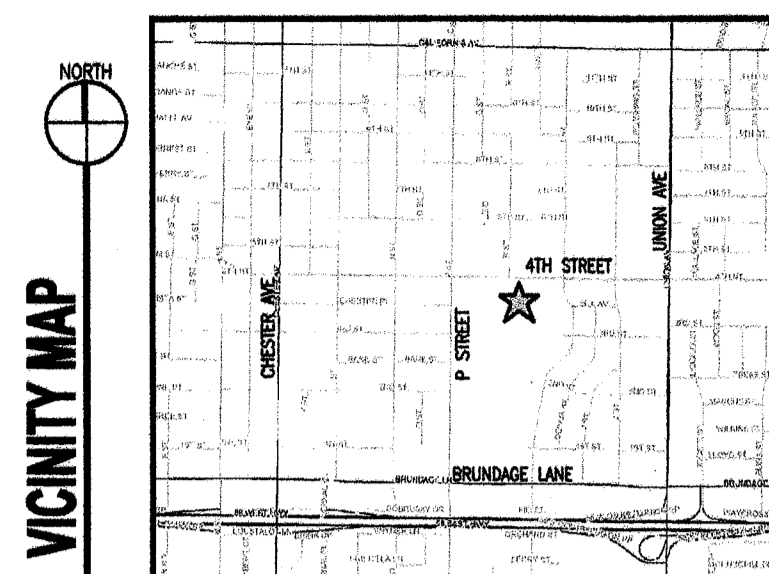




McKINLEY ELEMENTARY PERMANENT MODULAR CLASSROOMS

601 FOURTH STREET - BAKERSFIELD, CA 93301



CONTACTS

OWNER	ARCHITECT - RESPONSIBLE DESIGN PROFESSIONAL	ELECTRICAL ENGINEER	CIVIL ENGINEER
NAME: BAKERSFIELD CITY SCHOOL DISTRICT CONTACT: RUBEN SOLIS ROBERT VAN TASSEL	NAME: CUNINGHAM GROUP ARCHITECTURE CONTACT: KEN SVENDSEN	NAME: WATERS ENGINEERING CONTACT: VINCENT WATERS	NAME: PINNACLE CIVIL ENGINEERING CONTACT: MATT VOILLA
ADDRESS: 1300 BAKER STREET BAKERSFIELD, CA 93301	ADDRESS: 2200 TRUXTUN AVENUE BAKERSFIELD, CA 93301	ADDRESS: 3200 SOUTH FAIRWAY SUITE B VISALIA, CA 93277	ADDRESS: 4620 CALIFORNIA AVENUE BAKERSFIELD, CA 93309
PHONE No.: (661) 631-5883 FAX No.: (661) 326-1485	PHONE No.: (661) 327-7075 FAX No.: (661) 327-1822	PHONE No.: (559) 733-9733 FAX No.: (559) 733-9755	PHONE No.: (661) 869-0184 FAX No.: (661) 377-0076

GRAPHIC SYMBOLS

DRAWING TITLE
1- DRAWING TITLE
A101 - DRAWING SCALE
1/8"=1'-0"
SHEET NUMBER

DETAIL
1- DETAIL
A901 - SHEET ON WHICH DETAIL OCCURS

STRUCTURAL GRIDLINE
A

DOOR
101 - REFERENCES DOOR SCHEDULE

CEILING FINISH
10'-0" - MATERIAL
PT-1 - FINISH
ACT-1 - HEIGHT

EXTERIOR ELEVATION
A301 - SHEET ON WHICH ELEVATION OCCURS

COMPASS ROSE
PROJECT NORTH

BUILDING SYSTEM
XX XXXXX - SYSTEM TYPE PER SCHEDULE

MATCHLINE
MATCHLINE

FIRE EXTINGUISHER CABINET
A5 - 5 LB ABC EXTINGUISHER
A10 - 10 LB ABC EXTINGUISHER
EX - EXISTING EXTINGUISHER

PLANTING / LANDSCAPE FEATURE
ABM - PLANTING TYPE PER SCHEDULE
TO - QUANTITY

DATUMS - WORKPOINT AND CENTERPOINT
CP

BUILDING SECTION
1- BUILDING SECTION
A401 - SHEET ON WHICH SECTION OCCURS

ROOM NAME
100

INTERIOR PARTITION
A3 - PARTITION TYPE PER SCHEDULE

WINDOW FRAME TYPE
1 - FRAME TYPE PER SCHEDULE

LOUVER FRAME TYPE
LH - FRAME TYPE PER SCHEDULE

FLOOR FINISH TRANSITION
FLR-1, FLR-2 - FLOORING TYPES PER SCHEDULE

INTERIOR ELEVATION
A701 - SHEET ON WHICH ELEVATION OCCURS

HEIGHT/ELEVATION BENCHMARKS
100'-0" - PRIMARY DATUM
101'-0" - SECONDARY DATUM
101'-0" - SPOT ELEVATION
100'-0" - ELEVATION

KEYNOTE
REFERENCES SHEET KEYNOTE LEGEND

REVISION
1

FIXTURE / EQUIPMENT (ELEVATION)
C = CLOCK
D = SMOKE DETECTOR
E = ELECTRICAL
S = SPEAKER
T = THERMOSTAT

FURNISHINGS / FIXTURES / EQUIPMENT
CW DM2436 - LOCATION OF UNIT

ABBREVIATIONS

ACT ACOUSTIC CEILING TILE	OC ON CENTER(S)
ADA AMERICANS WITH DISABILITIES ACT	OD OUTSIDE DIAMETER
AFF ABOVE FINISHED FLOOR	OF/CI OWNER FURNISHED/CONTRACTOR INSTALLED
ALT ALTERNATIVE / ALTERNATE	OF/OI OWNER FURNISHED/OWNER INSTALLED
ALUM ALUMINUM	OFS OVERFLOW SCUPPER
AOR ARCHITECT OF RECORD	OFRO OVERFLOW ROOF DRAIN
ARCH ARCHITECT	OH OVERHEAD
	OPNG OPENING
	OZ OUNCE
BLKG BLOCKING	PL PLATE
BO BOTTOM OF	PLM PLASTIC LAMINATE
BRG BEARING	PLYMD PLYWOOD
	PRV POWER ROOF VENTILATOR
CGA CUNINGHAM GROUP ARCHITECTURE, P.A.	PT PAINT(ED)
CJ CONTROL JOINT	QT QUARRY TILE
CL CENTER LINE	QTY QUANTITY
CLR CLEAR(ANCE)	
CMU CONCRETE MASONRY UNIT	R RISER
CONC CONCRETE	RAJ(R) RADIUS
CONT CONTINUOUS OR CONTINUE	RB RUBBER BASE
CPT CARPET(ED)	RC REMOTE COMPRESSOR
CT CERAMIC TILE	RD ROOF DRAIN
	REF REFERENCE / REFER TO
DF DRINKING FOUNTAIN	RESIL RESILIENT FLOORING
DIA DIAMETER	REQ'D REQUIRED
DIV DIVISION	RO ROUGH OPENING
DN DOWN	RTU ROOF TOP UNIT
DWGS DRAWINGS	
	SC SEALED CONCRETE
(E) / EXIST EXISTING	SF SQUARE FOOT/FEET
EJ EXPANSION JOINT	SIM SIMILAR
EL ELEVATION	SS STAINLESS STEEL
ELEC ELECTRIC(AL)	STL STEEL
EDR ENGINEER OF RECORD	STRUCT STRUCTURAL
EQ EQUAL	SUSP SUSPENDED
EMC ELECTRIC WATER COOLER	
EXP EXPOSED	T TREAD
EXT EXTERIOR	TB TACKBOARD
	T&G TONGUE AND GROOVE
FD FLOOR DRAIN	TOP TOP OF CONCRETE SLAB / CURB
FE / FEC FIRE EXTINGUISHER (CABINET)	TOD TOP OF DECK
FF / FFE FINISH FLOOR (ELEVATION)	TOP TOP OF FOOTING
FOEM FACE OF EXISTING WALL	TOP TOP OF PARAPET
FOS FACE OF STUD	TOS TOP OF STEEL
FRP FIBERGLASS REINFORCED POLYESTER	TOW TOP OF WALL
	TRTD TREATED
	TYP TYPICAL
GA GAUGE	UNO UNLESS NOTED OTHERWISE
GALV GALVANIZED	
GL GLASS, GLAZING	VB VINYL BASE
GT GLAZED TILE	VP VENEER PLASTER
GWB GYPSUM WALLBOARD	VCT VINYL COMPOSITION TILE
	VFC VERIFY IN FIELD
HB HOSE BIBB	VWF VINYL WALL COVERING
HM HOLLOW METAL	
HSS HOLLOW STEEL SECTION	WB WHITEBOARD
ID INSIDE DIAMETER	WD WOOD
INSUL INSULATION	WDW WINDOW
IOR INSPECTOR OF RECORD	WP WORK POINT
MAS MASONRY	# NUMBER OR POUND
MATL MATERIAL	& AND
MAX MAXIMUM	@ AT
MECH MECHANICAL(AL)	
MIN MINIMUM	
MIR MIRROR(ED)	
MO MASONRY OPENING	
MTD MOUNTED	
NIC NOT IN CONTRACT	

MATERIALS

	ALUMINUM
	BRICK
	CARPET
	CERAMIC TILE/ RESILIENT TILE
	CONCRETE - CAST-IN-PLACE
	CONCRETE - PRECAST
	CONCRETE BLOCK
	EARTH
	EXISTING CONDITION
	FINISHED WOOD
	GLASS
	GRAVEL/STONE FILL
	GYPSUM WALL BOARD
	INSULATION - ACOUSTICAL
	INSULATION - BATT
	INSULATION - RIGID
	PARTICLE BOARD
	PLASTER / GROUT
	PLYWOOD
	ROUGH LUMBER/ WOOD FRAMING
	WOOD BLOCKING
	SAND/ GRANULAR FILL
	STONE
	STEEL/STEEL STUD FRAMING
	TERRAZZO
	WELDED WIRE FABRIC

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED FOR EXACT DIMENSIONS.
- ANY DISRUPTION OF EXISTING UTILITIES SHALL BE COORDINATED AND SCHEDULED WITH THE DISTRICT PRIOR TO STARTING WORK.
- ALL WORK SHALL CONFORM TO 2007 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) PARTS 1-6, 9 AND 12. PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CHANGE ORDERS APPROVED BY DSA PRIOR TO FABRICATION OR INSTALLATION, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A 'DSA CERTIFIED' PROJECT INSPECTOR, MIN. CLASS 4 RBIP, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY BOTH THE AOR AND DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR.)
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- ADDENDA MUST BE STAMPED AND SIGNED BY AOR AND DELEGATED DESIGN PROFESSIONAL, WHEN APPLICABLE, AND APPROVED BY DSA.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS ARE CONSIDERED AS CHANGES TO APPROVED PLANS OR SPECIFICATIONS AND ARE TO BE TREATED AS ADDENDA OR CHANGE ORDERS. (SEC. 4-338(c), PART 1, AND IR A-6). REFER TO NOTE #5 ABOVE.
- A FIELD CHANGE DIRECTIVE (FCD) MUST BE SIGNED BY THE AOR OR DELEGATED DESIGN PROFESSIONAL AND APPROVED BY DSA.
- CHANGE ORDERS AND SUPPLEMENTARY DRAWINGS MUST BE STAMPED AND SIGNED BY THE AOR AND DELEGATED DESIGN PROFESSIONAL, WHEN APPLICABLE, SIGNED BY OWNER AND APPROVED BY DSA.
- 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 NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 CCR'S, A CHANGE ORDER, OR SEPARATE SET OF DOCUMENTS, DETAILING AND SPECIFYING THE REQUIRED REPAIR SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

SHEET INDEX

GENERAL	12'x40' RELOCATABLE TOILET ROOM (TR) BUILDING
G001 COVER SHEET	DRAWINGS PROVIDED BY AMERICAN MODULAR SYSTEMS INC. BASED ON PC# 02-109808
G1-VLL	T-S COVER SHEET
G2 COVER SHEET	A1 TYPICAL FLOOR PLANS
G3 NOTES & SPECIFICATIONS	A3 TYPICAL INTERIOR ELEVATIONS
G4 NOTES & SPECIFICATIONS	A5 TYPICAL EXTERIOR ELEVATIONS
G5 NOTES, DETAILS & TYPICAL SECTIONS	ASA ARCHITECTURAL DETAILS
G6 NOTES, DETAILS & TYPICAL SECTIONS	AD ACCESSIBLE DETAILS
G7 EXISTING CONDITIONS & DEMOLITION	N1 GENERAL NOTES
G8 EXISTING CONDITIONS & DEMOLITION	N2 GENERAL NOTES
G9 GRADING & SITE IMPROVEMENTS	P1 ISOMETRIC PLANS & DETAILS
G10 GRADING & SITE IMPROVEMENTS	M1 TYPICAL CEILING PLAN & NOTES
G11 GRADING & SITE IMPROVEMENTS	M2 MECHANICAL BUILDING SECTION & CEILING NOTES
G12 GRADING & SITE IMPROVEMENTS	M3 CEILING & MECHANICAL NOTES
G13 GRADING & SITE IMPROVEMENTS	E1 TYPICAL ELECTRICAL PLAN & NOTES
	E2 ELECTRICAL NOTES & DETAILS
	S1A CONCRETE FOUNDATION PLAN
	S1B CONCRETE FOUNDATION DETAILS
	S1C CONCRETE FOUNDATION DETAILS
	S2 FLOOR FRAMING PLAN & DETAILS
	S3 ROOF FRAMING PLAN & DETAILS
	S3.1 ROOF FRAMING DETAILS
	SA TYPICAL FRAME ELEVATIONS
	S4A WALL FRAMING ELEVATIONS
	S5 WALL FRAMING DETAILS
	S5A WALL FRAMING DETAILS BUILDING SECTIONS
	S7
ARCHITECTURAL	ELECTRICAL
AS101 SITE PLAN	E000 SINGLE LINE DIAGRAM, DETAILS & CALC'S
AS191 ENLARGED SITE PLAN	E101 PARTIAL SITE POWER PLAN
AS192 ENLARGED SITE PLAN	E102 PARTIAL SITE SIGNAL PLAN
	E201 BUILDING ELECTRICAL PLANS
	E301 BUILDING FIRE ALARM PLANS
	E302 FIRE ALARM SINGLE LINE DIAGRAM
	E401 MATERIAL SPECIFICATIONS
	E402 MATERIAL SPECIFICATIONS

PROJECT DESCRIPTION

GOVERNING CODE: TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
TITLE 24 CCR, PART 1-2007 BUILDING STANDARDS ADMINISTRATIVE CODE
TITLE 24 CCR, PART 2-2007 CALIFORNIA BUILDING CODE
TITLE 24 CCR, PART 3-2007 CALIFORNIA ELECTRICAL CODE
TITLE 24 CCR, PART 4-2007 CALIFORNIA MECHANICAL CODE
TITLE 24 CCR, PART 5-2007 CALIFORNIA PLUMBING CODE
TITLE 24 CCR, PART 6-2008 CALIFORNIA ENERGY CODE
TITLE 24 CCR, PART 9-2007 CALIFORNIA FIRE CODE
TITLE 24 CCR, PART 12-2007 CALIFORNIA REFERENCED STANDARDS
2007 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS
2007 NFPA 25, INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
2007 NFPA 72, NATIONAL FIRE ALARM CODE

BUILDING TYPE: TYPE IV-B
PRIMARY OCCUPANCY TYPE: GROUP E
NEW MODULAR UNITS (SQ/FT): 4,320 SF
PROGRAM DESCRIPTION: FOUR 24'x40' PERMANENT MODULAR CLASSROOMS AND ONE 12'x40' PERMANENT MODULAR TOILET ROOM BUILDING PLACED ON CONCRETE FOUNDATIONS.

ACS: Bill Dong
FLS: Kristin LaVella
SSS: Gary Reynolds

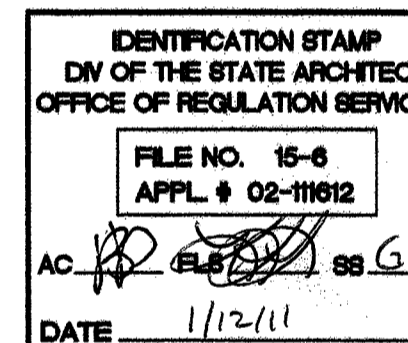


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Consultant

Revisions

No.	Date	Description



Date: 12/15/10

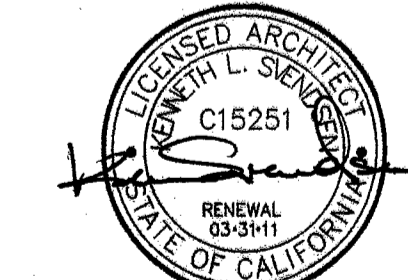
Comm. No.: 10-0801

Drawn By: JF Checked By: -

PC/AC: - Document Phase: CD

Project Title

McKINLEY
ELEMENTARY
PERMANENT MOD.
CLASSROOMS



Sheet Title
COVER SHEET

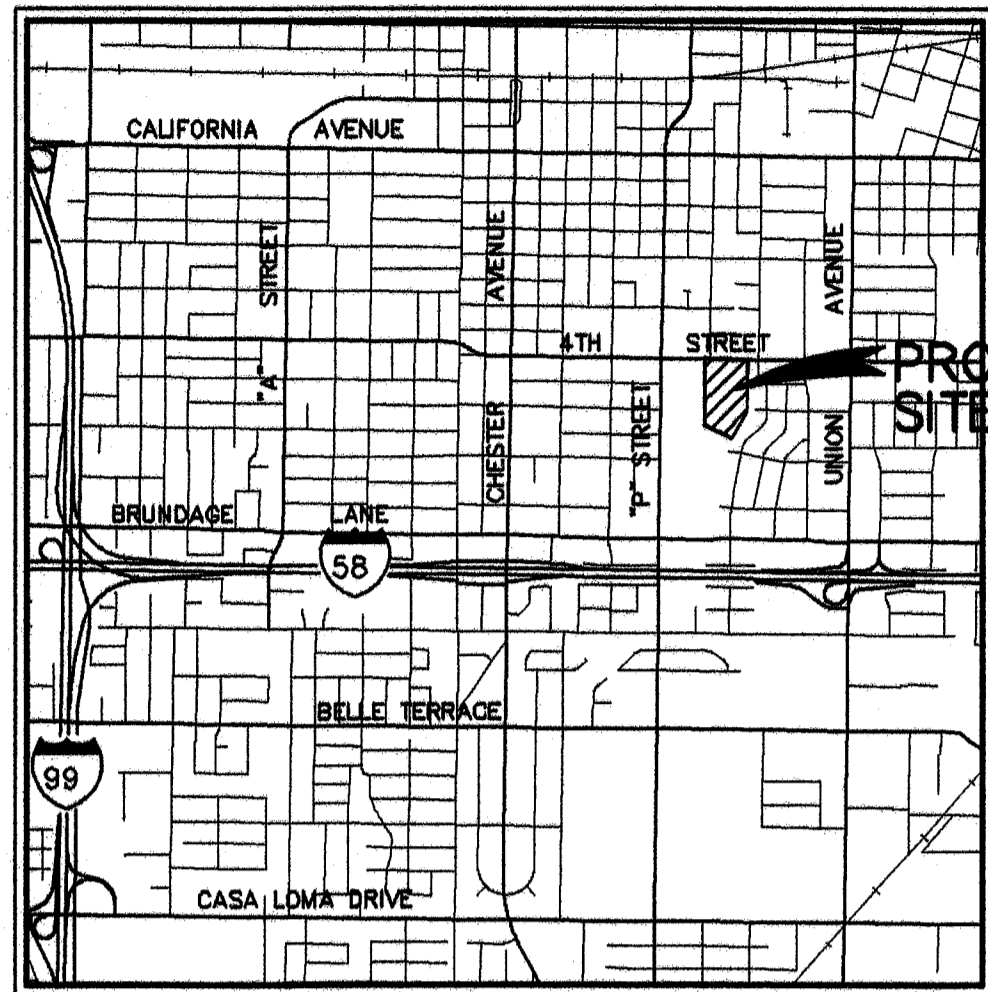
Sheet Number

G001

McKINLEY ELEMENTARY SCHOOL, BAKERSFIELD, CALIFORNIA

GRADING AND SITE IMPROVEMENT PLANS

FOR NEW PERMANENT MODULAR CLASSROOMS



VICINITY MAP
NO SCALE

BENCHMARK SET:

SET CONCRETE NAIL IN PAVEMENT AND SHOWN ON THIS PLAN WITH ELEVATIONS NOTED.

BENCHMARK USED:

FOUND CHISELED "0" AT THE NORTH END OF THE THE NORTHEAST CURB RETURN AT THE INTERSECTION OF 4TH STREET AND "T" STREET PER CITY OF BAKERSFIELD BENCH MARK BOOK.

ELEVATION = 387.48 (TRACT No. 1557 STREET IMPROVEMENT PLANS).

STATISTICS:

- ASSESSOR'S PARCEL NUMBER: 010-110-01
- APPROXIMATE ACREAGE: 22.37 ACRES (TOTAL DISTRICT PROPERTY)
- BUILDING SIZE: APPROXIMATELY 4,115 S.F.
- WATER: ON-SITE
- SEWER DISPOSAL: ON-SITE
- DRAINAGE: ON-SITE
- EXISTING LAND USE: SCHOOL SITE
- PROPOSED LAND USE: SCHOOL SITE
- FIRE PROTECTION: C.O.B.
- ADDRESS: 601 4th STREET BAKERSFIELD, CA 93307

CONSTRUCTION LEGEND

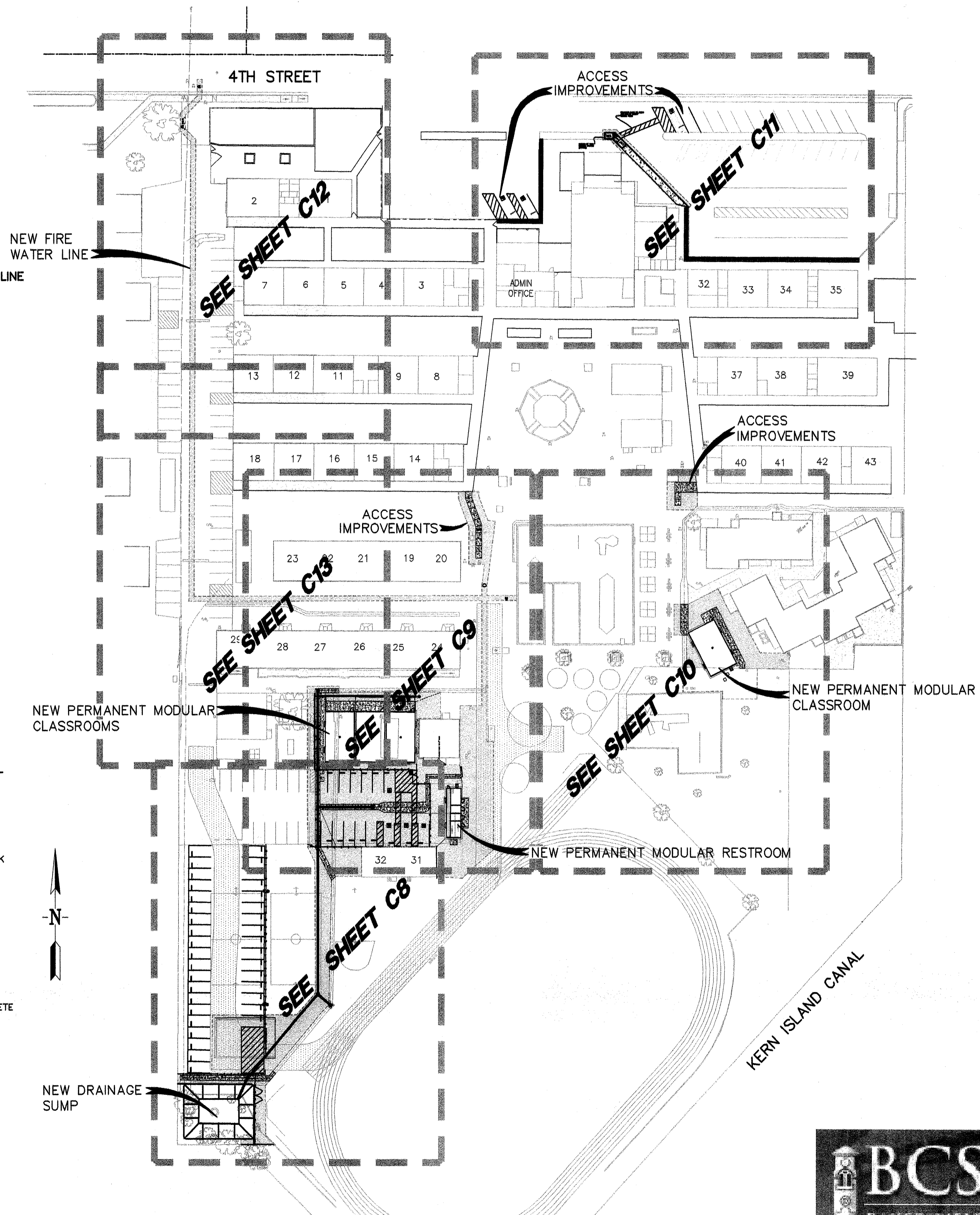
	NEW AC PAVEMENT		CONCRETE BUMPER	TOG = TOP OF GRATE INLET
	NEW CONCRETE		PROPOSED SIGN	FL = FLOWLINE
	PROPOSED DRAINAGE INLET		PROPOSED LUMINAIRE (SEE ELECTRICAL PLANS)	GB = GRADE BREAK
	DESIGN SLOPE		ADA PAVEMENT MARKING	TC = TOP OF CURB
	SAWCUT LINE		PROPOSED FIRE HYDRANT	TOC = TOP OF CONCRETE FLAT WORK
	PROPOSED STORM DRAIN			MIN = MINIMUM
	PROPOSED DOMESTIC PVC WATER LINE			AC = ASPHALT CONCRETE
	PROPOSED SEWER			BW = BACK OF WALK
	PROPOSED SEWER CLEANOUT PER C.O.B. STANDARD SW-5 (SEE SHEET 5)			EX = EXISTING
	PROPOSED SEWER MANHOLE PER C.O.B. STANDARD SW-2 (SEE SHEET 5)			HP = HIGH POINT
	PROPOSED GATE VALVE AND VALVE BOX			INV = INVERT
	PROPOSED 4-INCH AND BOX PER C.O.B. STANDARD W-4 (SEE SHEET 5)			FS = FINISHED SURFACE
	CONSTRUCTION NOTE - SEE SHEET 4			LP = LIP OF V-GUTTER
	EXISTING SEWER LINE			CONC = PORTLAND CEMENT CONCRETE
	EXISTING WATER LINE			S = SLOPE
	EXISTING ELEVATION			FG = FINISHED GRADE
	PATH OF DRAINAGE			CO = CLEANOUT
				BO = BLOWOFF

NOTE

SEE SHEETS 6 & 7 (EXISTING CONDITIONS / DEMOLITION) FOR ADDITIONAL LEGEND OF EXISTING CONDITIONS.

SHEET No. INDEX

- C1 COVER SHEET
- C2 NOTES AND SPECIFICATIONS
- C3 NOTES AND SPECIFICATIONS
- C4 NOTES, DETAILS AND TYPICAL SECTIONS
- C5 DETAILS AND TYPICAL SECTIONS
- C6 EXISTING CONDITIONS & DEMOLITION
- C7 EXISTING CONDITIONS & DEMOLITION
- C8 GRADING AND SITE IMPROVEMENT PLANS - PARKING LOT & SUMP
- C9 GRADING AND SITE IMPROVEMENT PLANS - NEW PERMANENT MODULAR CLASSROOMS - PORTION OF FIREWATER LINE
- C10 GRADING AND SITE IMPROVEMENT PLANS - NEW PERMANENT MODULAR CLASSROOM
- C11 GRADING AND SITE IMPROVEMENT PLANS - PARKING LOT AND SIDEWALK
- C12 GRADING AND SITE IMPROVEMENT PLANS - FIREWATER LINE
- C13 GRADING AND SITE IMPROVEMENT PLANS - FIREWATER LINE



KEY MAP
SCALE: 1"=50'



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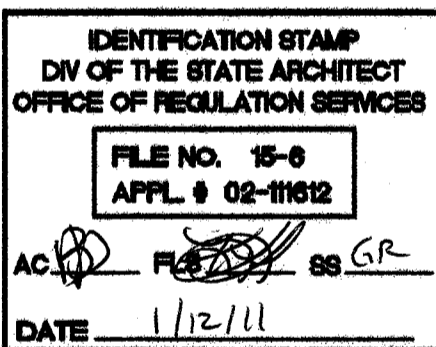
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12/15/2010

Revisions

No.	Date	Description



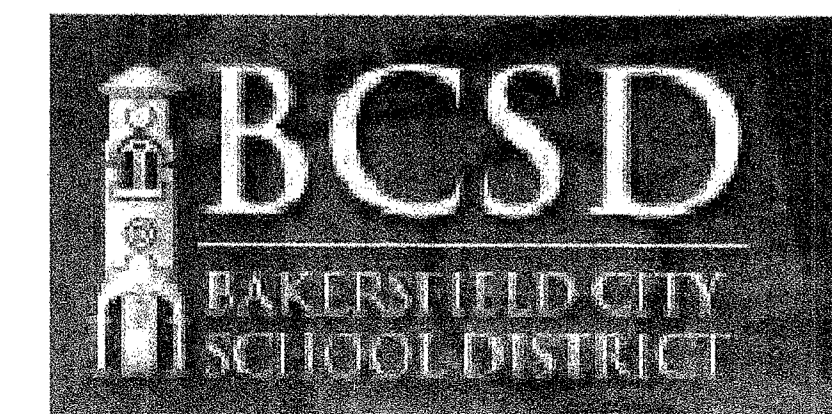
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PIC/A/C: - Document Phase: CD

Project Title
McKINLEY ELEMENTARY PERMANENT MODULAR CLASSROOMS



Sheet Title
COVER SHEET

Sheet Number
C1



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CITY OF BAKERSFIELD WATER SPECIFICATIONS (CONT'D):

(CONTINUED FROM SHEET 3)

7.3 DISINFECTION OF WATER LINES: AFTER HYDROSTATIC TESTING HAS BEEN COMPLETED, THE ENTIRE NEWLY CONSTRUCTED WATER SYSTEM INCLUDING PIPE, VALVES, FITTINGS, HYDRANTS, AND OTHER ACCESSORIES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C-601 AND AS SPECIFIED HEREIN.

7.3.1 CHLORINE APPLICATION: THE DISINFECTING AGENT SHALL BE CHLORINE IN LIQUID OR "TABLET" FORM APPLIED IN A QUANTITY SUFFICIENT TO PRODUCE A SOLUTION OF AT LEAST 50 PARTS PER MILLION BY WEIGHT IN SAMPLES TAKEN AT THE MOST DISTANT POINTS OF THE SYSTEM.

AFTER THE REQUIRED SOLUTION OF CHLORINE IS OBTAINED THE PIPES SHALL REMAIN CLOSED FOR 24 HOURS. AFTER A 24 HOUR DURATION, SAMPLES SHALL BE TAKEN AT THE SAME LOCATION AS THE INITIAL SAMPLE AND SHALL SHOW NO LESS THAN 10 PARTS PER MILLION BY WEIGHT, FAILING SHALL REQUIRE ADDITIONAL DISINFECTION AS DIRECTED BY THE DEPARTMENT.

7.3.2 DURING THE DISINFECTION PROCESS, ALL VALVES AND OTHER APPURTENANCES SHALL BE OPERATED WHILE THE SYSTEM IS FILLED WITH HEAVILY CHLORINATED WATER.

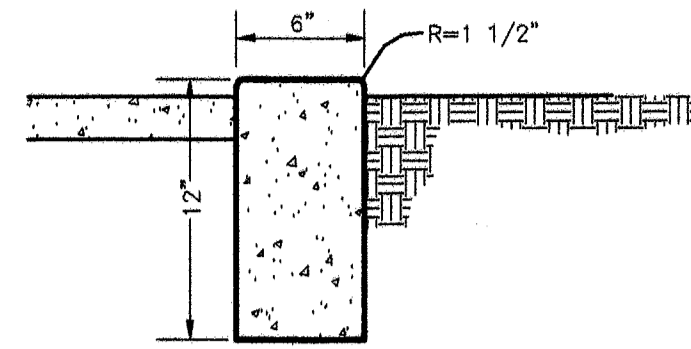
7.3.3 FLUSHING: AFTER THE 24 HOUR STERILIZATION PERIOD THE LINE SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL STRONGLY CHLORINATED WATER UNTIL SAMPLES TAKEN AT VARIOUS POINTS AS DIRECTED TEST NOT IN EXCESS OF 1 PART PER MILLION. FOR THE PROTECTION OF PROPERTY DURING FLUSHING, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO USE HOSES OR PIPE TO CONVEY THE WASTE WATER TO LOCATIONS WHERE NO DAMAGE WILL RESULT.

CARE SHALL BE TAKEN TO PREVENT STRONG CHLORINE SOLUTION IN THE LINE BEING TREATED FROM FLOWING BACK INTO THE EXISTING SYSTEM.

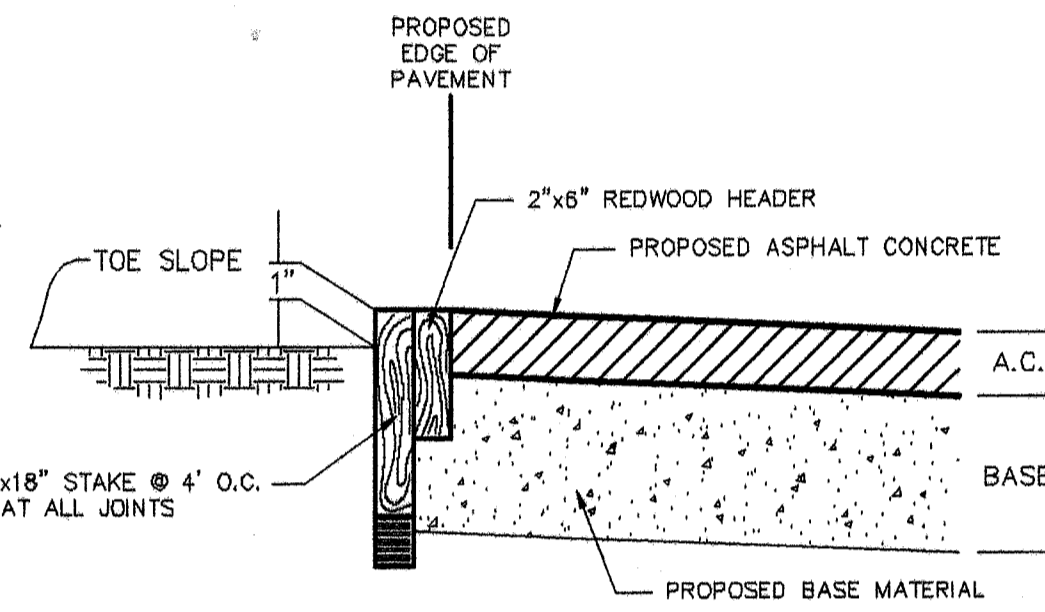
7.4 BACTERIOLOGICAL TESTS: THE DEPARTMENT SHALL REQUIRE A BACTERIOLOGICAL TEST. BACTERIOLOGICAL TESTS SHALL BE PERFORMED BY A QUALIFIED LABORATORY AND THE REQUIREMENTS OF SUCH TESTS SHALL BE IN ACCORDANCE WITH STANDARDS ESTABLISHED BY THE STATE DEPARTMENT OF HEALTH SERVICES.

7.5 FIRE FLOW TESTS: THE CITY OF BAKERSFIELD FIRE DEPARTMENT WILL TEST NEWLY CONSTRUCTED WATER SYSTEMS TO DETERMINE IF MINIMUM STANDARDS FOR THE FIRE FLOW HAVE BEEN MET.

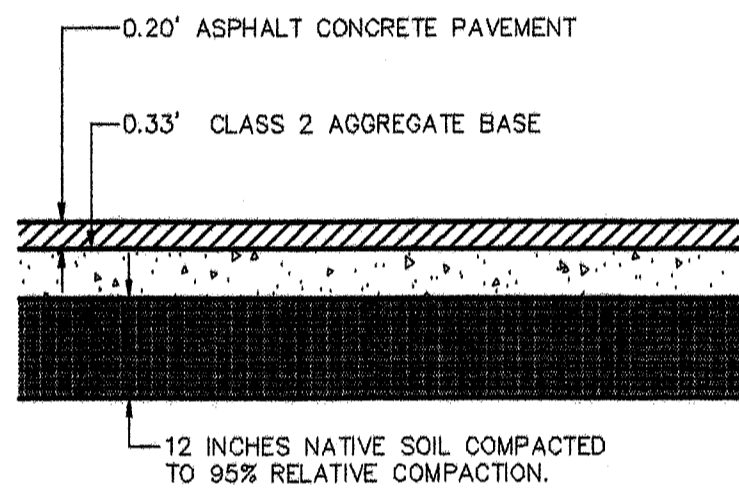
7.6 COSTS FOR TESTING: THE DEVELOPER OR DEVELOPER'S CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE VARIOUS ACCEPTANCE TESTS AND ANY NECESSARY REPAIRS, EXCEPT AS OTHERWISE STATED IN THESE SPECIFICATIONS.



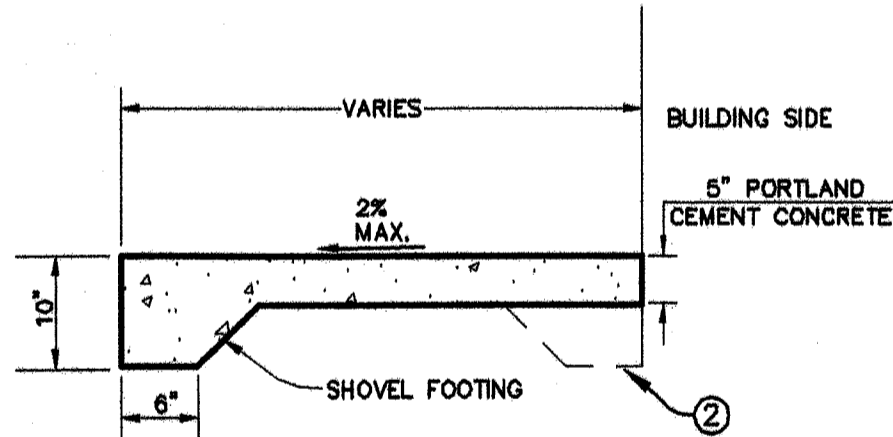
D 4 NON-REINFORCED 6" CONCRETE MOW CURB N.T.S.



E 4 REDWOOD PAVING BOARD N.T.S.

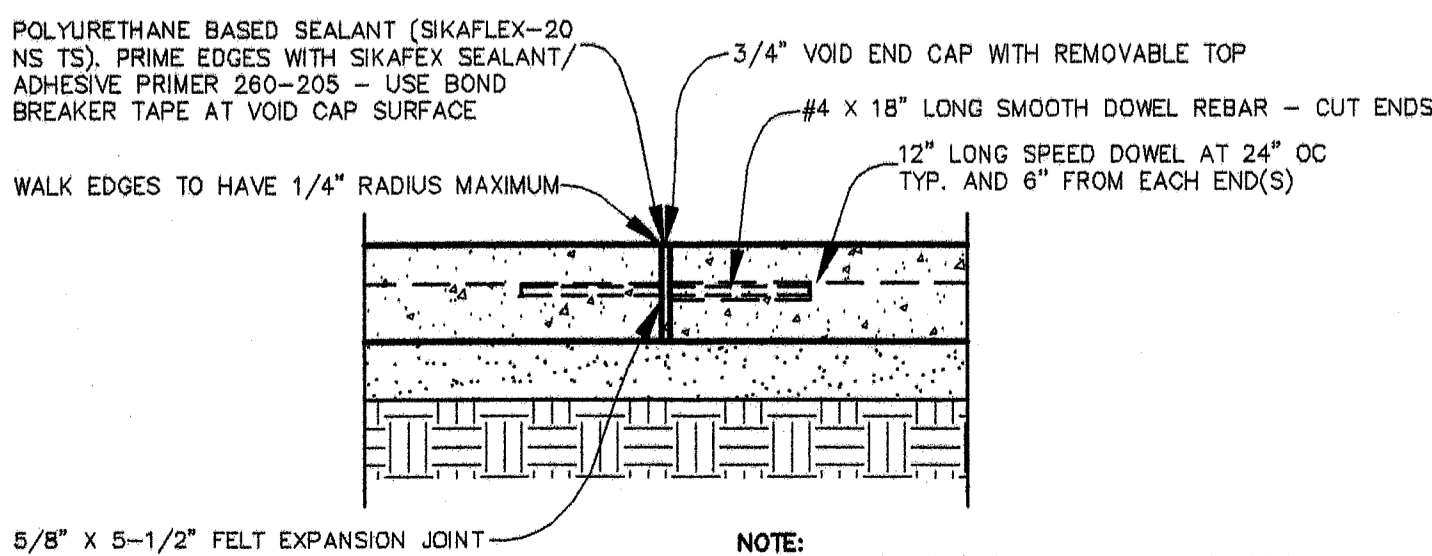


A 4 TYPICAL PAVING SECTION N.T.S.

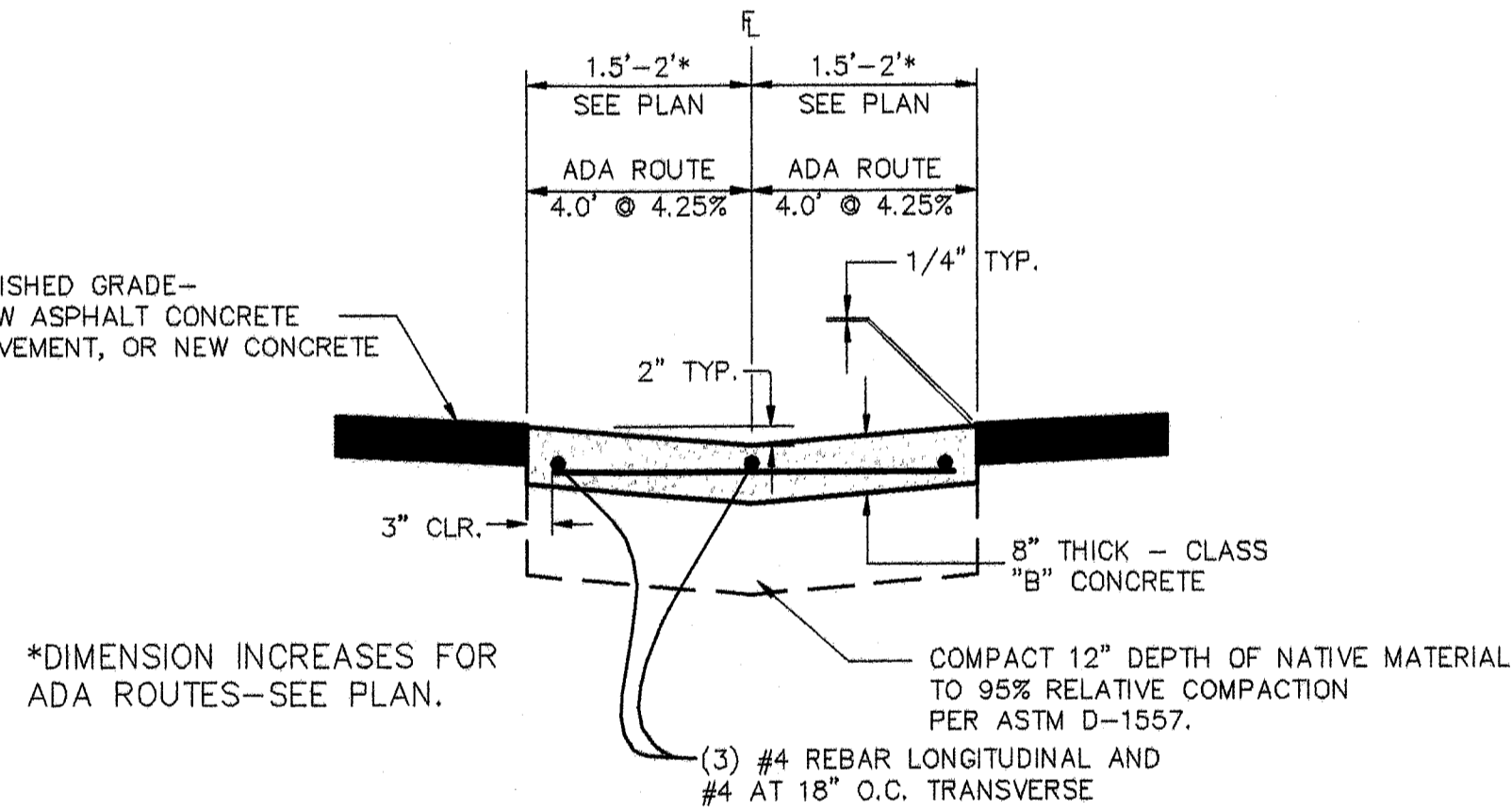


- NOTES:
- OBTAIN 95% RELATIVE COMPACTION FOR A DEPTH OF 12" BENEATH ALL CONCRETE, PER ASTM D-1557
 - CONSTRUCT SHOVEL FOOTINGS ON BOTH SIDES OF WALK WHEN NOT ABUTTING A STRUCTURE
 - FLATWORK, OTHER THAN SIDEWALK, WILL EXCLUDE SHOVEL FOOTING.

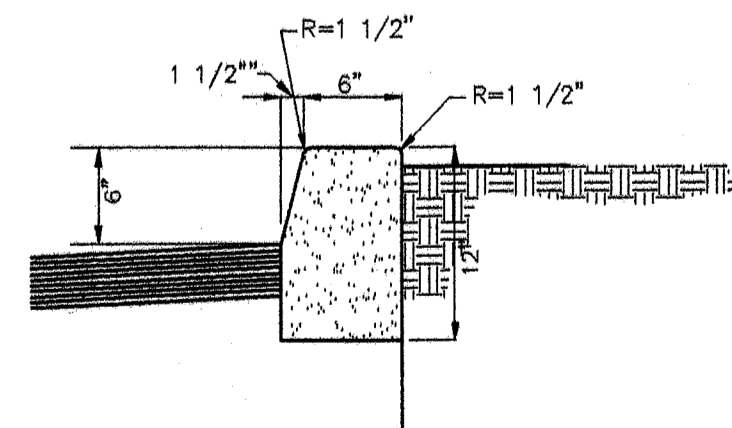
B 4 PCC SIDEWALK SECTION N.T.S.



