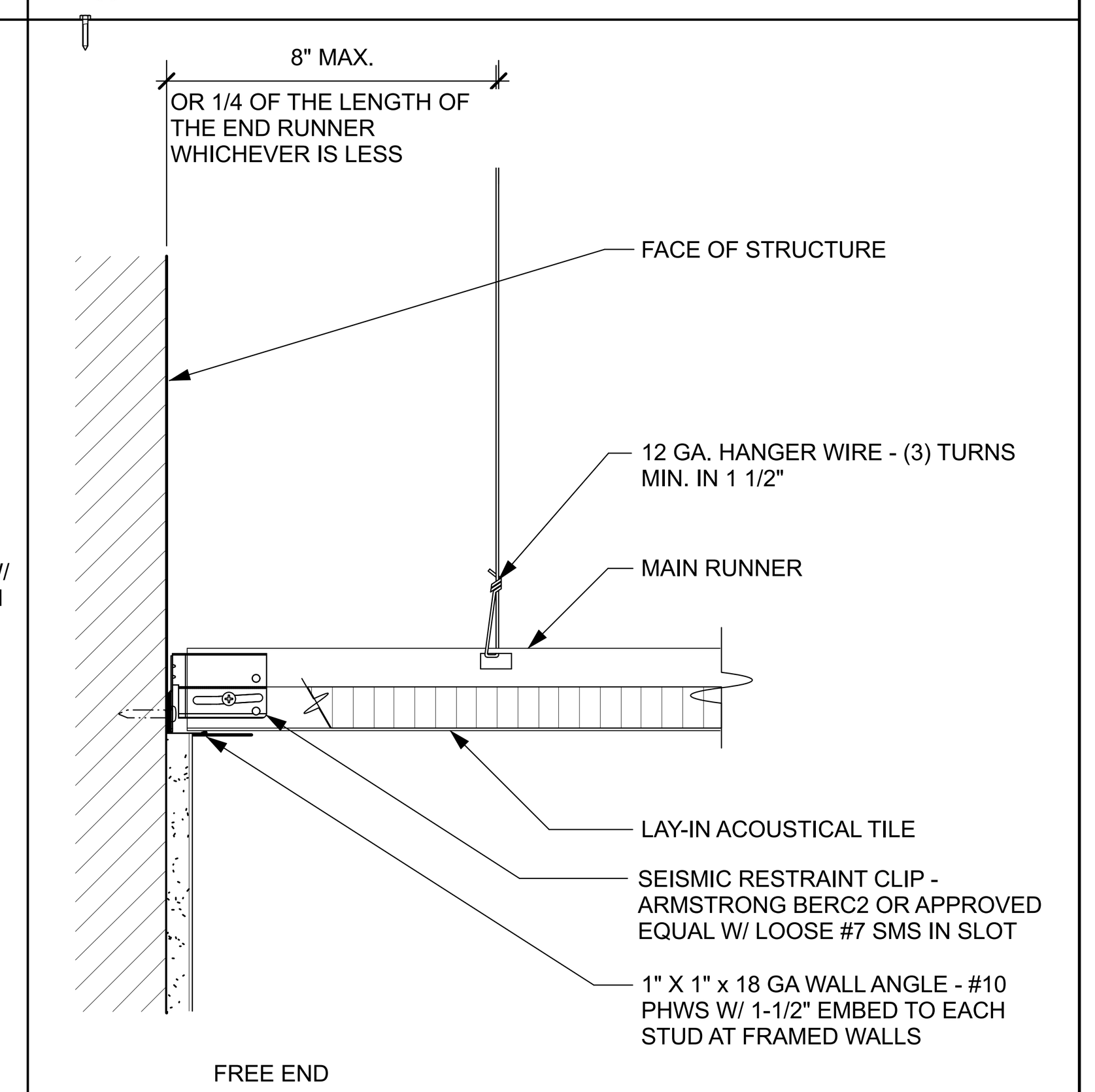
15 LIGHT FIXTURE / AIR TERMINAL SUPPORT
Scale: 3" = 1'-0"



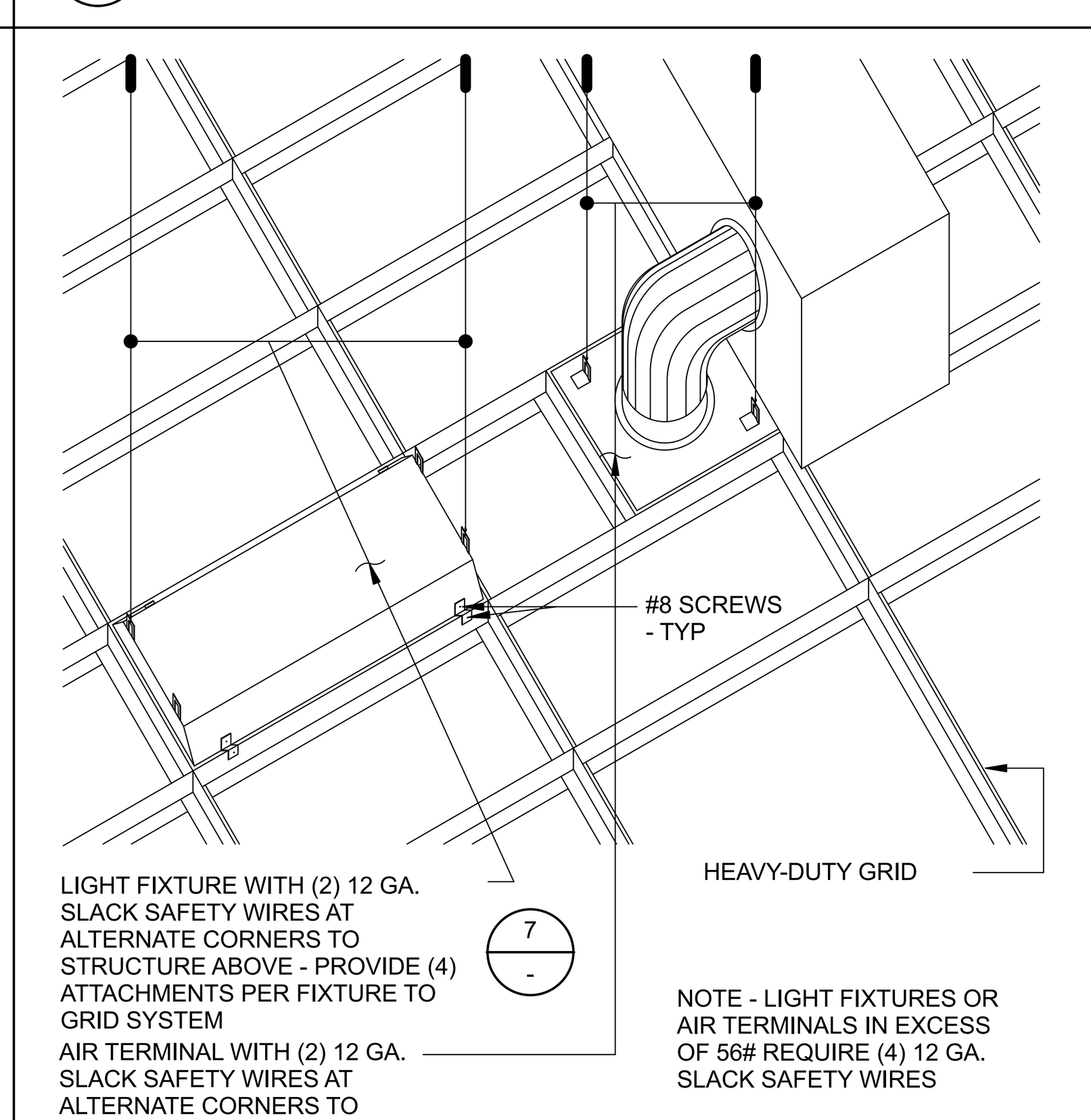
11 RECESSED FLUORESCENT LIGHT FIXTURE
N.T.S



7 HANGER WIRE CONNECTION @ WOOD BEAM
Scale: 1 1/2" = 1'-0"



3 CEILING PERIMETER - FREE END AT WALL
Scale: 3" = 1'-0"



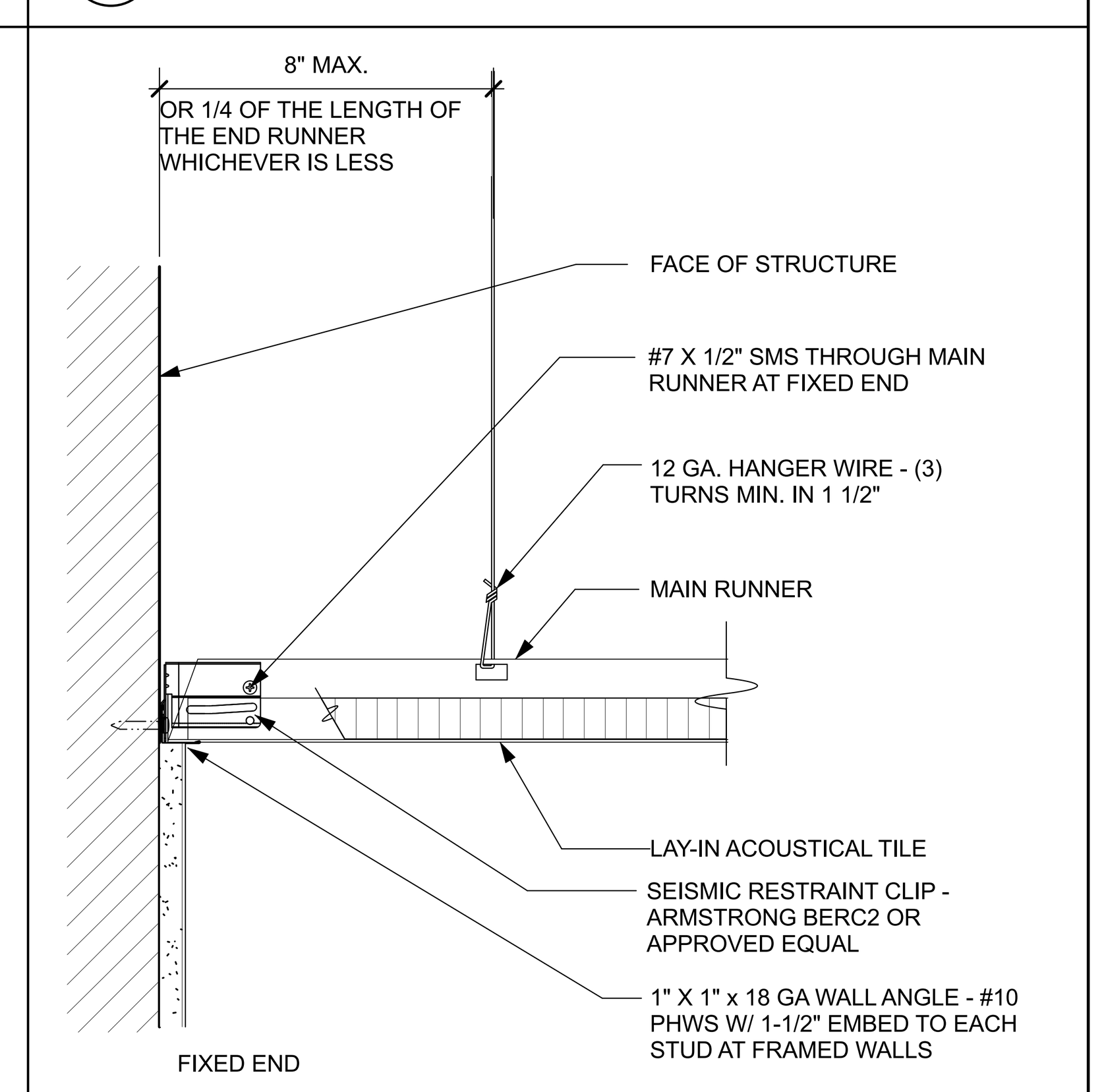
12 FIXTURE BRACING DETAIL
Scale: 1/2" = 1'-0"

TUBING & METAL STUD COMPRESSION STRUT TABLE

MATERIAL	MAX. LENGTH
METAL STUDS	
250S125-33	5'0"
250S137-33	6'10"
362S137-33	8'0"
250S137-43	7'2"
400S137-43	9'2"

THESE METAL STUDS MAY BE USED FOR COMPRESSION STRUTS IN SUSPENDED ACOUSTIC CEILINGS UP TO THE MAXIMUM LENGTH INDICATED

8 COMPRESSION STRUT
Scale: 3" = 1'-0"



4 SUSPENDED CEILING - FIXED END AT WALL
Scale: 3" = 1'-0"

SUSPENDED ACOUSTIC PANEL CEILING NOTES

PER DSA IR 23-2.13

1. CEILING SYSTEM GENERAL NOTES:
1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10A.
1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.
1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEMS ARE PART OF THE SCOPE OF THIS PROJECT:

COMPONENTS SHALL COMPLY WITH THE FOLLOWING SCHEDULE RUNNERS.
COMPONENTS SHALL BE RATED AS HEAVY DUTY:

MANUFACTURER	MAIN RUNNER MODEL NO.	CROSS RUNNER MODEL NO.	ESR REPORT NUMBER	EVALUATION REPORT TYPE & NO.
ARMSTRONG	7301	XL 7300	1322	PA-041
CHICAGO METALLIC	200	1204(2)	2631	PA-026
DONN CORPORATION	DX26	CX424(3)	1222	PA-030

FOOTNOTES:
(1) FOR 2 X 2 GRID USE 7324
(2) FOR 2 X 2 GRID USE 1226
(3) FOR 2 X 2 GRID USE DX216

1.04 SEISMIC WALL CLIP:

MANUFACTURER	MODEL NO.
ARMSTRONG	BERC2
CHICAGO METALLIC	1496.00
DONN CORPORATION	ACM7

SEISMIC CLIP AND CEILING SYSTEM SHALL BE BY SAME MANUFACTURER.

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¾" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ¾" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP.

2. MATERIALS:
2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09A. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.
2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007, INCLUDING SUPPLEMENT 2 DATED 2010 (AISI S100-07/S2-10). MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:
3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)

4. FASTENERS AND WELDING:
4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
4.02 EXPANSION ANCHORS SHALL BE: HILTI KB-TZ - ESR 1917 EVALUATION REPORT.
4.03 POWER-ACTUATED FASTENERS SHALL BE: NOT USED IN THIS PROJECT.
4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
4.05 POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST - INSTALLED ANCHOR.
4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
5.01 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913A.7.
5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1913A.7.

6. LIGHT FIXTURES:
6.01 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.
6.02 SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
6.03 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
6.04 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
6.05 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.

EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.
6.06 ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING:
7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING:
8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

CEILING SEISMIC NOTES

SPACING AT LATERAL BRACING

SDS 1.797	SEE STRUCTURAL DRAWINGS	
	BRACE ASSEMBLY SPACING	
	Z/H ≤ 0.5	Z/H > 0.5
SDS ≤ 1.15	12 X 12	12 X 12
1.15 < SDS ≤ 1.73	12 X 12	8 X 12
SDS > 1.73	8 X 12	8 X 8

PC CLASSROOM BUILDING

Z	13 FT
H	11.5 FT
Z / H	1.13
BRACE ASSEMBLY SPACING	**8' X 8'**

NOTES:

Z = HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING WITH RESPECT TO THE BASE

H = AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.

BRACE ASSEMBLY SPACING FOR Z/H > 0.5 MAY BE USED FOR FULL BUILDING HEIGHT

SHEET NOTES

LEGEND

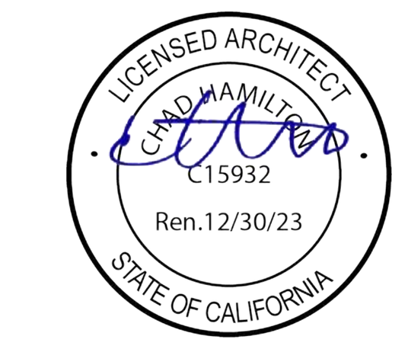
PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com



Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE

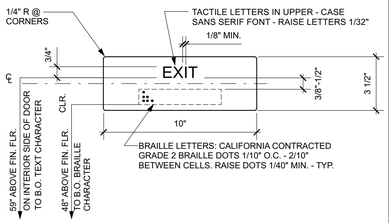
CEILING DETAILS

SHEET NUMBER

A9.2

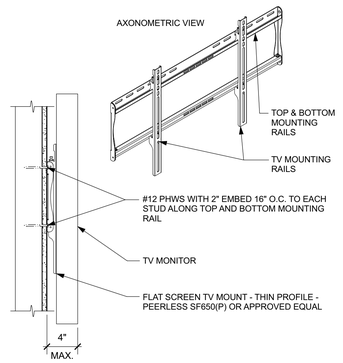
CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040

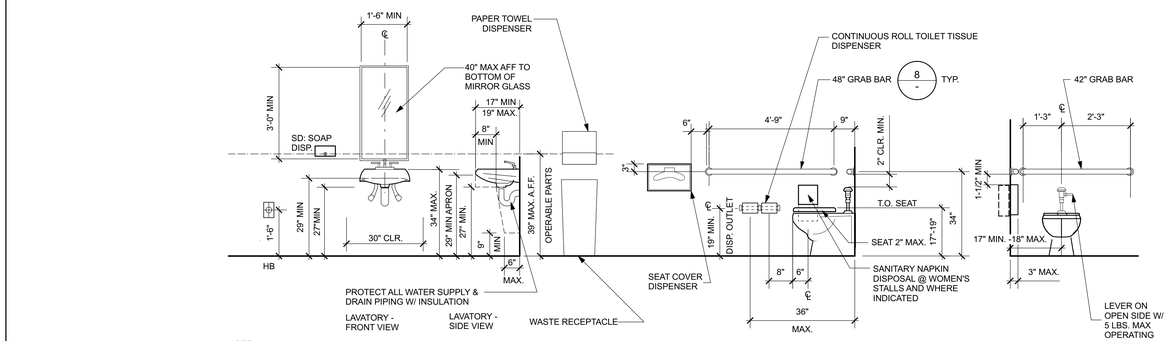


17 TACTILE EXIT SIGNAGE
Scale: 3" = 1'-0"

E



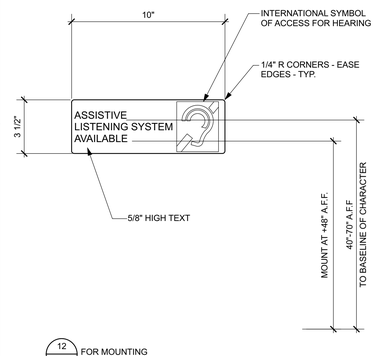
13 TV MOUNT
Scale: 1 1/2" = 1'-0"



NOTE:
THIS DETAIL SHOWS REQUIREMENTS FOR COMPLIANCE WITH ACCESSIBILITY CODES. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF FIXTURES AND ACCESSORIES WHERE THEY OCCUR. SEE TOILET ACCESSORY SCHEDULE AND SPECIFICATIONS FOR SPECIFIC SIZES AND PRODUCTS.

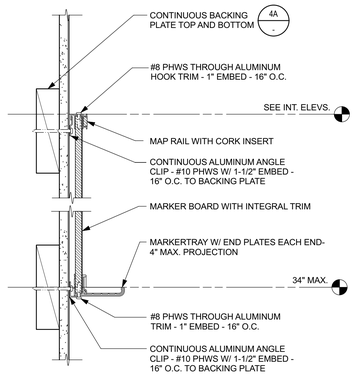
4 PROVIDE SOLID BLOCKING BEHIND ALL GRAB BARS AND TOILET ACCESSORIES FOR MOUNTING

1 FIXTURE MOUNTING HEIGHTS
Scale: 1/2" = 1'-0"

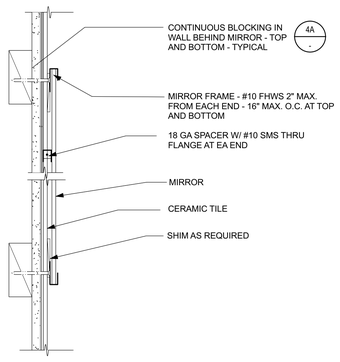


18 ASSISTIVE LISTENING DEVICE SIGN
Scale: 3" = 1'-0"

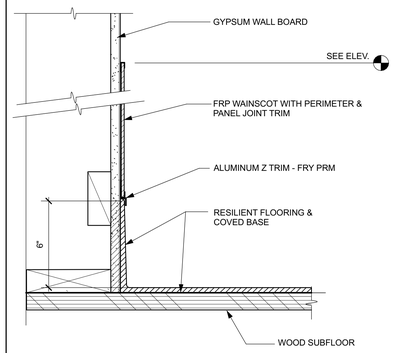
D



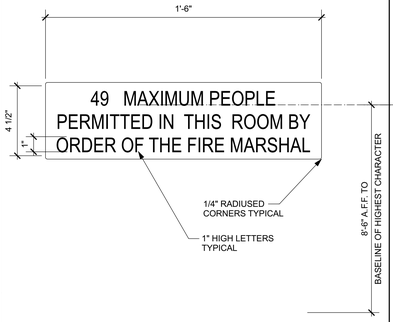
14 MARKERBOARD
Scale: 3" = 1'-0"



10 MIRROR
Scale: 3" = 1'-0"

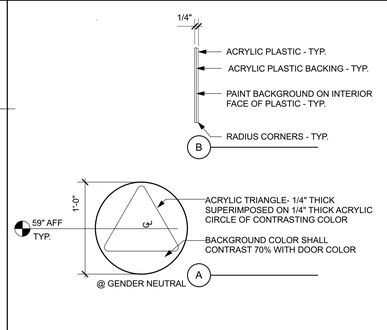


2 FRP WAINSCOT/ COVE BASE
Scale: 3" = 1'-0" TCA- F121 & W244



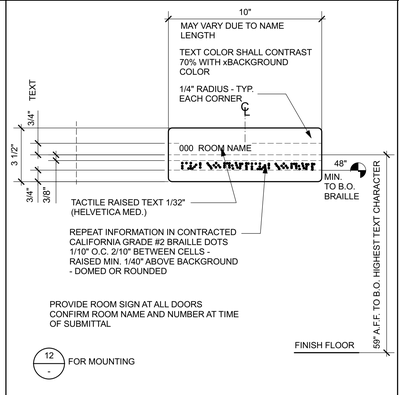
19 ROOM CAPACITY SIGN DETAIL
Scale: 3" = 1'-0"

B



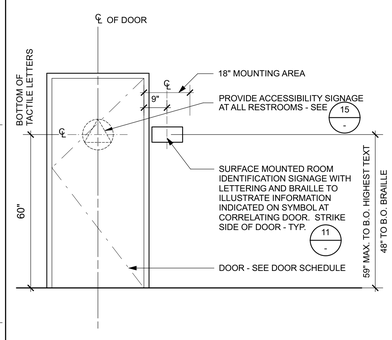
15 TOILET DOOR SIGNAGE
Scale: 1 1/2" = 1'-0"

A

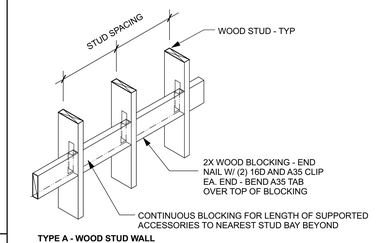


11 ROOM NAME /NUMBER SIGNAGE
Scale: 3" = 1'-0"

C

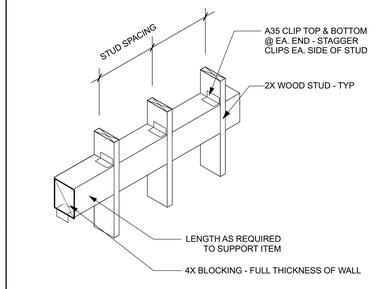


7 TYPICAL ELEVATION - SIGNAGE MOUNTING
Scale: 1/2" = 1'-0"



TYPE A - WOOD STUD WALL

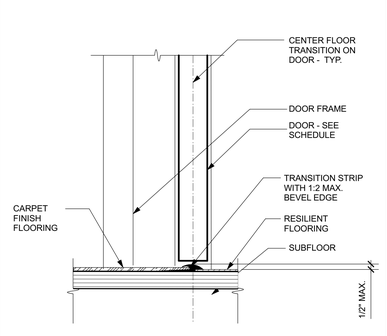
TOILET ACCESSORIES, CHALK AND TACK BOARDS, BASE CABINETS, TALL STORAGE CABINETS, MARKER BOARD ASSEMBLY, FURNACE ENCLOSURE, DOWN SPOUTS



TYPE C - WOOD STUD WALL

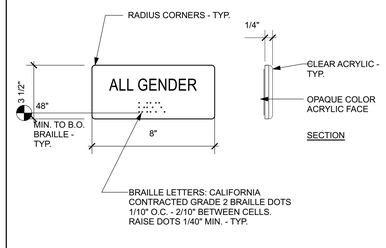
GRAB BARS AND PIPE RAILS - NOT FOR USE WITH PLUMBING FIXTURE

4 WOOD BACKING PLATE SCHEDULE
Scale: 3/4" = 1'-0"



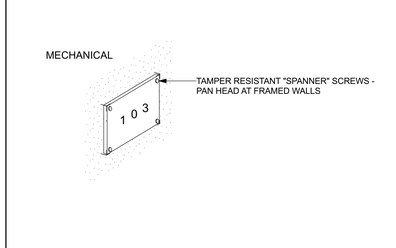
20 THRESHOLD - CARPET
Scale: 3" = 1'-0"

A

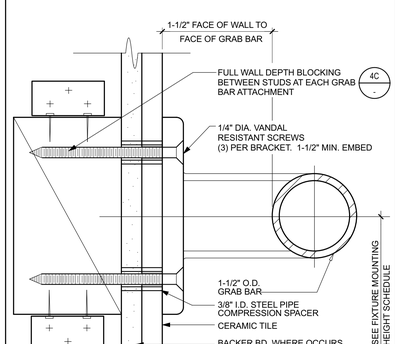


16 TOILET ROOM DOOR STRIKE SIDE SIGNAGE
Scale: 3" = 1'-0"

B



12 TYPICAL MOUNTING DETAILS
Scale: 1/2" = 1'-0"



8 GRAB BAR @ WOOD STUD
Scale: 1:1

KEY NOTES

SHEET NOTES

1. ALL EXPANSION BOLTS TO CONCRETE SHALL BE HILTI KB-TZ - SEE ESR 1917

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT
C15932
Ren.12/30/23
STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22

APPROVALS

KEY PLAN

DRAWING TITLE

ACCESSIBILITY & MISCELANEOUS DETAILS

SHEET NUMBER

A10.1

CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040

PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.
2. COORDINATE LOCATION OF PIPING WITH OTHER TRADES ON THIS PROJECT.
3. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
4. PROVIDE BALL VALVES ON WATER PIPE BRANCHES TO EQUIPMENT AND PLUMBING FIXTURES. PROVIDE ACCESS PANELS WHEN LOCATED IN FURRED SPACES OR ABOVE NON-REMOVABLE CEILINGS. ALL VALVES SHALL BE FULL LINE SIZE.
5. SEAL ALL PIPE PENETRATIONS THROUGH FLOORS WATERTIGHT.
6. PROVIDE GAS SHUT-OFF VALVE, UNION AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.
7. DOMESTIC HOT WTER HEATERS SHALL BE SEISMICALLY SECURED TO BUILDING STRUCTURE WITH ADEQUATE STRUCTURAL SUPPORT WITH ANCHOR BOLTS.
8. PRIOR TO ANY SOLENOID VALVE, QUICK CLOSING VALVE, ETC. PROVIDE AND INSTALL SHOCK ABSORBER OF REQUIRED SIZE.
9. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL OF THE ENFORCING AGENCY.
10. OFFSET VENTS THROUGH ROOF 10 FEET MINIMUM FROM AIR INTAKES AND 4 FEET FROM OUTSIDE WALLS.
11. CONDENSATE DRAIN CONNECTIONS TO MECHANICAL UNITS SHALL INCLUDE MINIMUM 4" DEEP "P" TRAP AND CLEANOUTS AT ALL OFFSETS.
12. ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.
13. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
14. FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPIING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.
15. BUILDILNG SEWER, WATER AND STORM DRAIN RUN APPROXIMATELY 5' AWAY FROM BUILDING, SECTION 22 10 00 APPLIES TO UTILITIES IN THE BUILDING, UNDER THE BUILDING AND TO 5' OUTSIDE THE BUILDING, BEYOND THE 5' OUTSIDE OF BUILDING SECTION 02 70 00 GOVERNS.
16. ALL FLOOR MOUNTED FIXTURES, CLEAN OUTS AND FLOOR DRAINS TO BE FLUSH MOUNTED WITH 2% MAXIMUM SLOPE.

PLUMBING ANCHORAGE NOTES

ALL PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FLOOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED OR HARD PIPED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT FOR PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING PLUMBING COMPONENTSSHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED REPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAV BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING DISTRIBUTION SYSTEM BRACING NOTES

PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE INDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (SUCH AS SMACNA OR OSHPD OPM FOR 2013 CBC OR LATER). 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 OT SUPPORT THE HANGER AND BRACE LOADS.

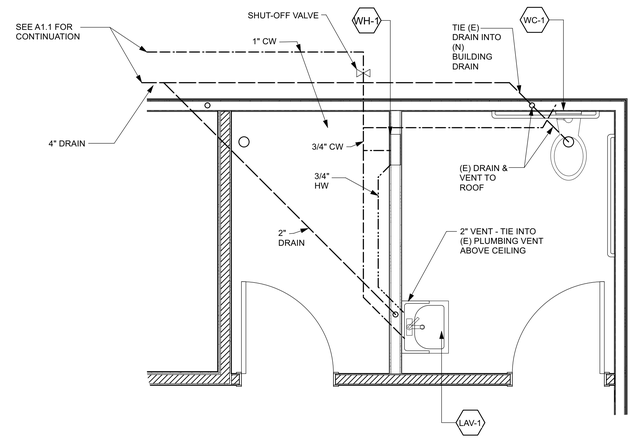
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

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

MP -PP OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#) #0043-13.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	COUNT	MANUFACTURER & MODEL NO.			FINISH	REMARKS
			FIXTURE	FAUCET	TRIM		
WC-1	WATER CLOSET	1	(E) WATER CLOSET TO REMAIN			WHITE	
L-1	LAVATORY WALL MOUNTED HOT & COLD WATER ACCESSIBLE	2	SALVAGE (E) WALL MOUNTED LAVATORY AND SUPPORT	(E) LEVER ACTION FAUCET		WHITE	



1 ENLARGED TOILET ROOM PLAN
Scale: 1/2" = 1'-0"

FOR UTILITY LINES 1 / A1.1

FOR TRENCHING INFORMATION 13 & 14 / A1.9

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MODEL	FAUCET OR VALVE	TRIM	REMARKS	VENT	WASTE	COLD WATER	HOT WATER
LAV-1	SALVAGED LAVATORY		SALVAGED FAUCET	ADA COMPLIANT: LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH, MOUNT P-TRAP FLUSH TO WALL		2"	2"	3/4"	3/4"
WC-1	(E) WATER CLOSET TO REMAIN								

WATER HEATER SCHEDULE

MARK	MODEL	DESCRIPTION	kW	AMPS	VOLTS	MOUNT		WEIGHT	DETAIL	REMARKS
WH-1	RHEEM RETEX 13	ELECTRIC HOT WATER HEATER, DEMAND TYPE	13	54	240	WALL SEMI-RECESSED				MOUNT ABOVE TOE CLEARANCE HEIGHT

KEY NOTES

REF	KEY	NOTE

SHEET NOTES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

LICENSED ARCHITECT — LYNN HAMILTON — C15932 — Ren.12/30/23 — STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22
3	RE: BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

PLUMBING FLOOR PLAN

SHEET NUMBER

P2.1

CAD FILE: 22040_TTB.vwx

DATE	PROJECT NO.
4/6/2022	2022.040

MECHANICAL GENERAL NOTES

1. THESE DRAWINGS & NOTES SHALL BE READ IN CONJUNCTION WITH & BE CONSIDERED TO BE PART OF A SEPARATE & COMPLETE MECHANICAL SPECIFICATION.
2. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS, INCLUDING:
   - 2.1. 2019 CALIFORNIA BUILDING CODE (CBC) - CCR TITLE 24 PART 2
   - 2.2. 2019 CALIFORNIA ELECTRICAL CODE (CEC) - CCR TITLE 24 PART 3
   - 2.3. 2019 CALIFORNIA MECHANICAL CODE (CMC) - CCR TITLE 24 PART 4
   - 2.4. 2019 CALIFORNIA PLUMBING CODE (CPC) - CCR TITLE 24 PART 5
   - 2.5. 2019 CALIFORNIA FIRE CODE (CFC) - CCR TITLE 24 PART 9
   - 2.6. 2019 CALIFORNIA EXISTING BUILDING CODE - CCR TITLE 24 PART 10
   - 2.7. 2019 CALIFORNIA GREEN BUILDING (CGB) STANDARD
   - 2.8. 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
3. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED FEES, PERMITS AND INSPECTIONS.
4. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM(S) WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS FOR A COMPLETE AND WORKABLE INSTALLATION. COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS. PROVIDE A COMPLETE WORKING SYSTEM PER CONTRACT DOCUMENTS.
5. COORDINATE ALL WORK WITH THE ARCHITECTURAL, STRUCTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL WORK, STRUCTURAL MEMBERS AND WORK OF OTHER TRADES. NO ITEM SUCH AS PIPE, DUCT, ETC. SHALL BE IN CONTACT WITH ANY EQUIPMENT. ANY ERRORS, OMISSIONS, DISCREPANCIES, DEFICIENCIES, OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, THE ARCHITECT AND THE ENGINEER PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
6. FIELD VERIFY EXACT SIZE AND LOCATION OF (E)EQUIPMENT, DUCTWORK, & REGISTERS PRIOR TO INSTALLATION OF ANY NEW EQUIPMENT, DUCTWORK OR REGISTERS. IF THE (E)DUCTWORK SIZE IS SMALLER THAN THE NEW DUCTWORK SIZE, AND/OR THE (E)DUCTWORK IS NOT IN THE NOTED LOCATION, NOTIFY OWNER IMMEDIATELY & NO NEW DUCTWORK IS TO BE INSTALLED UNTIL THE ISSUE IS RESOLVED.
7. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, & GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, FIRE SPRINKLER SYSTEM, AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION & INSTALLATION.
8. EQUIPMENT, DUCTS, PIPING, & OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER PROOFED & PAINTED TO MATCH. COORDINATE WITH ARCHITECT PRIOR TO PAINTING.
9. VERIFY ALL CLEARANCES & AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATION.
10. DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE AND/OR PER ARCHITECTURAL DRAWINGS. ANY SCALE NOTATIONS ARE TO BE VERIFIED PRIOR TO ANY TAKE-OFF.
11. PRIOR TO OCCUPANCY THE ENTIRE HVAC SYSTEMS SHALL BE BALANCED BY AN INDEPENDENT AIR BALANCE CONTRACTOR FOR AIR IN ACCORDANCE AND PROCEDURES WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS, (NEBB) NATIONAL ENVIRONMENTAL BALANCING BUREAU , OR (TABB) TESTING ADJUSTING & BALANCING BUREAU. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING OUTSIDE AIR VENTILATION. FINAL BALANCING SHALL BE WITHIN 10% FOR SUPPLY, RETURN & OUTSIDE AIR QUANTITIES INDICATED. WHERE THERE IS A CONFLICT IN PLANS, NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT DONE SO THE ENTIRE SYSTEM MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. PROVIDE A COPY OF THE AIR BALANCE REPORT TO THE ENGINEER FOR REVIEW. PROVIDE PROCEDURES & REPORTING PER CAL GREEN CODES SECTION 5.410.4.3, SECTION 5.410.4.3.1 AND SECTION 5.410.4.4.
12. AIR BALANCE CONTRACTOR TO PERFORM NECESSARY TASKS TO OBTAIN AIR FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.
13. ADHESIVES, SEALANTS & CAULKING SHALL BE COMPLIANT WITH LOW VOC OR OTHER TOXIC COMPOUND LIMITS SET BY (R) 4.504.2 &/OR (NR)5.504.4.
14. NONRESIDENTIAL (NR) VOLUNTARY MEASURE: CONTRACTOR TO PROVIDE FLUSH-OUT PER GREEN POINT RATING REQUIREMENTS SECTION A5.504.1.1 & A5.505.1.2 INCLUDING TEMPORARY BLOWER.
15. ACCESSORIES AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
16. CONTRACTOR TO SUBMIT ALL DUCTWORK, AIR DISTRIBUTION DEVICES, & OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.
17. AT THE TIME OF ROUGH INSPECTION AND DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS, OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS TO REDUCE THE AMOUNT OF DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PROVIDE POLLUTANT CONTROL PER CAL GREEN 2019 CODES SECTION 5.504.1-3 FOR TEMPORARY VENTILATION, COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION, AND USE OF LOW VOC SEALANTS
18. ALL SUPPLY, RETURN AND EXHAUST DUCT JOINTS SHALL BE SEALED PER CMC CHAPTER 6 REQUIREMENTS. SEAL CLASS B.
19. DUCTWORK CONSTRUCTION SHALL MEET THE FOLLOWING SYSTEM PRESSURE REQUIREMENTS:
    19.1. ALL DUCTWORK - 2 INCH WATER COLUMN
20. DUCTWORK CONSTRUCTION SHALL BE INSTALLED AND SEALED TO MEET THE REQUIREMENTS OF CMC SECS 601.0, 602.0, 603.0, 605.0; AND ANSI, SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. DUCTWORK AND ACCESSORIES WILL BE INSTALLED IN ACCORDANCE WITH NFPA 90A, NFPA 90B, ASHRAE HANDBOOK, AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, UL 181 CERTIFIED AND THE CMC AND THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AS APPLICABLE. MOUNTING AND SUPPORTING OF EQUIPMENT, DUCTS, ACCESSORIES, AND APPURTENANCES SHALL BE PROVIDED, INCLUDING STRUCTURAL SUPPORTS, HANGERS, STANDS, CLAMPS AND BRACKETS. NEW RECTANGULAR DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL ROUND.
21. ALL FLEXIBLE DUCT SHALL NOT EXCEED FIVE FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, OR OTHER AIR DEVICES. FLEX DUCT SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS PER CMC SEC. 603.4.1. FLEXIBLE DUCT MAY BE USED AS AN ELBOW AT A TERMINAL DEVICE USING 'FLEX RIGHT' FOR SIZES 4" TO 16".
22. LIMIT USE OF PERMANENT HVAC SYSTEMS DURING CONSTRUCTION TO CONDITIONING NECESSARY FOR MATERIAL AND EQUIPMENT INSTALLATION. IF PERMANENT HVAC IS USED DURING CONSTRUCTION, INSTALL MERV-8 FILTERS ON RETURNS, AND REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR ,IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.
23. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED TO MEET CMC 604. INTERIOR DUCTWORK SHALL BE INSULATED WITH A NON-FIBROUS MATERIAL, R=4.2. ALL SUPPLY AND RETURN DUCTWORK EXPOSED TO WEATHER SHALL BE INTERNALLY LINED WITH 2" THICK DUCT LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES INDICATED ON PLANS ARE NET INSIDE DIMENSIONS. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50. ALL DUCT INSULATION SHALL COMPLY WITH TABLE 4-16, 2019 CALIFORNIA NONRESIDENTIAL MANUAL.
24. CONTRACTORS OPTIONS: WHERE ROUND LINED DUCTWORK IS INDICATED, CONTRACTOR MAY USE RECTANGULAR DUCTWORK OF EQUIVALENT NET FREE AREA OR PRESSURE DROP (WHICHEVER IS MOST RESTRICTIVE).
25. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCING CONTRACTOR PRIOR TO BID, SO AS TO ENSURE ACCESSIBILITY AFTER INSTALLATION. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS OTHERWISE NOTED.
26. REMOVE ALL LEFT OVER DUCTWORK SCRAPS, ETC. (IF ANY) & LEAVE PREMISES CLEAN AND FREE OF ANY TRASH OR DEBRIS DUE TO THEIR WORK.

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 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC SECTION 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), 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 THE BRACE LOADS.

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

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

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#);(I.E. OPM 0114-13 B-LINE, OPM#-0043-13 MASON INDUSTRIES INC., AND OPM#-0203-13 M.W. SAUSSE & CO. INC.).

M/E/P COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

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. "PERMANENTLY ATTACHED" SHALL INCLUDED ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSFERS AND LONGITUDINAL DIRECTIONS:

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 WEIGHING 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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	AL	ACOUSTICALLY LINED
	OA	OUTSIDE AIR
	RA	RETURN AIR
	SA	SUPPLY AIR
	TA	TRANSFER AIR
	BOD	BOTTOM OF DUCT
	CFM	CUBIC FEET PER MINUTE
	BDD	DAMPER: BACKDRAFT
	FD	DAMPER: FIRE
	FSD	DAMPER: FIRE/SMOKE
	MVD	DAMPER: MANUAL VOLUME
	Ø	DIAMETER
	DN	DOWN
	DS	DISCONNECT SWITCH
	EER	ENERGY EFFICIENCY RATIO
	(E)	EXISTING
		FLEXIBLE DUCT
	HP	HORSEPOWER
	MCA	MINIMUM CIRCUIT AMPACITY
	MOP	MAXIMUM OVERCURRENT PROTECTION
	MS	MOTOR STARTER
	TP	RATED THRU PENETRATION
	SAD	SEE ARCHITECTURAL DRAWING
	SSD	SEE STRUCTURAL DRAWING
		THERMOSTAT
	TYP	TYPICAL
	UON	UNLESS OTHERWISE NOTED
	WT	WEIGHT
	24x12	RECTANGULAR DUCT - INCHES
	12"	ROUND DUCT - INCHES

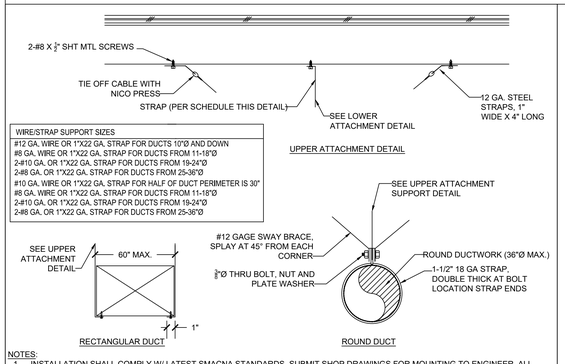
GRILLE SCHEDULE

EQPT. MARK	STATUS (D,E,N,R)	MANUF.	MODEL #	FINISH	BACK PAN FINISH	FRAME TYPE	AIR OUTLET NOTES	SCHEDULE NOTES (SEE BELOW)
CD-1	(N)	TITUS	PCS	#26 WHITE	BLACK	#3 LAY IN	24X24 PERFORATED FACE CEILING DIFFUSER; NECK SIZE SAME AS DUCT SIZE	1
RG-1	(N)	TITUS	PAR	#26 WHITE	BLACK	#3 LAY IN	24X24 PERFORATED FACE RETURN GRILLE; NECK SIZE SAME AS DUCT SIZE	2
RG-2	(N)	TITUS	PAR	#26 WHITE	BLACK	#3 LAY IN	24X12 PERFORATED FACE RETURN GRILLE; NECK SIZE SAME AS DUCT SIZE	2

NOTES	
1	MATCH NEW DIFFUSERS TO THE EXISTING GRILLES IN THE BUILDING; VERIFY WITH CLIENT/OWNER
2	CONNECT SOUND SOCK DUCTS TO RETURN GRILLES
3	NO DUCTWORK CONNECTED TO SIDEWALL RETURN GRILLES
4	
5	

DUCT SCHEDULE

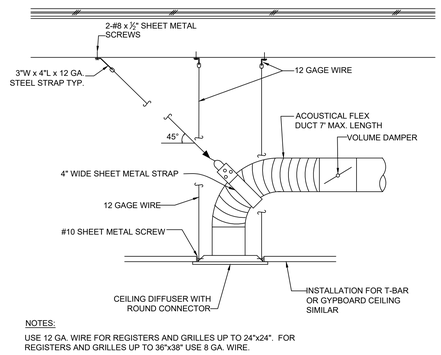
SYSTEM	SERVICE	LOCATION	TYPE	MATERIAL	PRESSURE CLASS	SUPPORT SPACING	INSULATION MATERIAL	INSULATION POSITION	R VALUE	JACKET	SCHEDULE NOTES (SEE BELOW)
EXISTING A/C	SUPPLY	ABOVE CEILING	DUCTWORK	FLEX DUCT	1.5" W.C.	5 FEET	FIBERGLASS	EXTERNAL	4.2	POLYESTER	1
EXISTING A/C	RETURN	ABOVE CEILING	DUCTWORK	SOUND SOCK	1.5" W.C.	5 FEET	FIBERGLASS	EXTERNAL	4.2	POLYESTER	2
NOTES											
1											
2											
3											
4											
5											



NOTES:
1. INSTALLATION SHALL COMPLY W/ LATEST SMACNA STANDARDS. SUBMIT SHOP DRAWINGS FOR MOUNTING TO ENGINEER. ALL ALTERNATE INSTALLATIONS SHALL BE APPROVED BY ENGINEER.
2. SEISMIC SWAY BRACING ONLY REQUIRED FOR EXPOSED DUCTWORK AND DUCTWORK EXCEEDING 33"Ø. ANY SEISMIC RESTRAINT SHALL COMPLY WITH THE OPM# AS INDICATED IN THE DUCTWORK AND PIPING DISTRIBUTION BRACING NOTES ON SHEET 2-M0.2.
3. MAXIMUM SUPPORT SPACING IS 12'-0".

SUPPLY AIR DUCT SUPPORT DETAIL

SCALE: NONE | 1



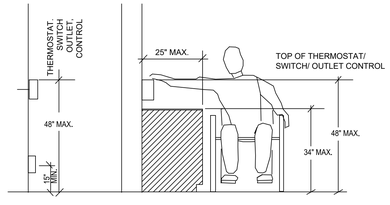
NOTES:
USE 12 GA. WIRE FOR REGISTERS AND GRILLES UP TO 24"x24". FOR REGISTERS AND GRILLES UP TO 36"x38" USE 8 GA. WIRE.

ROUND NECK CEILING DIFFUSER

CEILING DIFFUSER INSTALL DETAIL

SCALE: NONE | 2

NOTES:
ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM. IF THE REACH IS OVER A PHYSICAL BARRIER OR AN OBSTRUCTION (FOR EXAMPLE, A KITCHEN BASE CABINET), RECEPTACLES SHALL BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN SECTION 1138A.3. PHYSICAL BARRIERS AND OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25 INCHES FROM THE WALL BENEATH THE RECEPTACLE. 2016 CBC §1136A.1 (2016 CBC §11B-308.11 & 11B-308.1.2).



CONTROL DEVICE ADA MOUNTING HT.

SCALE: NONE | 3

KEY NOTES

SHEET NOTES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

HM MECHANICAL GROUP
8317 Earhart Rd, Suite 230
Oakland, CA 94621
Tel: 510-569-2000

JOHN GRIDI No. 1034214 MECHANICAL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22
3	BF BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

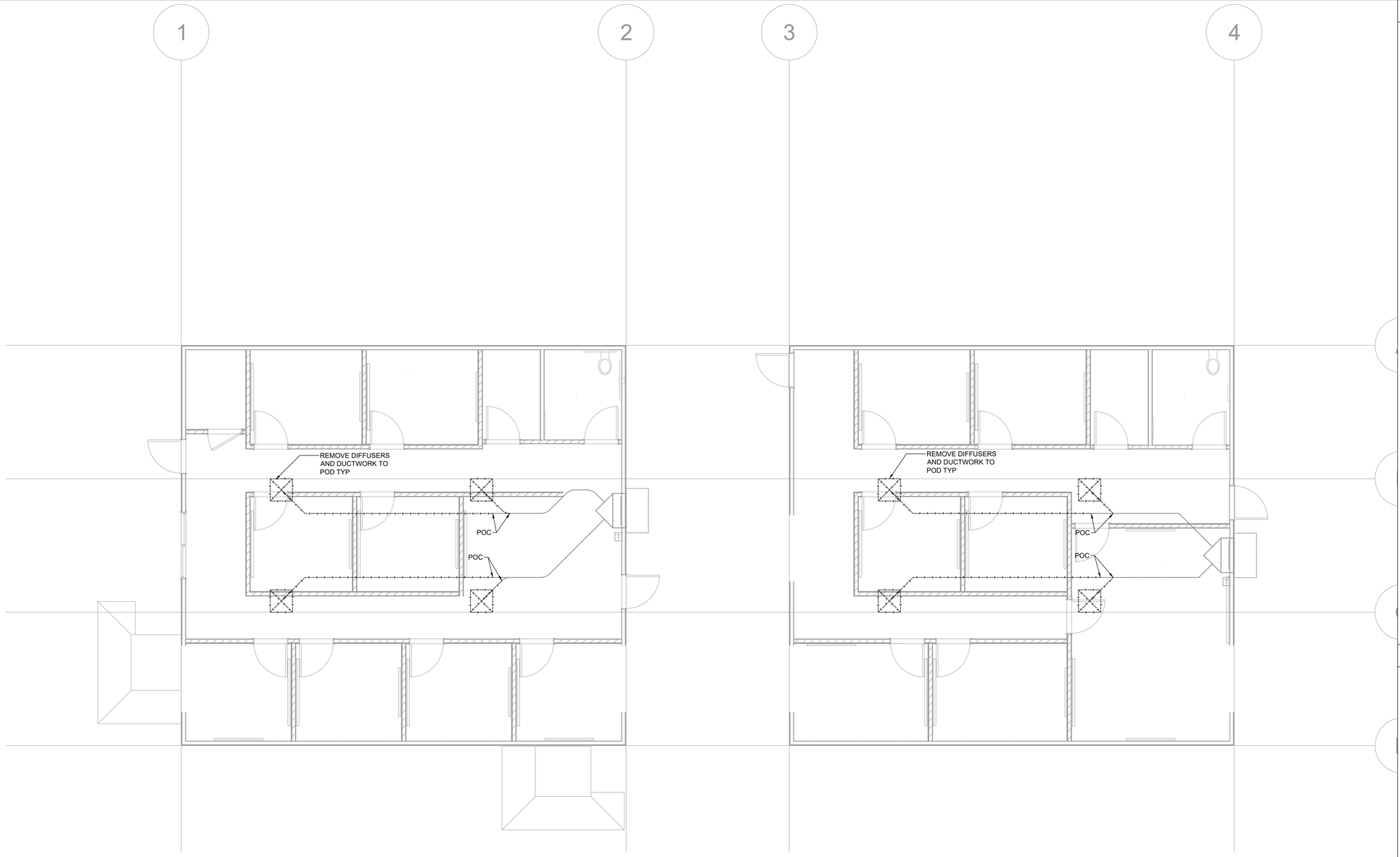
MECHANICAL LEGENDS AND NOTES

SHEET NUMBER

M0.01

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040



1 MECHANICAL DEMO PLAN
Scale: 1/4" = 1'-0"

KEY NOTES

SHEET NOTES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

HM MECHANICAL GROUP
8317 Enrhart Rd, Suite 230
Oakland, CA 94621
Tel: 510-569-2000

REGISTERED PROFESSIONAL ENGINEER JOHN CHOU No. 105414 MECHANICAL STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

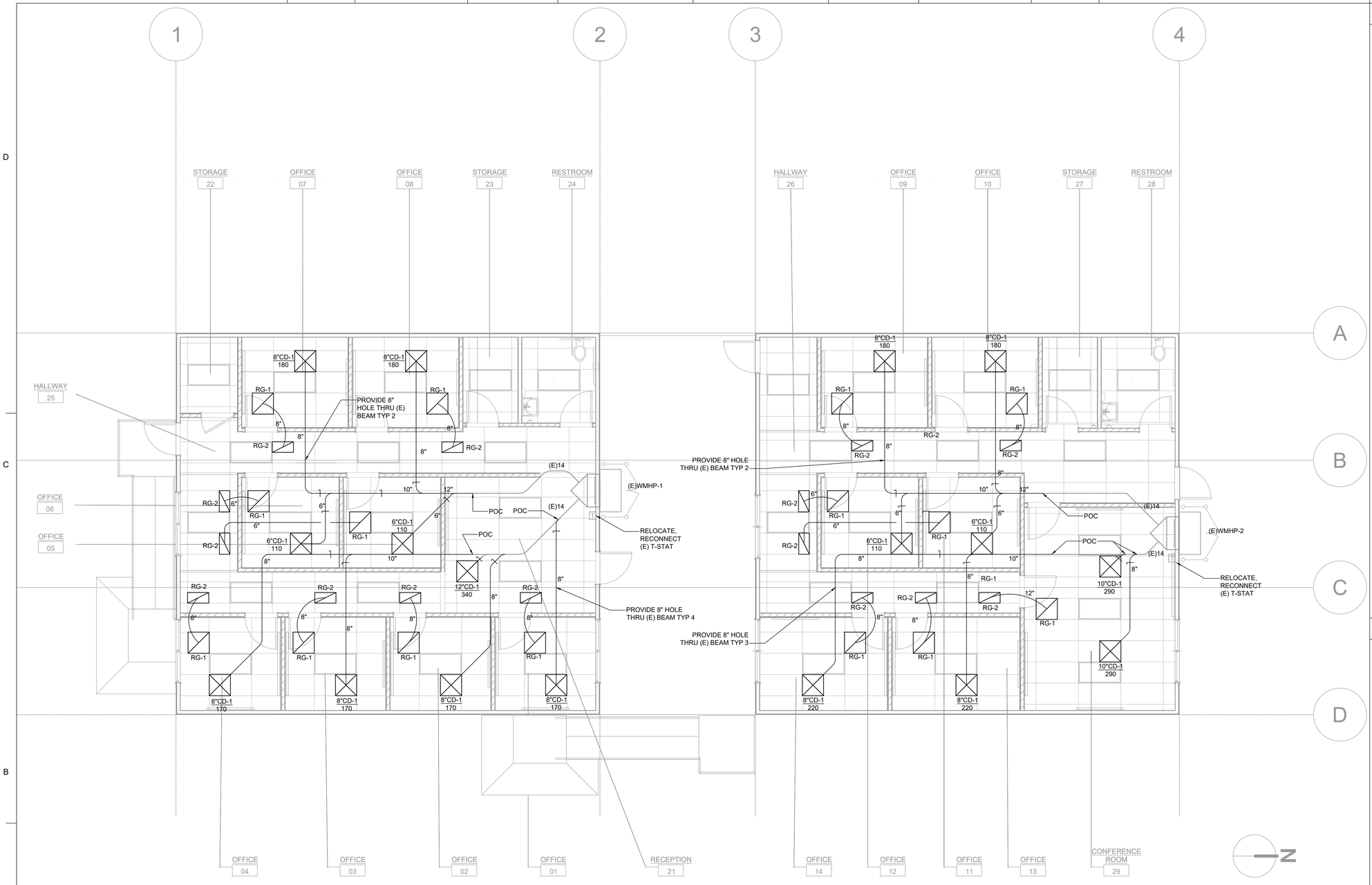
MECHANICAL DEMO PLAN

SHEET NUMBER

M2.01

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040



1 MECHANICAL FLOOR PLAN
Scale: 1/4" = 1'-0"

KEY NOTES

SHEET NOTES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

MECHANICAL GROUP
8317 Earhart Rd, Suite 230
Oakland, CA 94621
Tel: 510-569-2000

REGISTERED PROFESSIONAL ENGINEER JOHN CHOU No. 105214 MECHANICAL STATE OF CALIFORNIA

Consultant

NO.	ISSUED FOR:	DATE
1	BUILDING LAYOUT	3/3/2022
2	DSA REVIEW	11/29/22
3	RE: BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

MECHANICAL FLOOR PLAN

SHEET NUMBER

M2.02

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040

GENERAL NOTES

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.

2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.

3. THIS CONTRACTOR SHALL INCLUDE ALL CONTINGENCIES WHICH MAY ARISE AND WHICH MAY BE REQUIRED BY ALTERATION AND DEMOLITION WORK. THIS IS TO INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF ELECTRICAL OUTLETS, CONDUITS, WIRING AND ITEMS FOR ELECTRICAL EQUIPMENT REQUIRED AND ANY NECESSARY SPLICING OR EXTENSION OF EXISTING CONDUIT AND WIRING SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND DETERMINE EXTENT OF THE WORK.

4. FIELD VERIFY TO CONFIRM ALL FIRE RESISTIVE CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RESISTIVE FLOORS, WALLS AND CEILINGS.

5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.

6. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

7. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.

8. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT CONSTRUCTION COORDINATOR. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.

10. ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED IN FINISHED AREA, UNLESS OTHERWISE NOTED. CUT AND PATCH (E) WALL OR CEILING AS REQUIRED. SURFACE TYPE RACEWAY MAY BE PROVIDE IN LIEU OF CONCEALED CONDUITS. SEE NOTES 34, 35 AND 36 FOR REQUIREMENTS.

11. ALL PENETRATIONS THROUGH FIRE RESISTIVE WALLS SHALL BE TOTALLY SEALED TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GASES, AND WATER THROUGH THE PENETRATION BEFORE, DURING AND AFTER A FIRE CONDITION. THE FIRE RATING OF THE SEALED PENETRATION SHALL BE AT LEAST THAT OF THE WALL INTO WHICH IT IS INSTALLED. THE SEAL SHALL PERMIT THE VIBRATION, EXPANSION AND/OR CONTRACTION OF THE CONDUIT PASSING THROUGH THE PENETRATION WITHOUT THE SEAL CRACKING OR CRUMBLING.

20. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONL.Y.

21. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".

22. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.

23. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.

24. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.

25. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CBC REQUIREMENTS.

26. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. THE DRAWINGS SHOWING LOCATION OF EQUIPMENT IN EXISTING AREAS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONCEAL ALL WORK; IF THIS NOT POSSIBLE, SURFACE RACEWAY SUCH AS WIREMOLD SHALL BE USED ONLY WITH THE APPROVAL OF THE ARCHITECT AND OWNER.

27. THE CONTRACTOR SHALL BE CURRENT SIGNATORY TO IBEW.
THE CONTRACTOR SHALL EMPLOY QUALIFIED, LICENSED IN STATE OF CALIFORNIA AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR OWNER AND IOR.

28. WHERE CONDUIT IS ROUTED ON ROOF STRUCTURES, PROVIDE SUPPORT AT 10'-0" O.C. MAXIMUM.

29. ALL EXPOSED CONDUIT BELOW 7'-0" SHALL BE RSC AND ALL EXPOSED HARDWARE SHALL BE "HOT DIPPED" GALVANIZED. ALL INTERIOR CONDUITS MAY BE EMT, UNLESS OTHERWISE NOTED.

30. OUTLETS MOUNTED ON WALL BACK TO BACK SHALL MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 24" OR BE SEPARATED BY A STUD AND SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS ON FIRE RATING(S) AND MAY REQUIRE ADDITIONAL MEASURES, INCLUDING PUDDY PACKS OR EQUIVALENT AT DEVICES, FITTINGS OR JUNCTION BOXES, ETC, PER IOR AND/OR ARCHITECT AND HAVE FINAL DECISION.

31. WHERE SURFACE WIRING IS CALLED FOR IN A FINISHED AREA, SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED COMPLETE WITH ALL PROPER FITTINGS, ADAPTERS, OUTLETS, DEVICES COVERS, END CAPS, ETC. AS MANUFACTURED BY PANDUIT OR AN APPROVED EQUAL AND SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING. ALL EXPOSED CONDUITS, BOXES AND CABINETS SHALL ALSO BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.

32. SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES TO BUILDING LINES AND ROUTE AROUND SURFACE MOUNTED ITEMS, SUCH AS TACK BOARDS, ETC.

33. GENERALLY, HORIZONTAL RUNS SHALL BE INSTALLED ON THE CORNER BELOW CEILING LINE AS APPROVED BY THE ENGINEER.

34. ALL UNDERGROUND CONDUIT SHALL HAVE #12 TRACER WIRE WITH THWN INSULATION UNDER EACH RUN OF THE UNDERGROUND CONDUIT DUCTBAMK AND 6" FOIL MARKER IN TRENCH. TRACE WIRE SHALL EXTEND AT TERMINATION POINTS A MIN. OF 3 FT FROM SUCH SURFACE AND SHALL BE TRAPPED SECURED TO CONDUIT OR ACCEPTABLE EQUIVALENT.

35. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. SEE IR 16-9 FOR ADDITIONAL REQUIREMENTS FOR PENDANT MOUNTED FIXTURE.
IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, I.E., AIRCRAFT CABLES TO WALL, THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
IF THE PENDANT MOUNTED LIGHT FIXTURE IS NOT DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, THEN A BRACING ASSEMBLY, PER FIGURE 1 OF DSA IR 25-2-13, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT THE HORIZONTAL FORCE. EXCEPTION: WHERE THE WEIGHT OF THE FIXTURE IS LESS THAN 20 POUNDS, THE COMPRESSION POST SHOWN IN FIGURE 1 OF DSA IR 25-2-13, IS NOT REQUIRED.

36. RIGID CONDUIT SHALL NOT BE USED FOR ATTACHMENT OF THE FIXTURES.

37. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST IN THE PRESENCE OF DSA IOR TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED TEST RESULTS SHALL BE SENT TO DISTRICT FOR IOR AND AOR. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.

38. RECEPTACLES VERTICALLY INSTALLED SHALL HAVE THE "U" GROUND UP AND HORIZONTALLY INSTALLED SHALL HAVE THE NEUTRAL ON TOP.

39. ALL WIRES SHALL BE IN CONDUIT.

GENERAL NOTES (CONTINUATION)

40. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

41. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

42. LIGHT FIXTURES WEIGHING GREATER THAN 10 LB, BUT LESS THAN OR EQUAL TO 56 LBS, MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.

43. LIGHT FIXTURES WEIGHING GREATER THAN 56 LB SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAUGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAUGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

44. ALL FOUR FOOT x FOUR FOOT LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER UNLESS SUPPORTED PER SECTION 7.2.4. OF DSA IR 25-2-13.

45. SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

ABBREVIATIONS

A AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS POINT
BRKR	BREAKER
C	CONDUIT, CLOCK
CATV	CABLE TELEVISION
CBC	CALIFORNIA BUILDING CODE
CCTV	CLOSED CIRCUIT TELEVISION
CEC	CALIFORNIA ELECTRIC CODE
CKT	CIRCUIT
CO	CONDUIT ONLY WITH PULL ROPE
CPS	CURRICULUM AND PRESENTATION SYSTEM
CSC	CLOCK/SPEAKER CABINET
(E)	EXISTING
FU	FUSE
(G)	GROUND, GUARD
IDF	INTERMEDIATE DISTRIBUTION FRAME
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
MPOE	MAIN POINT OF ENTRY
MSTC	MAIN SIGNAL TELEPHONE CABINET
MTB	MAIN TELEPHONE BOARD
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT
NTS	NOT TO SCALE
O.C.	ON CENTER
PA	PUBLIC ADDRESS
PH, ø	PHASE
PNL	PANEL
(R)	RELOCATED
RECEPT.	RECEPTACLE
SAD	SEE ARCHITECTURAL DRAWINGS
STC	SATELLITE TERMINAL CABINET
TRANSF.	TRANSFORMER
TB	TELEPHONE BOARD
TC	TERMINAL CAN
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

LEGEND

- HOMERUN TO PANEL, HASHMARKS INDICATE NUMBER OF #12 AWG WIRES IF MORE THAN (3); (T) INDICATES GROUND.
- CONDUIT AND CONDUCTORS CONCEALS IN WALL OR CEILING
- CONDUIT AND WIRES CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION, CAP AND MARK LOCATION
- CONDUIT RISER
- SURFACE MOUNTED ELECTRICAL PANELBOARD, 277/480V
- SURFACE MOUNTED ELECTRICAL PANELBOARD, 120/208V
- RECESSED MOUNTED ELECTRICAL PANELBOARD, 120/208V
- HASHMARK INDICATES EXISTING ELECTRICAL ITEM TO BE DISCONNECTED AND REMOVED INCLUDING WIRES AND CONDUIT UP TO THE NEXT JUNCTION BOX WHICH IS TO REMAIN.
- 2'x4' RECESS LED LIGHT FIXTURE
- OCCUPANCY SENSOR WALL SWITCH
- CEILING OCCUPANCY SENSOR
- POWER PACK
- $D DIMMING SWITCH
- $T HORSEPOWER RATED MANUAL SWITCH, SQUARE "D" CLASS 2510
- 2P$T HORSEPOWER RATED MANUAL SWITCH, SQUARE "D" CLASS 2510, 2P, 208V
- 3P$T HORSEPOWER RATED MANUAL SWITCH, SQUARE "D" CLASS 2510, 3P, 208V
- PULLBOX, SIZE AS SHOWN ON THE DRAWING
- J JUNCTION BOX OR PULL BOX, SIZE PER CODE.
- $ LIGHT SWITCH, MOUNTED +48" AFF TO TOP OF BOX, NO OBSTRUCTION
- A LIGHT FIXTURE IDENTIFICATION TAG, IN THIS CASE TYPE "A" LIGHT FIXTURE
- 1 SHEET NOTE REFERENCE, SEE NOTE 1
- 1 / E3.0 DETAIL TAG. REFER TO DETAIL 1 ON SHEET NUMBER E3.0
- WALL MOUNTED DATA OUTLET; +18" AFF, U.O.N.
- CEILING MOUNTED WIRELESS ACCESS POINT
- FOUR-PLEX RECEPTACLE; +18" AFF, U.O.N.
- DOUPLEX RECEPTACLE; +18"AFF, U.O.N.
- DOOR CONTACT

DRAWING INDEX

LIST OF APPLICABLE CODES

1. 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2. 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)
3. 2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2019 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2019 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
8. 2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
9. 2019 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)
10. NFPA 13, 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
11. NFPA 14, 2013 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
12. NFPA 24, 2016 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
13. NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

MEP COMPONENT ANCHORAGE NOTES

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 DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCED AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, REMOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS IS REQUIRED TO BE RESTRANED IN A MANER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING 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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER) 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 THE BRACE LOADS.

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

MP☐ MD☐ PP☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS AND PROJECT SPECIFIC NOTES AND DETAILS

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#);
#_____

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. IRGIN
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.aec-engineers.com

PROJECT NO. 115-22-01

Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

ELECTRICAL COVER SHEET

SHEET NUMBER

E0.01

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	PITTSBURG ILC	Report Page: (Page 1 of 5)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems In these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2F for alterations..

A. GENERAL INFORMATION

01			02			
Project Location (city)	PITTSBURG		Occupancy Types Within Project:			
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☐ School	☐ Support Areas	
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare Facilities	☒ Other (write in)	See Table I	

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01		02	03	04	05
Electrical Service Designation/Description		Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
		New electrical service equipment and meter	0	☐	☐
06	Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.2 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.			

[1]FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
[2] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04		05
Service Electrical Metering §130.5(a) (See Table F)	AND	Separation for Monitoring §130.5(b) (See Table G)	AND	Voltage Drop §130.5(c) (See Table H)	AND	Controlled Receptacles §130.5(d) (See Table I)		COMPLIES
Yes	AND	Yes	AND	Yes	AND	Yes		COMPLIES

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	PITTSBURG ILC	Report Page: (Page 2 of 5)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)

01	02	03			04	05	
Electrical Service Designation/Description	Rating (kVA)	Required Metering Capabilities per Table 130.5-A			Location of Requirements in Construction Documents	Field Inspector	
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass / Fail
	0	☐	☒	☒	☐	☐	☐

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the service do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail

** NOTES: If "Other"* is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1]FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	PITTSBURG ILC	Report Page: (Page 3 of 5)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2PII

01	02		03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations [1]	Sheet Number for Voltage Drop Calculations In Construction Documents	Field Inspector	
	Voltage drop less than 5%	Permitted by CA Elec Code (Exception to 130.5(c))*			Pass	Fail
	☒	☐	Attached		☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*
[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
					Pass	Fail

** NOTES: If "Other"* is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2013standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	PITTSBURG ILC	Report Page: (Page 4 of 5)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	PITTSBURG ILC	Report Page: (Page 5 of 5)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
KEN NGAI	
Company: Alliance Engineering Consultants, Inc	Signature Date: 2022-04-05
Address: 4701 Patrick Henry Drive	CEA/ HERS Certification Identification (If applicable): 0F6B-1147-585D-8044-0349-F531-A350-A624-11E3-CFB2-46C6-9253
City/State/Zip: Santa Clara CA 95054	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name:	Responsible Designer Signature:
Ken Ngai	
Company: Alliance Engineering Consultants, INC.	Date Signed: 2022-04-05
Address: 4701 Patrick Henry Drive	License: E11537
City/State/Zip: Santa Clara CA 95054	Phone: 408-970-9888

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	PITTSBURG ILC	Report Page: (Page 1 of 7)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01 Project Location (city)	PITTSBURG	04 Total Conditioned Floor Area (ft²)	2,500
02 Climate Zone	4	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
☐ Office ☐ Retail ☐ Warehouse		☐ Hotel/Motel ☒ School ☐ Support Areas	
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable		☐ Healthcare ☐ Other (Write In)	

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work		Conditioned Spaces		Unconditioned Spaces	
01		02	03	04	05
My Project Consists of (check all that apply):		Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒	New Lighting System	Complete Building Method	2500	Complete Building Method	0
☐	New Lighting System - Parking Garage				
Total Area of Work (ft²)		2500		0	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	PITTSBURG ILC	Report Page: (Page 2 of 7)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04	05		06	07		08		09
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)3	Complete Building §140.6(c)1i	Area Category §140.6(c)2	Area Category Additional §140.6(c)2i (+)	Tailored §140.6(c)3 (+)	=	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments		05 must be >= 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned	1,625				=	1,625	1,141.2	0	=	1141.2	≥	COMPLIES
Unconditioned					=				=			
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Changer	Watts per luminaire[1]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
A	31.7W LED Light	No	No	31.7	CEC Default	36	No	1,141.2	☐	☐
						Total Designed Watts: CONDITIONED SPACES		1,141.2		

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	PITTSBURG ILC	Report Page: (Page 3 of 7)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Required > 10,000 SF	Whole Building Other	☐	☐

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	PITTSBURG ILC	Report Page: (Page 4 of 7)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1i	Field Inspector	
								Pass	Fail
Basement	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Level 1	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Level 2	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Level 3	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §140.6(d)2

Plan Sheet Showing Daylit Zones:	13

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used..

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Whole Building	School Building	0.65	2,500	1,625	No	No
		TOTALS:	2,500	1,625	See Tables J, or P for detail	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	PITTSBURG ILC	Report Page: (Page 5 of 7)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	PITTSBURG ILC	Report Page: (Page 6 of 7)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2013standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
●	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	PITTSBURG ILC	Report Page: (Page 7 of 7)
Project Address:	1151 STONEMAN AVE	Date Prepared: 4/5/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
KEN NGAI	
Company: Alliance Engineering Consultants, Inc	Signature Date: 2022-04-05
Address: 4701 Patrick Henry Drive	CEA/ HERS Certification Identification (If applicable): 0F6B-1147-585D-8044-0349-F531-A350-A624-11E3-CFB2-46C6-9253
City/State/Zip: Santa Clara CA 95054	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name:	Responsible Designer Signature:
Ken Ngai	
Company: Alliance Engineering Consultants, INC.	Date Signed: 2022-04-05
Address: 4701 Patrick Henry Drive	License: E11537
City/State/Zip: Santa Clara CA 95054	Phone: 408-970-9888

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
Registration Provider: Energysoft Report Generated: 2022-04-05 15:48:49

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. NGAI
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.aec-engineers.com

PROJECT NO. 115-22-01

Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

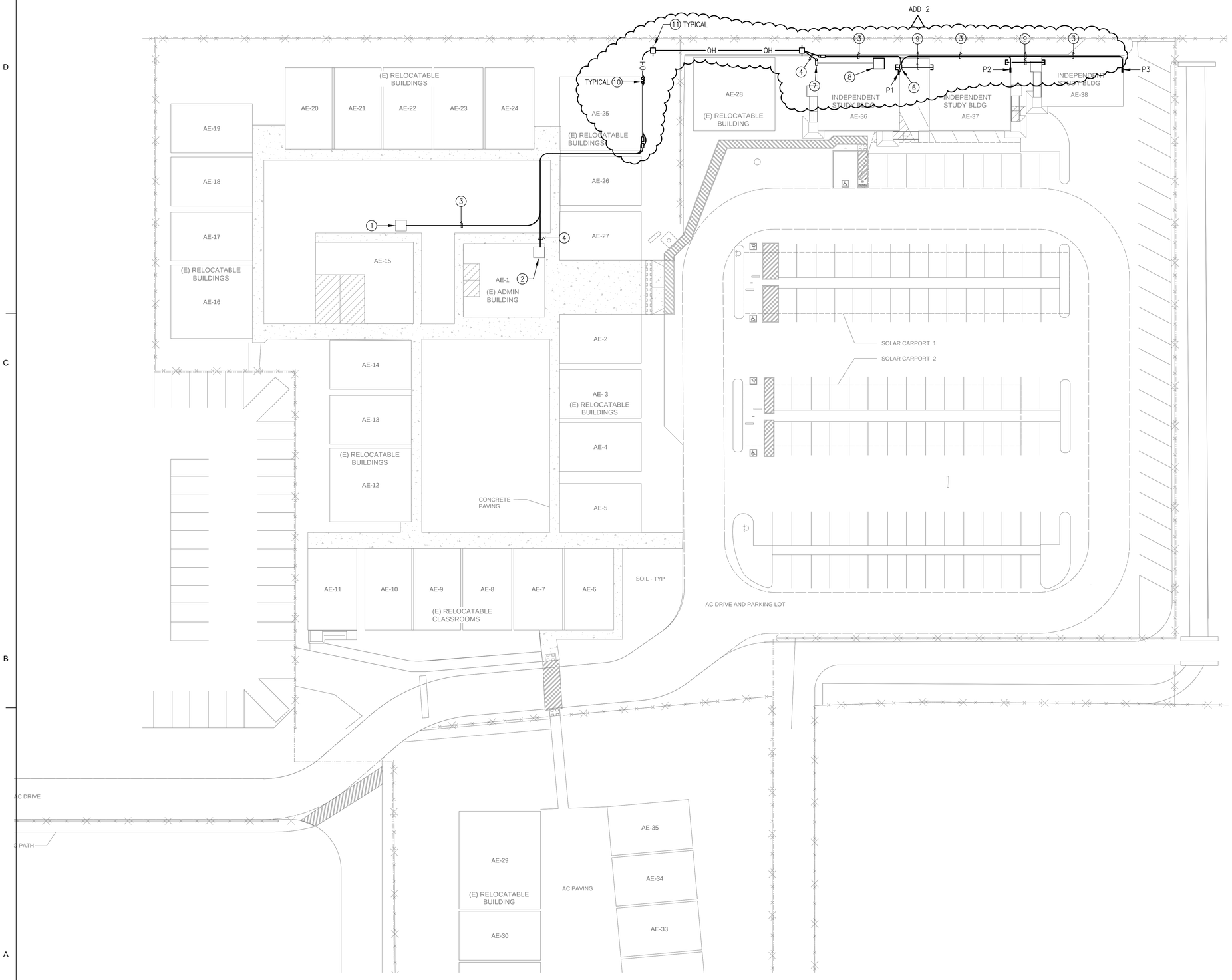
TITLE 24
INTERIOR LIGHTING

SHEET NUMBER

E0.02

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040



1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

0 5 10 20 40 60

GRAPHIC SCALE IN FEET

KEY NOTES

1. (E) MSB, 1200A, 120/208V, 3ø, 4W.
2. (E) MDF AND INTRUSION ALARM PANEL.
3. 2"C (POWER) SURFACE MOUNTED ON WALL +8' AFG. ADD 2
4. 2"C (DATA AND INTRUSION) ADD 2
5. (2) N16 BOX WITH EXTENSION. ONE BOX COVER ENGRAVED WITH "POWER" THE OTHER ENGRAVED WITH "LOW VOLTAGE".
6. DP-1. SEE SINGLE LINE DIAGRAM ON E3.00.
7. 18"x18"x6"D NEMA 3R BOX AT 8'-0" ABOVE FINISHED GRADE.
8. IDF-1. SEE E3.00 FOR REQUIREMENTS.
9. POWER CONDUITS PER SINGLE LINE DIAGRAM AND (1) 2"C LOW VOLTAGE BETWEEN BUILDING. PROVIDE UNISTRUT CONDUIT SUPPORT WITH 2' LONG LIQUID TIGHT CONDUIT TRANSITION FOR SEISMIC.
10. RISER AND WEATHERHEAD. SEE DETAIL ON E3.00.
11. WOOD POLE FOR OVERHEAD WIRING. SEE DETAIL ON E3.00.

ADD 2

SHEET NOTES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. NGAI
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.oec-engineers.com

PROJECT NO. 115-22-01
Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	ADDENDUM #2	1/17/2023
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

E1.00

CAD FILE: Untitled 4

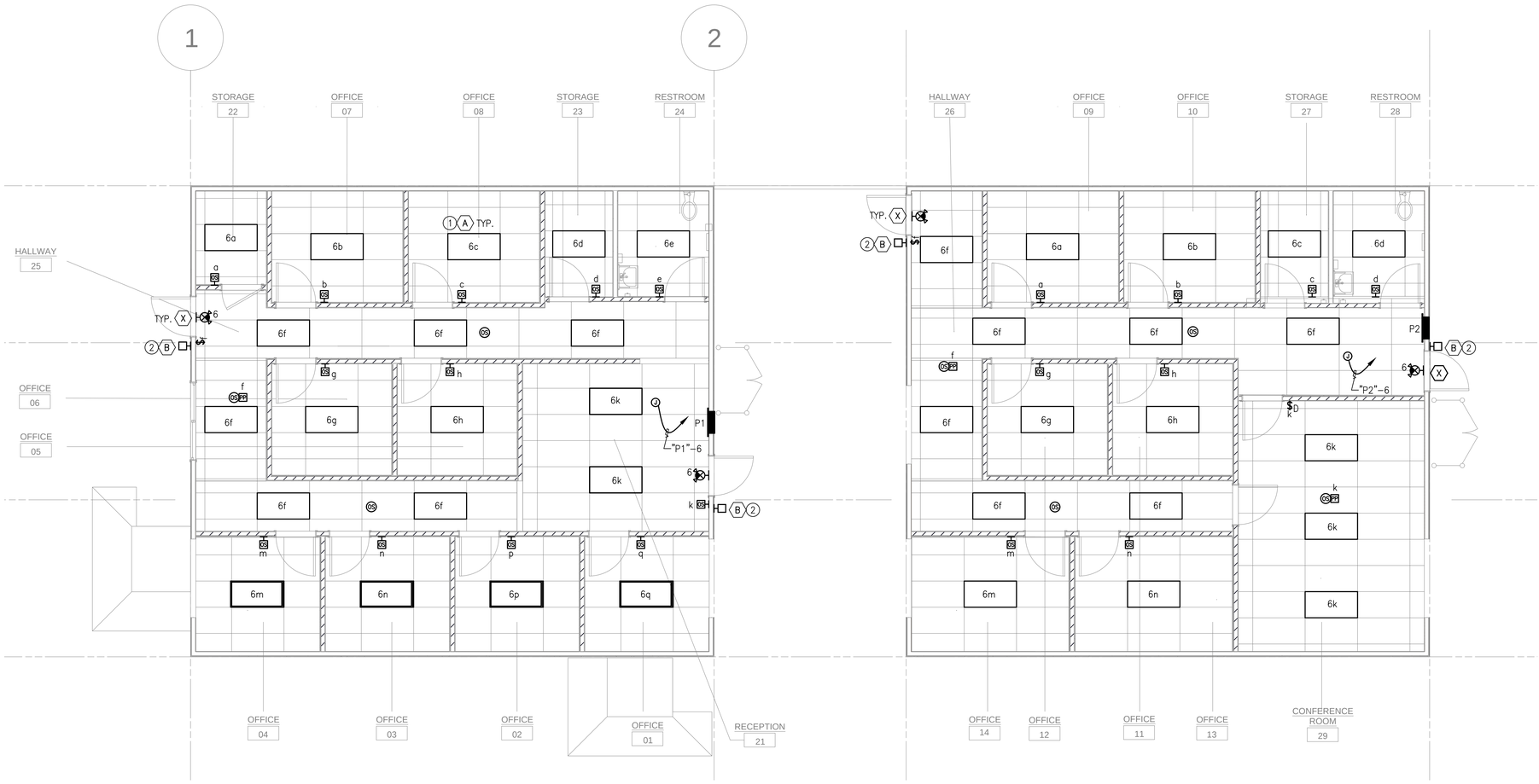
DATE	PROJECT NO.
2/23/2022	2022.040

NOT FOR CONSTRUCTION - 9/30/17 ***FOR REVIEW - NOT FOR CONSTRUCTION***

KEY NOTES

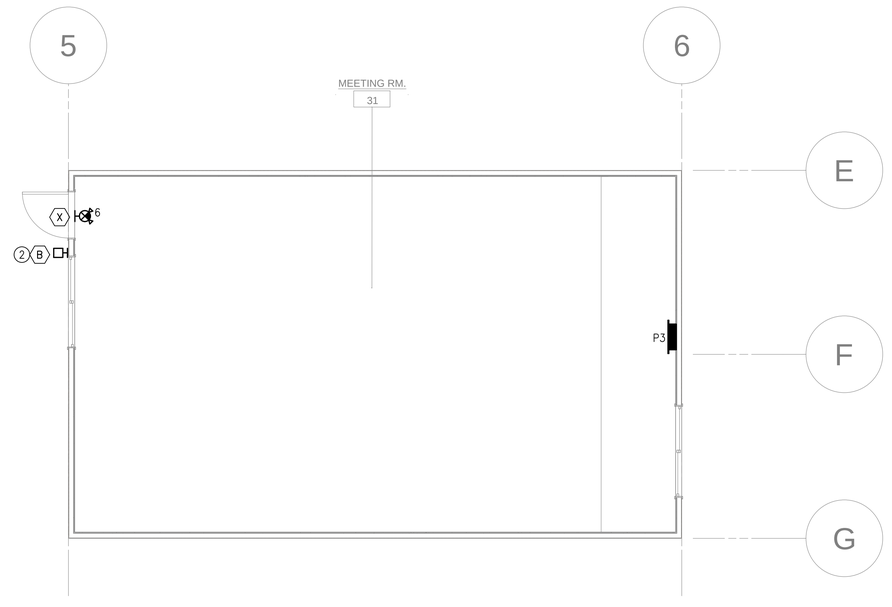
SHEET NOTES:

1. RECESS LED LIGHT FIXTURE SIMILAR TO LITHONIA CATALOG #2BLT4-40L-ADP-120-LP835.
2. WALL MOUNTED EGRESS LIGHT WITH EMERGENCY BATTERY BACKUP SIMILAR TO LITHONIA CATALOG #WDGE3LED P2 30K 80CRI VW MVOLT SRM E4WH DDBX. PROVIDE PHOTOELECTRIC CONTROL AND CONNECT TO CIRCUIT 6.



1 LIGHTING PLAN
SCALE: 1/4" = 1'-0" PORT. AE-36

2 LIGHTING PLAN
SCALE: 1/4" = 1'-0" PORT. AE-37



3 LIGHTING PLAN
SCALE: 1/4" = 1'-0" PORT. AE-38

GRAPHIC SCALE IN FEET 0 2 4 8 12

NOT FOR CONSTRUCTION - 9/30/17 ***FOR REVIEW - NOT FOR CONSTRUCTION***

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. IKGN
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.aec-engineers.com
PROJECT NO. 115-22-01
Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

LIGHTING PLAN

SHEET NUMBER

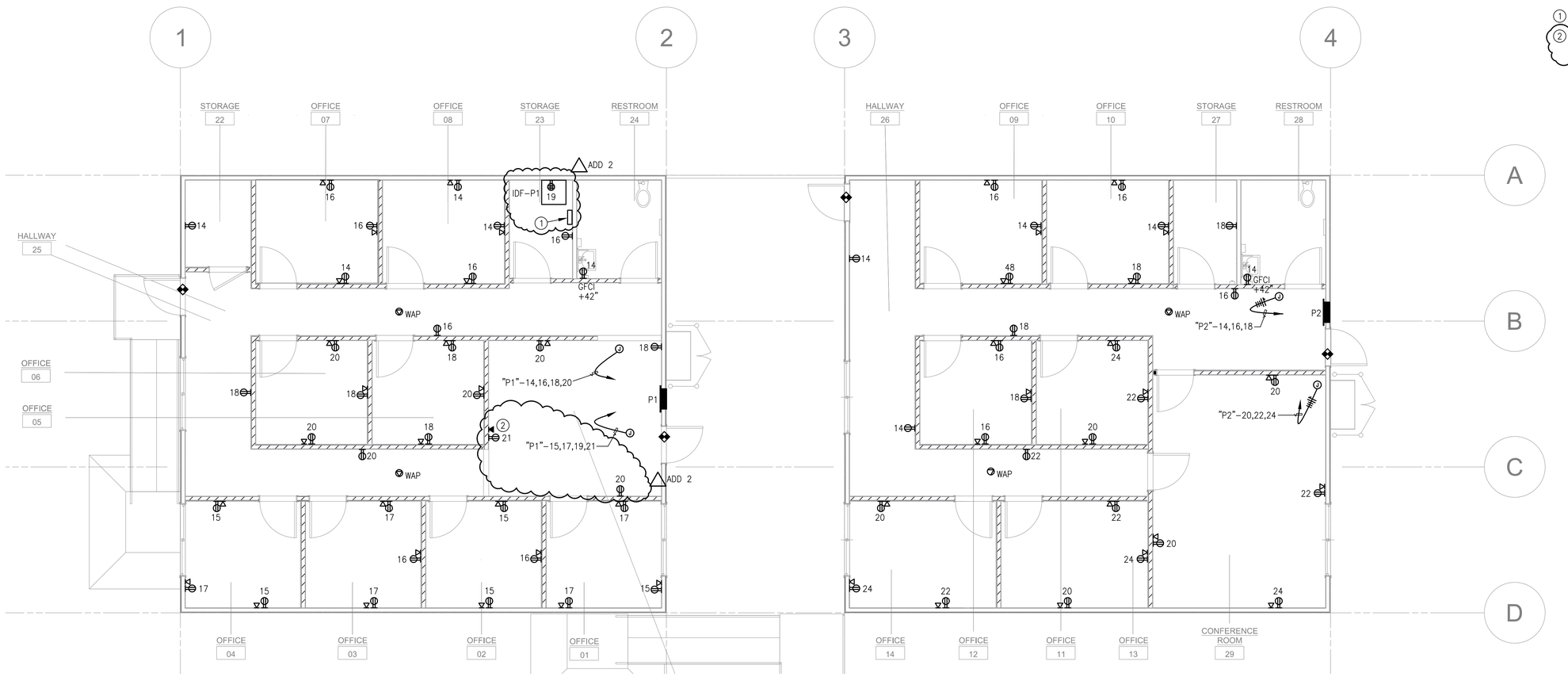
E2.00

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040

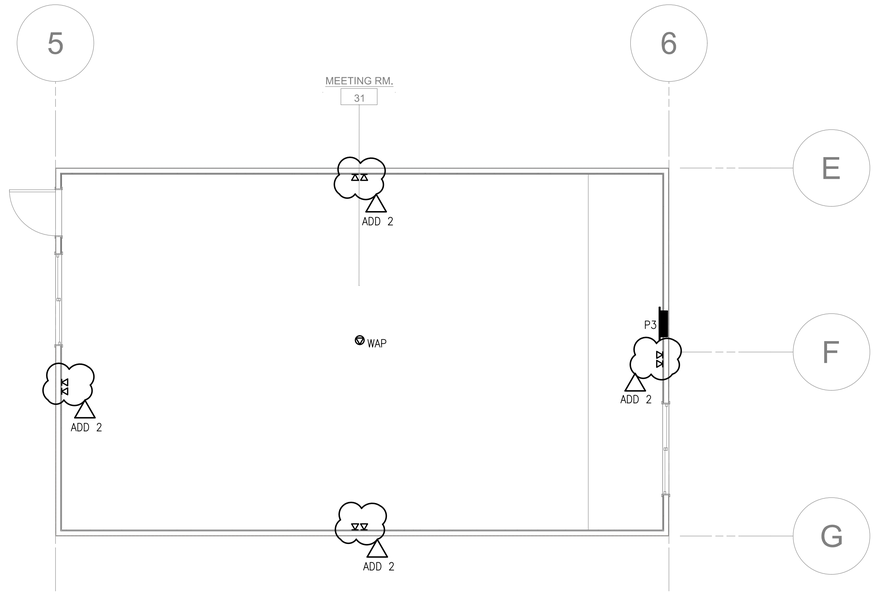
SHEET NOTES:

1. INTRUSION ALARM KEY PLAN.
2. ANALOG PHONE LINE FOR FAX CAT6 OSP MPOE & DEDICATED POWER OUTLET FOR COPIER.



1 POWER AND LOW VOLTAGE PLAN

SCALE: 1/4" = 1'-0" PORT. AE-36, AE-37



2 POWER AND LOW VOLTAGE PLAN

SCALE: 1/4" = 1'-0" PORT. AE-38

GRAPHIC SCALE IN FEET 0 2 4 8 12

NOT FOR CONSTRUCTION - 9/30/17 ***FOR REVIEW - NOT FOR CONSTRUCTION***

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. NGAI
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.aec-engineers.com

PROJECT NO. 115-22-01

Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	ADDENDUM #2	1/17/2023
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

POWER AND LOW VOLTAGE PLAN

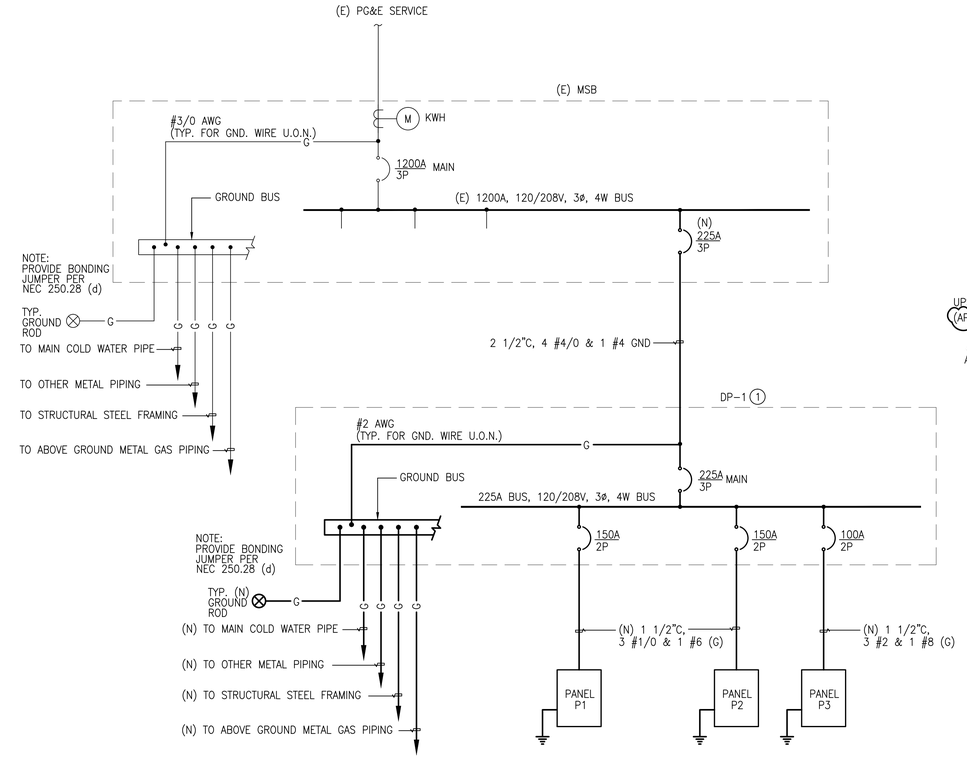
SHEET NUMBER

E2.01

CAD FILE: Untitled 4

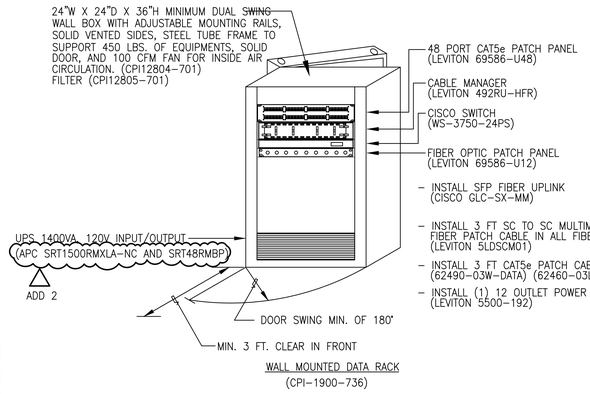
DATE 2/23/2022

PROJECT NO. 2022.040



1 SINGLE LINE DIAGRAM

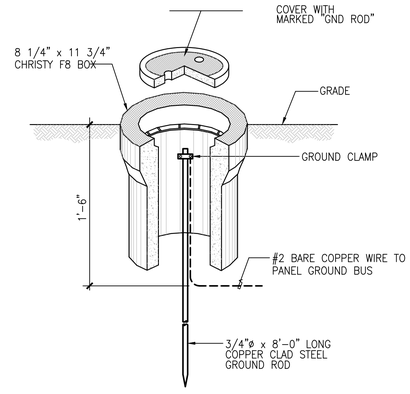
NOT TO SCALE

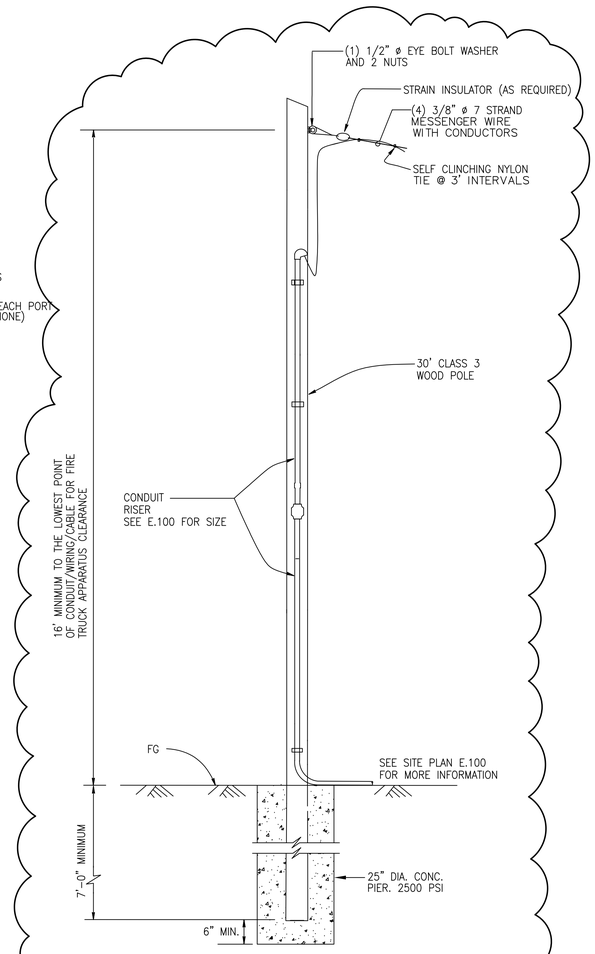


ADD 2

2 IDF-P1 EQUIPMENT RACKS ELAVATION

NOT TO SCALE

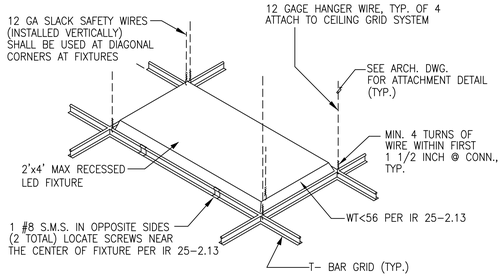




6 WOOD POLE SUPPORT DETAIL

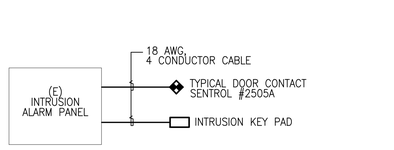
NOT TO SCALE

ADD 2



8 TYPICAL SUPPORT REQUIREMENTS FOR RECESSED LIGHT FIXTURES

NOT TO SCALE

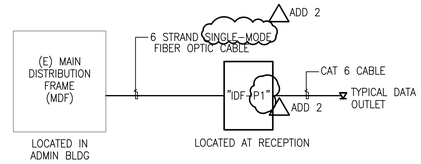


3 INTRUSION ALARM RISER DIAGRAM

NOT TO SCALE

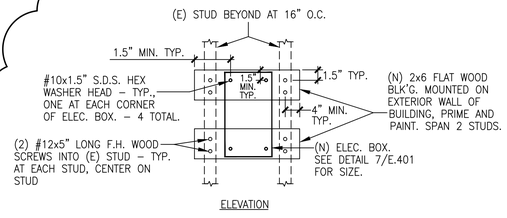
4 GROUNDING ELECTRODE INSTALLATION DETAIL

NOT TO SCALE



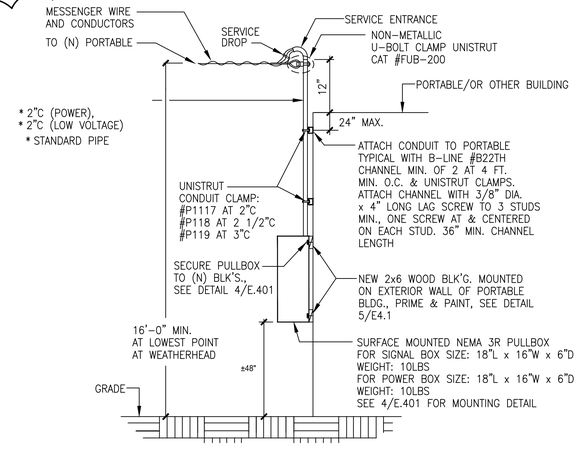
5 DATA SYSTEM RISER DIAGRAM

NOT TO SCALE



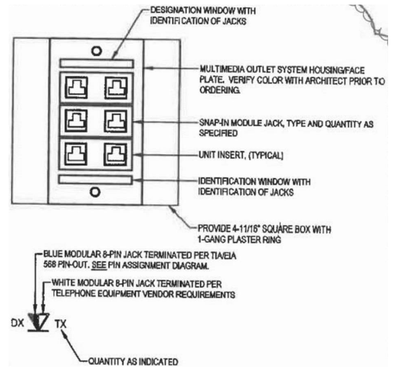
7 ELEC. BOX ATTACHMENT DETAIL

NOT TO SCALE



8 SERVICE DROP DETAIL

NOT TO SCALE



9 VOICE/DATA RECEPTACLE CONFIGURATION

NOT TO SCALE

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. NGAI
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.aec-engineers.com

PROJECT NO. 115-22-01

Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	ADDENDUM #2	1/17/2023
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

SINGLE LINE DIAGRAM AND DETAILS

SHEET NUMBER

E3.00

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040

GENERAL NOTES

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.

2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.

3. FIELD VERIFY TO CONFIRM ALL FIRE RATED CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS.

4. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.

5. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

6. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.

7. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED BY HIM. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL ALL COSTS RELATED TO THE DISPOSAL OF EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT.

8. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT CONSTRUCTION COORDINATOR. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.

9. DEMOLITION WORK SHALL BE PROVIDED AS REQUIRED TO ACCOMPLISHED NEW WORK CALLED FOR AND AS NOTED. WORK SHALL BE PERFORMED CAREFULLY TO AVOID DAMAGE TO SURFACES, STRUCTURES, AND EQUIPMENT NOT BEING REMOVED. EXISTING EQUIPMENT AND/OR ELECTRICAL WIRING WHICH IS TO REMAIN, BUT HAS BEEN REMOVED TO FACILITATE THE INSTALLATION OF THE NEW EQUIPMENT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION.

10. BLANK COVERS SHALL BE INSTALLED WHEREVER DEVICE IS REMOVED AND OUTLET BOX REMAINS IN PLACE.

11. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONL.Y.

12. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".

13. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.

14. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.

15. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.

16. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A SEISMIC FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

    a. THE TOTAL DESIGN LATERAL SEISMIC FORCE SHALL BE DETERMINED FROM SECTION 1632A.2 CALIFORNIA BUILDING CODE (CBC) 2001. FORCES SHALL BE APPLIED IN THE HORIZONTAL DIRECTIONS, WHICH RESULT IN THE MOST CRITICAL LOADING FOR DESIGN.

    b. THE VALUE OF A_p(COMPONENT AMPLIFICATION FACTOR) AND R_p (COMPONENT RESPONSE MODIFICATION FACTOR) OF SECTION 1632A.2 SHALL BE SELECTED FROM TABLE 16A-O, CBC 2001. THE VALUE OF I_p (SEISMIC IMPORTANCE FACTOR) AND C_a (SEISMIC COEFFICIENT) SHALL BE SELECTED FROM TABLE 16A-K AND 16A-Q, CBC 2001, RESPECTIVELY.

    WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

17. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. THE DRAWINGS SHOWING LOCATION OF EQUIPMENT IN EXISTING AREAS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONCEAL ALL WORK; IF THIS NOT POSSIBLE, SURFACE RACEWAY SUCH AS WIREMOLD SHALL BE USED ONLY WITH THE APPROVAL OF THE ARCHITECT AND OWNER.

18. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.

19. OUTLETS MOUNTED ON WALL BACK TO BACK SHALL MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 24" OR BE SEPARATED BY A STUD.

20. WHERE SURFACE WIRING IS CALLED FOR IN A FINISHED AREA, SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED COMPLETE WITH ALL PROPER FITTINGS, ADAPTERS, OUTLETS, DEVICES COVERS, END CAPS, ETC. AS MANUFACTURED BY WIREMOLD OR AN APPROVED EQUAL AND SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING. ALL EXPOSED CONDUITS, BOXES AND CABINETS SHALL ALSO BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.

21. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.

22. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.

23. PROVIDE ACCESSIBLE PANEL FOR HEAT DETECTOR ABOVE CEILING WHERE REQUIRED.

FIRE ALARM L E G E N D

WIRING

SYMBOL	DESCRIPTION
	WIRING CONCEALED IN CEILING OR WALL. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	WIRING EXPOSED. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	EXISTING WIRING TO BE REMOVED
MV	MEDIUM VOLTAGE CONDUIT
G G	GROUNDING GRID OR CONDUCTORS
LV	LOW VOLTAGE CABLE IN CONDUIT
	STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS IF MORE THAN 3, UON. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING. ALL SHARED NEUTRAL SHALL BE #10 U.O.N.
GROUND / GROUND, ISOLATED	
HOT / NEUTRAL	
L1A–1,3 HD1A	HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
	RACEWAY STUBBED OUT FOR FUTURE CONTINUATION; CAP, MARK AND RECORD LOCATION.
J J J	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
	WIRING EXTENSION POINT – CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILINGS AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED= ON ALT. POWER SOURCE (EMERG,UPS,ETC.)
PB	PULL BOX, MIN. SIZE PER NEC., UON.
	FLEXIBLE CONDUIT CONNECTION
	POWER CONNECTION TO DIV 15 FIRE/SMOKE DAMPER. REFER TO FSD CONNECTION DETAIL IF NOT SHOWN
	LOW VOLTAGE SYSTEM GROUND CONNECTION
	GROUND ROD CONNECTION
	GROUND ROD CONNECTION WITH TEST WELL BOX
	LIGHTNING SYSTEM AIR TERMINAL

APPLICABLE CODES

1. 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2. 2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)
3. 2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2019 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2019 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
8. 2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
9. 2019 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)
10. NFPA 13, 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
11. NFPA 14, 2013 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
12. NFPA 24, 2016 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
13. NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V POWER AS REQUIRED OR AS INDICATED.
F	FIRE ALARM SYSTEM MANUAL PULL STATION, WALL MOUNTED
	STROBE LIGHT, WALL MOUNTED (# = CANDELA RATING)
H	COMBINATION HORN/STROBE, WALL MOUNTED
H WP	WEATHER PROOF HORN , WALL MOUNTED
	SMOKE DETECTOR BELOW PLATFORM
A	HEAT DETECTOR, ABOVE CELING MOUNTED. FIXED AND RATE OF RISE AND RATED AT 190'F, U.O.N.
IM	ADDRESSABLE ISOLATE MODULE
EOL	END OF LINE RESISTOR (NOT SHOWN ON PLANS)
1	KEY NOTE REFERENCE

FIRE ALARM SCOPE OF WORK

THE INTENT OF THIS PROJECT IS TO PROVIDE A COMPLETE FIRE ALARM EVAC SYSTEM FOR INDEPENDENT STUDIES PROGRAM FACILITIES.

FIRE ALARM SYSTEM GENERAL NOTE

THE FIRE DETECTION AND ALARM SYSTEM, UPON ACTIVATION OF AN INITIATING DEVICE, SHALL ALERT ALL OCCUPANTS AND SHALL TRANSMIT THE ALARM SIGNAL TO AN APPROVED SUPERVISING CENTRAL MONITORING STATION IN ACCORDANCE WITH THE REQUIREMENTS OF SENATE BILL No. 575.

SCOPE OF INFRASTRUCTURE WORK

DIVISION 16 CONTRACTOR SHALL PROVIDE ALL CONDUITS, BOXES, AND SUPPORTS FOR WORK SHOWN IN DIVISION 16 AND 17 DOCUMENTS. COORDINATE INFRASTRUCTURE INSTALLATION WITH DIVISION 17 CONTRACTOR AND PROVIDE PULLROPE IN ALL CONDUITS INSTALLED FOR DIVISION 17 WORK.

FIRE ALARM SYSTEM NOTES

1. ALL WIRING SHALL BE IN CONDUIT, U.O.N. MINIMUM CONDUIT SIZE SHALL BE 3/4"C.
2. PROVIDE AND INSTALL ALL CONDUIT, BOXES, CONDUCTORS, POWER SUPPLY, RELAYS, ZONE MODULES, CARDS, SWITCHES ETC. FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
3. ALL REQUIREMENT OF CONTRACT SPECIFICATIONS AND DRAWING APPLY.
4. INSTALLATION SHALL CONFORM TO REQUIREMENTS OF APPLICABLE ELECTRICAL CODES.
5. TEE-TAP INSIDE BUILDING IN JUNCTION BOX. USE TERMINAL BLOCKS.
6. FIRE ALARM FIELD WIRING SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
7. 120VAC 60Hz INPUT POWER FOR FIRE ALARM CONTROLS SHALL BE A DEDICATED, LOCKING BREAKER PROPERLY LABELED "SOURCE FROM LINE OF MAIN DISCONNECT" OR "EMERGENCY POWER".
8. ALL WIRING INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
9. 120VAC IS NOT PERMITTED IN SAME CONDUIT WITH LOW VOLTAGE WIRING.
10. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY-TRAINED FIRE ALARM TECHNICAL REPRESENTATIVE.
11. THERE WILL BE NO CONDUIT ENTRY ALLOWED 18" OR LOWER ON THE SIDE PANELS OR THROUGH THE BOTTOM OF ALL CONTROL EQUIPMENT BACKBOXES.
12. ALL VISUAL ALARM IN EVERY ROOMS OR EXTERIOR WHERE OCCUR SHALL BE SYNCHRONIZED.
13. VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE THAT MEETS NFPA STROBE INTENSITY REQUIREMENTS WHICH VARIES WITH VIEWING CONDITIONS AND ROOM SIZES.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT FITTINGS AND WIRES TO BE APPROVED FOR WET LOCATIONS.
15. AUDIBLE DEVICE(S) TO BE AT LEAST 15dBA ABOVE THE EQUIVALENT SOUND LEVEL BUT NOT LESS THAN 75dBA AT 10' OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE.
16. AUDIBLE DEVICE SHALL SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL.
17. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATA AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
18. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETED AND SIGNED" CERTIFICATE OF COMPLETION" AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (NFPA 72 SEC. 1.6.2.1 & FIG. 1.6.2.1).
19. PROVIDE TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND (CFC SEC. 1007.3.3.3.2, NFPA 72 SEC. 3-7.2)
20. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL" NFPA SEC 1-5.2.8.2.
21. WIRING AND MATERIALS SHALL BE PER CEC/NEC ART. 760.