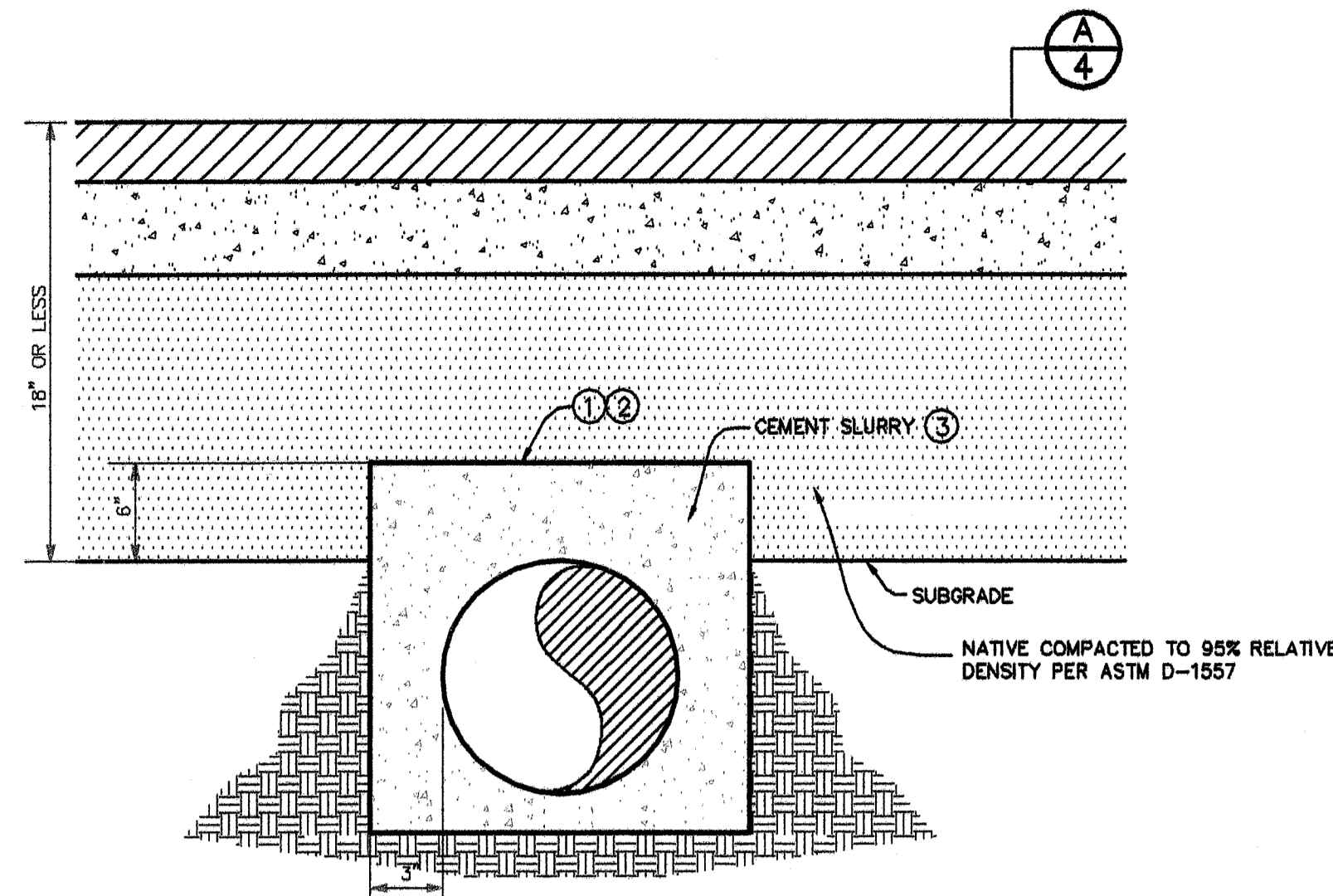
C 4 EXPANSION JOINT @ CONCRETE 'JOINS' N.T.S.



F 4 CONCRETE "V" GUTTER N.T.S.



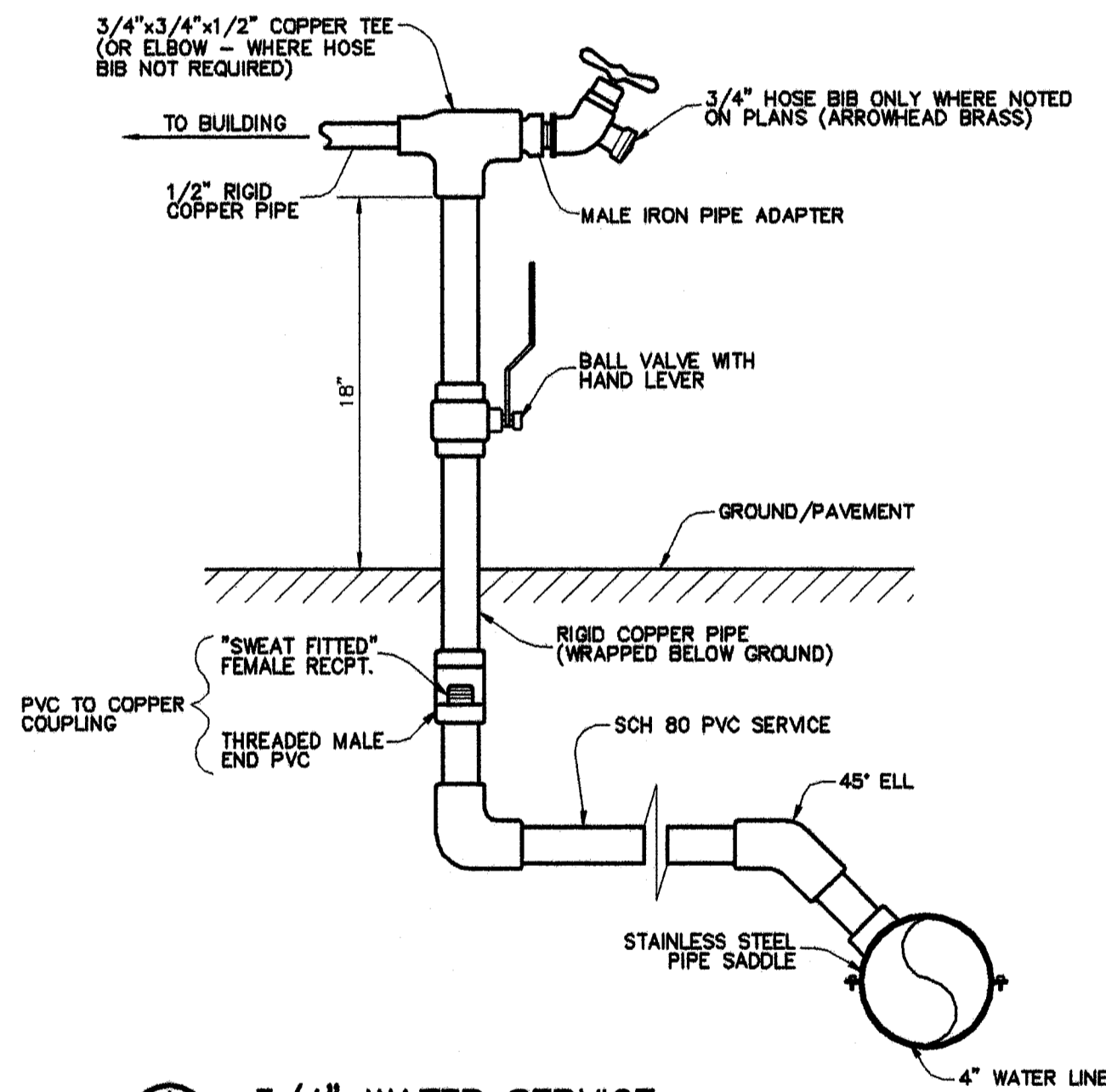
G 4 NON-REINFORCED 6" CONCRETE CURB N.T.S.



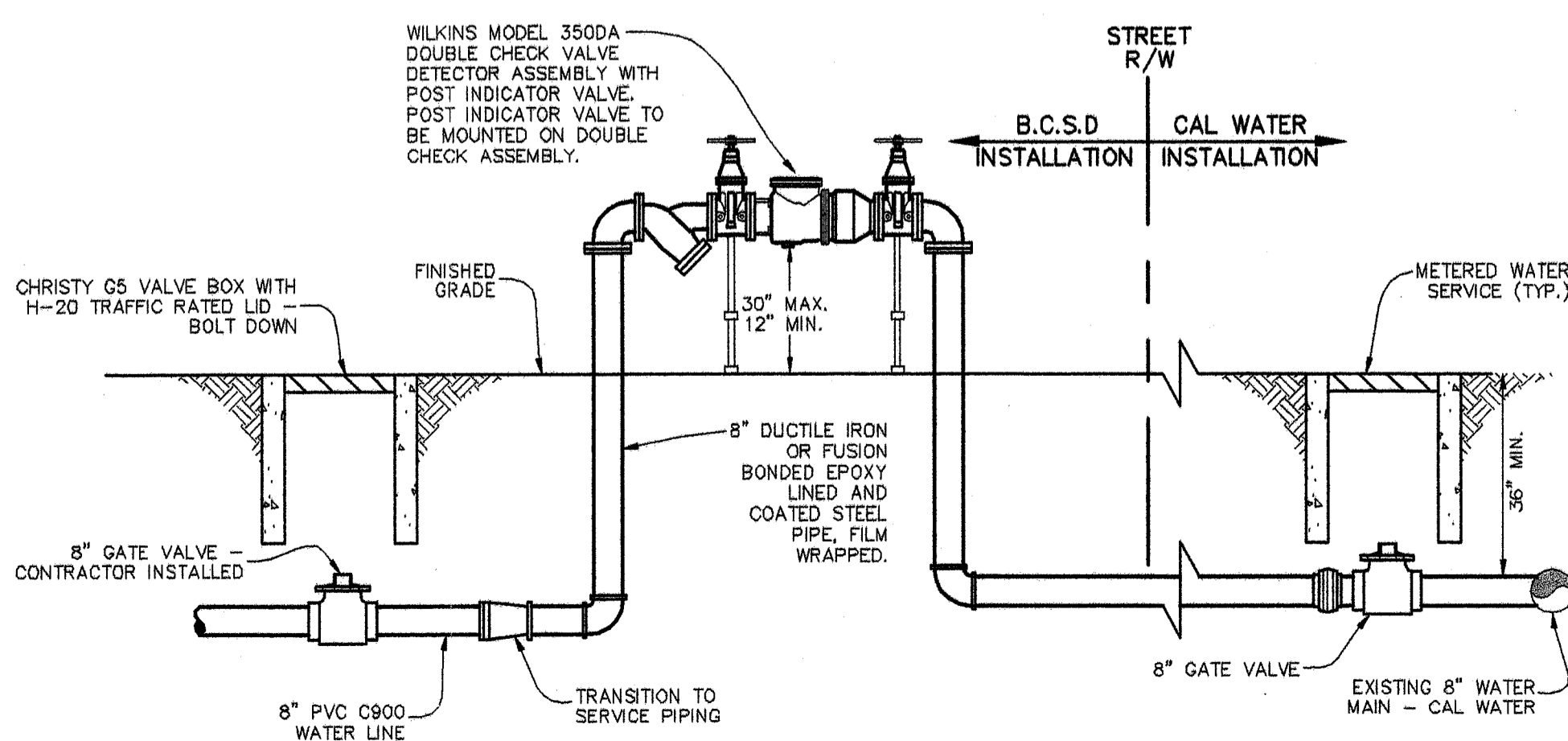
NOTES:

- SLURRY BACKFILL TO BE USED IN PAVED AREAS WHERE COVER IS 18" OR LESS.
- SLURRY TO ENCRATCH INTO SUB-GRADE TO ACHIEVE 6" OF SLURRY COVER OVER PIPE.
- SLURRY SHALL BE 1-SACK CONCRETE MIX.

H 4 TRENCH SLURRY BACKFILL (WHEN LESS THAN 18" OF COVER) N.T.S.



I 4 3/4" WATER SERVICE N.T.S.



J 4 DETAIL - BACKFLOW PREVENTION N.T.S.

CONSTRUCTION NOTES-GRADING, UTILITY & SITE IMPROVEMENTS

GRADING, PAVING AND FLATWORK:

- CONTRACTOR SHALL PERFORM ALL NECESSARY DEMOLITION WITHIN THE LIMITS OF WORK. PROTECT EXISTING UTILITIES THAT ARE TO REMAIN. SEE DEMOLITION NOTES, SHEET 2 HEREIN, AND ARCHITECT'S SPECIFICATIONS.
- SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT FOR PLACEMENT OF NEW UTILITIES. PATCH PAVEMENT IN ACCORDANCE WITH DETAIL (A) HEREIN.
- CONTRACTOR SHALL CORDONE OFF WORK AREAS WITH CAUTION TAPE, DELINEATORS AND BARRICADES. AND SHALL PROVIDE FOR SAFE PASSAGE OF STUDENTS AND DISTRICT EMPLOYEES.
- PRIOR TO FINISH GRADING, THE BUILDING PAD AREA SHALL BE OVEREXCAVATED AND RECOMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.
- CONTRACTOR SHALL RESEARCH ALL EXISTING UTILITIES AND POINTS OF CONNECTION. AS A FIRST ORDER OF WORK, CONTRACTOR SHALL "POTHOLE" EXISTING UTILITIES TO VERIFY LOCATION AND DEPTH. DISCREPANCIES WITH THE PLANS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER SUCH THAT ADJUSTMENTS MAY BE MADE PRIOR TO INSTALLATION.
- PLACE AND COMPACT ASPHALT CONCRETE PAVEMENT OVER CLASS 2 AGGREGATE BASE OVER COMPACTED SUBGRADE IN ACCORDANCE WITH DETAIL (A) PLANS, THE SPECIFICATIONS AND CONTRACT DOCUMENTS.
- CONSTRUCT REDWOOD HEADER BOARD PER DETAIL AT ANY EDGE OF ASPHALT CONCRETE PAVEMENT NOT ABUTTING PORTLAND CEMENT CONCRETE.
- CONSTRUCT PORTLAND CEMENT CONCRETE PAVEMENT OR WALKS IN ACCORDANCE WITH DETAIL (B) HEREIN. SAWCUT EXISTING ASPHALT CONCRETE PAVEMENT. NEW WALK SHALL MEET ALL STATE AND FEDERAL ADA SPECIFICATIONS. CONCRETE FORMWORK SHALL BE CHECKED FOR ADA COMPLIANCE BY THE INSPECTOR PRIOR TO POUR.
- APPLY SOIL STERILANT UNDER NEW PC CONCRETE OR ASPHALT CONCRETE PAVEMENT.
- REMOVE EXISTING CONCRETE WALK AND RECONSTRUCT IN ACCORDANCE WITH DETAIL (B) HEREIN.
- FURNISH AND INSTALL ADA APPROVED DETECTABLE/TACTILE WARNING SURFACE TILE (TRUNCATED DOME MAT) ON EXISTING PC CONCRETE SURFACE. SURFACE SHALL BE MANUFACTURED BY ARMOR-TILE OR APPROVED EQUAL. MAT COLOR SHALL BE YELLOW IN ACCORDANCE WITH DSA REQUIREMENTS. CONTRACTOR SHALL SUBMIT CONCRETE ANCHORAGE DETAIL FOR APPROVAL.
- PAINT NEW PARKING STALLS, ADA PARKING STALLS, PAVEMENT MARKINGS, AND ROUTES IN ACCORDANCE WITH THE PLANS. EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AND FOG-SEALED PRIOR TO PAINTING NEW MARKINGS. FOG SEAL SHALL SET SUFFICIENTLY BEFORE APPLYING NEW PAINT. SEE DETAILS ON AS101.
- CONSTRUCT CONCRETE VEE GUTTER PER DETAIL (A) HEREIN. SEE PLAN FOR WIDTH.
- INSTALL ROCK WELL IN CENTER OF CRAWL SPACE UNDER EACH PORTABLE. SEE ARCHITECT'S PLANS FOR DETAIL OF ROCK WELL.
- ADJUST ALL EXISTING UTILITY BOXES TO FINISHED GRADE. CONCRETE COLLARS SHALL BE POURED AROUND NEW CLEAN-OUTS, BLOWOFFS, AND UTILITY BOXES. SAWCUT AND POUR COLLARS AFTER COMPLETION OF NEW PAVEMENT.
- VENT STRUCTURE SHALL BE CONSTRUCTED WITH FOUNDATION. SEE ARCHITECT'S PLANS FOR DETAIL.

DOMESTIC WATER NOTES:

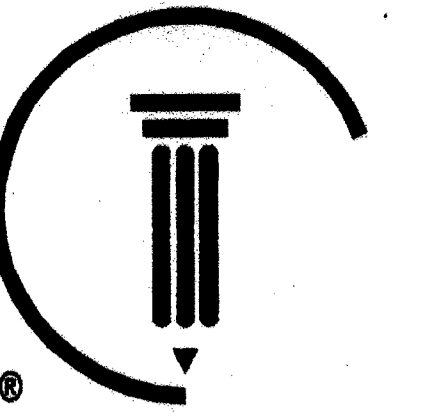
- SEE GENERAL NOTES AND SPECIFICATIONS ON SHEET 3 OF THESE PLANS.
- CUT-IN/JOIN EXISTING WATER LINE. COORDINATE WITH DISTRICT FOR ACCEPTABLE TIMES TO SHUT OFF WATER SERVICE.
- ALL UTILITIES WITH LESS THAN 18-INCHES OF COVER SHALL BE ENCASED IN A CONCRETE SLURRY PER DETAIL (A).
- INSTALL 2-INCH DOMESTIC WATER LINE. SEE DISTRICT'S PLUMBING STANDARDS.
- INSTALL 8-INCH PVC C900 FIRE WATER LINE, IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARD W-1.
- INSTALL 8-INCH GATE VALVE AND VALVE BOX PER CITY OF BAKERSFIELD STANDARDS.
- INSTALL 2-INCH GATE VALVE AND VALVE BOX PER DISTRICT STANDARDS.
- INSTALL THRUST BLOCKS AT ALL WATERLINE ANGLE POINTS PER CITY OF BAKERSFIELD STANDARD W-2.
- FURNISH AND INSTALL DOUBLE DETECTOR CHECK VALVE, PER COUNTY AND CITY FIRE DEPARTMENT STANDARDS. SEE DETAIL (A) HEREIN.
- INSTALL FIRE HYDRANT PER CITY OF BAKERSFIELD STANDARD W-3. SEE DETAIL (B).
- INSTALL WATERLINE BLOW-OFF PER CITY OF BAKERSFIELD STANDARD W-4.
- INSTALL 3/4-INCH DOMESTIC SERVICE PER DETAIL (I) HEREIN. CONNECT TO PORTABLE PER MANUFACTURERS RECOMMENDATIONS. EXCLUDE 3/4" HOSE BIB EXCEPT WHERE NOTED ON THE PLANS.

SEWER AND STORM DRAIN NOTES:

- FURNISH AND INSTALL 8-INCH PVC STORM DRAIN, SDR 35.
- FURNISH AND INSTALL 6-INCH PVC SEWER, SDR 35.
- INSTALL PLUG IN SEWER WHERE NOTED.
- FURNISH AND INSTALL 4-INCH PVC SEWER, SDR 35, WITH SEWER WYES FOR CONNECTION TO BUILDING SEWER.
- INSTALL SEWER WYES IN STORM DRAIN LINE FOR CONNECTION TO ROOF DRAINS. INSTALL ADAPTOR FOR RECTANGULAR ROOF DRAIN TO CIRCULAR STORM DRAIN.
- INSTALL SEWER CLEAN-OUT WHERE INDICATED FOR BOTH SEWER AND STORM DRAIN.
- FURNISH AND INSTALL 24-INCH SQUARE DRAINAGE INLET - CHRISTY U23 WITH H20, ADA COMPLIANT AND HEEL PROOF GRATE. SEE SHEET 5 FOR DETAIL.
- FURNISH AND INSTALL SEWER MANHOLE PER CITY OF BAKERSFIELD STANDARD SW-2.
- CONSTRUCT STORM DRAIN OUTLET STRUCTURE PER CITY OF BAKERSFIELD STANDARD S-9.
- INSTALL 6-FOOT CHAIN LINK FENCING PER DISTRICT STANDARD. FENCING SHALL BE INSTALLED AFTER COMPLETION OF NEW PAVEMENT. NEW PAVEMENT SHALL BE CORED TO RECEIVE FENCE POSTS.
- INSTALL 4-FOOT MAN GATE WHERE INDICATED ON PLAN.
- INSTALL 14-FOOT SWING DOUBLE GATE WHERE INDICATED ON PLAN.
- INSTALL 20 FOOT SLIDING GATE WHERE INDICATED ON PLAN.

MISCELLANEOUS

- REMOVE AND SALVAGE EXISTING BASKETBALL GOALS AND TETHERBALL POLES. DELIVER TO AN "ON-SITE" LOCATION AS DIRECTED BY THE DISTRICT.
- REFERENCE ARCHITECTS PLANS FOR ADA PARKING LOT SIGNS.
- PROPOSED PARKING LOT LUMINAIRE - SEE ELECTRICAL PLANS.
- CONSTRUCT CONCRETE CURB PER DETAIL (D) HEREIN.
- EXCAVATE DRAINAGE SUMP TO THE LINES AND GRADES SHOWN ON PLAN.
- FURNISH AND INSTALL 3' PRE-CAST CONCRETE PARKING BUMPERS.
- SAWCUT AND JOIN EXISTING PC CONCRETE. INSTALL REBAR DOWELS PER DETAIL (C) HEREIN.
- IN AREAS OF NEW PAVEMENT, INSTALL NEW FENCING AFTER COMPLETION OF PAVEMENT INSTALLATION. PAVEMENT SHALL BE CORED.
- RECONSTRUCT 6" PCC CURB PER DETAIL (C) HEREIN.
- REMOVE EXISTING TREES WHERE SHOWN ON PLAN.



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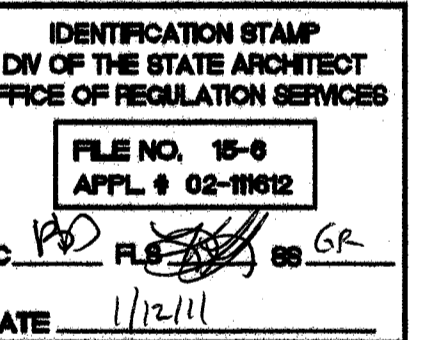
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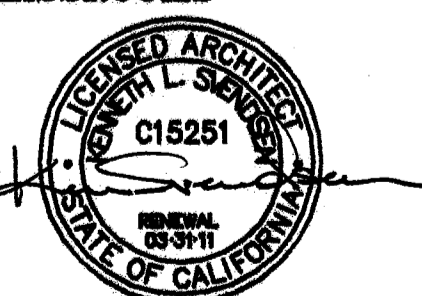
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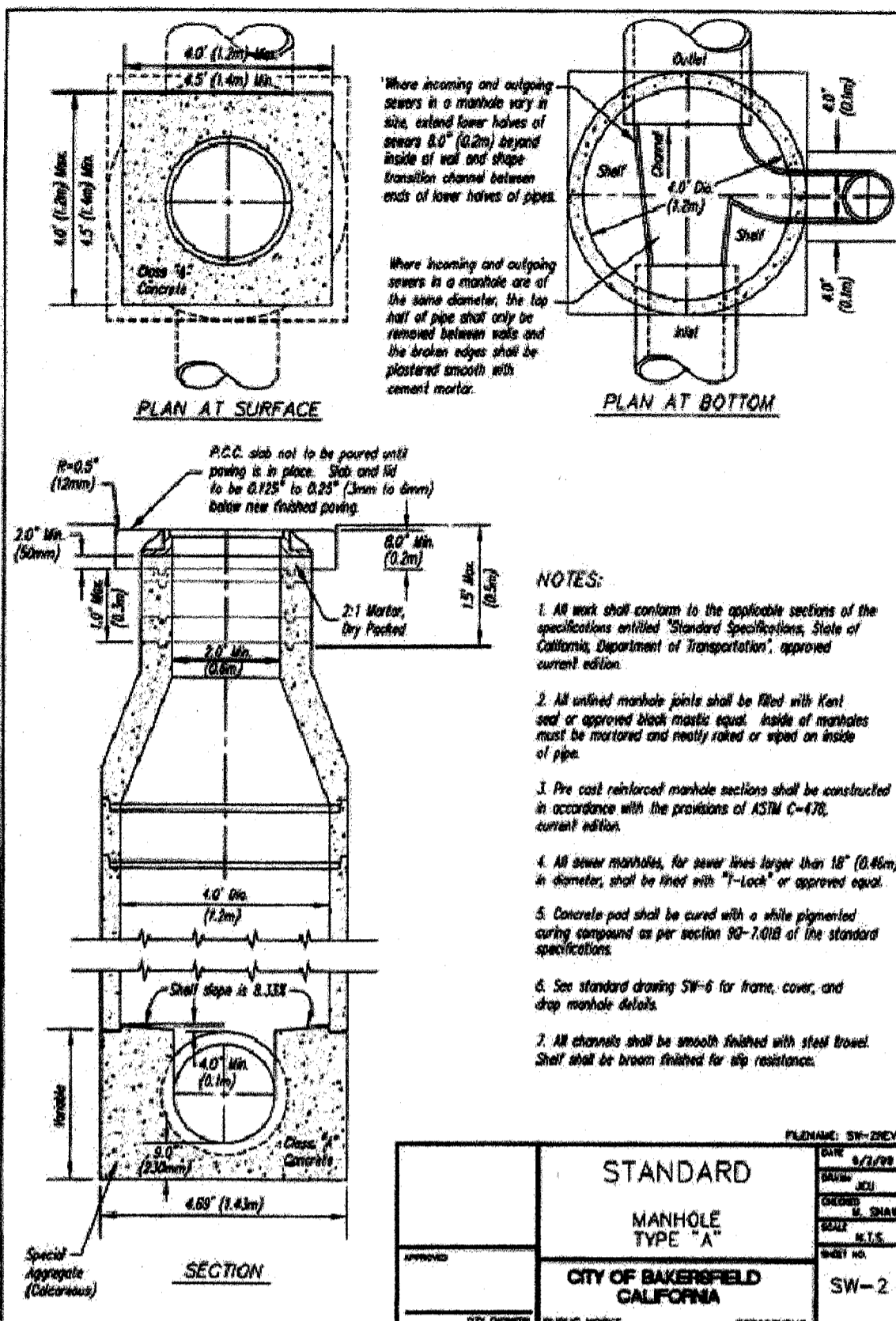
Project Title
McKINLEY ELEMENTARY PERMANENT MODULAR CLASSROOMS



Sheet Title
NOTES, DETAILS AND TYPICAL SECTIONS

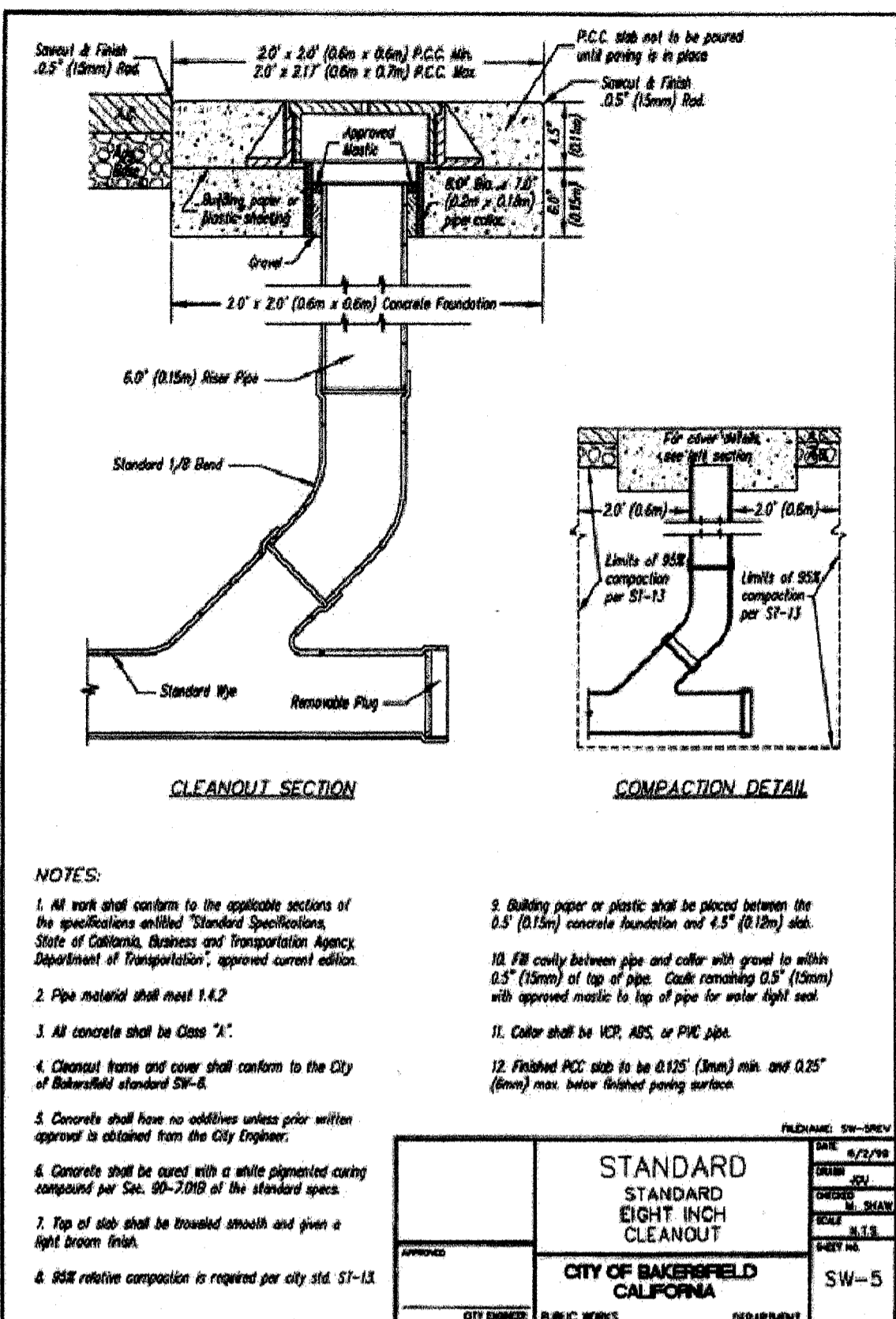
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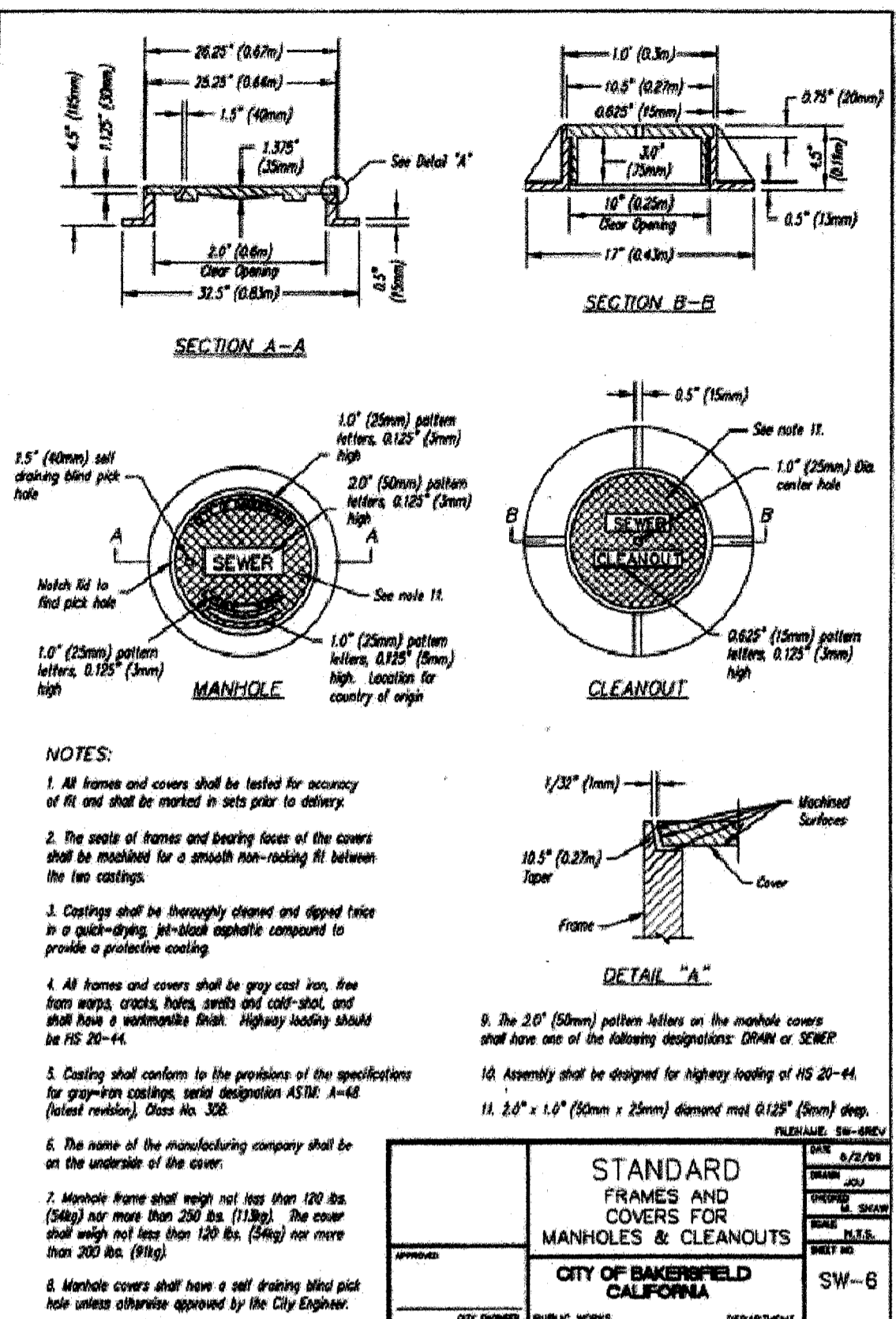
- NOTES:**
- All work shall conform to the applicable sections of the specifications unless otherwise noted.
 - All masonry shall be finished with a smooth or plastered finish.
 - Pre cast reinforced concrete sections shall be constructed in accordance with the provisions of ASTM C-108, current edition.
 - All sewer manholes, for sewer lines larger than 18" (457 mm) in diameter, shall be lined with 12" (305 mm) or approved equal.
 - Concrete shall be cured with a white pigmented curing compound as per section 50-7.08 of the standard specifications.
 - See standard drawing SW-6 for form, cover, and drop manhole details.
 - All channels shall be smooth finished with steel brush. Steel shall be brown finished for slip resistance.

FILE NAME: SW-5	DATE: 4/1/99	BY: JWC	APPROVED: JWC
DESCRIPTION: STANDARD MANHOLE TYPE 'A'	PROJECT: CITY OF BAKERSFIELD CALIFORNIA	DEPARTMENT: PUBLIC WORKS	PLATE NO: SW-2



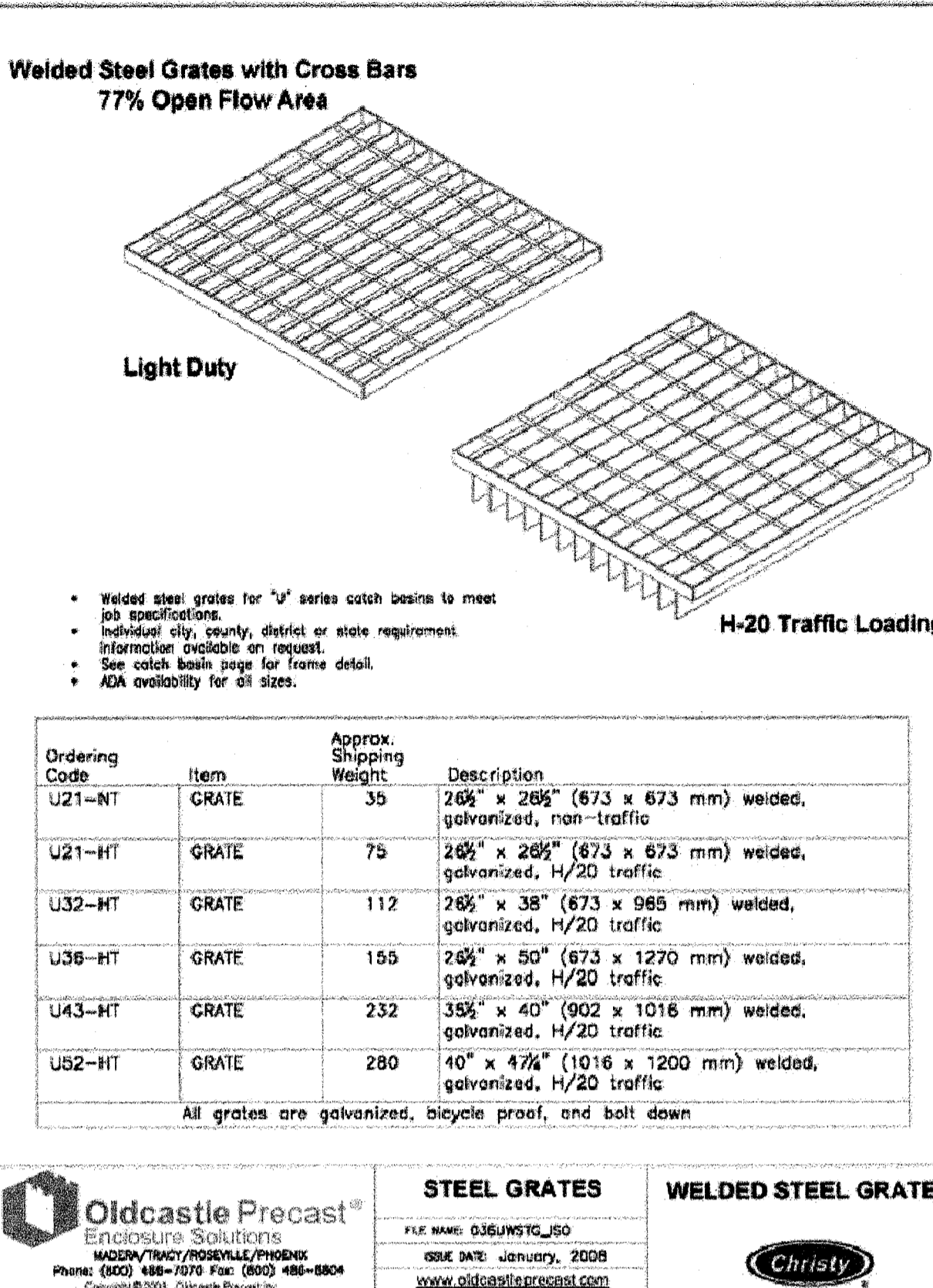
- NOTES:**
- All work shall conform to the applicable sections of the specifications unless otherwise noted.
 - Concrete shall be cured with a white pigmented curing compound as per section 50-7.08 of the standard specifications.
 - Concrete shall have no additives unless prior written approval is obtained from the City Engineer.
 - Covers shall be spaced with a white pigmented curing compound as per section 50-7.08 of the standard specifications.
 - Top of slab shall be finished smooth and given a light broom finish.
 - 90% relative compaction is required per city std. S1-15.

FILE NAME: SW-5	DATE: 4/1/99	BY: JWC	APPROVED: JWC
DESCRIPTION: STANDARD CLEANOUT TYPE 'A'	PROJECT: CITY OF BAKERSFIELD CALIFORNIA	DEPARTMENT: PUBLIC WORKS	PLATE NO: SW-5



- NOTES:**
- Frames and covers shall be tested for accuracy of fit and shall be marked in sets prior to delivery.
 - The seats of frames and bearing faces of the covers shall be maintained for a smooth non-slipping fit between the two castings.
 - Castings shall be thoroughly cleaned and dipped twice in a quick-drying, bit-liquid epoxide compound to provide a protective coating.
 - All frames and covers shall be gray cast iron, free from cracks, holes, and other defects.
 - Castings shall conform to the provisions of the specifications for gray-iron castings, series designation ASTM A-48 (fastest section). Class No. 30B.
 - The name of the manufacturing company shall be on the underside of the cover.
 - Manhole frames shall weigh not less than 130 lbs (59 kg) for manholes up to 30" dia. (762 mm). The cover shall weigh not less than 100 lbs (45 kg) for manholes up to 30" dia. (762 mm).
 - Manhole covers shall have a self locking blind pin lock unless otherwise approved by the City Engineer.

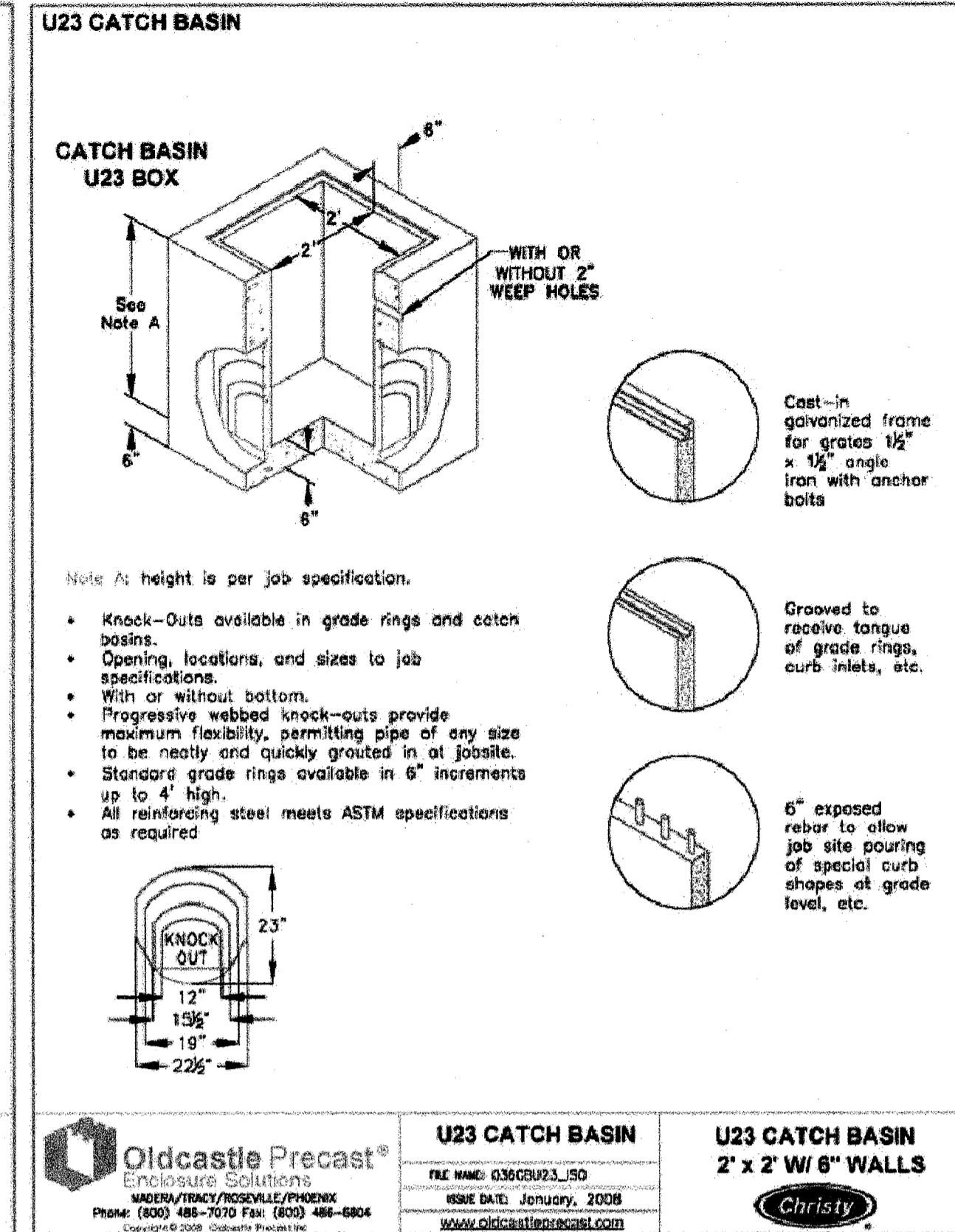
FILE NAME: SW-5	DATE: 4/1/99	BY: JWC	APPROVED: JWC
DESCRIPTION: STANDARD MANHOLE AND CLEANOUTS	PROJECT: CITY OF BAKERSFIELD CALIFORNIA	DEPARTMENT: PUBLIC WORKS	PLATE NO: SW-6



Ordering Code	Item	Approx. Shipping Weight	Description
U21-NI	GRATE	35	26" x 26" (673 x 673 mm) weided, galvanized, non-traffic
U21-HT	GRATE	75	26" x 26" (673 x 673 mm) weided, galvanized, H/20 traffic
U32-HT	GRATE	112	26" x 38" (673 x 965 mm) weided, galvanized, H/20 traffic
U36-HT	GRATE	155	26" x 50" (673 x 1270 mm) weided, galvanized, H/20 traffic
U43-HT	GRATE	232	35" x 40" (902 x 1016 mm) weided, galvanized, H/20 traffic
U52-HT	GRATE	280	40" x 47 1/2" (1016 x 1200 mm) weided, galvanized, H/20 traffic

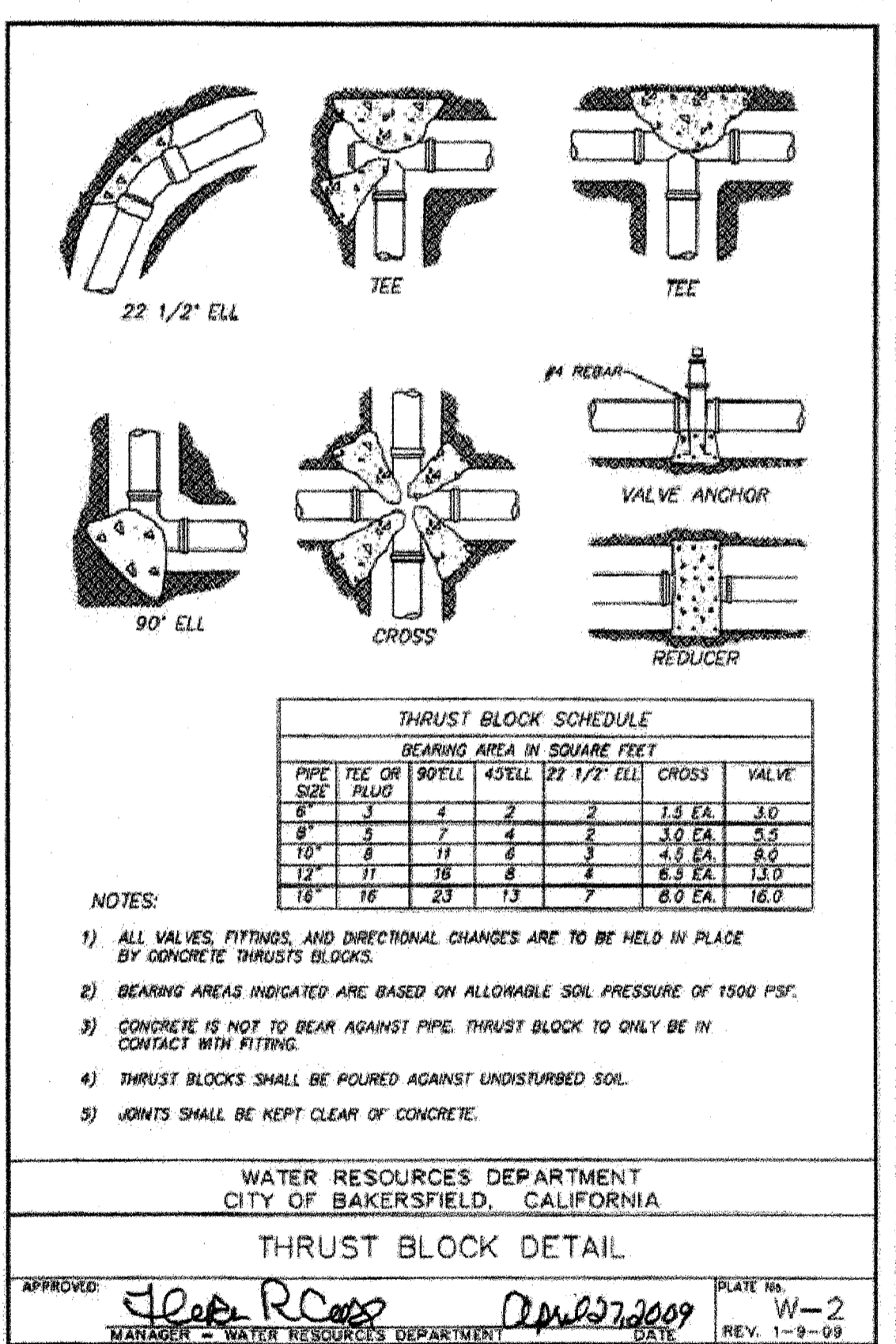
All grates are galvanized, bicycle proof, and bolt down

FILE NAME: OJ6JUNSTC_030	DATE: January, 2008	BY: JWC	APPROVED: JWC
DESCRIPTION: STEEL GRATES	PROJECT: CITY OF BAKERSFIELD CALIFORNIA	DEPARTMENT: PUBLIC WORKS	PLATE NO: SW-7

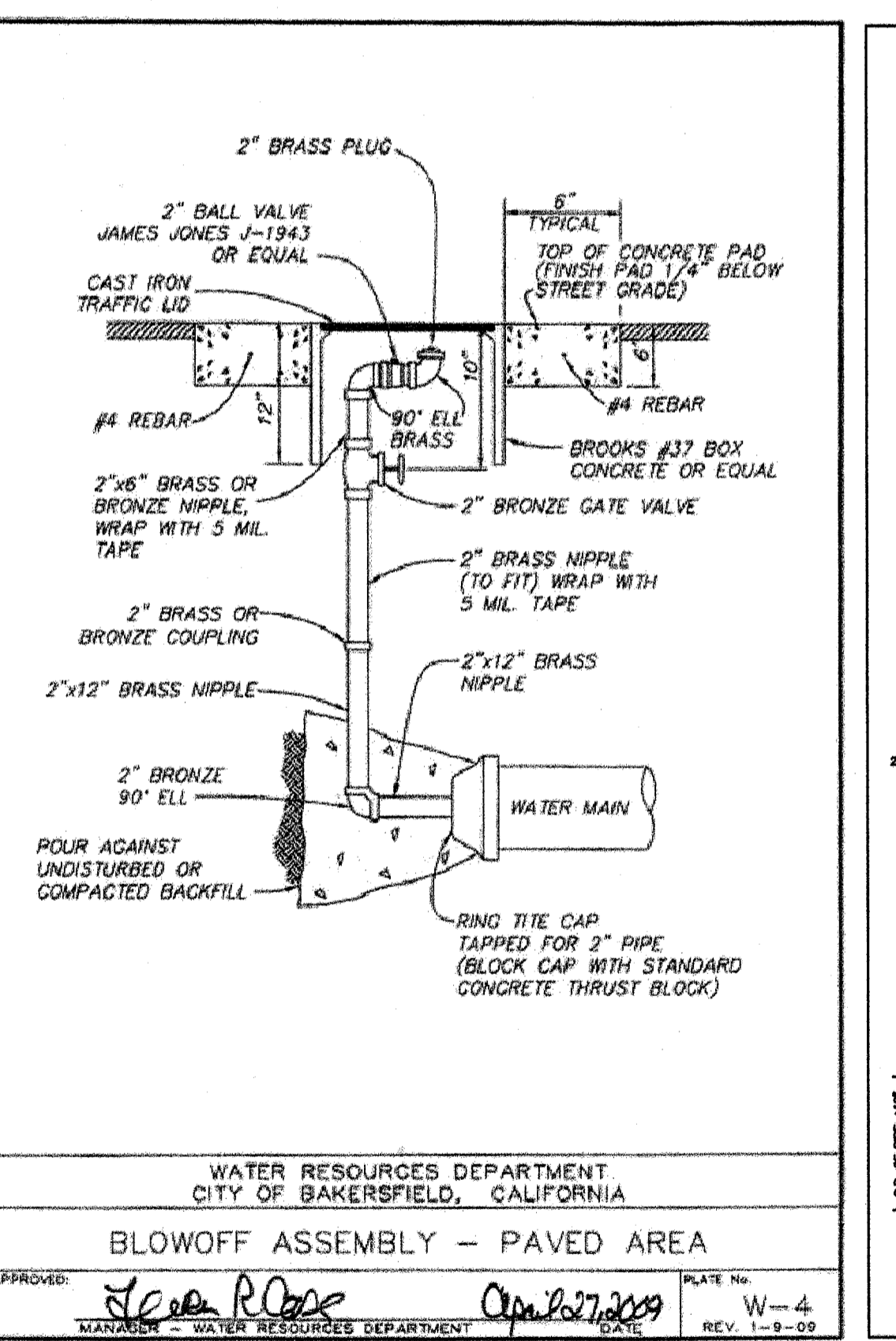


- NOTES:**
- Knock-Outs available in grade rings and catch basins.
 - Opening, locations, and sizes to job specifications.
 - With or without bottom.
 - Progressive welded knock-outs provide maximum flexibility, permitting pipe of any size to be neatly and quickly gouted in at jobsite.
 - Standard grade rings available in 6" increments up to 4' high.
 - All reinforcing steel meets ASTM specifications as required.