ABBREVIATIONS

(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE REMOVED
(RL)	EXISTING TO BE RELOCATED
A, AMP	AMPERES
AF	AMPERE (RATED) FUSE OR CB FRAME
AS	AMPERE (RATED) SWITCH
AT	CIRCUIT BRKR TRIP SETTING (AMPS)
AWG	AMERICAN WIRE GAUGE
B	BELL (FIRE ALARM)
EOL	END OF LINE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FSD	FIRE/SMOKE DAMPER
GND	GROUND
K	KEY OPERATED
MAX	MAXIMUM
MIN	MINIMUM
MTD	MOUNTED
MTR	MOTOR
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PNL	PANEL
+,POS	POSITIVE
RSE	REMOTE SIGNAL EXPANDER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF, SEE RECEPT. SYMBOL

FIRE ALARM DRAWING LIST

FIRE ALARM EQUIPMENT LIST

	MANUFACTURER	MODEL	DESCRIPTION	CSFM NUMBER
FACP	FIRE LITE	ES-200X	FIRE ALARM CONTROL PANEL	7165-0075: 0500
ECC	FIRE LITE	ECC-50/100	EMERGENCY COMMEND CENTER	7165-0075: 0266
F	FIRE LITE	BG-12LX	PULL STATION	7150-0075: 0184
	FIRE LITE	SD365	ADDRESSABLE PHOTOELECTRONIC SMOKE DETECTOR	7272-0075: 0502
A	FIRE LITE	H365HT	HEAT DETECTOR,HIGH TEMPERATURE 190F	7272-0075: 0501
IM	FIRE LITE	I300	ISOLATE MODULE	7300-0075: 0159
	WHEELOCK	ST	STROBE LIGHT SET AT 15CD, WALL MOUNT (RED)	7125-0785: 0168
S	WHEELOCK	E70-24MCW-FR	SPEAKER/STROBE LIGHT SET AT 15CD, WALL MOUNT (RED)	7125-0785: 0152
S WP	WHEELOCK	ET-1010	WEATHERPROOF EXTERIOR SPEAKER	7125-0785: 0152
TG-7FS	TELGUARD	TG-7FS LTE-A	CELLULAR ALARM COMMUNICATOR FOR LTE NETWORKS	7300-1402: 0504
	West Penn	990S	Cable, 2 #16 Awg Bare Copper, Unshielded	7161-0859: 0101
	West Penn	994S	Cable, 2 #14 Awg Bare Copper, Unshielded	7161-0859: 0101
	West Penn	226	Cable, 2 #14 Awg Bare Copper, Unshielded	7161-0859: 0101
	West Penn	AQ225	Cable, 2 #16 Awg Bare Copper, Unshielded (Underground)	7161-0859: 0101
	West Penn	AQC226	Cable, 2 #14 Awg Bare Copper, Unshielded (Underground)	7161-0859: 0101
	West Penn	AQC430	Cable, 2 #14 Awg Bare Copper, Unshielded (Underground)	7161-0859: 0101

FIRE ALARM WIRING LEGEND

SYMBOL	WIRE TYPE	USED ON
A	2-CONDUCTOR, #16 AWG SOLID BARE COPPER UNSHIELDED (990S)	ADDRESSABLE ALARM INITIATING DEVICES: – SMOKE & HEAT DETECTORS – INTERFACE MODULES – PULL STATION
B	2-CONDUCTOR, #14 AWG FPL STRANDED (BLACK/RED) (994S)	AUDIO/VISUAL FROM RSB OR FACP INDICATING DEVICES: – (SYNC HORN/STROBE CIRCUITS)
C	2-CONDUCTOR, #14 AWG FPL STRANDED (BLACK/RED) (226)	SPEAKER WIRE FROM AMPLIFIER
AA	2-CONDUCTOR, #16 AWG STRAND BARE COPPER, UNSHIELDED (AQ225)	ADDRESSABLE ALARM INITIATING DEVICES: (UNDERGROUND) – SMOKE & HEAT DETECTORS – INTERFACE MODULES – PULL STATION (UNDERGROUND)
BB	2-CONDUCTOR, #14 AWG FPL STRANDED (AQ226)	AUDIO/VISUAL FROM RSB OR FACP INDICATING DEVICES: – (SYNC HORN/STROBE CIRCUITS) (UNDERGROUND)
CC	2-CONDUCTOR, #14 AWG FPL SOLID (AQC430)	SPEAKER WIRES/ANNUNCIATOR (UNDERGROUND) – OSP
D	6 STRAND FIBER-OPTIC MULTI-MODE	FIRE ALARM FACP NETWORK
	2-CONDUCTOR, #12 AWG THHN SOLID (GROUNDED WIRE)	120 VAC POWER WIRING TO: – F.A. CONTROL PANEL – POWER SUPPLY PANEL

NOTE: ALL EXTERIOR CABLE SHALL BE WET RATE

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. IRGN
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.aec-engineers.com

PROJECT NO. 115-22-01

Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

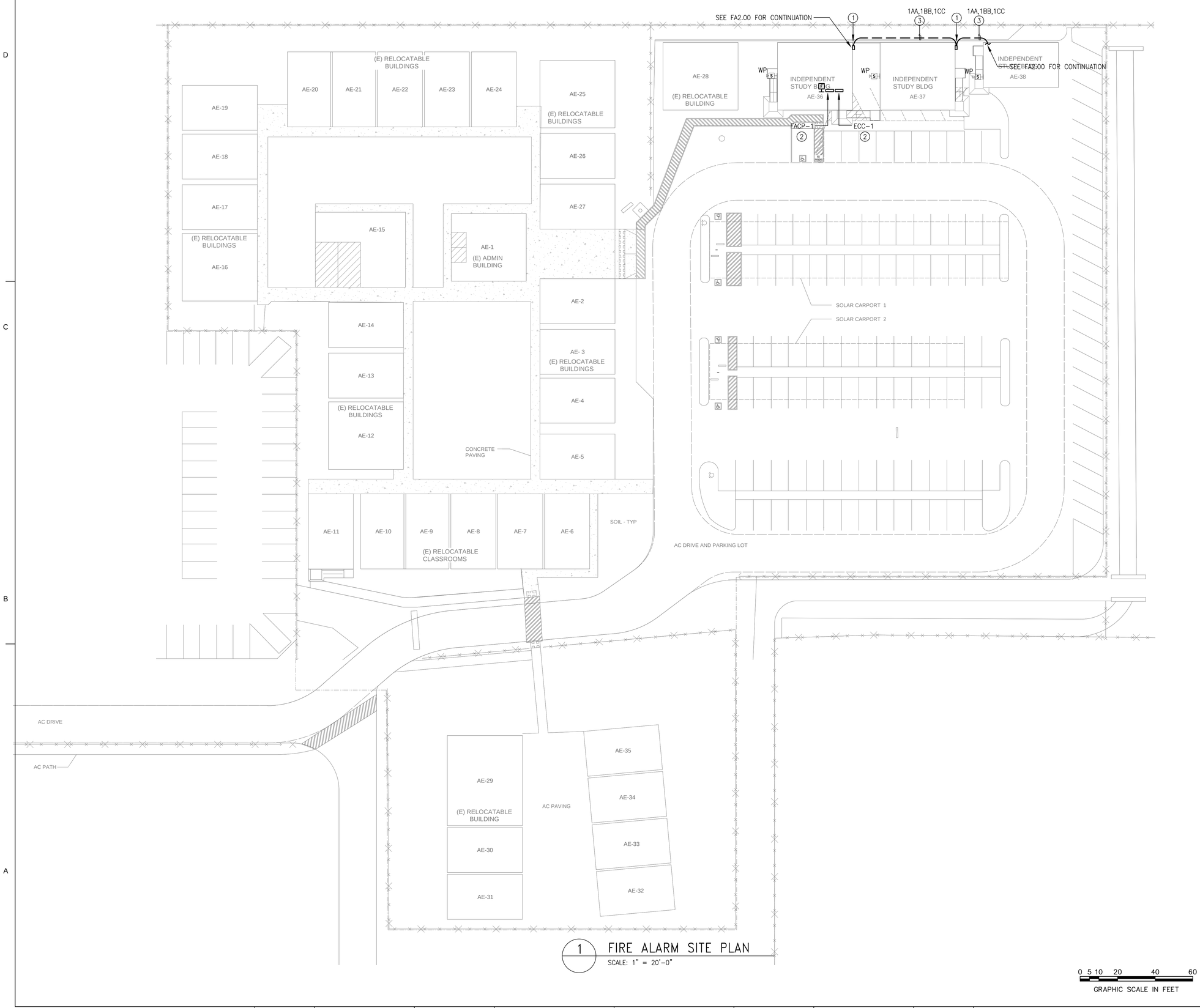
FIRE ALARM COVER SHEET

SHEET NUMBER

FA0.01

CAD FILE: Untitled 4

DATE 2/23/2022 | PROJECT NO. 2022.040



1 FIRE ALARM SITE PLAN
SCALE: 1" = 20'-0"

0 5 10 20 40 60
GRAPHIC SCALE IN FEET

KEY NOTES

1. 10"X8"X6" NEMA 3R PULL BOX AND SECURE ON THE EXTERIOR ALL OF THE BUILDING. FIELD VERIFY EXACT MOUNTING HEIGHT.
2. SEE FA2.00 FOR FACP-1/ECC-1 LOCATION.
3. 1"C (FIRE ALARM)

SHEET NOTES

LEGEND

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. MUN
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.aec-engineers.com

PROJECT NO. 115-22-01
Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

FIRE ALARM SITE PLAN

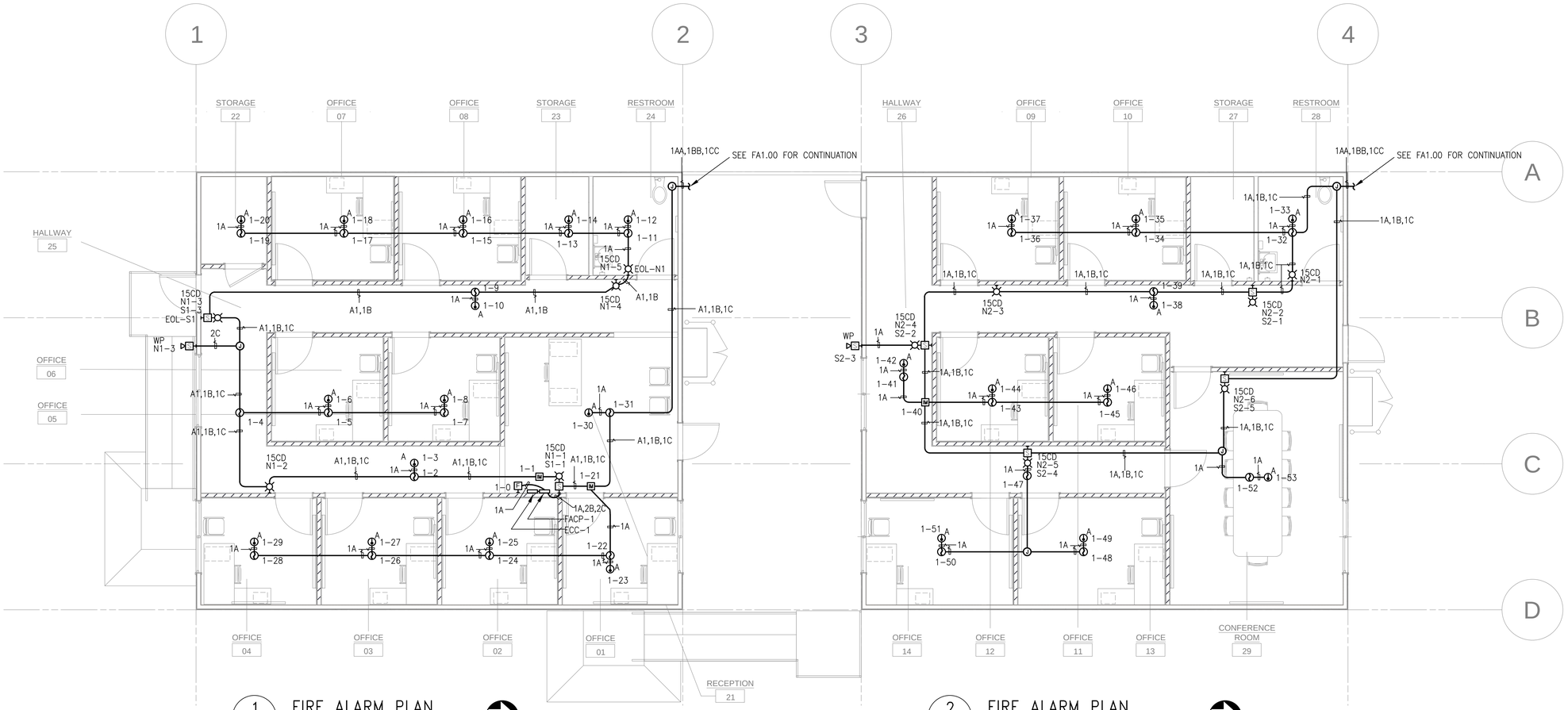
SHEET NUMBER

FA1.00

CAD FILE: Untitled 4

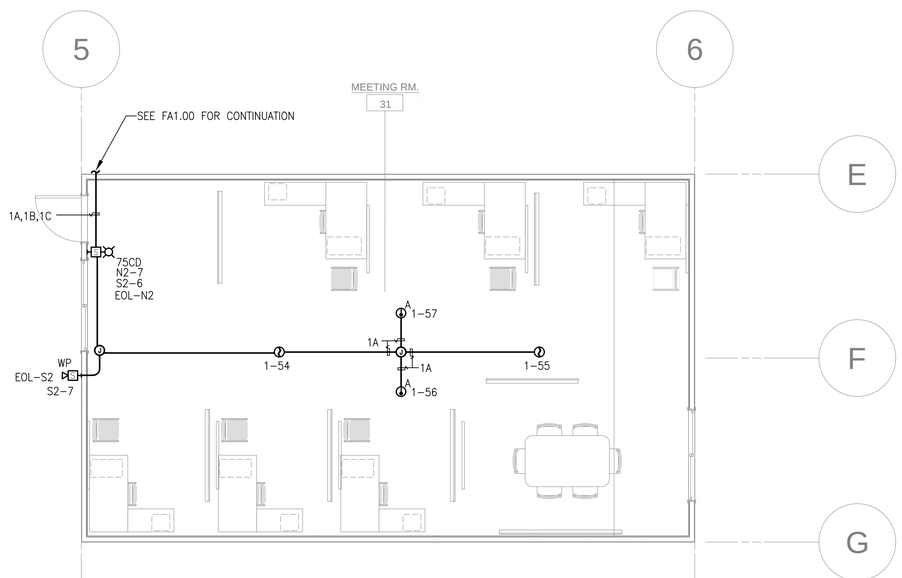
DATE	PROJECT NO.
2/23/2022	2022.040

KEY NOTES



1 FIRE ALARM PLAN
SCALE: 1/4" = 1'-0" **PORT. AE-36**

2 FIRE ALARM PLAN
SCALE: 1/4" = 1'-0" **PORT. AE-37**



3 FIRE ALARM PLAN
SCALE: 1/4" = 1'-0" **PORT. AE-38**

GRAPHIC SCALE IN FEET
0 2 4 8 12

NOT FOR CONSTRUCTION - 9/30/17 ***FOR REVIEW - NOT FOR CONSTRUCTION***

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. NGAI
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.oec-engineers.com

PROJECT NO. 115-22-01
Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

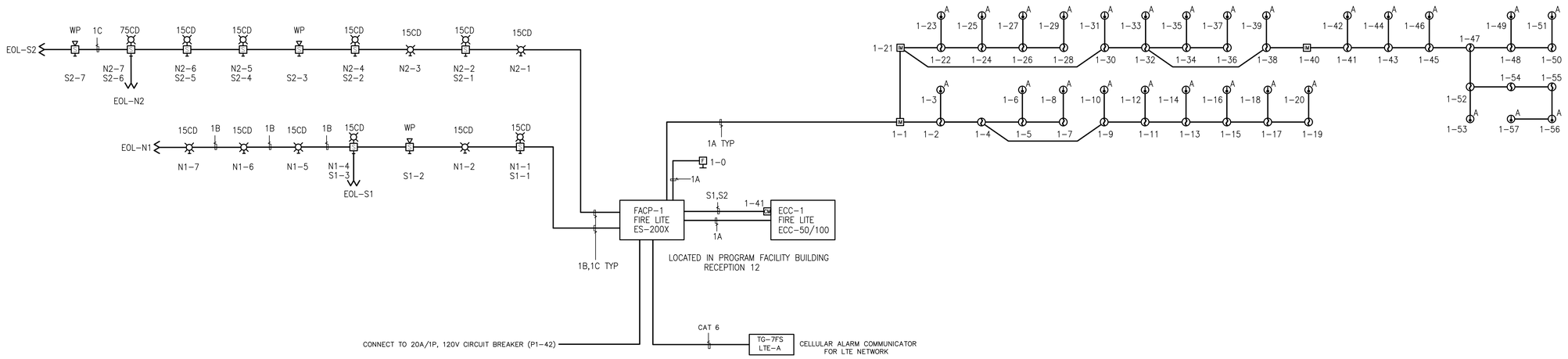
KEY PLAN

DRAWING TITLE
FIRE ALARM PLAN

SHEET NUMBER
FA2.00

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040



1 FIRE ALARM RISER DIAGRAM

NOT TO SCALE

FACP-1 Battery Calculation Work Sheet

						Standby Current (A)		Alarm Current (A)	
ES-200X						0.001	A	1.500	A
		x	Standby	0.038	A	0.000	A		
	0	x	Alarm	0.054	A			0.000	A
		x	Standby	0.020	A	0.000	A		
	0	x	Alarm	0.030	A			0.000	A
Auxiliary Devices Catalog #	**Qty**								
		x	Standby	0.0003	A	0.008	A		
SD 365 Addressable smoke detector	28	x	Alarm	0	A			0.000	A
		x	Standby	0.0003	A	0.008	A		
H365HT Addressable Heat detector	26	x	Alarm	0	A			0.000	A
		x	Standby	0.0003	A	0.000	A		
BG-12LX Pull Station	1	x	Alarm	0.005	A			0.005	A
		x	Standby	0.0003	A	0.001	A		
I300 Isolate module	3	x	Alarm	0	A			0.000	A
Notification Devices Catalog #	**Qty**								
STR 15/75cd Strobe	6	x	Alarm	0.057	A			0.342	A
E70-24MCW-FR 15cd Speaker/Strobe	6	x	Alarm	0.06	A			0.360	A
E70-24MCW-FR 75cd Speaker/Strobe	1	x	Alarm	0.165	A			0.165	A
ET-1010 Weatherproof Speaker	3	x	Alarm	0.06	A			0.180	A
		x	Alarm		A				A
		x	Alarm		A				A
Total Standby Current						**0.018**	**A**		
dde								**2.652**	**A**
Hours of Standby required by NFPA 72 Standards, (4,24 or 60)				**X**	**60**	HOURS			
Total A.H required for standby:								**1.10**	**AH**
5 Minute of Alarm operation per NFPA 72 Standards				**X**	15 min.	(0,25 Hours)			
Total A.H required for Alarm:								**0.213**	**AH**
Add total standby current and alarm current:								**1.32**	**AH**
De-rating factor (25% extra insurance to meet desired performance						**X**		1.25%	
Total A.H provided for battery back-up								**1.65**	**AH**

Notes:

1. An additional multiplier is included to compensate for the higher discharge rate in alarm. Battery capacity decreases w ith age
2. A 4-year old battery can lose up to 50% of its capacity. Compensations should be made to allow for this loss.
3. The Standby current + Alarm current must never exceed 4.66 Amps.
4. **Supplied battery set is 10.00amps**

ECC-50/100 BATTERY CALCULATION WORKSHEET

24 HOUR BATTERY CALCULATIONS
FIRE ALARM REMOTE POWER SUPPLY

QTY (N)	SUPERVISORY		TOTAL (N)	QTY (N)	ALARM		TOTAL (N)
1	**PANEL**	0.272	0.272	1	**PANEL**	0.446	0.446
	PANEL TOTAL		0.272		PANEL TOTAL		0.446
	AUDIO AMPLIFIER				**AUDIO AMPLIFIER**		
1	ECC-50DA	0.012	0.012	1	ECC-50A	0.012	0.012
				0	1/4-WATT SPEAKER	0.01	0
				0	1/2-WATT SPEAKER	0.02	0
				7	1-WATT SPEAKER	0.04	0.28
				3	2-WATT SPEAKER	0.08	0.24
	AUDIO AMPLIFER TOTAL		0.012		AUDIO AMPLIFIER TOTAL		0.532
	SUBTOTAL		6.816				
	TOTAL SUPER. (1)	6.816			TOTAL DEVICES		0
					TOTAL DRAW		0.978
					X 15 MIN ALARM		0.25
					SUBTOTAL		0.2445
	TOTAL SUPERVISORY (1)	6.816			TOTAL ALARM (2)	0.2445	
	TOTAL ALARM (2)	0.245					
	TOTAL DRAW (1) + (2) + 20%	8.473					

NOTE: PANEL IS SUPLIED WITH A 18 AMP HOUR BATTERY

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME------ Bittsburg Independent Studies Program Facilities
SIG CKT #------ N1

DEVICE #	1st	2nd	3rd	4th	5th	6th
GAUGE WIRE	14	14	14	14	14	14
DISTANCE (FT)	40	60	80	80	40	30
AMPS @ DEVICE	0.06	0.057	0.06	0.057	0.057	0.057
AMPS DEVELOPED	0.348	0.288	0.231	0.171	0.114	0.057
VOLT. DROP	0.98547	0.10610	0.11347	0.08400	0.02800	0.01050

TOTAL CKT V.D.=	0.42753
CKT VOLTAGE=	24
VOLT. @ LAST DEVICE	23.57247
%VOLTAGE DROP=	1.78137

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME------ Bittsburg Independent Studies Program Facilities
SIG CKT #------ N2

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th
GAUGE WIRE	14	14	14	14	14	14	14
DISTANCE (FT)	250	50	70	40	70	80	100
AMPS @ DEVICE	0.057	0.06	0.057	0.06	0.06	0.06	0.165
AMPS DEVELOPED	0.519	0.462	0.402	0.345	0.285	0.225	0.165
VOLT. DROP	0.79667	0.14183	0.17278	0.08473	0.12249	0.11052	0.10131

TOTAL CKT V.D.=	1.53033
CKT VOLTAGE=	24
VOLT. @ LAST DEVICE	22.46967

DEVICE DESIGNATION LEGEND

INITIATING DEVICES

EXAMPLES: S 2 - 1
- DEVICE REFERENCE NUMBER
- INITIATING ALD LOOP DESIGNATION
- DEVICE SYMBOL (SMOKE DETECTOR)

SPEAKER/STROBE CIRCUITS:

EXAMPLES: N1-1 / S1-1
- STROBE CIRCUIT DESIGNATION
- DEVICE REFERENCE NUMBER
- DEVICE SYMBOL (SPEAKER/STROBE)
- SPEAKER REFERENCE NUMBER
- SPEAKER CIRCUIT DESIGNATION

SPEAKER CIRCUITS:

EXAMPLES: WP / S1-2
- SPEAKER CIRCUIT DESIGNATION
- DEVICE REFERENCE NUMBER
- DEVICE SYMBOL (SPEAKER)

SEQUENCE OF OPERATION

	ACTIVATE ALL EVAC. SPEAKERS & STROBES	ANNUNCIATE AT PANEL & REMOTE ANNUNCIATOR	ALARM SIGNAL TO CENTRAL STATION	SUPERVISORY SIGNAL TO CENTRAL STATION	TROUBLE SIGNAL TO CENTRAL STATION	SHUTDOWN HVAC SYSTEM	OPERATE FIRE SMOKE DAMPER CLOSEST TO DETECTOR
SMOKE DETECTORS/HEAT	●	●	●			●	●
LOSS OF POWER		●			●		
OPENS AND SHORTS		●			●		
GROUND FAULT		●			●		
MANUAL PULL STATION	●	●	●				

NOTE: AFTER ALARM HAS SOUNDED:

A. EVACUATE THE BUILDINGS.

B. INVESTIGATE THE LOCATION OF THE INITIATING ALARM SIGNAL AND VERIFY EVERYTHING IS CLEAR AT SOURCE OF FIRE ALARM SIGNAL BEFORE RESETTING THE ALARM.

C. INSTALL PER SB 575; AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM SUPERVISORY AND TROUBLE TO AN APPROVED SUPERVISING STATION.

KEY NOTES

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTSBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER — KENNETH S. IRGIN — No. 11537 — Exp. 6/30/23 — ELECT. — STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970-9888
fax (408) 970-9316
www.oec-engineers.com

PROJECT NO. 115-22-01

Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE

FIRE ALARM RISER DIAGRAM, VOLTAGE DROP AND BATTERY CALCULATION.

SHEET NUMBER

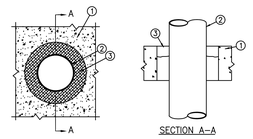
FA3.00

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040

THROUGH-PENETRATION FIRESTOP SYSTEM DETAILS

SYSTEM NO. C–AJ–1027
(Formerly System No. 202)
F RATING – 3 HOUR
T RATING – 0 HOUR



1. FLOOR OR WALL ASSEMBLY – MIN 4–1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX THROUGH OPENING SIZE IS 12.4 SQ. IN.

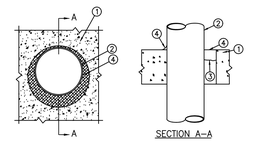
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. PIPE OR CONDUIT – NOM. 10 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) RIGID STEEL CONDUIT, NOM 4 IN. DIA. (OR SMALLER) STEEL EMT OR NOM 3 IN. DIA. (OR SMALLER). TYPE L (OR HEAVIER) COPPER PIPE. MAX ONE PIPE OR CONDUIT PER THROUGH OPENING. MAX ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 3/4 IN. MIN ANULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 0 IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. FILL VOID OR CAVITY MATERIALS – PUTTY–MOLDABLE PUTTY MATERIAL KNEEDED BY HAND AND APPLIED TO FILL ANNULAR SPACE TO A MIN DEPTH OF 1 IN FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED PUTTTY THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL.

   MINNESOTA MINING & MFG. CO.– MPS–2+.
   BEARING THE UL CLASSIFICATION MARKING.

SYSTEM NO. CAJ1044
(Formerly System No. 319)
T RATING – 0 HR
L RATING AT AMBIENT – 2 CFM/SQ FT (SEE ITEM 4)
L RATING AT 400 F – LESS THAN 1 CFM/SQ FT (SEE ITEM 4)



1. FLOOR WALL ASSEMBLY–LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4–1/2 IN. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. THICK UL CLASSIFIED HOLLOW–CORE. PRECOAT CONCRETE UNITS. WHEN FLOOR IS CONSTRUCTED OF HOLLOW–CORE PRECOAT CONCETE UNITS, PACKING MATERIALS (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMETRYCALLY ON BOTH SIDES OF THE FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF CLASSIFIED CONCRETE BLOCKS. MAX DIA. OF OPENING IS 32 IN.
   SEE CONCTRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURER

1A. STEEL SLEVE – (OPTIONAL NOT SHOWN) NOM 16 IN. (OR SMALLER) SCHEDULE 10 (ORHEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP FLOOR OR BEYOND EITHER SURFACE OF WALL.

2. PIPE OR CONDUIT – NOM 30 IN.DIA. (OR SMALLER) CAST IRON OR SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) STEEL CONDUIT, NOM 3 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE OR NOM 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALIC TUBING. MAX ANNU;AR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING NOT TO EXCEED 2 IM. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0 IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDE OF FLOOR OR WALL ASSEMBLY.

3. PACKING MATERIAL – POLYETHYLENE BACKER ROD OR NOM 1 IN. THICKNESS OF THIGHTLY–PACKRD MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OF FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

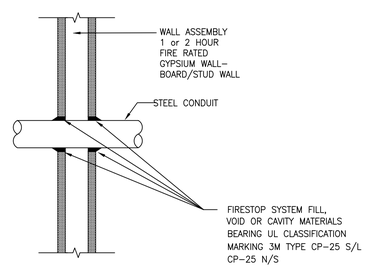
4. FILL, VOID OR CAVITY MATERIAL – CAULK – APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. THE HOURLY F RATING AND THE MIN REQUIRED CAULK THICKNESS ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN ON THE FOLLOWING TABLE.

MIN FLOOR OR WALL THKNS, IN	NOM PIPE TUBE OR CONDUIT DIA. IN.	MAX ANNULAR SPACE, IN	MAX CAULK THKNS, IN	F RATING, HR
2–1/2	1/2–12	1–3/8	1/2	2
2–1/2	1/2–12	2–7/8	1	2
4–1/2	1/2–6	1–3/8	1/4(a)	2
4–1/2	1/2–12	1–1/4	1/2	3
4–1/2	1/2–20	2	1	3
4–1/2	22–30	2	2	3
5–1/2	1/2–6	1–3/8	1(b)	4

(a) MIN 2 IN THICKNESS OF MINERAL–WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.
(b) MIN 1 IN. THICKNESS OF MINERAL–WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1IN. THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE FLOOR OR WALL ASSEMBLY.

MINNESOTA MINING & MANUKACTURING CO – TYPES CP–25 WB, CP–25 WB+.
(NOTE: L RATING AND OR USE OF OPTIONAL SLEEVE APPLY ONLY WHEN TYPE CP–25WB+ CAULK IS USED).

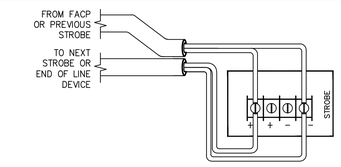
SYSTEM NO. WL1001
(Formerly System No. 147)
F RATING – 1 & 2 HOUR
T RATING – 0, 1, 1–1/2 & 2 HOUR



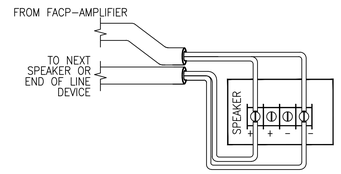
1. SEAL ALL PENETRATIONS IN ACCORDANCE WITH APPLICABLE CODES TO PRESERVE ORIGINAL FIRE HOUR RESISTANCE OF WALLS, FLOORS OR CEILINGS. USE UL DIRECTOY ASSEMBLY NOS. 49 & 328, AS APPLICABLE FOR ALL FIRE WALL PENETRATIONS.

2. AT FIRE SEPARATION WALLS, WRAP CONDUIT WITH 3M CONDUIT WRAP F3–195 TO WITHIN 1/4" OF OPENING; FILL THE GAP AND COVER EDGE OF WRAP WITH 3M–CP25 CAULK AND/OR #303 PUTTY.

FIRE ALARM DEVICES DETAILS

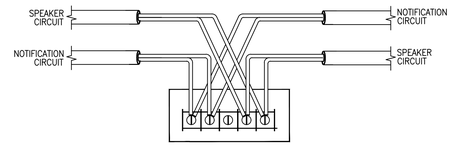


STROBE CIRCUIT, 24VDC

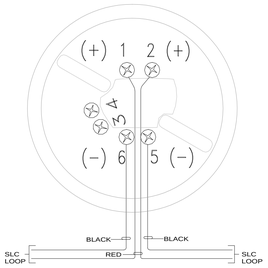


SPEAKER CIRCUIT

NOTE:
1. STROBE CIRCUIT COMING FROM THE NAC USE: 24K, 1/2 WATT END OF LINE DEVICE.

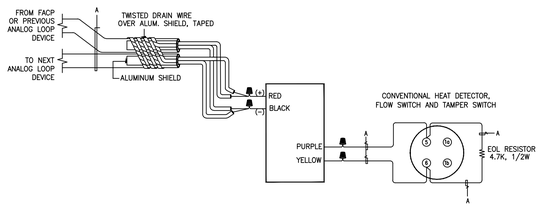


SPEAKER/STROBE CIRCUIT, 24 VDC

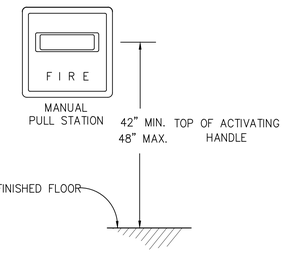


DETECTOR BASE

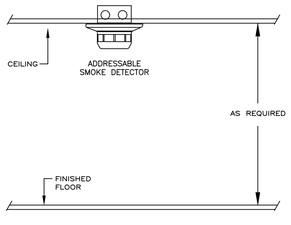
MONITOR MODULE FOR FLOW SWITCH AND TAMPER SWITCH



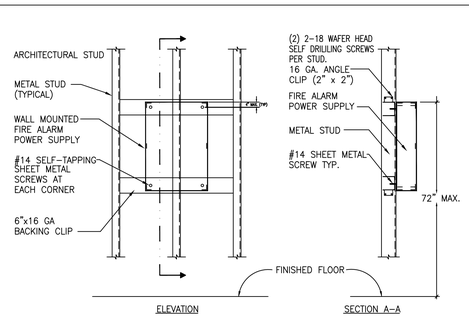
MODULE, SINGLE INPUT



MANUAL PULL STATION ELEVATION



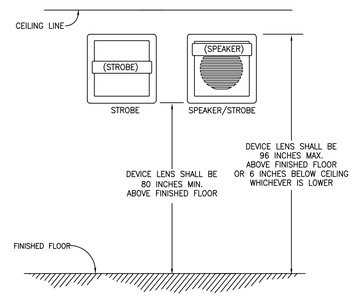
DETECTORS MOUNTING DETAIL



FIRE ALARM POWER SUPPLY MOUNTING DETAIL

TYPICAL MOUNTING OF EQUIPMENT WEIGHING OVER 20 LBS. (120 LBS MAXIMUM)

FACP/FCPS MOUNTING DETAIL



TYPICAL MOUNTING ELEVATION
DETAIL OF STROBE & SPEAKER/STROBE

FACP EQUIPMENT ANCHORAGE NOTE

ALL FIRE ALARM COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWNG COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2010 CBC, SECTIONS 1615A.1.12 THROUGH 1615A.1.22 AND ASCE

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.

THE ATTACHMENT OF THE FOLLOWING COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDE BETWEEN THE COMPONENT AND ASSOCIATED 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
B. COMPONENTS WEIGHING 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

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.

PUSD - INDEPENDENT STUDIES PROGRAM FACILITIES

1151 STONEMAN AVENUE PITTSBURG, CA

PITTSBURG UNIFIED SCHOOL DISTRICT

2000 RAILROAD AVENUE
PITTBURG, CA 94565

HAMILTON + AITKEN ARCHITECTS
525 BRANNAN STREET STE 400
SAN FRANCISCO, CA 94107
T: 415 974 5030
www.HAarchs.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. NGAI
No. 11537
Exp. 6/30/23
ELECT.
STATE OF CALIFORNIA

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970–9888
fax (408) 970–9316
www.aec–engineers.com

PROJECT NO. 115-22-01
Consultant

NO.	ISSUED FOR:	DATE
1	DSA SUBMITTAL	4/4/2022
2	DSA REVIEW	11/29/22
3	RE BID	1/17/23

APPROVALS

KEY PLAN

DRAWING TITLE
FIRE ALARM DETAILS

SHEET NUMBER
FA3.01

CAD FILE: Untitled 4

DATE	PROJECT NO.
2/23/2022	2022.040

(2) 36'X40' CLASSROOM

JOB NO. 1967

CLASS LEASING

SYMBOLS		
TYPE	SYMBOL	DESCRIPTION
DETAIL	1 / -	DETAIL ON SAME SHEET AS SYMBOL
DETAIL	1 / 2	DETAIL NUMBER (1) ON SHEET NUMBER (2)
NOTE	1	NOTE NO 1. ON SAME SHEET AS SYMBOL.
NOTE	4 / 5	NOTE NO. 4 ON SHEET NUMBER (5)
WALL PANEL	A / 1	WALL PANEL TYPE "A" ON SHEET (1).
SECTION	A / 2	SECTION "A" ON SHEET (2)
REF.	1	REVISION:CHANGE IN DWG. NO. (1). FIRST REVISION
REF.	CLOUD	HIGHLIGHTS CHANGED AREA

SHEET INDEX	
ARCHITECTURAL	A.0 - COVER SHEET A1.0 - FLOOR/ROOF PLAN A2.0 - ROOF PLAN A3.0 - EXTERIOR ELEVATIONS A4.0 - INTERIORS ELEVATIONS A4.1 - INTERIORS ELEVATIONS A5.0 - FINISH SCHEDULE A6.0 - ARCHITECTURAL DETAILS A6.1 - TYPICAL DETAILS A7.0 - REFLECTED CEILING A7.1 - REFLECTED CEILING DETAILS
STRUCTURAL	F1.0 - FOUNDATION PLAN & DETAILS (WOOD) F1.1 - FOUNDATION PLAN & DETAILS (WOOD) S1.0 - FLOOR FRAMING PLAN END UNITS S1.1 - FLOOR FRAMING PLAN CENTER UNIT S2.0 - ROOF FRAMING PLAN END UNITS S2.1 - ROOF FRAMING PLAN CENTER UNIT S2.2 - OVERALL ROOF FRAMING PLAN S3.0 - STRUCTUAL ELEVATIONS & DETAILS S3.1 - STRUCTUAL DETAILS S4.0 - STRUCTUAL DETAILS S5.0 - WALL FRAMING DETAILS S5.1 - WALL FRAMING DETAILS S5.2 - WALL FRAMING DETAILS
MECHANICAL	M1.0 - HVAC PLAN
PLUMBING	
ELECTRICAL	E1.0 - ELECTRICAL PLAN
RAMP	R1.0 - RAMP PLAN R2.0 RAMP DETAILS

BUILDING DATA	
36'X40'BLD'G.	
OCCUPANCY	E-1/B-2
TYPE OF CONSTRUCTION	V-N
WIND LOAD	70 MPH, EXP. "C"
FLOOR LIVE LOAD	50 P.S.F. 40 P.S.F. Partition
ROOF LIVE LOAD	20 P.S.F.
BUILDING AREA	1440 SQ.FT.
STRUCTURAL DESIGN	STEEL FRAME

IDENTIFICATION STAMP
APPROVED BY THE STATE ARCHITECT
APPL.01- 112222
ADS DSA DATE AUG 30 2011
ACC: Janet McFarland

STATE OF CALIFORNIA
DEPARTMENT OF GENERAL SERVICES
AUG 05 1994
SERVICE SECTION
STATE ARCHITECT
SECTION 4.3

WITH THE SIGNING OF THE DRAWINGS, WE ACKNOWLEDGE THAT WE HAVE REVIEWED THESE PLANS AND SPECIFICATIONS AND HAVE FOUND THEM TO BE IN GENERAL COMPLIANCE WITH THE BID DRAWINGS, SPECIFICATIONS AND ASSOCIATED ADDENDUMS. WHEN THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE ARCHITECT, THEY SHALL PRESIDE OVER CONFLICTING AREAS IN THE BID DRAWING AND SPECIFICATIONS, AND ANY ADDENDUMS THERETO.

APPLICABLE CODES - NEW CONSTRUCTION
TITLE 24, C.C.R., PART 2, 1991 C.B.C. (1991 UBC W/ CALIF. AMENDMENTS)
TITLE 24, C.C.R., PART 3, 1992 C.E.C. (1991 NEC W/ CALIF. AMENDMENTS)
TITLE 24, C.C.R., PART 4, 1991 C.M.C. (1991 UMC W/ CALIF. AMENDMENTS)
TITLE 24, C.C.R., PART 5, 1991 C.P.C. (1991 UPC W/ CALIF. AMENDMENTS)
TITLE 19, C.C.R., PUBLIC SAFETY, DIV. 1, STATE FIRE MARSHALL REGULATIONS

"AS ALTERNATE FOR ALL SHOT PIN ATTACHMENTS, USE #10 S.T.S.M.S. AT THE SAME SPACING."

APPLICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 11-2222
ADS
DATE 8-30-11

GEORGE E. CONNORS
No. C 19964
REN. 9-30-96
LICENSED ARCHITECT
STATE OF CALIFORNIA

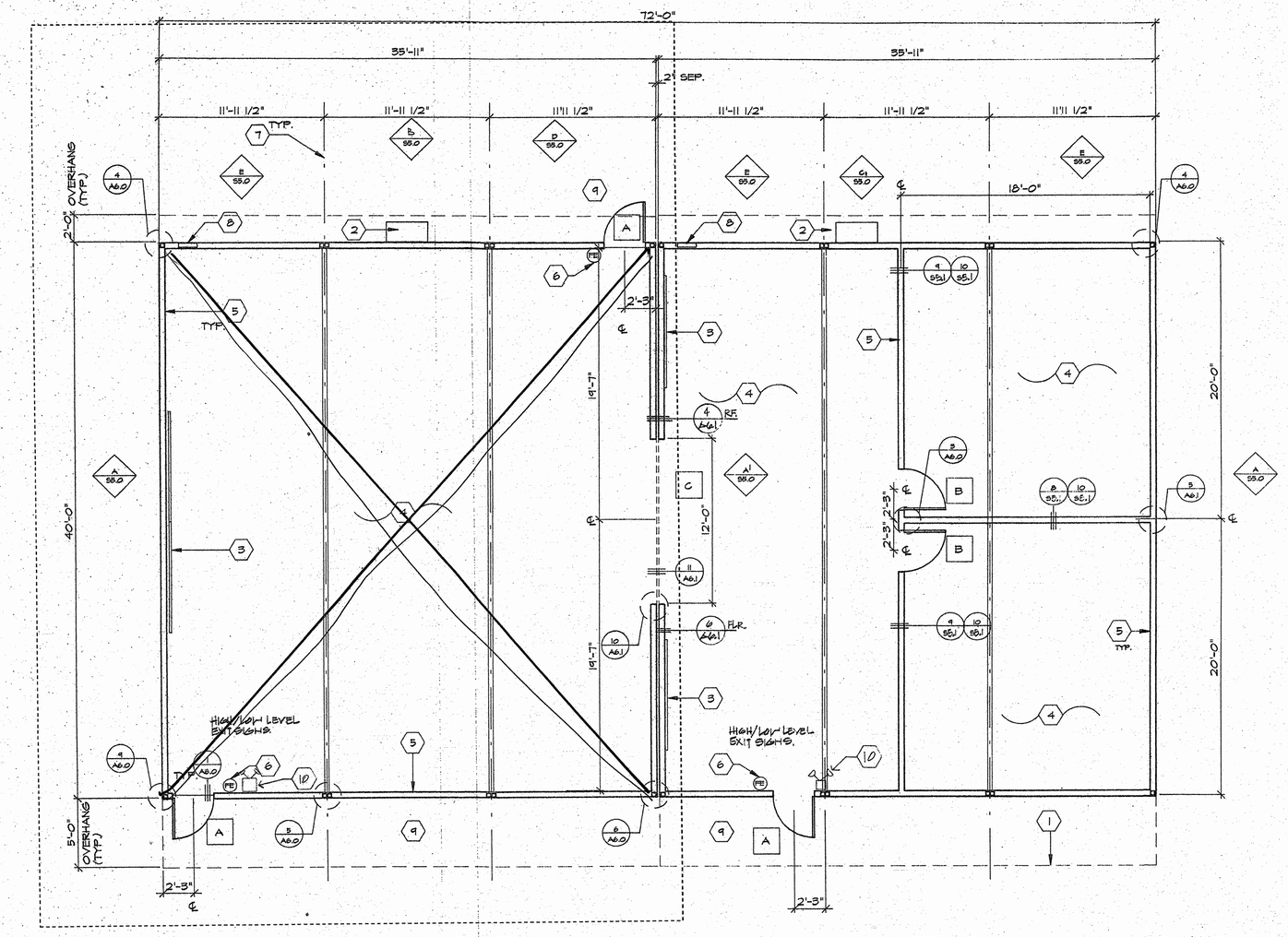
JOHN FREDERICK T. SHORES
No. 3602
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-1996

PORTION 3
4012-061
STKP-12 CLSS.007

DRAWN BY CC
DATE 4/28/94
CHECKED BY
DATE

TITLE SHEET A0

PC 1



NOTES

- A — EXTERIOR DOOR SEE DOOR SHCEDULE
- B — INTERIOR DOOR SEE DOOR SHCEDULE
- C — CASE OPENNING SEE DOOR SHCEDULE

1. ROOF OVERHANG
2. HVAC UNIT - SEE M-1
3. 2- 8'X4' MARKER BOARDS (SEE SPEC'S.FOR TYPE)
4. FINISH FLOORING: (SEE FINISH SCHED.)
5. TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE)
6. FIRE EXTINGUISHER - 5 LBS. DRY CHEMICAL WITH 2A-10BC U.L. RATING ON WALL MTD. BRACKET AT 48".
7. MODLINE (1" TYPICAL)
8. 14'X16" BAROMETRIC PRESSURE DAMPER
9. RAMP AND STAIR PLAN (SEE R1,R2.0)
10. EMERG. LIGHTING W/BATTERY BACK-UP DUAL LIGHT EZ-2

GENERAL NOTES

A. METAL TAG ON ALL MODULES, MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING SHOW O.S.A. APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER.

EXIT ILLUMINATE SIGNS
ACTIVE SAFETY UL# 9948

INTERIOR REFERENCE
SHEET A4.0

FLOOR PLAN

SCALE 1/4"=1'-0"

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICE — APPROVED — JUL 19 1994

IDENTIFICATION STAMP FOR THE STATE ARCHITECT
APPL 01- 112222
DATE AUG 30 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
No. C 2530 REN: 9-30-95 STATE OF CALIFORNIA		No. 3602 LICENSE EXPIRES 6-30-1995				

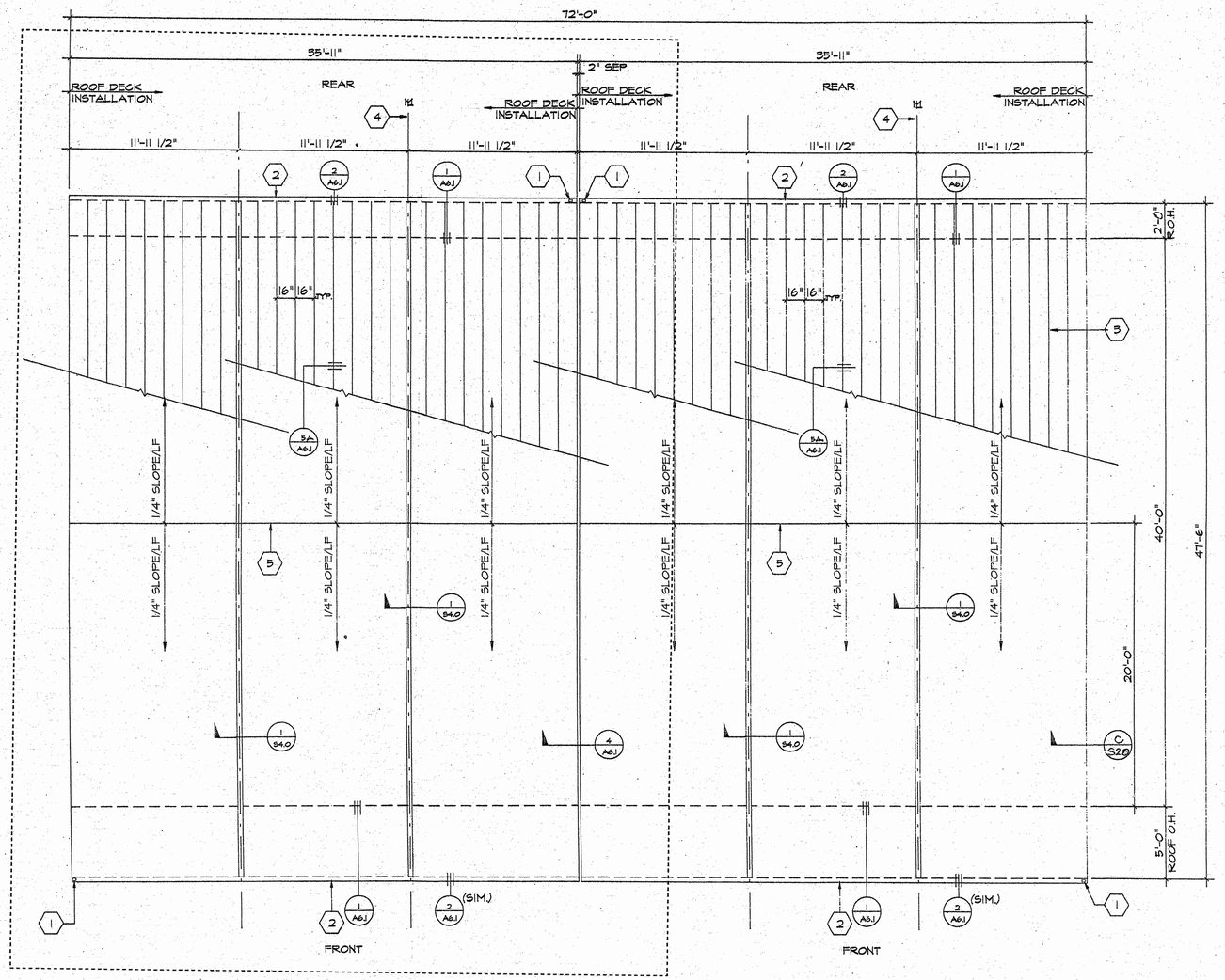
MODTECH INC.

JOB NO. 1967

DRAWN BY CC
DATE 4/25/94
CHECKED BY
DATE

CLASS LEASING PORTION 3
4012-061
STKP-12 CLSS.007

FLOOR PLAN A1.0



NOTE

1. DOWNSPOUT (TYPICAL) 3"X2"X26.GA
2. CONTINUOUS GUTTER 26.GA.
3. 22.GA. MIN. INTERLOCKING ROOF PANELS 16" WIDE X 5" STANDING RIB.
4. MODLINE
5. RIDGELINE

ROOF PLAN

SCALE 1/4"=1'-0"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
No. C 26... REN 9-30-96 STATE OF CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER JAMES T. ANDERSON No. 36021 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1996				

CERTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 01-112222
AC DATE JUL 19 1994
FILE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-112222
ACC DATE AUG 3 0 2011
FILE

MODTECH INC.

JOB NO. 1967

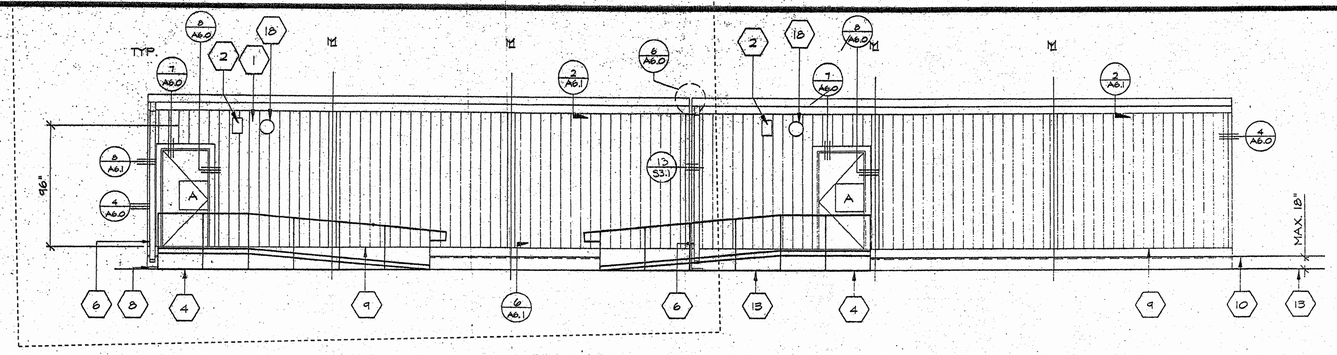
© MODTECH INC. 1994

CLASS LEASING

PORTION 8
4012-061
BTKP-18 CL88.007

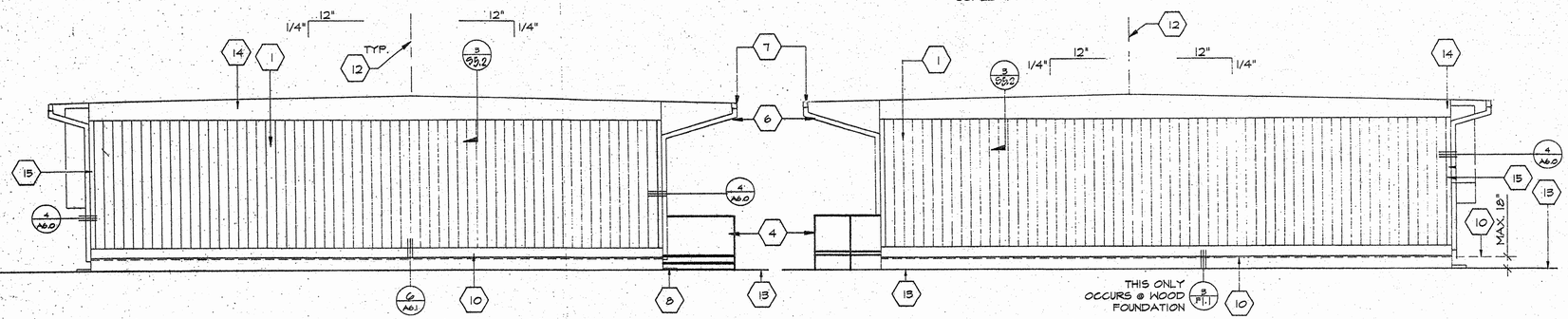
DRAWN BY
DATE 4/27/94
CHECKED BY
DATE

ROOF PLAN A2.0



1 FRONT ELEVATION

SCALE 1/4"=1'-0"

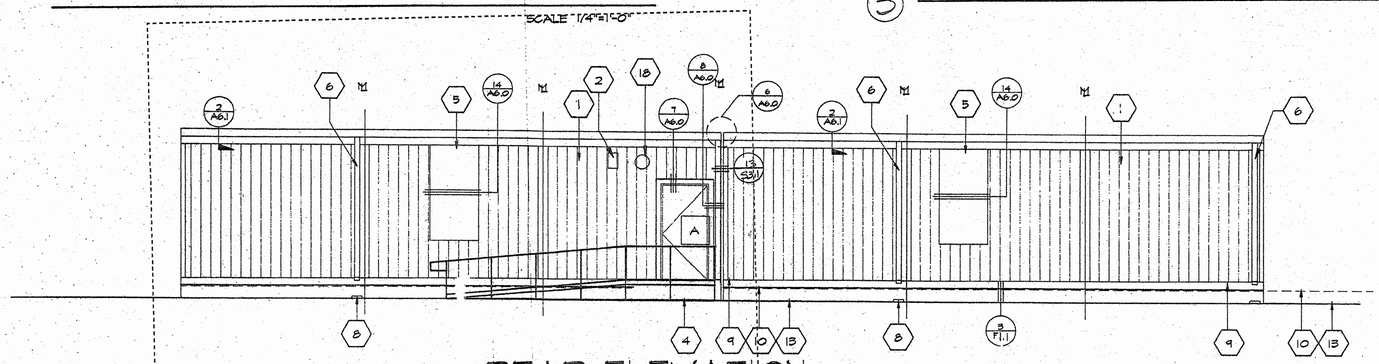


2 SIDE ELEVATION

SCALE 1/4"=1'-0"

3 SIDE ELEVATION

SCALE 1/4"=1'-0"



4 REAR ELEVATION

SCALE 1/4"=1'-0"

NOTES

A EXTERIOR DOOR (SEE DOOR SCHED.)

1. TYPICAL EXTERIOR SIDING (SEE FINISH SCHED. A-5.0)
2. EXTERIOR LIGHT FIXTURE @ OVER DOOR (SEE SPECIFICATIONS)
3. NOT USED
4. RAMP AND LANDING SEE SHT. A-1
5. HVAC UNIT SEE SHT. M-1
6. DOWNSPOUT (TYP.) ONE FASTEN TO BLDG. TYP. 2 PLACES
7. CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOW ON ROOF PLAN A2.0)
8. SPLASH BLOCK (BY OTHERS)
9. FINISH FLOOR LINE
10. BOTTOM FLANGE OF FLOOR BEAM
11. ROOF HEADER
12. RIDGE
13. FIN'SH GRADE
14. ROOF BEAM (SEE STRUCTURAL)
15. COLUMN (SEE STRUCTURAL)
16. NOT USED
17. NOT USED
18. FIRE ALARM HORN
19. NOT USED

IDENTIFICATION STAMPS
APPROVED BY THE STATE ARCHITECT
APPL 01- 112222
ARB DATE AUG 30 2011
DSA
APPROVED STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 01 16 14
AC
DATE JUL 19 1994

SCALE : 1/4"=1'-0"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
No. C 20... REN. 9-30-95 STATE OF CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER No. 3602 STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1996				

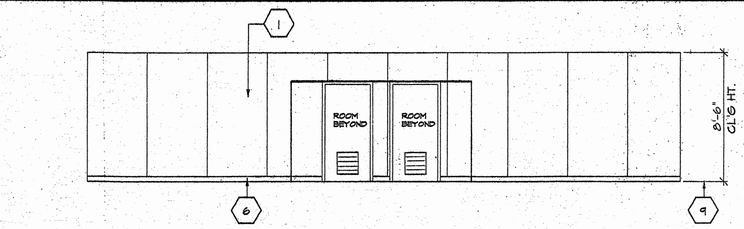
MODTECH INC.