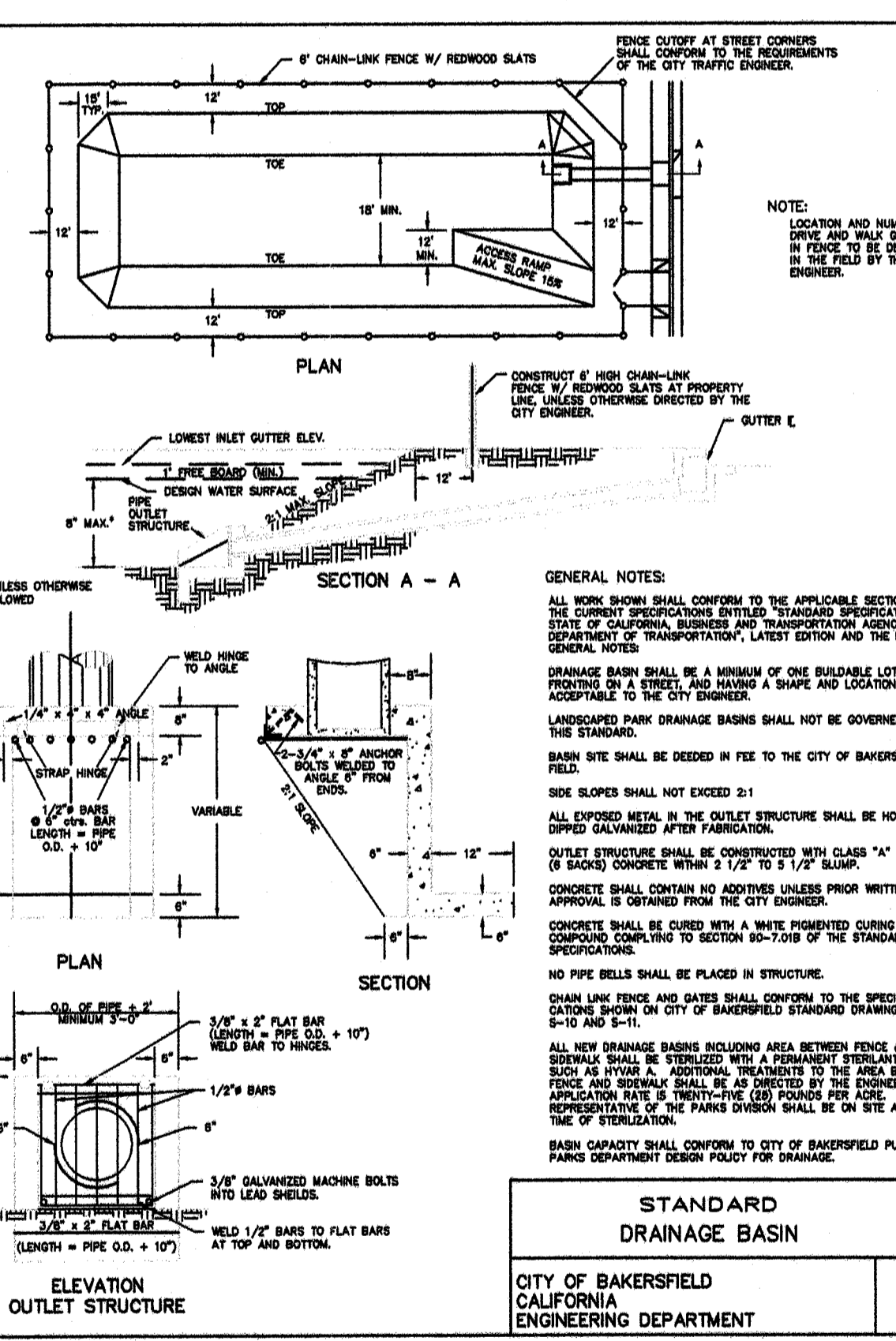
FILE NAME: OJ6JUNSTC_030	DATE: January, 2008	BY: JWC	APPROVED: JWC
DESCRIPTION: U23 CATCH BASIN	PROJECT: CITY OF BAKERSFIELD CALIFORNIA	DEPARTMENT: PUBLIC WORKS	PLATE NO: SW-8



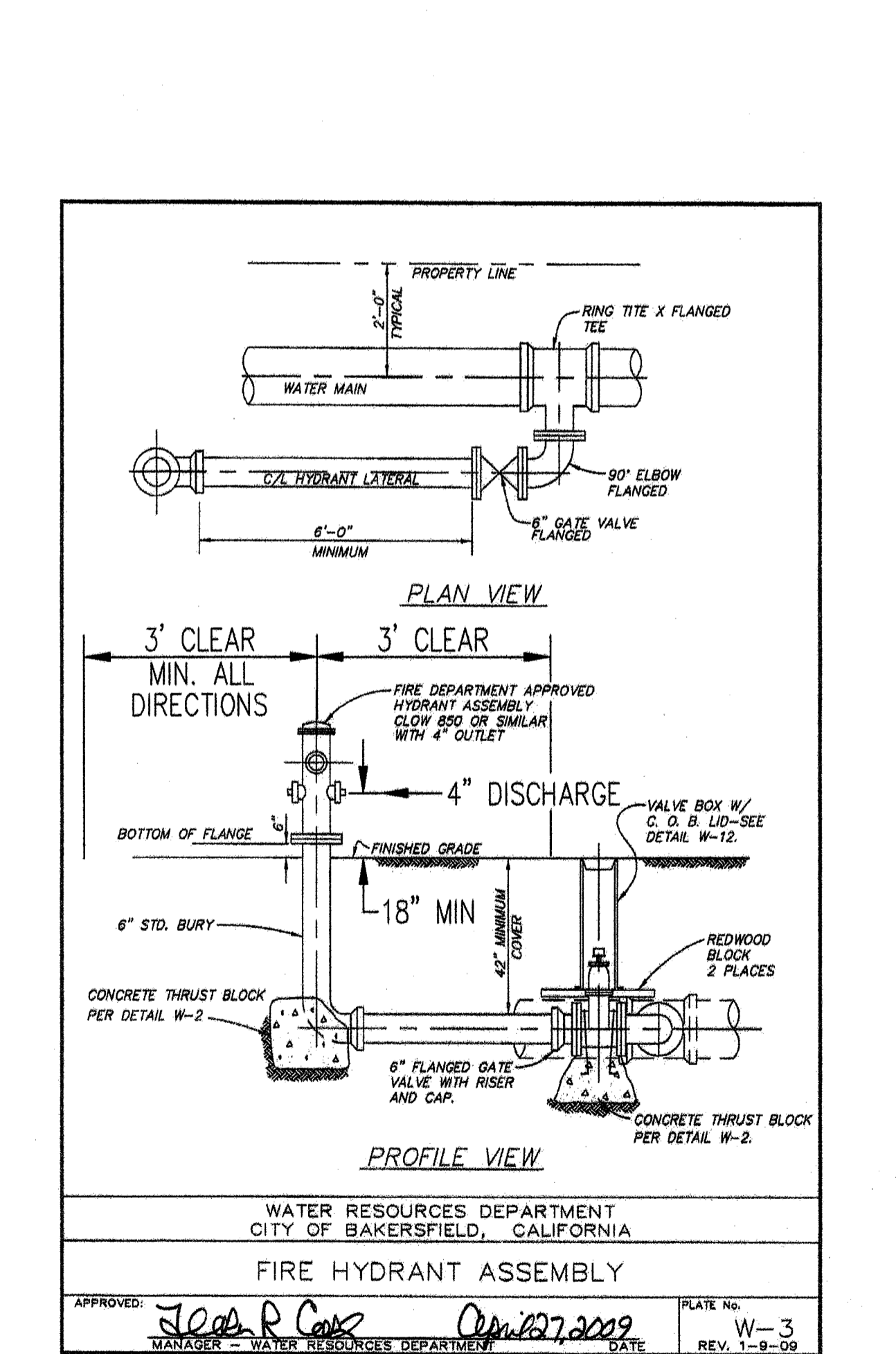
- NOTES:**
- ALL VALVES, FITTINGS, AND DIRECTIONAL CHANGES ARE TO BE HELD IN PLACE BY CONCRETE THRUST BLOCKS.
 - BEARING AREAS INDICATED ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1500 PSF.
 - CONCRETE IS NOT TO BEAR AGAINST PIPE. THRUST BLOCK TO ONLY BE IN CONTACT WITH FITTING.
 - THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
 - JOINTS SHALL BE KEPT CLEAR OF CONCRETE.



FILE NAME: SW-5	DATE: 4/1/99	BY: JWC	APPROVED: JWC
DESCRIPTION: BLOWOFF ASSEMBLY - PAVED AREA	PROJECT: CITY OF BAKERSFIELD CALIFORNIA	DEPARTMENT: PUBLIC WORKS	PLATE NO: SW-4



FILE NAME: SW-5	DATE: 4/1/99	BY: JWC	APPROVED: JWC
DESCRIPTION: STANDARD DRAINAGE BASIN	PROJECT: CITY OF BAKERSFIELD CALIFORNIA	DEPARTMENT: PUBLIC WORKS	PLATE NO: SW-9



FILE NAME: OJ6JUNSTC_030	DATE: January, 2008	BY: JWC	APPROVED: JWC
DESCRIPTION: FIRE HYDRANT ASSEMBLY	PROJECT: CITY OF BAKERSFIELD CALIFORNIA	DEPARTMENT: PUBLIC WORKS	PLATE NO: W-3



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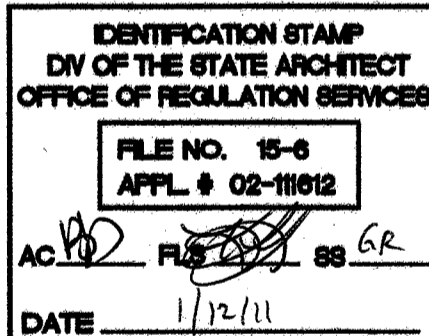


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Date: 12/15/10

Comm. No.: 10-0801

Drawn By: JWC Checked By: JWC

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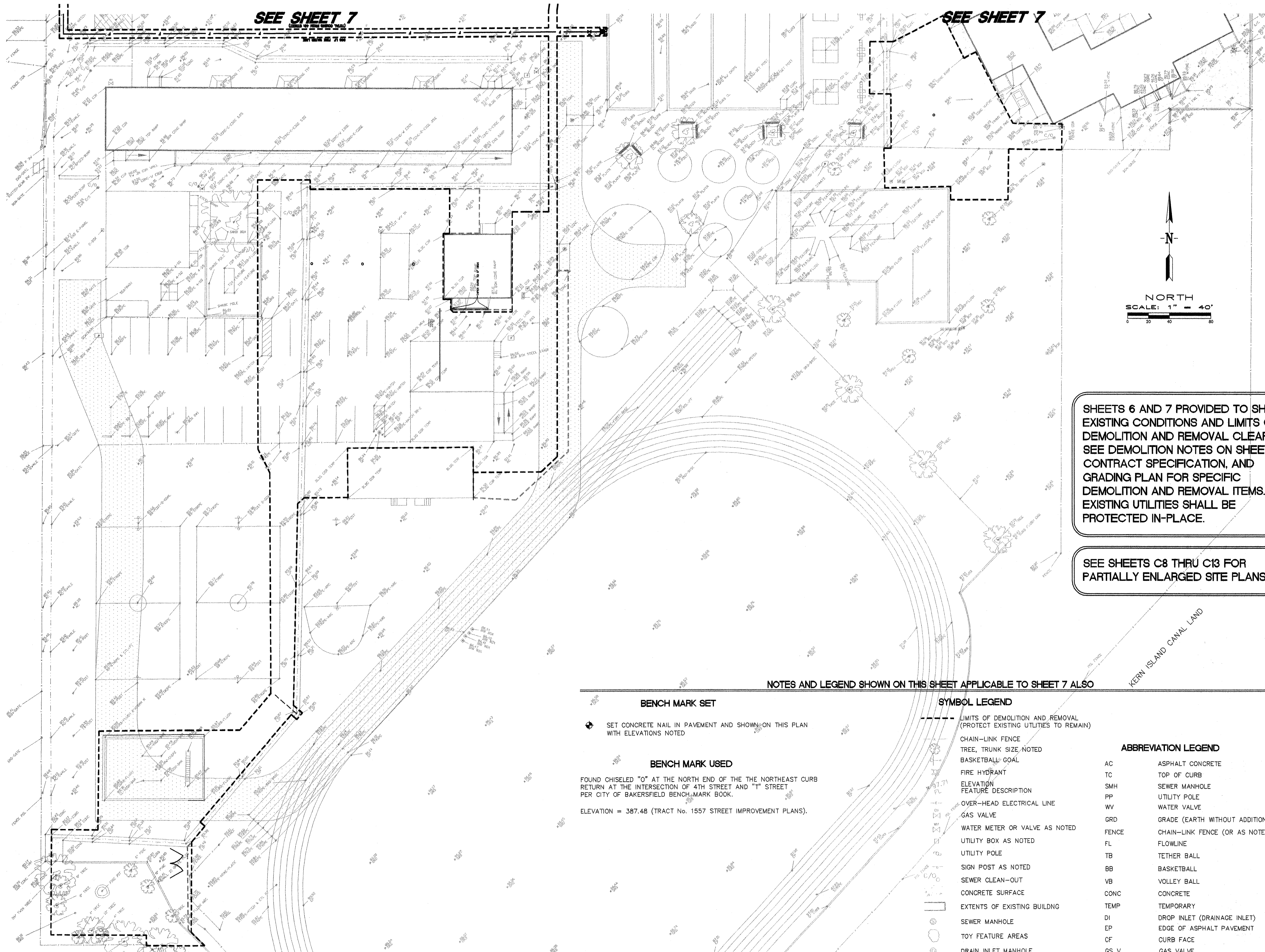
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Sheet Title
NOTES, DETAILS AND TYPICAL SECTIONS

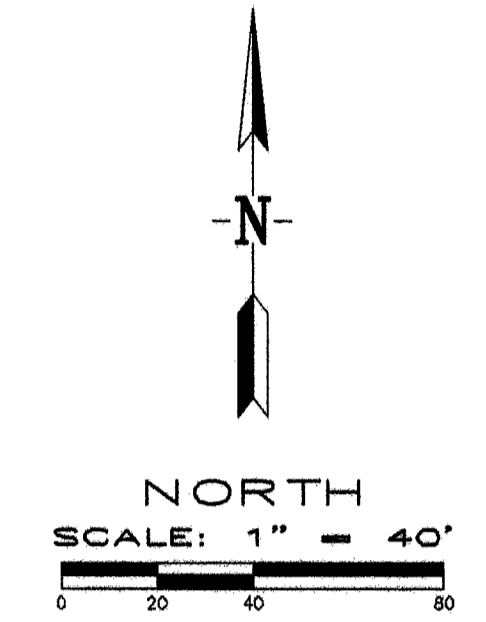
Sheet Number

C5



SEE SHEET 7

SEE SHEET 7



SHEETS 6 AND 7 PROVIDED TO SHOW EXISTING CONDITIONS AND LIMITS OF DEMOLITION AND REMOVAL CLEARLY. SEE DEMOLITION NOTES ON SHEET 2, CONTRACT SPECIFICATION, AND GRADING PLAN FOR SPECIFIC DEMOLITION AND REMOVAL ITEMS. EXISTING UTILITIES SHALL BE PROTECTED IN-PLACE.

SEE SHEETS C8 THRU C13 FOR PARTIALLY ENLARGED SITE PLANS.

NOTES AND LEGEND SHOWN ON THIS SHEET APPLICABLE TO SHEET 7 ALSO

BENCH MARK SET
 SET CONCRETE NAIL IN PAVEMENT AND SHOWN ON THIS PLAN WITH ELEVATIONS NOTED

BENCH MARK USED
 FOUND CHISELED "O" AT THE NORTH END OF THE THE NORTHEAST CURB RETURN AT THE INTERSECTION OF 4TH STREET AND "T" STREET PER CITY OF BAKERSFIELD BENCH-MARK BOOK.
 ELEVATION = 387.48 (TRACT No. 1557 STREET IMPROVEMENT PLANS).

SYMBOL LEGEND

- LIMITS OF DEMOLITION AND REMOVAL (PROTECT EXISTING UTILITIES TO REMAIN)
- CHAIN-LINK FENCE
- TREE, TRUNK SIZE NOTED
- BASKETBALL GOAL
- FIRE HYDRANT
- ELEVATION
- FEATURE DESCRIPTION
- OVER-HEAD ELECTRICAL LINE
- GAS VALVE
- WATER METER OR VALVE AS NOTED
- UTILITY BOX AS NOTED
- UTILITY POLE
- SIGN POST AS NOTED
- SEWER CLEAN-OUT
- CONCRETE SURFACE
- EXTENTS OF EXISTING BUILDING
- SEWER MANHOLE
- TOY FEATURE AREAS
- DRAIN INLET MANHOLE

ABBREVIATION LEGEND

AC	ASPHALT CONCRETE
TC	TOP OF CURB
SMH	SEWER MANHOLE
PP	UTILITY POLE
WV	WATER VALVE
GRD	GRADE (EARTH WITHOUT ADDITIONAL DESC.)
FENCE	CHAIN-LINK FENCE (OR AS NOTED)
FL	FLOWLINE
TB	TETHER BALL
BB	BASKETBALL
VB	VOLLEY BALL
CONC	CONCRETE
TEMP	TEMPORARY
DI	DROP INLET (DRAINAGE INLET)
EP	EDGE OF ASPHALT PAVEMENT
CF	CURB FACE
GS V	GAS VALVE

KERN ISLAND CANAL LAND



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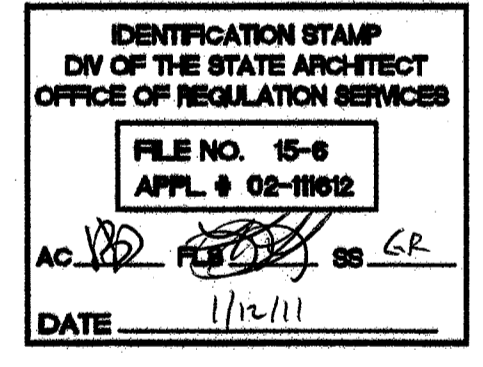
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Date: 12/15/10
 Comm. No.: 10-0801
 Drawn By: JF Checked By: -
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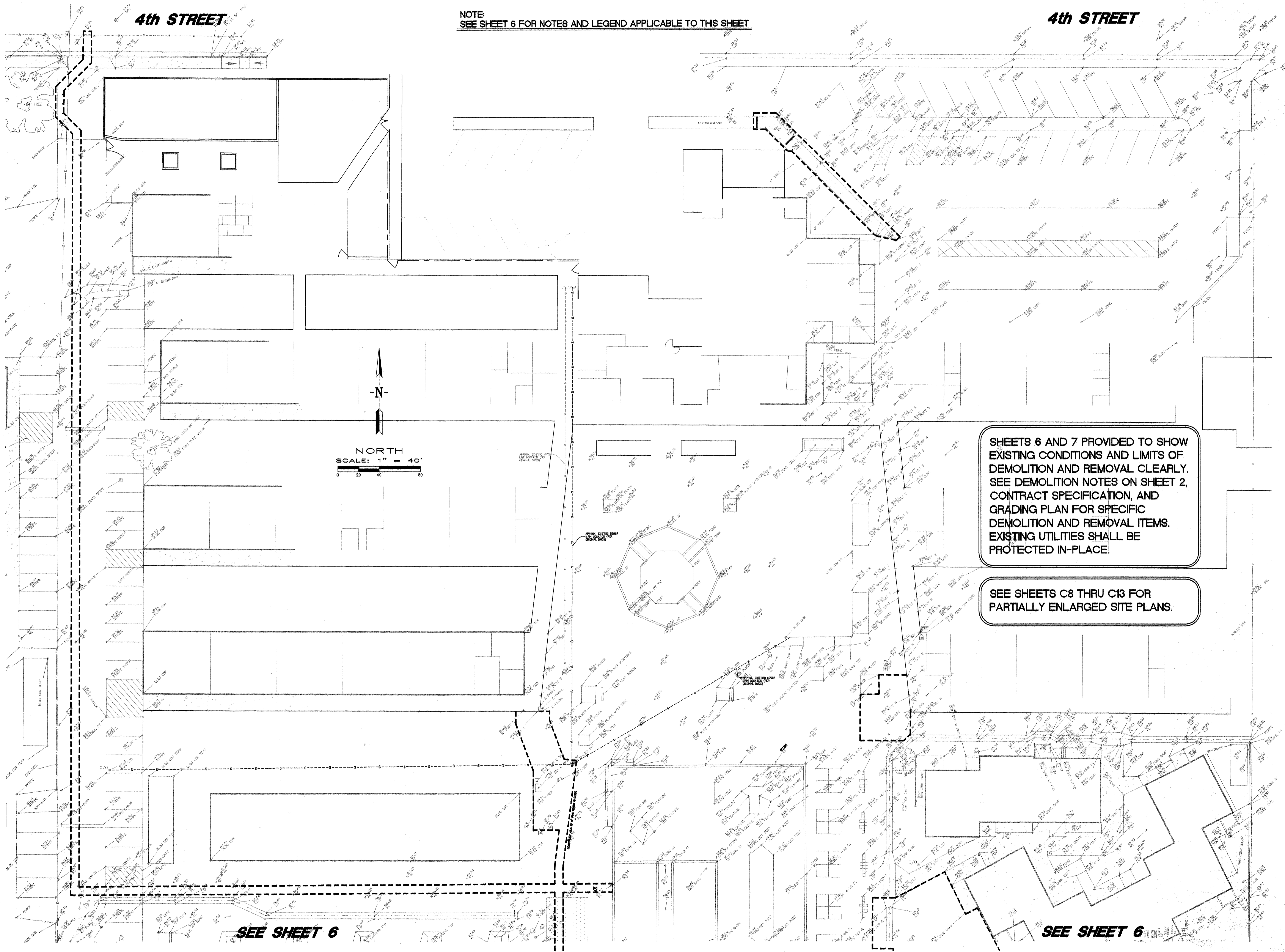
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Sheet Title
EXISTING CONDITIONS & DEMO

Sheet Number
C6

NOTE:
SEE SHEET 6 FOR NOTES AND LEGEND APPLICABLE TO THIS SHEET



SHEETS 6 AND 7 PROVIDED TO SHOW EXISTING CONDITIONS AND LIMITS OF DEMOLITION AND REMOVAL CLEARLY. SEE DEMOLITION NOTES ON SHEET 2, CONTRACT SPECIFICATION, AND GRADING PLAN FOR SPECIFIC DEMOLITION AND REMOVAL ITEMS. EXISTING UTILITIES SHALL BE PROTECTED IN-PLACE.

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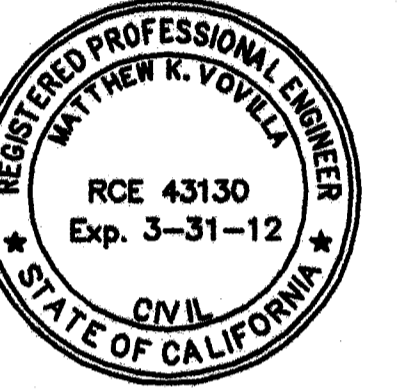
SEE SHEET 6

SEE SHEET 6



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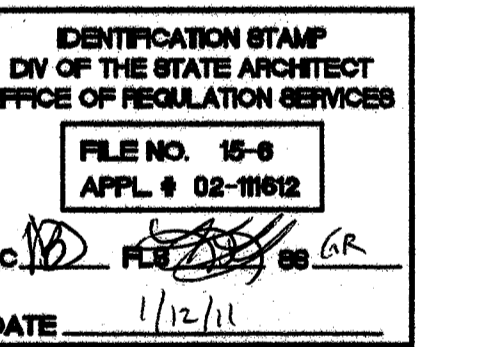
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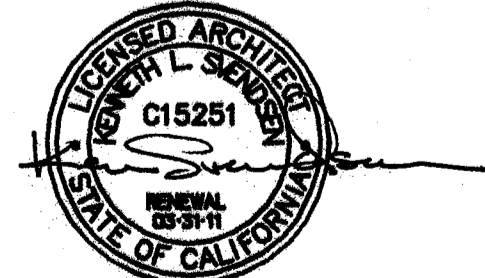
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Date: 12/15/10
Comm. No.: 10-0861
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Sheet Title
EXISTING CONDITIONS & DEMO

Sheet Number
C7



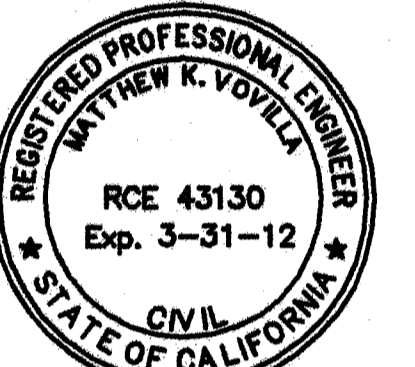
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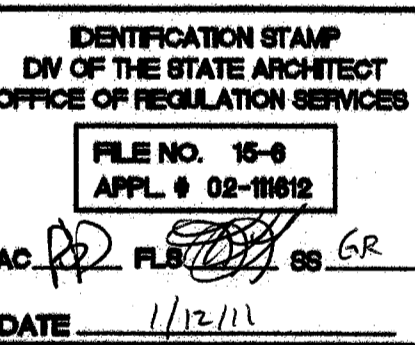
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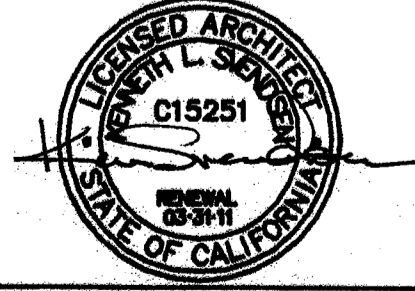
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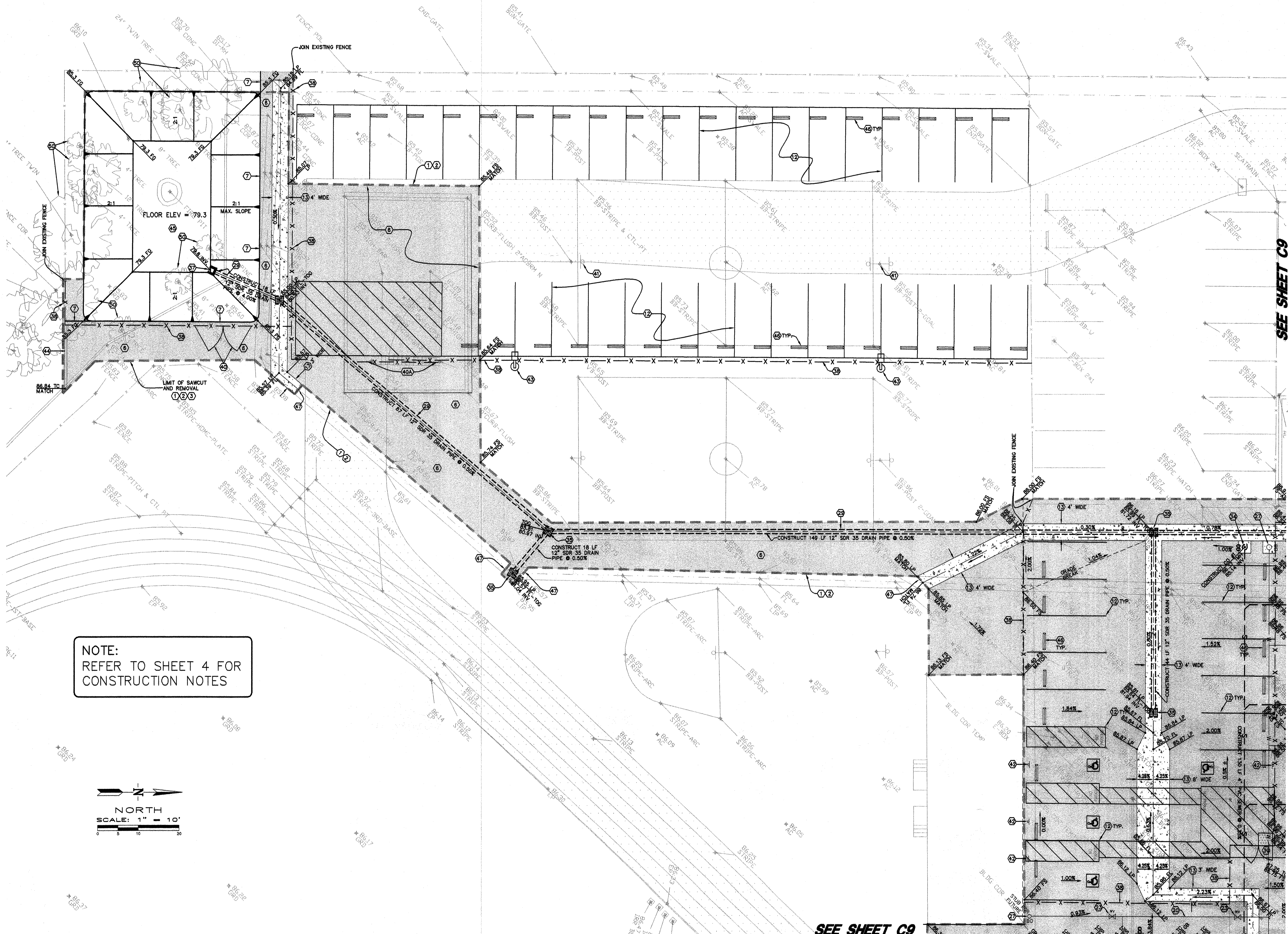


Sheet Title
**GRADING AND
SITE
IMPROVEMENTS**

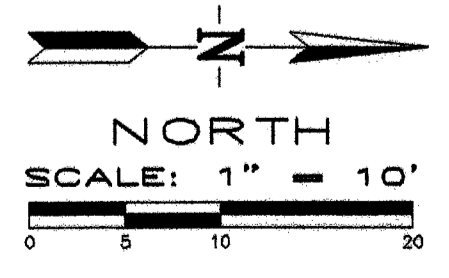
Sheet Number

C8

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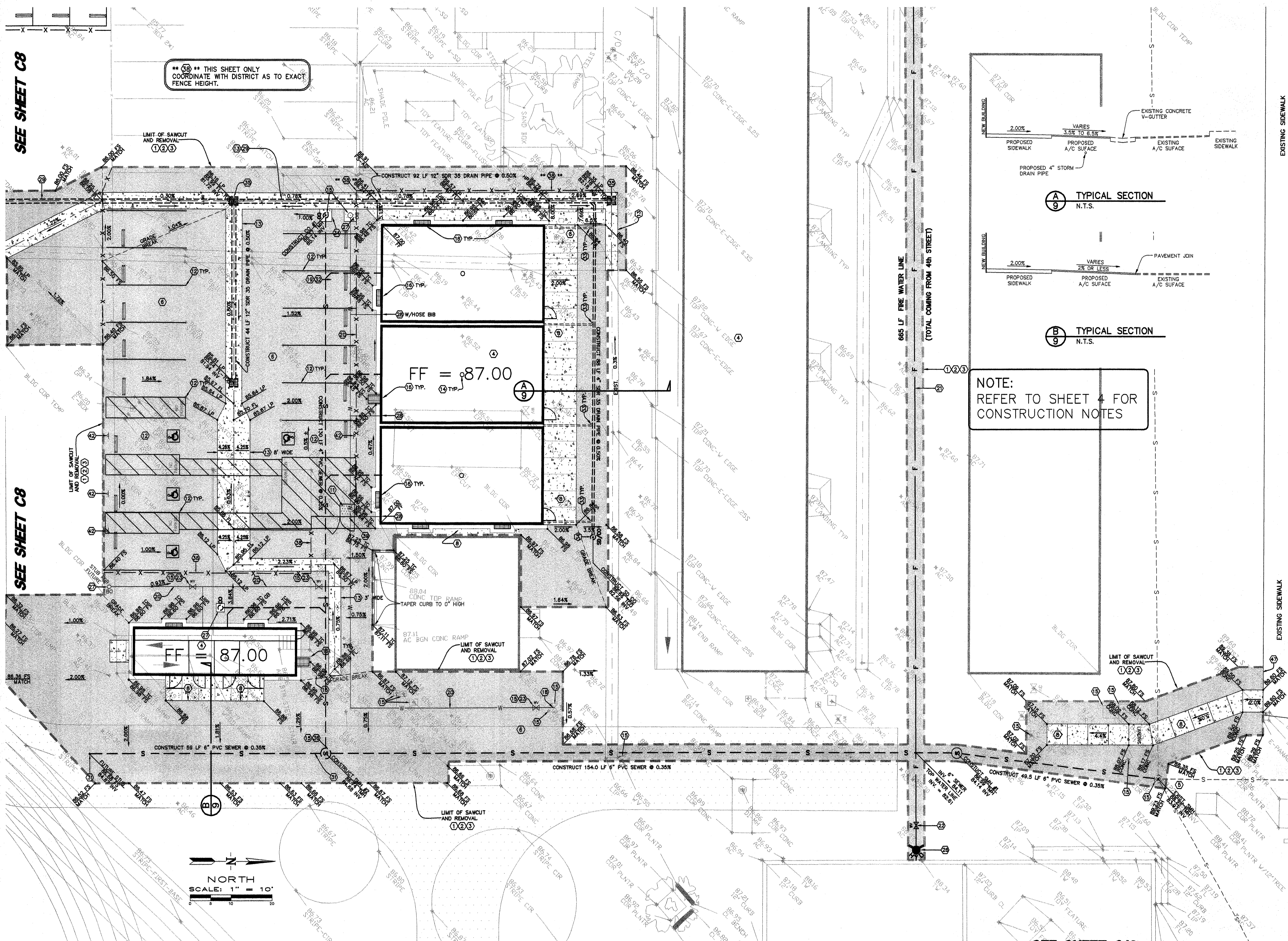


NOTE:
REFER TO SHEET 4 FOR
CONSTRUCTION NOTES



SEE SHEET C9

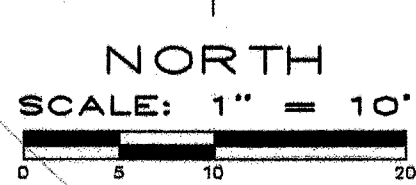
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** 58 ** THIS SHEET ONLY
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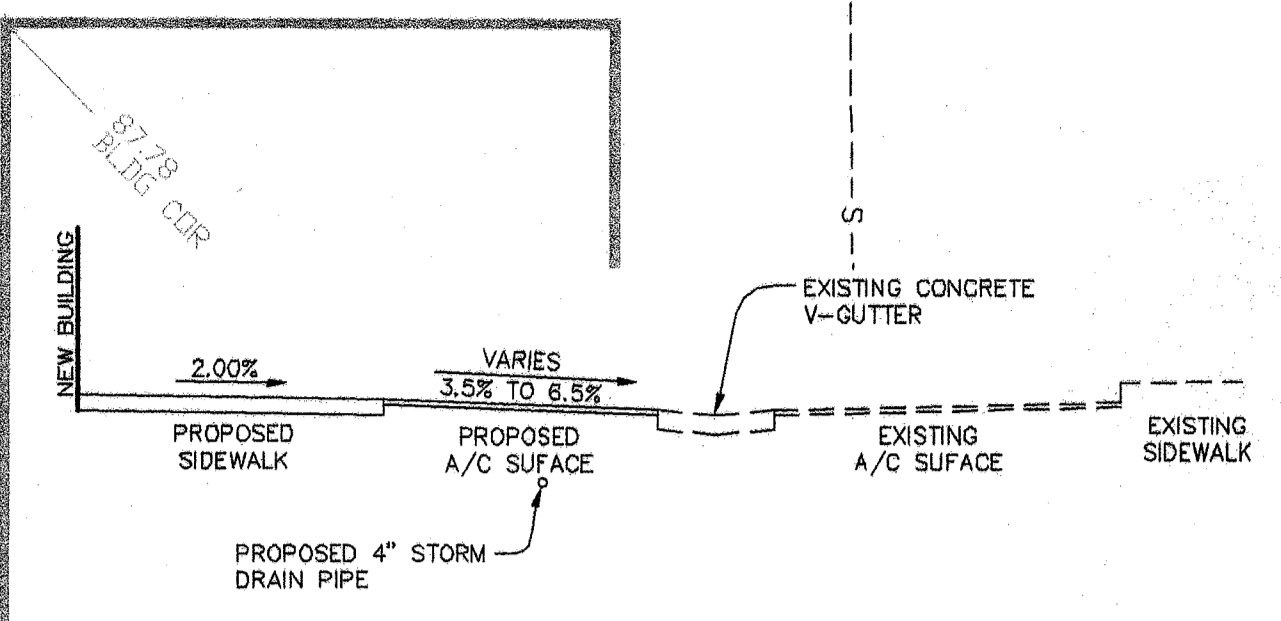
SEE SHEET C8

SEE SHEET C8

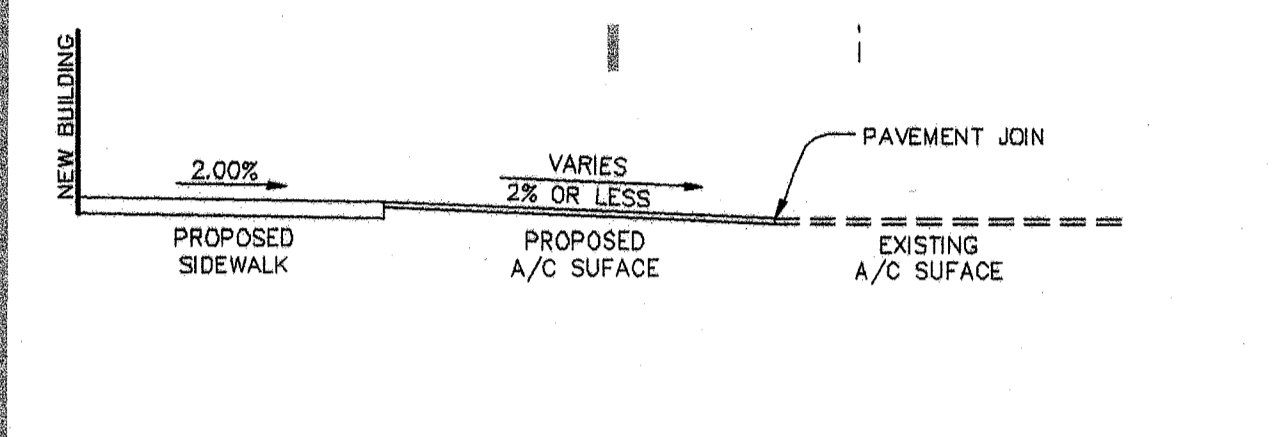


NOTE:
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A TYPICAL SECTION
N.T.S.



B TYPICAL SECTION
N.T.S.



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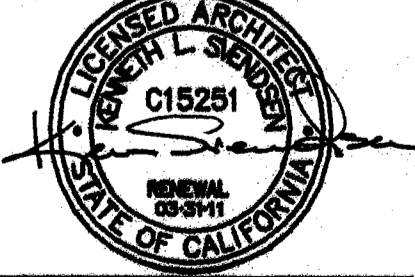
Revisions

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Project Title
**McKINLEY
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CLASSROOMS**

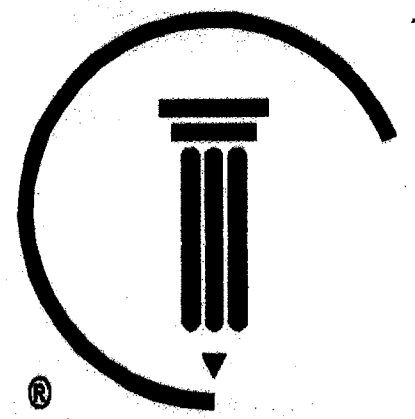


Sheet Title
**GRADING AND
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SEE SHEET C10



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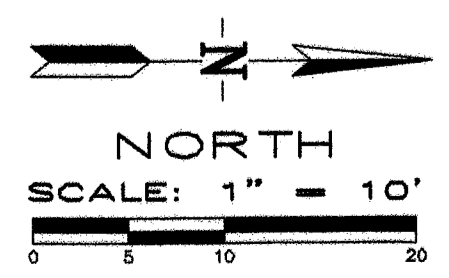
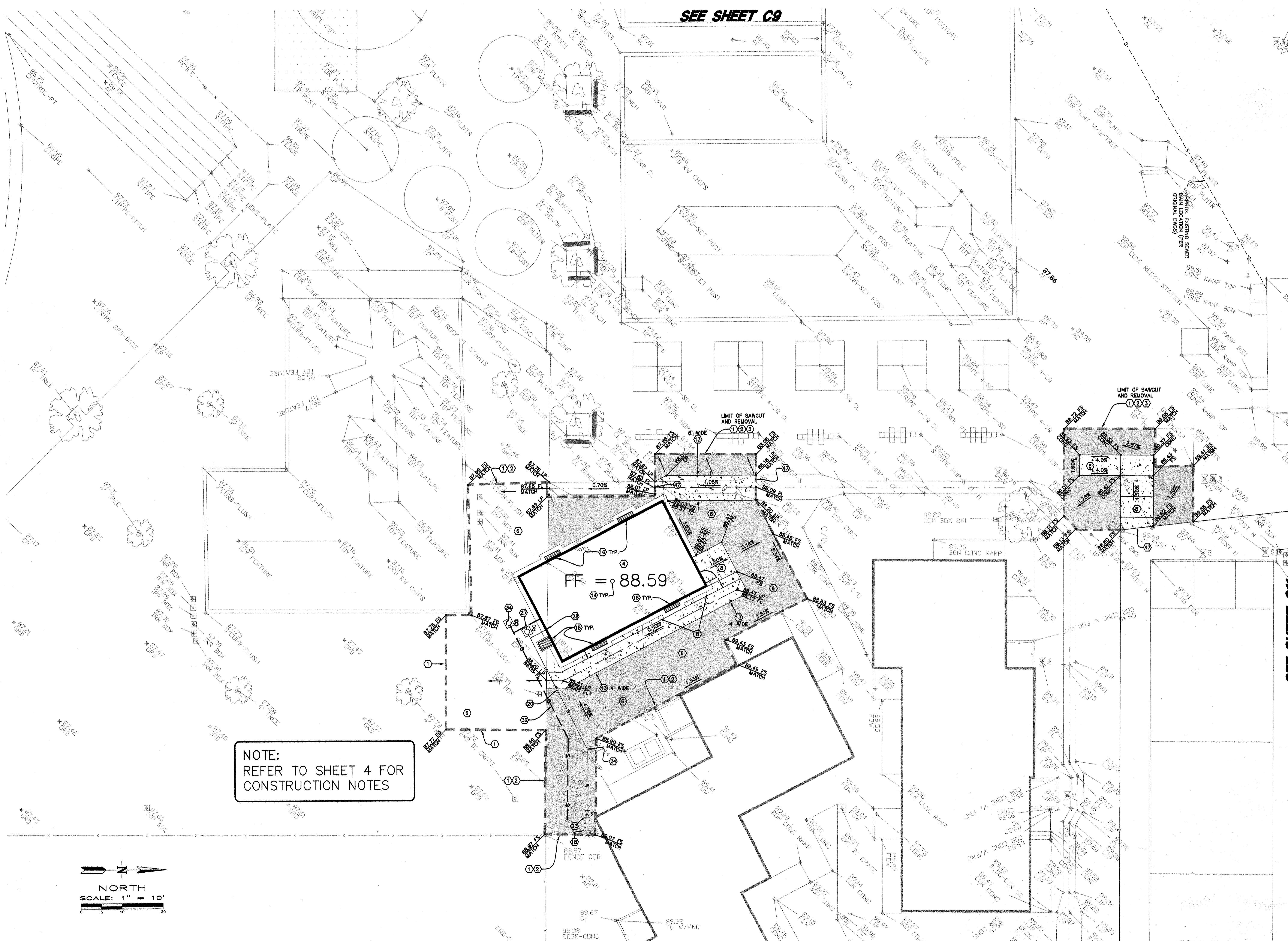
Project Title
McKINLEY ELEMENTARY PERMANENT MODULAR CLASSROOMS



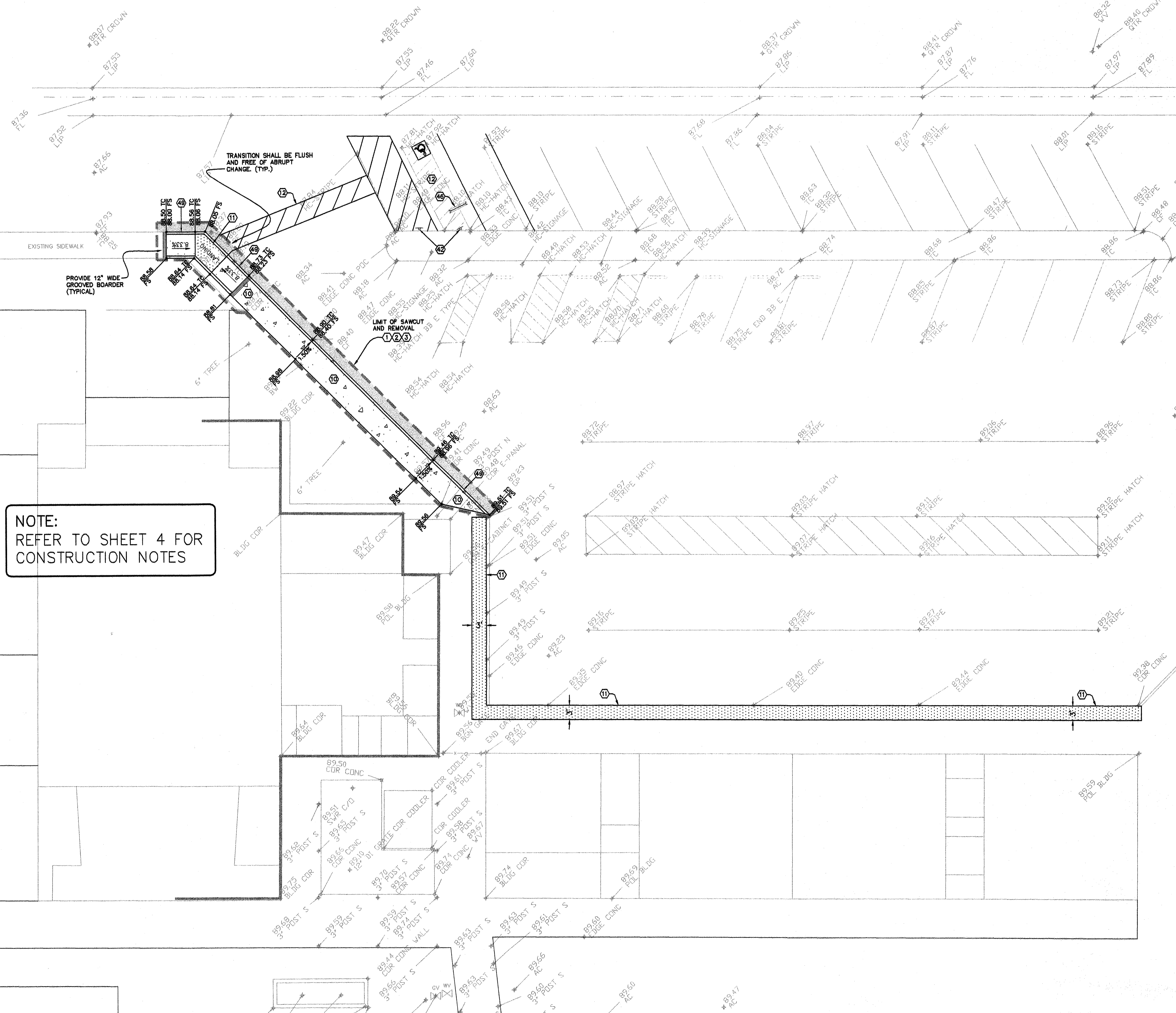
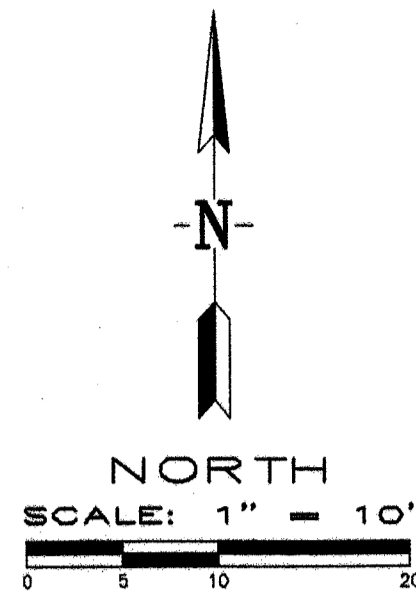
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GRADING AND SITE IMPROVEMENTS

Sheet Number
C10

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SEE SHEET C11



NOTE:
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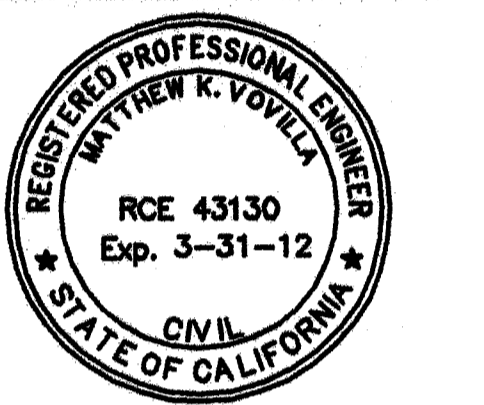


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Sheet Title
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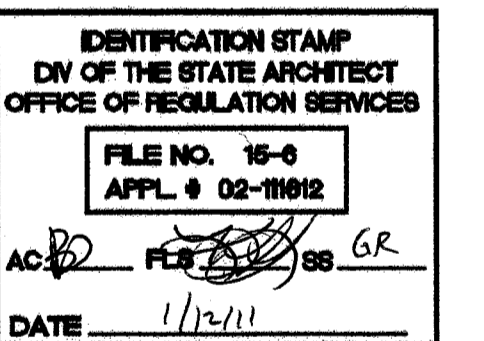
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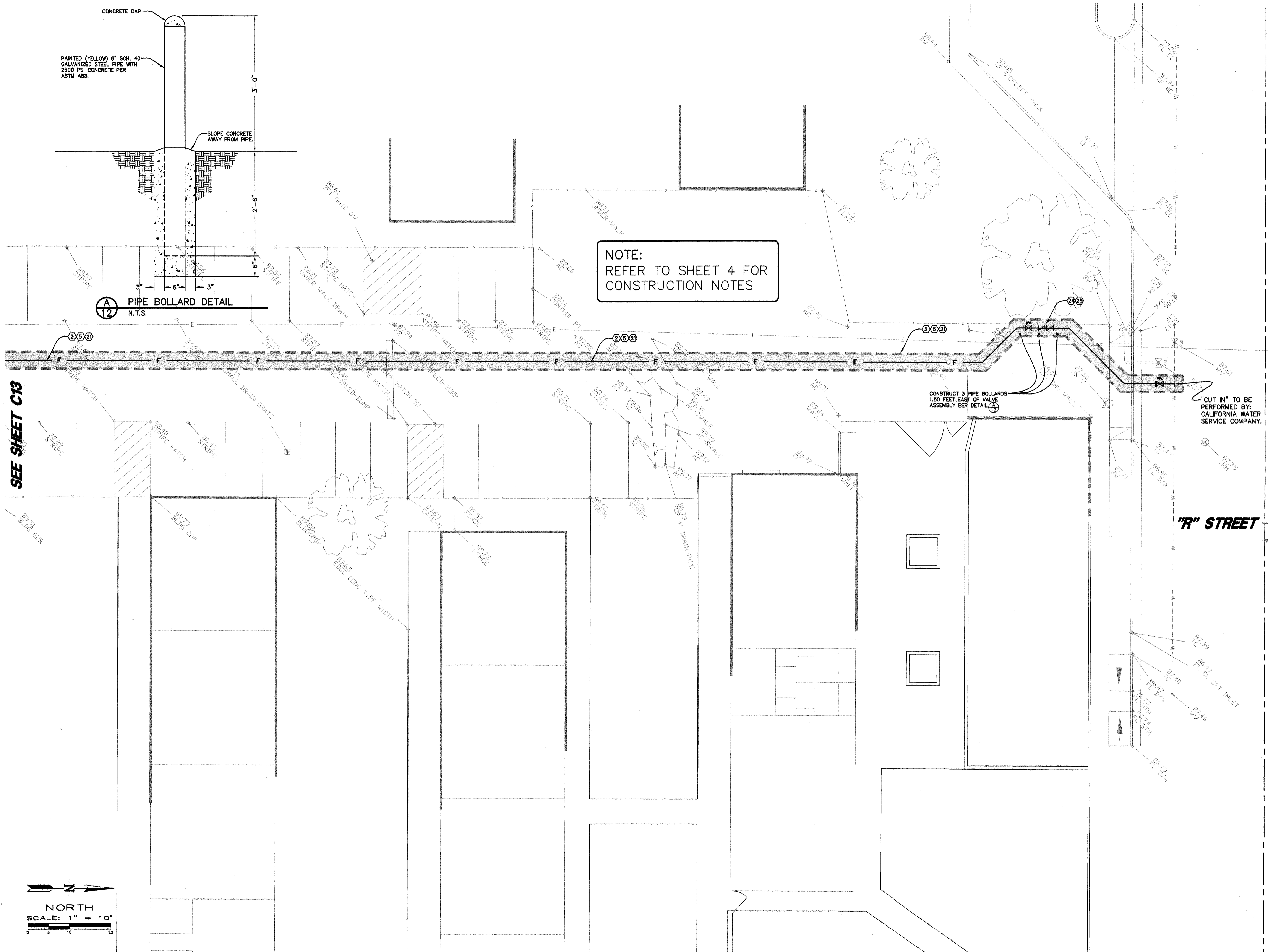
Project Title
McKINLEY ELEMENTARY PERMANENT MODULAR CLASSROOMS



Sheet Title
GRADING AND SITE IMPROVEMENTS

Sheet Number
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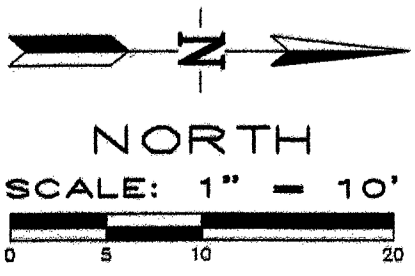
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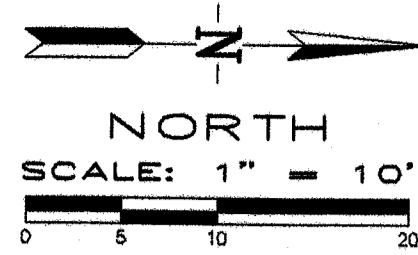


NOTE:
REFER TO SHEET 4 FOR
CONSTRUCTION NOTES

(A) PIPE BOLLARD DETAIL
N.T.S.

SEE SHEET C13





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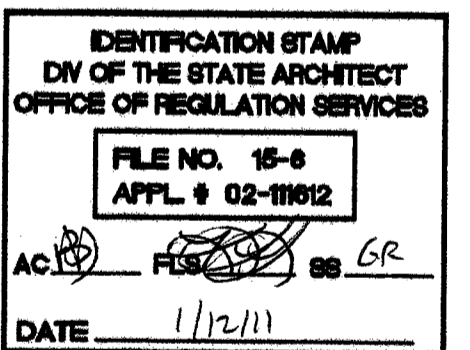
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Project Title

**McKINLEY
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CLASSROOMS**



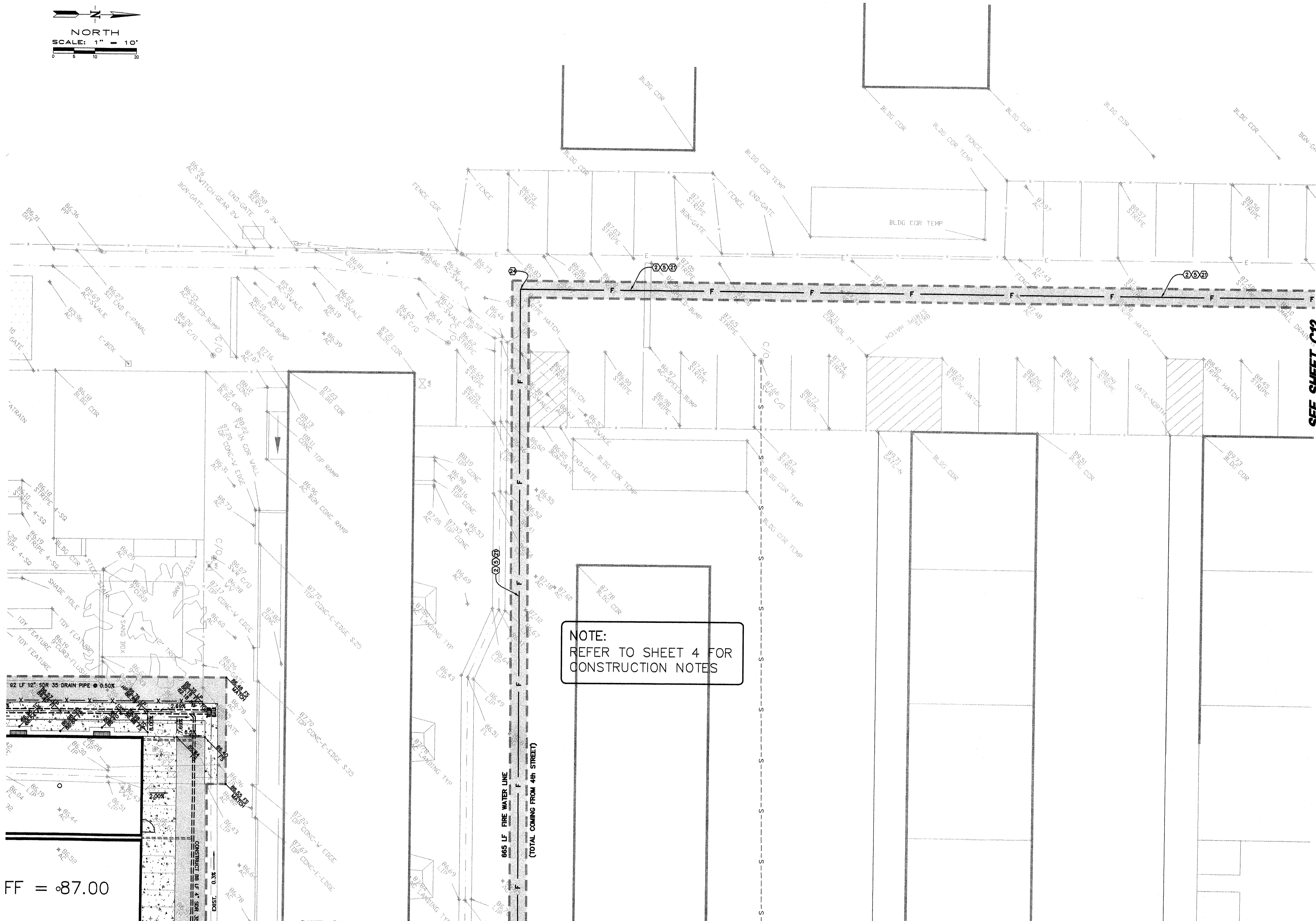
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**GRADING AND
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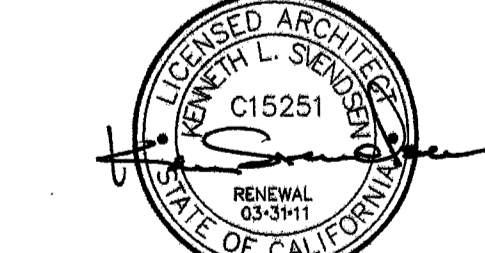
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Project Title
McKINLEY ELEMENTARY PERMANENT MOD. CLASSROOMS



Sheet Title
SITE PLAN

Sheet Number

AS101

PARKING ANALYSIS:

PARKING LOT	TOTAL # OF SPACES	REQUIRED # OF ACCESSIBLE STALLS	# OF ACCESSIBLE STALLS PROVIDED
AREA 'A' STAFF	14	1	2
AREA 'B' PUBLIC	13	1	1
AREA 'C' STAFF	95	4	4

UNDER FLOOR VENTILATION (PER CBC SECTION 1203.3.2 EXP. #2)

MODULAR BUILDING	VENTILATION REQUIRED	VENTILATION PROVIDED
PC1-PC3	2880 SF / 1500 = 1.92 SF	(6) 4'-0" VENTS @ 2.25 SF EA + 1.60 SF ACCESS ¹ = 15.1 SF
PC4	960 SF / 1500 = 0.64 SF	(4) 4'-0" VENTS @ 2.25 SF EA + 1.60 SF ACCESS ¹ = 10.6 SF
PTRB	480 SF / 1500 = 0.32 SF	(2) 4'-0" VENTS @ 2.25 SF EA + 1.60 SF ACCESS ¹ = 6.1 SF

- 24" W x 16" H CRAWL SPACE ACCESS OPEN'G W/ 60% MIN OPEN GRATING = 1.60 SF OF VENTILATION
- PROVIDE 10 MIL POLY SHEETING IN CRAWL SPACE (REQUIRED TO USE VENTILATION RATIO OF 1/1500)
- EACH 48"x12" POLYVENT UNIT PROVIDES 2.25 SF MIN. OF FREE VENTILATION AREA. PROVIDE MODEL PN#D61301.

ALLOWABLE AREA CALCULATION:

THE SOUTH-WEST GROUPING OF BUILDINGS (PC1-PC3 & MTRB)

(3) PERMANENT MODULAR CLASSROOMS 2880 SF
(1) PERMANENT MODULAR TOILET ROOM BUILDING (PTRB) 480 SF
EXISTING CLASSROOM BUILDING #30 960 SF
EXISTING CLASSROOMS #31 & 32 1440 SF
TOTAL SQUARE FOOTAGE 5760 SF
5760 SF IS LESS THAN THE ALLOWABLE AREA OF 9500 SF

THE SOUTH-EAST PORTABLE CLASSROOM PC4

(1) PERMANENT MODULAR CLASSROOM 960 SF
960 SF IS LESS THAN THE ALLOWABLE AREA OF 9500 SF

OCCUPANCY & TYPE OF CONSTRUCTION:

OCCUPANCY
TYPE V-B CONSTRUCTION

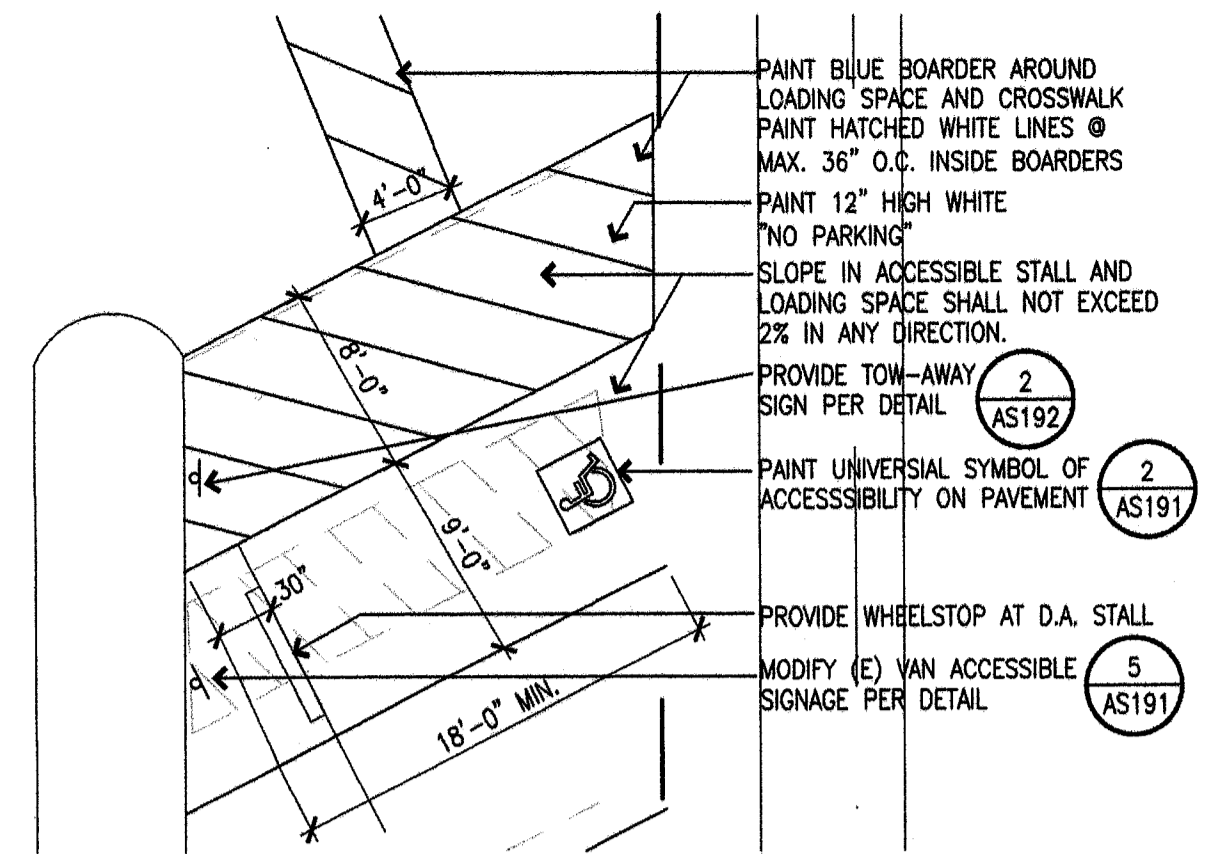
CODE ANALYSIS METHODOLOGY:

IMAGINARY PROPERTY LINES WERE CREATED PER SECTION 704.3 TO AVOID ANY RATED CONSTRUCTION OR PROTECTED OPENINGS. THE NEW MODULAR CLASSROOMS PC1-PC3 AND THE PERMANENT MODULAR TOILET ROOM BUILDING, PTRB, ARE GROUPED WITH THE EXISTING CLASSROOMS 30-32. THE AGGREGATE AREA OF THESE SEVEN BUILDINGS WAS USED TO DETERMINE CODE COMPLIANCE UNDER SECTION 503.1.2 BUILDINGS ON THE SAME LOT. THE NEW MODULAR CLASSROOM PC4 IS LOCATED ON THE EAST SIDE OF THE SITE WITH AN IMAGINARY PROPERTY LINE SEPARATING IT FROM THE EXISTING CLASSROOMS.

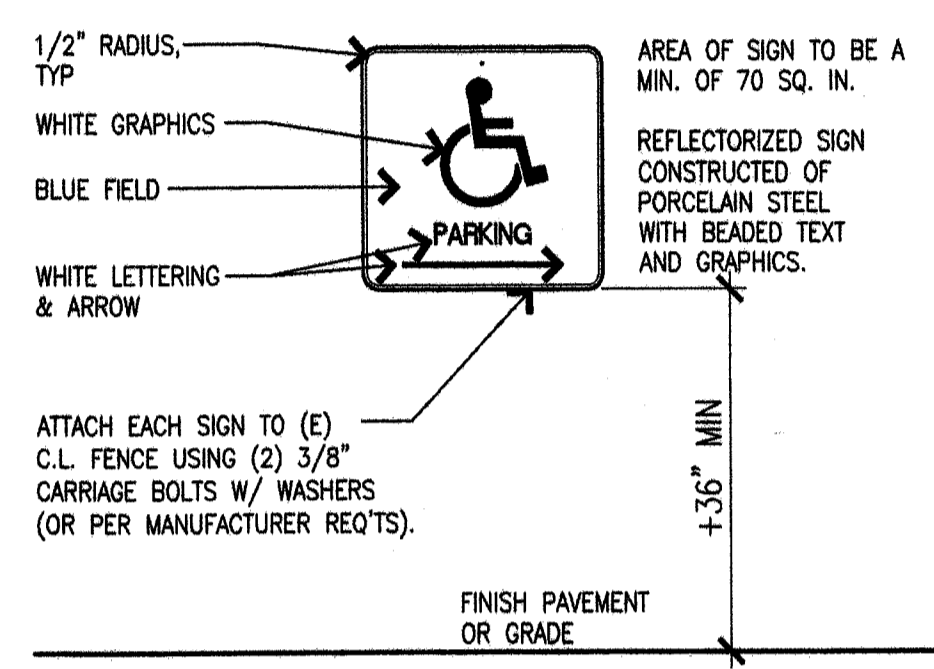
PATH OF TRAVEL (POT):

A PATH OF TRAVEL IS A COMMON BARRIER FREE ACCESSIBLE ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. PASSING SPACES AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED AS A RAMP. CROSS-SLOPE DOES NOT EXCEED 2%. MAINTAIN POT FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN., PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE.

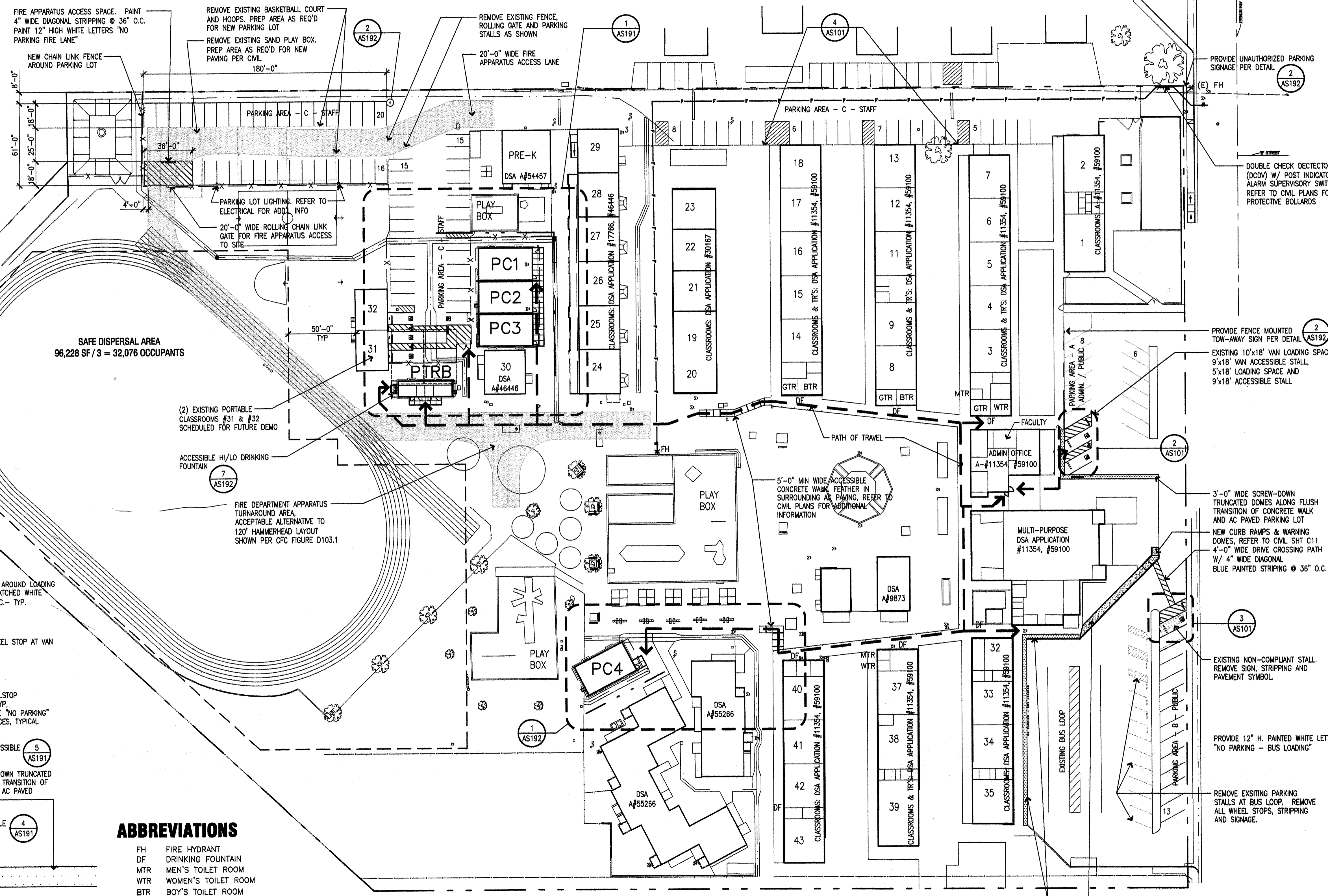
--- -- -- -- --> DENOTES PATH OF TRAVEL



3 PARTIAL SITE PLAN
AS101 SCALE: 1" = 8'-0"



4 DIRECTIONAL D.A. PARKING SIGNAGE
AS101 SCALE: N.T.S.



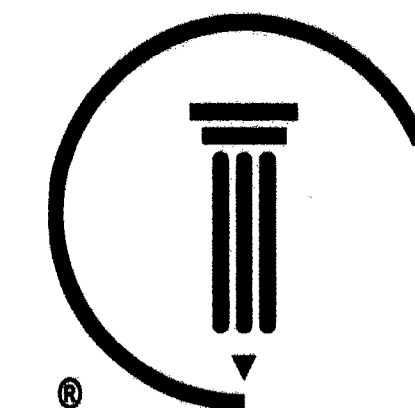
ABBREVIATIONS

- FH FIRE HYDRANT
- DF DRINKING FOUNTAIN
- MTR MEN'S TOILET ROOM
- WTR WOMEN'S TOILET ROOM
- BTR BOY'S TOILET ROOM
- GTR GIRL'S TOILET ROOM

2 PARTIAL SITE PLAN
AS101 SCALE: 1" = 8'-0"

1 SITE PLAN
AS101 SCALE: 1" = 40'-0"





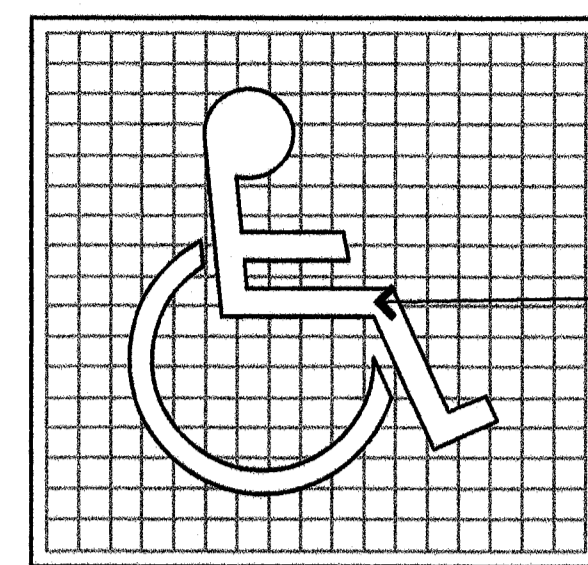
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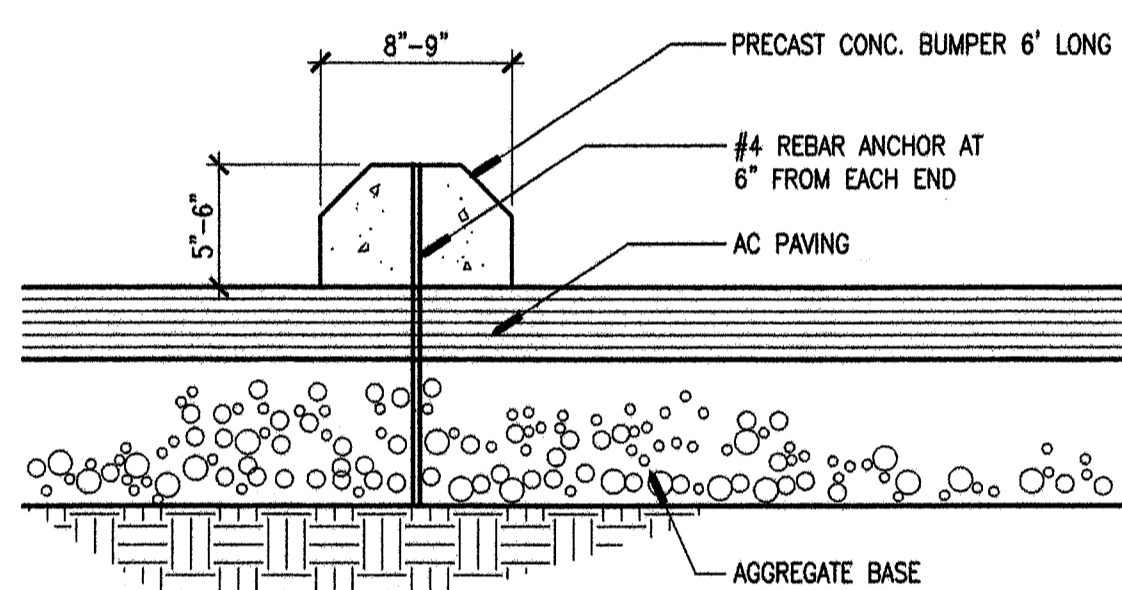
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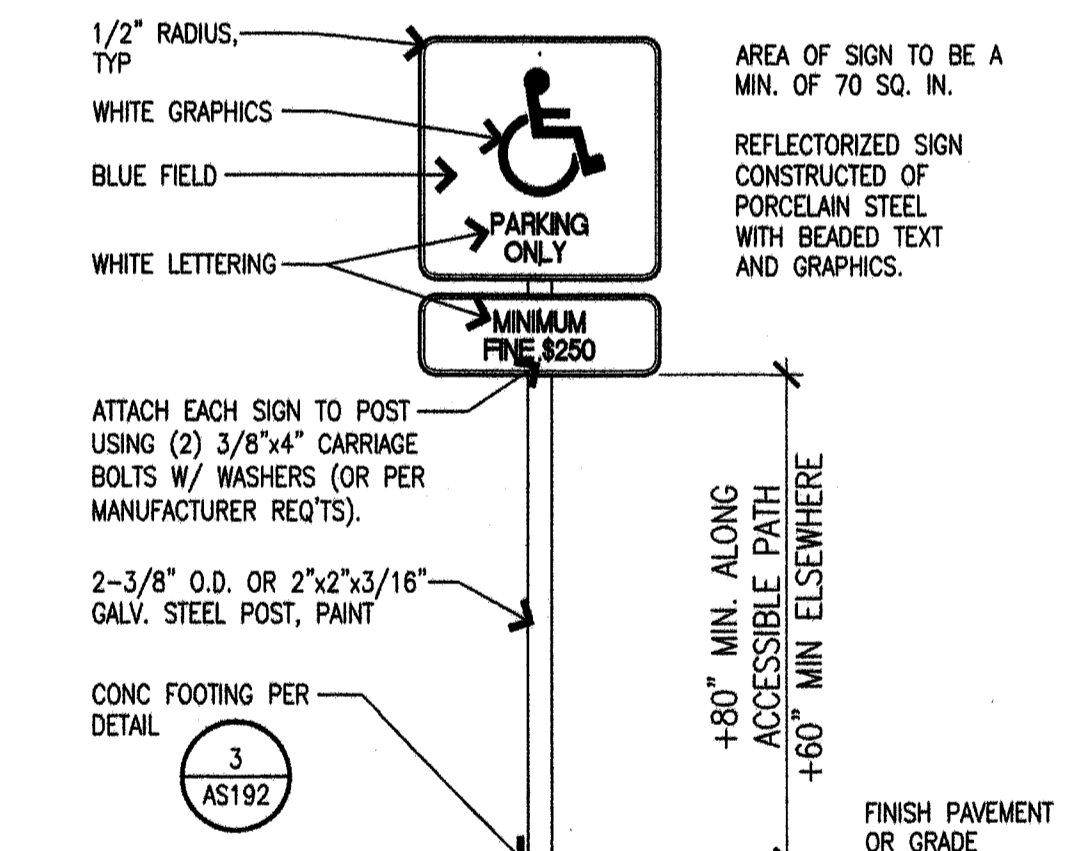
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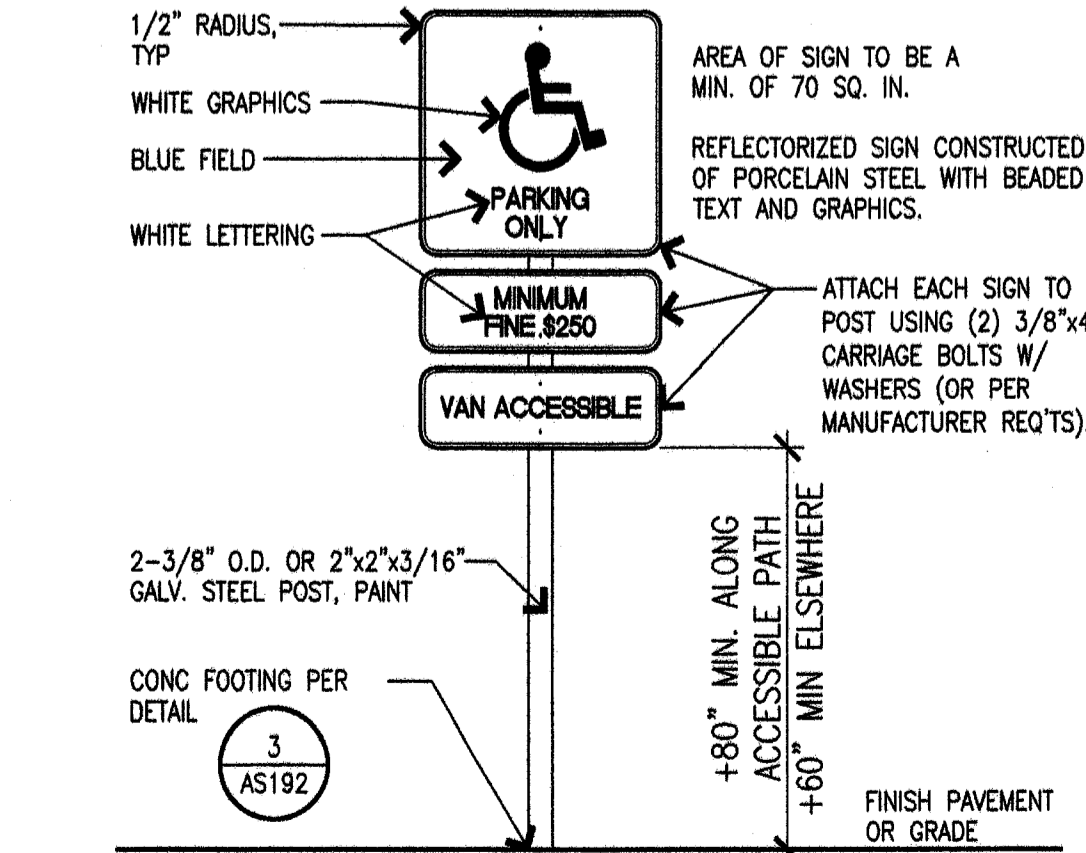
2 D.A. PARKING SYMBOL AS191 SCALE: N.T.S.



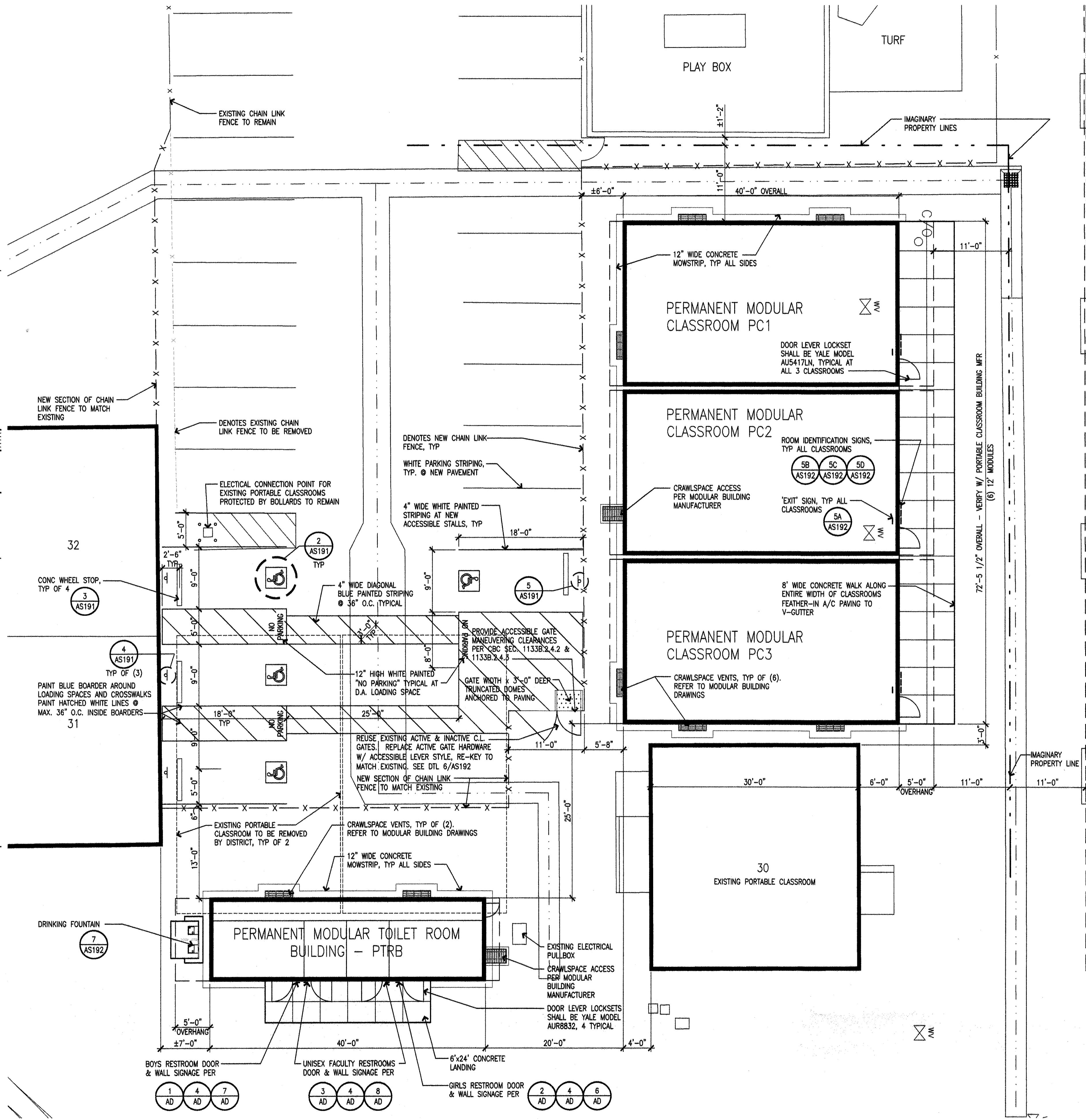
3 WHEEL STOP AS191 SCALE: 1 1/2" = 1'-0"



4 D.A. PARKING SIGNAGE AS191 SCALE: N.T.S.



5 D.A. VAN PARKING SIGNAGE AS191 SCALE: N.T.S.



1 ENLARGED SITE PLAN AS191 SCALE: 1/8" = 1'-0"

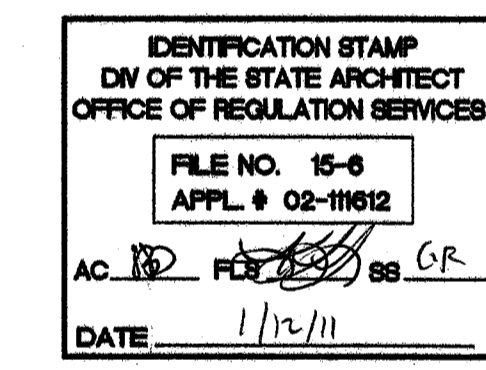
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24



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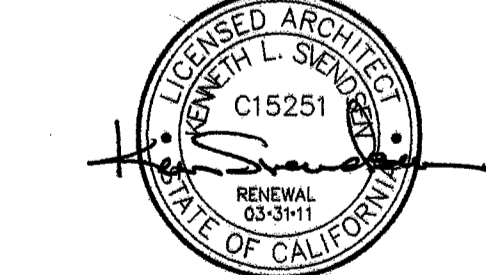
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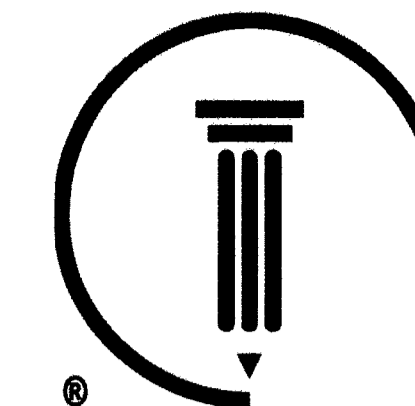
McKINLEY ELEMENTARY PERMANENT MOD. CLASSROOMS



Sheet Title ENLARGED SITE PLAN

Sheet Number

AS191



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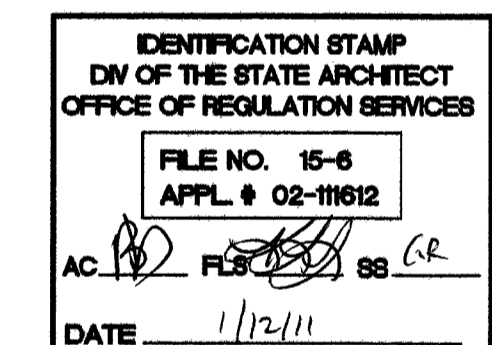
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Table with 3 columns: No., Date, Description. Contains several blank rows for revisions.