JOB NO. 1967

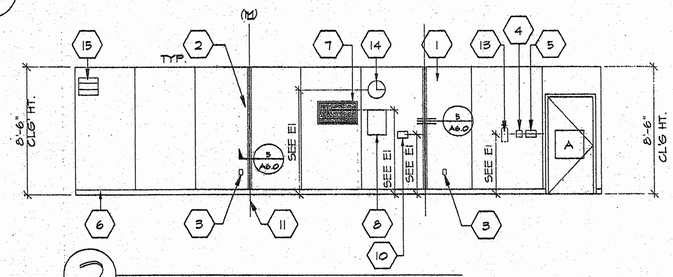
DRAWN BY CC
DATE 4/25/94
CHECKED BY
DATE

CLASS LEASING
PORTION 3
4012-061
STKP-12 CLS5.007

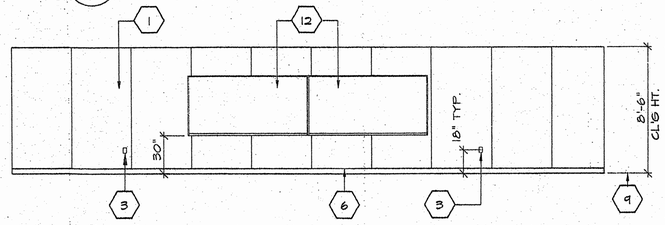
EXTERIOR ELEVATIONS A3.0



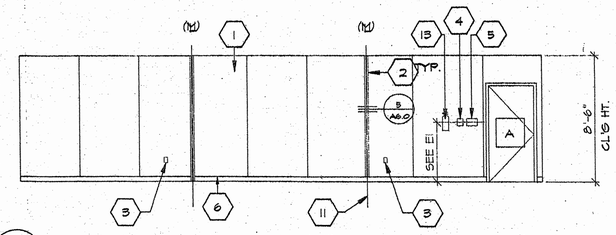
1



2



3



4

INTERIOR ELEVATIONS

SCALE 1/4"=1'-0"

NOTES

A — EXTERIOR DOOR (SEE DOOR SCHEDULE SHT.A5.0)

A — EXTERIOR WINDOW (SEE DOOR SCHEDULE SHT.A5.0)

1. TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE SHT.A5.0)
2. CLOSURE AT MODULAR JOINT
3. DUPLEX WALL RECEPTACLE (SEE SPEC'S) +18" A.F.F. TO ℄ (SEE E-1)
4. FIRE ALARM PULL STATION (SEE E-1)
5. LIGHT SWITCH (SEE E-1)
6. TOP SET BASE (TYPICAL) SEE FINISH SCHED.
7. RETURN AIR GRILL (RAG.)
8. ELECTRICAL PANEL (SEE E-1)
9. FINISH FLOOR
10. THERMOSTAT (SEE MECH. DRAWG'S) AND (SEE E-1)
11. MODULAR JOINT
12. 8040 MARKBOARD (SEE SPECS.)
13. FIRE EXTINGUISHER: 5LBS. DRY CHEMICAL WITH 2AQ-10BC U.L. RATING ON WALL MTD. BRACKET AT 48"
14. 12" DIA. ELECTRIC CLOCK (N.I.C.) (SEE E-1)
15. BAROMETRIC PRESSURE DAMPER (14"X16")

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
DATE JUL 10 2001

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
APPL 01- 112222
DATE AUG 30 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
BEN T. [illegible] STATE OF CALIFORNIA		No. 3602 Registered Professional Engineer JAMES T. SUROVEK STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1995				

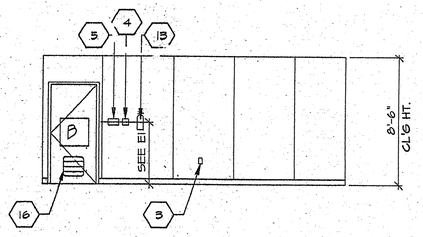
MODTECH INC

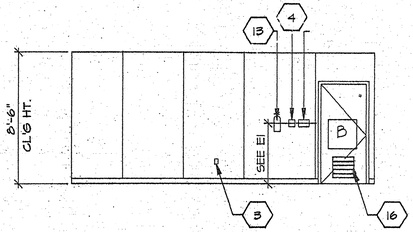
JOB NO. 1967

CLASS LEASING PORTION 3
4912-051
STKP-12 CL99.007

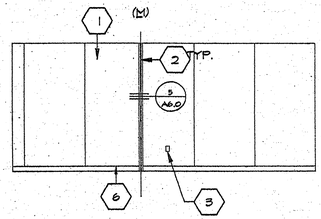
DRAWN BY
DATE 4/26/94
CHECKED BY
DATE

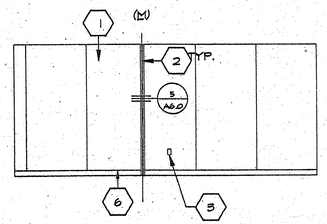
INTERIOR ELEVATIONS A4.0



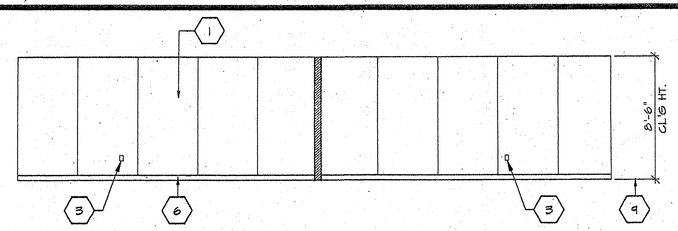


3 INTERIOR SPACES

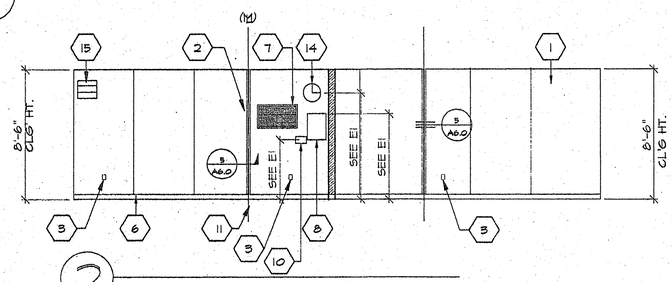




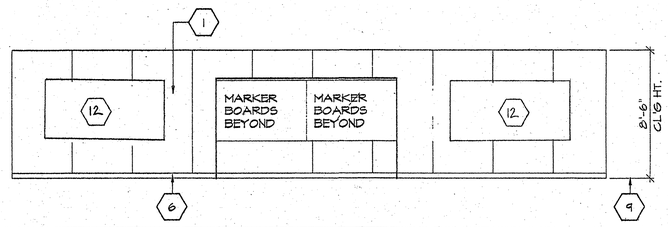
4 INTERIOR SPACES



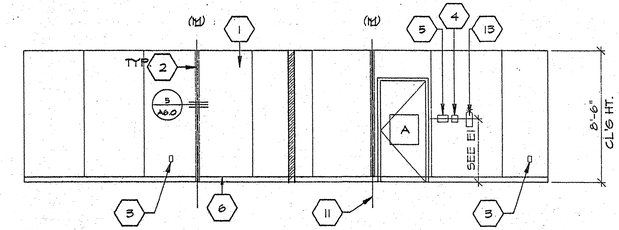
1



2



3



4 INTERIOR ELEVATIONS

SCALE 1/4"=1'-0"

NOTES

- A — EXTERIOR DOOR (SEE DOOR SCHEDULE SHT.A5.0)
- A — EXTERIOR WINDOW (SEE DOOR SCHEDULE SHT.A5.0)

1. TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE SHT.A5.0)
2. CLOSURE AT MODULAR JOINT
3. DUPLEX WALL RECEPTACLE (SEE SPEC'S, +18" A.F.F. TO ℄ (SEE E-1)
4. FIRE ALARM PULL STATION (SEE E-1)
5. LIGHT SWITCH (SEE E-1)
6. TOP SET BASE (TYPICAL) SEE FINISH SCHED.
7. RETURN AIR GRILL (RAG.)
8. ELECTRICAL PANEL (SEE E-1)
9. FINISH FLOOR
10. THERMOSTAT (SEE MECH. DRAWG'S) AND (SEE E-1)
11. MODULAR JOINT
12. 8040 MARKBOARD (SEE SPECS.)
13. FIRE EXTINGUISHER: 5LBS. DRY CHEMICAL WITH 2AQ-10BC U.L. RATING ON WALL MTD BRACKET AT 48"
14. 12" DIA. ELECTRIC CLOCK (N.I.C.) (SEE E-1)
15. BAROMETRIC PRESSURE DAMPER (14"X16")
16. DOOR V.E.N.T. (24"X18")

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL # 01-112222
AG
DATE 1994

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL.01- 112222
AG
DATE AUG 30 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
No. C-6555 STATE OF CA. REN. 9-30-95		REGISTERED PROFESSIONAL ENGINEER No. 3602 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1995				

MODTECH INC,

JOB NO. 1967

CLASS LEASING
PORTION 3
4012-061
STKP-12 CL35.007

DRAWN BY CC
DATE 4/26/94
CHECKED BY
DATE

INTERIOR ELEVATIONS A4

DOOR SCHEDULE

DOOR NO.	FRAME OPENING SIZE	MATERIAL	TYPE	FIRE PROTECTION RATING	HARDWARE SET NO.	FRAMES: MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT	NOTE NO.
(A)	3'-0" X 6'-8"	HM	A		1-FH	HM	7/A6.0	8/A6.0		5-1/8"	
(C)	12'-0" X 6'-8"	CO									
(A)	3'-0 X 6'-8	HM			2		7/A6.0	8/A6.0		5 1/2"	8
(B)	3'-0 X 6'-8	HM			2		7/A6.0	8/A6.0		5 1/2"	8

DOOR TYPES

NOTES:
1. DOOR HANDLES FOR LOCKSETS TO BE CENTERED @ 38" A.F.F. & DEADBOLTS @ 44" A.F.F.
2. HARDWARE TO BE OR OPENABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
3. ALL DOORS SHALL BE 1-3/4" THICK, U.N.O.
4. DOUBLE LETTERS IN SCHEDULE, INDICATES A PAIR OF DOORS.
5. SAFETY GLASS, CLEAR.
6. WIRE GLASS
7. UNDERCUT DOOR
8. FIXED VENT. (24"X18")
9. FUSIBLE LINK LOUVER
10. VISION PANEL
11. CLOSURES SHALL BE SET FOR: MAX. OPENING PRESSURE 8.5LBS EXTR. DR. 30 LBS INTR. DR.

ABBREVIATIONS
HM - HOLLOW METAL
AL - ALUMINUM
SST - STAINLESS STEEL
STL - STEEL
WWF - WINDOW WALL FRAME
SC - SOLID CORE WOOD
HC - HOLLOW CORE WOOD
SCL - SOLID CORE WOOD W/ LAMINATED PLASTIC FACES.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME OF AREA	FINISHES: FLOOR	BASE	WALLS: NORTH	EAST	SOUTH	WEST	CEILING	CEILING HEIGHT	REMARKS
1	CLASSROOM	A	D	F	F	F	F	L	8'-6"	
2	SPACE-1	A	D	F	F	F	F	L	8'-6"	
3	SPACE-2	A	D	F	F	F	F	L	8'-6"	

MATERIAL & FINISH KEY

- (A) - CARPET PER STATE OF CALIFORNIA SPEC. COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN WITH 4" TOPSET BASE.
- (B) - RESILLENT - SPECIFY OR EQUAL
- (C) - VCT - ARMSTRONG STANDARD OR EXCELON
- (D) - 4" BURKE
- (E) - 6" BRIGANTINE OR SANDOVAL
- (F) - 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP. BOARD BACKING
- (G) - 1/2" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED
- (H) - 5/8" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
- (I) - 1/2" GYP. BOARD TAPE/TEXTURE . . . WITH PAINTED FINISH
- (J) - 5/8" GYP. BOARD TAPE/TEXTURE WITH PAINTED FINISH
- (K) - 1/2" MARLETE OVER 1/2" W.R. GYP BOARD
- (L) - ACCOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS

NOTES

DOOR SPECS. EXTERIOR.
FRAME SPECS. SEE SPEC'S

DOOR SPECS. INTERIOR
FRAME SPECS. SEE SPEC'S

WINDOWS SPECS. (3) 8040 XOX ANODIZED ALUMINUM BRONZE GLAZING; 7/32" MIN. TEMPERED GLASS OF SOLAR GRAY WITH A LIGHT TRANSMISS FACTOR OF 46%. ALL OPERABLE SASH SHALL HAVE ALUMINIUM SCREEN.

WINDOW SCHEDULE

QTY.	WIDTH	HEIGHT	TYPE	FINISH	GLASS TYPE	WINDOW TYPES
10	8'-0"	4'-0"	XOX	ANODIZED	7/32" MIN SOLAR GRAY 46% (3)	~~SLIDER (XOX)~~
						FIXED
						DOUBLE HUNG
						SLIDER (XO)

HARDWARE SCHEDULE

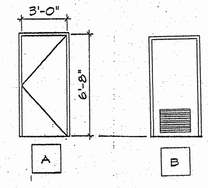
HARDWARE PACKAGE #1

LOCKSET - D70 SCHLAGE
PD RHODES LEVER OR PANIC HDWR. WHERE REQ'D (PRECISION)
BUTTS - 1-1/2 PR. HAGER 1279 BB 4-1/2 X 4-1/2 NRP 26D OR EQUAL
CLOSER - NORTON 1601 OR EQUAL
THRESHOLD - PEMKO 271A OR EQUAL
DOOR BOTTOM - PEMKO 216AV OR EQUAL
WEATHERSTRIP - PEMKO 299AV OR EQUAL (1)

HARDWARE PACKAGE #2 (INTERIOR)

LOCKSET - D10 (PASSAGE) WITH RHODES LEVER
BUTTS - 1-1/2 PR. HAGER 1279 BB 4-1/2 X 4-1/2 NRP 26D

DOOR TYPES



NOTES:

SUB-FLOOR PREP.

PREPARTION FOR SUB FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB FLOOR IS 2.4.1 PLYWOOD; OUTER PLY IS PLUGGED AND TOUCH SANDED, ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODULE JOINING SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.

LICENSE EXPIRES 6-30-1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL # 1 1 2 2 2 2 AC DATE 8-10-1994

(3) 4-28-94
(1) 6-29-93

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL 01- 112222 ADS DATE AUG 3 0 2011

REVISED 4-28-94
REVISED 12-8-93

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
DENISE C. GRAHAM RA 17886 REN. 8-30-99 STATE OF CALIFORNIA				APPROVED FIRE AND PANIC EXITS MAY 1 1993	PC 3 APR 01 1993	MAY 2 4 1993 PC 2

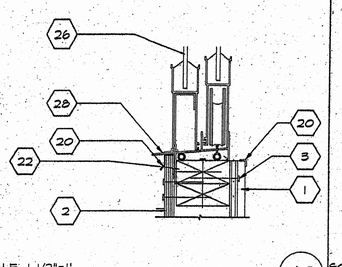
MODTECH INC.

JOB NO. 1967

PORTION 3
4012-061
STKP-18 CLSS.007

DRAWN BY: CC
DATE: 11/11/9
CHECKED BY:
DATE:

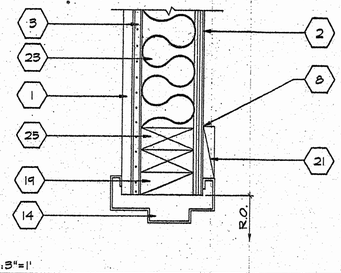
FINISH SCHEDULE A5



SCALE: 1-1/2"=1'

SILL PLATE

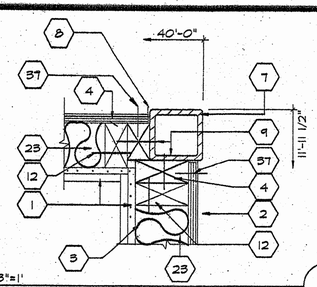
12



SCALE:3"=1'

DOOR JAMB

8



SCALE:3"=1'

CORNER COLUMN

4

36 2X6 LET-IN (SEE WALL FRAMING SHT 55.0)

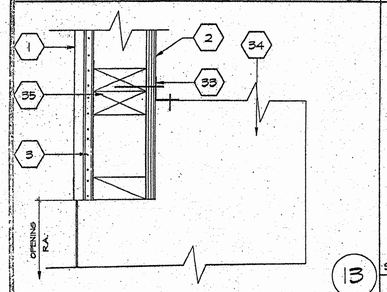
37 E.N. 8d BOX ELEGRO GAL @ 6"O.C. MAX.
F.N. @ 12" O.C. MAX.

38 CLOSURE SCREEN

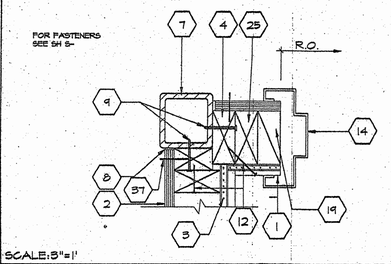
MANUFACTURE NOTE:

BARD:

20GA. MT'G FLANGES INTEGRAL TO UNITS (TYP.) 13/16"XUNIT LENGTH W/(6) 5/16" HOLES @ 12" O.C. USE 1/4"X2 1/2" LAG(S) @12" O.C.



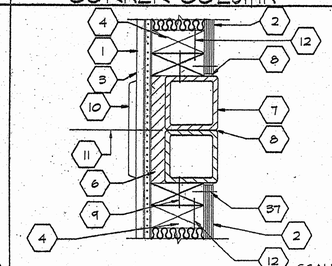
13



SCALE:3"=1'

DOOR JAMB

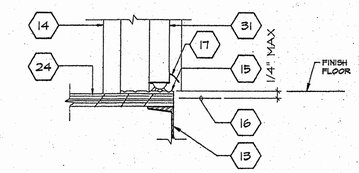
9



SCALE:3"=1'

COLUMN @ MODLINE

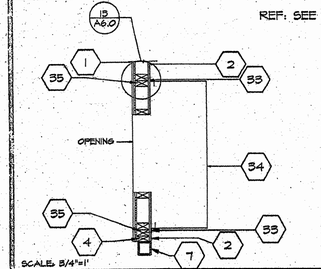
5



SCALE:3"=1'

THRESHOLD

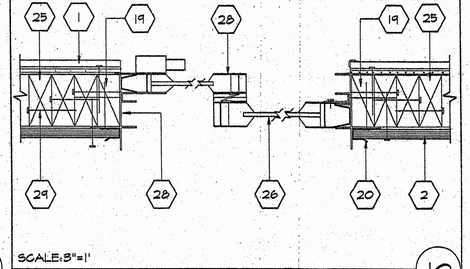
1



SCALE: 3/4"=1'

A.C. UNIT

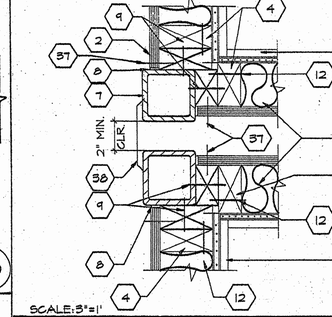
14



SCALE:3"=1'

WINDOWS SECTION @ JAMBS

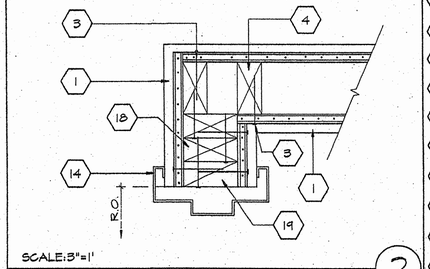
10



SCALE:3"=1'

CLOSURE BETWEEN BLDG'S

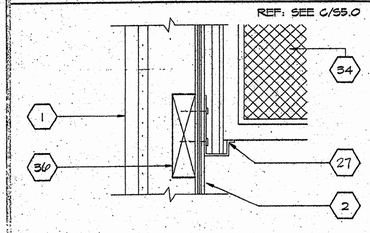
6



SCALE:3"=1'

INTERIOR DOOR JAMBS

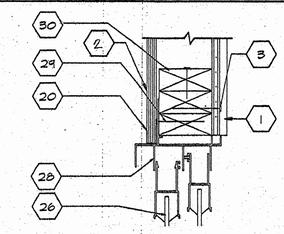
2



SCALE: 3"=1'

A.C. UNIT -BOTTOM

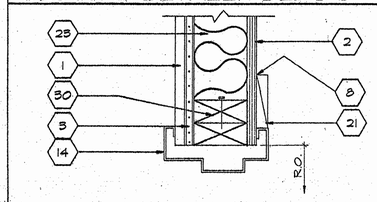
15



SCALE: 1-1/2"=1'

WINDOW HEADER

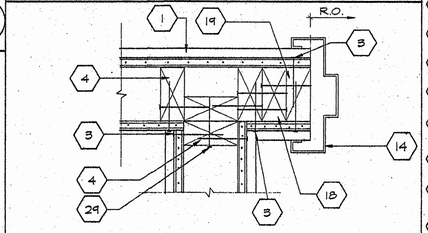
11



SCALE:3"=1'

DOOR HEADER

7



SCALE:3"=1'

INTERIOR DOOR JAMBS

3

GENERAL NOTES

A. EN 8d ELEGRO GAL. @ 6" O.C.
B. FN 8d ELEGRO GAL. @ 12" O.C.

NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SHCED.)
2. TYP. EXTERIOR FINISH
3. 1/2" GYPSUM BOARD BACKING W/ 7d COOLER NAILS @ MAX 7" O.C. TYP. @ EA. STUD
4. 2X4 STUD TYP.@ 16" O.C. MAX.
5. 16d @ 16" O.C. MAX.
6. FILLER
7. TUBE STEEL COLUMN (SEE STRUCTURAL)
8. SEALANT TYP. (SEE SPECS.)
9. #10 S.T.S.M.S. @ MAX. 24" O.C. 2X FILLER TO COLUMN SEE STRUC. FOR CONN. (ALT. HILTI DN32 PB SHOT PIN)
10. VINYL CLOSURE
11. MODULE JOINT
12. 16d @ 24" O.C. FACE NAIL OR 16d @ 12" O.C. TOE NAIL
13. FLOOR BEAM (SEE STRUCTURAL)
14. PRESSED STEEL FRAME (K.D. TYPE SEE A5.0).
15. ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16. FINISH LANDING SEE FLOOR PLAN & FOUNDATION FOR TYPE AND FINISH
17. DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18. (2) 2X4 KING STUD (SEE SHT. 55.1 TABLE 25Q FOR NAILING)
19. 2X4 TRIMMER (SEE SHT. 55.1 TABLE 25Q FOR NAILINGS)
20. "J" MOLD
21. 1X4 WOOD TRIM W/8d ELECTRO GALV. @ 12" O.C.
22. 2-2X4 SILL PLATE W/16D @ 16" O.C.
23. INSULATION (SEE SPECS. FOR SIZE AND TYPE)
24. FINISH FLOORING (SEE FINISH SCHEDULE SHT. A5.0)
25. 2X4 JAMB STUDS (SEE SHT. 55.1 DETAILS FOR NUMBER OF STUDS REQUIRED AND TABLE 25Q FOR NAILING)
26. WINDOW GLAZING (SEE WINDOW SCHEDULE SHEET A5.0)
27. MIN 10 Gage, BTM. SUPPORT BRACKET MFG BY D. H/G - 3/8"4 x 2" Long BOLT
28. ALUMINUM WINDOW FRAME WITH NAIL-ON FINISH, INSTALL W/MIN. 3" BLDG. PAPER BTWN. FIN. AND FRAMING, INSTALL WITH 8d @ MAX 24" O.C.
29. 16d BOX STAGGERED @ MAX 24" O.C.
30. HEADER (SEE SHT. 55.1 WALL FRAMING DETAILS)
31. DOOR (SEE DOOR SCHED.)
32. SEE SHEET 55.1 FOR TYPICAL WALL FRAMING
33. ATTACHMENT BRACKET (SEE MFG. NOTE)
34. HVAC UNIT (SEE SHEET M-1)
35. 4"X4" POST OR 2 - 2x4 W/FACE NAIL 16d @ 12"oc.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL.01- 112222
AGENCY NAILING AUG 30 2011 BY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 1
AGENCY NAILING
DATE AUG 30 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT, No. C 9958, STATE OF CALIFORNIA, REN. 9-30-96		REGISTERED PROFESSIONAL ENGINEER, No. 36021, STATE OF CALIFORNIA, LICENSE EXPIRES 6-30-1998				

MODTECH INC.

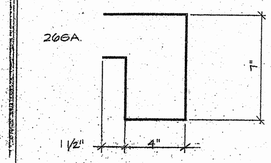
JOB NO. 1967

DRAWN BY:
DATE 4/94
CHECKED BY:
DATE:

PORTION 3
4012-061
STKP-12 PI-55.007

TYPICAL DETAILS

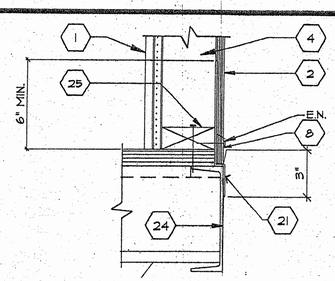
A6.0



SCALE: 3"=

CONTINUOUS GUTTER

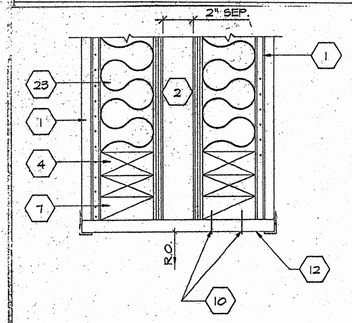
CONTINUOUS GUTTER 9



NOTE: FLASHING AS SHOWN SUPPLIED BY MODTECH. SEE NOTE #21 ANY OTHER FLASHING OR EXTENSION IS THE RESPONSIBILITY OF THE SITE CONTRACTOR OR SCHOOL DISTRICT

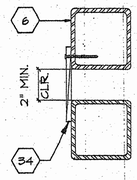
SCALE: 3"=1'

TYPICAL SILL @ FLOOR 6



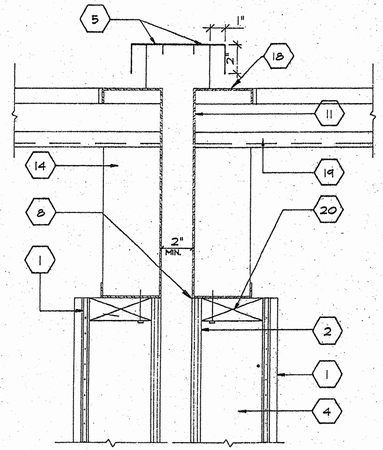
SCALE: 3"=1'

JAMB/HEAD @ 2" SEP. 10



SCALE: 3"=1'

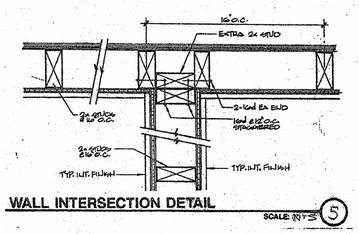
SEPARATION @ COLUMNS 7



SEE SHT. S5.2 FOR WALL CONNECTIONS

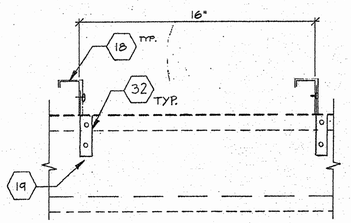
SCALE: 3"=1'

ROOF CAP @ SEP. 4



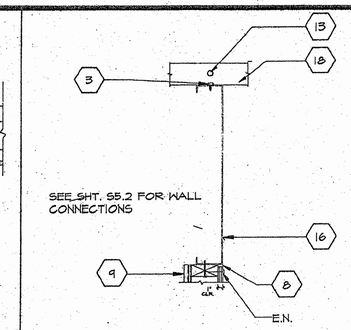
WALL INTERSECTION DETAIL 5

SCALE: 3"=1'-0"



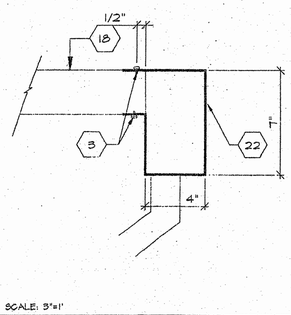
SCALE: 3"=1'-0"

ROOF SEAM 5A



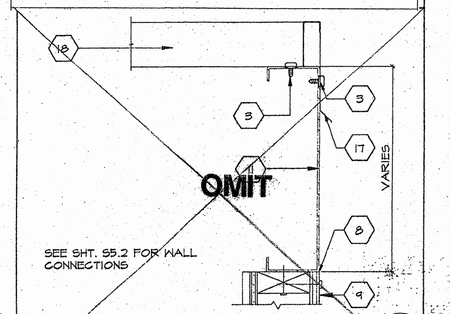
SCALE: 1 1/2"=1'

END WALL @ ROOF 1



SCALE: 3"=1'

GUTTER @ ROOF HEADER 2



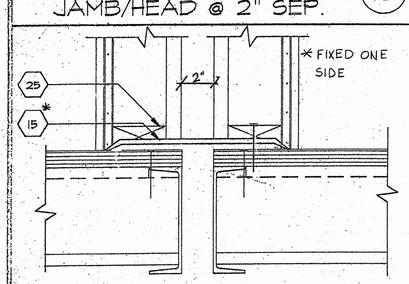
SEE SHT. S5.2 FOR WALL CONNECTIONS

SCALE: 3"=1'

ROOF FLASHING @ ROOF BEAM 3

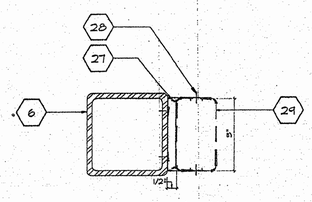
NOTES

1. TYP. INTERIOR FINISH
2. TYP. EXTERIOR FINISH
3. #14 STSMS W/NEO. WASHER @ MAX. 8' o.c.
4. 2X4 STUD TYP.
5. CAP CLOSURE @ RIDGE 26GA. GALV. W/#10 X 3/4" FASTENERS @ 48" O.C. W/NEOPRENE WASHERS TO RE: SET BOTH SIDES OF CAP IN SEALANT.
6. TUBE STEEL (SEE STRUCTURAL)
7. 2X4 TRIMMER FULL HEIGHT
8. SEALANT TYP. (SEE SPECIFICATIONS)
9. EXTERIOR WALL (SEE S5.2 FOR CONNECTIONS)
10. 8d FINISH NAIL @ 6" o.c. SET & CAULK
11. ROOF BEAM (SEE STRUCTURAL)
12. IX JAMB PLATE
13. (1) - #14 X 3/4" STSMS W/NEOPREN WASHER THRU RIB @ HEADER & MAX. 32" o.c. TYP.
14. FULL DEPTH STIFFENER PLATE (SEE STRUCTURAL FOR LOCATION)
15. FLOATING THRESHOLD (ATTACH BY FIELD DIV.)
16. ROOF HEADER (SEE STRUCTURAL)
17. G.I. FLASHING 22GA.
18. STANDING SEAM ROOF (SEE 6/S4.0)
19. ROOF PURLIN (SEE STRUCTURAL)
20. CONTINUOUS 2X4 TOP PLATE
21. 22GA. GALV. FLASHING
22. CONTINUOUS 26GA. GUTTER
23. INSULATION (SEE SPECS. FOR TYPE AND SIZE)
24. FLOOR BEAM (SEE STRUCTURAL)
25. 2X4 SILL PLATE ATTATCHED PER 4/S5.2
26. 24GA. X 11 1/2" STRAP @ 48" O.C.
27. ATTACHMENT BRACKET (TYP. 3-PLACES, TOP,BTM., & MIDSPAN W/2-#10STSMS BRACKET TO COLUMN)
28. POP RIVETS MIN. 1/8"Ø
29. DOWNSPOUT
30. BLOCKING BRACKET
31. 8" O.C. MAX SPACING
32. ROOF STRAP (SEE ROOF PLAN)
33.
34. 26GA. TRIM ATTACH TO COLUMN ONE SIDE W/#10 STSMS @ 12" O.C. ALT. EXPENDED METAL CLOSE OFF



SCALE: 3"=1'

TYPICAL SILL @ FLOOR 11



SCALE: 4"=1'

DOWNSPOUT ATTACHMENT 8

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL # 16 14
ACCESS
DATE JUL 10 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPL 01-112222
ACCESS
DATE AUG 30 2001

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
[illegible] STATE OF CALIFORNIA		No. 3632 LICENSE EXPIRES 6-30-1998				

MODTECH INC.

JOB NO. 1967

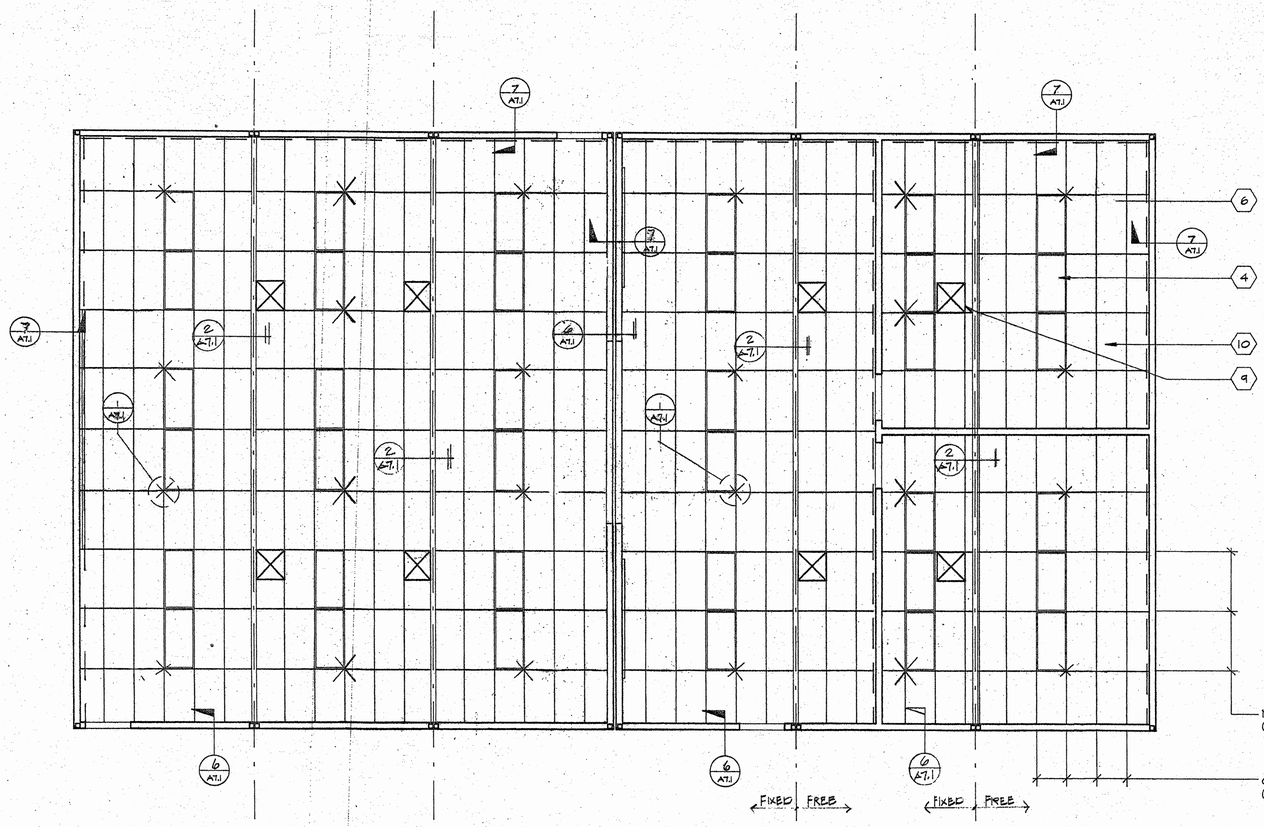
CLASS LEASING PORTION 3
4012-061
STKP-12 CL99.007

DRAWN BY:
DATE 4/21/94
CHECKED BY:
DATE

TYPICAL DETAILS A6

PC 1

REAR



FRONT

NOTES

1. MAIN RUNNERS @ 4'-0" W/12GA. HANGER WIRES @ END OF EACH RUNNER.
2. AT THE END OF ROWS OF RUNNERS A 12GA. HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT
3. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
4. PROVIDE 2-12GA. BLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS. WIRES SHALL BE ATTACHED TO STRUCTURE OF LIGHT FIXTURES. ATTACH FIXTURE TO GRID W/1-#8 SHEET METAL SCREW AT EACH CORNER.
5. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT 2-ADJACENT WALLS, OTHER WALLS NO ATTACHMENT, CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL AT FREE END.
6. CEILING AREAS SHALL HAVE 4-WAY SPLAYS PER DETAIL , ON SHEET A7.1 IN LOCATIONS INDICATED ON DRAWINGS. WIRES TAUT BUT NOT TO DISTORT GRID.
7. MAIN RUNNERS: CHICAGO #1870, 4' CROSS TEE; CHICAGO #1854, 2' CROSS TEE; CHICAGO #1856 WALL ANGLE; CHICAGO #420, HEAVY DUTY SYSTEM
8. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
9. REGISTERS SHALL BE POSITIVELY ATTACHED W/4-10GA. SHEET METAL SCREWS.(TYP. 1- @ EA. CORNER)
10. CEILING PANELS: 2 X 4 LAY-IN PANELS. ASTM FLAME SPREAD CLASS 1 (0-25). FLAME SPREAD SMOKE DEVELOPMENT DENSITY LESS THAN 450

LEGEND

- T & T BAR CEILING
- 2'X4' ELEC. FIXTURE RECESSE
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- SPLAY WIRE 4 Way
- INDICATES FREE SIDE (SEE DETAIL 6A/A8.0)
- INDICATES FIXED SIDE (SEE DETAIL 6B/A8.0)

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01- 112222
AUG 30 2011

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 6 1 1 1 4
DATE JUL 19 2011

STATE OF CALIFORNIA
REN. 9-30-12

REGISTERED PROFESSIONAL ENGINEER
No. 3602
CIVIL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-1998

MODTECH INC.

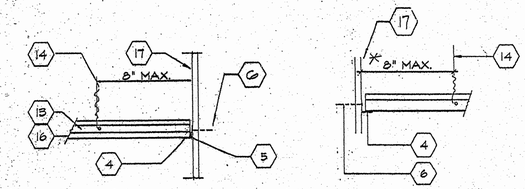
JOB NO. 1967

CLASS LEASING PORTION 3
4012-061
STKP-18 CL88-007

DRAWN BY C
DATE 4/2
CHECKED BY
DATE

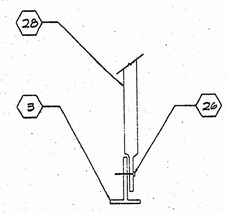
REFLECTED CEILING PLAN A7

PC 1

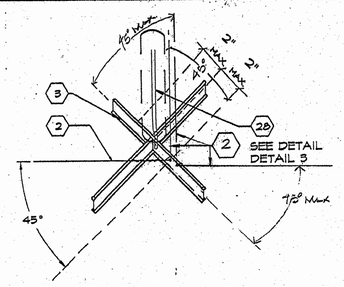


ALTERNATE

TYPICAL FIXED SIDE — 7



4



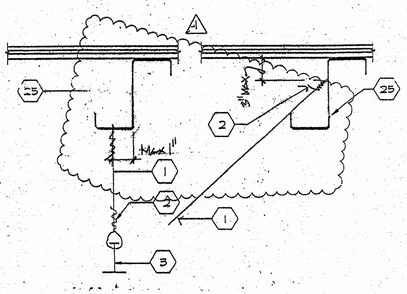
1

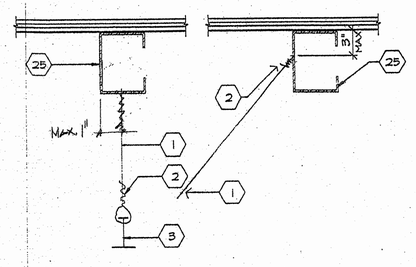
NOTES

1. 12GA. HANGER WIRE IN PUNCHED OR DRILLED HOLE 2-HOLES MIN. 1" APART
2. 12GA. WIRE WITH 4 WRAPS IN 1 1/2" (TYP.)WIRE TO RUN PERPENDICULAR TO MAIN TEE
3. MAIN RUNNER
4. 1/8"ϕ POP RIVET TO EACH T-BAR
5. WALL ANGLE 1 5/16" x 1 5/16" x 22Ga. ∠
6. 6d 16" @ FRAMING TO WALL STUD
7. ANGLE WITH 1/8"ϕ POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
8. TOP PLATE
9. MODLINE
10. 3"X1/4"ϕ EYED SCREW
11. HANGER TO WALL WHERE NO RAFTER ABOVE MAX SLOPE 1" IN 6"
12. ~~MAIN TEE CLOSURE--NOT USED~~ ⚠1
13. CROSS TEE
14. 12GA. HANGER WIRE AT THE END ON EACH RUNNER MIN. 4 WRAPS IN MAX 1 1/2"
15. MAIN RUNNERS OR CROSS TEES
16. ACOUSTICAL BOARD
17. FINISH WALL
18. HORIZONTAL STRUTS SHALL RUN CONTINUOUS AT ALL PERIMETERS, NOT POP RIVETED TO THE WALL ANGLE USE 6d RING SHANK NAIL TO EA TEE.
19. 29GA. C x 2" FREE SIDE
20.
21.
22. #8 TEK SCREW @ MAX 24" O.C.
23. ROOF BEAM (SEE STRUCTURAL)
24. NOT USED
25. ROOF PURLIN (SEE STRUCTURAL)
26. CRIMP CONDUIT AND ATTACH TO T-BAR GRID W/#8 TEKSCREWS
27. CRIMP CONDUIT TO RAFTER W/2-#8 TEKSCREW
28. 3/4" E.M.T. CONDUIT
29. #8 TEKSCREW ⚠1 6-29-93

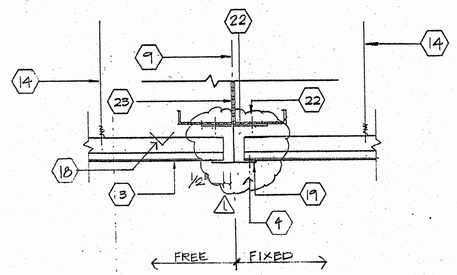
IDENTIFICATION STAMP AS PER THE STATE ARCHITECT
APPL.01- 112222
DATE AUG 3 0 2001

IDENTIFICATION STAMP AS PER THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL. 5 1 6 1 4
DATE JUL 19 1994

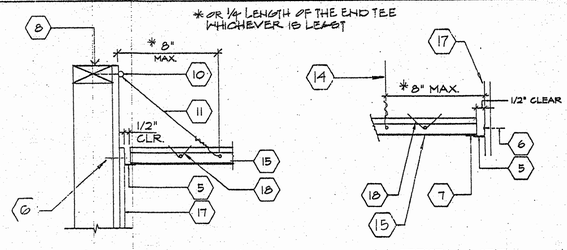




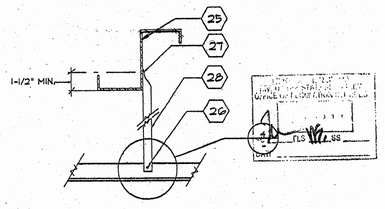
5



2



TYPICAL FREE SIDE — 6



3

REVISED 11/5/93 10-8-93

LICENSED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 5602 REGISTERED STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-1995

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT JAMES T. SIMPSON No. C 5956 REN. 9-30-95 STATE OF CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 5602 STATE OF CALIFORNIA		APPROVED FIRE AND PANIC ONLY APR. 1 1993 STATE FIRE MARSHAL SOUTHERN REGION	ACCESS COMPLIANCE SECTION APR 01 '93 Reviewed by	Department of General Services Division of the State Architect MAY 2 4 1993 Structural Safety Section PC 243

MODTECH INC.

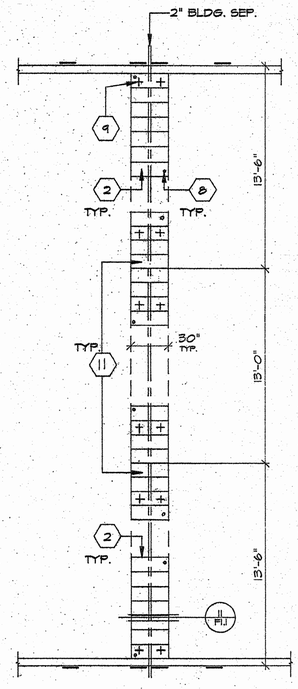
1-24'X40'JOB NO. 1994
27-24'X40' JOB NO. 1997

DRAWN BY CC
DATE 11/11/92
CHECKED BY
DATE

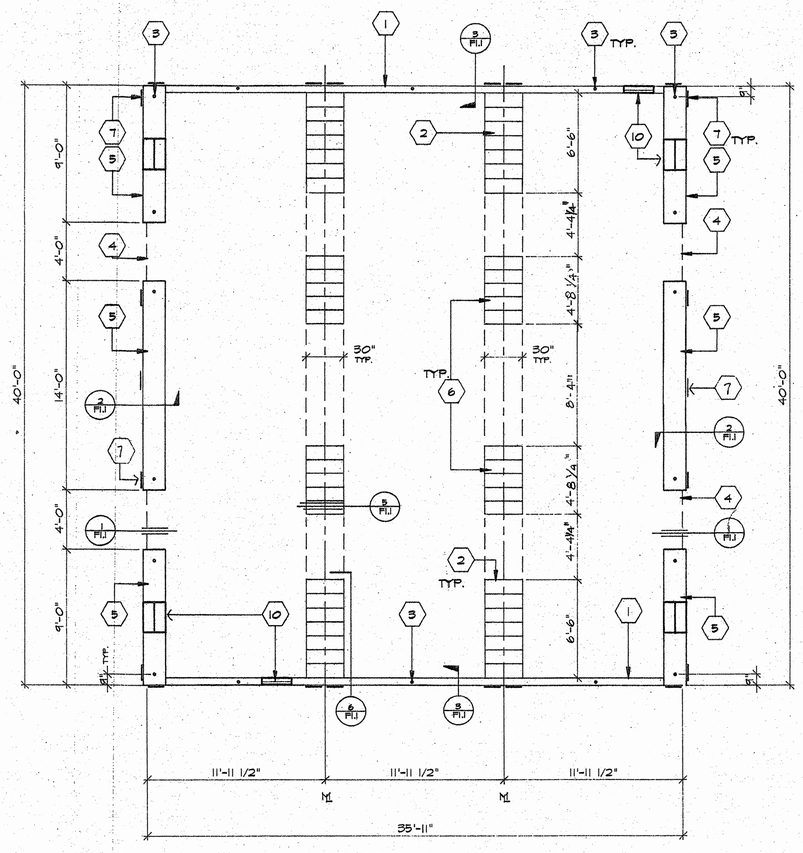
PORTION 3
4D12-061
STKP-12 CL95.007

REFLECTED CEILING DETAILS

A7



PAD FTG'S AT ADJ. BLDG.



FOUNDATION VENTS

BUILDING AREA = 1440 SQ.FT.
VENTS REQ'D = 1440 SQ.FT. / 150 = 9.6 SQ.FT.
VENTS = 48" x 4½" = 216 x 4 = 864/144 = 6.0 SQ.FT.
24" x 4½" = 108 x 6 = 648/144 = 4.5 SQ.FT.

FOUNDATION (WOOD SILL)

SCALE 1/4"=1'-0"

NOTES

1. 2"X4" SILL PLATE
2. 7 - 2X12X30" LONG
3. PIPE TO GRADE (TYP.)
4. 4½ HIGH BY - LONG VENT
5. 2X12 SILL PLATE
6. 5-2X12 SILL PADS
7. 6"X12"X10 GA. PLATE
8. 1" ϕ PIPE EA. END EA. PAD AT ADJ. BLDG. LINE
9. 5/8" ϕ X4" LAG (6-PER BLDG. MIN.)
10. 2"X4½" VENT (SEE NOTE #15 FI.1)
11. 8 - 2X12 X 30" LONG

GENERAL NOTES:

A. SOIL RESTRAINT: ON A.C. PAVING AND ON SOIL 1" O.D. GALVANIZED PIPE AT 10'-0" 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1-1/4" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (18-1/2" LONG PIPE REQUIRED FOR PENETRATION AT 45° ANGLE.)

B. ON CONCRETE PAVING HILTI DS 82-P10 THRU SILL PLATE:

END WALLS: 8" O.C.
SIDE WALLS: 22 "O.C.

C. WHERE SHIM STOCK IS REQUIRED FOR LEVELING USE 1/4", 1/2", OR 3/4" THICK PLYWOOD SAME WIDTH AS BLOCK. P.T.

D. VERIFY DRAINAGE TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. WITH DISTRICT ARCHITECT SITE PLANS

E. ALL FOUNDATION MATERIAL SHALL BE
HEIM FIR
GROUND CONTACT: LP-22
ABOVE GROUND: P.T. NOT REQ'D

DISTRIBUTION STAMP
DIVISION OF STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 1614
ACCEPTS
DATE 11 1 0 2001

IDENTIFICATION STAMP
BY OR UNDER THE STATE ARCHITECT
APPL 01- 112222
ACCEPTS
DATE AUG 3 0 2001

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT No. C 2556 REN. 9-30-95 STATE OF CALIFORNIA		No. 3602 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1995				

MODTECH INC,

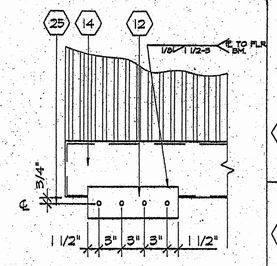
JOB NO. 1967

CLASS LEASING PORTION 3
4012-061
STKP-12 CLSS.007

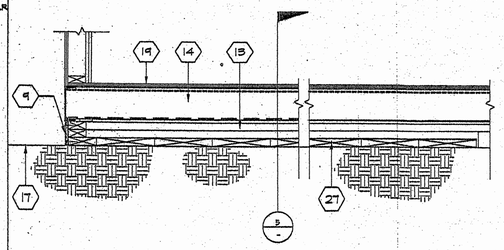
DRAWN BY CC
DATE 4/27/94
CHECKED BY
DATE

FOUNDATION WOOD

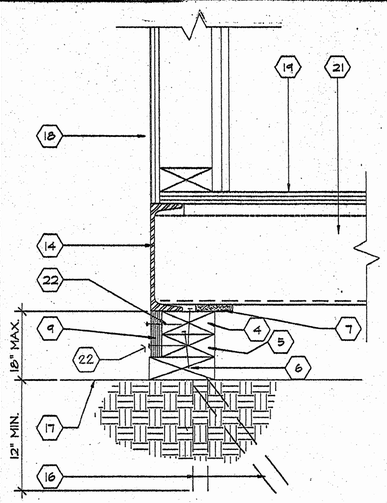
FI.0



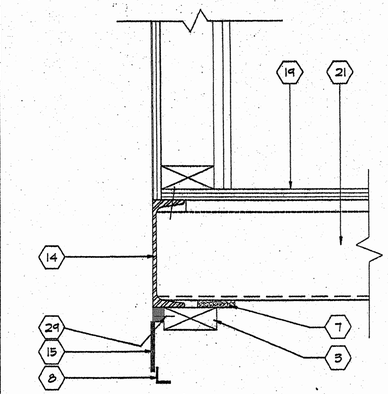
9 SCALE: 1 1/2"=1'-0"
ALTERNATE HOLD DOWN



6 SCALE: 1 1/2"=1'-0"
MODLINE PAD @ END WALL



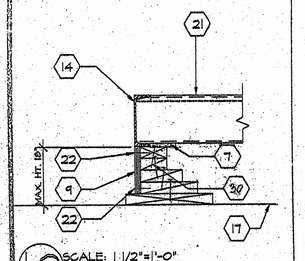
3 SCALE: 3"=1'-0"
FOUNDATION @ END WALL



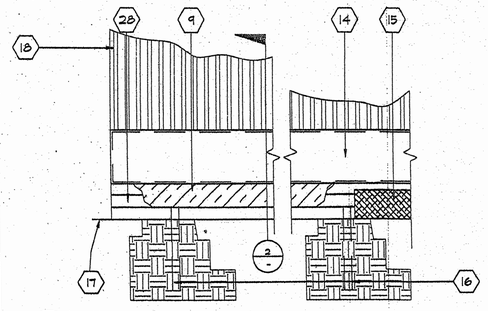
1 SCALE: 3"=1'-0"
FOUNDATION VENT

NOTES

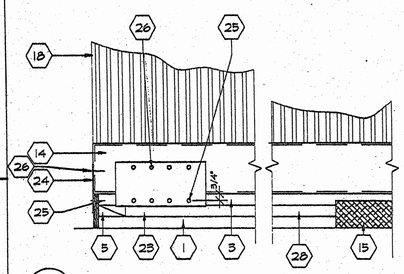
1. 2X12 SILL PLATE SEE FOUND. PLAN FOR LENGHT
2. 2X8 TOP PLATE W/16d @MAX 4"O.C. TO SILL PLATE
3. 2X6 CONT. TOP PLATE W/16d @MAX 12" O.C.
4. 2X3 TOP PLATE CONT. W/16d @ Max 12" o.c.
5. 2X3 BLOCKING W/16d MAX. 4" o.c. O.C. TO SILL PLATE
6. 2X4 CONT.SILL PLATE
7. 5/8"X2 1/2" SHIM (WHEN REQ.)
8. ANGLE
9. MIN. 3/8" PLYWOOD SHIRTING W/10d BOX @ MIN. 6" O.C. @ ENDWALLS & 6" O.C. @ SIDEWALLS E.N. & TYP. 12" O.C. FN.
10. ADD BLK'ING OR SHIMS AS REQ. TO MAX. HT. SEE DETAIL #2
11. MIN. FOUNDATION HEIGHT SEE DETAIL #2
12. 10GA. PLATE 4"X12"
13. 2X8 BLK'ING FACE OR TOE NAIL 16d @ MAX 12" O.C. ADD BLKS. OR SHIMS AS REQ'D
14. FLOOR FRAME BEAM SEE. STRUCTURAL
15. VENT SCREEN SEE FOUNDATION PLAN FOR SIZE AND LOCATION
16. SILL RESTRAINT 1" ø PIPE SEE FOUND. FOR LOCATION
17. FINISH GRADE
18. EXTERIOR FINISH
19. PLYWOOD SUBFLOOR
20. MOD-LINE
21. FLOOR-JOIST
22. EN SEE NOTE #9
23. 6"X12"X10 GA. PLATE W/4 -#10 SMS TO FLR. & 4-1/4" X5" LAG TO FOUND. TOP PLATE
24. 6"X12"X10 GA. PLATE
25. 1/4" ø X3" LG. LAG SCREW TYP. 4-PLACES
26. #10 S.T.S. TYP. 4-PLACES
27. 2X12X2'-6" SILL PLATE SEE FOUND. PLAN FOR QUANITY REQ'D
28. 2X8 BLK'NG W/16d @ MAX. 6" O.C. MIN. 3 PER BLOCK (MAY VARY ACCORDING TO SITE)
29. 10d GALV. BOX NAIL @ MAX. 4" O.C.
30. INSERT REQ'D 2X4 BLK'NG OR PLYWD. SHIM W/16d @ 12" O.C. FACE NAIL
31. 6-5/8" ø LAG BOLT X 4" SEE FOUNDATION PLAN FOR LOCATION
32. 2X8 BLK'NG FACE NAIL 10d @ MAX. 4" o.c.



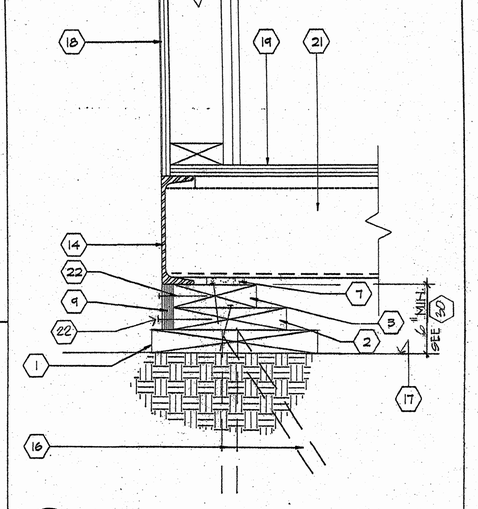
10 SCALE: 1 1/2"=1'-0"
ADD BLK'S/SHIMS TO LEVEL FOUND.



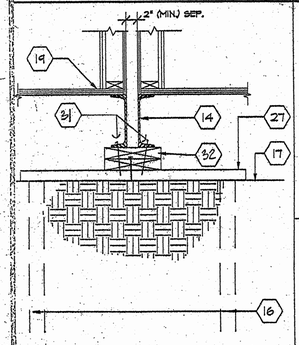
7 SCALE: 1 1/2"=1'-0"
FOUNDATION ELEVATION @ SIDE WALL



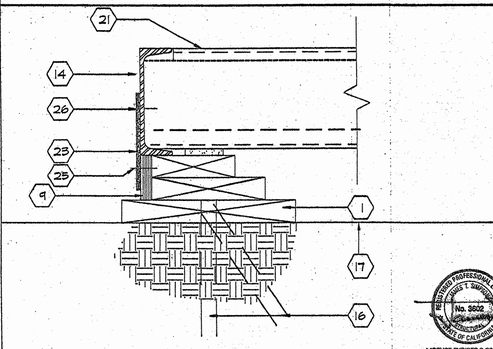
4 SCALE: 1 1/2"=1'-0"
DETAIL @ FOUNDATION CORNER



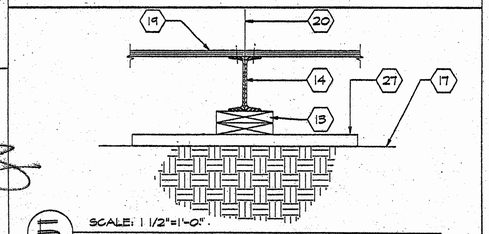
2 SCALE: 3"=1'-0"
FOUNDATION @ SIDE WALL



11 SCALE: 1 1/2"=1'-0"
FOUND. AT ADJ. BLDG



8 SCALE: 3"=1'-0"
TYPICAL HOLD DOWN



5 SCALE: 1 1/2"=1'-0"
FOUNDATION PAD @ MODLINE

REGISTERED PROFESSIONAL ENGINEER JAMES T. SHIPMAN No. S605 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL. 04 16 14 77 AC FLR 88 14 DATE JUL 10 1996

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 01-112222 DATE AUG 30 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT No. C-2959 REN. 9-30-95 STATE OF CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER JAMES T. SHIPMAN No. 5605 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1998				IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES Pc 213 AC FLR 55 88 DATE 3-25-99

MODTECH INC.

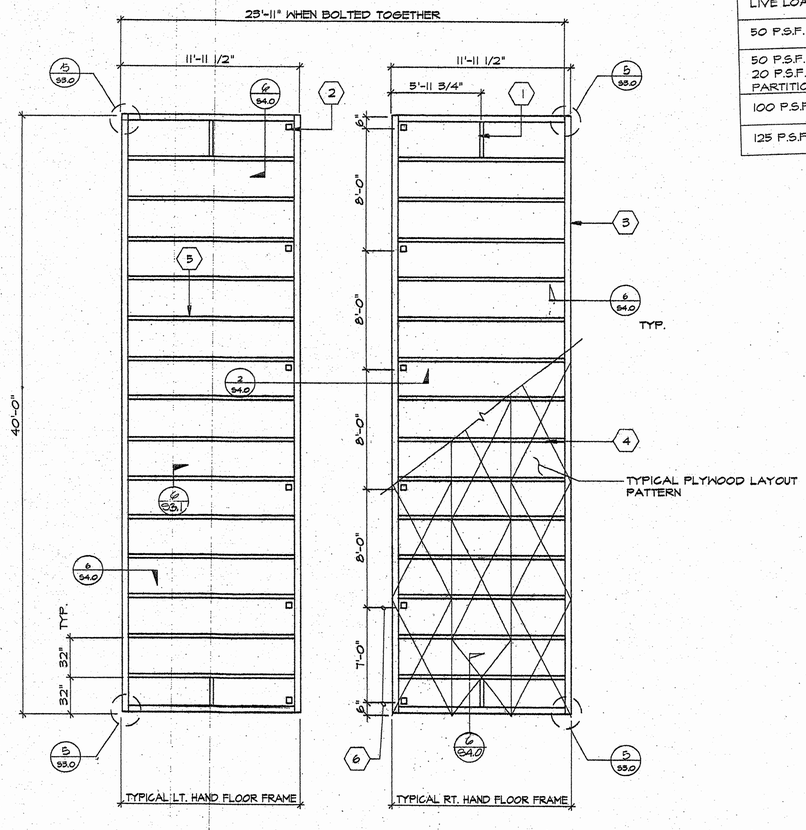
JOB NO. 1967

PORTION 3
4012-061
STKP-18 CLS3.007

DRAWN BY CC
DATE
CHECKED BY
DATE

FOUNDATION DETAILS F1.1

PC 1



FLOOR JOIST TABLE

LIVE LOAD	∫ 6 3/8"X2 1/2"X12GA.
50 P.S.F.	48" O.C.
50 P.S.F. W/ 20 P.S.F. PARTITIONS	32" O.C.
100 P.S.F.	24" O.C.
125 P.S.F.	16" O.C.