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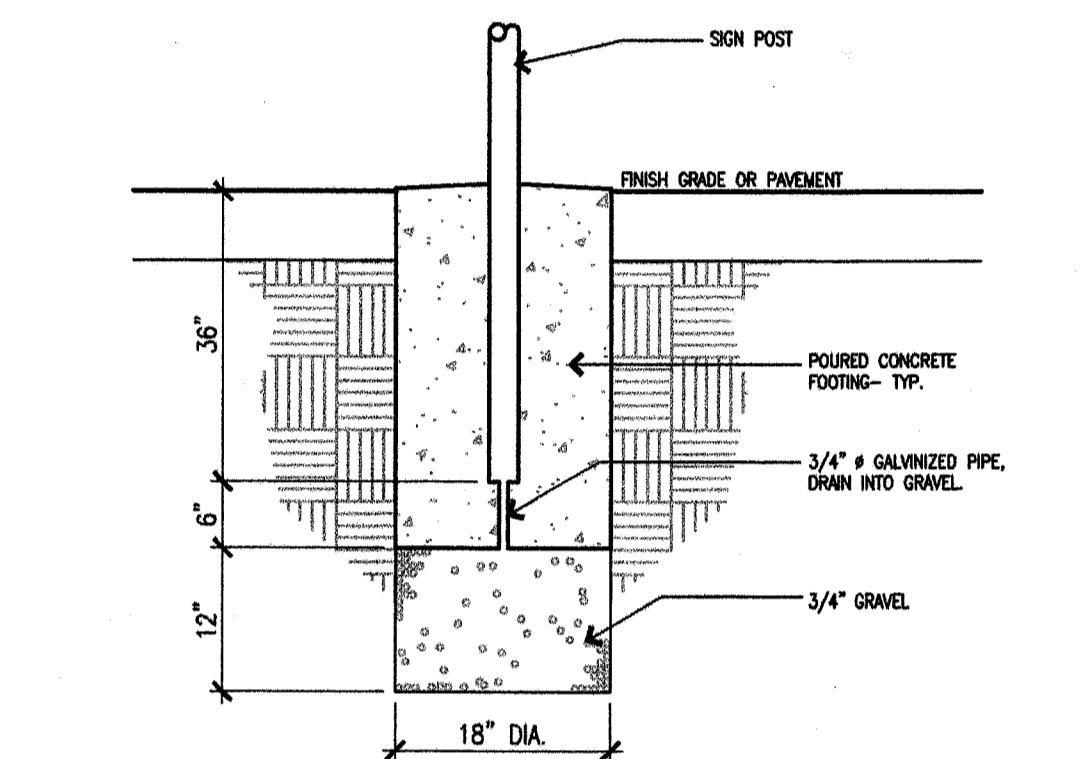
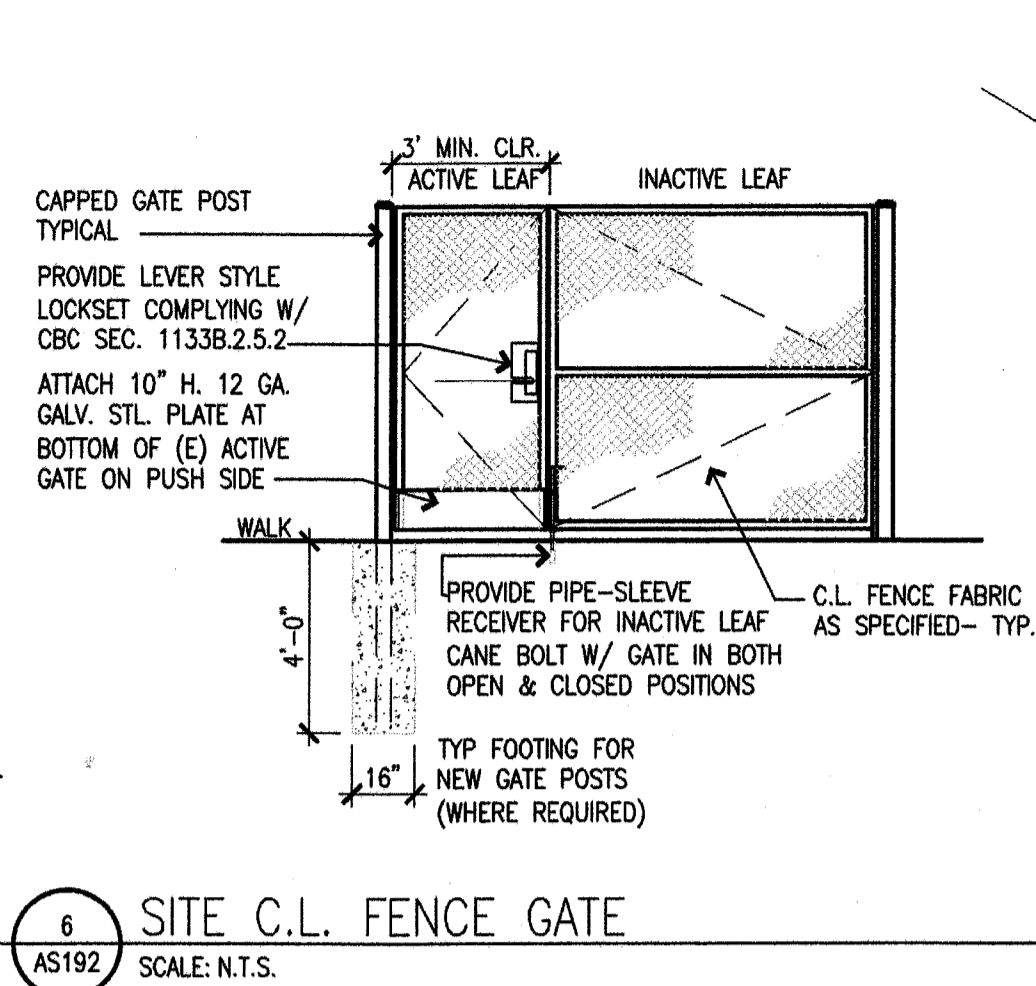
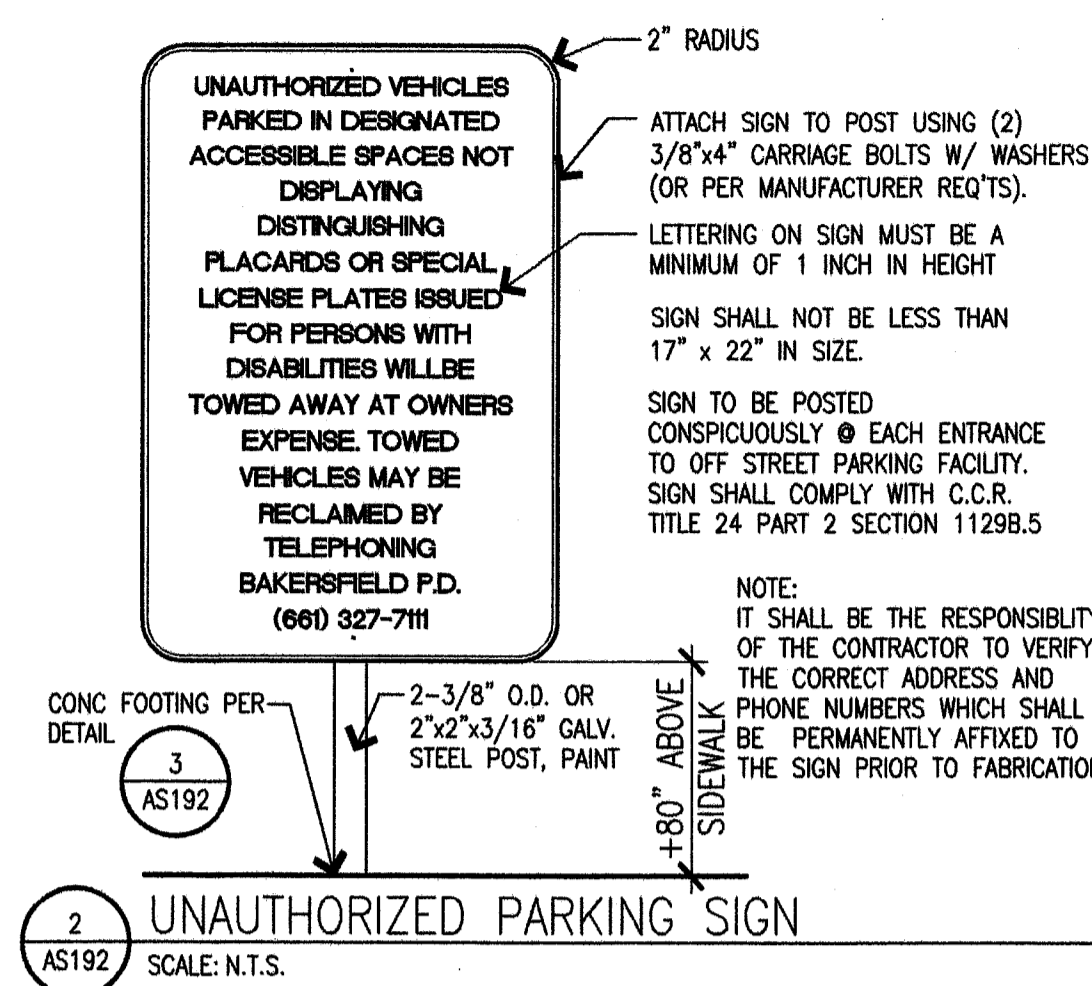
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Sheet Title ENLARGED SITE PLAN

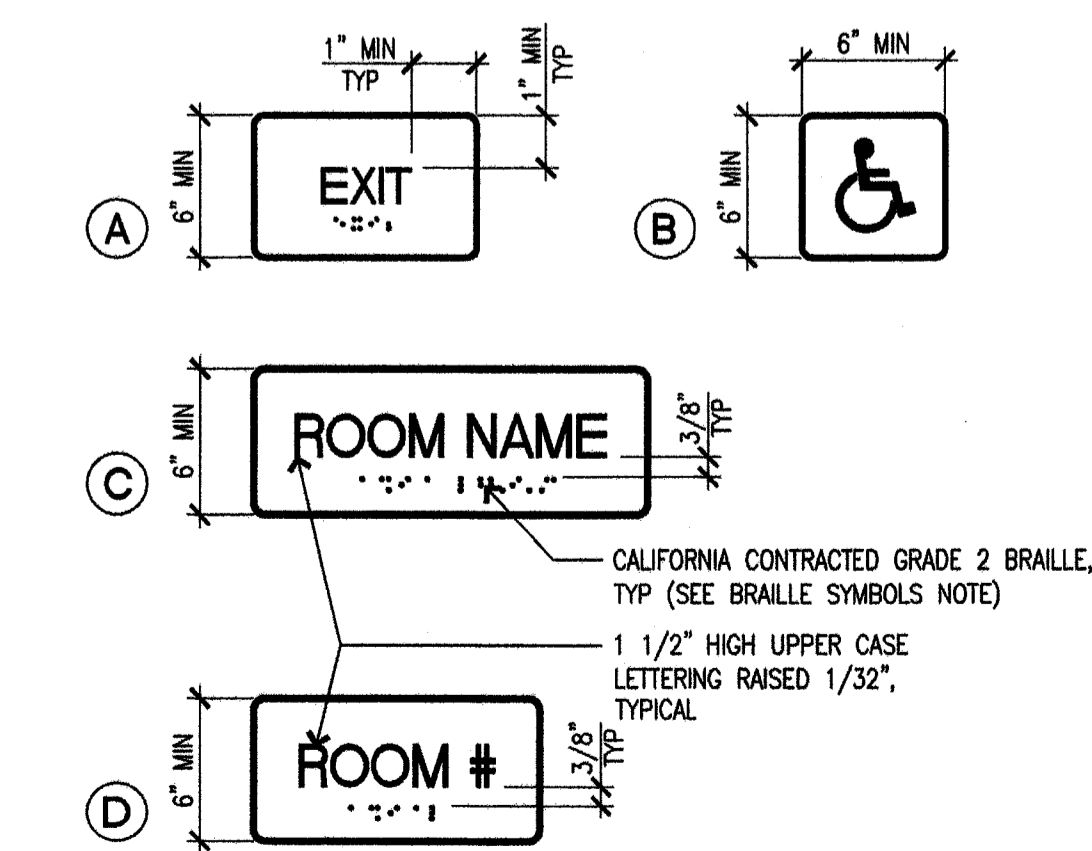
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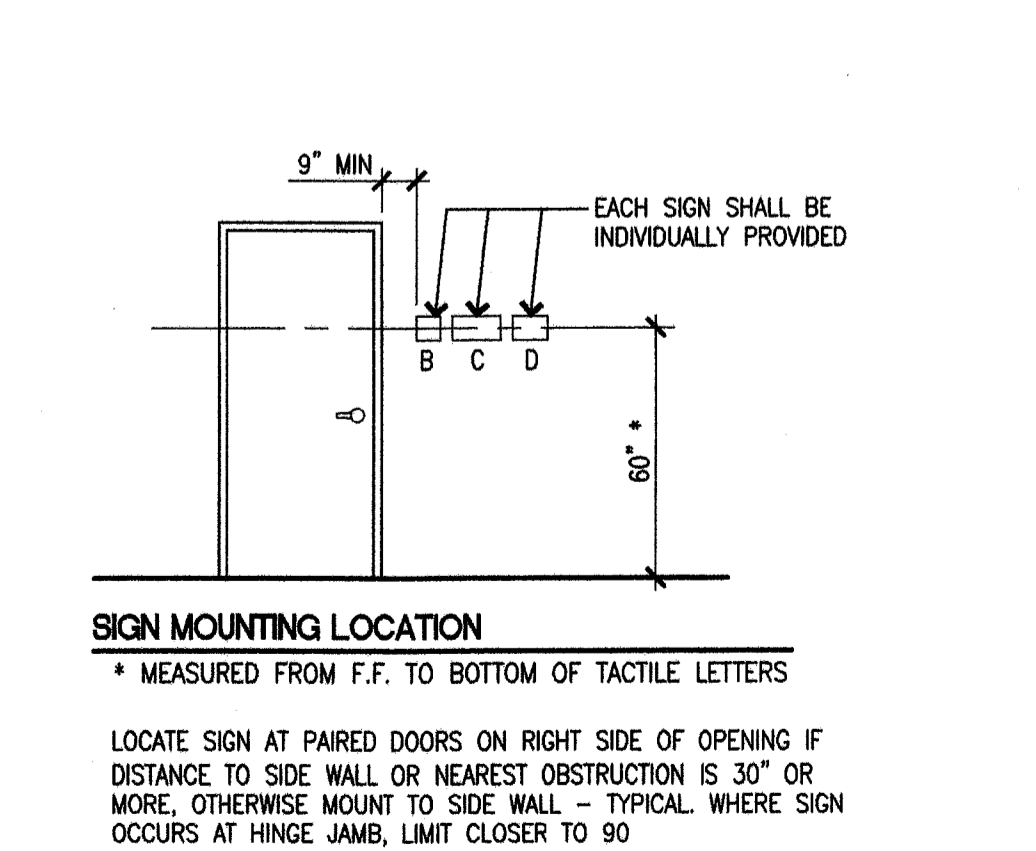
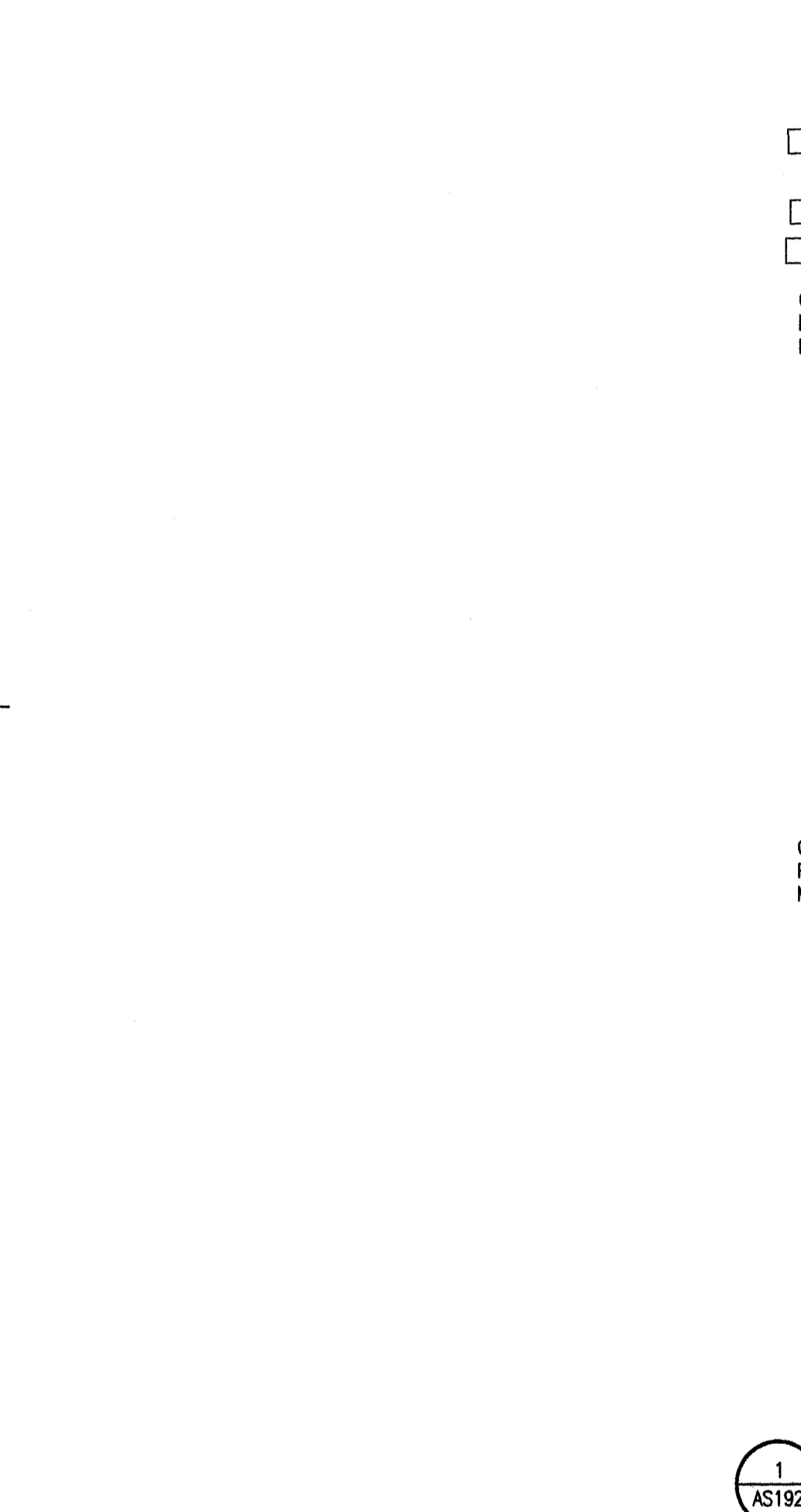


3 SIGN POST FOOTING SCALE: 3/4" = 1'-0"

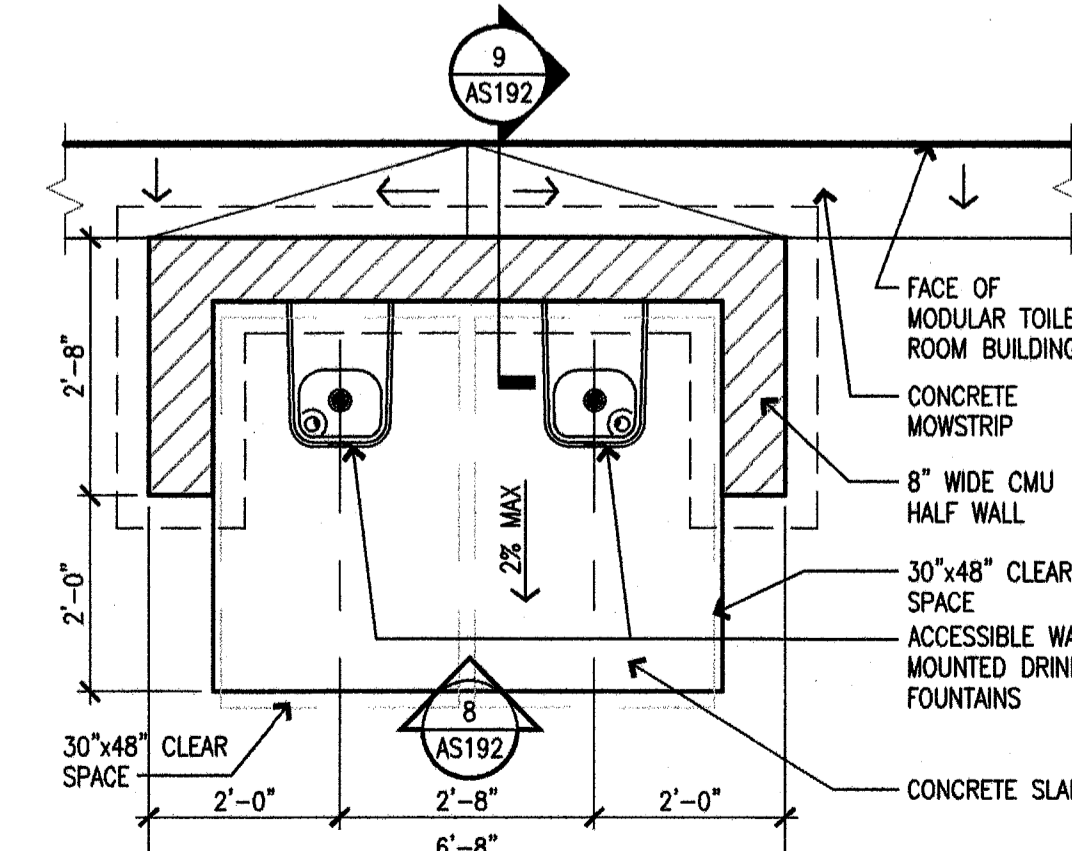
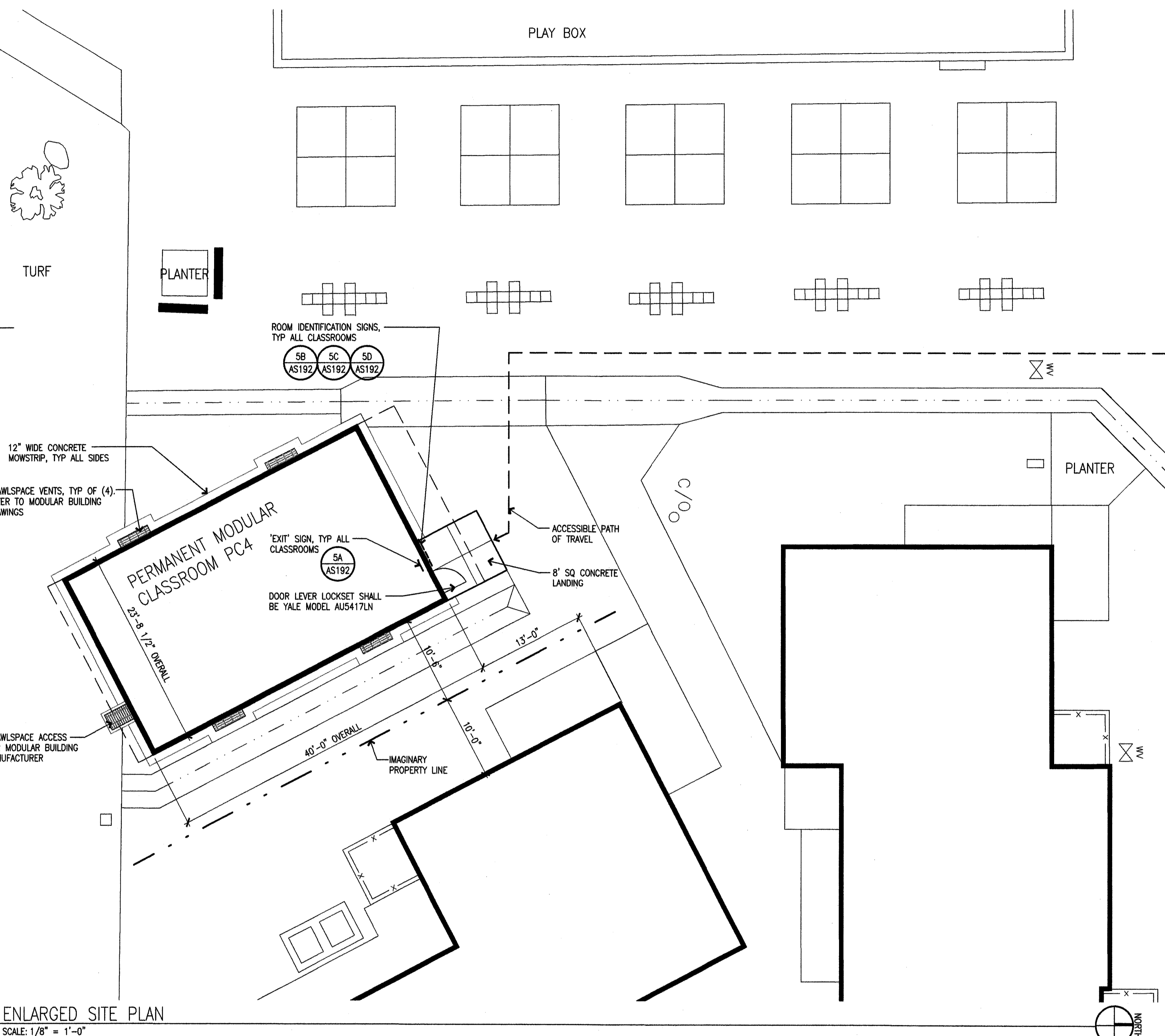
NOTES: SIGN ANCHORAGE: SIGN SHALL BE MECHANICALLY FASTENED W/ (4) FLATHEAD, STAINLESS STEEL, TAMPER PROOF SCREWS (COUNTERSUNK) AND ADHESIVE. LETTERS AND NUMBERS: REF. CBC 1117B.5.3 1) WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1. 2) STROKE WIDTH TO HEIGHT BETWEEN 1:5 AND 1:10. 3) CONTRAST CHARACTERS AND SYMBOLS WITH BACKGROUND SHALL BE DISTINCTLY DIFFERENT FROM DOOR. 4) SANS SERIF UPPERCASE CHARACTERS, EXCEPT WHERE NOTED. 5) RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". 6) RAISED 1/32". BRAILLE SYMBOLS: REF. CBC 1117B.5.6 CALIFORNIA CONTRACTED GRADE 2 BRAILLE 1) USE CONTRASTED GRADE 2 BRAILLE 2) DOT DIAMETER: .059 INCHES 3) INTER- DOT SPACING: .100 INCHES 4) HORIZONTAL SEPARATION BETWEEN CELLS: .200 INCHES 5) VERTICAL SEPARATION BETWEEN CELLS: .395 INCHES 6) MIN. DOT HEIGHT ABOVE BACKGROUND: .025 INCHES



5 IDENTIFYING DEVICES FOR PERMANENT ROOMS AND SPACES SCALE: N.T.S.



7 DRINKING FOUNTAIN - PLAN SCALE: 1/2" = 1'-0"



9 DRINKING FOUNTAIN - SECTION SCALE: 1/2" = 1'-0"



American Modular Systems Inc.

24' x 40' RELOCATABLE BUILDINGS
BAKERSFIELD CITY SCHOOL DISTRICT
(McKINLEY ELEMENTARY SCHOOL)

EXPOSED STEEL-2:12 PITCHED ROOF

MODULAR STEEL MOMENT FRAME TEST & INSPECTION GUIDELINE

A SEPARATE TEST AND INSPECTION LIST IS TO BE SUBMITTED AS PART OF THE APPROVAL PROCESS. THIS GUIDE DOES NOT REPLACE THE TEST AND INSPECTION LIST

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT

Table with columns: TESTS and INSPECTIONS, STOCKPILE, CONSTRUCTION OF (diaphragm material-foundation material), RELOCATION OF CERTIFIED BUILDING. Rows include: COMPACTED FILL, CONCRETE, REINFORCING STEEL, STRUCTURAL STEEL, GROUNDING, SHOT PINS, EXPANSION ANCHORS, EPOXY ANCHORS, INSPECTOR CLASS, SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY, COST OF THE PROJECT INSPECTION, COPIES OF THE REPORT TO.

BUILDING DATA

Table with columns: OCCUPANCY, TYPE OF CONSTRUCTION, WIND LOAD, FLOOR LIVE LOAD, ROOF LIVE LOAD, FIRE SPRINKLER SYSTEM WEIGHT (PSF), ALLOWABLE SOIL PRESSURE (PSF), FLOOD HAZARD AREA, BUILDING AREA, CLIMATE ZONES, MODULES, SYSTEM, FOUNDATION TYPE, SEISMIC.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2008. 2007 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2007 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2006 INTERNATIONAL BUILDING CODE VOLUMES 1-3 AND 2007 CALIFORNIA AMENDMENTS) 2007 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2005 NATIONAL ELECTRICAL CODE AND 2007 CALIFORNIA AMENDMENTS) 2007 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2006 UNIFORM MECHANICAL CODE AND 2007 CALIFORNIA AMENDMENTS) 2007 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2006 UNIFORM PLUMBING CODE AND 2007 CALIFORNIA AMENDMENTS) 2008 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. 2004 SAFETY CODE FOR ELEVATORS AND ESCALATORS (ASME A17.1-2004) 2007 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2006 INTERNATIONAL FIRE CODE AND 2007 CALIFORNIA AMENDMENTS) 2007 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R. (2006 INTERNATIONAL EXISTING BUILDING CODE AND 2007 CALIFORNIA AMENDMENTS) 2007 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R. (PENDING ADOPTION) 2007 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS. PARTIAL LIST OF APPLICABLE STANDARDS: NFPA 13, NFPA 14, NFPA 17, NFPA 17a, NFPA 20, NFPA 24, NFPA 72, NFPA 253, NFPA 2001, ASME 17.1. Reference code sections for applicable Standards - 2007 CBC Chapter 35 and 2007 CFC Chapter 45.

GENERAL NOTES

- 1. PC BUILDING CLASSIFIED AS OCCUPANCY "A" WITH OCCUPANT LOAD 100 OR MORE CAN NOT BE REVIEWED OVER THE COUNTER (OTC).
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY E OR B, OR A CATEGORY I & II WITH OCCUPANT LOAD LESS THAN 300.
3. PC BUILDING EXISTING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A. (NOT APPLICABLE - THIS PROJECT)
5. SITE USE SPECIFIC REQUIREMENT FOR AUTOMATIC SPRINKLER SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL (NOT REQUIRED - THIS PROJECT)

DRAWING INDEX

- TS COVER SHEET
A1 TYPICAL FLOOR PLAN
A3 TYPICAL INTERIOR ELEVATIONS
A5 TYPICAL EXTERIOR ELEVATIONS (SYNTHETIC STUCCO)
ASA ARCHITECTURAL DETAILS (SYNTHETIC STUCCO OPTION)
AD ACCESSIBLE DETAILS
N1 GENERAL NOTES
N2 GENERAL NOTES
P1 ISOMETRIC PLANS & DETAILS
M1 TYPICAL REFLECTED CEILING PLAN
M2 MECHANICAL BUILDING SECTION & CEILING DETAILS
M3 CEILING & MECHANICAL NOTES
E1 TYPICAL ELECTRICAL PLAN
E2 ELECTRICAL NOTES & DETAILS
S1 CONCRETE FOUNDATION PLAN 50 P.S.F & 50 P.S.F LIVE LOAD+15 P.S.F PART. LOAD FLOOR (PLYWOOD OR VIROC FLOOR SYSTEM)
S1C CONCRETE FOOTING DETAILS
S1D CONCRETE FOOTING DETAILS
S2 FLOOR FRAMING PLAN & DETAILS (PLYWOOD)
S3 ROOF FRAMING PLAN & DETAILS (OPEN SOFFIT)
S3.1 ROOF FRAMING PLAN & DETAILS (OPEN SOFFIT)
S3A ROOF FRAMING PLAN & DETAILS (ENCLOSED SOFFIT)
S4 TYPICAL FRAME ELEVATIONS
S5 WALL FRAMING
S5A WALL FRAMING DETAILS
S7 BUILDING SECTIONS

ITEMS IN RED FONT COLOR ARE USER NOTES AND INDICATE ITEMS THAT NEED TO BE VERIFIED FOR EACH SPECIFIC PC. THE NOTES IN RED ABOVE AND BELOW ARE TO BE REMOVED PRIOR TO PLACING THE GUIDELINE ON THE DRAWINGS

- Note 1: Verify that either Condition a or b are met:
a) Concrete Plant complies fully with ASTM C94, Section 8 and 9, and has a current certification indicating the plant has automatic batching and recording capabilities from the National Ready Mixed Concrete Association
b) Comprehensive strength: 3500 psi Specified - 2500 psi Design
Requirements c thru f are met.
c) Inspector to check first batching at start of work and furnish mix proportions to licensed weighmaster
d) Licensed Weighmaster to positively identify materials as to quantity and certify each load by a ticket
e) Tickets transmitted to Inspector of Record
f) Submit Weighmaster Affidavit
Note 2: Air Content Test as required based on site location (for cold weather conditions)
Note 3: Required where the details of the PC specify a Welding
Note 4: Required where the details of the PC specify the use of this type of anchor

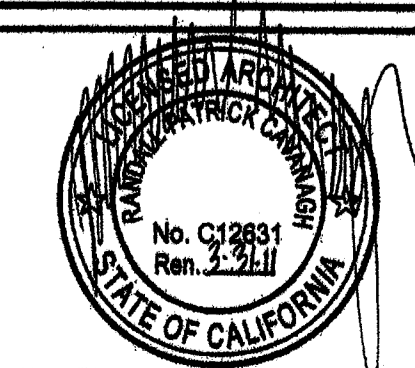
Table with columns: NO, DATE, DESCRIPTION. Includes revision history.

DATE: 08/05/10
SCALE: NOTED
DRAWN BY: RB
SERIAL NO.:

CUSTOMER: BAKERSFIELD CITY SCHOOL DISTRICT
McKINLEY SCHOOL
2:12 PITCHED ROOF 24' x 40' RELOCATABLE BUILDINGS
COVER SHEET



APPROVALS:

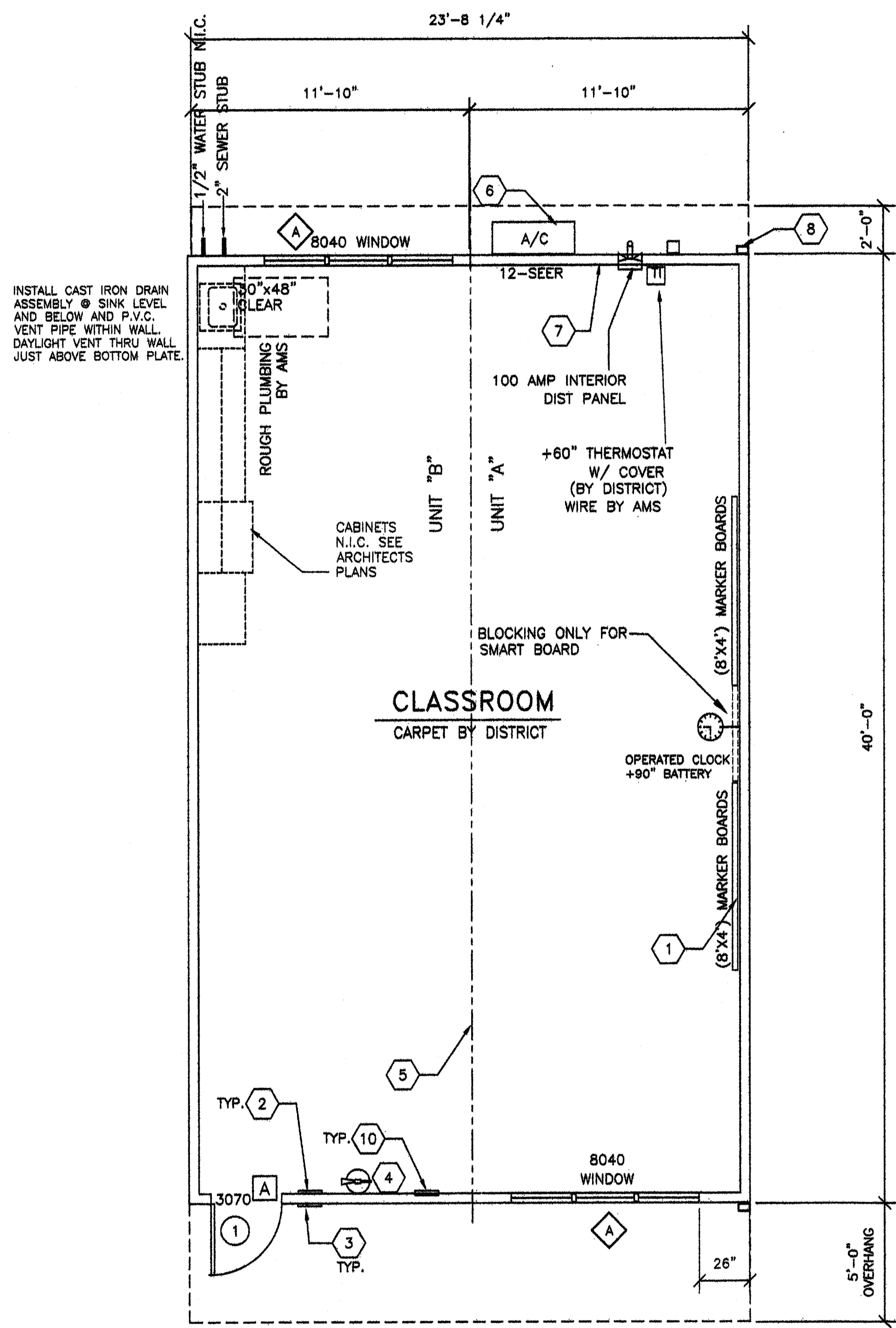


BASED ON PC 02-109695

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
AC: [Signature] SS GR
DATE: [Signature]

PROJECT No.
T-S

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INSTALL CAST IRON DRAIN ASSEMBLY @ SINK LEVEL AND BELOW AND P.V.C. VENT PIPE WITHIN WALL. DAYLIGHT VENT THRU WALL JUST ABOVE BOTTOM PLATE.

2 TYPICAL FLOOR PLAN
A1 1/4"=1'-0"

- SHEET NOTES -**
- 1 (1) 8'x4' MARKER BOARDS
 - 2 EXIT TACTILE SIGN PER DETAIL 10/AD (BY OWNER)
 - 3 CLASSROOM ID & ISA PER DETAIL PER DETAIL 5 & 9/AD
 - 4 FIRE EXTINGUISHER TOP OF BRACKET @ +48" A.F.F.
 - 5 TYP MOD LINE
 - 6 HVAC UNIT (LOCATION MAY VARY)
 - 7 ELECTRICAL PANEL (LOCATION MAY VARY)
 - 8 DOWNSPOUT (QUANTITY & LOCATION MAY VARY)
 - 9 CARPET
 - 10 FLOOR LIVE LOAD SIGN PER 1603A.3 2007 CBC

- GENERAL NOTES -**
1. NOT USED
 2. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING REFER TO SHEET S5A FOR ATTACHMENTS.
 3. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER CBC 1008.1.9
 4. IF OCCUPANCY LOAD EXCEEDS 50 PROVIDE A SECOND EXIT DOOR PER CBC TABLE 1015.1
 5. PROVIDE OCCUPANT LOAD SIGN (BY OWNER) CAPACITY POSTING PER 2007 CBC SECTION 1603A3 TITLE 19 C.C.R. SECTION 3.3.0. THIS ROOM SHALL BE POST WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM.

- BUILDING SIZE SCHEDULE -

BUILDING	40'-0" MODULES	OVERALL SIZE
24' x 40'	2	23'-8 1/4"
36' x 40'	3	35'-6 1/2"
48' x 40'	4	47'-4 3/4"
60' x 40'	5	59'-3"
72' x 40'	6	71'-1 1/4"
84' x 40'	7	82'-11 1/2"
96' x 40'	8	94'-9 3/4"
108' x 40'	9	106'-8"
120' x 40'	10	118'-6 1/4"

SYMBOL SCHEDULE

#	DOOR (REFER TO SHEET A3 FOR TYPES)
X	DOOR HARDWARE TYPE REFER TO DOOR HARDWARE SCHEDULE
◇	WINDOW (REFER TO SHEET A3 FOR TYPES)

DOOR HARDWARE SCHEDULE

A	EXTERIOR DOOR LOCKSET W/ LEVER RHODES SCHLAGE D70PD (LOCKSET BY DISTRICT)
B	EXTERIOR DOOR PANIC BAR W/ PULL ON EXTERIOR VON DUPRIN 22Lx230NL (WHEN REQUIRED)

Exterior Door
 A) Hinges: Hager 4-1/2x4-1/2 butts, BB1279 US260, 1-1/2 pair each door with set screw in barrel and ball bearing design
 C) Closer: Norton 8500DA or 8500BF series, LCN 1460 Del series or equal. (5 lbs. max. pressure) (15 lbs. max at fire doors).
 D) Weatherstripping: All exterior doors shall be weatherstripped with Pemko 299D, Ultra WS007, at door jams and head or equal.
 E) Threshold: Threshold shall be Pemko 271 AV 5" aluminum with Pemko 216 AV Ultra TH042 door bottom.

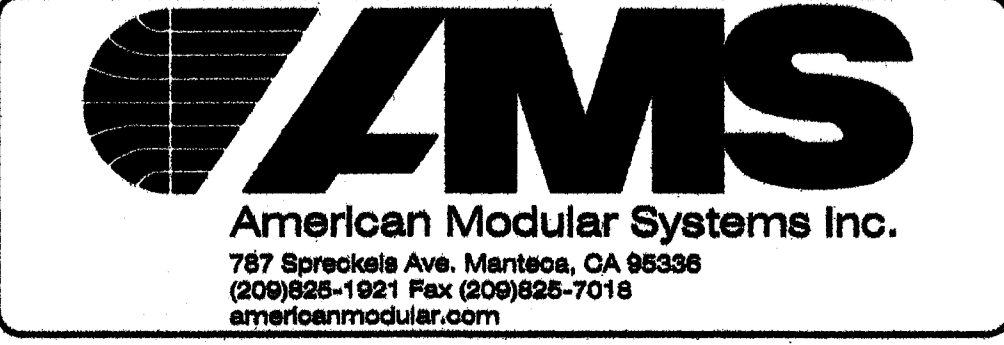
REVISIONS

NO	DATE	DESCRIPTION

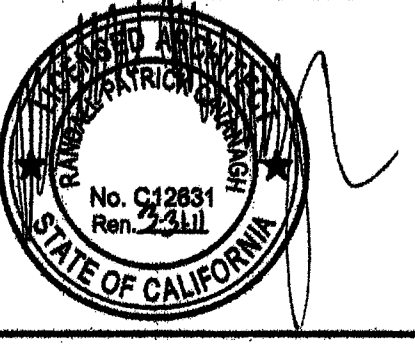
DATE: 08/06/10
 SCALE: NOTED
 DRAWN BY: RS/MP
 SERIAL NO.:

CUSTOMER: BAKERSFIELD UNIFIED SCHOOL DISTRICT
 MCKINLEY SCHOOL

2:12 PITCHED ROOF 24' x 40' RELOCATABLE BUILDINGS
 TYPICAL FLOOR PLAN



APPROVALS:

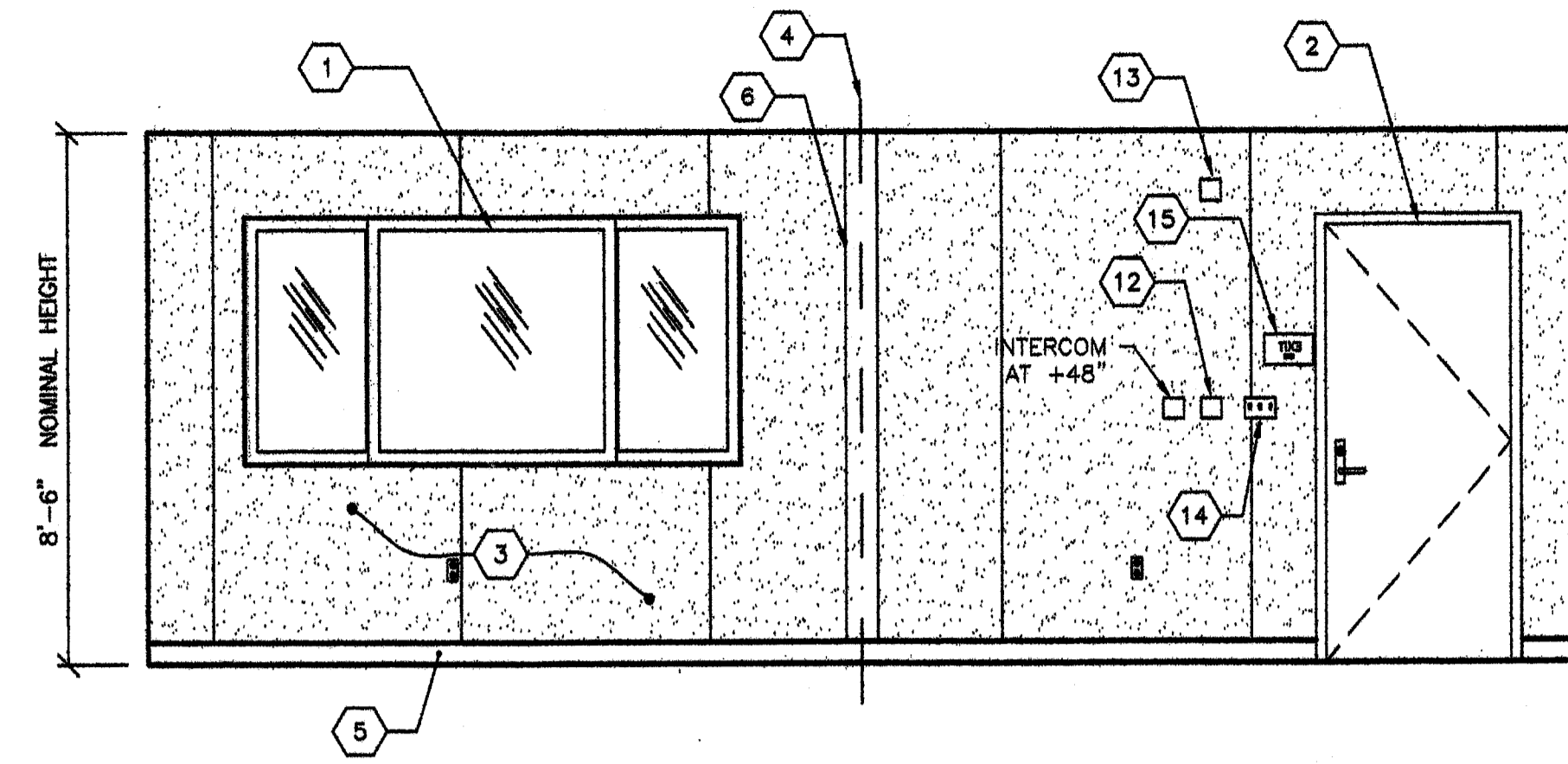


IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES

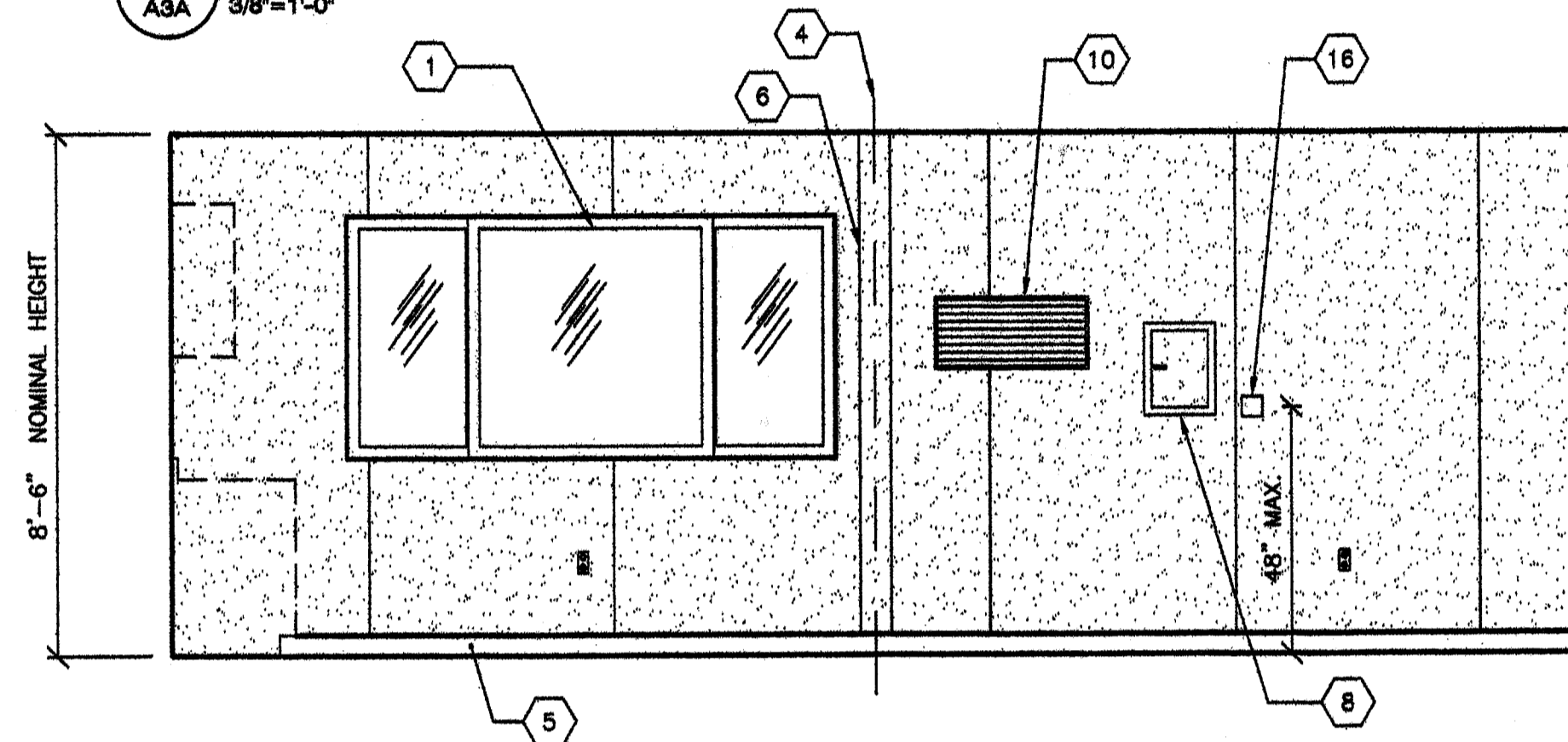
02-111612
 AC 101 PLS 10/15/10
 DATE 11/2/11