NOTES

1. ∫ 6 3/8 X 2 1/2 X 12GA. BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
2. 5" Φ HAND HOLES AT BOLT BM TO BM (12 PLACES)
3. C 7X9.8 PERIMETER CHANNEL (TYPICAL)
4. PLYWOOD FLOOR SHEATHING: APA PS 1-83 1 1/8" THICK, STURD-I-FLOOR W/48" O.C. SPAN RATING. ATTACHED W/#10 X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME, AEROSMITH AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 12" O.C. FIELD TO JOIST. (TYPICAL)
5. 6 3/8 X 2 1/2 X 12GA. FLOOR PURLIN @ 32" O.C.
6. TYPICAL BOLT HOLE LOCATION (SEE FOUND. DETAILS) 2/S4.0

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL # 10-114 AC FLR DATE JUL 10 2014

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL 01-112222 DATE AUG 30 2011

NOTE:
FOR CONCRETE FOUNDATIONS SEE SHT. FA1.0 FOR LOCATION OF FLR. FRAME FOUNDATION ANCHOR PLATES. SEE DETAIL 12/S3.1

FLOOR FRAMING PLAN

SCALE 1/4"=1'-0"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		REGISTERED PROFESSIONAL ENGINEER JAMES R. BRUMBAUGH No. 5023 STRUCTURAL STATE OF CALIFORNIA EXPIRES 6-30-15				IDENTIFICATION STAMP Department of General Services Office of the State Architect MAY 24 1993 Structural Safety Section Appl. # Reckchecked By PL 243 1480

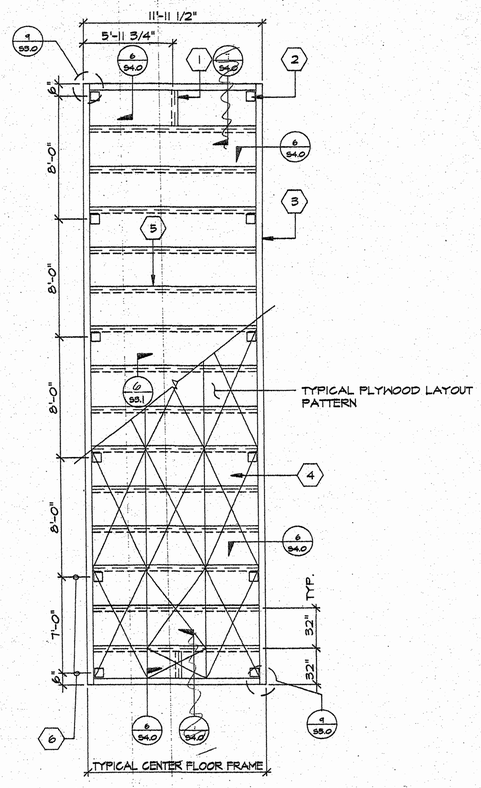
MODTECH INC.

JOB #

PORTION 3
4012-061
STKP-12 CLSS.007

DRAWN BY CC
DATE
CHECKED BY
DATE
70#LL

FLOOR FRAMING PLAN S1.0



FLOOR JOIST TABLE

LIVE LOAD	∫ 6 3/8"X2 1/2"X12GA.
50 P.S.F.	48" O.C.
50 P.S.F. W/ 20 P.S.F. PARTITIONS	32" O.C.
100 P.S.F.	24" O.C.
125 P.S.F.	16" O.C.

50 PSF FLR LL + 20 PSF PARTITIONS

NOTES

1. 6 3/8"x2 1/2"x12GA "L" BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
2. 5" ø HAND HOLES AT BOLT BM TO BM (12 PLACES)
3. C 7X9.8 PERIMETER CHANNEL (TYPICAL)
4. PLYWOOD FLOOR SHEATHING: APA PS 1-83 1 1/8" THICK, STURD-I-FLOOR W/48" O.C. SPAN RATING. ATTACHED W/#10 X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME, AEROSMITH AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 12" O.C. FIELD TO JOIST. (TYPICAL)
5. 6 3/8" x 2 1/2" x 12GA. "L" FLOOR JOIST
6. TYPICAL BOLT HOLE LOCATION (SEE FOUND. DETAILS)

GENERAL NOTES

A. FOR L.HAND & R.HAND FRAME SEE S1.0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 1 6 1 4
AC FLS SS
DATE JUL 19 1994

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-112222
AC FLS SS
DATE AUG 30 2011

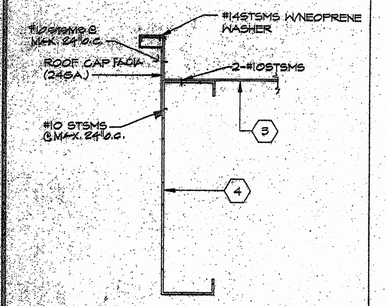
ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT ... STATE OF CALIFORNIA ... EXPIRATION DATE: 9-30-95		REGISTERED PROFESSIONAL ENGINEER ... No. 24002 ... STATE OF CALIFORNIA ... LICENSE EXPIRES 6-30-1995				

MODTECH INC.

JOB NO. 1967
70# LL
PORTION 3
4912-061
STKP-18 CL88.007

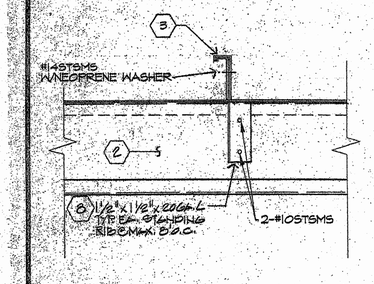
DRAWN BY
DATE 4/94
CHECKED BY
DATE

FLOOR FRAMING PLAN S1.1



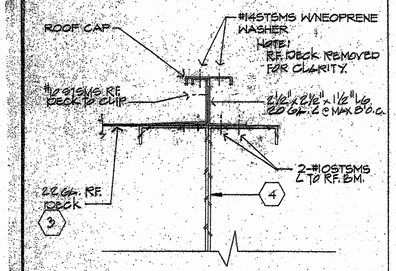
C ROOF STRAP @ SIDWALL

SCALE 3"=1'-0"



D ROOF STRAP

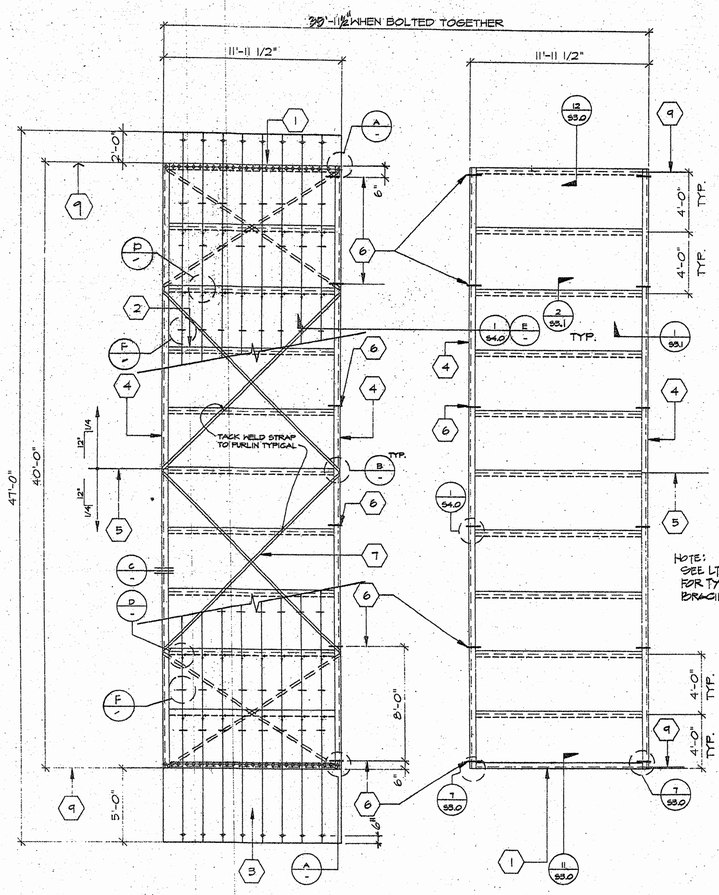
SCALE 3"=1'-0"



E ROOF CAP @ MODLINE

SCALE NTS

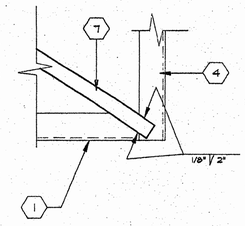
REAR



LT HAND FRAME

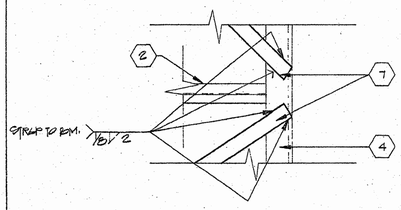
RT HAND FRAME

FRONT



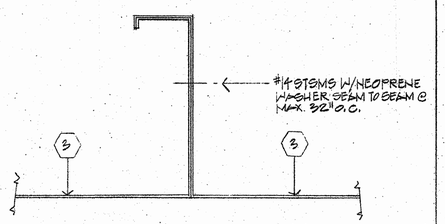
A CROSS BRACING @ END WALL

SCALE 1/2"=1'-0"



B CROSS BRACING @ SIDE WALL

SCALE 1/2"=1'-0"



F CONNECTION @ RF. DECK STANDING SEAM

NOTE

1. C 14 X 12GA. ☐ HEADER
2. 6"X2 1/2X14GA. ⌐ @ 48" O.C. (TYP.)
3. 22GA. STANDING SEAM ROOFING ATTACH ROOFING TO ROOF BEAM W/#14X3/8" STSMS WITH NEOPRENE WASHERS.
4. TAPERED ROOF BEAM 10GA. ☐ SEE 7/S3.1
5. RIDGE-LINE
6. 11/16ϕ DRILL SEE DETAIL 1/S4.0
7. 2"x20GA. STRAP CROSS BRACING TACK. WELD TO EA. PURLIN.
8. 1½"x1½"x 20 GA. L CUT& LEG FOR ROOF DECK. TYP. EA. PURLIN @ MAX. 8'O.C.
9. #14 STSMS W/NEOPRENE WASHER @ MAX. 8'O.C.

IDENTIFICATION STAMP OFFICE OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL # 01-112222 BC FLS ACCS DATE JUL 19 2001

IDENTIFICATION STAMP OFFICE OF THE STATE ARCHITECT APPL # 01-112222 BY DATE AUG 30 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY

MODTECH INC.

JOB # 1964

DRAWN BY

DATE 4/21/94

CHECKED BY

DATE

CLASS LEASING

PORTION 3

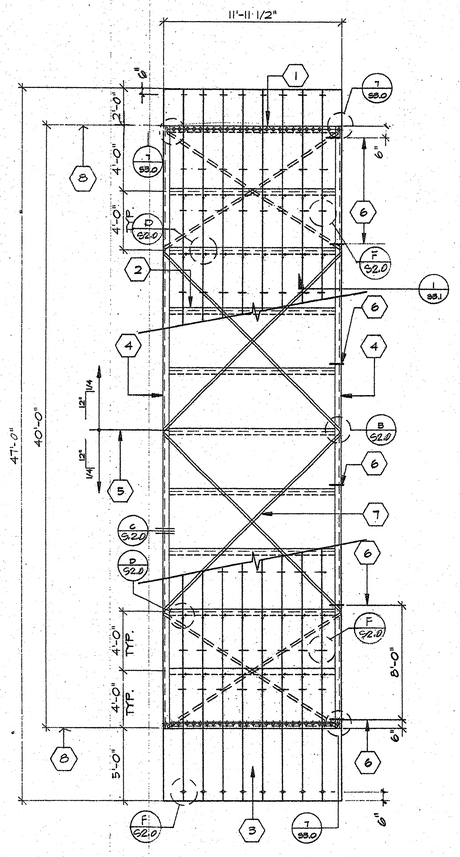
4012-061

STKP-12 CL33.007

ROOF FRAMING PLAN S2.0

PC 1

REAR



CENTER UNIT

FRONT

NOTE

1. C 14 X 12GA. ⊏ HEADER
2. 6"X2 1/2X14GA. AT 48" O.C. (TYP.)
3. 22GA. STANDING SEAM ROOFING ATTACH ROOFING TO ROOF BEAM W/#14X3/8" STSMS WITH NEOPRENE WASHERS.
4. TAPERED ROOF BEAM 10GA. ⊏ SEE 7/S3.1
5. RIDGE-LINE
6. 11/16ø DRILL SEE DETAIL 1/S4.0
7. 2"X20GA. STRAP CROSS BRACING TACK WELD TO EA. PURLIN
8. #14 GTSMS W/NEOPREME WASHER TO ROOF HEADER @ Max. 8'0.C.

ROOF FRAMING PLAN

SCALE 1/4"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. 01-112222
AC. ____ PLS ____
DATE JUL 18 1994

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 01-112222
AC. ____
DATE AUG 30 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY

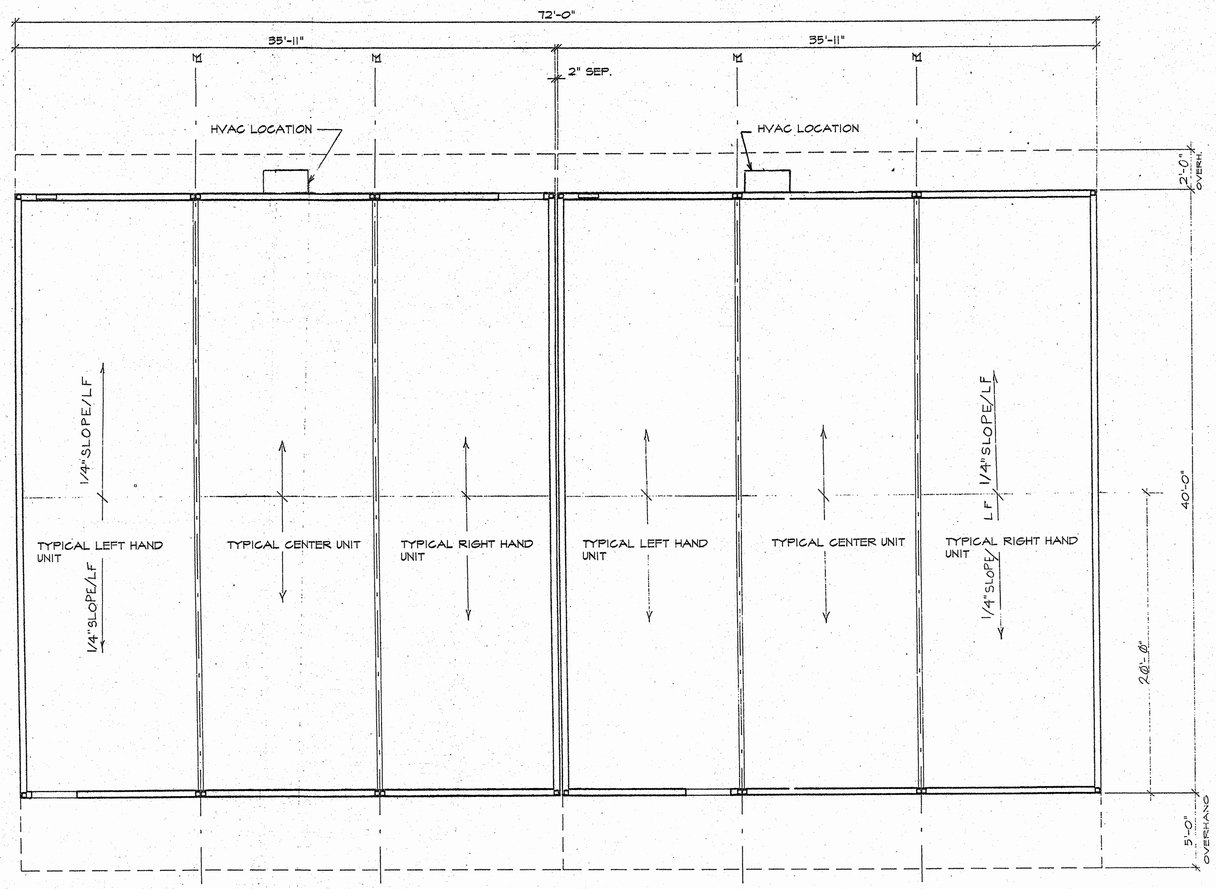
MODTECH INC.

JOB # 1964

DRAWN BY:
DATE 5/15/94
CHECKED BY:
DATE

CLASS LEASING
PORTION 3
4012-061
STK2-12 CL22.007

ROOF FRAMING PLAN S2



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01-112222
AC
DATE AUG 30 2011

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 8 16 14
AC FLS
DATE JUL 10 1996

LICENSED ARCHITECT
ROBERT L. SHEPHERD
No. C 23501
REN. 8-30-96
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
ROBERT L. SHEPHERD
No. 3602
ELECTRICAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-1996

MODTECH INC.

JOB NO. 1967

CLASS LEASING

PORTION 3

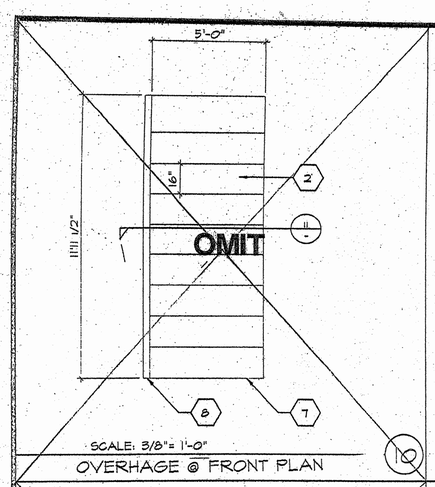
4012-061

STKP-12 CLSS.007

DRAWN BY CC
DATE 4/25 4
CHECKED BY
DATE

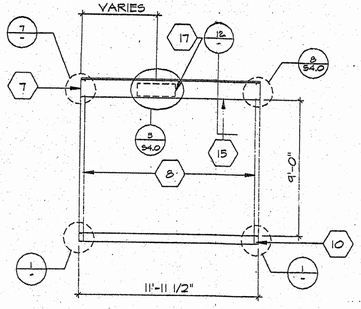
OVERALL ROOF LAYOUT

S2.2



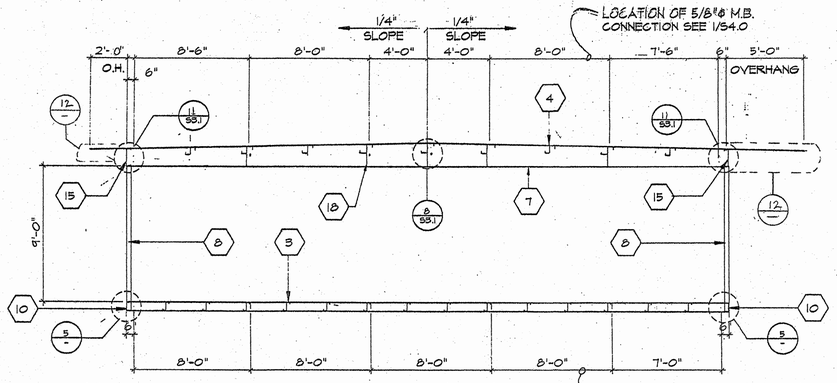
SCALE: 3/8"= 1'-0"

OVERHAGE @ FRONT PLAN — 10



A

SECTION @ ENDWALL



B

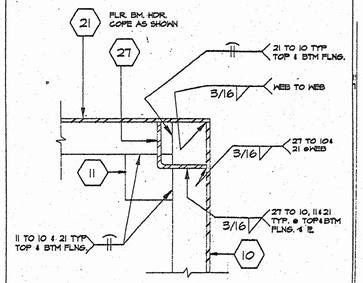
SECTION @ SIDEWALL

NOTES

1. EN @ PLYWOOD EDGES
2. 22GA. STANDING SEAM ROOF
3. 6 3/8"X2 1/2"X12GA. FLR. JOIST 6/S3.1
4. 6X2 1/2"X14GA. ROOF PURLIN 2/S3.1
5. NOT USED
6. NOT USED
7. [10 GA. TAPERED ROOF BEAM (SEE 1, OR 7/S3.1 REFER TO RF. FRAMING PLA
8. 3 1/2"X3 1/2"X1/4" COLUMN
9. BACK-UP PLATE MIN. 10 GA.
10. [TX9.8 FLOOR CHANNEL
11. 3 1/2"X3 1/2"X1/4" STEEL PLATE WELDE FLUSH TO TOP AND BOTTOM OF CHANN FLANGES
12. NOT USED
13. 3½"x3½"x¼"L
14. NOT USED
15. [14"X3 1/2"X10GA. HEADER (SEE 3/S3.1)
16. NOT USED
17. LOCATION OF HVAC
18. 1/4" FULL DEPTH STIFFNER PLATE AT 8'-0" O.C. U.N.O. ALIGN WITH PURLIN
19. NOT USED
20. NOT USED
21. [TX9.8 FLOOR HEADER
22. NOT USED
23. NOT USED
24. NOT USED
25. NOT USED
26. NOT USED
27. 3 1/2"X3 1/2"X1/4" TUBE STEEL CUT TO F FLOOR BEAM
28. NOT USED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 0 1 6 1 4
AC. FLS
DATE JUL 1 0 1996

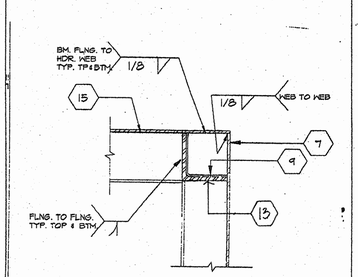
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01- 112222
ACS FLS SS
DATE AUG 3 0 2011



NOTE: SEE DETAIL 15/S3.1 FOR ANCHOR PL @ CONCRETE FOUNDATION

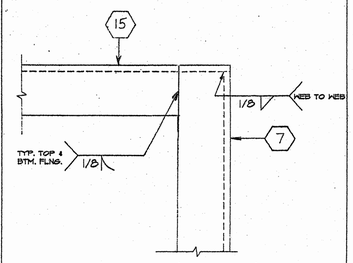
SCALE: 3"=1'

STIFFENER SECTION @ FLOOR — 8



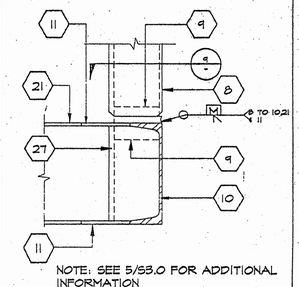
SCALE: 3"=1'

STIFFENER SECTION @ REAR — 6



SCALE: 3"=1'

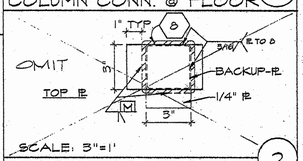
PLAN @ ROOF OVERHANG — 4



NOTE: SEE 5/S3.0 FOR ADDITIONAL INFORMATION

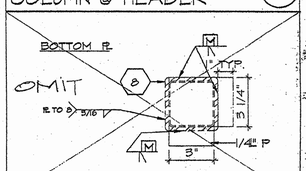
SCALE: 3"=1'

COLUMN CONN. @ FLOOR — 1



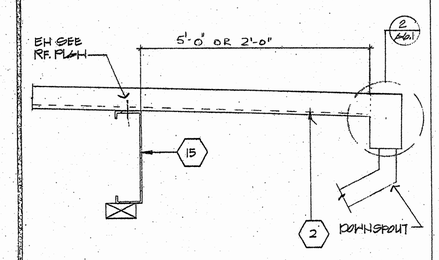
SCALE: 3"=1'

COLUMN @ HEADER — 2



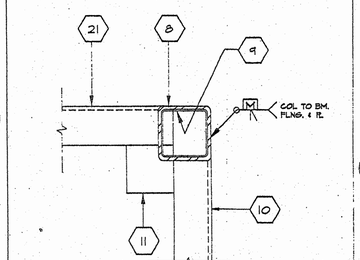
SCALE: 3"=1'

COLUMN @ HEADER — 3



SCALE: N.T.S.

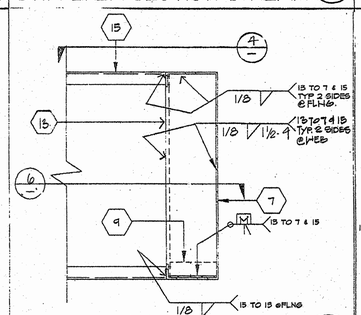
OVERHANG @ REAR — 12



SEE 8/S3.0 FOR WELDING

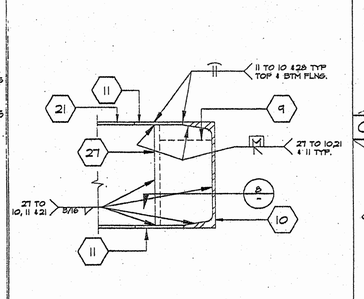
SCALE: 3"=1'

COLUMN @ FLOOR — 9



SCALE: 3"=1'

COLUMN CONN. @ REAR — 7



SCALE: 3"=1'

COLUMN CONN. @ FLOOR — 5

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
		LICENSE EXPIRES 6-30-1998				

MODTECH INC,

JOB NO. 1967

CLASS LEASING

PORTION 8

4018-051

STKP-12 CL88.007

DRAWN BY

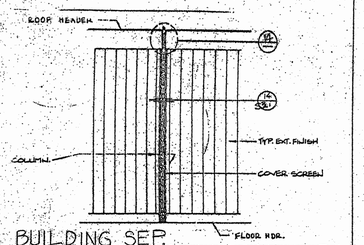
DATE 4/

CHECKED B

DATE

STRUCTUAL ELEVATIONS AND DETAILS — S8

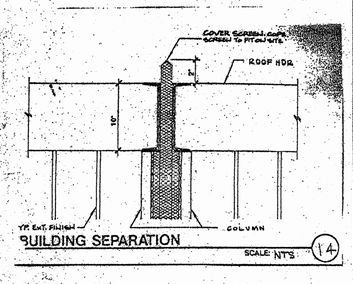
PC 1



BUILDING SEP.

SCALE: NTS

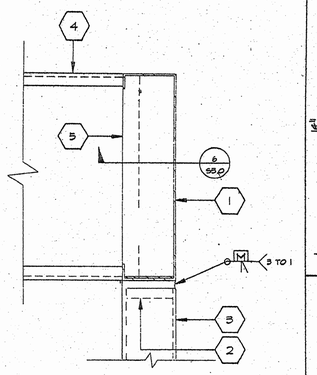
13



BUILDING SEPARATION

SCALE: NTS

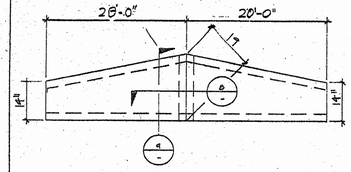
14



SCALE: 3"=1'

COLUMN CONN. @ ROOF

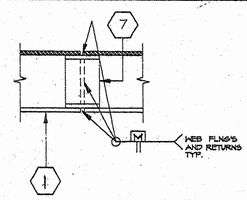
11



SCALE: NTS

FASCIA @ SIDEWALL

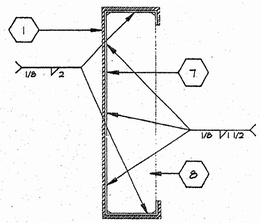
7



SCALE: 3"=1'

BEAM SPLICE

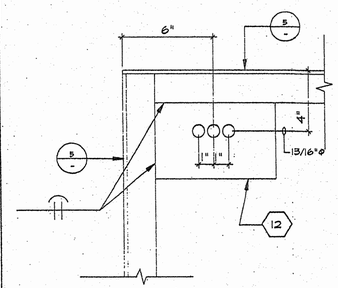
8



SCALE: 3"=1'

BEAM SPLICE W/STIFFENER

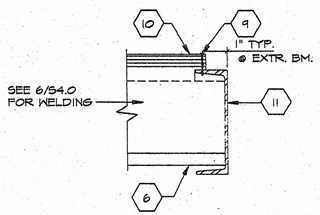
9



SCALE: 3"=1'

ANCHOR PLATE @ CONC. FOUND.

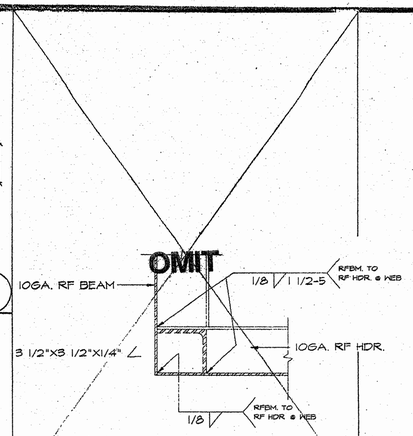
12



SCALE: 3"=1'

FLOOR @ FLOOR BEAM

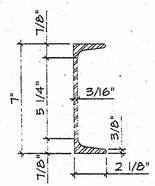
10



SCALE: 3"=1'

STIFFENER SECTION

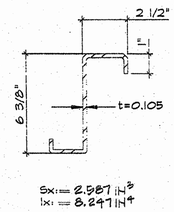
4



SCALE: 3"=1'

FLOOR BEAM C7X9.8

5



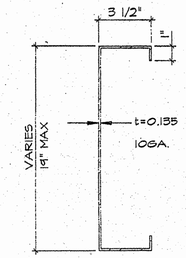
Sx:= 2.987 in^3
Ix:= 8.297 in^4

ALTERNATE "Z" 12GA. SAME PHYSICAL PROPERTIES & DIMENSIONS

SCALE: 3"=1'

FLOOR JOIST

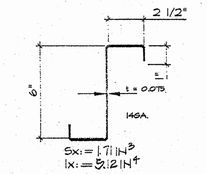
6



SCALE: 3"=1'

TAPERED ROOF BEAM

1

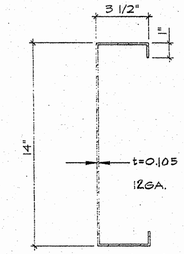


Sx:= 1.71 in^3
Ix:= 5.12 in^4

SCALE: 3"=1'

ROOF PURLIN

2



Sx 7.0 in.^{3}
Ix 69.002 in.^{4}

SCALE: 3"=1'

ROOF HEADER

3

NOTES

1. 10GA. TAPERED RF. BM. SEE 7/S3.1
2. BACK-UP PLATE MIN. 10GA.
3. 3 1/2"X3 1/2"X1/4" COLUMN
4. [14"X10GA. RF. HDR. SEE 3/S3.1
5. 3 1/2"X3 1/2"X1/4" TUBE COPE TO FIT RF. I
6. FLOOR JOIST SEE 6/S3.1
7. 10GA. BENT PLATE BACK-UP
8. 1/4" STIFFENER PL
9. #10 STSMS @ 6" O.C. (SEE S1.0)
10. PLYWOOD FLR. SHEATHING
11. FLOOR BEAM SEE 5/S3.1
12. 5"X8"X1/4" PL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPR. 6 16 14
AC FLS
DATE JUN 30 2014

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPL.01- 112222
ACN FLS
DATE AUG 30 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT MICHAEL D. CHRIST RENEWAL 9-30-15 STATE OF CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER JAMES T. REGAN No. 3002 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1998				

MODTECH INC,

JOB NO. 1967

© MODTECH INC. 1994

CLASS LEASING

PORTION 3

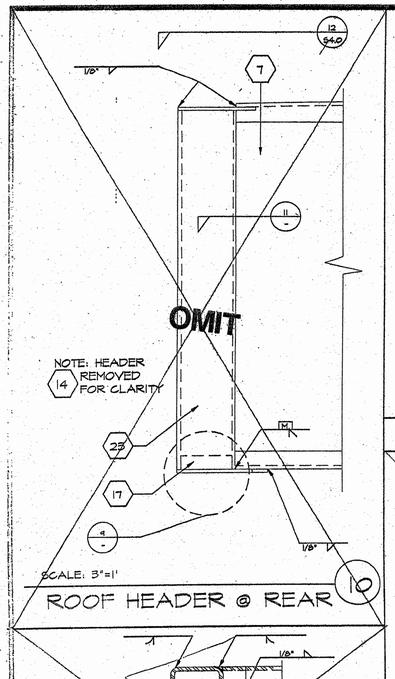
4012-081

BTKP-12 CL53.007

DRAWN BY CC
DATE 4/21/14
CHECKED BY
DATE

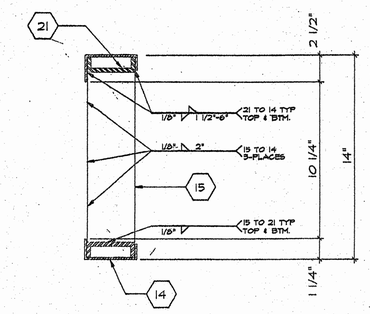
STRUCTUAL DETAILS S3

PC 1



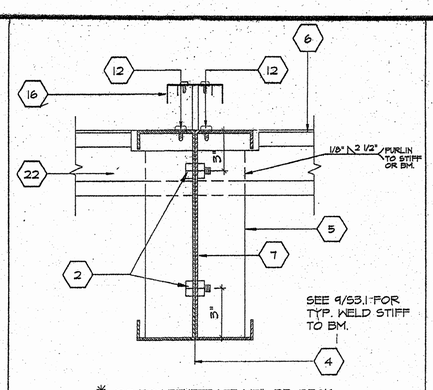
SCALE: 3"=1'

ROOF HEADER @ REAR 10



SCALE: 3"=1'

7 MECH. DUCT OPENING IN HEADER 4



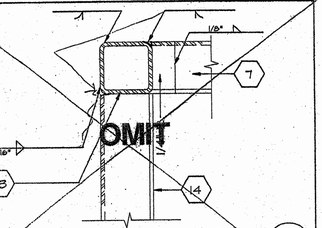
* DO NOT PENETRATE MT'L RF. DECK

SCALE: 3"=1'

ROOFING @ MODLINE 1

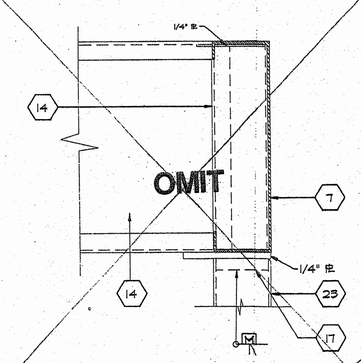
NOTES

1. NOT USED
2. 5/8" M.B. A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) @ 8' O.C.
3. E.N.
4. MODULE JOINT
5. 1/4" @ 8' O.C. FULL DEPTH STIFFENER PLATE (SEE 9/S3.1)
6. STANDING ROOF SEAM (SEE A2.0)
7. ROOF BEAM (SEE STRUCTURAL) SEE 1/S3.1 & 7/S3.1
8. PLYWOOD FLOOR SHEATHING
9. FLOOR JOIST 6/S3.1
10. FLOOR BEAM (SEE STRUCTURAL 5/S3.1)
11. HAND-HOLE @ BOLT LOCATION
12. #14 ST5MS @ 16" O.C.
13. 3 1/2"X3 1/2"X1/4" STEEL TUBE COLUMN
14. ROOF HEADER (SEE STRUCTURAL 3/S3.1)
15. 1/4" STIFFENER PLANE SEE 9/S3.1 FOR TYP. WELD
16. CAP CLOSURE @ MODLINE 26GA. GALV. W/#10 ST5MS AT 48" O.C. W/NEOPRENE WASHER TO RIB SET BOTH SIDES OF CAP IN SEALANT
17. 10GA. BACK-UP PL
18. NOT USED
19. NOT USED
20. 2"X2"X3/16" ∠
21. 3 1/4"X1"X12 Ga. □ X 42 1/4" CHANNEL TOP & BOTTOM CENTER ON OPENING
22. ROOF PURLIN SEE 2/S3.1
23. TUBE STEEL (SEE NOTE #13)



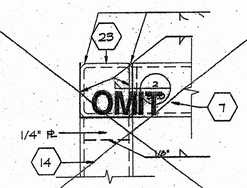
SCALE: 3"=1'

COLUMN SECTION 11



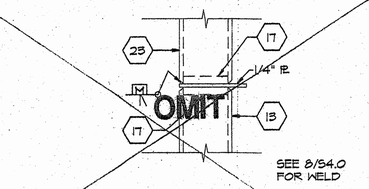
SCALE: 3"=1'

ROOF BEAM @ SIDEWALL 8



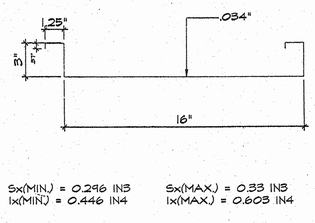
SCALE: 3"=1'

COLUMN CAP PLATE 12



SCALE: 3"=1'

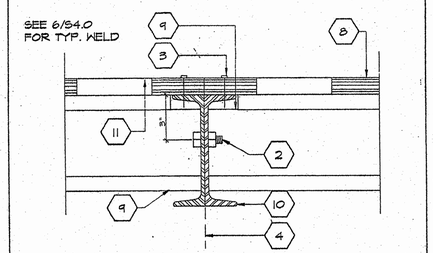
COLUMN CONNECTION 9



Sx(MIN.) = 0.296 IN3 Sx(MAX.) = 0.33 IN3
Ix(MIN) = 0.446 IN4 Ix(MAX.) = 0.603 IN4

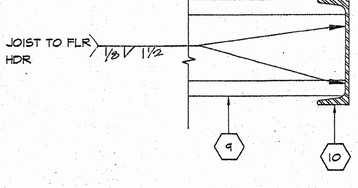
SCALE: 3"=1'-0"

ROOF PAN (22GA.) 5



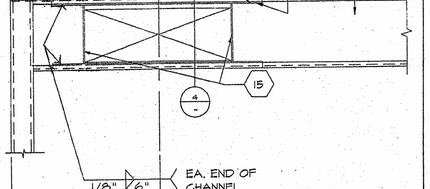
SCALE: 3"=1'

MODULE JOINT @ FLR. 12'-0" 2



SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM 6



SCALE: 1"=1'

ELEVATION-OPENING 3

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL # 1 [illegible] AC RS DATE 10 1994

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL 01- 112222 ACC DATE AUG 30 2011 FLR BS

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT No. C-[illegible] STATE OF CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No. 3602 CIVIL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1998				

MODTECH INC,

JOB NO. 1967

CLASS LEASING

PORTION 3

4012-061

STKP-12 CL.69.007

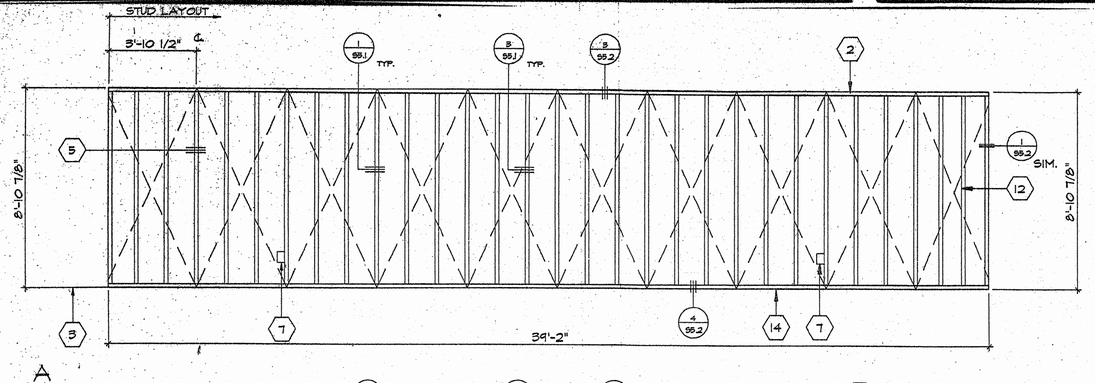
DRAWN BY CC

DATE 4/21/94

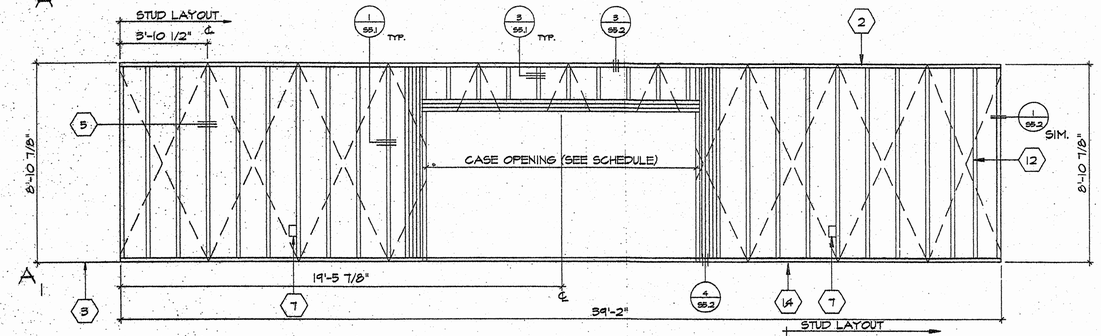
CHECKED BY

DATE

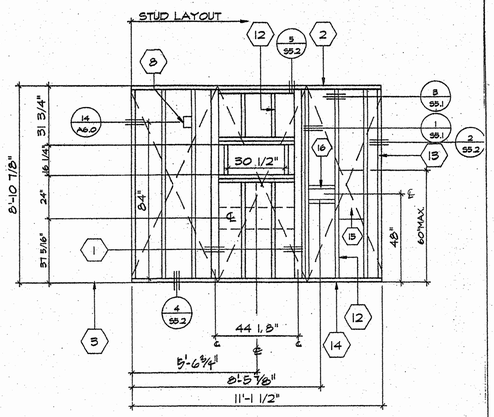
STRUCTUAL DETAILS S4.0



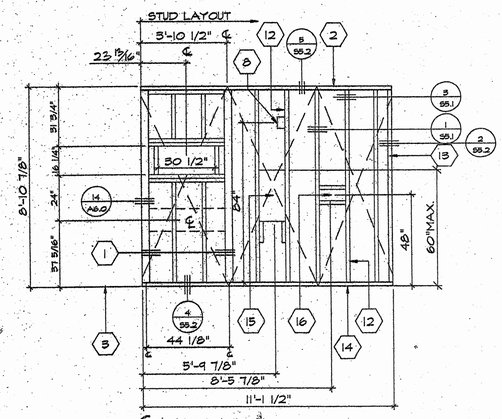
A



A1

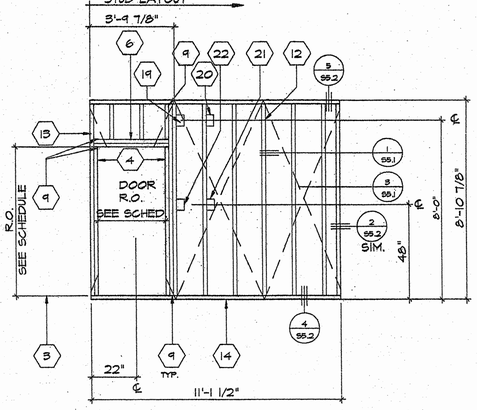


B



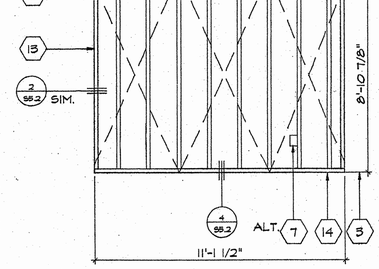
C AS SHOWN

C1 OPPOSITE HD.

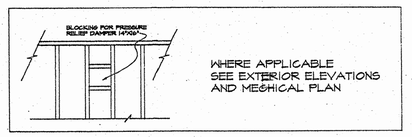


D AS SHOWN

D1 OPPOSITE HAND



E



WHERE APPLICABLE SEE EXTERIOR ELEVATIONS AND MECHICAL PLAN

SCALE 3/8"=1'

NOTES

1. 4X4 POST (ALTERNATE)
2. 2X4 TOP PLATE
3. FINISH FLOOR
4. 2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANITY SHT 55.1)
5. PRESSURE DAMPER
6. HEADER (SEE SCHEDULE 95.1)
7. DUPLEX OUTLET BOX
8. WINDOW SILL PLATE (SEE SCHEDULE 95.1)
9. A 34 CLIPS @ HEADER & SILL TO FULL HGT. STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES
10. NOT USED
11. NOT USED
12. 2X4 STUD @ 16" O.C. TYPICAL
13. 2X4 NAILER TYPICAL @ EACH END
14. 2X4 SILL PLATE
15. FRAME FOR ELECTRICAL PANEL
16. THERMOSTAT LOCATION 48 BOX
17. FULL HGT. STUDS AND 1-2X4 TRIMMER (SEE WINDOW SECHEDULE FOR JAMB STUDS REQUIRED SHT. 55.1)
18. CLOCK OUTLET +84 AFF
19. "J" BOX FOR EXTERIOR LIGHT FIXTURE (TO EXTERIOR) (SEE ELECTRICAL)
20. FIRE HORN (TO EXTERIOR)
21. FIRE PULL STATION (TO INTERIOR)
22. LIGHT SWITCH BOX

IDENTIFICATION STAMP OFFICE OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL # 1 0 1 4 FLS AC DATE JUL 19 1994

IDENTIFICATION STAMP OFFICE OF THE STATE ARCHITECT APPL 01- 112222 ACC DATE AUG 3 0 2011 FLS BS

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT JAMES T. BERRY No. 3602 STATE OF CALIFORNIA EXPIRES 6-30-96		REGISTERED PROFESSIONAL ENGINEER JAMES T. BERRY No. 3602 STRUCTURAL STATE OF CALIFORNIA LICENSE EXPIRES 6-30-1995				

MODTECH INC,

JOB NO. 1967

DRAWN BY CC

DATE 4/27/94

CHECKED BY

DATE

CLASS LEASING

PORTION 3

4012-061

STKP-12 CL88.007

WALL FRAMING

S5.0

OPENING SCHEDULE

OPENING	HDR.	SILL	JAMB	ROUGH OPENING HEIGHT	ROUGH OPENING WIDTH
3068	(2) 2X4	(2) 2X4	2-2X4 *	81 1/4"	35"
CASE OPENG	(3) 2X4		(4) 2X4 *	81 1/4"	144 1/8"
(DF.)			FULL HGT.		

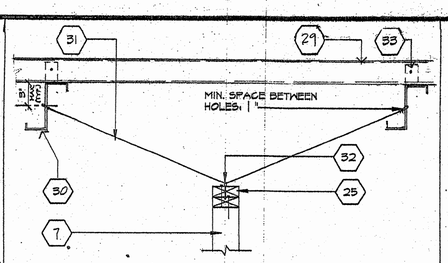
* FULL HEIGHT STUDS

NAILING SCHEDULE

CONNECTION	NAILING
1. JOIST TO SILL OR GIRDER, TOENAIL	3-8d
2. Bridging to joist, toenail each end	2-8d
3. 1" x 6" subfloor or less to each joist, face nail	2-8d
4. Wider than 1"x 6" subfloor to each joist, face nail	3-8d
5. 2" subfloor to joist or girder blind and face nail	2-16d
6. Sole plate to joist or blocking, face nail	16d at 16"o.c.
7. Top plate to stud, end nail	2-16d
8. Stud to sole plate	4-8d, or toenail 2-16d, endnail
9. Double Studs, face nail	16d at 24"o.c.
10. doubled top plates, face nail	16d at 16"o.c.
11. Top plates, laps and intersections, face nail	2-16d
12. Continuous header, two pieces	16d at 16"o.c. along each edge
13. Ceiling joists to plate, toenail	3-8d
14. Continuous header to stud, toenail	4-8d
15. Ceiling joists, laps over partitions, face nail	8-16d
16. Ceiling joists to parallel rafters, face nail	3-16d
17. Rafter to plate, toenail	3-8d
18. 1" brace to each stud and plate, face nail	2-8d
19. 1" x 6" sheathing or less to each bearing, face nail	2-8d
20. Wider than 1" x 8" sheathing to each bearing, face nail	3-8d
21. Built-up corner studs	staggered 2-20d at 16d at 24"o.c.
22. Built-up girder and beams	20d at 32" o.c. at top and bottom and end and at each splice.
23. 2" planks	2-16d at each bearing
24. Plywood and particleboard	
Subfloor, roof and wall sheathing (to framing)	
1/2" and less	6d
19/32" - 3/4"	8d or 8d
8d	
7/8" - 1"	8d
1 1/8"-1 1/4"	10d or 10d
8d	
Combination Subfloor-underlayment (to framing)	
3/4" and less	6d
7/8" - 1"	8d
1 1/8"-1 1/4"	10d or 10d
8d	
25. Panel Siding (to framing)	
1/2" or less	6d
5/8"	8d

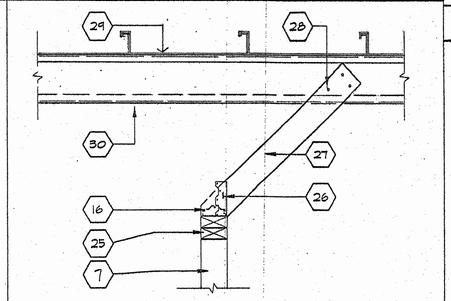
NOTE: All nail shall be box nails unless otherwise noted.

12



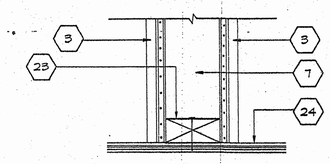
SCALE: 1-1/2"=1'

PARALLEL PARTITION CONN. 8



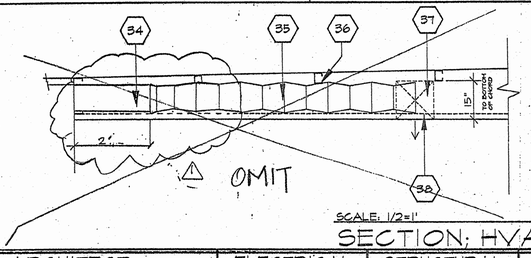
SCALE: 1-1/2"=1'

PERPENDICULAR PARTITION CONN. 9



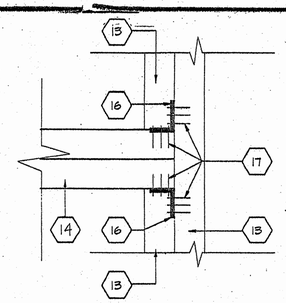
SCALE: 3"=1'

INT. PARTITION CONN. @ FLOOR 10



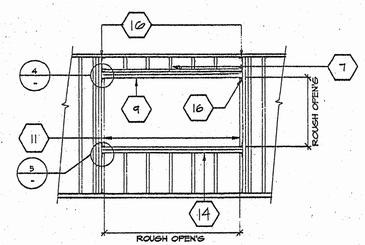
SCALE: 1/2"=1'

SECTION; HVAC IN ROOF 11



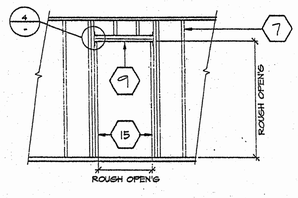
SCALE: 3"=1'

WINDOW SILL @ JAMB 5



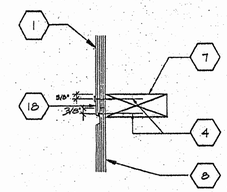
SCALE: 3"=1'

TYP. WINDOW FRAMING 6



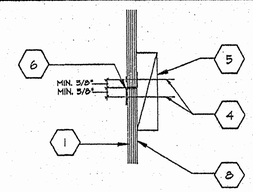
SCALE: 3"=1'

TYP. DOOR FRAMING 7



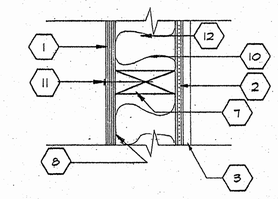
SCALE: 3"=1'

@ VERT. PLYWOOD EDGES 1



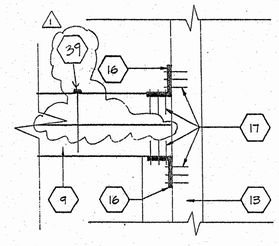
SCALE: 3"=1'

DETAIL @ HORIZ. PLYWOOD JOINTS 2



SCALE: 3"=1'

SECTION @ STUD 3



SCALE: 3"=1'

HEADER DETAIL 4

NOTES

1. EXTERIOR PLYWOOD SIDING - SHEATHING NAIL W/GALV. BOX NAILS -8d @ 6" O.C. EDGES, 8d @ 12" O.C. IN FIEL
2. GYP. BOARD
3. TYP. INTERIOR FINISH-SEE FINISH SCHEDULE A-5.0
4. E.N.
5. 2X4 BLK'G
6. "Z" FLASHING
7. 2X4 @ 16" O.C.
8. WATERPROOF MEMBRANE
9. HEADER (SEE SCHEDULE 55.1)
10. INSULATION (SEE SPECIFICATIONS)
11. 8d ELECTRO GALV. 12" O.C.FN.
12. 2X4 SILL PLATE (BELOW)
13. FULL HEIGHT STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQ'D)
15. 2X4 FULL HEIGHT KING STUDS AND 2X4 TRIMME (SEE SCHEDULE FOR QUANITY)
14. SILL PLATE (SEE SCHEDULE)
16. A 34 CLIPS @ HEADER AND SILL TO FULL HEIGH STUDS AND FULL HEIGHT STUDS TO TOP AND BC PLATES
17. 9GA. 8d 1 1/2" NAILS
18. LAP JOINT
19. 2X4 FLAT FIRE STOP @ CEILING LINE
20. CEILING JOIST ATTACHED TO STUDS W/16d
21. SIMPSON LUP 24 JOIST HANGER EA. CEILING JOIST LEDGER W/4 16d
22. ATTACH GYP. BD. TO STUDS W/6d COOLERS @ 6
23. 2X4 BOTTOM PLATE W/16d @ 16" O.C.
24. PLYWOOD FLOOR
25. 2X4 DBL. TOP PLATE
26. SIMPSON A35 W/8d X 2 1/2"
27. 2X4 BRACE @ 8'-0" O.C. MAX. @ MAX 45°
28. #12 X 2" TYPE A HEX HEAD SCREWS W/WASHER (TYP. OF 3)
29. 22 GA. MT'L RF. DECK
30. ROOF PURLIN
31. ATTACH 12GA. BRACE WIRES TO EYE LAG SCREWS AND TO ROOF PURLINS @8'-0" O.C. ENDS TO HAVE TIGHT WRAPS IN 1-1/2"
32. 1/4ø 2-1/2" EYE LAG SCREW @8'-0" O.C.
33. ATTACH PER ROOF FRAMING PLAN (TYP.)
34. PLENUM
35. DUCTWORK
36. ROOF PURLIN
37. TRANSFER BOX
38. ROOF CHANNEL
39. 16d @16"o.c.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL 8 4 6 1 4 FILE DATE OCT 19 1994

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL 01- 112222

6-29-93

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT GEORGE F. [illegible] No. 11[illegible] REN. 9-30-95 STATE OF CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMMONS No. 5003 Civil Structural STATE OF CALIFORNIA			REVISED 12-8-93 JJ/SO	MAY 24 1993 Structural Safety Section BY PC 2U3 JJ/SO

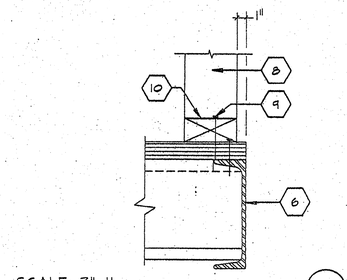
MODTECH INC.

JOB NO. 1967

PORTION 3
4012-051
STKP-12 CL88.007

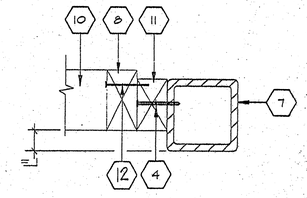
FRAMING DETAILS

S5



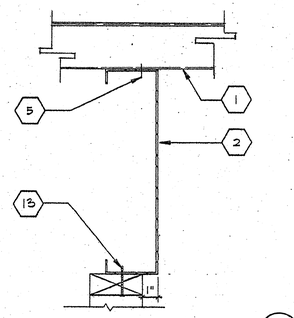
SCALE: 3"=1'

PLATE @ FLOOR (4)



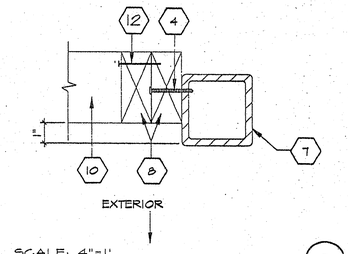
SCALE: 4"=1'

COULUMN @ SIDEWALL (1)



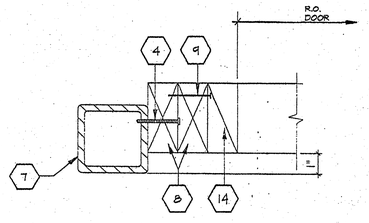
SCALE: 3"=1'

END WALL @ ROOF (5)



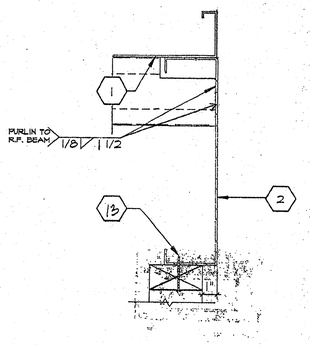
SCALE: 4"=1'

COULUMN @ ENDWALL (2)



SCALE: 4"=1'

COLUMN @ END WALL W/DOOR (6)



SCALE: 3"=1'

ROOF FLASHING @ ROOF BEAM (3)

NOTES

1. 22GA. MT'L ROOF DECK. SEE S2.0
2. [12GA.X 14" HEADER
3. 1 1/2 X1 1/2 X 16GA. ∠
4. #10 S.T.S.M.S @24" O.C.
5. E.N. 22GA. MT'L ROOF TO BEAM (SEE STRUCTURAL. SEE S2.0)
6. FLOOR BEAM (SEE STRUCTURAL)
7. TUBE STEEL COLUMN
8. 2X4 STUD @ 16" O.C. TYP.
9. 16d BOX NAILS @ 8" O.C.
10. 2X4 SILL PLATE
11. 2X TRIMMER @ CORNER
12. 10d @ 24" O.C. (TOX)
13. #10 STSMS @16" O.C.
14. 2X4 TRIM

GENERAL NOTES

1. ALTERNATE: USE 0.145ø SHOT PIN @ SAME SPACING AS #10 STSMS

JAMES T. SIMPSON No. 3602 REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA

LICENSE EXPIRES 6-30-1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL # 1 0 1 1 1 2 2 2 2
AC ___ FLS 12 25
DATE JUL 13 1994

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 01- 112222
AC ___ FLS ___ RS lm
DATE AUG 3 0 2011

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
LICENSED ARCHITECT GEORGE C. CORNELIUS TECHNICIAN NO. C 2958 EXP. 9-30-95 STATE OF CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER No. 3602 STRUCTURAL STATE OF CALIFORNIA				IDENTIFICATION STAMP Department of General Services Division of the State Architect MAY 2 4 1993 Structural Safety Section Initialed By PC 2413

MODTECH INC,

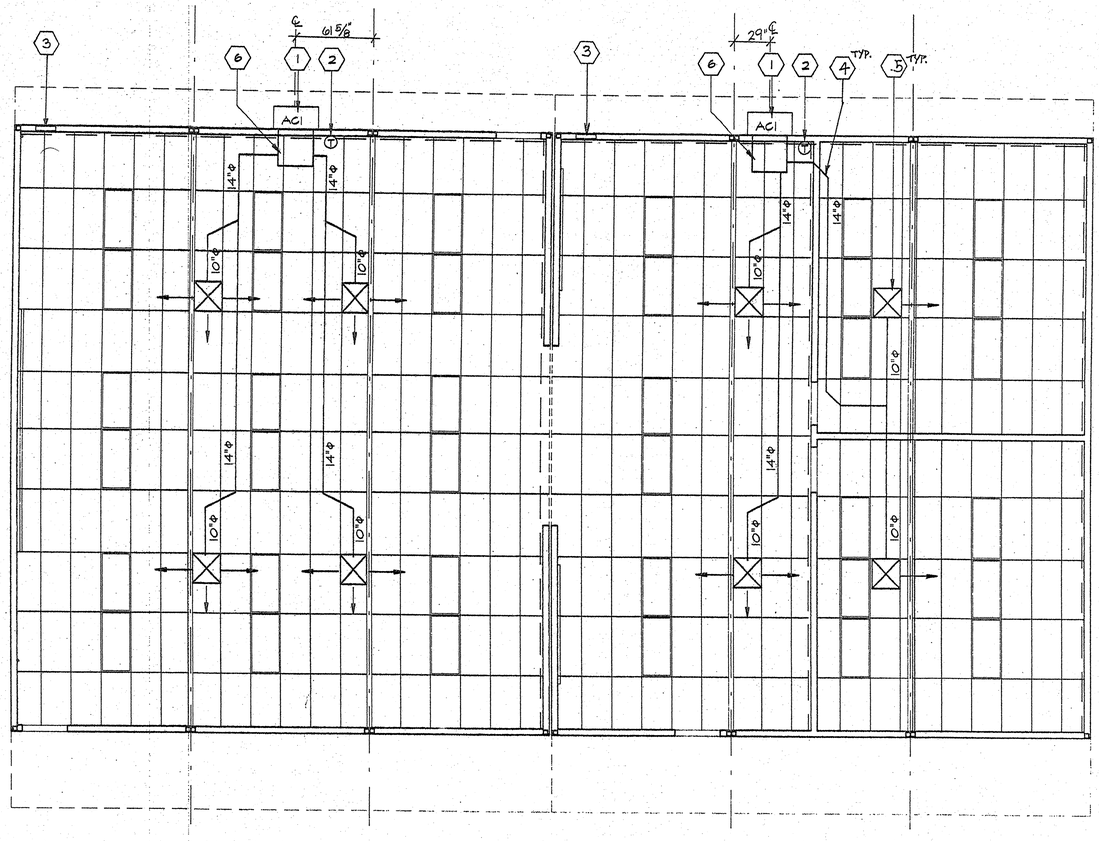
JOB NO. 1967

DRAWN BY
DATE
CHECKED BY
DATE

PORTION 3
4018-061
STKP-18 CLSS.007

FRAMING ELEVATIONS AND DETAILS

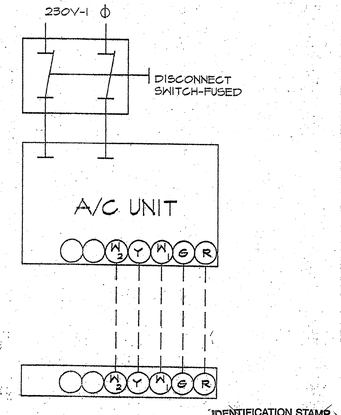
S5



EQUIPMENT SCHEDULE

1. AC1- WALL MOUNTED HEAT PUMP NOMINAL 36,000 BTUH COOL/36,000 BTUH HEAT W/ 5kw HEATER (OPTIONAL) C.L.A. & CALIFORNIA STATE ENERGY APPROVED - 1400 CFM- 208/230v 1 PHASE, MAX. F.L.A. 38 AMPS -WT.515lbs.
2. (T) THERMOSTAT-WHITE ROGERS 1F92
3. PRESSURE DAMPER
4. " " FLEX DUCT (SEE SPECS)
5. 15X15 4W 400CFM SUPPLY AIR GRILLE
6. 10"x30"x2' PLENUM (SEE SPECS)

CONTROL SCHEMATIC



THERMOSTAT:
SUBBASE:

SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 2512 (g) AND TABLE 25-P. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

FOR MECHANICAL DRAWINGS:

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE , Z = 0.4.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGR. AND THE FIELD ENGINEER OF THE OFFICE OF THE STATE ARCHITECT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 01- 112222
AQ RCS
DATE AUG 30 2011

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 01- 112222
ACS FLS SS
DATE AUG 30 2011

LICENSED ARCHITECT
GEORGE C. EDWARDS
No. C-2956
REN. 8-30-95
STATE OF CALIFORNIA

MODTECH INC,

JOB NO. 1967

CLASS LEASING PORTION 3
4012-061
ST KP-12 CLLS.007

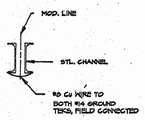
DRAWN BY GC
DATE 4/25/94
CHECKED BY
DATE

MECHANICAL PLAN (HVAC) M1.0

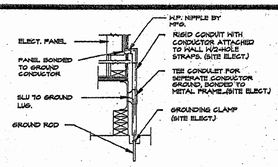
PC 1

LEGEND

- 2'X4' FLUORESCENT LIGHT AND FIXTURE 4-TUBE (SEE SPEC'S)
- EXTERIOR LIGHT FIXTURE
- DUPLEX WALL RECEPTACLE 15-A 125-V 3-WIRE
- THERMOSTAT
- "J" BOX
- 4s JUNCTION BOX FOR FIRE ALARM
- ELECTRICAL PANEL "A" TYPE-B10 12/20
- SWITCH
- PULL STATION

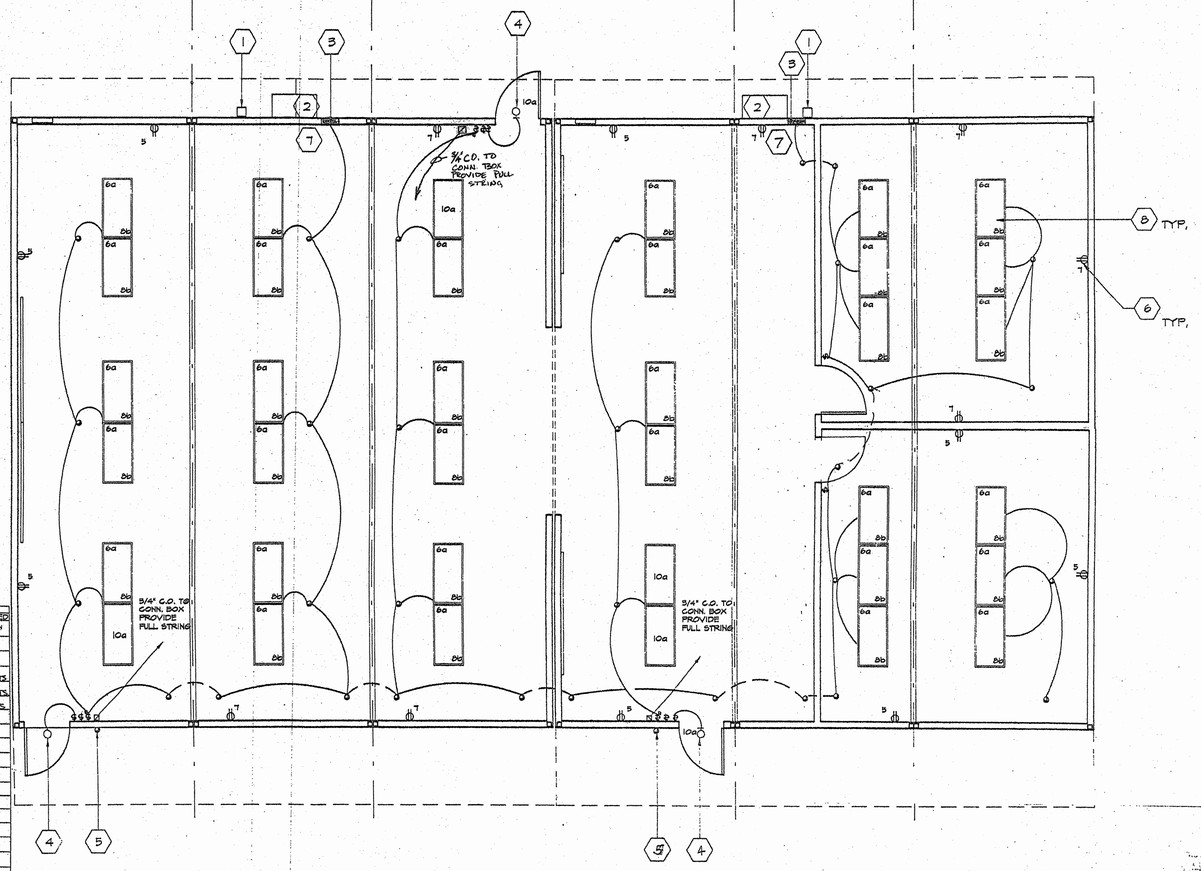


JUMPER @ MOD. LINE



TYPICAL GROUNDING DETAIL

1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 5/8" RD.X8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREES FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP. (BY SITE ELECTRICAL)
2. TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPERATED AT LEAST 6'-0" (MIN). RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
3. PROVIDE EQUIPMENT ANCHORAGE PER TITLE 24, TABLE 2-54
4. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATABLE COMPONENTS.
5. GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR



PANEL DESCRIPTION	MAIN LUGS	NO OF OUTLET	WIRE SIZE	BRKR AMPS	POLES	CIR.	PHASE	CIR.	POLES	BRKR AMPS	NO. OF OUTLET	MATTE	DESCRIPTION
MAIN						1	A	2					
MAIN						3	B	4					
RECEPTS.&LTS	54A	3				5	A	6			8	1280	INT. LIGHTS
RECEPTS	72A	4				7	B	8			8	1280	INT/EXT. OTS.
HVAC	34A			50	2	9	A	10			A	640	INT/EXT. LTS.
HVAC	34A					11	B	12					
						13	A	14					
						15	B	16					
						17	A	18					
						19	B	20					
						21	A	22					
						23	B	24					
						25	A	26					
						27	B	28					
						29	A	30					
						31	B	32					
						33	A	34					
						35	B	36					

PANEL LOCATION: MAIN PANEL 100A — MODEL: 34/42 — BUS RATING 100 — MOUNTING RECESSED

L.C.L. = 10,112
L.C.L. X125% = 12,640
OTHER 1,260
TOTAL 13,900 (578) 58A

NOTES

1. 4/SDP WEATHER PROOF GUTTER BOX +18" (6X6X4)
2. HVAC UNIT (SEE SHT. M-1)
3. ELECTRICAL PANEL "A" TYPE-B10 12/20
4. EXTERIOR LIGHT FIXTURE
5. 4s JUNCTION BOX FOR FIRE ALARM
6. DUPLEX WALL RECEPTACLE 15-A 125-V 3-WIRE
7. CLOCK OUTLET (SEE SPEC'S)
8. 2'X4' FLUORESCENT LIGHT AND FIXTURE 4-TUBE (SEE SPEC'S).

GENERAL NOTES

1. 4s JUNCTION BOX FOR FIRE ALARM PULL STATION
2. DUPLEX OUTLET @+18" UON (SEE SPEC'S)

MOUNTING HEIGHTS

RECEPTS	18"
PORCH LITS	7'-6"
F/A BELL EXTERIOR	8'-6"
F/A PULL STATION	48"
CLOCK OUTLET	7'-6"
RAIN TITE EXT. J-BOX	18" (ABOVE FIN. FL
THERMOSTAT	48" &
MAIN PANEL BOX	5'-0"

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
ACC 4-3-14
AC RLS
DATE 4-30-14

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPL-01- 112222
ACC RLS SS
DATE AUG 30 2011

ELECTRICAL PLAN

SCALE 1/4"-1'-0"

ARCHITECT & ARCHITECTURAL	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
Robert C. Eggebrecht, Arch. No. C-22566, LICENSED ARCHITECT, EXP. 9-30-95, STATE OF CALIFORNIA						

MODTECH INC

JOB NO. 1967

CLASS LEASING

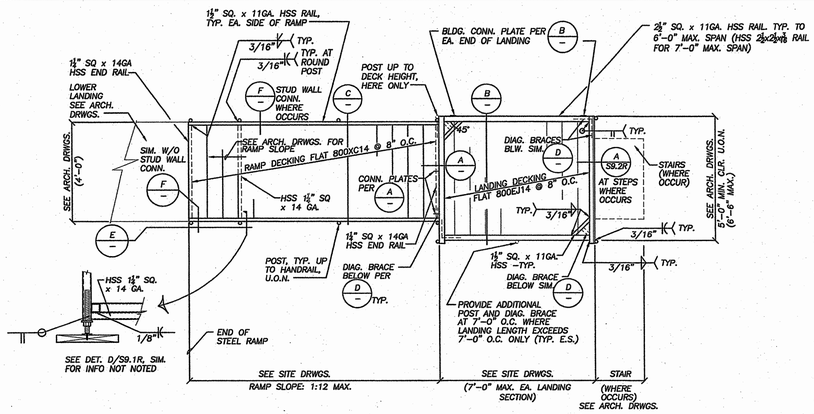
PORTION 3
4012-061
STKP-12 CLLS.007

DRAWN BY: CC
DATE: 4/26.
CHECKED BY
DATE

E1.

STEEL RAMP AND LANDING

CONFIGURATION OF RAMP, LANDING AND STEPS MAY CHANGE FROM FLOOR PLAN SHOWN – SEE ARCH. FLOOR PLAN DRWGS.

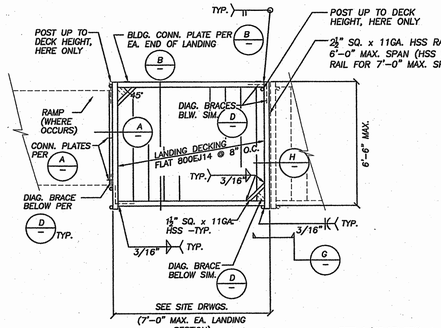


1 S9.1R RAMP AND LANDING FLOOR PLAN

FOR HANDRAIL SEE SHT A-1 EXTENSION SEE DET. 6/S9.1R

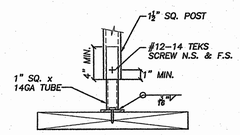
RAMP/LANDING TEST AND INSPECTIONS:

1. WELDING INSPECTION: VISUAL INSPECTION BY DSA PLANT INSPECTOR OF ALL WELDS. ALL WELDERS SHALL BE FULLY CERTIFIED TO A.W.S. STANDARDS.
2. TESTS OF STRUCTURAL STEEL: PROVIDE TEST REPORTS COVERING ALL MEMBERS UTILIZED WHICH VERIFY THE REQUIRED YIELD POINT ELONGATION AND OTHER PHYSICAL PROPERTIES REQUIRED FOR THE ASTM DESIGNATION SPECIFIED.



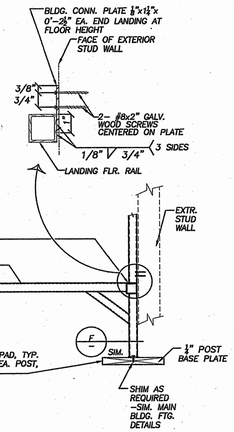
SEE 1/S9.1R FOR INFO. NOT NOTED

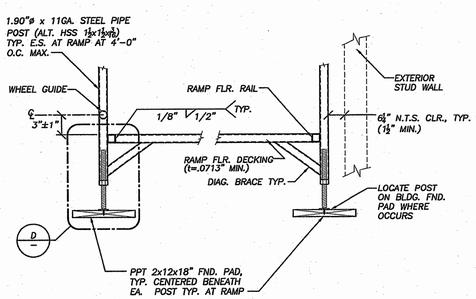
SEE DET. D/S9.1R FOR INFO NOT SHOWN OR NOTED

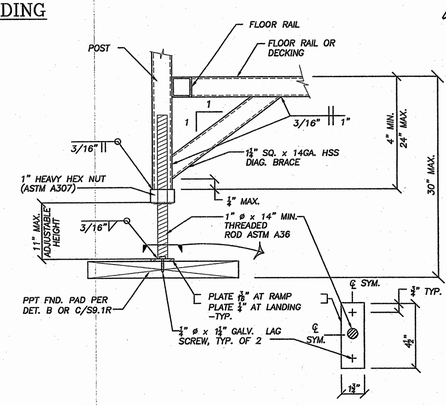


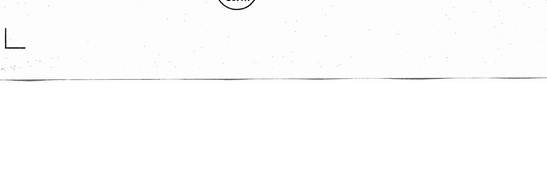
D1 S9.1R ALT. BASE CONN. @ SQ TUBE

2 S9.1R LANDING FLOOR PLAN AT EXTENDED LANDING







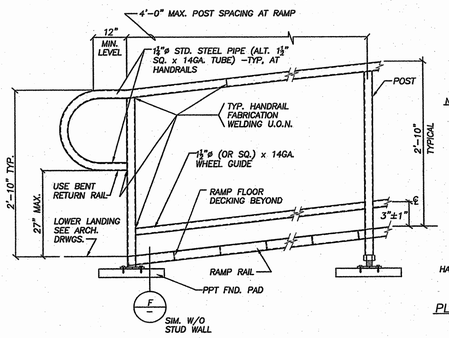


A S9.1R DET.– RAMP CONN. AT LANDING

B S9.1R SECTION AT LANDING

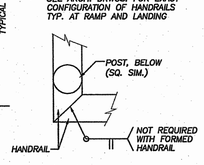
C S9.1R SECTION AT RAMP

D S9.1R DET.– DIAG. BRACE & ADJUSTABLE LEG AT POST

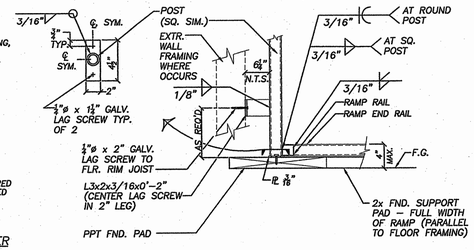


E S9.1R HANDRAIL AND END OF RAMP

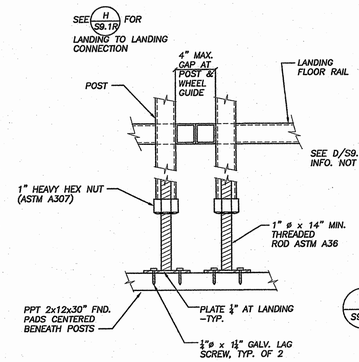
NOTE: HANDRAIL, WHEEL GUIDE AND CONNS. TO POST SIM. AT LANDING, SEE ARCH. DRWGS. FOR EXACT CONFIGURATION OF HANDRAILS TYP. AT RAMP AND LANDING



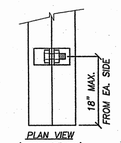
PLAN – HANDRAIL AT CORNER (WHERE OCCURS)



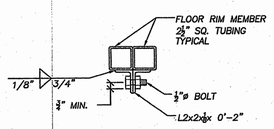
F S9.1R DET.– BASE CONN. @ END OF RAMP



G S9.1R LANDING TO LANDING CONNECTION AT BASE



PLAN VIEW (FROM BELOW)



H S9.1R LANDING TO LANDING CONNECTION

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 02 110782 AC FLS SS DATE 5/13/08

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT APPL.01- 112222 ACS FLS SS DATE AUG 30 2011

DESIGN

FLOOR LL	= 100	PSF
WIND	= 85	MPH ∞C
S D C	= D & E	
SITE CLASS	= D	

REVISIONS
1 2-19-09 T1/S9.1R

CBC 2007

PC

IDENTIFICATION STAMP DIV. OF STATE ARCHITECT OFFICE OF REGULATION SERVICES 02-109511 Rev #1 DATE FEB 23 2009 DIVISION OF STATE ARCHITECT

ENGINEER
REGISTERED PROFESSIONAL ENGINEER TERRY L. BALDEMAN No. 4424 Exp. 03/31/10 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT

GARY DOUPNIK MANUFACTURING, INC.
3237 RIPPEY ROAD, P.O. BOX 527, LOOMIS, CA. 95650 (916) 652-2291
12', 24', 36', 48', 60', 72', 84', 96' & 108'x40' RELOCATABLE BUILDINGS

METAL DECK RAMP AND LANDING PLANS AND DETAILS

DRAWN CLF
CHECKED TLB
DATE 11/14/08
SCALE N.T.S.
JOB NO.
FILE PC269S91R

S9.1R

ENVIROPLEX, INC.

RIGID STEELFRAME MODULAR BUILDING
APPLICABLE TO RELOCATABLE CLASSROOMS
(100) 24' x 40'
MOBILE MODULAR MANAGEMENT CORP.
STOCKPILE

SERIAL No.
4944-45, 4960-61, 5008-5009, 6360-61, 6164-75, 6238-47, 6350-59, 5970-71, 6362-6509

(REF: # 02-101236)

JH Lawder, Inc.
Structural Engineers
717 15TH STREET, MODESTO, CA 95354
(209) 521-1165 FAX (209) 521-1168

JOHN H. LAWDER
NO. 33310
EXP 3-31-05
STRUCTURAL
STATE OF CALIFORNIA

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

(100) 24'x40' RELOCATABLE CLASSROOM
MOBILE MODULAR MANAGEMENT CORP.
STOCKPILE

COVER SHEET
ABBREVIATIONS
SHEET INDEX

REVISION DATE:	BY:

JOB NO: 03-010
DRAWN BY: JQ
DATE: 02-28-03

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A0

ABBREVIATIONS

F.	AT
IM	ABOVE FINISHED FLOOR ALUMINUM
>	AMPERES
M	AMERICAN PLYWOOD ASSOCIATION
MB	AMERICAN SOCIETY OF TESTING MATERIALS AMERICAN WOOD PRODUCTS BUREAU
	BEAM
	BRITISH THERMAL UNITS
.C.	CENTER TO CENTER CALIFORNIA BUILDING CODE
.C.	CALIFORNIA ELECTRICAL CODE
	CIRCUIT
	CENTER LINE
	CEILING
NT	CLEAR CONTINUOUS
	COMPLETE PENETRATION
	DOUBLE
	DOUGLAS FIR - LARCH
	DIAMETER
	DOWN
A.	DIVISION OF THE STATE ARCHITECT
S	DRAWING
	EACH
IC	ELECTRICAL
	EDGE NAIL
	EQUAL
	EACH WAY
	EXPOSURE
	EXTERIOR
	FIRE ALARM
	FINISH
	FLANGE
G	FLOOR FLOORING
	FEET
	FOOTING
P.	FIBERGLASS REINFORCED PANEL
	YIELD STRENGTH (STEEL)
	GUAGE
V	GALVANIZED
	HOLDDOWN
R	HEADER
WR	HARDWARE
	HOLLOW METAL
	HEM FIR
	HOUR
B.	A325N HIGH STRENGTH BOLTS
AC	HEATING VENTILATION AIR CONDITIONING
	INTERIOR
BOX	JUNCTION BOX
	KILOWATT
	POUND
X.	MAXIMUM
S	A307 MACHINE BOLTS
R	MANUFACTURER
	MINIMUM
SC	MISCELLANEOUS
D	MODULE
	METAL
.C.	NOT IN CONTRACT
	NUMBER
C	ON CENTER
T	OPTIONAL
	PLATE
WD	PLYWOOD
SI.	POUNDS PER SQUARE INCH
S.F.	POUNDS PER SQUARE FOOT
T	PRESSURE TREATED
	THERMAL RATING
Q'D	REQUIRED
G	ROOFING
S.	SELF DRILLING SCREW(S)
G	SHEATHING
S.	SHEET METAL SCREW(S)
R	STRUCTURAL
	SQUARE
G	TONGUE AND GROOVE
X	TEK SCREWS
	TUBE STEEL
	TYPICAL
B.C.	UNIFORM BUILDING CODE
	VOLTS
	WATTS
.C.	WOODWORK INSTITUTE OF CALIFORNIA
'O	WITH
	WITHOUT
	DIAMETER
	SINGLE PHASE
	THREE PHASE

STRUCTURAL TESTS AND INSPECTIONS

TESTING LABORATORY: _____ DATE: _____

NAME: _____

DISTRICT/OWNER: _____

DIVISION - FILE NO. _____ APPLICATION NO. _____

ARCHITECT: _____

STRUCTURAL ENGINEER: _____

THE FOLLOWING TESTS AND INSPECTIONS, AS CHECKED, WILL BE REQUIRED AS DETAILED IN APPLICATION SPECIFICATIONS.

COMPACTED FILL	CONCRETE	GUNITE	GROUT	MORTAR	
FILL MATERIAL, ACCEPTANCE TESTS					TEST OF AGGREGATES FOR MIX DESIGN ONLY
COMPACTION CONTROL, CONTINUOUS					SUITABILITY TESTS OF AGGREGATES AS DETAILED BELOW
COMPACTION TESTS ONLY AS ORDERED	X				MIX DESIGNS (METHOD A)
BEARING CAPACITY OF COMPACTED FILL	X				WEDGMASTER CERTIFICATE
REINFORCING STEEL					INSPECT PLACING
SAMPLE AND TEST BAR STEEL					SAMPLE
SAMPLE AND TEST MESH	X				COMPRESSION TESTS (CONCRETE FOUNDATION ONLY)
INSPECT PLACING AT JOB					PICK UP SAMPLES AT JOB
STRUCTURAL STEEL					SAMPLES DELIVERED TO LABORATORY
X SAMPLE AND TEST AS DETAILED BELOW					DELIVER SAMPLE FORMS TO JOBSITE
X SHOP FABRICATION INSPECTION					SAMPLE AND TEST CEMENT
FIELD ERECTION INSPECTION					
X INSPECTION OF WELDS-SHOP					
INSPECTION OF WELDS-FIELD					
INSPECTION OF RIVETING OR BOLTING-SHOP					
INSPECTION OF RIVETING OR BOLTING-FIELD					
SAMPLE AND TEST HIGH STRENGTH BOLTS AND WASHERS					
BRICK AND BLOCK					
SAMPLE AND TEST					
TEST ONLY					
INSPECTION OF PLACING					
CORE DRILL SAMPLES					
OTHER TESTS & INSPECTIONS					
1. GENERAL INPLANT INSPECTION					
2. ELECTRICAL GROUND TEST IN FIELD					
3. TEST ELECTRICAL GROUNDING					

MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE

MATERIAL	MAXIMUM SIZE	COMPRESSIVE STRENGTH PSI MINIMUM @ 28 DAYS
CONCRETE	1"	2,500 PSI

LIST OF STRUCTURAL STEEL MEMBERS TO BE TESTED

PROVIDE MILL CERTIFICATES OR TEST PER C.B.C. SECTION 2231A
STRUCTURAL TUBING 150x6x5/16
LIGHT GAUGE STEEL SECTIONS & PLATES

DISTRIBUTION
( ) ENVIROPLEX INC.
( ) DIVISION OF STATE ARCHITECT
( ) DISTRICT/OWNER
( ) INSPECTOR
( ) ARCHITECT
( )

AUTHORIZATION SIGNATURE

REMARKS: _____

SYMBOL INDEX

ELEVATION TOP OF WORK — BENCHMARK

X / XX DETAIL SHEET — DETAIL KEY

X / XX SECT NO. SHEET — BUILDING SECTION

X / XX — ENLARGED PLAN VIEW DETAIL

X / XX — WALL ELEVATION SYMBOL

SEE SHEET A3 FOR ELECTRICAL SYMBOLS

TAPERED ROOF SHEET INDEX

SHED ROOF SHEET INDEX

BUILDING CODES/CBC DATA

APPLICABLE CODES:

1998 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 (1997 UNIFORM BUILDING CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA ELECTRICAL CODE, PART 3 TITLE 24 (1996 NATIONAL ELECTRICAL CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 (1997 UNIFORM MECHANICAL CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 (1997 UNIFORM PLUMBING CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA FIRE CODE, PART 9, TITLE 24 (1997 UNIFORM FIRE CODE AND CALIFORNIA AMENDMENTS)

1998 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 (1997 UNIFORM BUILDING CODE STANDARDS AND CALIFORNIA AMENDMENTS)

TITLE 19, CALIFORNIA CODE OF REGULATIONS

OCCUPANCY	E1&E2
CONSTRUCTION TYPE	V-NR
CLASSROOM AREA: 960 S.F.	NOMINAL

1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO THE 1998 CALIFORNIA BUILDING CODE (C.B.C.). A COPY OF THE CALIFORNIA BUILDING CODE SHALL BE KEPT ON THE SITE AT ALL TIMES.
2. CHANGES TO THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE STRUCTURAL ENGINEER, OWNER, & THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED.
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) & APPROVED BY THE STRUCTURAL ENGINEER & THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 1701A.3 OF 1998 C.B.C.
4. MATERIAL TESTING AS NOTED IN THE STRUCTURAL TESTS & INSPECTIONS AT THE LEFT SHALL BE PERFORMED AS REQUIRED PER SECTION 2231A OF 1998 C.B.C. MATERIAL TESTING REQUIRED BY FIRE REGULATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
5. VERIFIED REPORTS (DSA/SS/S FORM 6) SHALL BE SUBMITTED PER SECTION 4-336, 4-341(f), 342(b)(8), AND 4-343 (e) BY THE MANUFACTURER, INSPECTOR, STRUCTURAL ENGINEER.
6. A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED BEFORE MANUFACTURING ANY ENVIROPLEX UNIT IN ACCORDANCE WITH THESE DRAWINGS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS & ENVIROMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. SPECIAL INSPECTIONS PER SECTION 1701A 1998 C.B.C.

D.S.A. REQUIREMENTS

DIVISION OF THE STATE ARCHITECT

FEB 39-0
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 105136
AC FLS SH
DATE 3/6/03

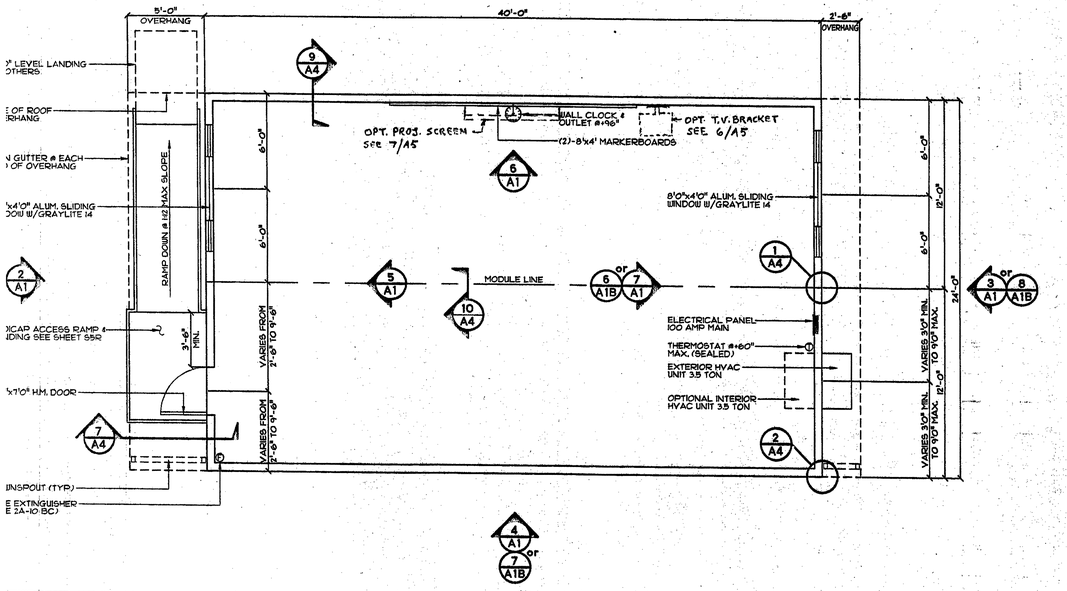
DESIGN CRITERIA

ROOF: DEAD LOAD - 8.0 PSF
ROOF: LIVE LOAD - 20.0 PSF (SNOW)

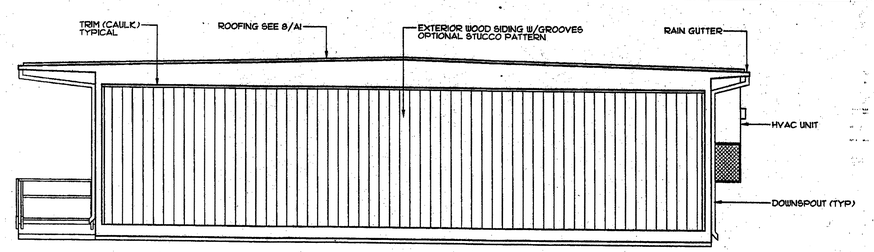
FLOOR: DEAD LOAD - 8.0 PSF
FLOOR: LIVE LOAD - 50.0 PSF
~~(OPTIONAL) FLOOR LIVE LOAD - 70.0 PSF~~
~~(OPTIONAL) FLOOR LIVE LOAD - 125.0 PSF~~

WALLS: DEAD LOAD - 8.0 PSF
WIND: 80 MPH; EXPOSURE: C
qs=16.4 PSF; Cs=1.06; Cq AS REQ.
SEISMIC: ZONE 4, a_a=0.5, I_p=2.5, I_s=1.5, C_a=0.44N_a, N_a=2.0, C_v=0.64N_v

APPROVALS

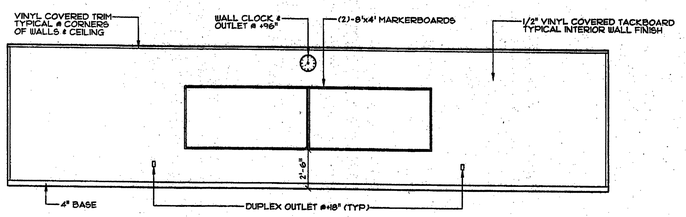


24' x 40' CLASSROOM FLOOR PLAN
SCALE: 1/4"=1'-0"

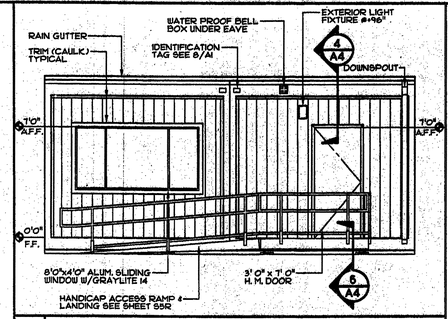


NOTE: SEE SHEET S1C & S1W FOR SIZE & LOCATION OF FOUNDATION VENTS.

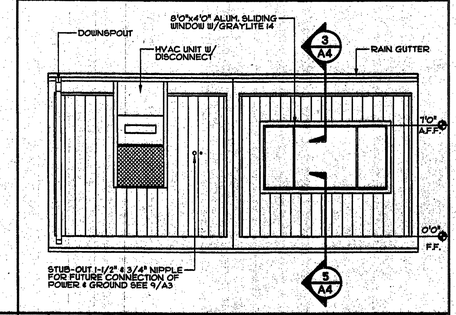
SIDE WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"



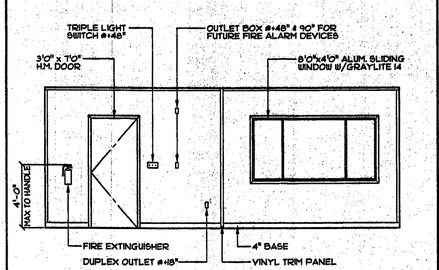
SIDE WALL INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



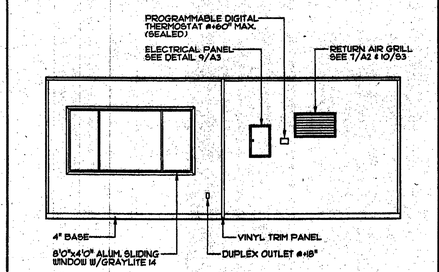
2 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"



3 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"



5 END WALL INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



7 END WALL INTERIOR ELEVATION
SCALE: 1/4"=1'-0"

1. CARPETS- ALL MODULES SHALL BE CARPETED WITH DIRECT GLUE DOWN TYPE PER STATE OF CALIFORNIA SPECIFICATION 1220-21K-01, GROUP I, TYPE "A", CLASS 24. THE CARPET DENSITY SHALL BE 4900 MIN. PILE YARN SHALL BE BRANDED NYLON, NO CROSS SEAMS SHALL BE ALLOWED. COLOR TO BE SELECTED BY OWNER.
2. RESILIENT BASE COVE- BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLORS AS MANUFACTURED BY "BURKE RUBBER CO." OR EQUAL.
3. ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. SEALANT- ROOF & MODULE LINE - POLYURETHANE
   SIDING & TRIM - ACRYLIC LATEX
5. PAINT- (EXTERIOR WOOD) PRIMER---------ACRYLIC UNDERCOAT
   FINISH----------ACRYLIC LATEX
   (METALS)------- PRIMER---------RED OXIDE ALKYD
   FINISH----------ACRYLIC LATEX
6. BUILDING, DOOR, & WINDOW TRIM MASONITE FACED MDO TRIM. TRIM SHALL BE SEALED AT ALL EDGES SEALANT. PAINTED TO MATCH TRIM OR SIDING.
   EXTERIOR SIDING-8" O.C. GROOVED M.D.O. PLYWOOD OR STUCCO PATTERN MASONITE FACED EXTERIOR SIDING. (MINIMUM NET THICKNESS 3/8")
7. HOLLOW METAL DOORS AND FRAMES- 3'0" x 7'0" x 1-3/4" 18 GA. FULL FLUSH METAL DOOR IN 16 GA. METAL FRAME.
   EXIT DOOR SHALL BE OPENABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
   CLOSERS FOR EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 8.5 LBS # 5 LBS FOR INTERIOR CLOSERS
   DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.
   DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.
   HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISHED FLOOR.

	(UNLESS OTHERWISE NOTED)
LOCKSET (LEVER MODEL.)	SCHLAGE D10PDRHO (RHODES) OR EQUAL
	(WHERE SPECIFIED ONLY)
LOCKSET (PANIC DEVICE)	INTERIOR: PRECISION #108 626 OR EQUAL
	EXTERIOR: PRECISION # 9L OR EQUAL
	CYLINDER: SCHLAGE, YALE, SARGENT OR EQUAL
HINGES	HAGER BB1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL
CLOSER	NORTON 8501BF OR EQUAL
THRESHOLD	PEMKO 271A OR EQUAL
DOOR BOTTOM	PEMKO 216AV OR EQUAL
WEATHERSTRIP	PEMKO 306A OR EQUAL

ROOFING
METAL ROOF:
PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAGE MIN. GALVANIZED STEEL ROOF PANELS, MECHANICALLY CRIMPED STANDING SEAM OVER 30 LB. FELT OVER 15/32" APA RATED, EXTERIOR GRADE PLYWOOD. (CLASS "B" FIRE RATING)

INSULATION
1. ALL INSULATION (INCLUDING PIPE INSULATION) SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS, CALIFORNIA BUILDING CODE SEC. 7012 , 7013, & 2606 FOR FOAM. MAX FLAME SPREAD: 25, MAX SMOKE DENSITY: 450
2. CEILING: 6" R-19 FIBERGLASS
3. WALL: 3-1/2" R-11 FIBERGLASS
4. FLOOR: RIGID CELLULAR BOARD (TOTAL FLOOR INSULATION R-11).

IDENTIFICATION
NOTE: THE MANUFACTURER SHALL PLACE TWO PERMANENT METAL IDENTIFICATION TAG ON EACH MODULAR BUILDING MECHANICALLY FASTENED TO THE END WALL. THE TAG SHALL SHOW DSA, APPLICATION NUMBER, MANUFACTURER'S SERIAL NUMBER, PLANT INSPECTOR'S IDENTIFICATION MARK, AND DESIGN FLOOR AND ROOF LIVE LOAD. PLACE ONE TAG ON EXTERIOR AND, ONE ON THE INTERIOR ABOVE CEILING LINE.

8 MATERIAL SPECIFICATIONS & NOTES

1. SAW LUMBER GRADED PER WEST COAST LUMBER INSPECTION BUREAU, RULE 17.
2. ALL FRAMING LUMBER & BLOCKING SHALL BE DOUGLAS FIR #2.
3. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
4. LUMBER MAY BE REJECTED FOR BOXED HEART, EXCESSIVE WARP, TWIST, SPLIT, CHECK, FUNGUS, MOLD, OR ANY REASON PROVIDED BY GRADING RULES.

9 LUMBER NOTES

1. ALL MODULES MAY BE BUILT OPPOSITE HAND FROM THE WAY THEY ARE SHOWN
2. SIDEWALL & ENDWALL ELEVATIONS SHOWN ON SHEET A1 ARE MODULAR NON-BEARING WALLS NOT REQUIRED FOR THE RESISTANCE OF VERTICAL OR LATERAL LOADS.

10 BUILDING AND WALL PANEL OPTIONS

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 103136
AC FLC SS
DATE 3/4/05

PC

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-101238
AC FLS SS
DATE 11/10/04

DESIGN CRITERIA

ROOF: DEAD LOAD – 8.0 PSF
ROOF: LIVE LOAD – 20.0 PSF (SNOW)

FLOOR: DEAD LOAD – 8.0 PSF
FLOOR: LIVE LOAD – 50.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD – 70.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD – 125.0 PSF

WALLS: DEAD LOAD – 8.0 PSF
WIND: 80 MPH; EXPOSURE: C
qs=16.4 PSF; Cn=1.08; Cq AS REQ.
SEISMIC ZONE 4,I=1.5,Cp=2.8,Ap=1.5,Rp=4.0,Wp,Ip=2.0,Cp=.84Wp

11 APPROVALS

JH Lawder, Inc.
Structural Engineers
717 14TH STREET MODESTO, CA 95354
(209) 521-1143 FAX (209) 521-1198

REGISTERED PROFESSIONAL ENGINEER
JOHN H. LAWDER
NO. 52310
EXP 3-31-01
STRUCTURAL
STATE OF CALIFORNIA

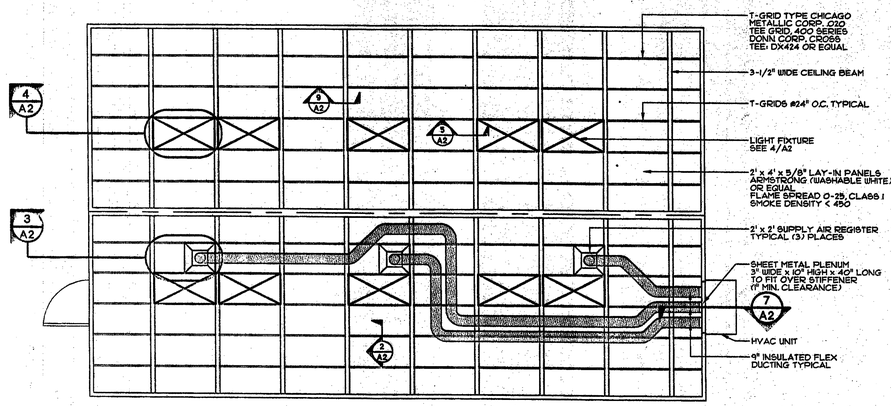
ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

FLOOR PLAN–INTERIOR&EXTERIOR ELEVATIONS – MATERIAL SPECIFICATIONS – NOTES

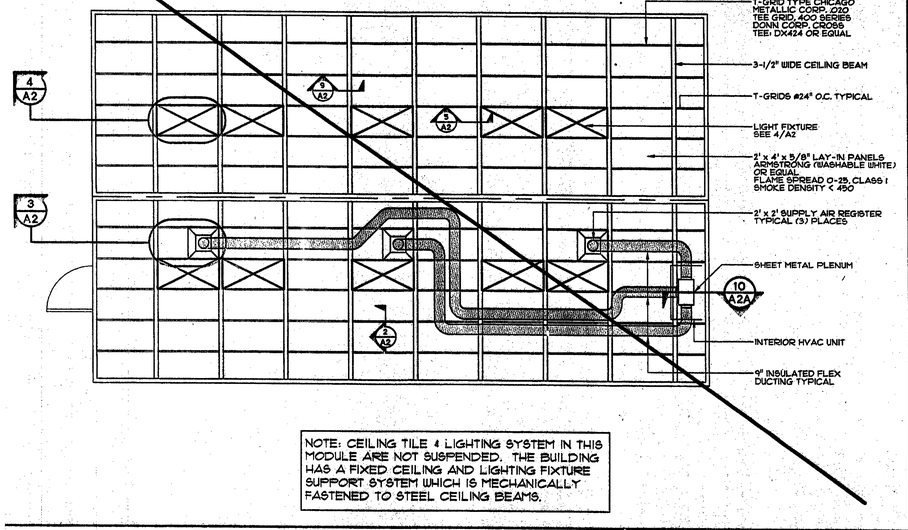
REVISION DATE:	BY:
DATE:	

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A1

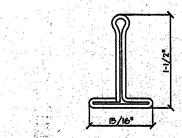


24' x 40' "EXTERIOR HVAC" MECHANICAL & REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"



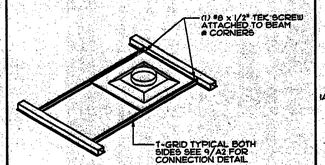
NOTE: CEILING TILE & LIGHTING SYSTEM IN THIS MODULE ARE NOT SUSPENDED. THE BUILDING HAS A FIXED CEILING AND LIGHTING FIXTURE SUPPORT SYSTEM WHICH IS MECHANICALLY FASTENED TO STEEL CEILING BEAMS.

24' x 40' "INTERIOR HVAC" MECHANICAL & REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

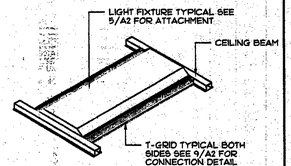


NOTE: T-GRID TO BE DONN CORP. CROSS TEE : DX424 OR CHICAGO METALLIC CORP. .020 TEE GRID, 400 SERIES OR EQUAL.

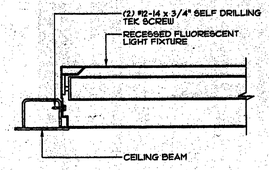
2 TYPICAL T-GRID
SCALE: FULL



3 SUPPLY AIR REGISTER
SCALE: 1/2"=1'-0"



4 DROP-IN LIGHT FIXTURE
SCALE: 1/2"=1'-0"



5 LIGHT FIXTURE SUPPORT
SCALE: 3"=1'-0"

1. EXTERIOR HEAT PUMP
SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-77. (UL. LISTED)
REFERENCE BRANDS: BARD WH42I-AXXXXXXB (OR EQUAL)

WIRING AND MNTG. INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.
A) TWO SPEED INDOOR BLOWER MOTOR TO REDUCE INDOOR NOISE LEVEL.
B) RECIRCUIT 5 KW HEAT STRIP.
C) LOW TEMPERATURE OUTDOOR THERMOSTAT TO ASSIST CIRCUITING DURING THE HEATING MODE.
D) COOLING: 39,406 BTU HR (95°F.) HEATING 43,000 BTU HR (47°F.)
E) WEIGHT: 510# MAX

1A. INTERIOR HEAT PUMP
SINGLE PACKAGE FLOOR & WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-77. (UL. LISTED)
REFERENCE BRANDS: BARD GH42I-A0B3XXXXXXX (OR EQUAL.)

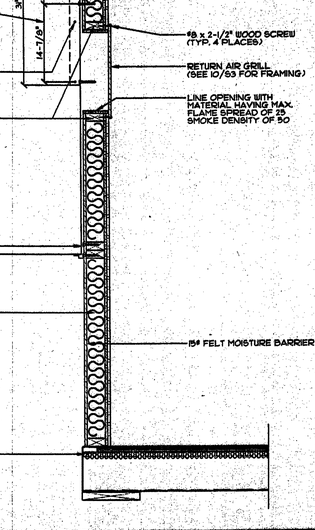
WIRING AND MNTG. INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.
A) TWO SPEED INDOOR BLOWER MOTOR TO REDUCE INDOOR NOISE LEVEL.
B) RECIRCUIT 5 KW HEAT STRIP.
C) LOW TEMPERATURE OUTDOOR THERMOSTAT TO ASSIST CIRCUITING DURING THE HEATING MODE.
D) COOLING: 40,000 BTU HR (95°F.) HEATING 38,000 BTU HR (47°F.)
E) WEIGHT: 530# MAX

AIR FILTERS:
AN APPROVED TYPE TESTED IN ACCORDANCE WITH TEST METHODS SFM-12-71-A6 SHOWN IN PART 12, TITLE 24, CALIFORNIA CODE OF REGULATIONS. PREFORMED FILTERS HAVING COMBUSTABLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER, AS DEFINED IN THE TEST METHOD ABOVE. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

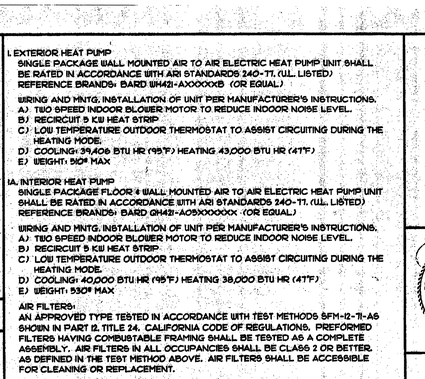
2. CONTROLS:
THERMOSTAT: WHITE-ROGERS #92 DIGITAL (TAMPER PROOF). MAX +60" FROM FLOOR (+48" MAX IF NON-SEALED TYPE).

3. DUCTS: MAY BE CLASS "1" OR "0".
FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.M.C. STANDARDS NO. 6-1. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE INDENTIFIED BY THE MANUFACTURER WITH A LABLE OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE W/UMC STANDARD NO. 6-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDING SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVE AS NORMALLY APPLIED. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50

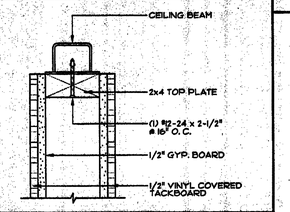
8 H.V.A.C. SPECIFICATIONS



7 HVAC @ WALL SECTION
SCALE: 1"=1'-0"



9 T-GRID CONNECTION DETAIL
SCALE: 3"=1'-0"



10 WALL ATTACHMENT DETAIL
SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 105133
ACL'S FLS SS
DATE 3/8/2002

PC

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
02-101236
ACL'S FLS SS
DATE

DESIGN CRITERIA
ROOF: DEAD LOAD = 8.0 PSF
ROOF: LIVE LOAD = 20.0 PSF (SNOW)
FLOOR: DEAD LOAD = 8.0 PSF
FLOOR: LIVE LOAD = 50.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 70.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 125.0 PSF
WALLS: DEAD LOAD = 8.0 PSF
WIND: 80 MPH; EXPOSURE: C
qs=18.4 PSF; Cs=1.06; Cq: AS REQ.
SEISMIC: ZONE 4,R=4.5,I_p=2.5,I_s=1.5,C_a=0.44N,N_a=2.0,C_v=0.64N,

11 APPROVALS

JH Lawder, Inc.
Structural Engineers
717 10th STREET MODESTO, CA 95354
(209) 521-1143 FAX (209) 521-1196

REGISTERED PROFESSIONAL ENGINEER JOHN H. LAWDER No. 52310 EXP. 3-31-01 STRUCTURAL CIVIL STATE OF CALIFORNIA

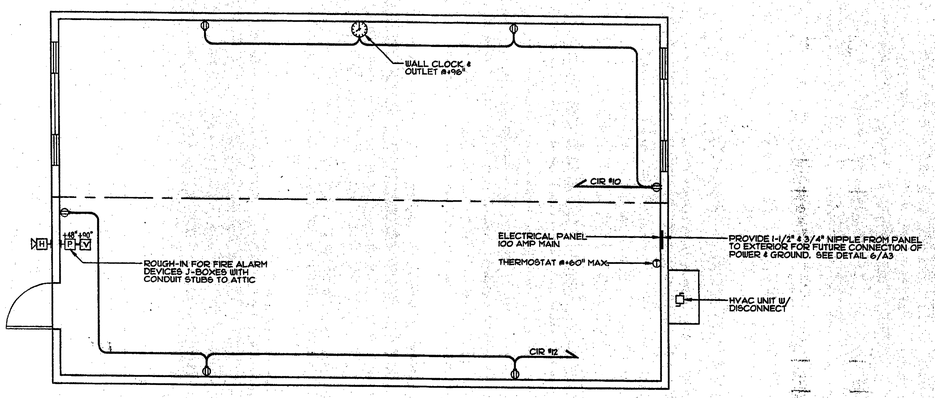
ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

MECHANICAL & REFLECTED CEILING PLANS - HVAC @ WALL SECTION DETAILS - HVAC SPECIFICATIONS

REVISION DATE:	BY:
DATE:	

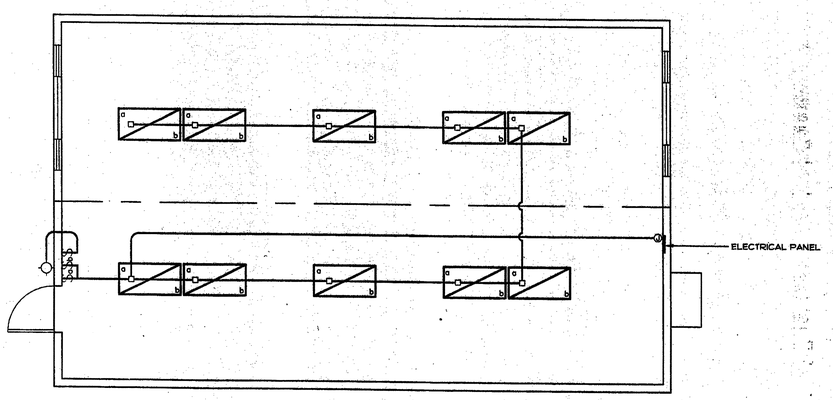
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A2



24' x 40' ELECTRICAL POWER & SIGNAL PLAN

SCALE: 1/4"=1'-0"



NOTE:
NO ALTERATIONS (DRILLING HOLES, ECT.) ARE TO BE MADE TO STEEL STRUCTURAL MEMBERS.