PROJECT NO.
A1

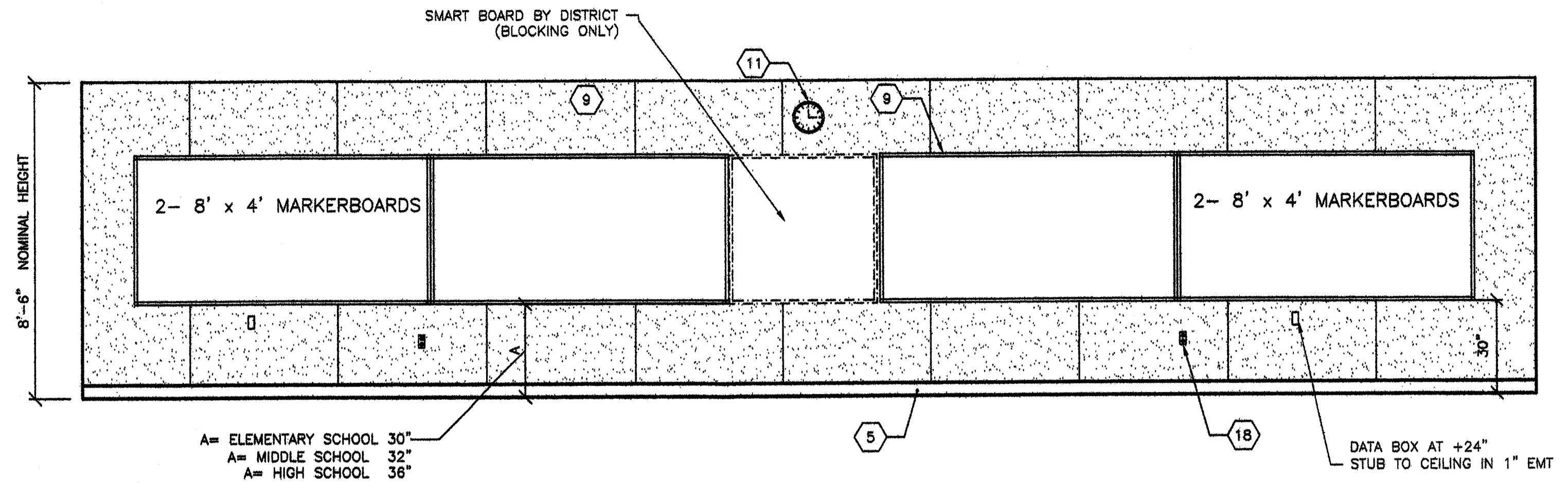
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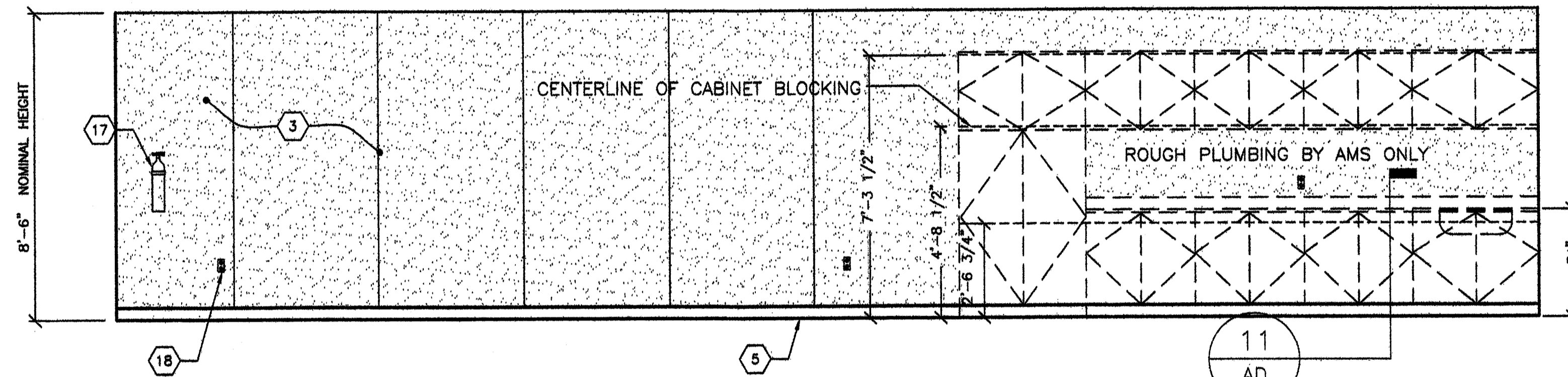
1 TYPICAL CLASSROOM FRONT END WALL ELEVATION
A3A 3/8"=1'-0"



3 TYPICAL CLASSROOM REAR END WALL ELEVATION
A3A 3/8"=1'-0"



2 TYPICAL CLASSROOM SIDE WALL ELEVATION
A3A 3/8"=1'-0"



4 TYPICAL CLASSROOM SIDE WALL ELEVATION
A3A 3/8"=1'-0"

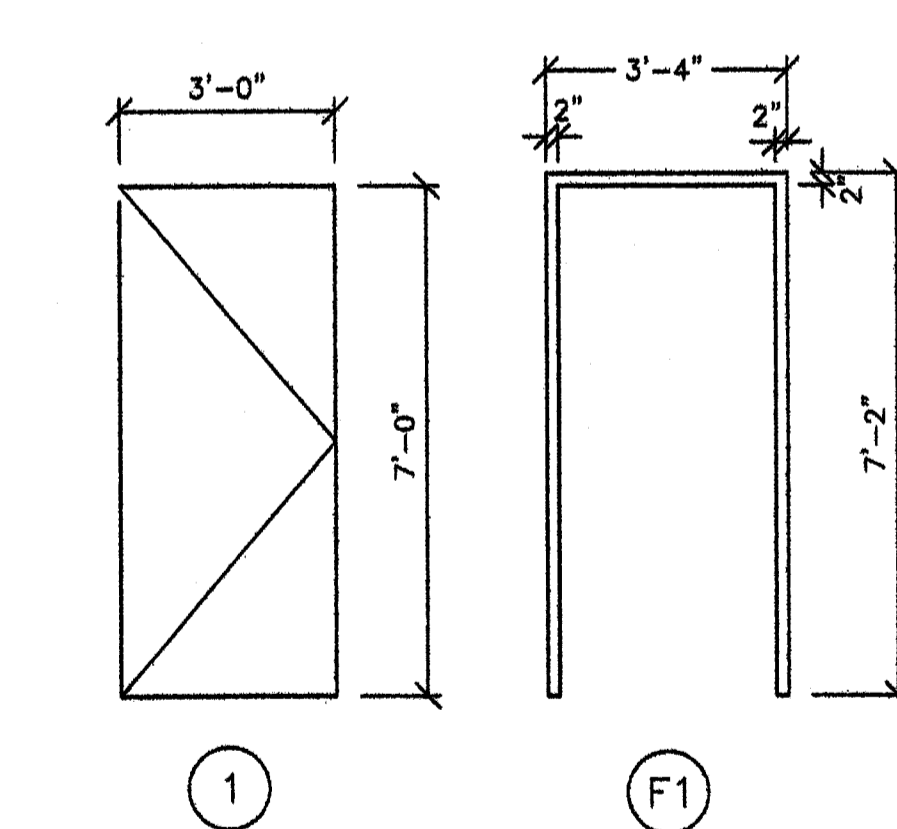
ROOM FINISHES SCHEDULE									
ROOM NUMBER	ROOM NAME	FLOOR	FINISHES					REMARKS	
			BASE	FRONT	REAR	RIGHT	LEFT		
#	CLASSROOM	A	D	F	F	F	J	8'-6"	

DOOR SCHEDULE										
DOOR NO.	FRAME	OPENING SIZE	MATERIAL	DOOR TYPE	FIRE RATING	HARDWARE SET NO.	QUANTITY	FRAMES		REMARKS
								MATERIAL	HEAD DETAIL	
1	HM	3'-0" x 7'-0"	HM	F1	A	1	STL	9/A5A	4/A5A	F1

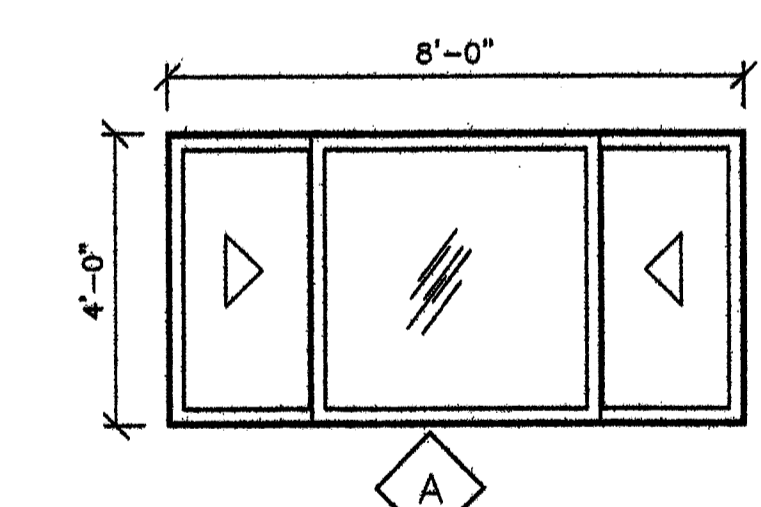
- A - CARPET PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN.
- B - VINYL SHEET FLOORING
- C - VCT, ARMSTRONG STANDARD OR EXCELON
- D - TOP SET BASE, 4" BURKE
- E - TOP SET BASE, 6" BRINGANTINE OR SANDOVAL
- F - WALL FINISH, 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
- G - 1/2" W.R. GYP BOARD, TAPE, TEXTURE, PAINTED FINISH
- H - 1/2" GYP BOARD, TAPE, TEXTURE, PAINTED FINISH
- I - 3/32" F.R.P. OVER 1/2" W.R. GYP BOARD
- J - ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)
- K - 1/2" VINYL TACKBOARD CLASS 1 OVER 5/8" TYPE "X" GYP BOARD BACKING
- L - 5/8" TYPE "X" GYP BOARD, TAPE, TEXTURE, PAINTED FINISH

WINDOW SCHEDULE								
WINDOW NO.	AMT.	TYPE	WIDTH	HEIGHT	FINISH	GLASS TYPE	U-FACTOR	SHGC
1	2	SLIDER	8'-0"	4'-0"	BRONZE	SOLAR GRAY	0.780	0.430

EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.



5 DOOR AND DOOR FRAME TYPES
A3 3/8"=1'-0"



6 WINDOW TYPES
A3 3/8"=1'-0"

- KEY NOTES -**
- 1 WINDOW TYP.
 - 2 TYP EXTERIOR DOOR
 - 3 VINYL WRAPPED TACKABLE WALLS
 - 4 TYP MOD LINE
 - 5 TOP SET BASE
 - 6 TRIM PIECE (FIELD INSTALL)
 - 7 NOT USED
 - 8 ELECTRICAL PANEL
 - 9 (2) 4'x4' MARKER BOARDS
 - 10 HVAC GRILL
 - 11 CLOCK
 - 12 PULL STATION J-BOX 48" A.F.F SEE ELECTRICAL SHEETS
 - 13 HORN/STROBE J-BOX SEE ELECTRICAL SHEETS
 - 14 LIGHT SWITCH SEE ELECTRICAL SHEETS
 - 15 EXIT TACTILE SIGN PER DETAIL 10/AD (BY OWNER)
 - 16 THERMOSTAT 48" A.F.F SEE MECHANICAL SHEETS
 - 17 FIRE EXTINGUISHER TOP OF BRACKET @ +48" AFF PROTRUSION MAX 4" FROM WALL. IF FIRE EXTINGUISHER IS ABOVE 27" A.F.F
 - 18 TYP DUPLEX OUTLET (SEE ELECTRICAL SHEETS) SPACED @ 12" o.c MIN. PER C.E.C

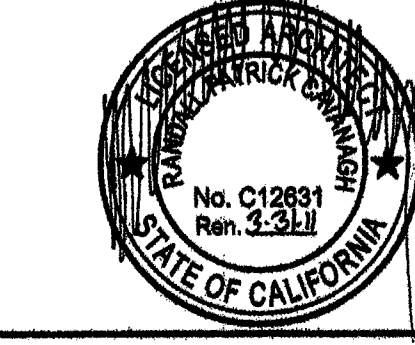
BASED ON PC# 02-109895

REVISIONS		
NO	DATE	DESCRIPTION

DATE: 08/08/10
SCALE: NOTED
DRAWN BY: RS/MP
SERIAL NO.:

CUSTOMER: BAKERSFIELD CITY SCHOOLS
MCKINLEY SCHOOL
2:12 PITCHED ROOF 24' x 40' RELOCATABLE BUILDINGS
TYPICAL INTERIOR ELEVATIONS

APPROVALS:

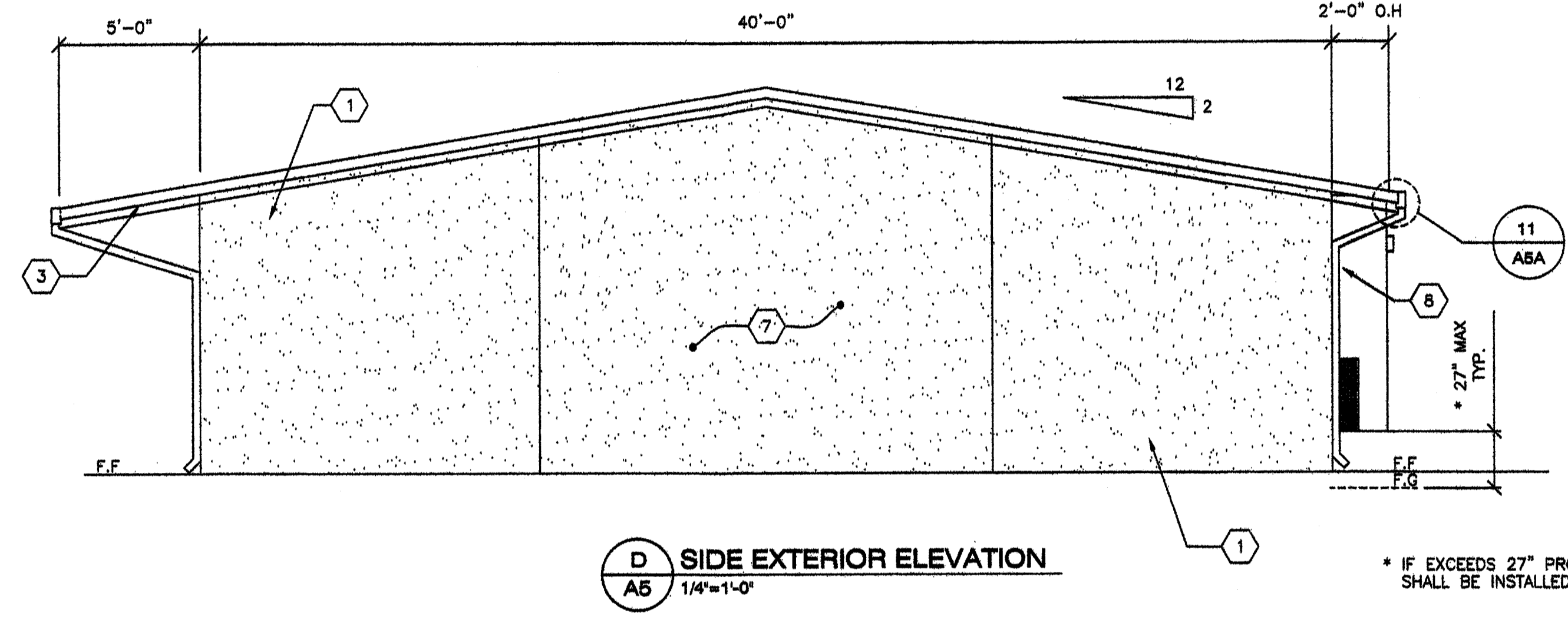
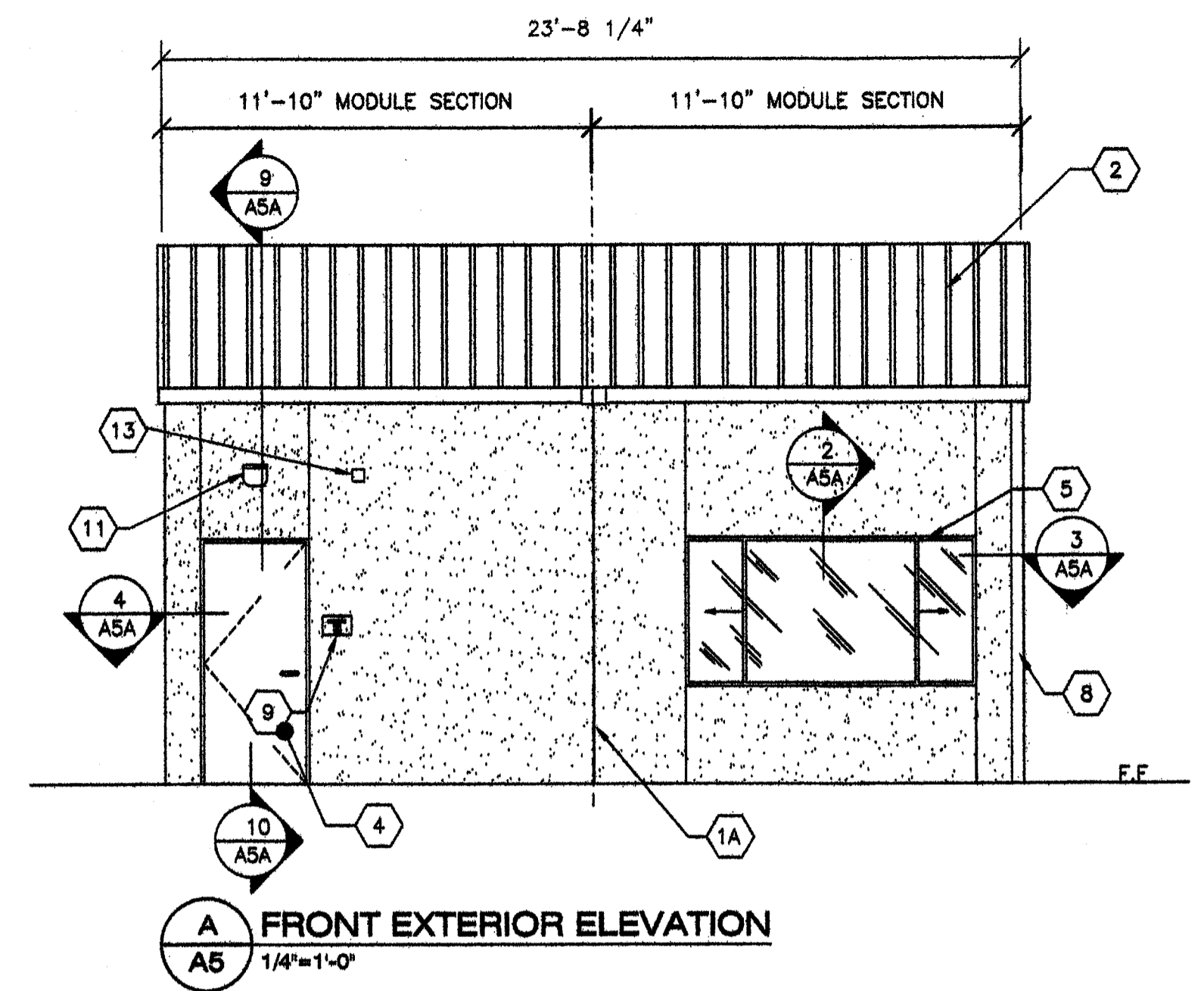


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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
AC, PL, FS, SS, CR
DATE 11/2/11

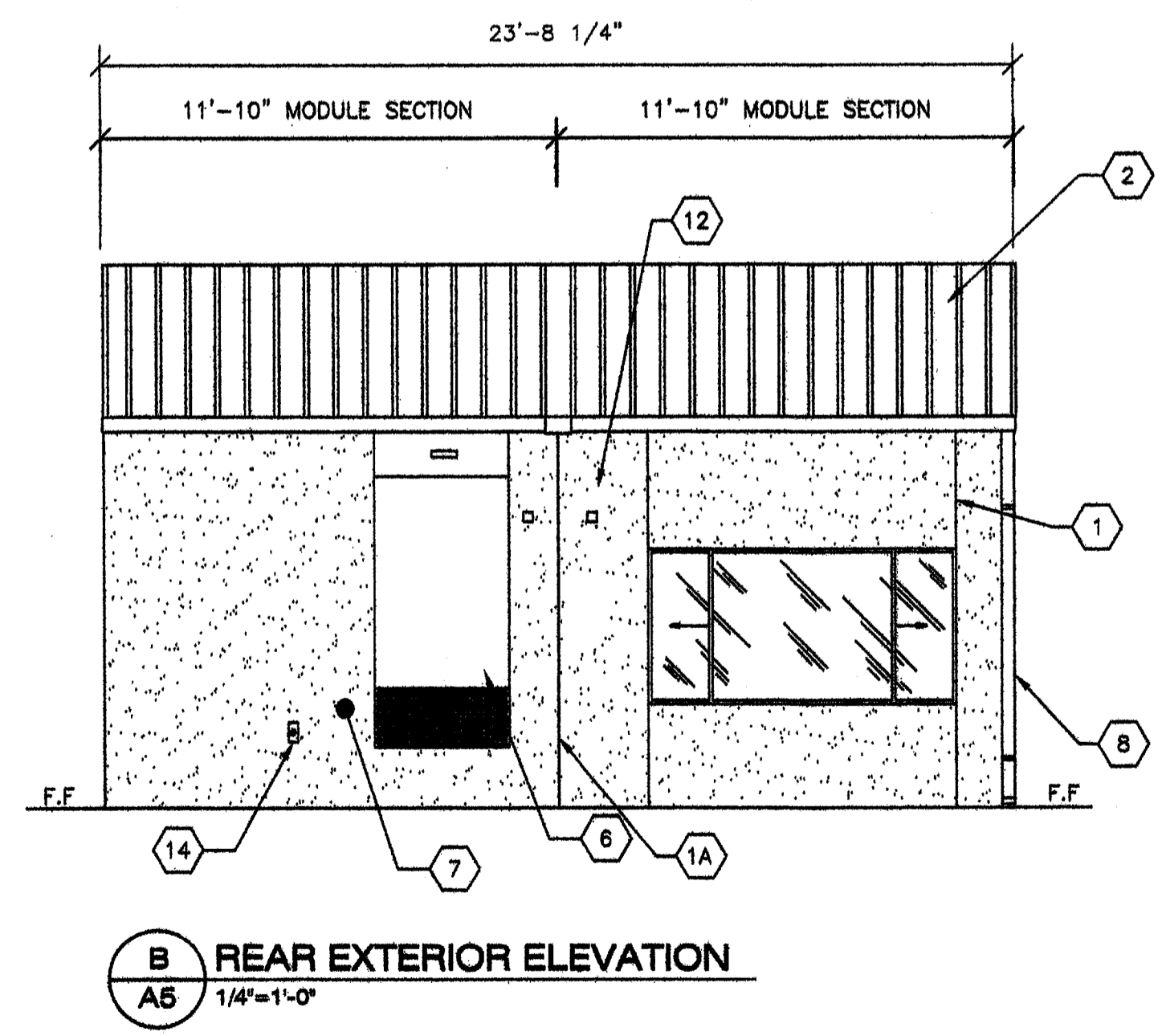
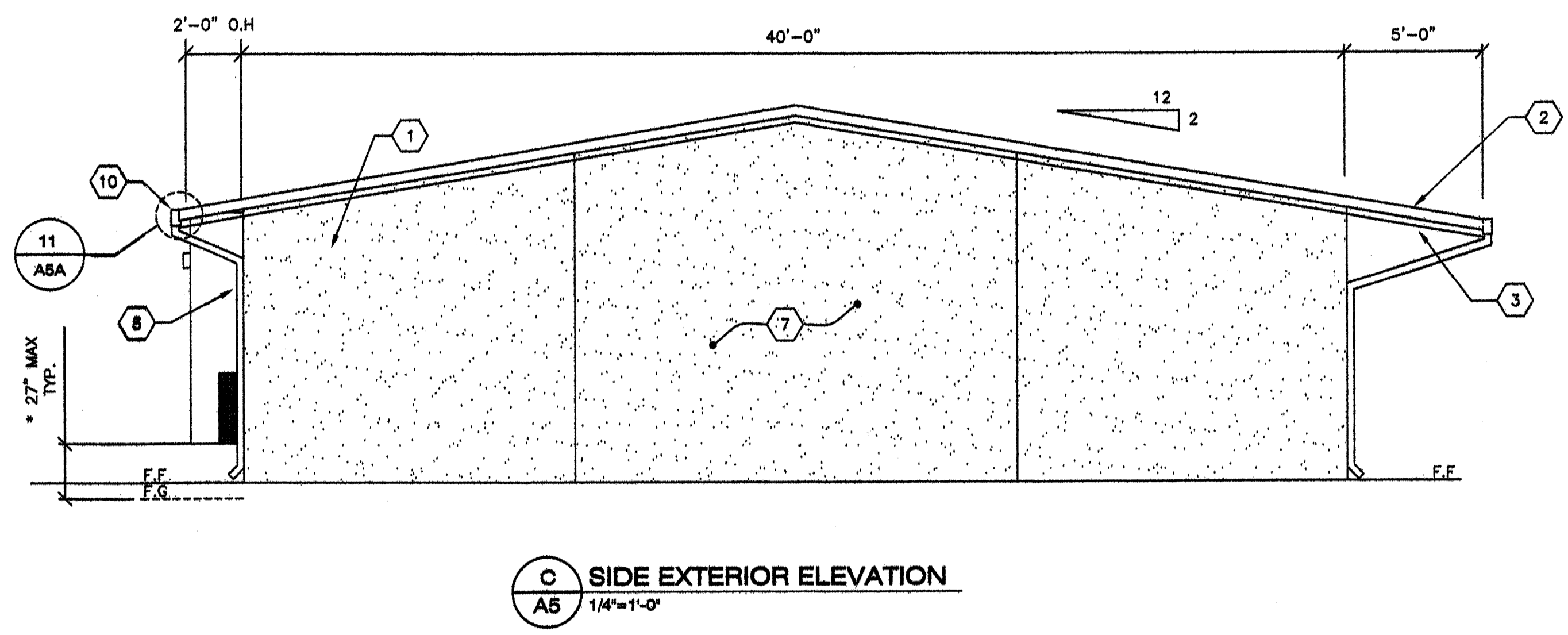
PROJECT No.
A3

- SHEET NOTES -**
- 1 CONTROL JOINT (LOCATIONS MAY VARY)
 - 1A 16 GA. FLASHING TRIM @ MODLINES TYP.
 - 2 STANDING SEAM METAL ROOFING
 - 3 OVERHANG
 - 4 TYPICAL EXTERIOR DOOR
 - 5 WINDOW SEE SPEC'S
 - 6 HVAC UNIT TYP.
 - 7 ACRYLIC TEXTURED FINISH OVER HARD-BOARD
 - 8 DOWNSPOUT (QUANTITY & LOCATION MAY VARY)
 - 9 ROOM ID AND ISA SIGNAGE (BY OWNER) TYP REFER TO DETAILS 5/AD AND 9/AD
 - 10 GUTTER
 - 11 EXTERIOR LIGHT FIXTURE TYP
 - 12 MODULAR IDENTIFICATION TAG, +90° ABOVE F.F.
 - 13 FIRE ALARM HORN (REFER TO E1)
 - 14 WP/G.F.C.I TYP. @ HVAC UNITS SEE ELECTRICAL SHEETS.

FOR RAMP DETAILS REFER TO SHEET S6R



* IF EXCEEDS 27" PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER)



BASED PC 02-109695

REVISIONS		
NO	DATE	DESCRIPTION

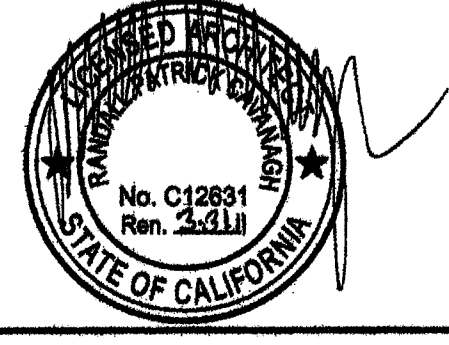
DATE: 08/06/10
 SCALE: NOTED
 DRAWN BY: RS
 SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
 McKinley School

2:12 PITCHED ROOF 24' x 40' RELOCATABLE BUILDINGS
 TYPICAL EXTERIOR ELEVATIONS (SYNTHETIC STUCCO)

AMS
 American Modular Systems Inc.
 787 Spradleys Ave. Manteca, CA 95336
 (209)825-1921 Fax (209)825-7018
 americanmodular.com

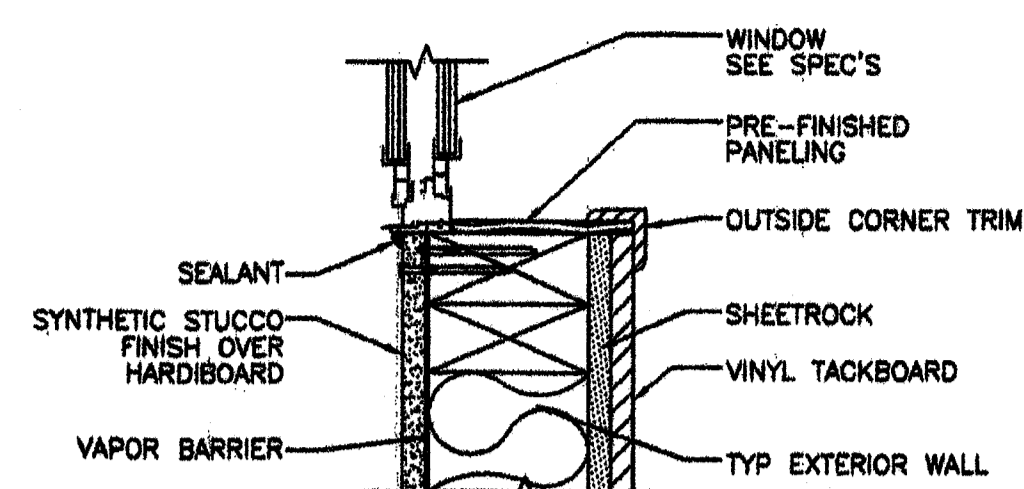
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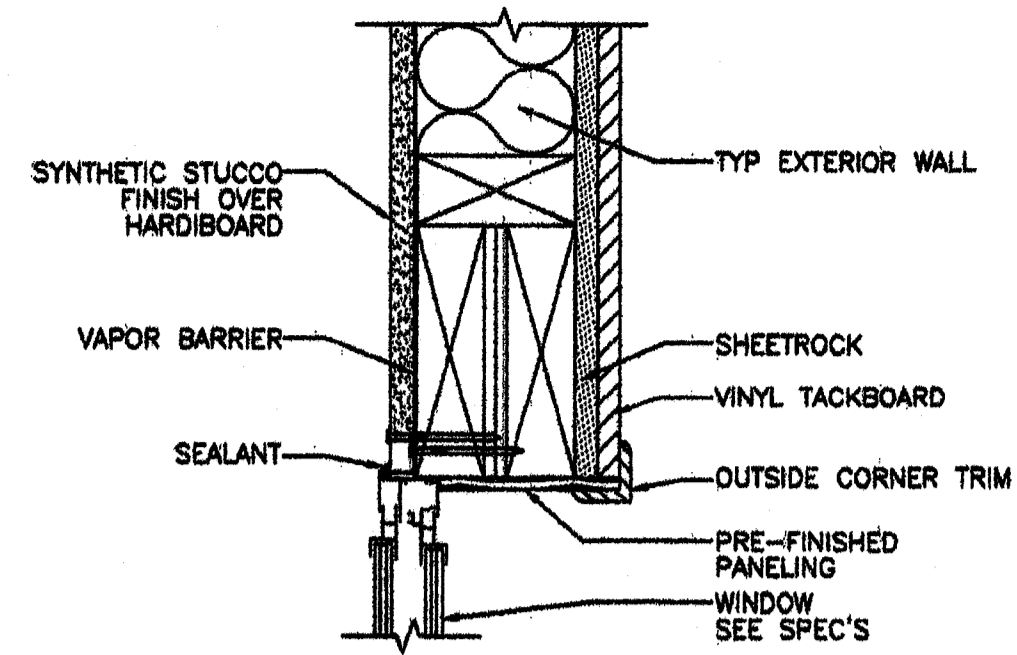
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 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 02-111612
 AC 102 FLS 21 SS GR
 DATE 1/12/11

PROJECT No.
A5

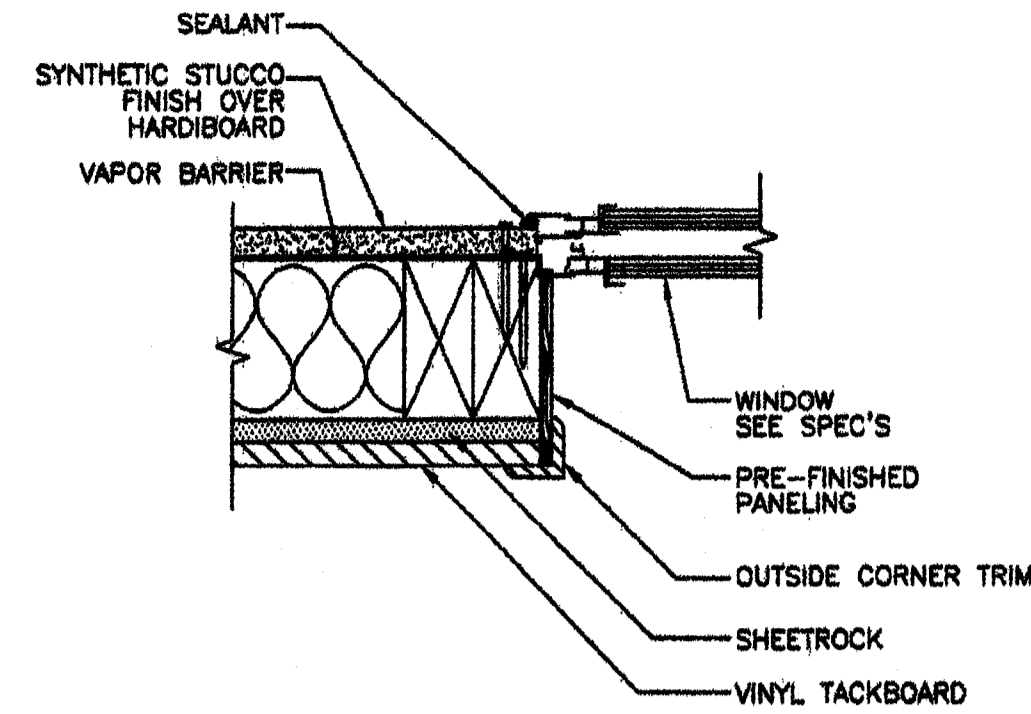
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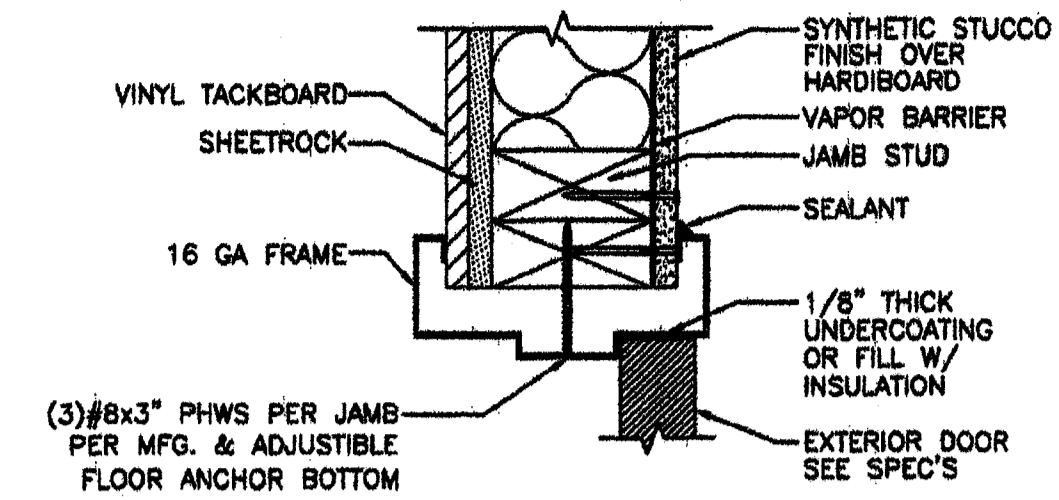
1 TYP WINDOW SILL DETAIL
ABA 3'-1-0"



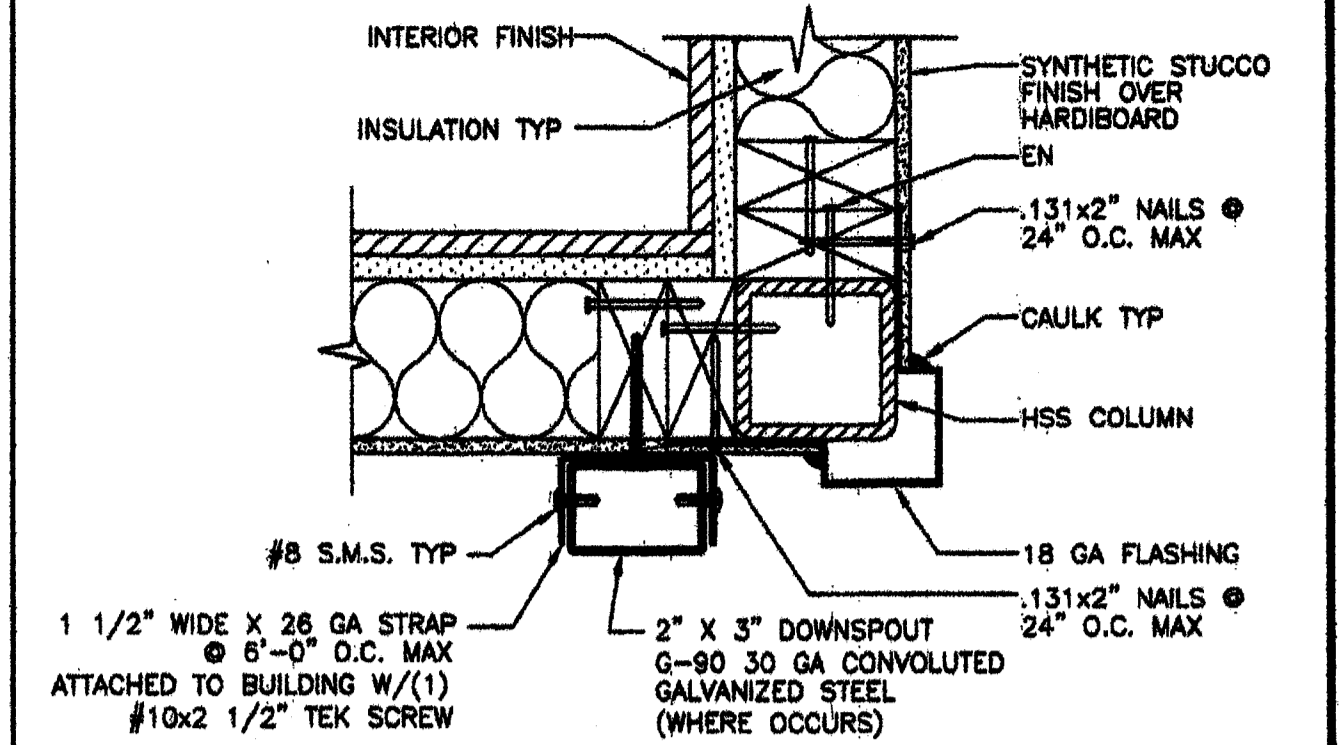
2 TYP WINDOW HEADER DETAIL
ABA 3'-1-0"



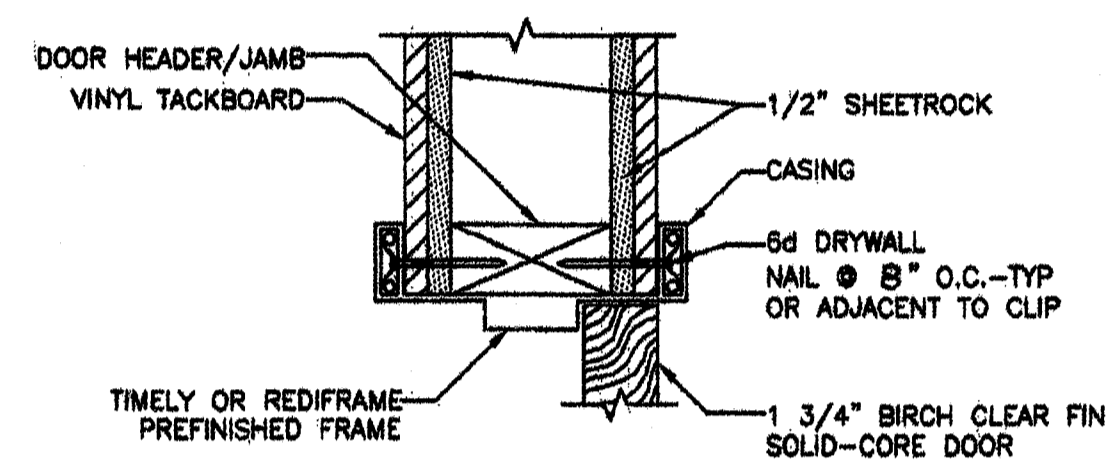
3 TYP WINDOW JAMB DETAIL
ABA 3'-1-0"



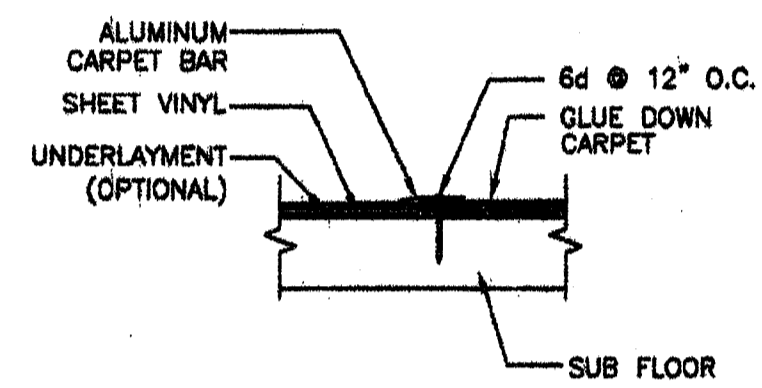
4 TYP DOOR JAMB DETAIL
ABA 3'-1-0"



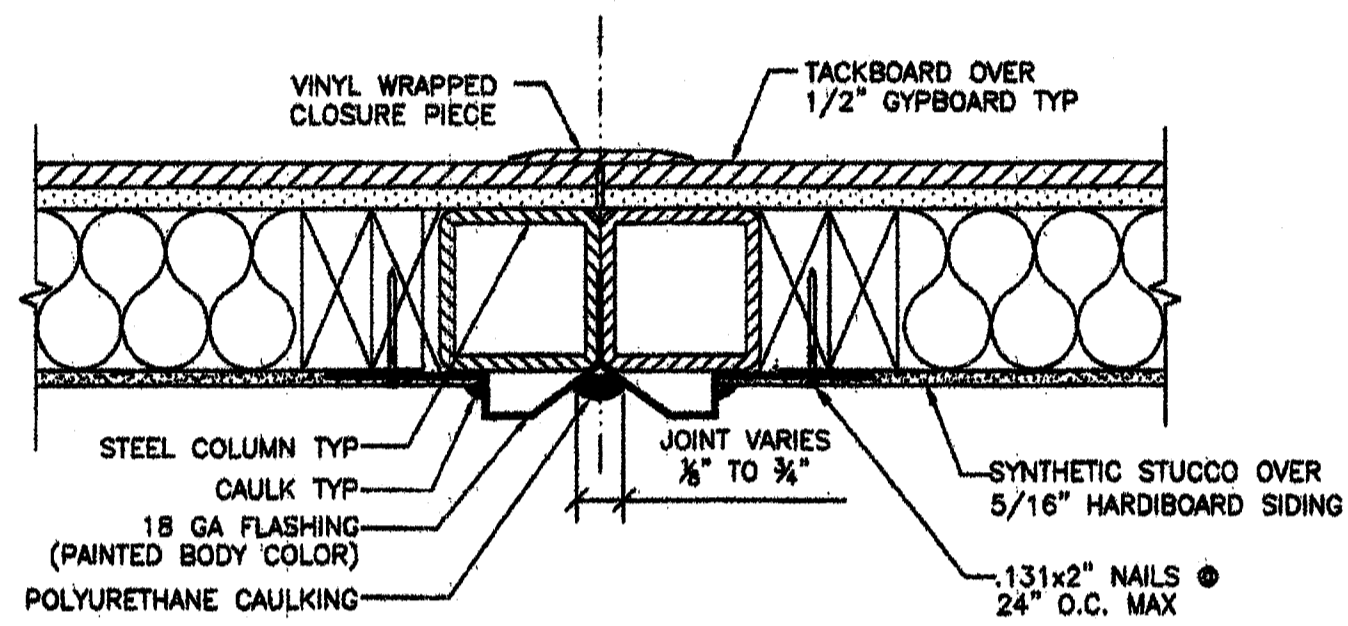
5 DOWNSPOUT ATTACHMENT DETAIL
ABA 3'-1-0"