24' x 40' ELECTRICAL LIGHTING PLAN

SCALE: 1/4"=1'-0"

1. FIRE ALARM: FURNISHED BY OWNER AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE SECTION 305.9 AND CALIFORNIA ELECTRICAL CODE ARTICLE 760.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY D.S.A.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR.

2 FIRE PROTECTION

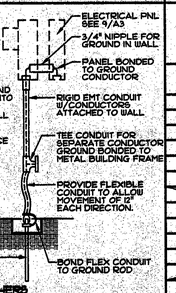
	DUPLEX RECEPTACLE @+15" MIN. FROM FLOOR
T	PROGRAMMABLE DIGITAL THERMOSTAT FOR HVAC UNIT @+60" MAX. FROM FLOOR SEALED (NON USER OPERABLE)
	WALL CLOCK W/SINGLE CLOCK RECEPTACLE
J	JUNCTION BOX ABOVE IN CEILING OR WALLS
H	WATER PROOF BELL BOX UNDER EAVE @8'-0" FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION
P	OUTLET BOX @+48" TO CENTER FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
V	OUTLET BOX @+90" TO CENTER FOR FUTURE FIRE ALARM ~~VISUAL~~ AUDIBLE WARNING DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
I	OUTLET BOX @+48" TO CENTER FOR FUTURE INTERCOM SYSTEM
	EXTERIOR INCONDESCENT LIGHT FIXTURE
S	LIGHT SWITCH @+48" MAX. TO CENTER FROM FLOOR

3 ELECTRICAL SPECIFICATIONS

1. WALL CLOCK:
   12"Ø +96" FROM FLOOR WITH EAGLE CLOCK RECEPTACLE
   15 VAC. R4H INC. OR EQUAL
2. ELECTRICAL PANEL:
   FLUSH MOUNTED W/ HINGED DOORS AND INDEXED CARD HOLDERS
   CIRCUIT BREAKER(S) WILL HAVE AN APPROPRIATE UL LABEL LISTED.
3. RECEPTACLES:
   LEVITON, HUBBEL OR EQUAL @+15" MIN.
4. LIGHT SWITCHES:
   LEVITON, HUBBEL OR EQUAL @+48" MAX.
5. LIGHTING FIXTURE:
   2' x 4' FLUORESCENT DROP-IN TYPE FIXTURES T-12 WITH 40 WATT LAMPS OR T-8 W/ELECTRONIC BALLAST & 32 WATT LAMPS COPPER, LITHONIA OR EQUAL.
6. ELECTRIC METALLIC TUBING:
   COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
7. CONDUCTORS:
   COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES. MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12, SIZE HVAC WIRING PER LOAD.
8. SEE SHEET A2 FOR HVAC & THERMOSTAT SPECIFICATION.

4 ELECTRICAL SYMBOLS

NOTES:
1. METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
2. SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 250-95
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (CEC. 250-81). IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (C.E.C. 250-81 & 250-83)
4. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER, BOLTING ONLY IS NOT ACCEPTABLE BONDING.
5. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/ CONDUCTORS AS SHOWN, SEPARATE AT LEAST 6'0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (C.E.C. 250-84)
6. ELECTRICAL GROUNDING TEST SHALL BE WITNESSED BY THE PROJECT INSPECTOR & RESULTS SENT TO D.S.A..
7. GROUND ROD GROUNDING CLAMP TO BE BUSHING RATED FOR 3 CONNECTIONS

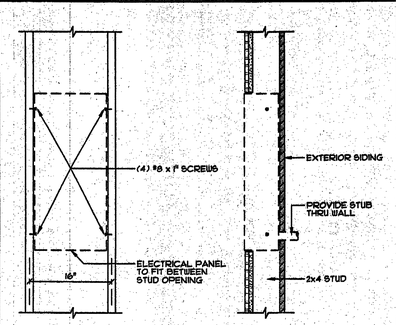


NOTE: GROUND TO BE PROVIDED BY OTHERS

5 ELECTRICAL ENERGY COMPLIANCE

1. CERTIFIED LUMINARIES/BALLASTS ~~PER SEC. 2-5314 (a).~~
2. INDEPENDENT CONTROL WITHIN ENCLOSED AREAS ~~PER SEC. 2-5315 (a).~~
3. MANUAL SWITCHING READILY ACCESSIBLE ~~PER SEC. 2-5315 (b).~~
4. REDUCTION OF LIGHTING LOAD TO AT LEAST 50% ~~PER SEC. 2-5311 (c).~~
5. SEPARATE SWITCHING OF DAYLITE AREAS ~~PER SEC. 2-5311 (d).~~
6. TANDEM WIRING OF 4 LAMP LUMINARIES ~~PER SEC. 2-5315 (b).~~

6 ELECTRICAL GROUND



7 PANEL SCHEDULE "A"

PANEL SCHEDULE: "A" NEMA-1 VOLTS: 120/240
MOUNTING: FLUSH AMPS: 100 WIRE: 3W
INTERIOR PHASE: 1ø

DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
MAIN		100	1	2			
			3	4			
HVAC UNIT	7612	50	5	6	20/1	1440	LIGHTING-A
		2	7	8	20/1	1440	LIGHTING-B
			9	10	20/1	1800	OUTLETS
			11	12	20/1	1800	OUTLETS
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
	7.6	KVA		TOTAL		6.4	

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 105136
AC FLS SS
DATE 10/27/03

PC

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-101236
AC FLS SS
DATE 11/14/04

DESIGN CRITERIA

ROOF: DEAD LOAD = 8.0 PSF
ROOF: LIVE LOAD = 20.0 PSF (SNOW)

FLOOR: DEAD LOAD = 8.0 PSF
FLOOR: LIVE LOAD = 50.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 70.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 125.0 PSF

WALLS: DEAD LOAD = 8.0 PSF
WIND: 80 MPH; EXPOSURE: C
qs=16.4 PSF; Cs=1.06; Cq AS REQ.
SEISMIC: ZONE 4, R_I=4.5, C_{Dl}=2.8, R_2=1.5, C_{D2}=0.44N, R_3=2.0, C_{D3}=0.54N,

9 ELECTRICAL PANEL MTG. DETAIL

SCALE: 1"=1'-0"

10 APPROVALS

JH Lawder, Inc.
Structural Engineers
777 18th STREET MODESTO, CA 95354
(209) 521-1143 FAX (209) 521-1198

REGISTERED PROFESSIONAL ENGINEER
JOHN H. LAWDER
NO. 52310
EXP. 3-31-05
STRUCTURAL
STATE OF CALIFORNIA

ENVIROPLEX, INC.

4777 E. CARPENTER ROAD STOCKTON, CA. 95215

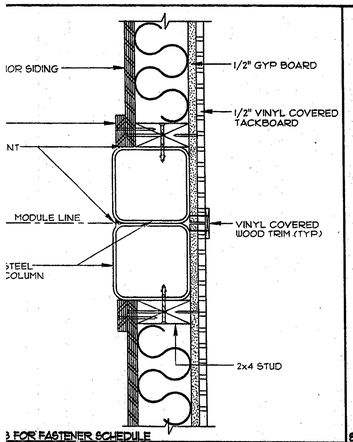
ELECTRICAL POWER & SIGNAL PLAN
ELECTRICAL LIGHTING PLAN
DETAILS-ELECTRICAL NOTES

REVISION DATE:	BY:

DATE:

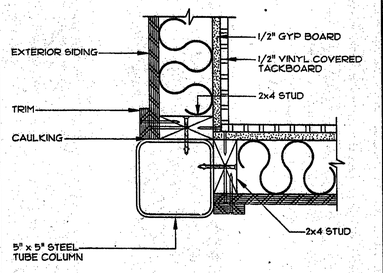
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

A3



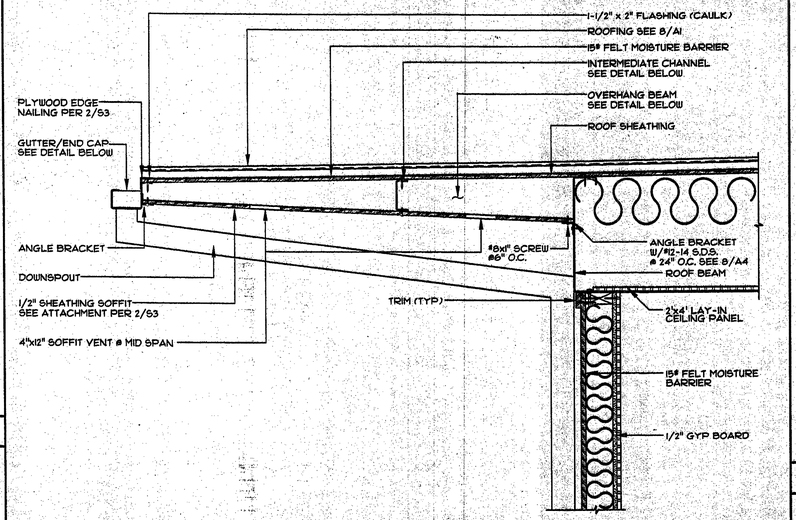
SEE 2/83 FOR FASTENER SCHEDULE

COLUMN SECTION AT MOD-LINE
SCALE: 3"=1'-0"



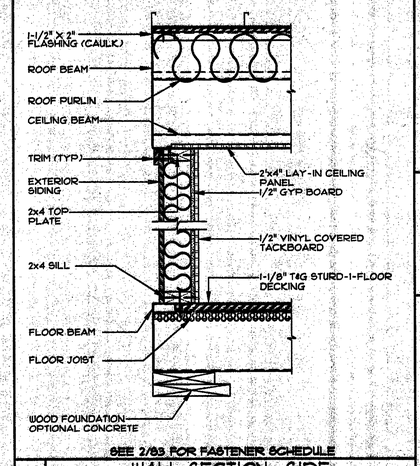
SEE 2/83 FOR FASTENER SCHEDULE

2 COLUMN SECTION @ CORNER
SCALE: 3"=1'-0"



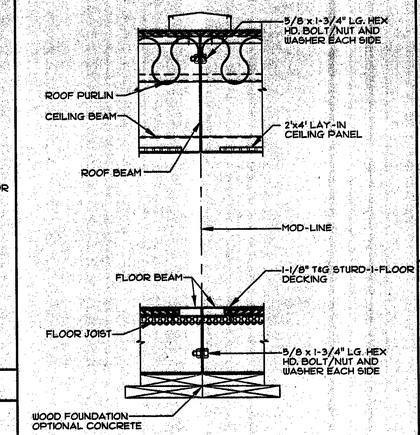
SEE 2/83 FOR FASTENER SCHEDULE

7 WALL SECTION- FRONT AND REAR
SCALE: 1-1/2"=1'-0"



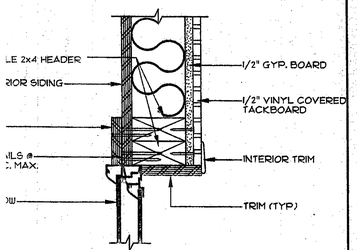
SEE 2/83 FOR FASTENER SCHEDULE

9 WALL SECTION- SIDE
SCALE: 1-1/2"=1'-0"

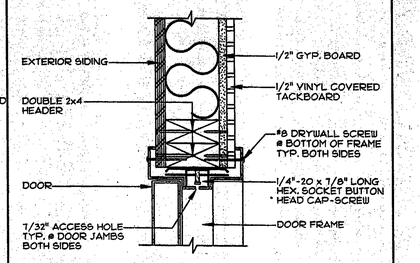


SEE 2/83 FOR FASTENER SCHEDULE

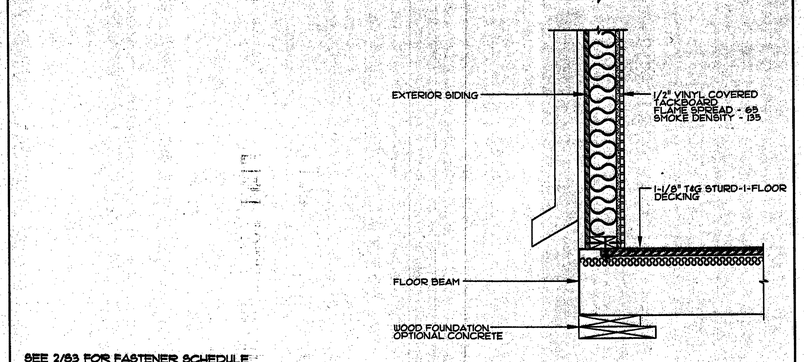
10 WALL SECTION AT MOD-LINE
SCALE: 1-1/2"=1'-0"



WINDOW HEADER (JAMB SIM'L)
SCALE: 3"=1'-0"



4 DOOR HEAD (JAMB SIM'L)
SCALE: 3"=1'-0"

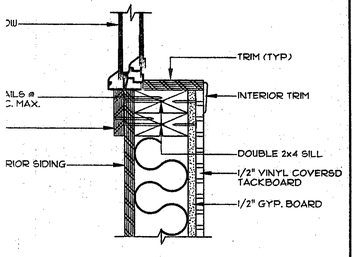


SEE 2/83 FOR FASTENER SCHEDULE

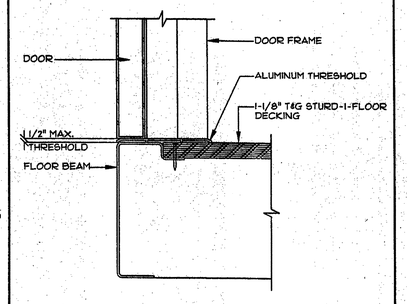
8 OVERHANG SECTION & GUTTER DETAILS
SCALE: AS NOTED

SEE 2/83 FOR FASTENER SCHEDULE

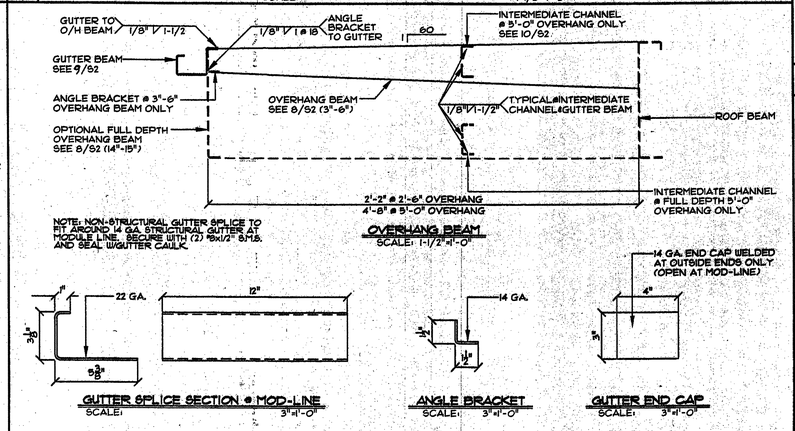
11 APPROVALS



WINDOW SILL
SCALE: 3"=1'-0"



6 DOOR SILL
SCALE: 3"=1'-0"



DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
02-101238
AC FLS SS
DATE 11/17/06

PC

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
02-105136
AC FLS SS
DATE 12/19/06

DESIGN CRITERIA

ROOF: DEAD LOAD = 8.0 PSF
ROOF: LIVE LOAD = 20.0 PSF (SNOW)

FLOOR: DEAD LOAD = 8.0 PSF
FLOOR: LIVE LOAD = 50.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 70.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 125.0 PSF

WALLS: DEAD LOAD = 8.0 PSF

WIND: 80 MPH; EXPOSURE: C
qz=16.4 PSF; Cn=1.00; Cq'AS REQ.

SEISMIC: ZONE 4,R=4.5,Ω0=2.8,Ih =1.5,Cs =0.44Ih,Rs=2.0,Cs=.84Ih

JH Lawdar, Inc.
Structural Engineers
717 10th STREET MODESTO, CA. 95354
(209) 524-1143 FAX (209) 521-1198

REGISTERED PROFESSIONAL ENGINEER JAMES H. LAWDER NO. 32310 EXP. 9-31-01 STRUCTURAL STATE OF CALIFORNIA

ENVIROPLEX, INC.

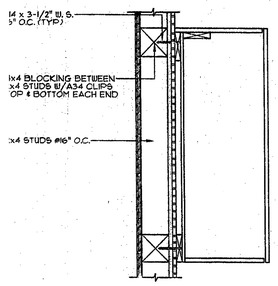
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

SECTIONS AND DETAILS

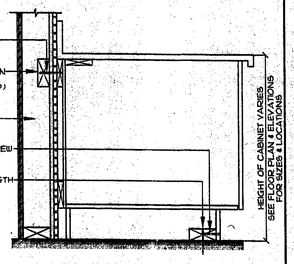
REVISION DATE:	BY:
DATE:	

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

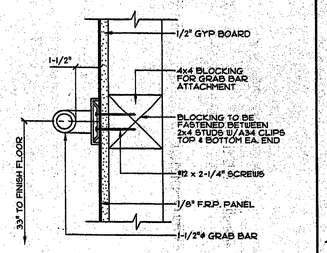
A4



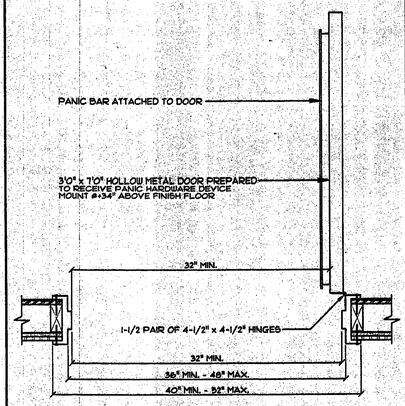
IPPER CABINET BLOCKING DETAIL
SCALE: 1-1/2"=1'-0"



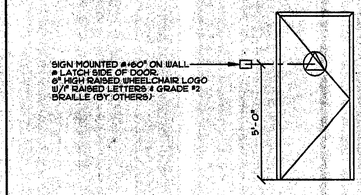
2 BASE CABINET BLOCKING DETAIL
SCALE: 1-1/2"=1'-0"



3 GRAB BAR BLOCKING DETAIL
SCALE: 1-1/2"=1'-0"



4 PANIC HARDWARE DETAIL
SCALE: 1-1/2"=1'-0"

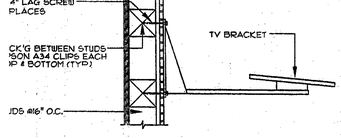


NOTE:
DOOR LEADING INTO A UNISEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR. (C.B.C. SECTION 1115B.3)

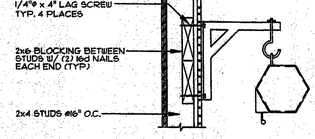
or

THE DOOR LEADING INTO BOY'S FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. THE DOOR LEADING INTO GIRL'S FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR. (C.B.C. SECTION 1115B.3)

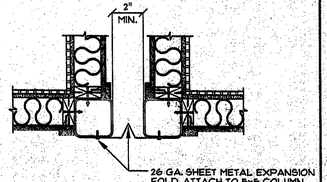
5 RESTROOM DOOR SIGNAGE DETAIL
SCALE: 1/4"=1'-0"



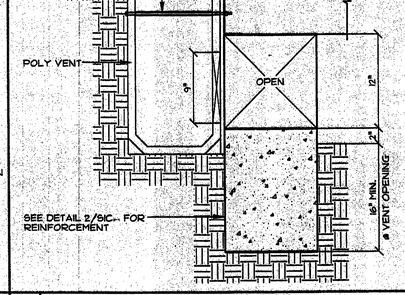
TV BRACKET BLOCKING DETAIL
SCALE: 1-1/2"=1'-0"



7 PROJECTOR SCREEN BLOCKING DETAIL
SCALE: 1-1/2"=1'-0"



8 CLOSURE PANEL DETAIL
SCALE: 1-1/2"=1'-0"



9 POLYVENT DETAIL
SCALE: 1-1/2"=1'-0"

10

DIVISION OF THE STATE ARCHITECT — OFFICE OF REGULATION SERVICES

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
02 105136
AC
FLS
DATE

PC

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
02-101236
AC
FLS
DATE 11/19/99

DESIGN CRITERIA

ROOF: DEAD LOAD = 10.0 PSF
ROOF: LIVE LOAD = 20.0 PSF (SNOW)

FLOOR: DEAD LOAD = 8.0 PSF
(CLASSROOM) 1st & 2nd FLOOR: LIVE LOAD= 50.0 PSF
(OFFICE) 1st & 2nd FLOOR: LIVE LOAD= 70.0 PSF
(OPTIONAL 1ST FLR) FLOOR: LIVE LOAD= 125.0 PSF

WALLS: DEAD LOAD = 9.0 PSF
WIND: 80 MPH; EXPOSURE: C
c_{rs}=16.4 PSF; Ce & Cq AS REQ.
SEISMIC ZONE 4, R_W=4.5, R_I=1.5, N_a=1.2, S_1/S_2=0.44/0.72, C_V=.54, N_v, Ω_0=2.8

16 APPROVALS

JH Lawder, Inc.
Structural Engineers
717 18th STREET MODESTO, CA. 95354
(209) 521-1149 FAX (209) 521-1188

REGISTERED PROFESSIONAL ENGINEER JOHN H. LAWDER No. 52310 Exp. 3-31-01 STRUCTURAL STATE OF CALIFORNIA

1 of 3

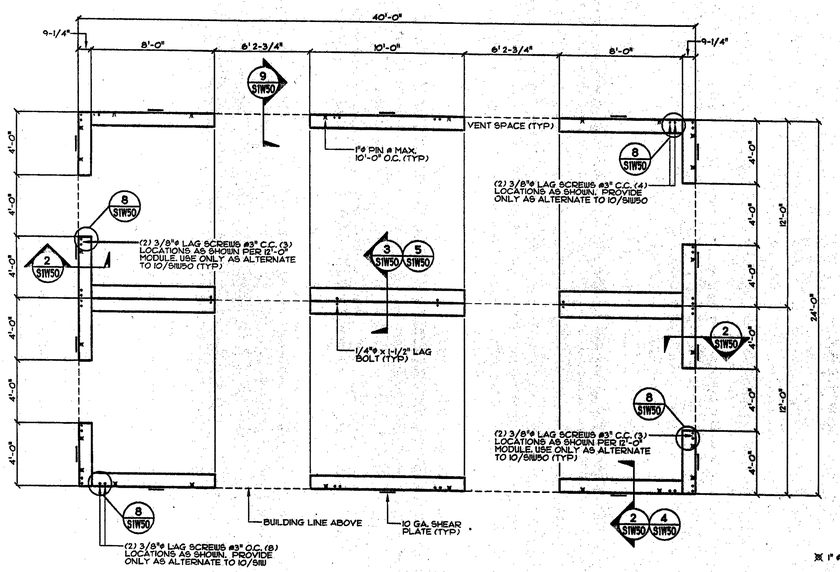
ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

DETAILS

REVISION DATE:	BY:
DATE:	

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION.

A5



24' x 40' "50 P.S.F." WOOD FOUNDATION PLAN

SCALE: 1/4"=1'-0"

OM LAYER OF PIERS SHALL BE PRESSURE TREATED HEM
D. 3 OR BETTER. FOUNDATION GRADE WOOD IN CONTACT
SOIL SHALL BE PRESERVATIVE TREATED & SHALL BE
FIED " FOR GROUND CONTACT". PRESSERVATIVE
TED MATERIAL SHALL BE VERIFIED BY A CERTIFICATE OF
TMENT STATING, "THE MATERIAL IN THIS UNIT WAS TREATED
NIFORM BUILDING CODE, SECTION 2303A.3". EACH PIECE
SURE TREATED MATERIAL SHALL BE STAMPED WITH THE
OPRATE STAMP.

AILS SHALL BE CORROSIVE RESISTANT NAILS IN
RDANCE WITH SECTION 2318A.3.4 C.B.C. HDG W/MIN
/ SQ. FT. ZINC

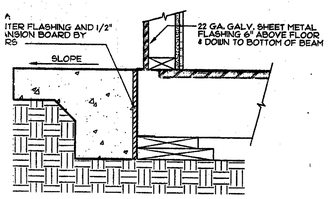
IERS AS REQUIRED WITH APA RATED PLYWOOD MADE WITH
RIOR GLUE. SHIMS SHALL BE CONTINUOUS ACROSS LENGTH
ERS AS FIELD CONDITIONS ALLOW. PLYWOOD SHIMS SHALL
E IN DIRECT CONTACT WITH THE SOIL.

BEARING PRESSURE IS ASSUMED AT 1000 P.S.F.

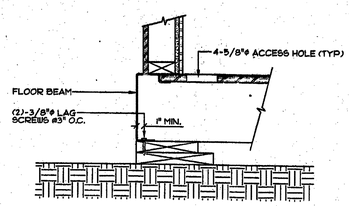
ATION SHOWN ON (2) LAYERS OF WOOD. ANY ADDITIONAL
RS OF WOOD ARE TO BE STACKED AS PER STACKING
LS 4/S1W50, 5/S1W50 & 6/S1W50

LATION TO MEET REQUIRMENTS PER IR 16-1. PROVIDE
.4 SQ. FT. OF VENT SPACE. (PROVIDE 2" MIN. CLR.)

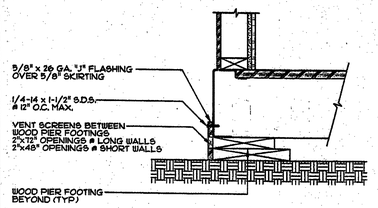
WOOD NOTES



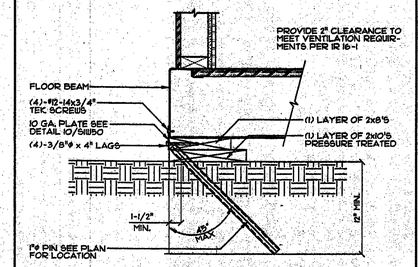
PERIMETER FLASHING DETAIL
SCALE: 1-1/2"=1'-0"



8 ALTERNATE PERIMETER DETAIL
SCALE: 1-1/2"=1'-0"

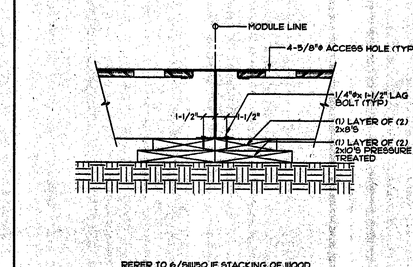


9 PERIMETER SKIRTING DETAIL
SCALE: 1-1/2"=1'-0"



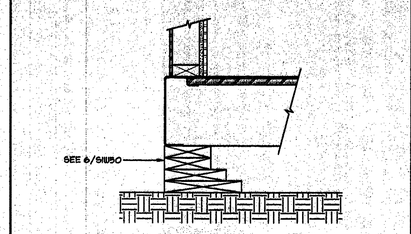
REFER TO 6/S1W50 IF STACKING OF WOOD FOUNDATION IS REQUIRED FOR LEVELING

2 PERIMETER PIER DETAIL
SCALE: 1-1/2"=1'-0"



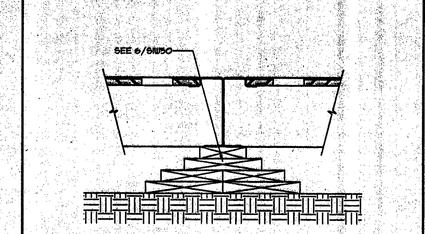
RERER TO 6/S1W50 IF STACKING OF WOOD FOUNDATION IS REQUIRED FOR LEVELING

3 INTERIOR PIER DETAIL
SCALE: 1-1/2"=1'-0"



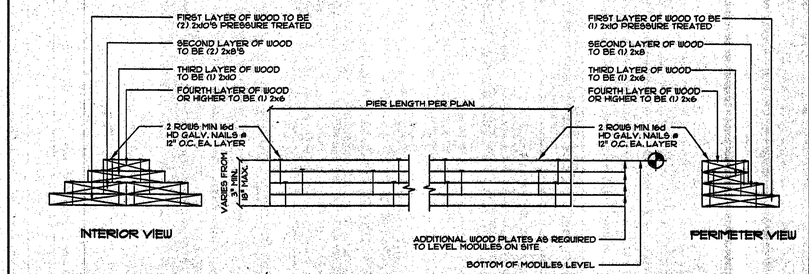
NOTE: THIS DETAIL FOR REFERENCE ONLY SEE DETAIL 6/S1W50 FOR NAILING DETAIL.
SEE 2/S1W50 U.O.N.

4 PERIMETER PIER STACKING DETAIL
SCALE: 1-1/2"=1'-0"

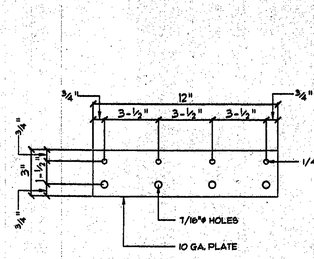


NOTE: THIS DETAIL FOR REFERENCE ONLY SEE DETAIL 6/S1W50 FOR NAILING DETAIL.
SEE 3/S1W50 U.O.N. FOR INTERNAILING

5 INTERIOR PIER STACKING DETAIL
SCALE: 1-1/2"=1'-0"



6 INTERNAILING OF WOOD PIERS
SCALE: 1-1/2"=1'-0"



10 SHEAR PLATE
SCALE: 3"=1'-0"

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 101236
AC. RS SS
DATE 9/19/13

PC

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
02-101236
AC. RS SS
DATE 9/19/13

DESIGN CRITERIA

ROOF: DEAD LOAD = 8.0 PSF
ROOF: LIVE LOAD = 20.0 PSF (SNOW)

FLOOR: DEAD LOAD = 8.0 PSF
FLOOR: LIVE LOAD = 50.0 PSF
(OPTIONAL FLOOR LIVE LOAD = 70.0 PSF)
(OPTIONAL FLOOR LIVE LOAD = 100.0 PSF)

WALLS: DEAD LOAD = 8.0 PSF
WIND: 80 MPH; EXPOSURE: C
qs=16.4 PSF; Cn=1.0(S; Cq AS REQ.
SEISMIC: ZONE 4,R=4.5,Ω0=2.8,I=1.5,Cs=0.44S,W=2.0,Cs=0.84S,

11 APPROVAL

JH Lawder, Inc.
Structural Engineers
717 18th STREET MODESTO CA 95354
(209) 523-1168 FAX (209) 523-1169

REGISTERED PROFESSIONAL ENGINEER JOHN H. LAWDER NO. S5310 EXP. 9-31-01 STRUCTURAL STATE OF CALIFORNIA
9/19/13

ENVIROPLEX, INC.

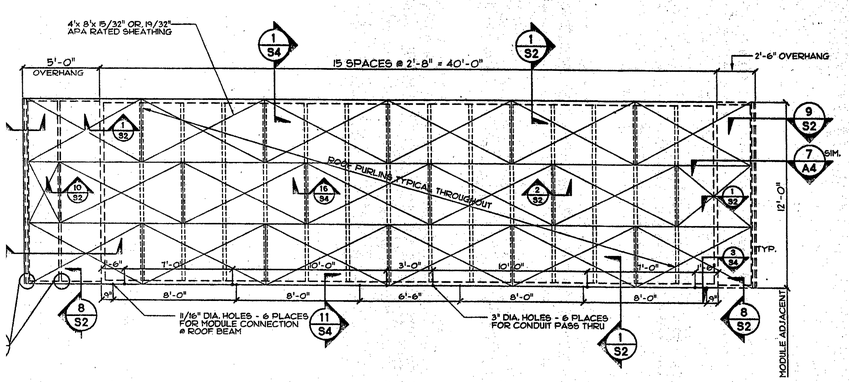
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

50 P.S.F. WOOD FOUNDATION PLAN FOOTING DETAILS - NOTES

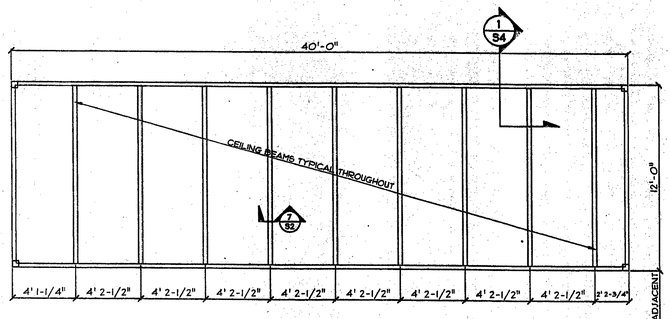
REVISION DATE:	BY:
DATE:	

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER & PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

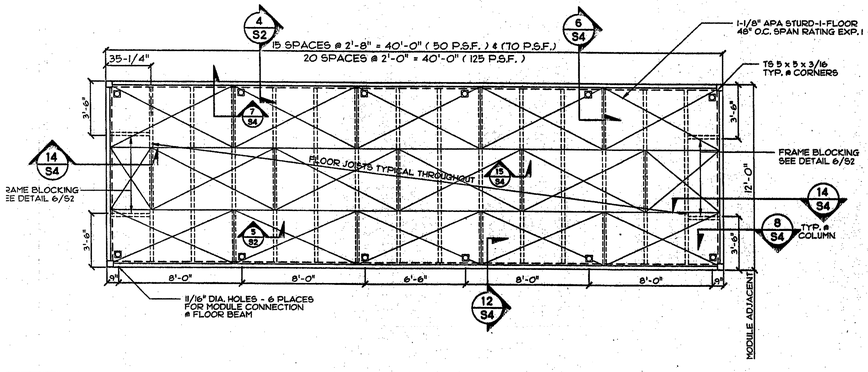
S1W50



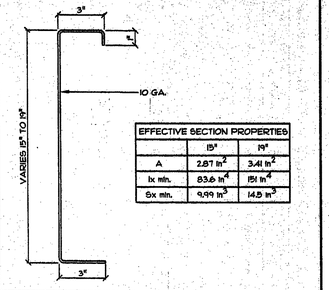
ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



CEILING FRAMING PLAN
SCALE: 1/4"=1'-0"

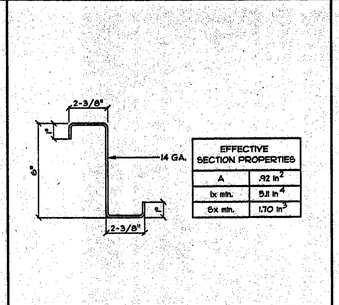


FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



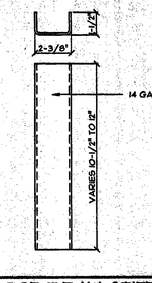
EFFECTIVE SECTION PROPERTIES		
	15"	19"
A	2.87 in²	3.41 in²
Ix min.	83.6 in⁴	151 in⁴
Sx min.	9.99 in³	14.5 in³

1 ROOF BEAM SECTION
SCALE: 3"=1'-0"

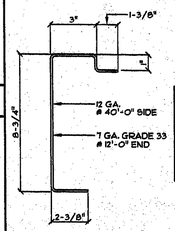


EFFECTIVE SECTION PROPERTIES	
A	.92 in²
Ix min.	.511 in⁴
Sx min.	1.70 in³

2 ROOF PURLIN SECTION
SCALE: 3"=1'-0"

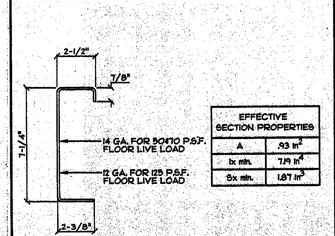


3 ROOF BEAM STIFFENER
SCALE: 3"=1'-0"



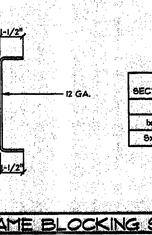
EFFECTIVE SECTION PROPERTIES		
A	1.49 in²	2.54 in²
Ix min.	16.2 in⁴	27.6 in⁴
Sx min.	3.44 in³	5.86 in³
GA.	12	7

4 FLOOR BEAM SECTION
SCALE: 3"=1'-0"



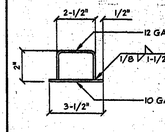
EFFECTIVE SECTION PROPERTIES	
A	.93 in²
Ix min.	7.19 in⁴
Sx min.	1.87 in³

5 FLOOR JOIST SECTION
SCALE: 3"=1'-0"



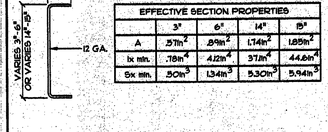
EFFECTIVE SECTION PROPERTIES	
A	.89in²
Ix min.	.412in⁴
Sx min.	1.34in³

6 FRAME BLOCKING SECTION
SCALE: 3"=1'-0"



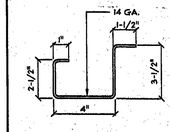
EFFECTIVE SECTION PROPERTIES	
A	.121 in²
Ix min.	.179 in⁴
Iy min.	.116 in⁴
Sx min.	.63 in³
Sy min.	.66 in³

7 CEILING BEAM SECTION
SCALE: 3"=1'-0"



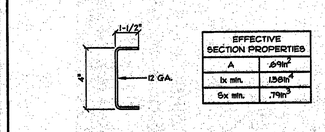
EFFECTIVE SECTION PROPERTIES				
	3"	6"	14"	15"
A	.571in²	.894in²	1.74in²	1.85in²
Ix min.	.781in⁴	4.12in⁴	37in⁴	44.6in⁴
Sx min.	.501in³	1.34in³	5.30in³	5.94in³

8 OVERHANG BEAM
SCALE: 3"=1'-0"



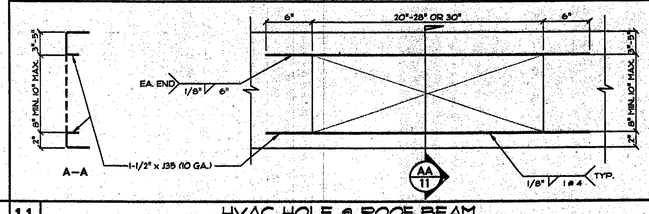
EFFECTIVE SECTION PROPERTIES	
A	.871in²
Ix min.	1.18in⁴
Sx min.	.69in³

9 GUTTER BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A	.691in²
Ix min.	1.58in⁴
Sx min.	.79in³

10 INTERMEDIATE CHANNELS
SCALE: 3"=1'-0"



11 HVAC HOLE @ ROOF BEAM
SCALE: 1-1/2"=1'-0"

1. ALL STRUCTURAL STEEL SHALL BE ASTM A570 GRADE 36, UNLESS OTHERWISE NOTED
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE B Fy=46.
3. HIGH STRENGTH BOLTS SHALL BE ASTM A325.
4. ALL MACHINE BOLTS SHALL BE ASTM A307.
5. WELDING SHALL BE DONE PER C.B.C. SECTION 2205A10 & AWS D 1.1 4D1.3.
6. WELDING INSPECTION TO BE PER C.B.C. SECTION 223A.5
7. SEE TESTS AND INSPECTIONS REPORT SHEET A0 FOR REQUIREMENTS.
7. LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	.1793"	.170"
10 GA. STEEL	.1345"	.128"
12 GA. STEEL	.1046"	.0994"
14 GA. STEEL	.0747"	.0710"

8. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS
9. PER C.B.C. SECTION 2217A

STEEL SPECIFICATION

1. ALL STRUCTURAL PLYWOOD SHALL BE MANUFACTURED TO C.B.C. STANDARD 23-2 (BASED ON PRODUCT STANDARD PS1-95.) AND INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.
2. ROOF SHEATHING SHALL BE 4'x 8'x 15/32" GRADE MARKED 32/16 SPAN INDEX, EXP.1 OR 19/32" GRADE MARKED 40/20 SPAN INDEX, EXP.1.
3. FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA RATED UNDERLAYMENT GRADE DOUGLAS FIR GROUP 1 STURD-I-FLOOR, SPAN RATING = 48".
4. WALL SHEATHING SHALL BE 3/8" MASONITE HARDBOARD SIDING APA EXTERIOR TYPE 303 GROUP 1 M.D.O. EXTERIOR GROUP 1 OR OPTIONAL 5/8" T1-11 APA EXTERIOR SIDING.
5. SEE 2/S3 FOR FASTENER SCHEDULE

SHEATHING / PLYWOOD SPECIFICATION

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 02 105136 ACCESS STLS / SS DATE 8/19/2002

PC

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 02-101236 AC RS SS DATE 11/19/02

DESIGN CRITERIA

ROOF: DEAD LOAD = 8.0 PSF
ROOF: LIVE LOAD = 20.0 PSF (SNOW)

FLOOR: DEAD LOAD = 8.0 PSF
FLOOR: LIVE LOAD = 50.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 70.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 125.0 PSF

WALLS: DEAD LOAD = 8.0 PSF
WIND: 80 MPH; EXPOSURE: C
qs=16.4 PSF; Cn=1.08; Cq AS REQ.
SEISMIC: ZONE 4, R=4.5, I_p=2.5, I_s=1.5, C_a=0.44, N_a=2.0, C_v=0.64, N_v=

12 APPROVALS

JH Lawder, Inc.
Structural Engineers
737 19TH STREET MODESTO, CA. 95354
(209) 521-1143 FAX (209) 521-1198

REGISTERED PROFESSIONAL ENGINEER JOHN H. LAWDER NO. 53310 EXP. 3-31-01 STRUCTURAL STATE OF CALIFORNIA

5/363

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

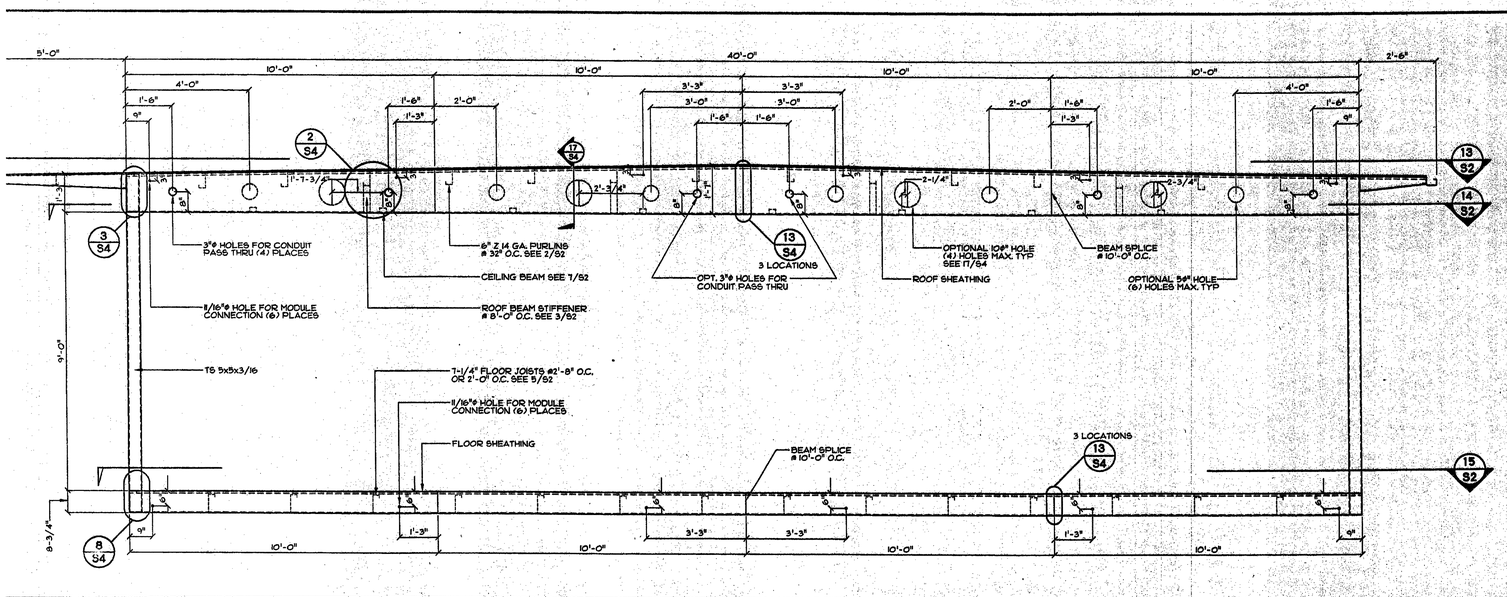
ROOF-CEILING-FLOOR FRAMING PLANS STRUCTURAL STEEL PROPERTIES - NOTES

REVISION DATE:	BY:

DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

S2



LONGITUDINAL TAPPERED ROOF BUILDING SECTION
SCALE: 1/2"=1'-0"

WALL TO FRAME FASTENING

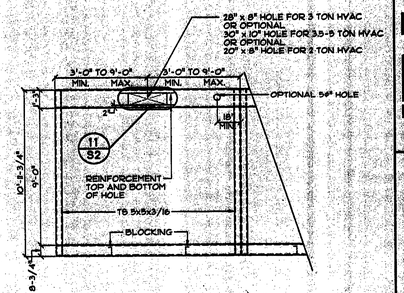
WALL PANEL TOP PLATE TO 3"x 1.91"x.119 PERIMETER ROOF BEAM.	(1)-1/4"ø x 3" LAG SCREW TO PENETRATE THRU ROOF BEAM AND TOP PLATE @ 15" O.C. MAX.
WALL PANEL BOTTOM PLATE TO FLOOR BEAM.	(1)-.135 x 3-1/4" @ 8" O.C. THRU BOTTOM PLATE & 1-1/8" FLOOR & TO PENETRATE FLOOR BEAM.
WALL PANEL SIDE STUDS TO TS 5x5x3/16 COLUMNS	#12-24 x 2-1/2" S.D.S. @ 16" O.C. THRU SIDE STUD TO PENETRATE THRU STEEL COLUMN.
TOP AND BOTTOM PLATE TO STUDS AND KING STUDS	(2) .135 x 3-1/4" LONG MACHINE NAIL
DOUBLE STUDS, TRIMMERS, SILLS AND CRIPPLES FACE NAILED	(1) .135 x 3-1/4" LONG MACHINE NAILS @12" O.C.
CRIPPLES, TRIMMERS END NAILED TO PLATES AND SILLS.	(2) .135 x 3-1/4" LONG MACHINE NAIL EA. END
CRIPPLES, TRIMMERS NAILED TO HEADERS.	(2) .135 x 3-1/4" LONG MACHINE NAIL
ALL HANGERS, STRAPS, CLIPS ETC.	TO BE NAILED AS PER MANUFACTURERS SPECIFICATIONS

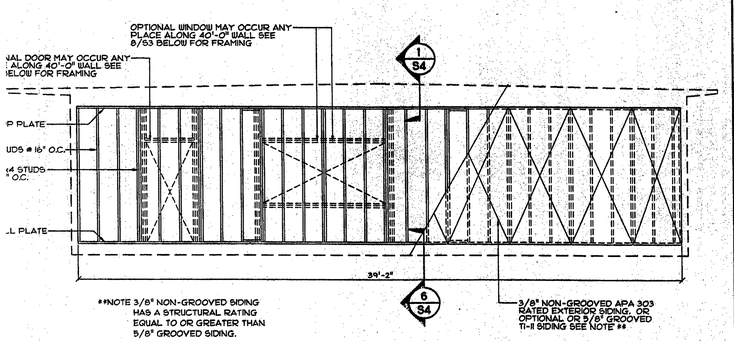
SHEATHING / PLYWOOD NAILING & NOTES

1. DO NOT CRUSH PLYWOOD FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE OR HAND NAILS.
2. UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
3. REMOVE AND REPLACE NAILS DRIVEN THAT MISS THE FRAMING OR SUPPORT.
4. ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
5. H.D.G.= HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. F.T. OF ZINC.

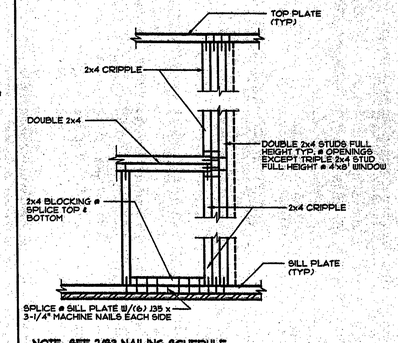
FLOOR		
1-1/8" APA RATED TAG STURDI-FLOOR TO BEAM & JOISTS	SHEET EDGES @ BEAM & JOIST	.144 x 1-3/4" PIN @ 6" O.C.
	FIELD @ JOIST	.144 x 1-3/4" PIN @ 10" O.C. (ICBO 4144)
ROOF		
15/32" APA RATED PLYWOOD TO PURLINS & BEAMS (OPT. 19/32" PLYWOOD ROOF.)	SHEET EDGES @ BEAM & PURLIN	.144 x 1-1/4" PIN @ 6" O.C.
	FIELD @ PURLIN	.144 x 1-1/4" PIN @ 12" O.C. (ICBO 4144)
SIDING		
3/8" EXTERIOR SIDING TO 2x4 STUDS	SHEET EDGES	.131" x 2-1/2" @ 6" O.C. H.D.G. NAILS
	FIELD	.131" x 2-1/2" @ 12" O.C. H.D.G. NAILS
DRYWALL		
1/2" GYP. BOARD TO 2x4 STUDS	SHEET EDGES	.121 x 1-1/2" COATED NAILS @ 6" O.C.
	FIELD	.121 x 1-1/2" COATED NAILS @ 6" O.C.
OVERHANG SOFFIT		
1/2" APA RATED SHEATHING	SHEET EDGES	#8 x 1" WOOD SCREW @ 6" O.C.
	FIELD	#8 x 1" WOOD SCREW @ 12" O.C.

2 NAILING SCHEDULE



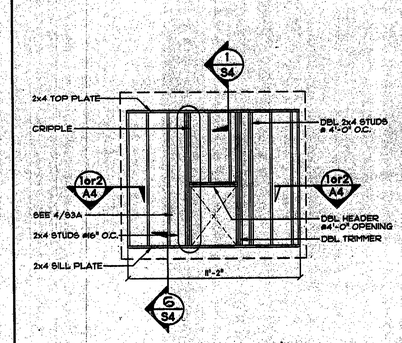


WALL FRAMING ELEVATION @ 40'-0" SIDE
SCALE: 1/4"=1'-0"



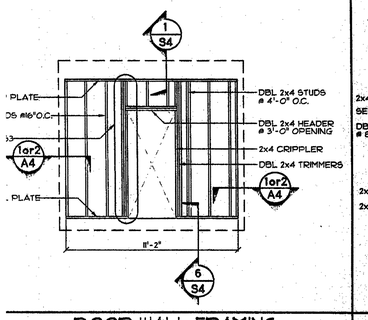
NOTE: SEE 2/S3 NAILING SCHEDULE

4 NAILING DETAIL
SCALE: 1"=1'-0"

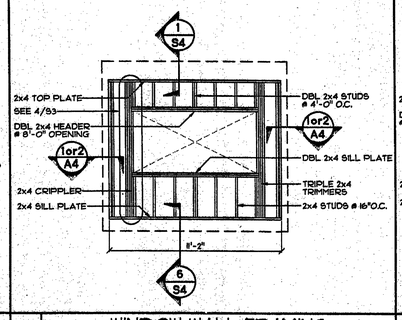


5 INTERIOR HVAC WALL FRAMING
SCALE: 1/4"=1'-0"

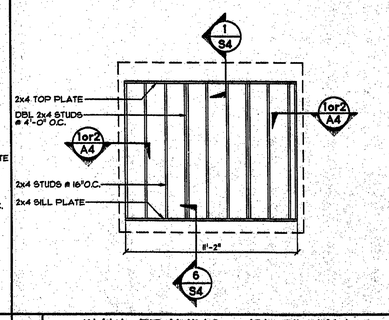
6 END FRAME ELEVATION
SCALE: 1/4"=1'-0"



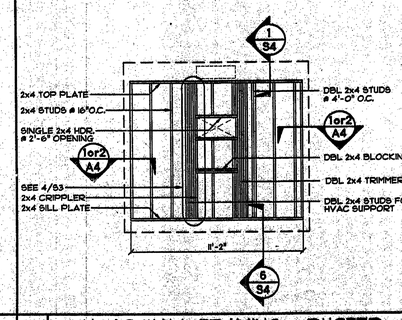
DOOR WALL FRAMING
SCALE: 1/4"=1'-0"



8 WINDOW WALL FRAMING
SCALE: 1/4"=1'-0"



9 WALL FRAMING @ 12'-0" WALL
SCALE: 1/4"=1'-0"



10 HVAC WALL FRAMING - DUCTED
SCALE: 1/4"=1'-0"

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
02 105136
AC FLS SS
DATE 5/31/07

PC

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
02-101236
AC FLS SS 1/30
DATE 11/17/06

DESIGN CRITERIA

ROOF: DEAD LOAD = 8.0 PSF
ROOF: LIVE LOAD = 20.0 PSF (SNOW)

FLOOR: DEAD LOAD = 8.0 PSF
FLOOR: LIVE LOAD = 50.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 70.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD = 125.0 PSF

WALLS: DEAD LOAD = 8.0 PSF
WIND: 80 MPH; EXPOSURE: C
qs=16.4 PSF; Cn=1.06; Cq AS REQ.
SEISMIC ZONE 4, I_p=1.5, C_p=0.4a_v, N_v=2.0, C_t=0.9a_v

11 APPROVALS

JH Lawder, Inc.
Structural Engineers
777 18th Street Modesto, Ca. 95354
(209) 524-1145 FAX (209) 521-1188

REGISTERED PROFESSIONAL ENGINEER JOHN H. LAWDER No. 52310 Exp 3-31-09 STRUCTURAL STATE OF CALIFORNIA
5/31/07

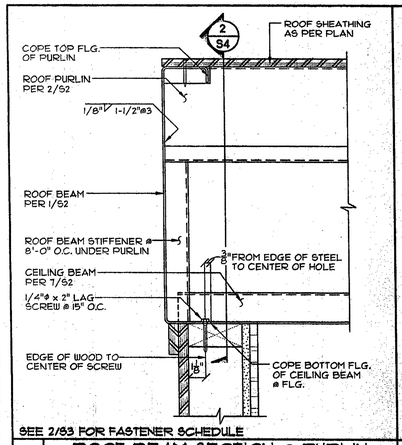
ENVIROPLEX, INC.
4772 E. CARPENTER ROAD STOCKTON, CA. 95215

LONGITUDINAL BUILDING SECTION
WALL FRAMING ELEVATIONS-END FRAME ELEVATION-NAIL SCHEDULE

REVISION DATE:	By:
DATE:	

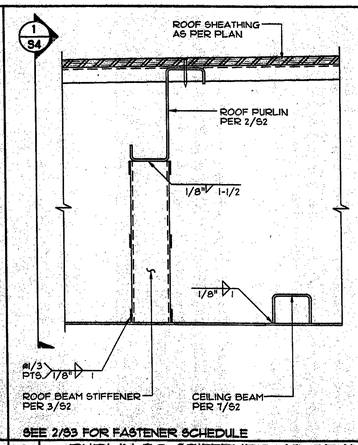
THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT., FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

S3



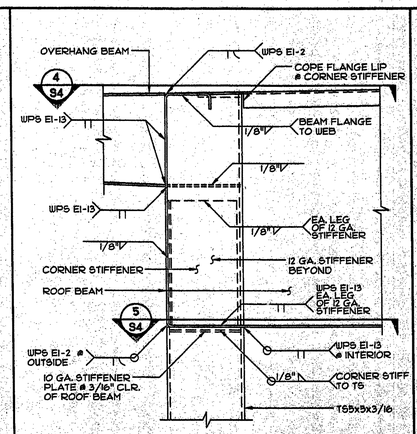
SEE 2/S3 FOR FASTENER SCHEDULE

1 ROOF BEAM SECTION @ PURLIN
SCALE: 3"=1'-0"

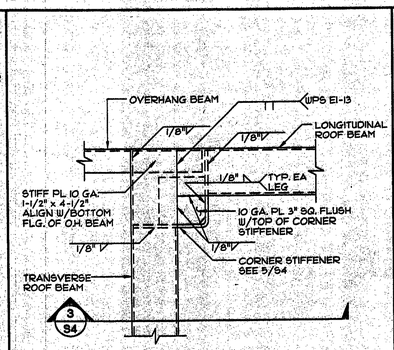


SEE 2/S3 FOR FASTENER SCHEDULE

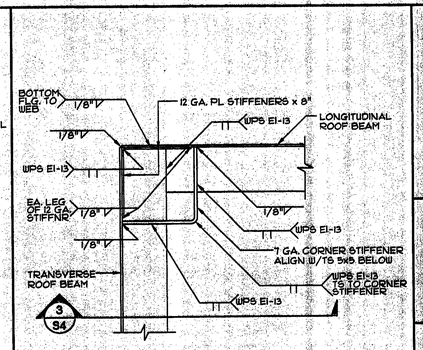
2 PURLIN TO STIFFENER AT BEAM
SCALE: 3"=1'-0"



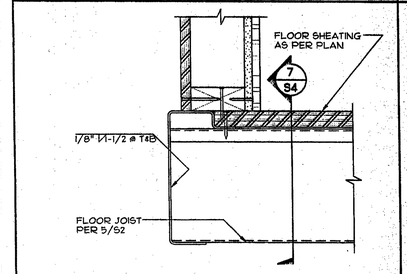
3 ROOF BEAM SECTION @ CORNER
SCALE: 3"=1'-0"



4 ROOF BEAM TOP FLANGE
SCALE: 3"=1'-0"

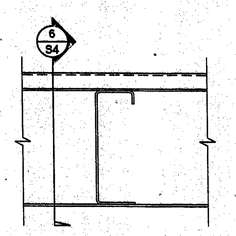


5 ROOF BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"

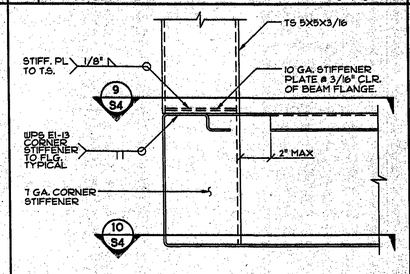


SEE 2/S3 FOR FASTENER SCHEDULE

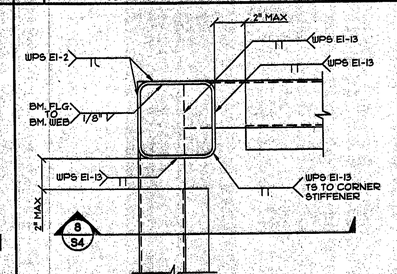
6 FLOOR BEAM @ JOIST CONNECTION
SCALE: 3"=1'-0"



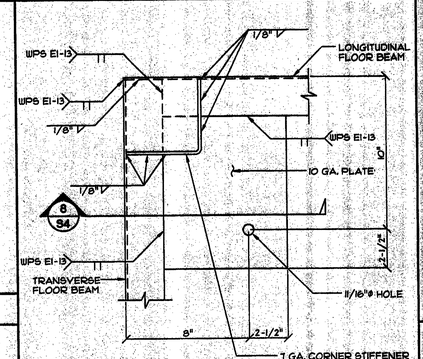
7 JOIST TO BEAM CONNECTION
SCALE: 3"=1'-0"



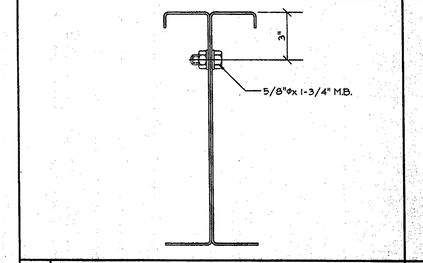
8 FLOOR BEAM SECTION @ CORNER
SCALE: 3"=1'-0"



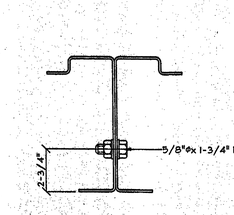
9 FLOOR BEAM TOP FLANGE
SCALE: 3"=1'-0"



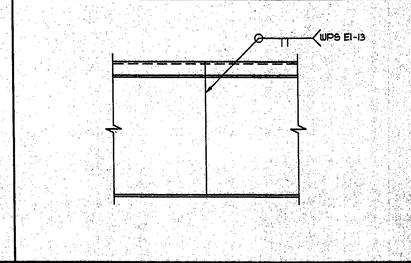
10 FLOOR BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"



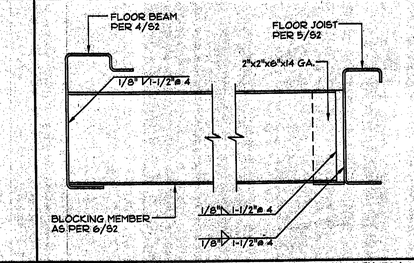
11 ROOF BEAM CONNECTION @ MOD LINE
SCALE: 3"=1'-0"



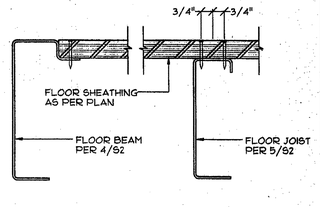
12 FLR BEAM CONNECTION @ MOD LINE
SCALE: 3"=1'-0"



13 BEAM SPLICE DETAIL
SCALE: 3"=1'-0"

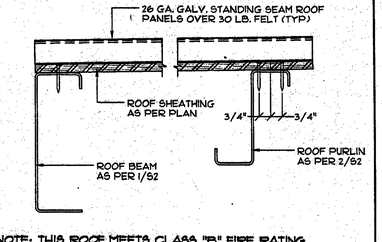


14 BLOCKING MEMBER CONNECTION
SCALE: 3"=1'-0"



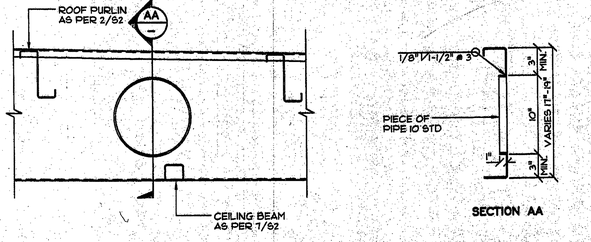
SEE 2/S3 FOR FASTENER SCHEDULE

15 FLOOR SHEATHING ATTACHMENT
SCALE: 3"=1'-0"



NOTE: THIS ROOF MEETS CLASS "B" FIRE RATING
SEE 2/S3 FOR FASTENER SCHEDULE

16 ROOF SHEATHING ATTACHMENT
SCALE: 3"=1'-0"



17 10"ø ROOF BEAM PENETRATION @ MOD-LINE
SCALE: 1-1/2"=1'-0"

18 APPROVALS

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
02 105136

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-101238
AC FLS SS
DATE 11/29/06

DESIGN CRITERIA

ROOF: DEAD LOAD – 8.0 PSF
ROOF: LIVE LOAD – 20.0 PSF (SNOW)
FLOOR: DEAD LOAD – 8.0 PSF
FLOOR: LIVE LOAD – 50.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD – 70.0 PSF
(OPTIONAL) FLOOR: LIVE LOAD – 125.0 PSF
WALLS: DEAD LOAD – 8.0 PSF
WIND: 80 MPH; EXPOSURE: C
qs=16.4 PSF; Ce=1.06; Cq AS REQ.
SEISMIC ZONE 4, I_P=1.5, D_P=2.5, R_I=1.5, C_a=0.44N, N_a=2.0, C_v=0.8N, N_v

JH Lawder, Inc.
Structural Engineers
777 16th STREET MODESTO, CA. 95354
(209) 521-1143 FAX (209) 521-1180

JOHN H. LAWDER
No. 32310
Exp. 9-21-08
STRUCTURAL
STATE OF CALIFORNIA

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

CONNECTION DETAILS

REVISION DATE:	BY:
11-16-01 WELD JOINTS PER WPS	LE

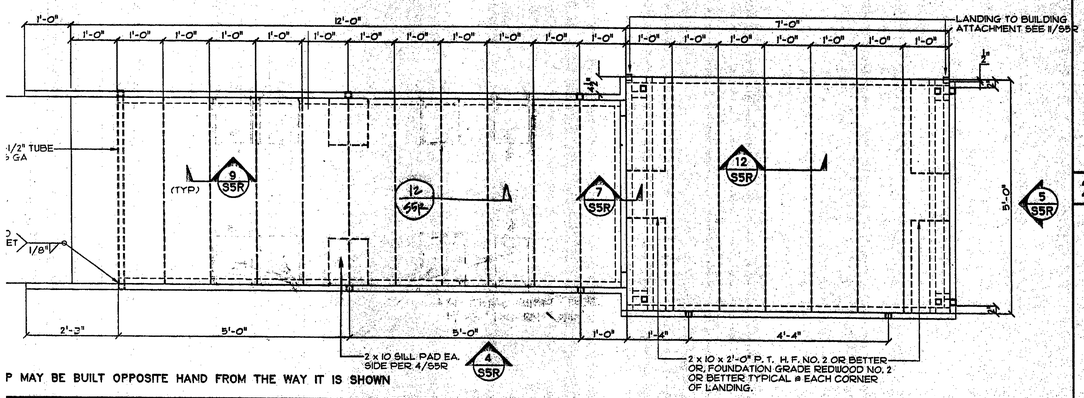
DATE:

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY AND ACCESS COMPLIANCE SECTION

S4

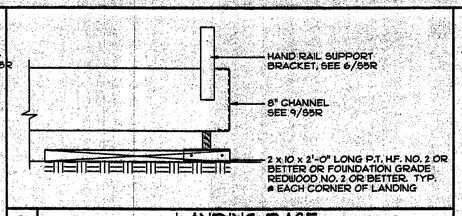
PC 2

DSA ACCESS COMPLIANCE NOTE: FLOOR HEIGHT MAY VARY FROM 12" TO 18" DEPENDENT UPON FOUNDATION AND SITE CONDITIONS. OWNER SHALL PROVIDE ADDITIONAL RAMP LENGTHS TO MAINTAIN 1" IN 12" SLOPE.

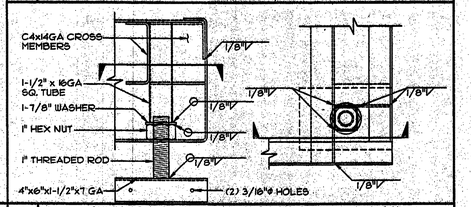


P MAY BE BUILT OPPOSITE HAND FROM THE WAY IT IS SHOWN

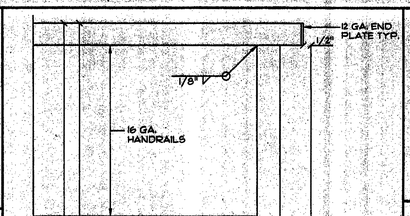
RAMP/LANDING FRAMING PLAN
SCALE: 3/4"=1'-0"



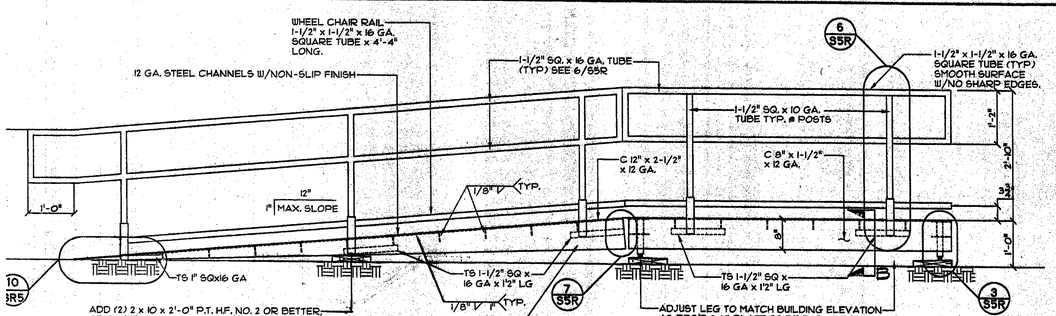
2 LANDING BASE
SCALE: 1-1/2"=1'-0"



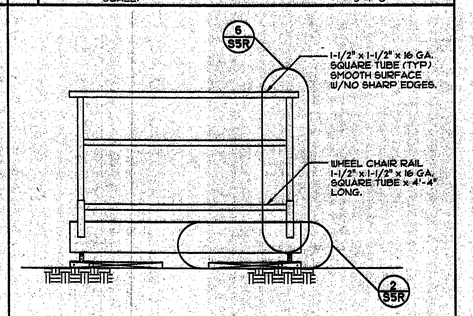
3 ADJUSTABLE LEG & BASE DETAIL
SCALE: 3"=1'-0"



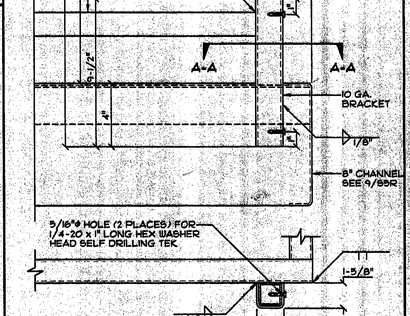
PLAN A-A



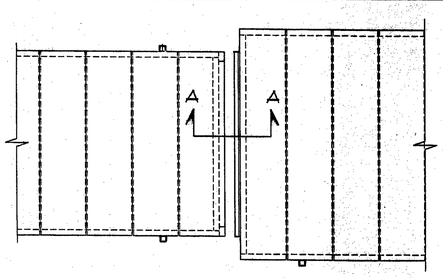
RAMP/LANDING SIDE ELEVATION
SCALE: 3/4"=1'-0"



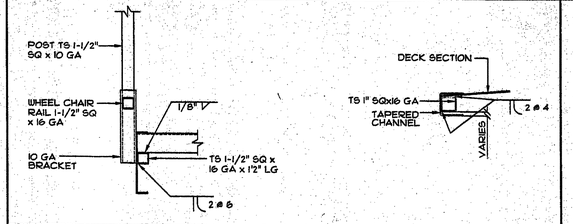
5 END ELEVATION
SCALE: 3/4"=1'-0"



6 HANDRAIL SUPPORT BRACKET
SCALE: 3"=1'-0"

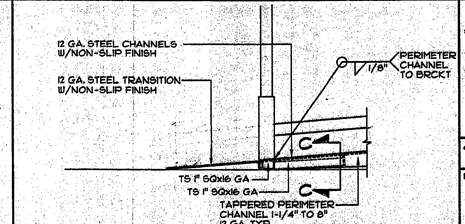


SECTION A-A
SCALE: 1-1/2"=1'-0"



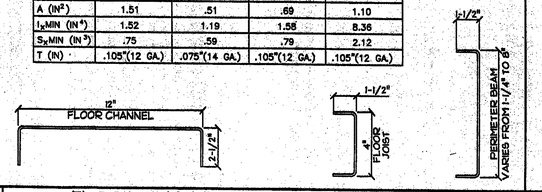
SECTION B-B
SCALE: 1-1/2"=1'-0"

SECTION C-C
SCALE: 3"=1'-0"

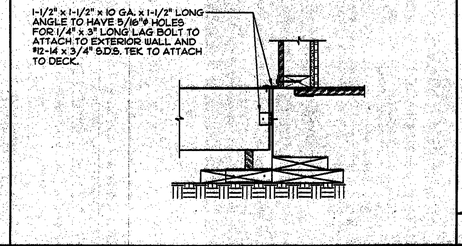


10 ø-CLEARANCE TRANSITION
SCALE: 1-1/2"=1'-0"

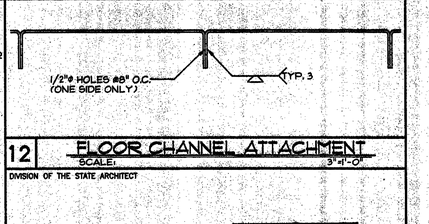
EFFECTIVE SECTION PROPERTIES				
FLOOR CHANNELS		FLOOR JOIST	PERIMETER BEAM	
	12"	4"	1-1/4"	8"
A (IN^2)	1.51	.51	.69	1.10
I_xMIN (IN^4)	1.52	1.19	1.58	8.36
S_xMIN (IN^3)	.75	.59	.79	2.12
T (IN) ·	.105"(12 GA.)	.075"(14 GA.)	.105"(12 GA.)	.105"(12 GA.)



FLOOR CHANNEL AND PERIMETER BEAM
SCALE: 3"=1'-0"



11 LANDING ATTACHMENT TO BUILDING
SCALE: 1-1/2"=1'-0"



12 FLOOR CHANNEL ATTACHMENT
SCALE: 3"=1'-0"

RAMP/LANDING ATTACHMENT BRACKETS
SCALE: 3/4"=1'-0" OR AS NOTED

13 APPROVALS

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP: DIV. OF THE STATE ARCHITECT 02-105136 AC FLS SS DATE 9/29/06

PC

IDENTIFICATION STAMP: DIVISION OF THE STATE ARCHITECT 02-101236 AC FLS SS DATE 7/11/99

DESIGN CRITERIA

RAMP: DEAD LOAD = 5.0 PSF

RAMP: LIVE LOAD = 100.0 PSF

JH Lawder, Inc. Structural Engineers
717 14th STREET MODESTO, CA. 95354
(209) 521-1143 FAX (209) 521-1181

JOHN H. LAWDER NO. 52310 EXP. 3-31-01 STRUCTURAL ENGINEER STATE OF CALIFORNIA

3/3(3)

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215

HANDICAP ACCESS RAMP

REVISION DATE:	BY:
DATE:	

THIS MODULAR BLDG. HAS BEEN ENGINEERED BY A REGISTERED STRUCTURAL ENGINEER AND PREVIOUSLY REVIEWED & APPROVED BY THE DIVISION OF THE STATE ARCHITECT, FIRE & LIFE SAFETY, AND ACCESS COMPLIANCE SECTION

S5R

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

2019 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC).

***NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. PI – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

	17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Material Verification and Testing:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	"	Table 1705A.2.1 Items 5a–7a; 2202A.1; AISI S100-16 Section A3.1 & A3.2; AISI S240-15 Section A3 & A5; AISI S220-15 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☐	b. Test unidentified materials	Test	LOR	2203A.1.
☐	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
Inspection:				
☐	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for **trusses (1705A.2.4).**

	18. HIGH-STRENGTH BOLTS: RCSC 2014			
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	**Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1,** and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

☐	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; AISC 2014 Section 7.2; DSA IR 17-8.
Inspection of High-Strength Bolt Installation:				
☐	c. Bearing-type ("snug tight") connections.	Periodic	SI	**Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J1.1, J3.2,** M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☐	d. Pretensioned and slip-critical connections.	"	SI	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J1.1,** J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used.

	19. WELDING:	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3 (See Appendix for exemptions.)		
Verification of Materials, Equipment, Welders, etc.:				
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	DSA IR 17-3.
☐	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☐	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

	19.1 SHOP WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1-4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	**1705A.2.1, Table 1705A.2.1 Items 5a.8 & 6a.6; AISC 360-16 (and AISC** 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e. Inspect welding of reinforcing steel.	Continuous	SI	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

	19.2 FIELD WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Item 5a.1-4; AISC 360-16; AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16; AISC 341-16 as applicable); DSA IR 17-3.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

☐	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2; Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3; The quality control provisions of AISI S240-15 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. Inspect welding of reinforcing steel.	Continuous	SI	**Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3.

	20. NONDESTRUCTIVE TESTING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2; AISC 360-16 N5.5; ANSI/ ASNT CP-189, SNT-TC-1A; AWS D1.1; AWS D1.8; DSA IR 17-2.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

☐	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J8.2; AISC 360-16 N5.2; ANSI/ ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	21. STEEL JOISTS AND TRUSSES: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-01 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

	22. SPRAY APPLIED FIRE-PROOFING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	**1705A.14.**
☐	b. Test bond strength.	Test	LOR	**1705A.14.6.**

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

☐	c. Test density.	Test	LOR	**1705A.14.5.**

	23. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles) not supporting signs, open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structures or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	Welding:
☐	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 16'-0", such as in interior partitions, interior soffits, etc, supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 10' tall wall for laveable or kong stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Alton, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

☐	6. TV Brackets, projector mounts with overall listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 located in the Steel Aluminum category).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof: <200# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS/(SIGNATURE), 2019 CBC

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends agreement using secured electronic or digital signatures.

DSA STAMP

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

Application Number: 04-119501 | School Name: ACCESSIBLE STEEL RAMP LANDING STAIRS | School District: TMP SERVICES INC.
DSA File Number: | Increment Number: | Date Created: 2021-09-03 18:44:27

☐ Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

"CONSTRUCTION OF" AND "STOCKPILE OF" EXAMPLE DSA 103 FORM (DSA 103 FORM NOT REQUIRED FOR RELOCATION OF CERTIFIED RAMP & LANDING).

THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

TMP SERVICES DSA RAMP & LANDING - STEEL SHEET 1.DWG

TMP SERVICES

2929 KANSAS AVE.
RIVERSIDE, CA 92507
(951) 213-3900
FAX (651) 213-3997

PC ACCESSIBLE RAMPS/ LANDINGS/STAIRS

STATE OF CALIFORNIA - 2018 IBC/2019 CBC

NOTES:

LOADS:

1. RAMP LIVE LOAD = 100 PSF
2. NO SNOW LOADING
3. NO FLOOD LOADING
4. WIND:
   WIND SPEED = 130 MPH
   RISK CATEGORY = II
   EXPOSURE = C
   K_{ZT}= 1.0
   WIND DESIGN PER ASCE 7-16 CHAPTER 29
5. SEISMIC:
   RISK CATEGORY = II
   I_e = 1.0
   S_S = 3.73
   S_1 = 1.30
   SITE CLASS = D
   S_{DS}= 2.984
   C_S = 1.119 (ASCE 7-16 EQUATION 15.4-2)
   R = 3.25 (ASCE 7-16 TABLE 15.4-1)
6. ALLOWABLE SOIL BEARING = 1000 PSF
7. THIS PC CANNOT BE USED IN WILDLAND URBAN INTERFACE (WUI) AREAS.

CODES: (TITLE 24 CODES)

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)....(PART 1, TITLE 24, CCR)

2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2018 EDITION INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2019 EDITION INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN CODE (CFC), (PART 9, TITLE 24, CCR)

2019 CALIFORNIA REFERENCED CODE, (PART 12, TITLE 24, CCR)
NFPA 13 2016
NFPA 72 2016

2019 CODE SECTIONS FOR APPLICABLE STANDARDS
2019 CBC, CHAPTER 35

TABLE OF CONTENTS

Sheet No.	Description	Dated	Revised
1	COVER SHEET	03 FEB 2020	
2	ACCESSIBLE RAMP ELEVATIONS & DETAILS	03 FEB 2020	
3	ACCESSIBLE RAMP DETAILS & NOTES	03 FEB 2020	
4	DETAILS & NOTES	03 FEB 2020	
5	ACCESSIBLE RAMP SWITCH BACK DETAILS	03 FEB 2020	
6	STAIRS - OPTIONAL	03 FEB 2020	
7	ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK	03 FEB 2020	
8	ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS	03 FEB 2020	

ALTERNATE RAMPS/LANDINGS/STAIRS

Sheet No.	Description	Dated	Revised
1A	COVER SHEET	03 FEB 2020	
2A	ACCESSIBLE RAMP ELEVATIONS & DETAILS	03 FEB 2020	
3A	ACCESSIBLE RAMP DETAILS & NOTES	03 FEB 2020	
4A	DETAILS & NOTES	03 FEB 2020	
5A	ACCESSIBLE RAMP SWITCH BACK DETAILS	03 FEB 2020	
6A	STAIRS - OPTIONAL	03 FEB 2020	
7A	ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK	03 FEB 2020	
8A	ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS	03 FEB 2020	

DSA APPROVALS

STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

COVER SHEET

TMP SERVICES
2929 KANSAS AVE
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

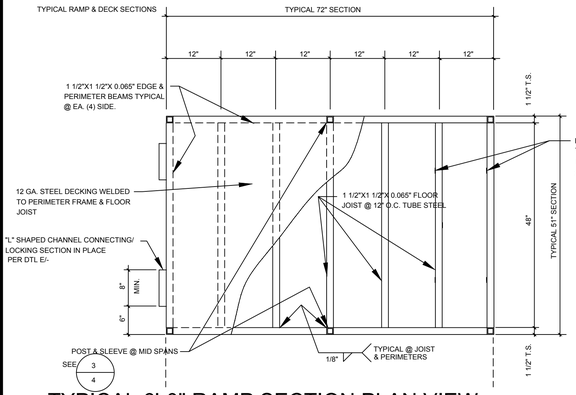
STATE OF CALIFORNIA -2019 CBC

PC

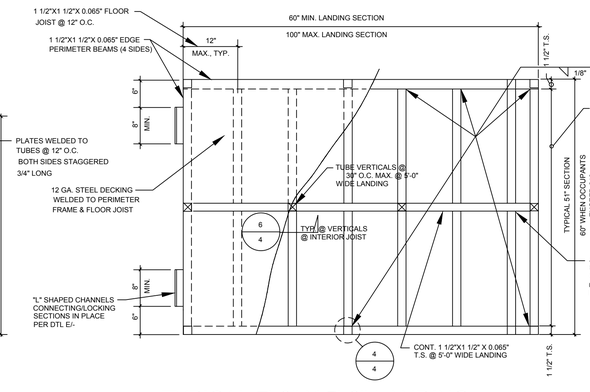
DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

1

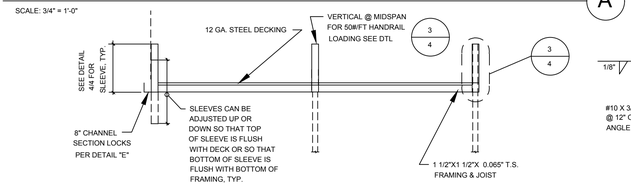
1 OF 16 SHEETS



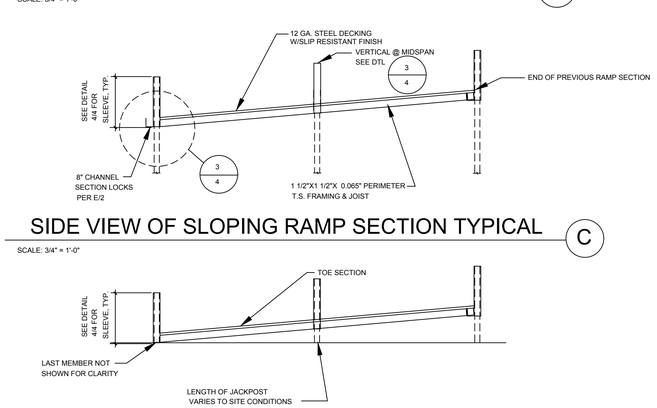
TYPICAL 6'-0" RAMP SECTION PLAN VIEW (A)



TYPICAL 7'-0" X 5'-0" LANDING (G)

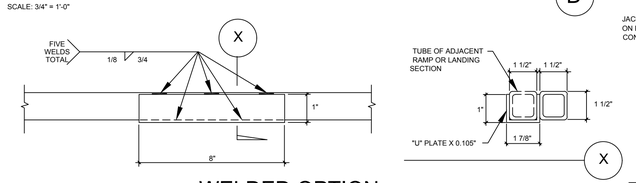


SIDE/END VIEW OF LEVEL DECK SECTION (B)

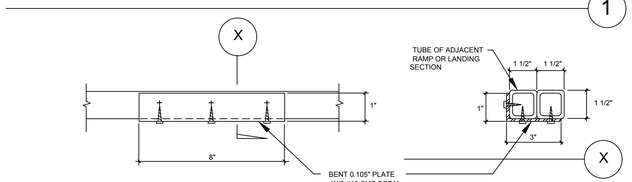


SIDE VIEW OF SLOPING RAMP SECTION TYPICAL (C)

TOE SECTION (D)

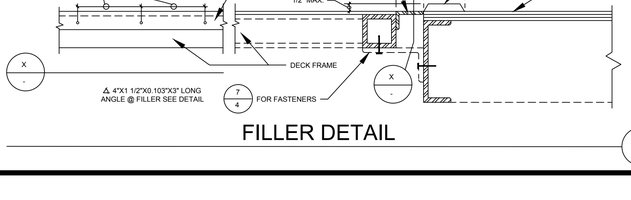


WELDED OPTION (X 1)

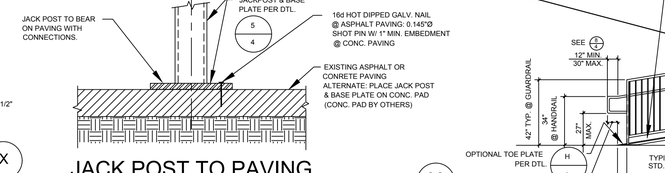


SMS OPTION (X 2)

8" CHANNEL SECTION (E)



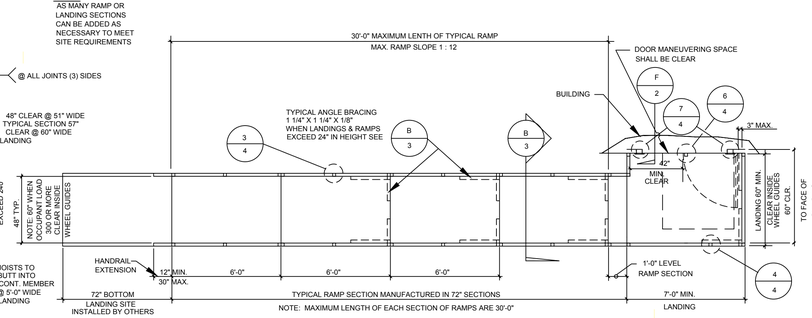
ALTERNATE WOOD SILLS @ JACK POST TO GRADE WHERE CONCRETE OR AC PAVING DOES NOT OCCUR (J)



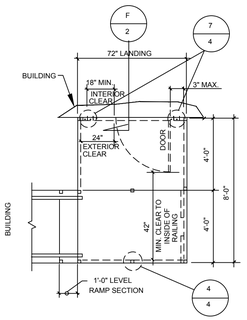
JACK POST TO PAVING (JA)

FILLER DETAIL (F)

NOTE:
AS MANY RAMP OR LANDING SECTIONS CAN BE ADDED AS NECESSARY TO MEET SITE REQUIREMENTS

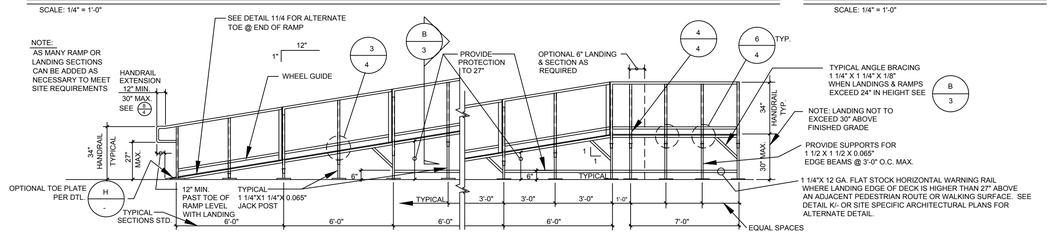


TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT



OPTIONAL LANDING

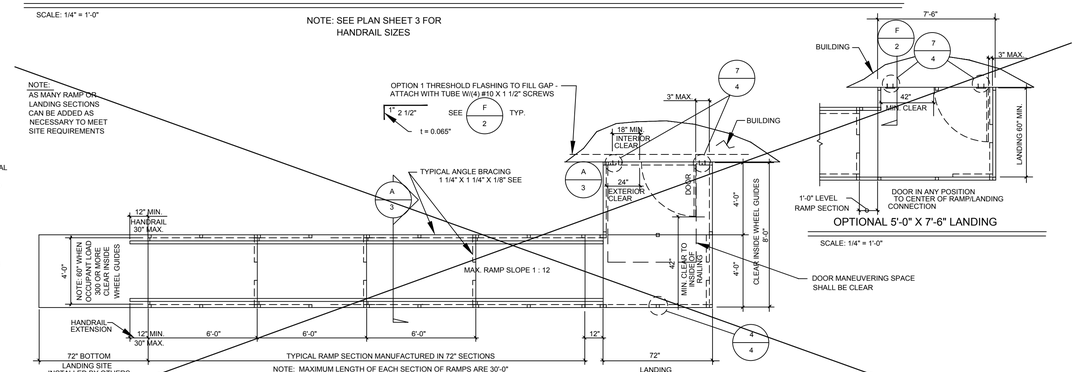
SCALE: 1/4" = 1'-0"



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS

SCALE: 1/4" = 1'-0"

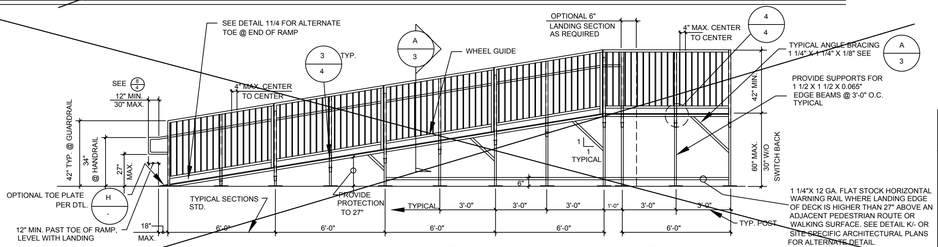
NOTE: SEE PLAN SHEET 3 FOR HANDRAIL SIZES



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN

OPTIONAL 5'-0" X 7'-6" LANDING

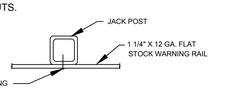
SCALE: 1/4" = 1'-0"



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING

NOTE: 1. SEE PLAN SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES

2. PROVIDE INTERMEDIATE LANDINGS AND SWITCH BACK OR MULTIPLE RAMP SECTIONS AS REQUIRED WHERE ELEVATION DIFFERENCE AT RAMP EXCEEDS 30" MAX. RISE, SEE SHEET 5 FOR OPTIONAL RAMP/LANDING LAYOUTS.



(K)

PROPRIETARY DESIGN: THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF TMP SERVICES, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND CONSENT OF TMP SERVICES, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMP SERVICES, INC.

EXL STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710
MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-119501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

ACCESSIBLE RAMP ELEVATIONS & DETAILS

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

DSA APPROVALS

SITE:

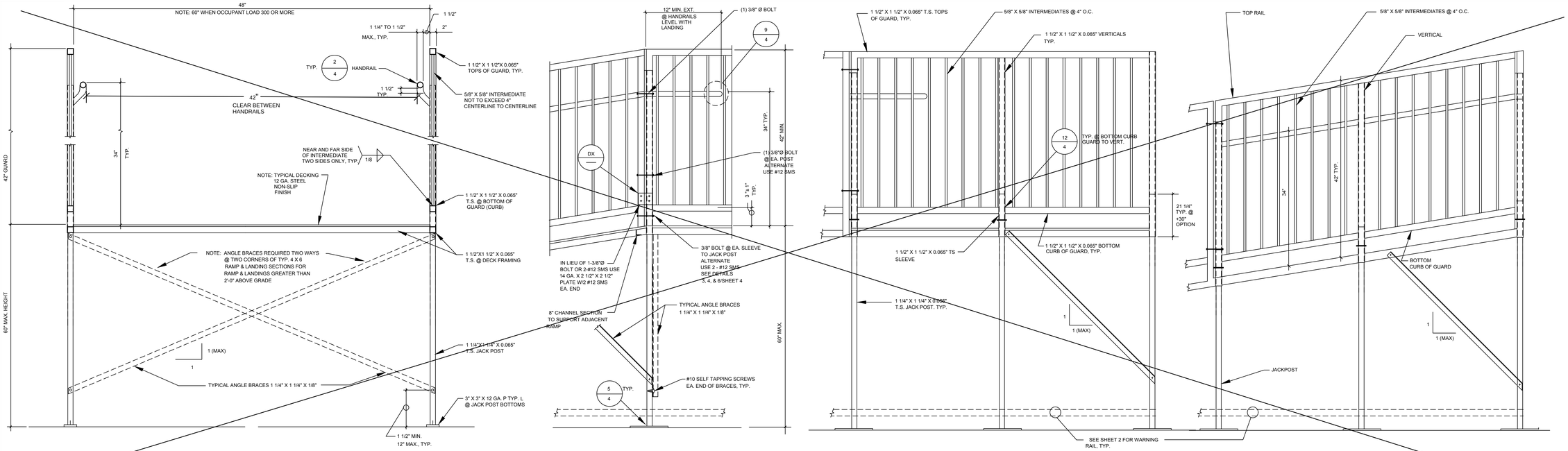
STATE OF CALIFORNIA
-2019 CBC
PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

2

2 OF 16 SHEETS

TMP DSA RAMP AND LANDING STEEL SHEET 2.DWG

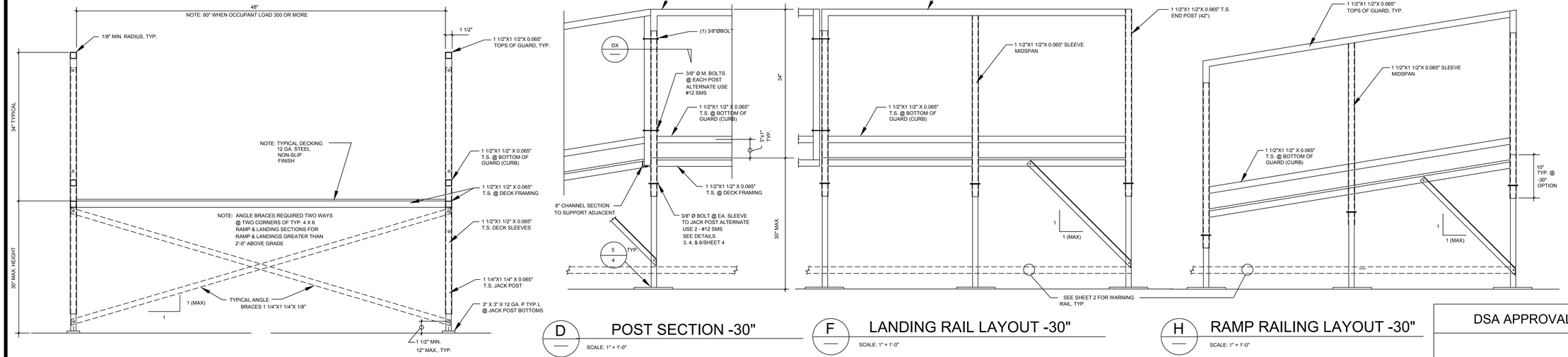


A — TYPICAL CROSS SECTIONS +30"
SCALE: 1" = 1'-0"

C — POST SECTION +30"
SCALE: 1" = 1'-0"

E — LANDING RAIL LAYOUT +30"
SCALE: 1" = 1'-0"

G — RAMP RAILING LAYOUT +30"
SCALE: 1" = 1'-0"

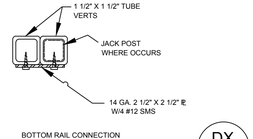


B — TYPICAL CROSS SECTIONS -30"
SCALE: 1" = 1'-0"

D — POST SECTION -30"
SCALE: 1" = 1'-0"

F — LANDING RAIL LAYOUT -30"
SCALE: 1" = 1'-0"

H — RAMP RAILING LAYOUT -30"
SCALE: 1" = 1'-0"



BOTTOM RAIL CONNECTION — DX
NO SCALE

PROPRIETARY DESIGN: THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF TMP SERVICES, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND CONSENT OF TMP SERVICES, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMP SERVICES, INC.

STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710
MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

DSA APPROVALS

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-118501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

ACCESSIBLE RAMP DETAILS & NOTES

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

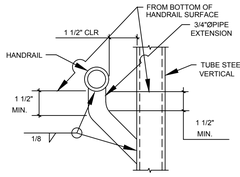
STATE OF CALIFORNIA -2019 CBC
PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

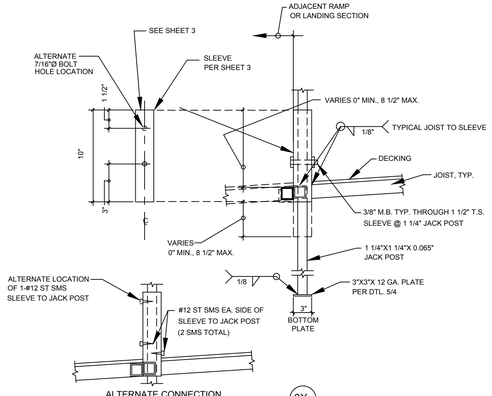
3

3 OF 16 SHEETS

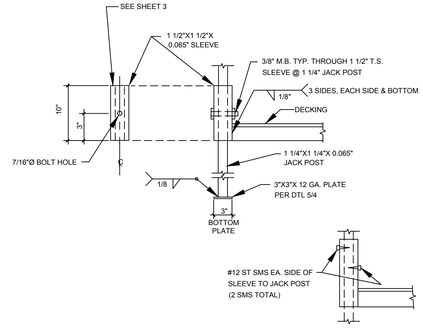
TMP DSA RAMP & LANDING STEEL SHEET 3.DWG



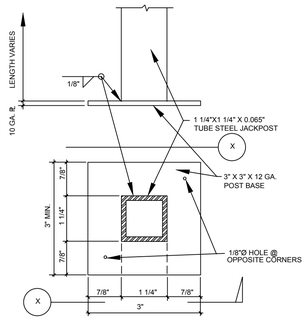
2/4 TYPICAL HANDRAIL ARMS



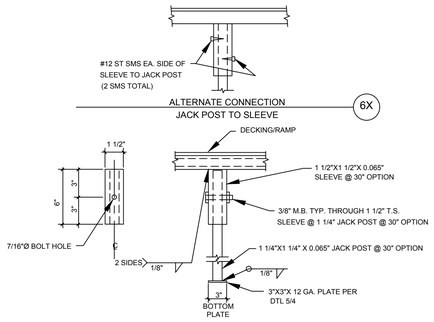
3/4 RAMP POST SLEEVES 1 1/2" T.S.



4/4 LANDING POST SLEEVES 1 1/2" T.S.

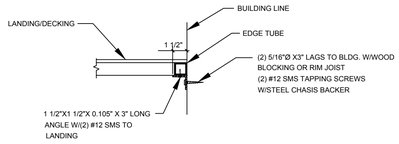


5/4 POST BASE



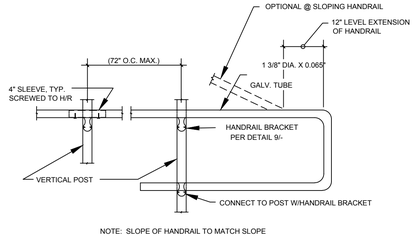
6/4 MID SPAN POST

NOTE: USE 2" X 2" X 0.12" SLEEVE AND 1 1/2"X1 1/2"X 0.065" JACK POST @ ABOVE 30" OPTION



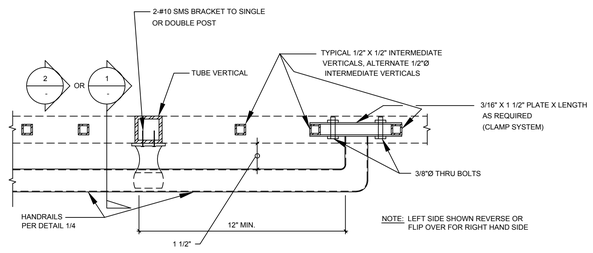
7/4 LANDING TO BUILDING

NOTE: DECK SECTIONS ARE FREE STANDING FOR VERTICAL LOADS.



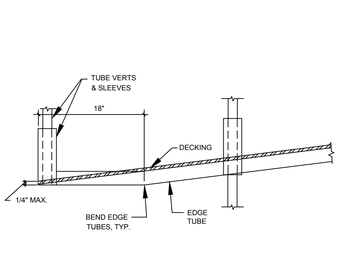
NOTE: SLOPE OF HANDRAIL TO MATCH SLOPE OF RAMP OR LANDING SEE SHEET 2.

8/4 OPTIONAL CONNECTION @ HANDRAIL DETAIL



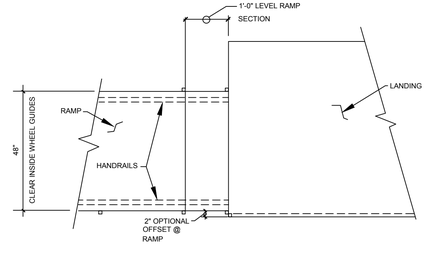
OPTIONAL HANDRAIL DETAIL @ TOP OF STAIRS OR RAMPS

9/4



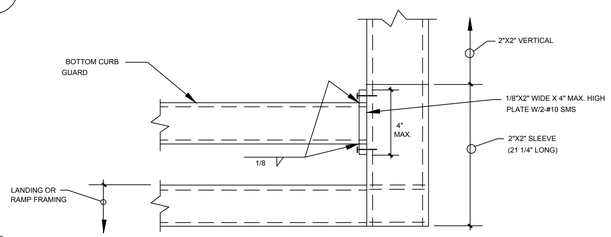
10/4 TOE @ END OF RAMP

NO SCALE



11/4

NO SCALE



12/4

NOTES:

CODES:
2019 CALIFORNIA BUILDING CODE (CBC)

DESIGN LOADS:
LIVE LOAD: 100 PSF
WIND LOAD: SEE SHEET 1
SEISMIC: SEE SHEET 1
HANDRAIL & GUARD RAIL LOADS:
50#/FT
200# POINT LOAD

MATERIAL SPECIFICATIONS:
STEEL: ALL TUBE STEEL ASTM A-1008 CS TYPE A OR B (Fy = 40 KS1)
ALL SHEET, ANGLES, PLATE ETC. TO BE A1011SS GRADE 40
ALL STEEL TO BE COATED WITH A RUST INHIBITIVE COATING
BOLTS: ASTM A307 COMMON BOLTS HOT DIPPED GALVANIZED W/ STAINLESS STEEL WASHERS
PLYWOOD OPTION: APA RATED STRUCT I EXTERIOR PLYWOOD
WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY
D-1.3-2008 FOR SHEET STEEL.
ELECTRODES SHALL BE E70XX.

GENERAL NOTES:
1) RAMPS HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30" OF RISE, PER CBC 11B-405.7.

2) LOCATION OF LANDINGS.
LANDINGS SHALL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP. INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30 INCHES OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION . LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP.

NOTE: EXAMPLES OF RAMP DIMENSIONS ARE:

SLOPE	MAX. RISE (INCHES)	MAX. HORIZONTAL PROJECTION
1:12	30	30'-0"
1:16	30	40'-0"
1:20	30	50'-0"
1:15	30	37'-6"

2. SIZE OF TOP LANDINGS. TOP LANDINGS SHALL NOT BE LESS THAN 60 INCHES WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60 INCHES IN THE DIRECTION OF RAMP RUN, PER CBC 11B-405.7.2 AND .3.

3) DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED, CBC 11B-405.7.5.

4) RAMPS SHALL BE CONSTRUCTED AS REQUIRED FOR STAIRWAYS.

5) THE SURFACE OF RAMPS SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL, TYP. FOR LANDINGS & STAIRS.

6) RAMPS REQUIREMENTS SHALL BE PER CBC 11B-405.

7) RAMPS AND STAIRWAYS USED AS EXIT SHALL CONFORM TO CBC SEC. 1009 SEC. 1010, CHAPTER 11B AND 11B-405.5.

8) HANDRAILS AND GUARDRAILS SHALL CONFORM TO CBC 11B-405.8 (RAMP), AND 11B-504 (STAIRS).

9) RAMPS SHALL CONFORM TO CBC 11B-405.

10) STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS.

11) LANDING WIDTH. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR RAMPS, CBC 11B-405.7.4.

12) THE WIDTH OF RAMPS SHALL BE AS REQUIRED PER STAIRWAYS AND EXITS, CBC 11B-405.5.

13) SLOPE RAMPS AND LANDINGS AS REQUIRED TO PREVENT ACCUMULATION OF WATER ON WALKING SURFACES.

14) ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).

15) CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1 TITLE 24, CCR.

16) A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4.342 PART 1 TITLE 24 CCR.

IN PLANT: SHOP WELDING INSPECTION AND MATERIAL VERIFICATION

SITE CONSTRUCTION: CLASS 4

DSA APPROVALS

STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-118501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

DETAILS AND NOTES

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

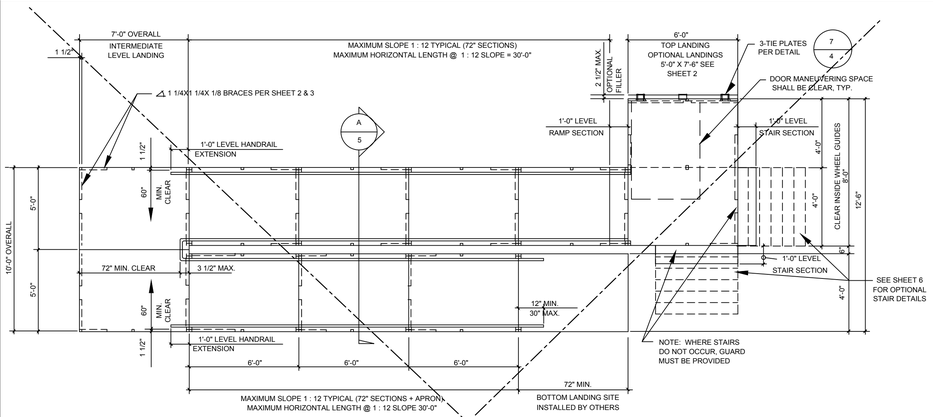
SITE:
STATE OF CALIFORNIA
-2019 CBC
PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

4

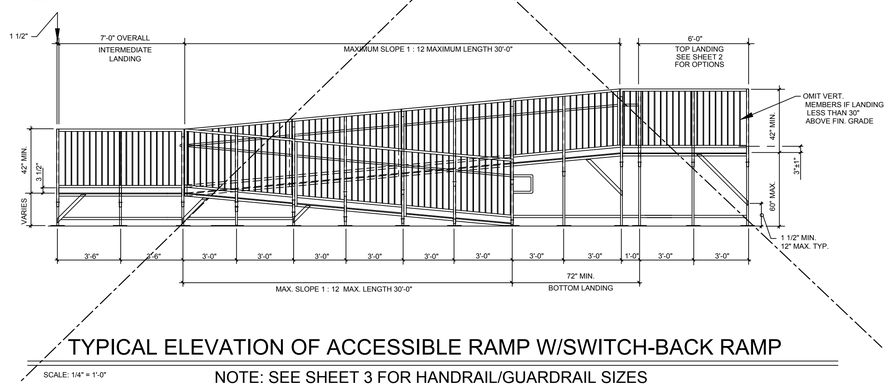
4 OF 16 SHEETS

TMP DSA RAMP & LANDING STEEL SHEET 4.DWG



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

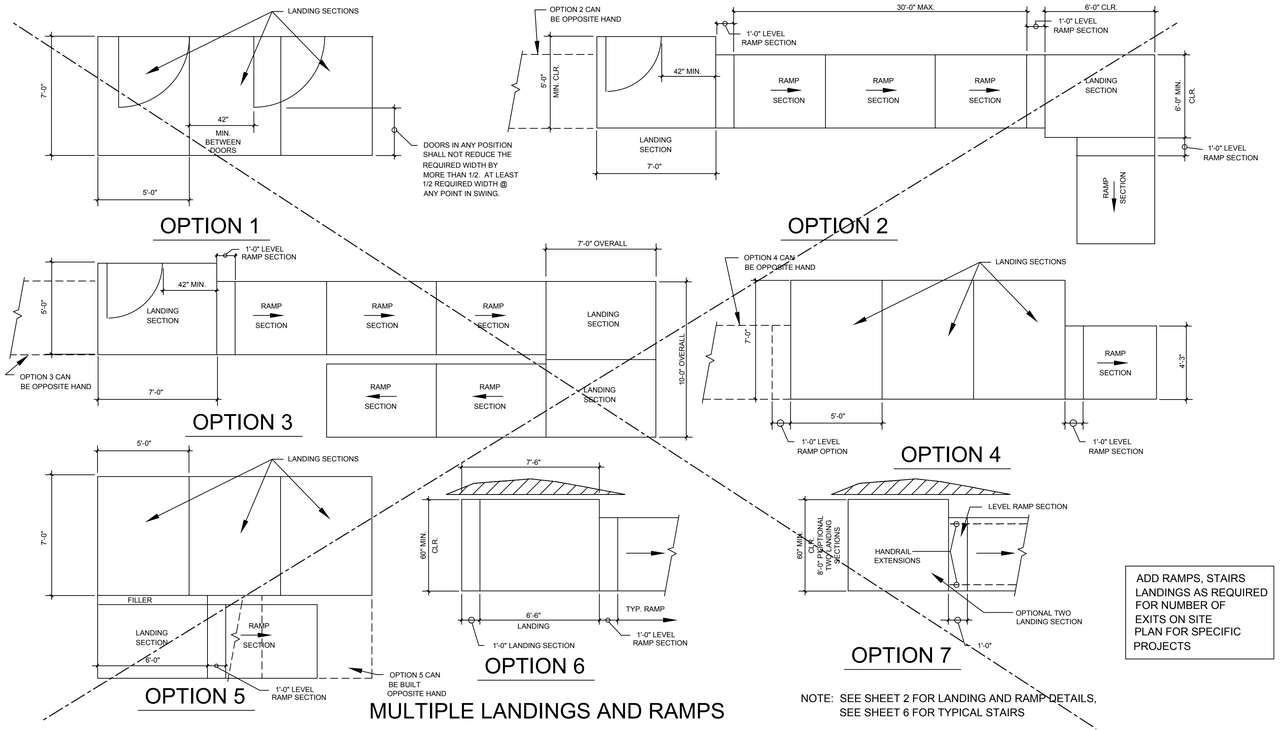
SCALE: 1/4" = 1'-0"



TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP

SCALE: 1/4" = 1'-0"

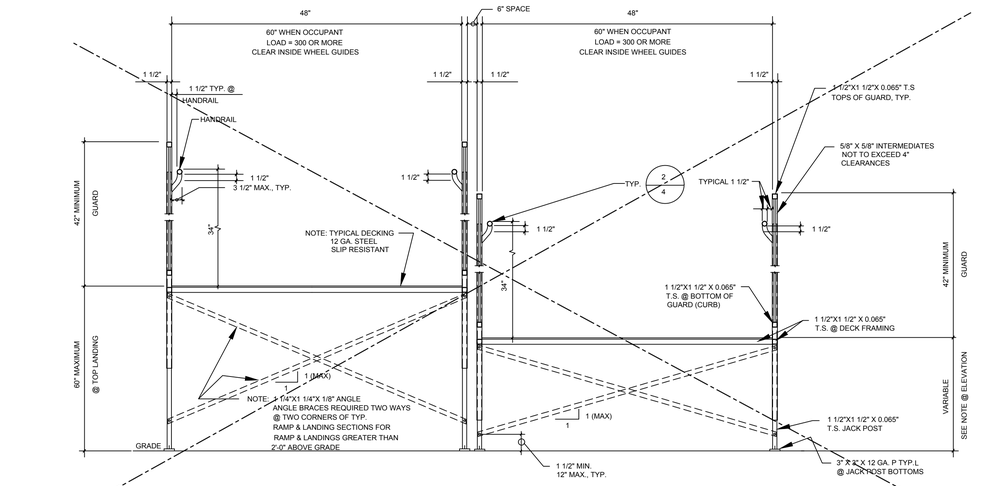
NOTE: SEE SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES



MULTIPLE LANDINGS AND RAMPS

ADD RAMPS, STAIRS LANDINGS AS REQUIRED FOR NUMBER OF EXITS ON SITE PLAN FOR SPECIFIC PROJECTS

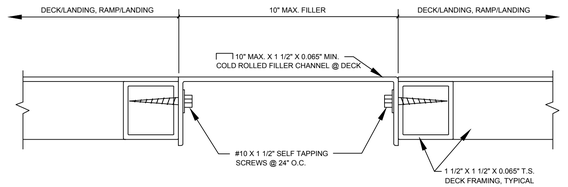
NOTE: SEE SHEET 2 FOR LANDING AND RAMP DETAILS, SEE SHEET 6 FOR TYPICAL STAIRS



A

TYPICAL CROSS SECTIONS

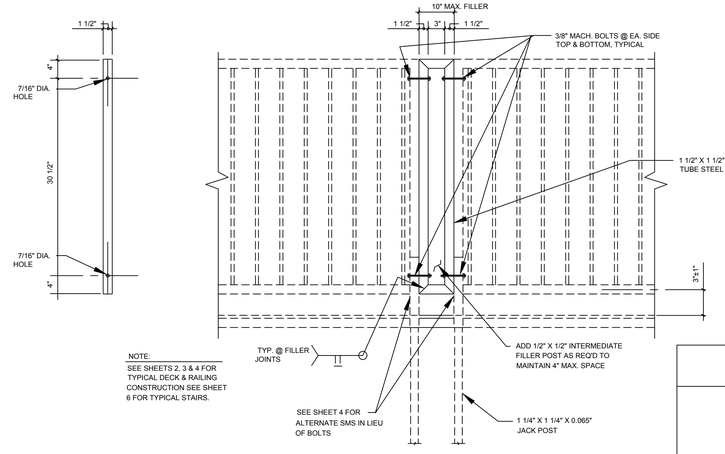
SCALE: 1/4" = 1'-0"



B

TYPICAL DECK CROSS SECTION

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



C

TYPICAL GUARDRAIL FILLER

SCALE: 3/4" = 1'-0"

PROPRIETARY DESIGN: THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF TMP SERVICES, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND CONSENT OF TMP SERVICES, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMP SERVICES, INC.

EXL
STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710
MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234

DSA APPROVALS

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED January 7, 2021

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-118501 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 02/09/2021

ACCESSIBLE RAMP SWITCHBACK DETAILS

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213 3997

SITE:

STATE OF CALIFORNIA -2019 CBC PC

DRAWN
CHECKED
DATE 03 FEB 2020
SCALE
JOB NO.

5

5 OF 16 SHEETS

TMP DSAMAMP & LANDING STEEL SHEET 5.DWG