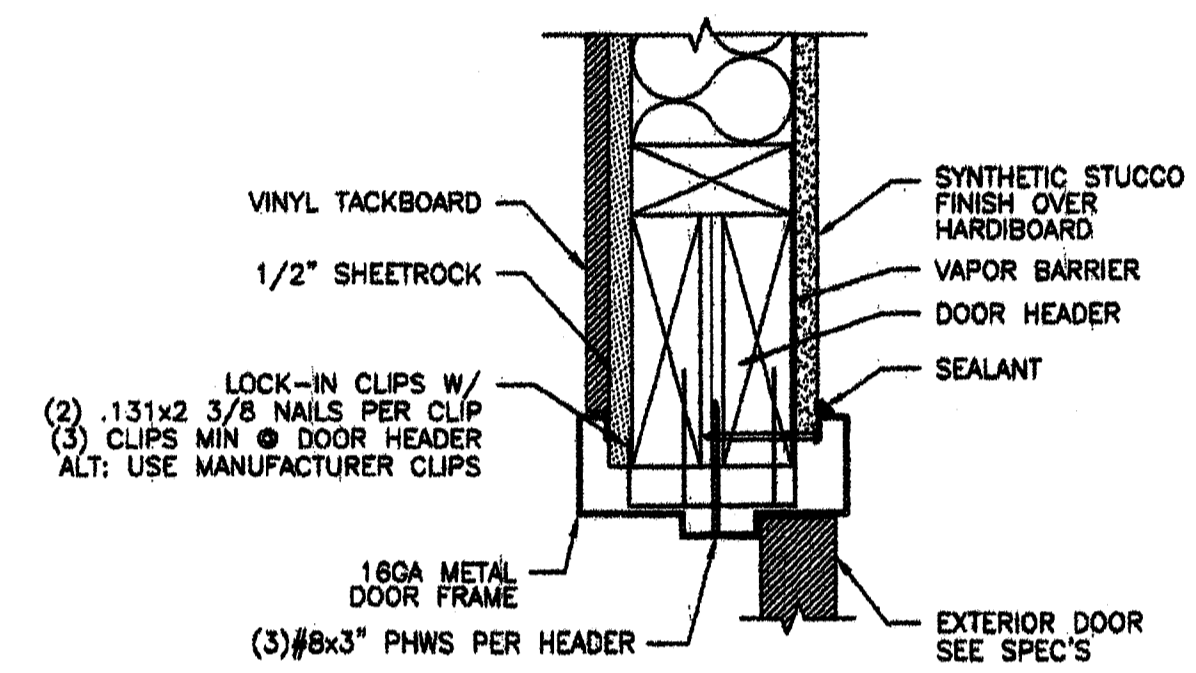
6 TYP INTERIOR DOOR HEADER DETAIL
ABA 3'-1-0"



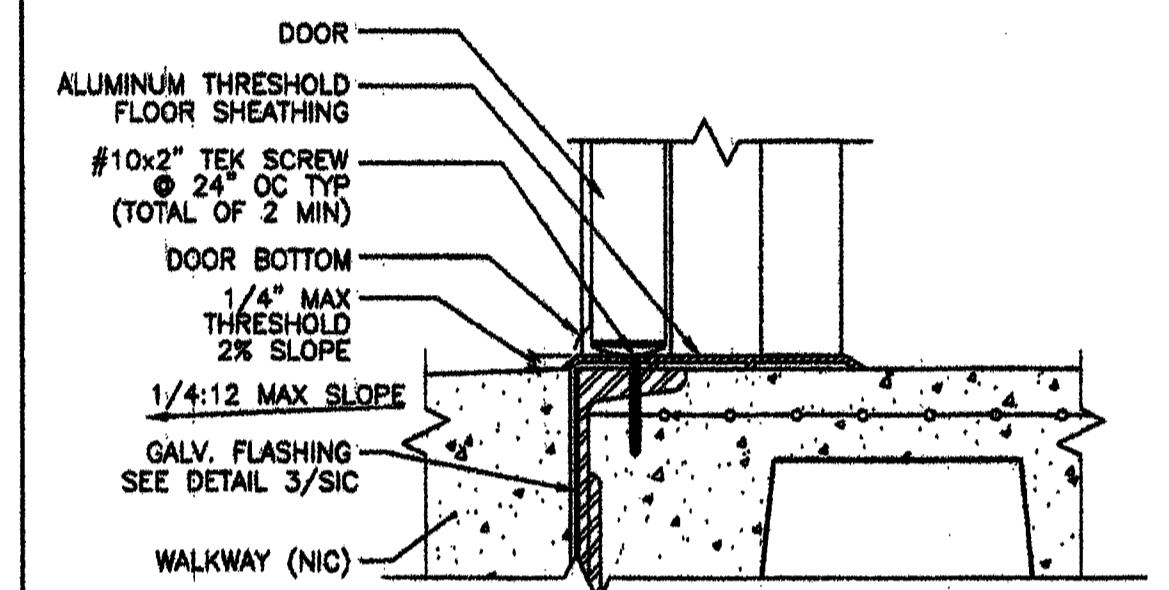
7 FLOORING DETAIL
ABA 3'-1-0"



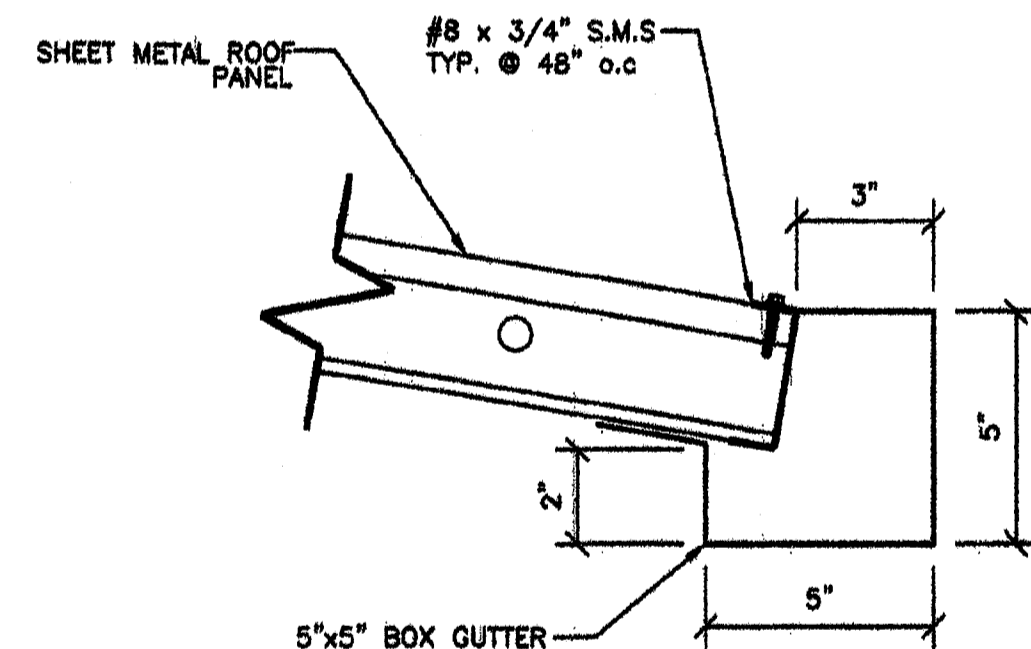
8 TYP MODLINE CLOSURE DETAIL
ABA 3'-1-0"



9 TYP DOOR HEADER DETAIL
ABA 3'-1-0"



10 THRESHOLD DETAIL
ABA 1 1/2'-1-0"



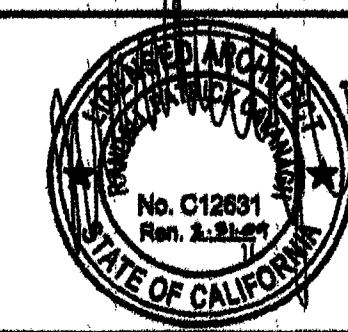
11 TYP GUTTER ATTACHMENT DETAIL
ABA 3'-1-0"

REVISIONS		
NO	DATE	DESCRIPTION

DATE: 2/8/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE CLASSROOMS
ARCHITECTURAL DETAILS (SYNTHETIC STUCCO OPTION)

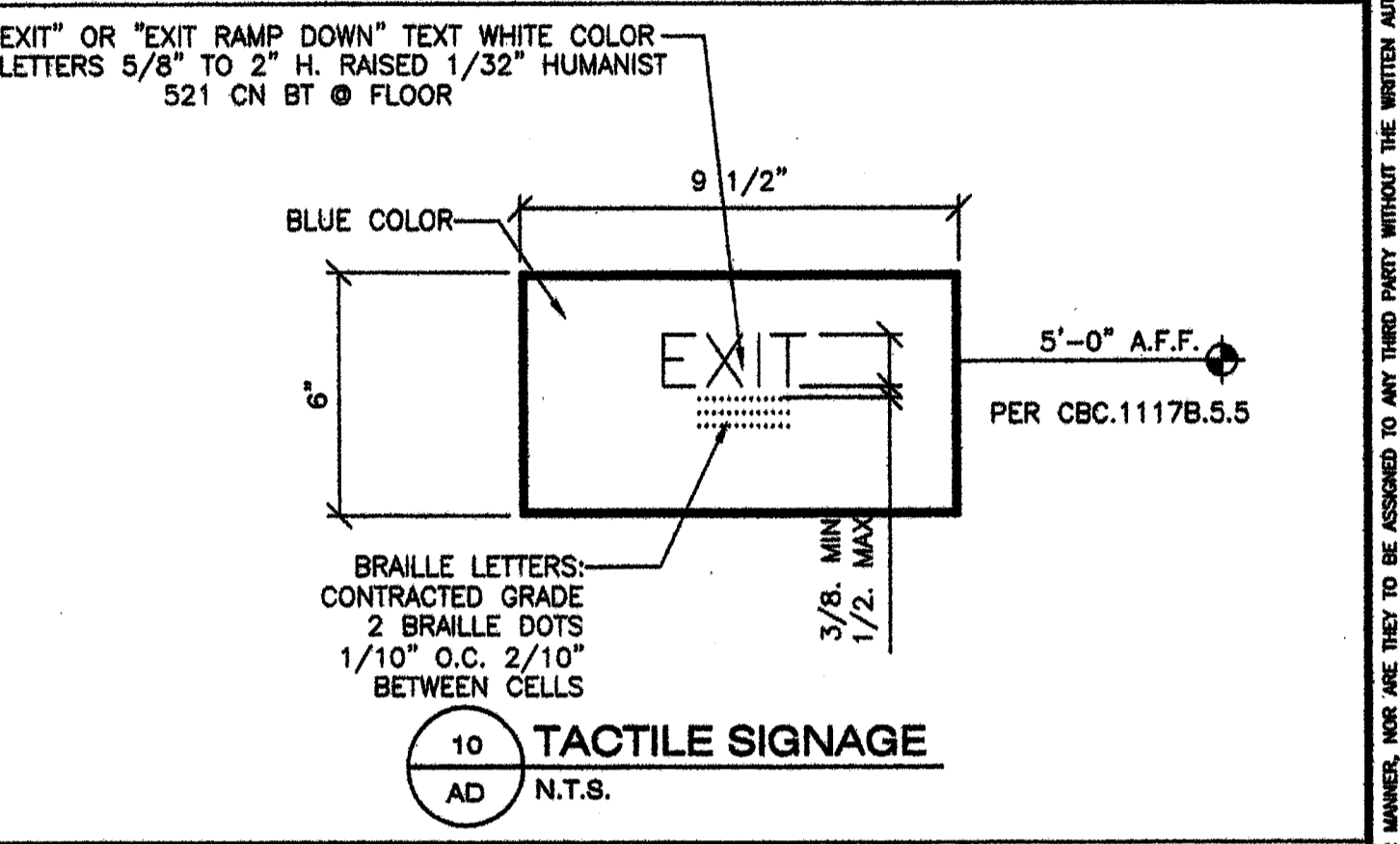
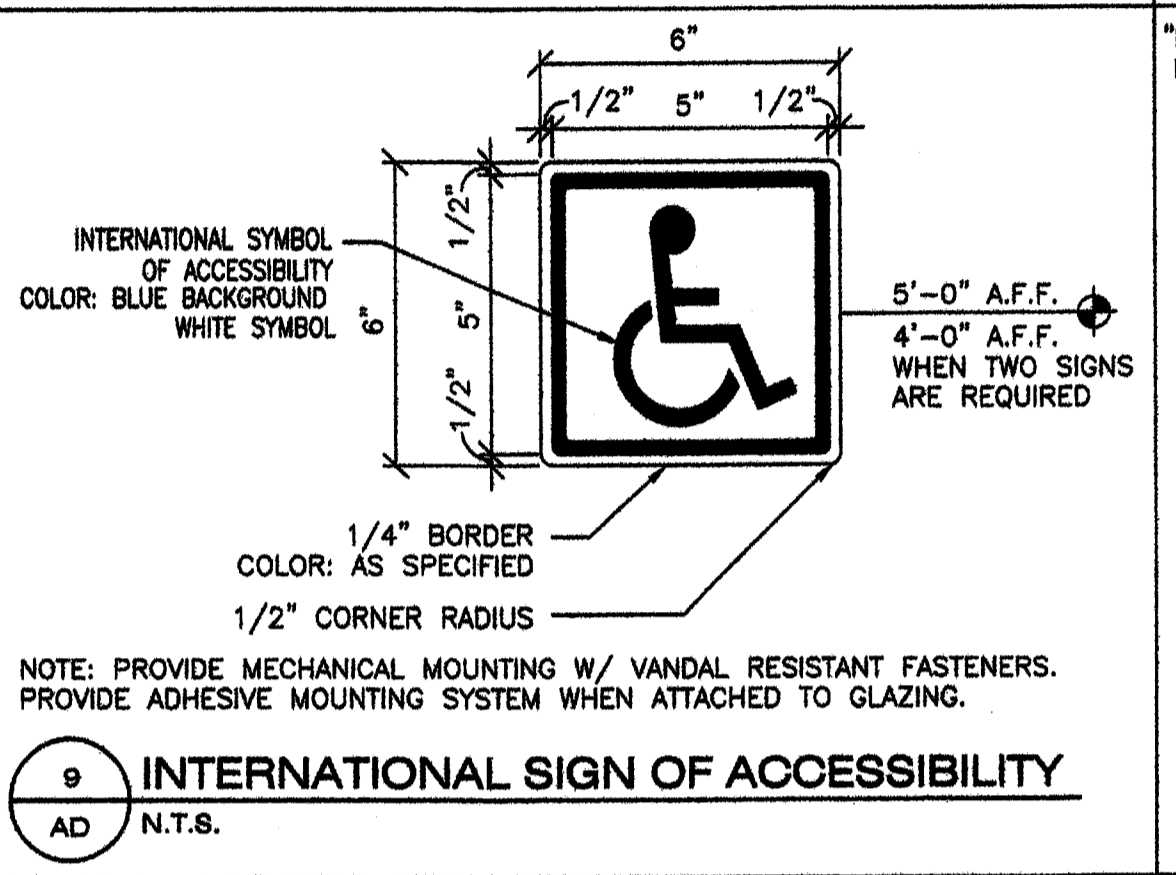
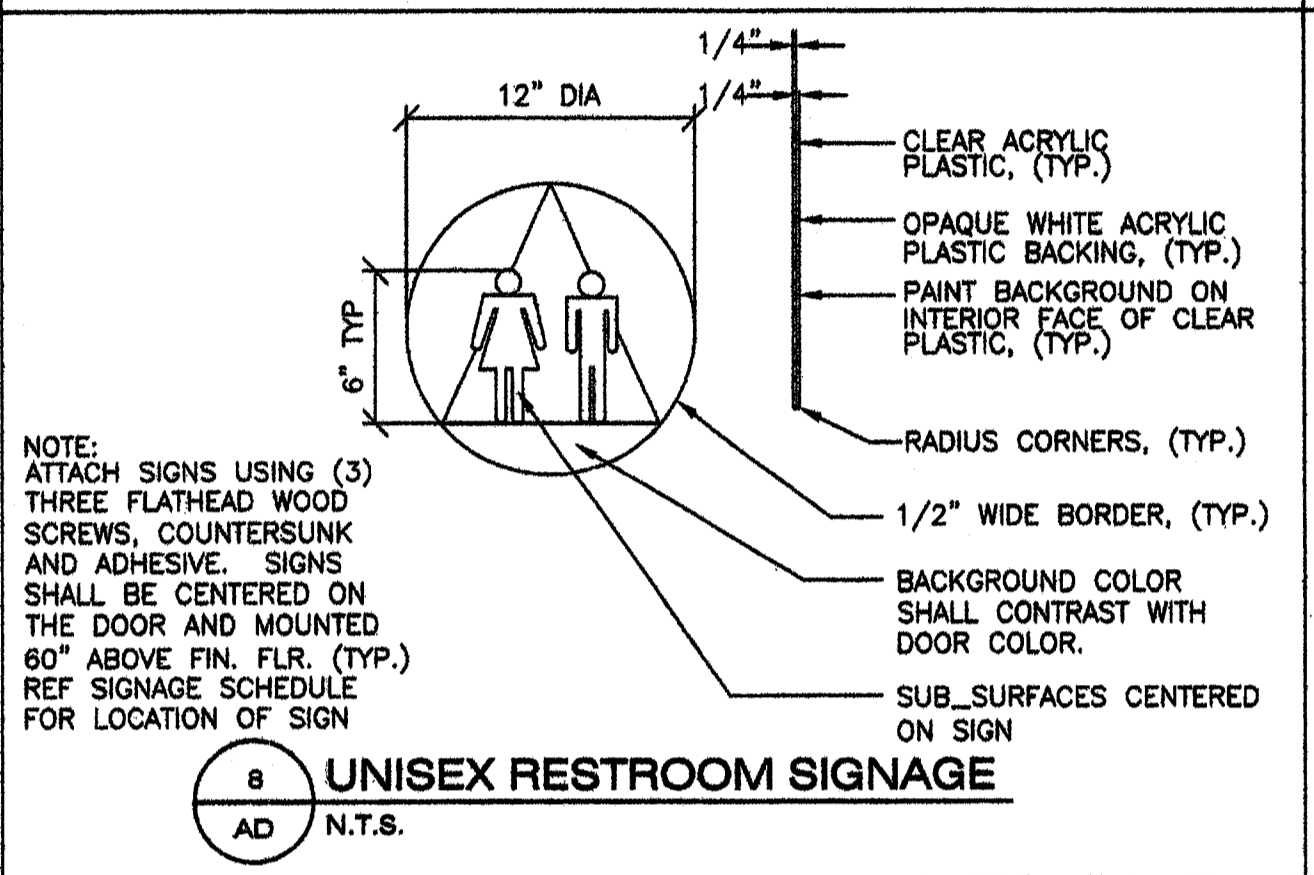
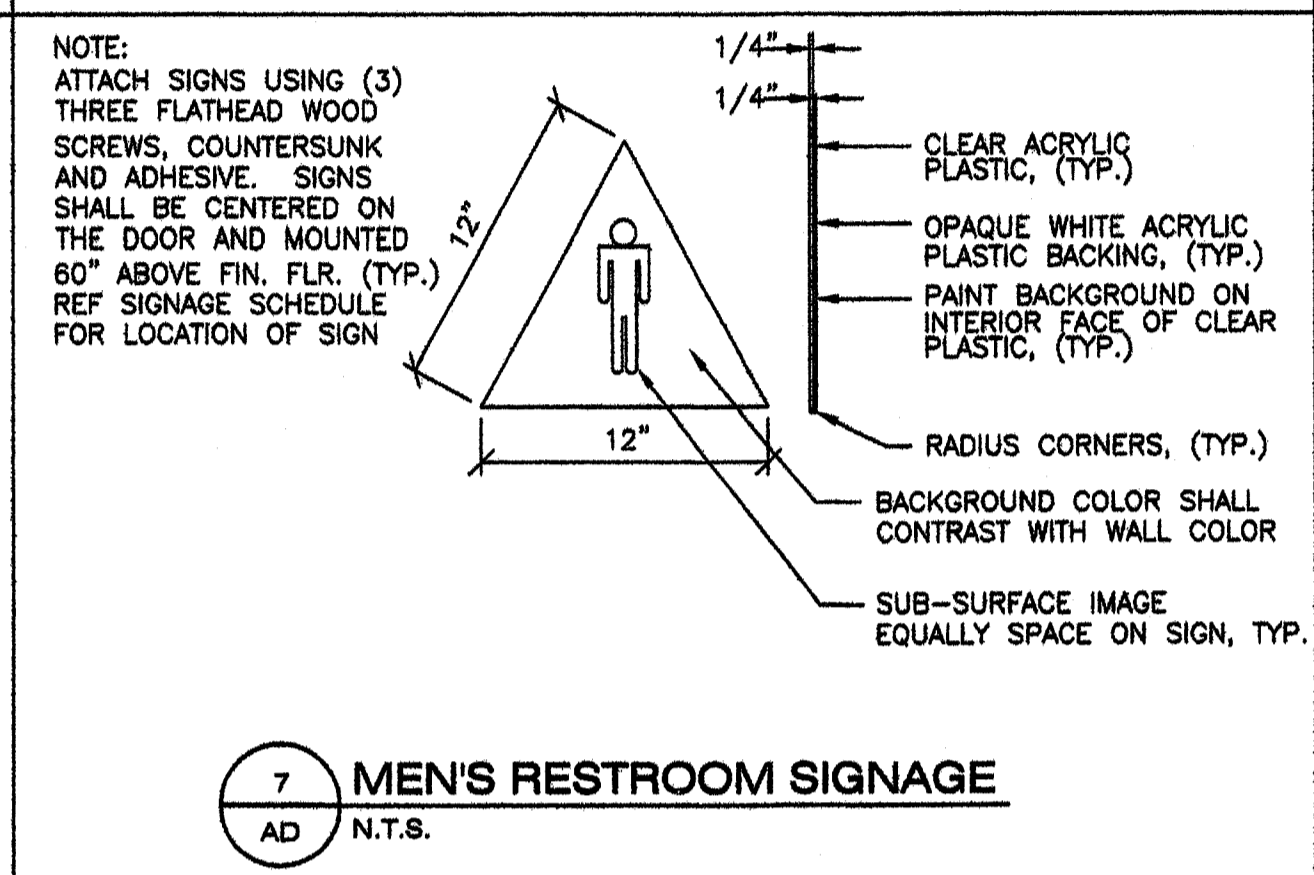
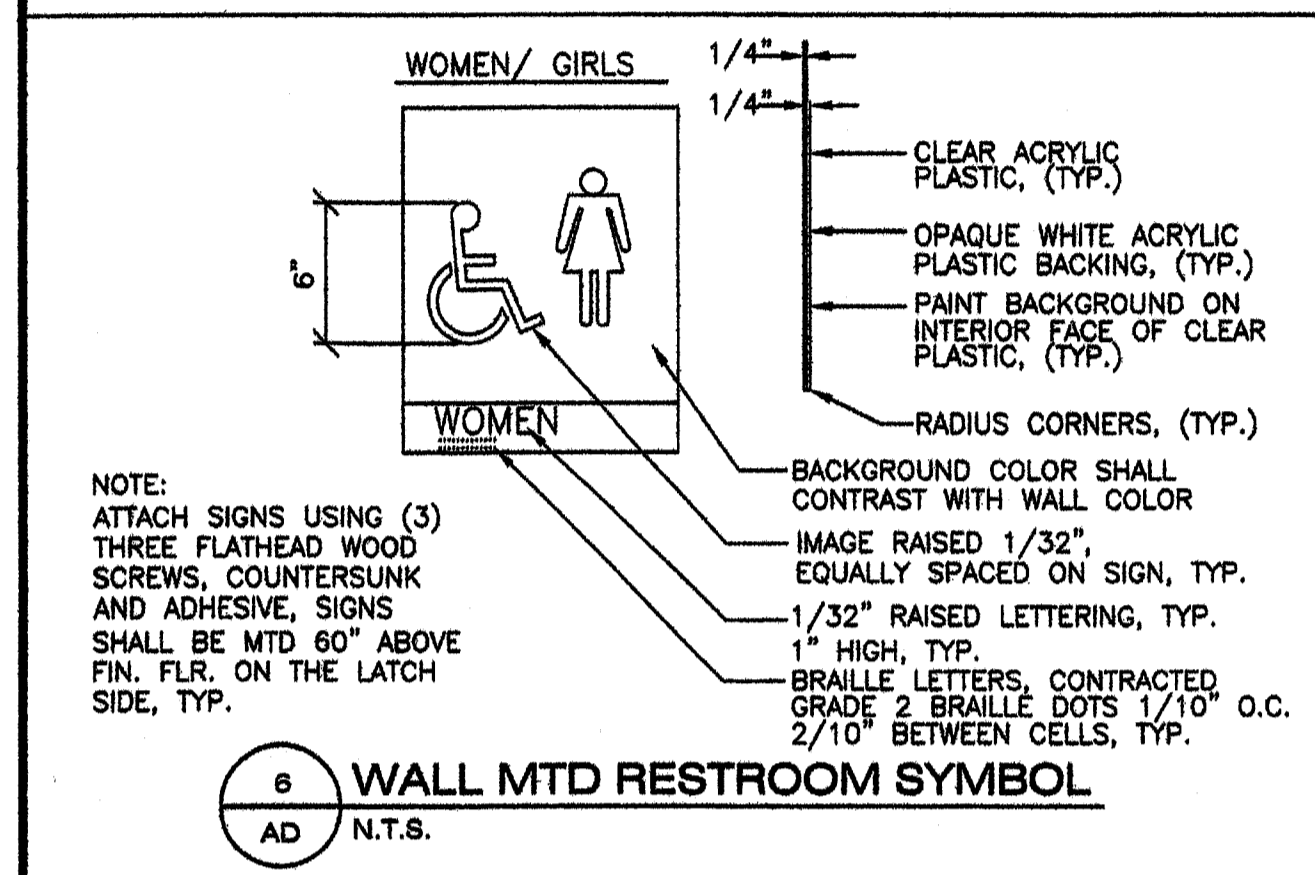
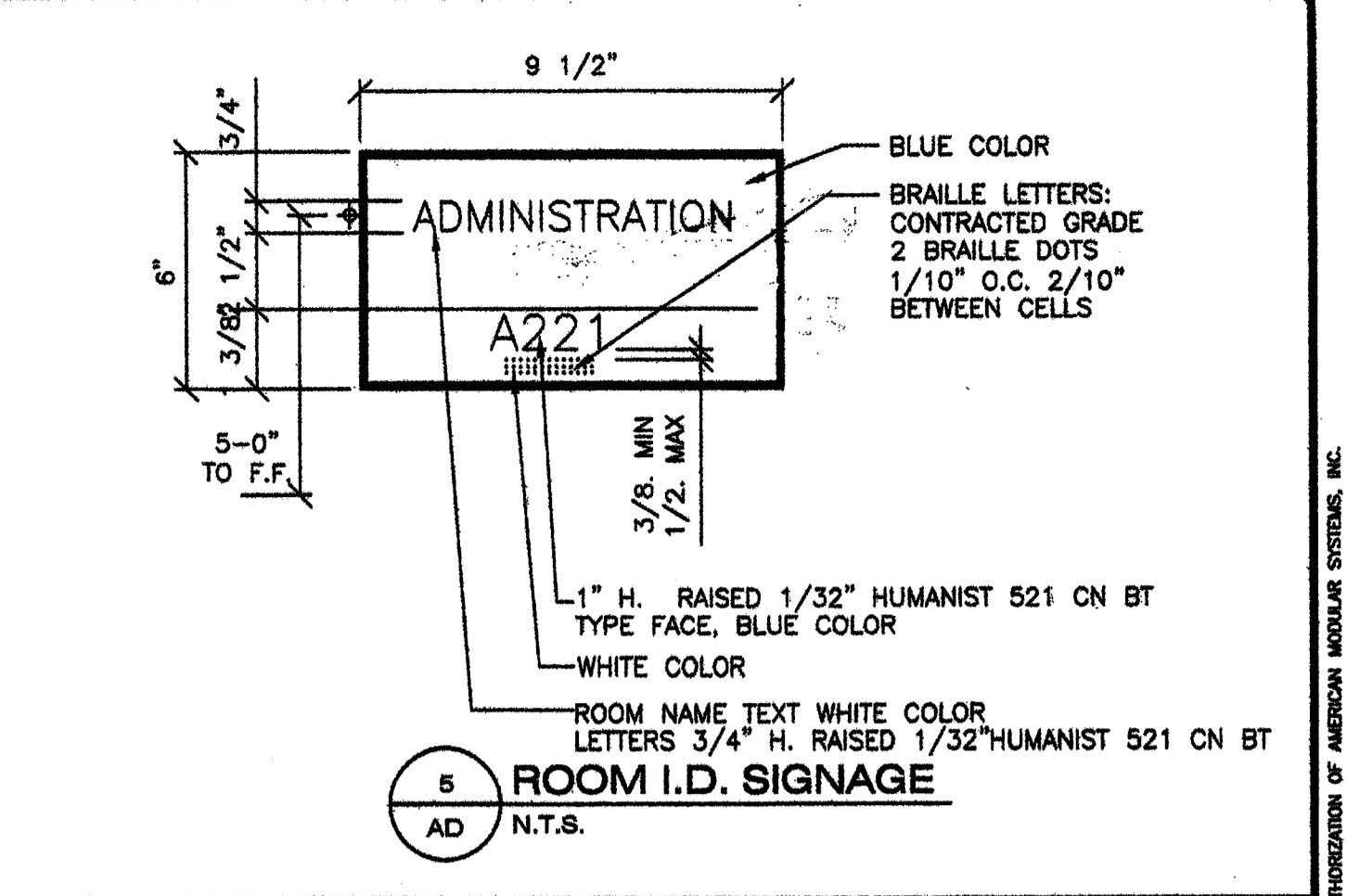
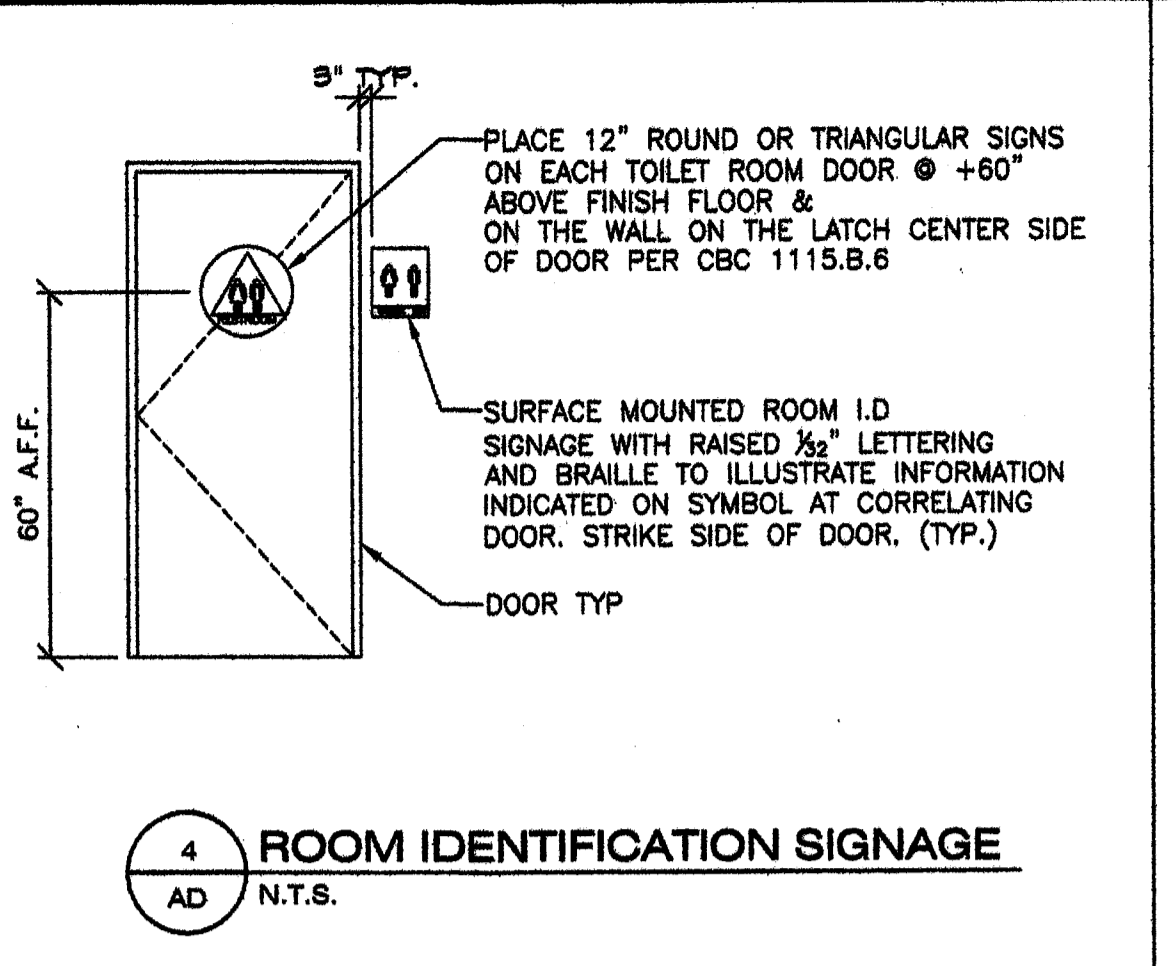
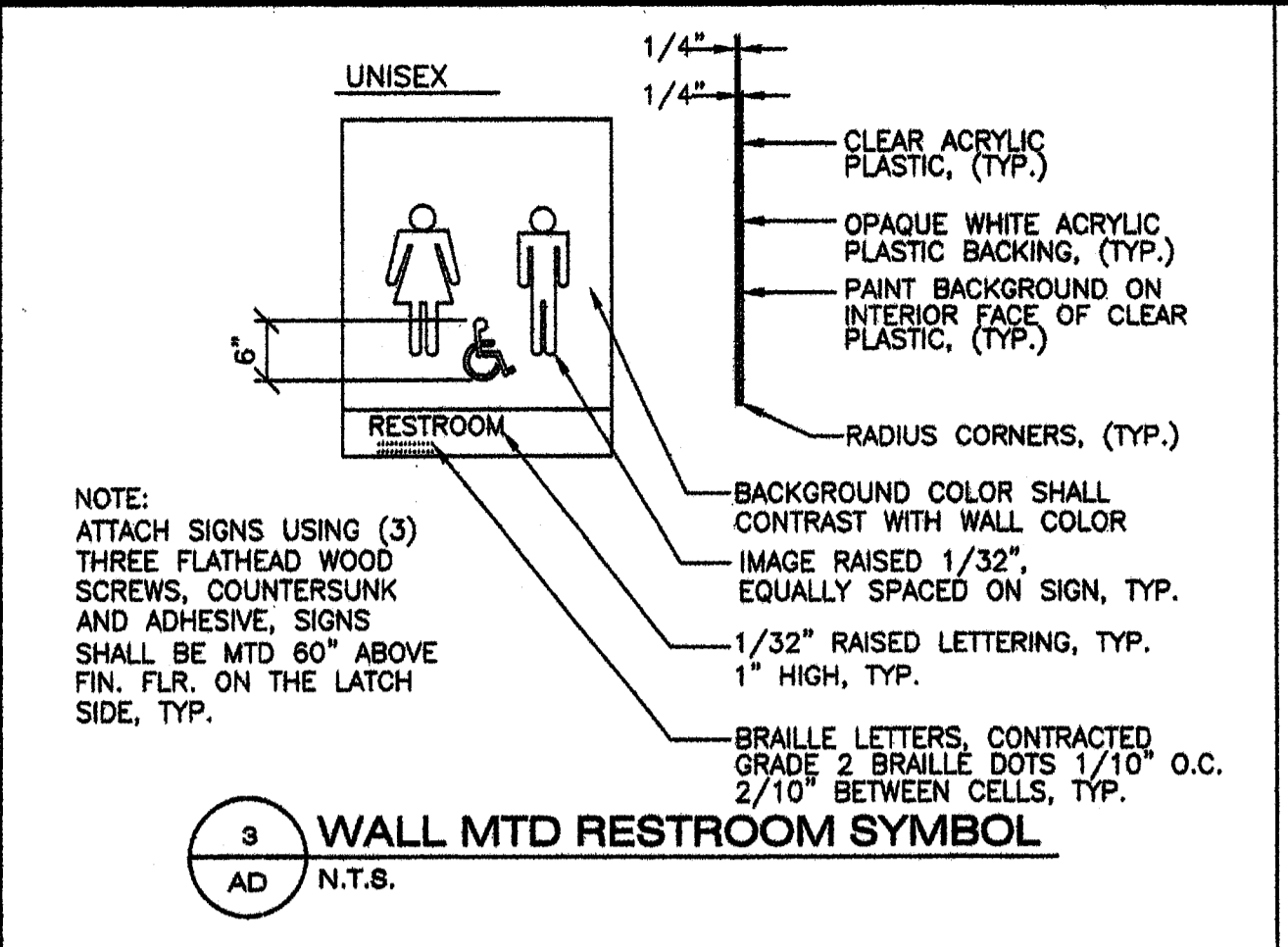
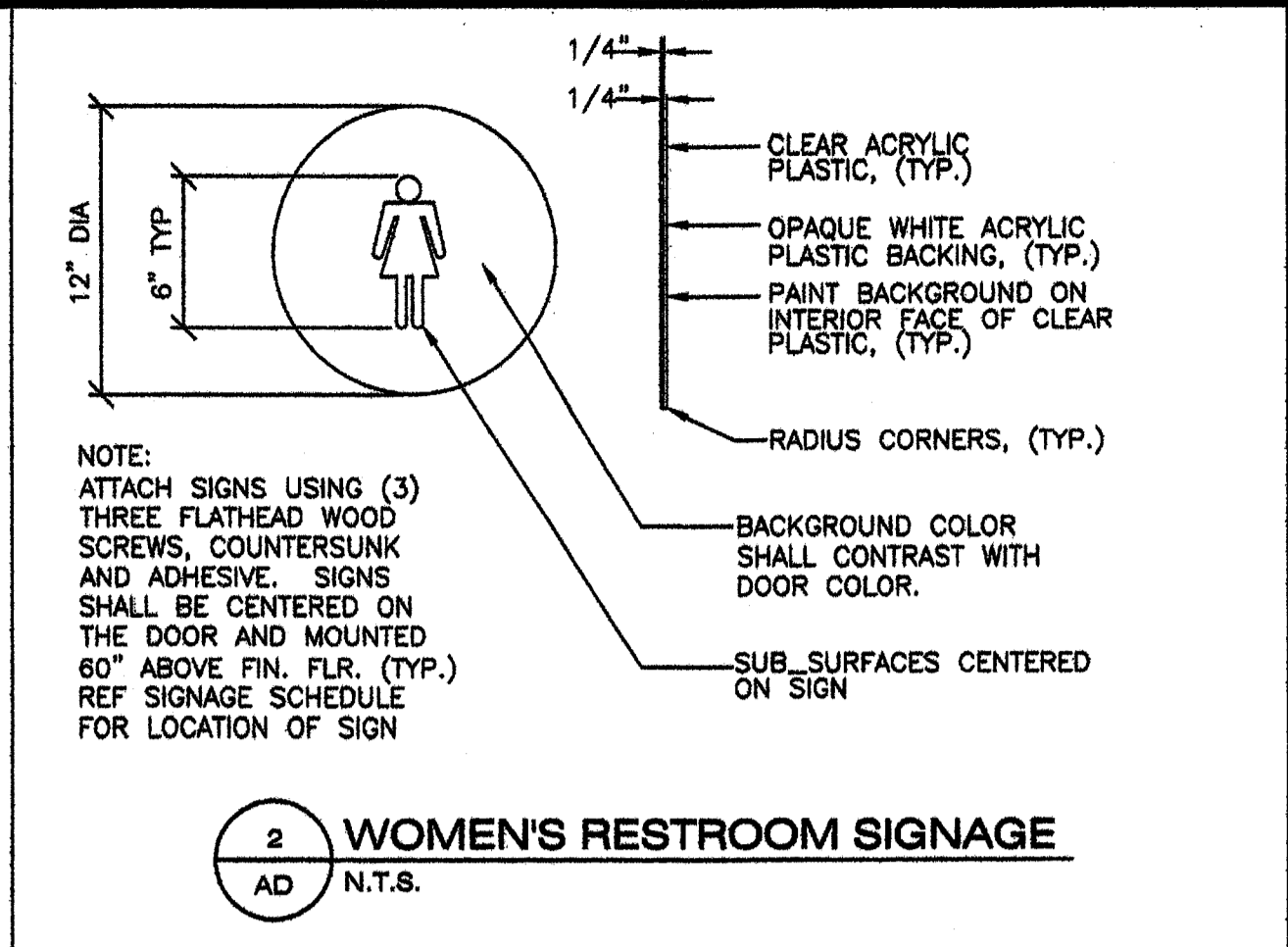
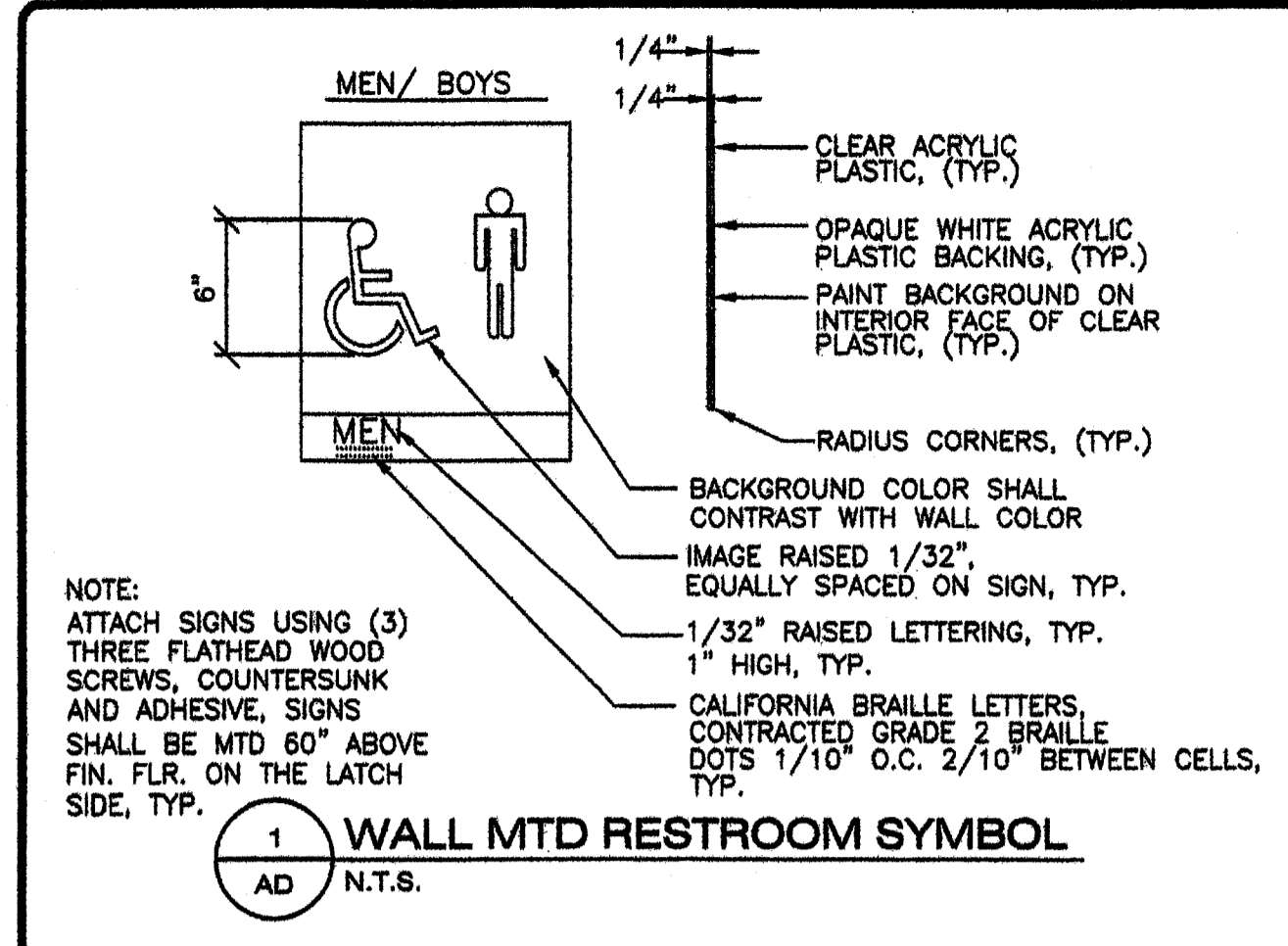
APPROVALS:



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DATE: 1/12/11

PROJECT No.
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DIMENSIONS FOR ACCESSIBILITY IN TOILET FACILITIES

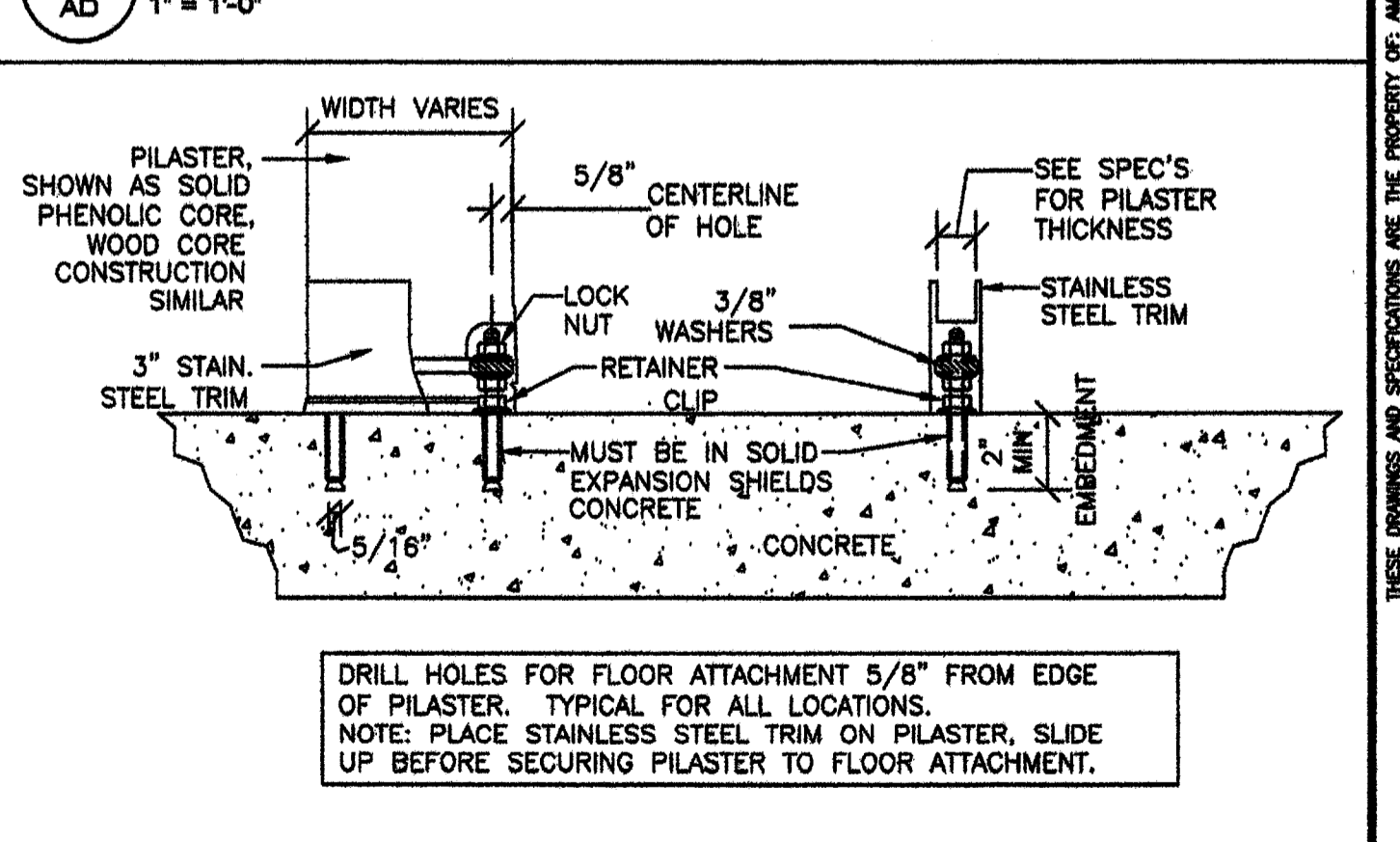
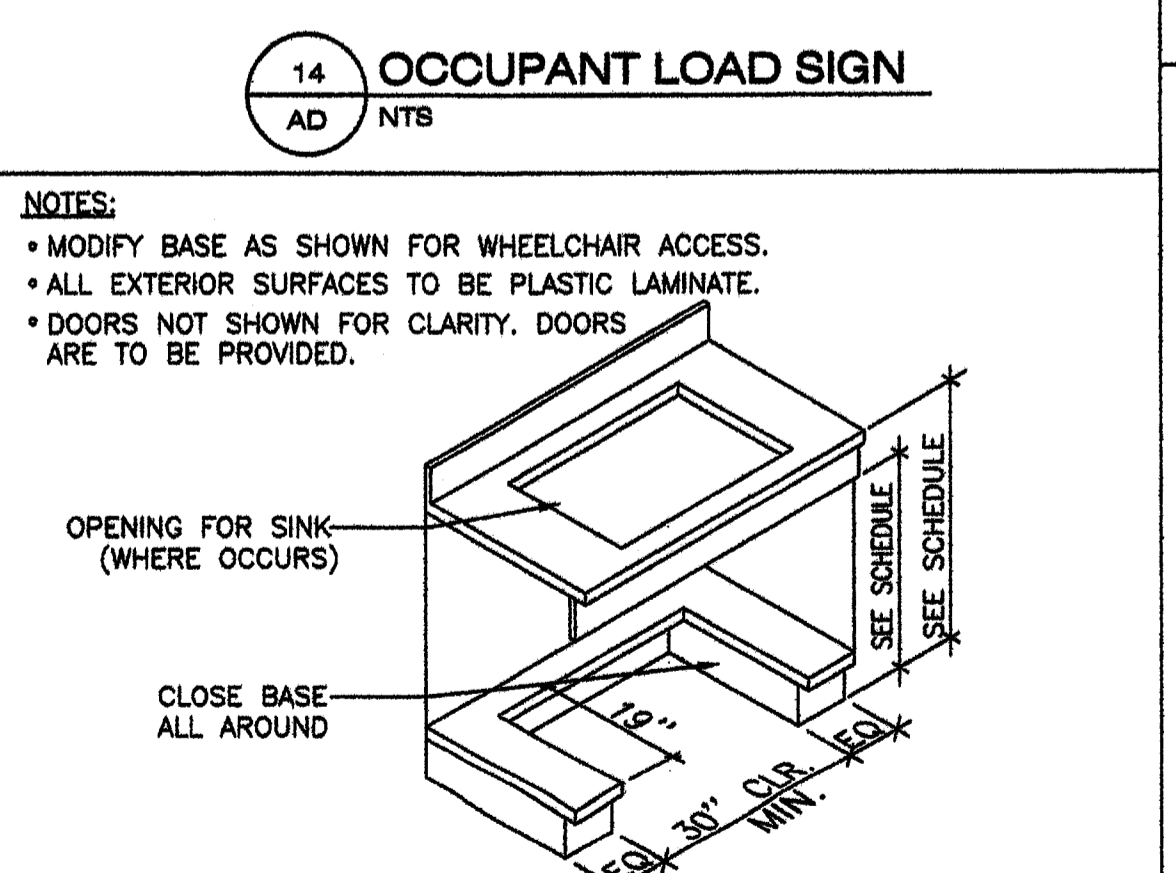
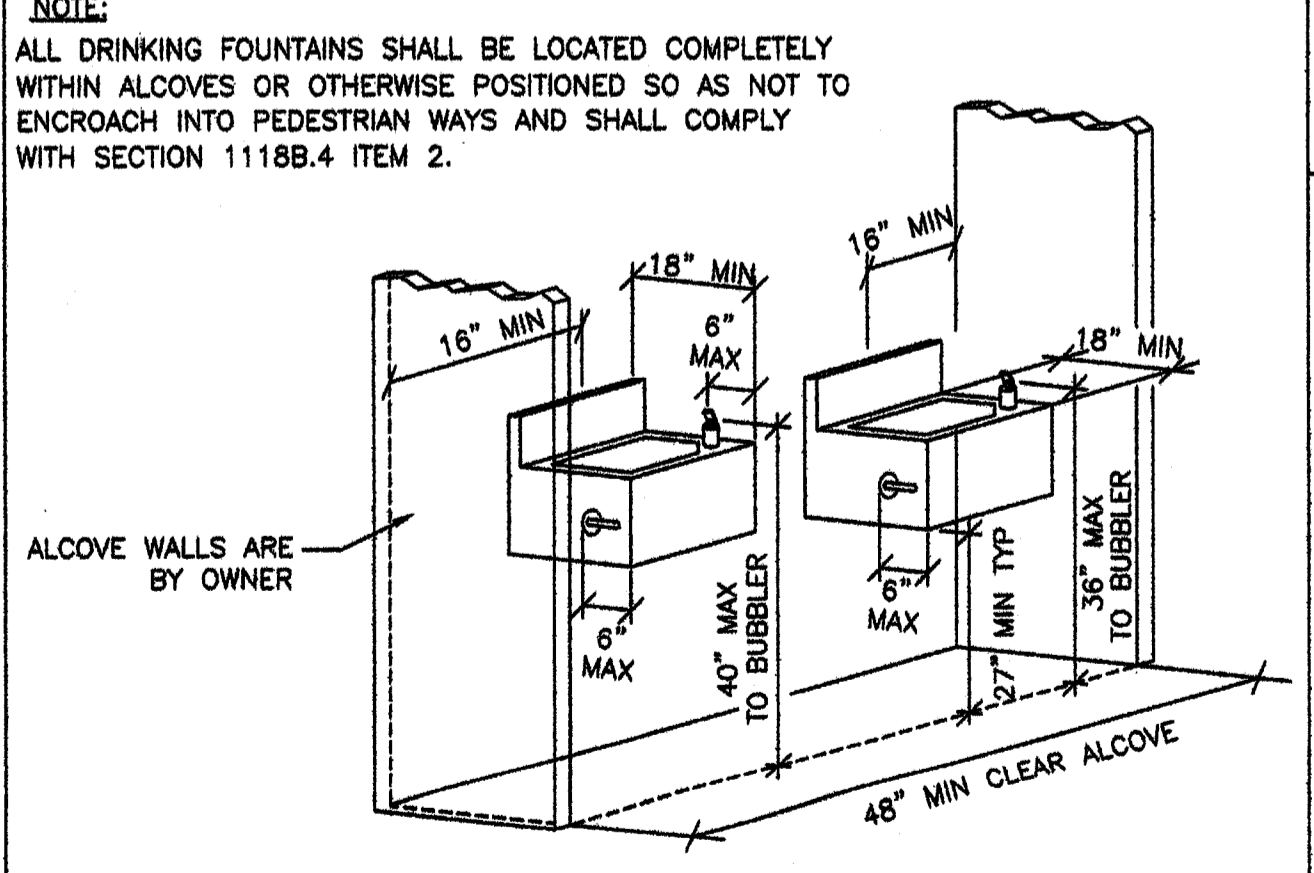
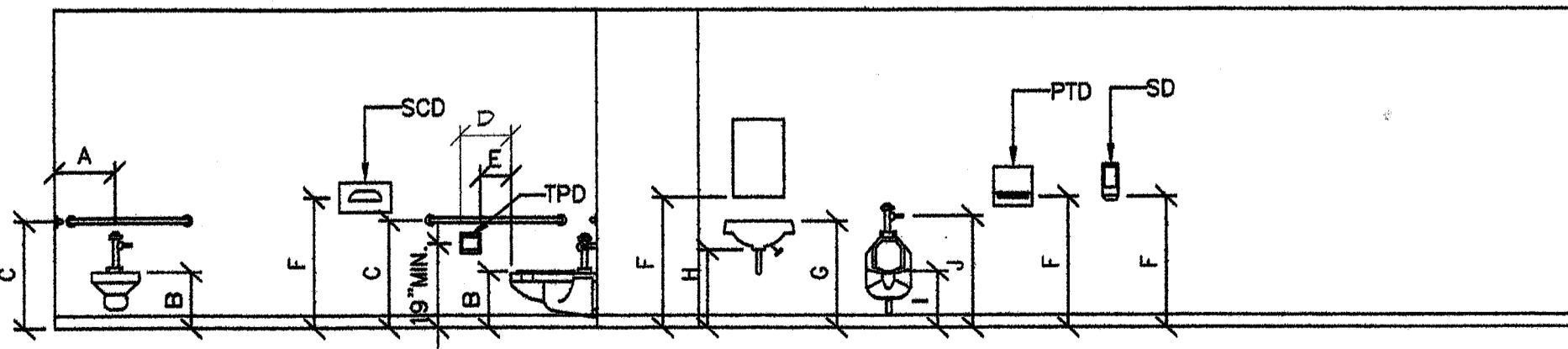
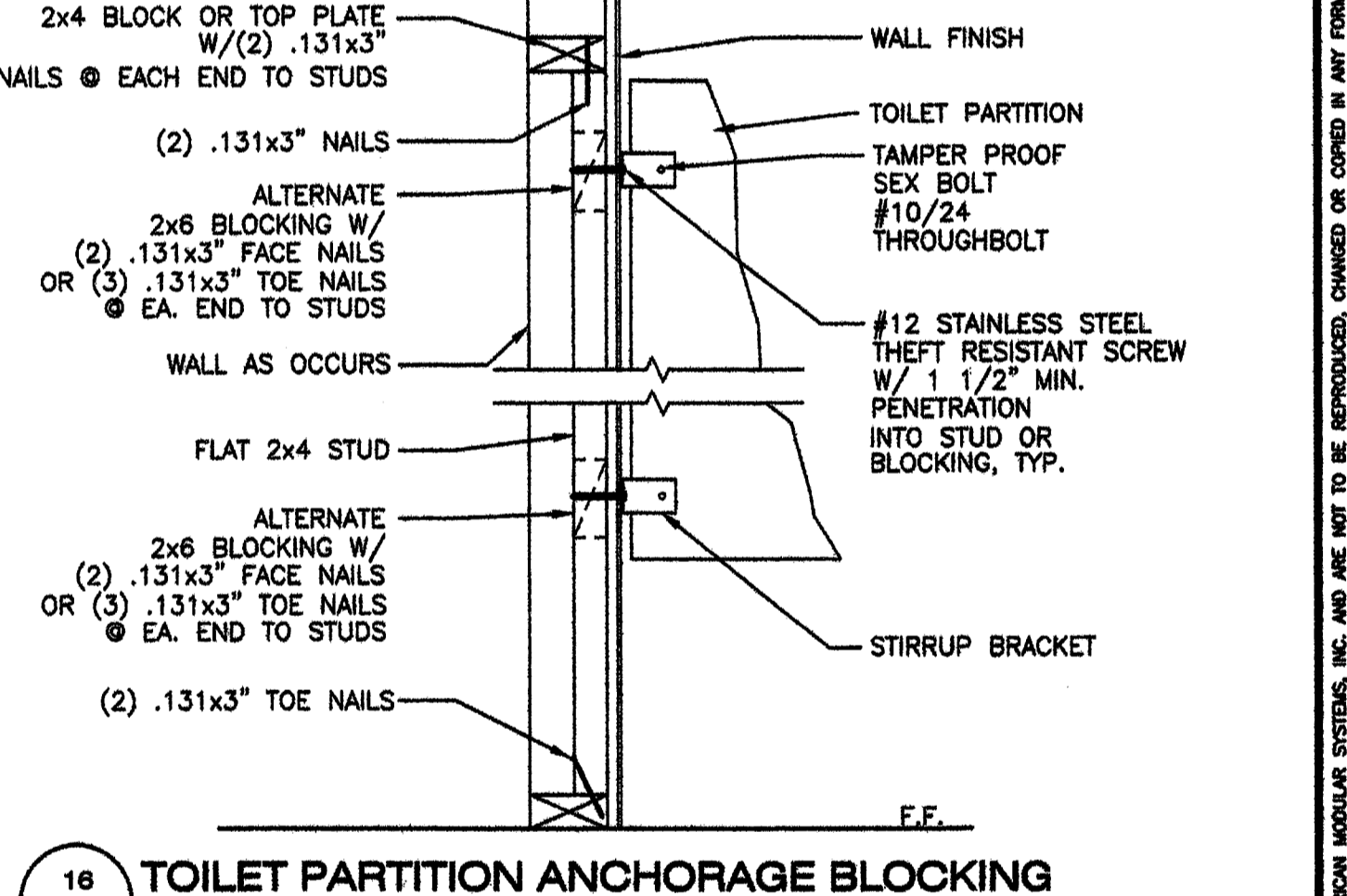
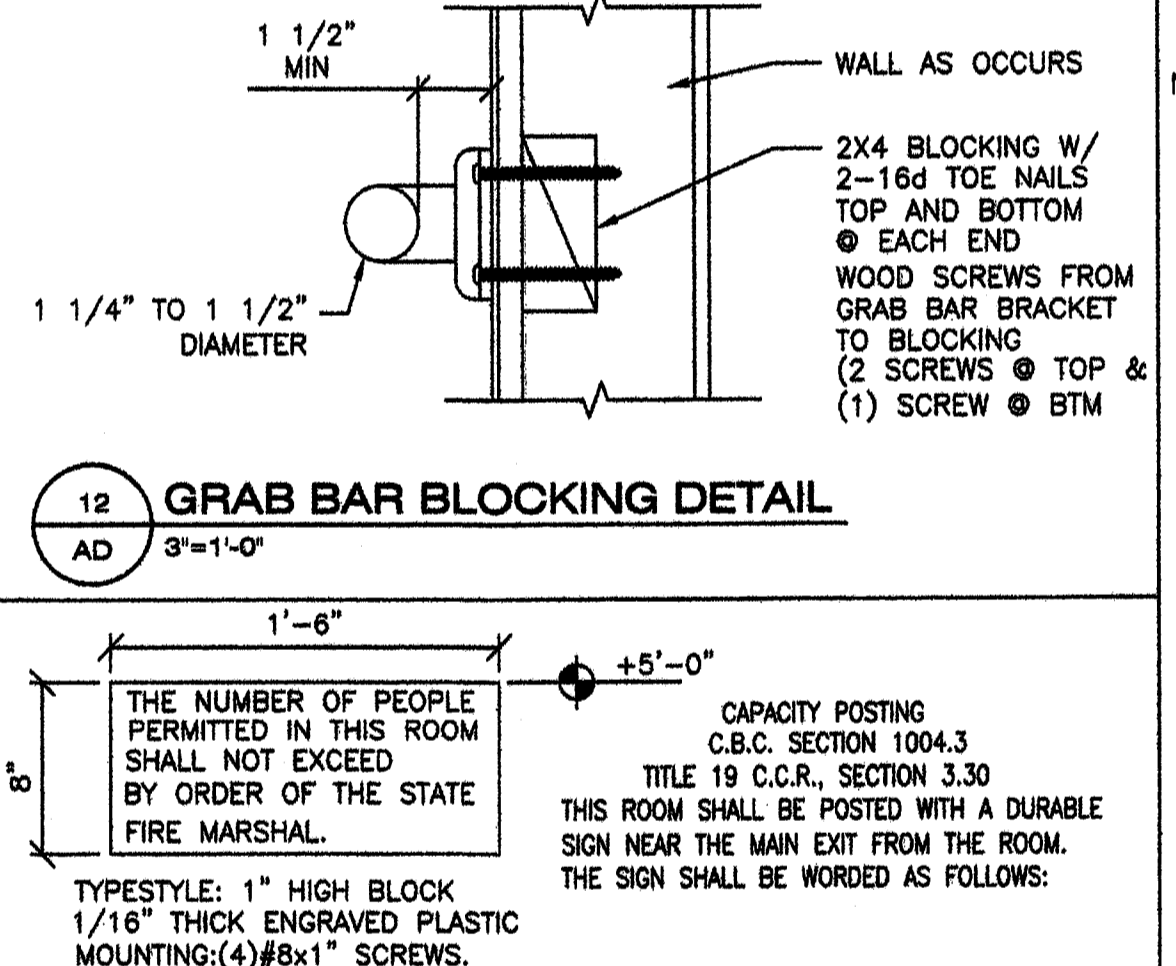
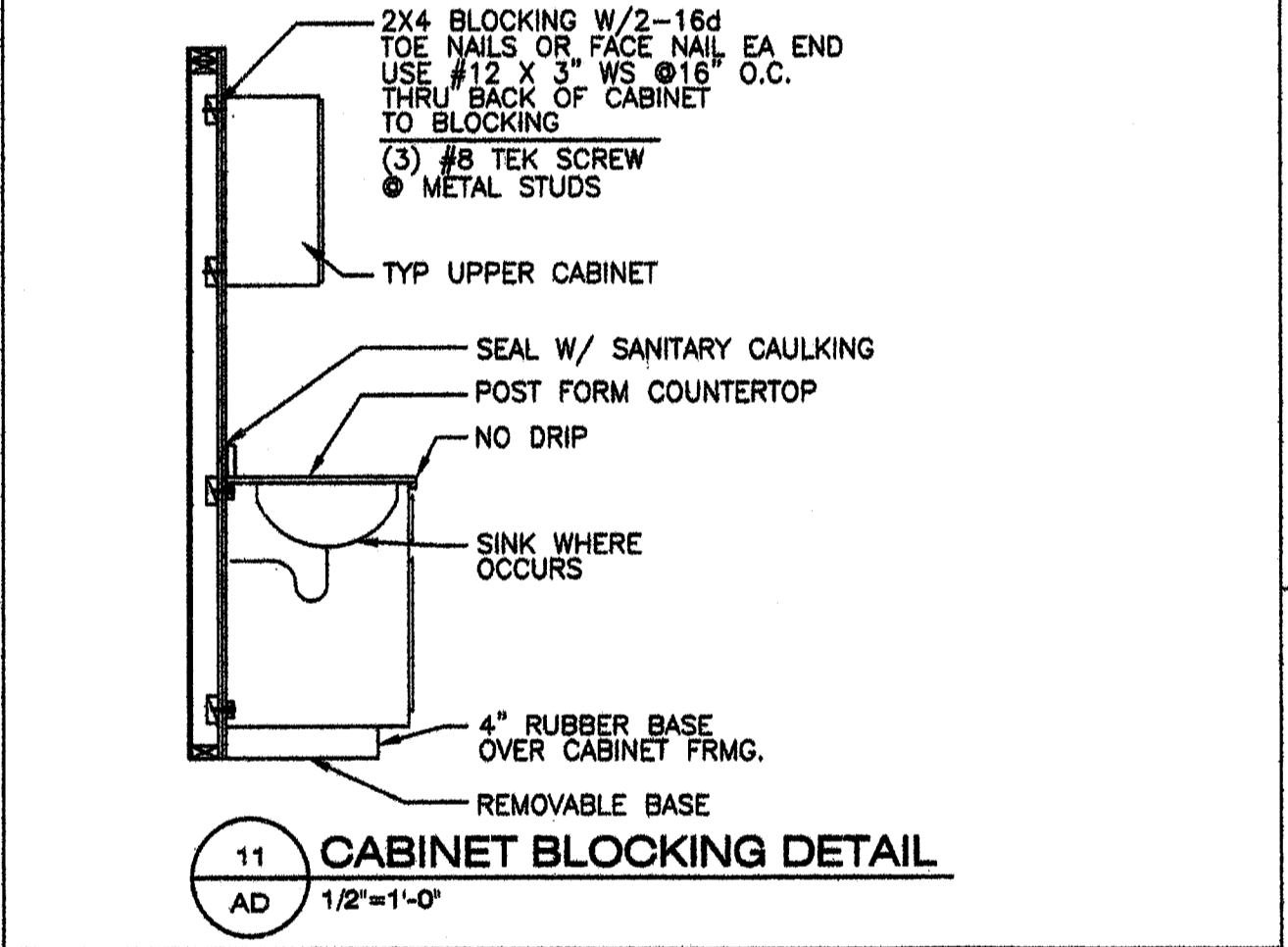
FIXTURE TYPE	ADULT (AGE 12 AND OVER) DIMENSION	ELEMENTARY DIMENSION	KINDERGARTEN & PRE-SCHOOL DIMENSION	REMARKS
A TOILET CENTERLINE FROM WALL	18"	15"	12"	FLUSH VALVE TO WIDE SIDE OF STALL TYP
B TOILET SEAT HEIGHT (TO TOP OF SEAT)	17"-19"	15"	10"-12"	
C GRAB BAR HEIGHT	33"	27"	20"-22" ABOVE SEAT	36" GRAB BAR @ REAR OF TOILET (250 LB CAPACITY TYP) (ALLOWED @ 38" A.F.F. @ TANK TYPE TOILET) 42" GRAB BAR @ SIDE OF TOILET
D TOILET PAPER DISPENSER IN FRONT OF TOILET (TPD)	12" MAX.	6" MAX.	6" MAX. **	12" IN FRONT OF TOILET ROLL PAPER HOLDER WITHOUT STOPS
E NAPKIN DISPOSAL IN FRONT OF TOILET (SND)	12" MAX.	12" MAX.	N/A	24" IN FRONT OF TOILET (BY OWNER)
F DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.	
G LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	24" MAX.	WRAP DRAIN WATER IF HOT WATER OCCURS
H LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	19" MIN.	
I URINAL LIP HEIGHT	17" MAX.	15" MAX.	13" MAX.	
J URINAL FLUSH HANDLE HEIGHT	44" MAX.	37" MAX.	32" MAX.	
K DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.	32" MAX.	30" MAX.	
L DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.	
M RAMP/STAIR HANDRAIL HEIGHT	34"-38"	27"	22"	

* = ABOVE SEAT
** = DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARDSHIP

NOTE: 1. ALL ITEMS ON THIS SCHEDULE DO NOT NECESSARILY OCCUR IN THE PROJECT
2. HEIGHTS NOTED ON INTERIOR ELEVATIONS SHALL GOVERN OVER THOSE SHOWN HERE.

SCD = SEAT COVER DISPENSER TPD = TOILET PAPER DISPENSER
PTD = PAPER TOWEL DISPENSER SND = SANITARY NAPKIN DISPOSAL (WHERE APPLICABLE)
SD = SOAP DISPENSER (ALL TOILET ACCESSORIES ARE N.I.C)

THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING AND CONSTRUCTION



15 ACCESSIBLE HEIGHTS @ TOILETS
AD N.T.S.

13 DRINKING FOUNTAIN REQUIRED CLEARANCES
AD N.T.S.

14 OCCUPANT LOAD SIGN
AD N.T.S.

17 TOILET PARTITION FLOOR ATTACHMENT
AD 1/2" = 1'-0"

REVISIONS

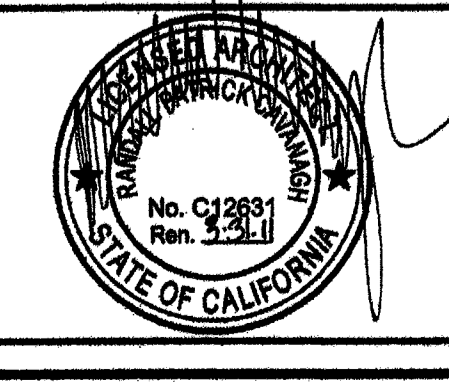
NO	DATE	DESCRIPTION

DATE: 12/02/04
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS
ACCESSIBLE DETAILS

AMS
American Modular Systems Inc.
787 Sprucekyle Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
amerfor@modular.com

APPROVALS:



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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
AC. J. FLEISS, S.S. C.E.
DATE: 11/11

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AD

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MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

UP TO (10) APPROXIMATELY 12' x 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"x1 -1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

- 1. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
2. DESIGN WIND LOAD / EXPOSURE
3. DESIGN ROOF LIVE LOAD
4. DESIGN FLOOR LIVE LOAD
5. D.S.A. APPLICATION NUMBER.

2-TAGS PER MODULE ONE ON EXTERIOR AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 ga. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FLET MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45#/c. ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2-1/8" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4 X 8 PANELS INSTALLED SIDE BY SIDE TO MAKE A 4 X 16 PANEL, CENTERED ON THE LONG WALLS. REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

NOTE:

Table with 2 columns: WALL FINISH MATERIAL, BUILDING INSULATION, PIPE INSULATION, DUCT INSULATION. Lists flame and smoke density max values for each.

INTERIOR

- 1. FLOOR: CARPETS - CLASSROOM SHALL BE CARPETED AS INDICATED ON FLOOR PLAN WITH DIRECT GLUE DOWN TYPE PER STATE OF CALIFORNIA SPECIFICATION 7220-XXX-01, GROUP 1, TYPE A, CLASS 26. COLOR WILL BE SELECTED BY ARCHITECT AFTER AWARD OF BID. THE CARPET DENSITY SHALL BE 4600 MINIMUM. PILE YARN SHALL BE BRANDED NYLON. NO CROSS SEAMS SHALL BE ALLOWED. PILE HEIGHT 1/2" MAX
2. BASE: RESILIENT COVE BASE - 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 COLOR AS MANUFACTURED BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR PLYWOOD SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS III FLAME SPREAD RATING. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.
4. CEILING: SUSPEND T-BAR SYSTEM, SEE SHEET M2 FOR DETAILS ETC. MATERIALS AND INSTALLATION PER IR 25-5 INCLUSIVE AS APPLICABLE TO CLASSROOMS.

DOORS & WINDOWS

EXTERIOR DOORS: METAL DOORS - 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MIN AND REINFORCED WITH 20 GA. MIN. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR.
EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LIGHTS OF GLASS AND THE AIR SPACE. GLAZING MATERIAL SHALL BE:
EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.
INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED.
MINIMUM AIR SPACE SHALL BE 1/4".
SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OF SILICONE SECONDARY SEAL.
CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.
HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR PLYWOOD SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY. SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANSI), COMMERCIAL GRADE.

HARDWARE

- 1. EXTERIOR DOOR
A) HINGES: HAGER 4-1/2X4-1/2 BUTTS. BB1279 US26D, 1-1/2 PAIR EACH DOOR WITH SET SCREW IN BARREL AND BALL BEARING DESIGN, OR APPROVED EQUAL.
B) EXTERIOR LOCKSET: SCHLAGE ND70PD CORBIN OR YALE OR EQUIVALENT. ALUM. FINISH. OR PANIC BARS/PULL HANDLE PANIC BAR TYPE VON DUPRIN 22L (PULL ON EXT.) OR CORBIN OR YALE OR EQUIVALENT. ALUM. FINISH. PANIC BARS ARE ONLY REQUIRED WHERE THE OCCUPANT LOAD IS 50 OR MORE.
C) CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. MAXIMUM 5 LBS FOR EXTERIOR AND INTERIOR DOORS. THE MAXIMUM EFFORT FOR FIRE DOORS MAY BE INCREASED TO THE MAXIMUM ALLOWED BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS. THE SWEEP PERIOD FROM AN OPEN POSITION OF 70 DEGREES SHALL BE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
D) WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007, AT DOOR JAMBS AND HEAD OR EQUAL.
E) THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
F) DOORSTOP: QUALITY #44, OR EQUAL.
D) INTERIOR LOCKSET: SCHLAGE LEVER HANDLE LOCKSET, AS FOLLOWS:
STUDENT TOILETS \$10A PASSAGE LATCH OR EQUAL
OFFICES \$70D CLASSROOM LOCKSET OR EQUAL
CUSTODIAL \$80A LOCKSET OR EQUAL
PUBLIC TOILETS \$40A PRIVACY LATCHSET OR EQUAL

FIRE EXTINGUISHER

- 1. EACH PORTABLE CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. TO BE MOUNTED ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE MOUNTING BRACKET AND THE BOTTOM OF FE MOUNTED 27" AFF. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

2007 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CCR) SEC. 1103B.1 BUILDING ACCESSIBILITY, GENERAL. THE 2007 CBC REQUIRES THAT BUILDINGS EXCEEDING 10,000 SQUARE FEET ON ANY FLOOR MUST HAVE AN ACCESSIBLE MEANS OF VERTICAL ACCESS VIA RAMP, ELEVATOR, OR LIFT WITHIN 200 FEET OF TRAVEL OF EACH STAIR AND EACH STAIR AND EACH ESCALATOR. TABLE 1115B-1 SUGGESTED DIMENSIONS FOR CHILDREN'S USE. THE 2007 CBC REQUIRES A 27" MINIMUM DIMENSION FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK.
SECTION 1115B.3.1 ACCESSIBLE WATER CLOSET COMPARTMENT. THE 2007 CBC REQUIRES AN ACCESSIBLE TOILET STALL TO HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.
SECTION 1115B.4.4.4. WATER CONTROLS THE 2007 CBC REQUIRES THAT THE FORCE TO OPERATE A WATER CONTROL (VALVE) FOR AN ACCESSIBLE SHOWER SHALL NOT EXCEED 5LBS. MAXIMUM FORCE (PULL).
SECTION 1117B.5 SIGNS AND IDENTIFICATION (ALSO REFER TO SECTIONS 1115B.6, 1116B, 1007.6.5 1007.7, 1008.1.8.6, 1011.3, 1020.1.5 & 1020.1.6.1-5 THE 2007 CBC MAKES SEVERAL GENERAL DESIGN CHANGES AND CLARIFICATIONS TO SIGNAGE.
*ALL GROUND FLOOR EXIT DOOR SHALL HAVE TACTILE EXIT SIGNAGE.
*AT STAIRS, EACH FLOOR SHALL RECEIVE TACTILE "STAIR LEVEL" SIGNAGE IN ADDITION TO SPECIAL TACTILE AT THE EXIT DISCHARGE LEVEL.
*EACH EXIT DOOR THAT LEADS TO A GRADE LEVEL EXIT BY MEANS OF A STAIRWAY SHALL HAVE TACTILE EXIT SIGNAGE.
*EACH EXIT ACCESS DOOR TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN SHALL BE IDENTIFIED BY TACTILE EXIT SIGNAGE.
SECTION 1129B ACCESSIBLE PARKING REQUIRED. THE 2007 CBC REQUIRES THE WORDS "NO PARKING", IN 12" HEIGHT WHITE LETTERS, TO BE PAINTED ON THE PAVEMENT WITHIN ALL PARKING SPACE ACCESS AISLES. VAN PARKING ACCESS AISLES SHALL BE PLACED ON THE PASSENGER SIDE OF THE VEHICLE. RAMPS MAY NOT ENROACH INTO ANY REQUIRED ACCESS AISLE. PARKING SPACE ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
*EXISTING SITES: AT EXISTING SITES, ANY RAMP WHICH EXCEEDS A 2% SLOPE ACCESS AISLES FOR ACCESSIBLE PARKING SPACES PER CBCS SECTION 1129B, MAY REQUIRED REMOVAL AND REDESIGN PER THE PATH OF TRAVEL (POT) PROVISIONS OF CBCS SECTION 1134B, IN ORDER TO APPROVE THE BUILDING PLACEMENT.
SECTION 1133B.2.5 CLOSER EFFORT TO OPERATE DOORS. THE 2007 CBC REQUIRES THAT THE EFFORT TO OPEN AN EXTERIOR DOOR SHALL NOT EXCEED 5 POUNDS (PULL). THE 2007 CBC REQUIRES THAT THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 3 SECONDS MAXIMUM, BASED ON AN OPEN DOOR POSITION OF 70 DEGREES (FROM CLOSED), TO A DOOR POSITION OF 3" FROM THE LATCH.
SECTIONS 1133B.2.4.5 & 1133B.2.5.3 RECESSED DOORS. THE 2007 CBC REQUIRES THAT DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-33 (A).
SECTION 1133B.4.2.4 HANDRAIL ORIENTATION. THE 2007 CBC SPECIFIES THAT AT LEAST ONE HANDRAIL SHALL BE PARALLEL TO THE DIRECTION OF THE STAIR RUN, AND PERPENDICULAR TO THE EDGE OF THE STAIR NOSING.
SECTION 1133B.5.2 RAMP WIDTH: MINIMUM 48" CLEAR AT OCCUPANT LOAD 300 OR LESS, 60" CLEAR AT OCCUPANT LOAD MORE THAN 300. RADIUS MINIMUM OF 0.125" THE 2007 CBC REQUIRES THAT SIGN EDGES LESS THAN 80" ABOVE THE FINISHED FLOOR MUST CONTAIN ROUNDED OR EASED RADIUS MINIMUM OF 0.125" THE PROJECT PLANS OR SPECIFICATIONS SHALL INDICATE THE REQUIREMENT THAT THE MANUFACTURER SHALL PROVIDE A WRITTEN FIVE-YEAR PRODUCT WARRANTY, IN ACCORDANCE WITH THE BULLETIN.

LIGHT GAUGE METAL STUDS

- 1. ALL GALVANIZED STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE 2001 AISI/COS/ANSI.
2. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A 1011
3. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH REQUIREMENTS OF ASTM A 1011 PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED AND ORDERED TO BE IN CONFORMANCE WITH ASTM C-955 OTHERWISE, G-40 OR EQUIVALENT COATING WILL BE PROVIDED.

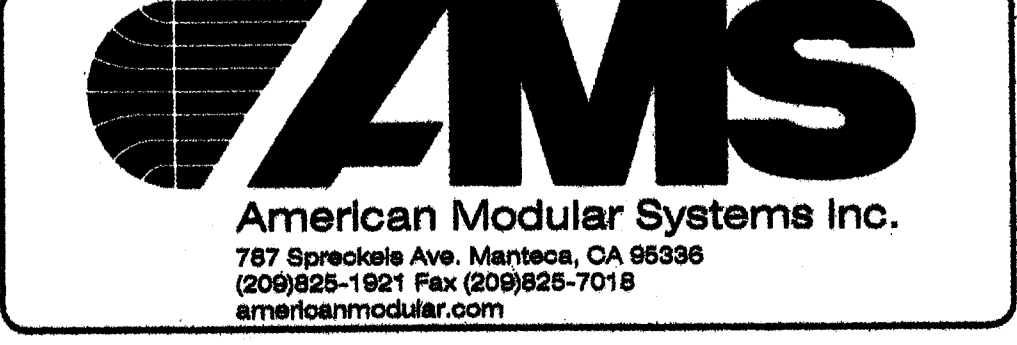
METAL FLOOR DECK

- 1. SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI " SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION."
2. METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3 "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."
3. ASTM REFERENCE NUMBERS: A) ASTM A653, STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY.
4. STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN CONFORMANCE WITH SDI STANDARDS.
5. METAL FLOOR DECK TO BE ASC STEEL DECK
1. B-36, 18 GAUGE
1 1/2" DEEP X 36" WIDE
2. N-24, 18 GAUGE
3" DEEP X 24" WIDE
6. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO ASTM A653, Fy=38 KSI WITH A GALVANIZED COATING, G-60 OR G-90.

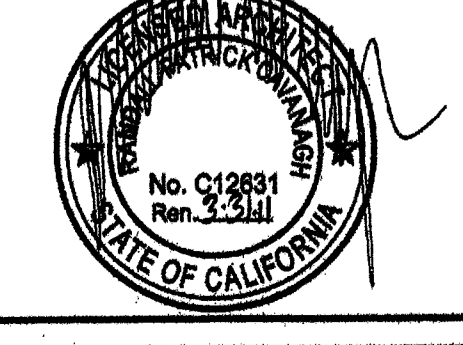
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SCALE: NOTED
DRAWN BY: RL
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS
GENERAL NOTES



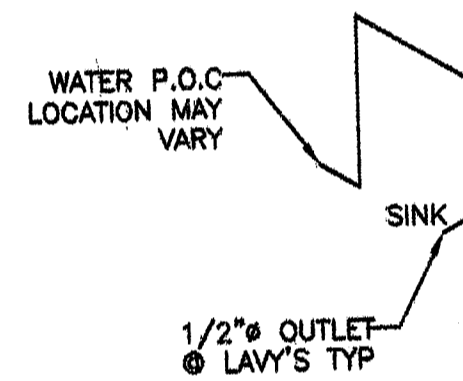
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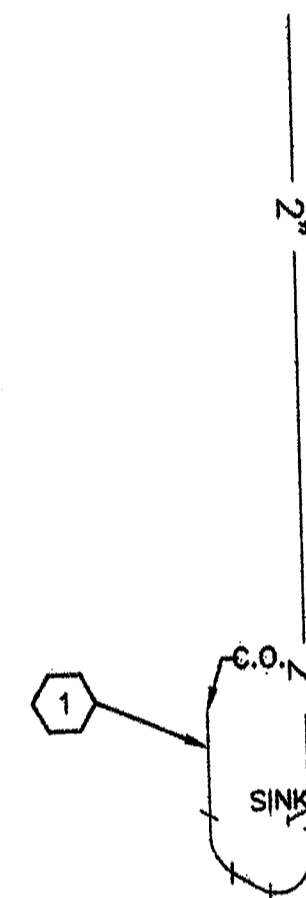
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OFFICE OF REGULATION SERVICES
02-111612
AC. W. FISHER, S.S. G.R.
DATE 1/11/11

PROJECT No.
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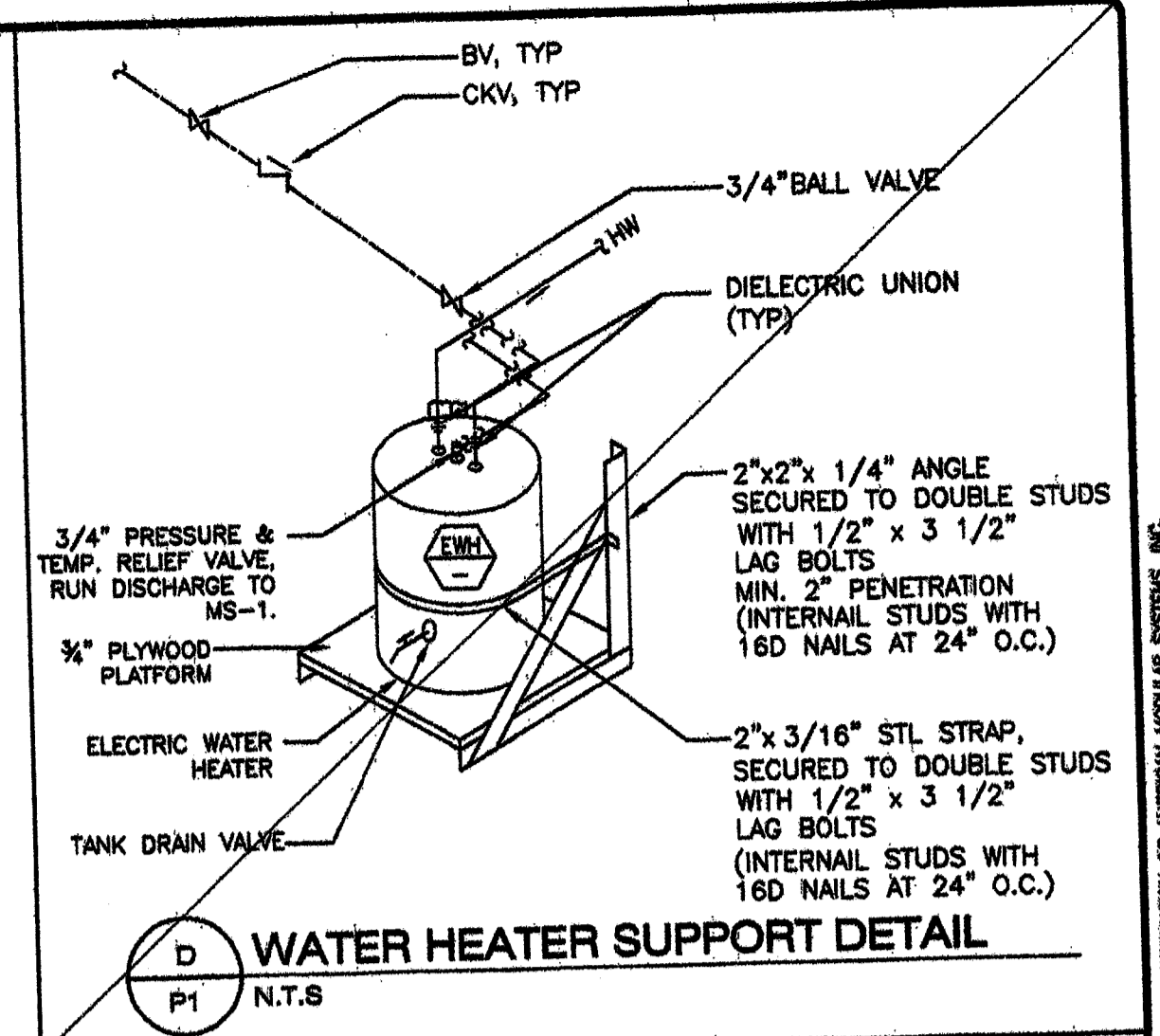
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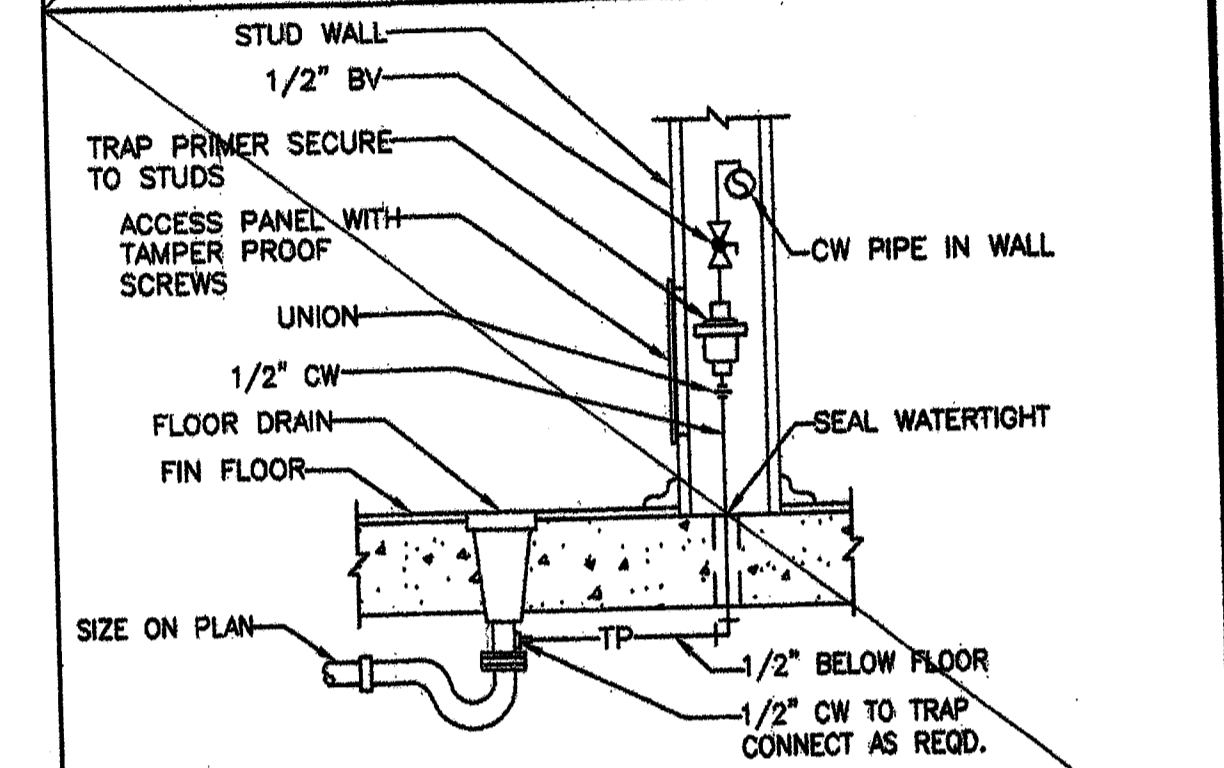
A WATER SUPPLY ISOMETRIC
P1 NO SCALE



B WASTE ISOMETRIC
P1 NO SCALE

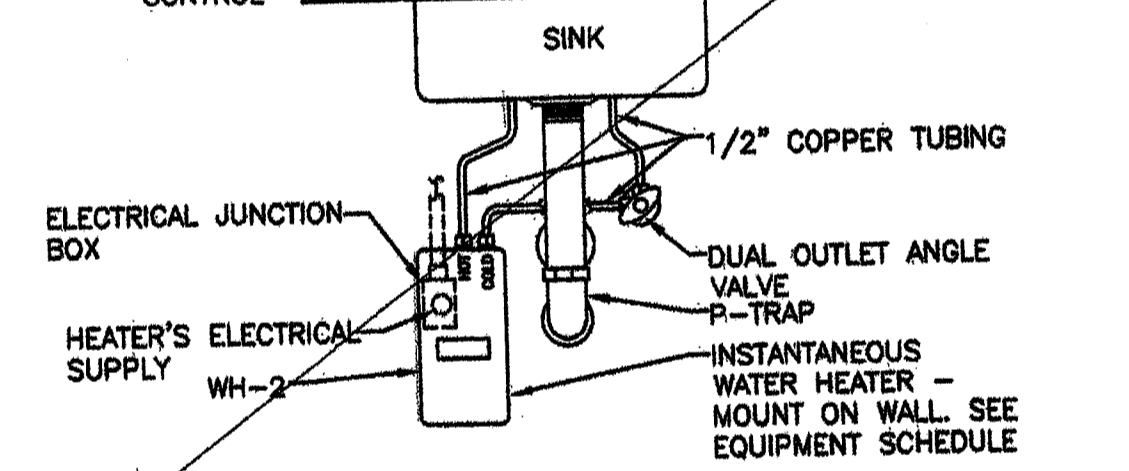


D WATER HEATER SUPPORT DETAIL
P1 N.T.S



E TRAP PRIMER DETAIL
P1 N.T.S

NOTE:
INSULATE HOT WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE LAVATORIES WITH HAND-LAV GUARD KITS AS MANUFACTURED BY "TRUEBRO" INC.
FAUCET SHALL BE FLOW RESTRICTED TO MATCH FLOW CONTROL



F INSTANT WATER HEATER DETAIL
P1 N.T.S

SHEET NOTES

- DWV PIPING SHALL BE ABS PLASTIC
- COLD WATER SUPPLY SHALL BE TYPE L COPPER
- DWV PIPING:
MIN SLOPE 1/4" PER FOOT
MAY SLOPE 4" CI @ 1/8" PER FOOT
VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3FT. IN EVERY DIRECTION FROM ANY LOT LINE, ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF

BASED ON PC# 02-109635

REVISIONS		
NO	DATE	DESCRIPTION
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▲		
▲		
▲		

DATE: 08/06/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER: BAKERSFIELD CITY SCHOOLS
McKINLEY SCHOOL

2:12 PITCHED ROOF 24' x 40' RELOCATABLE BUILDINGS
ISOMETRIC PLANS & DETAILS

APPROVALS:



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02-111612
AC 12 FEB 2011
DATE 1/12/11

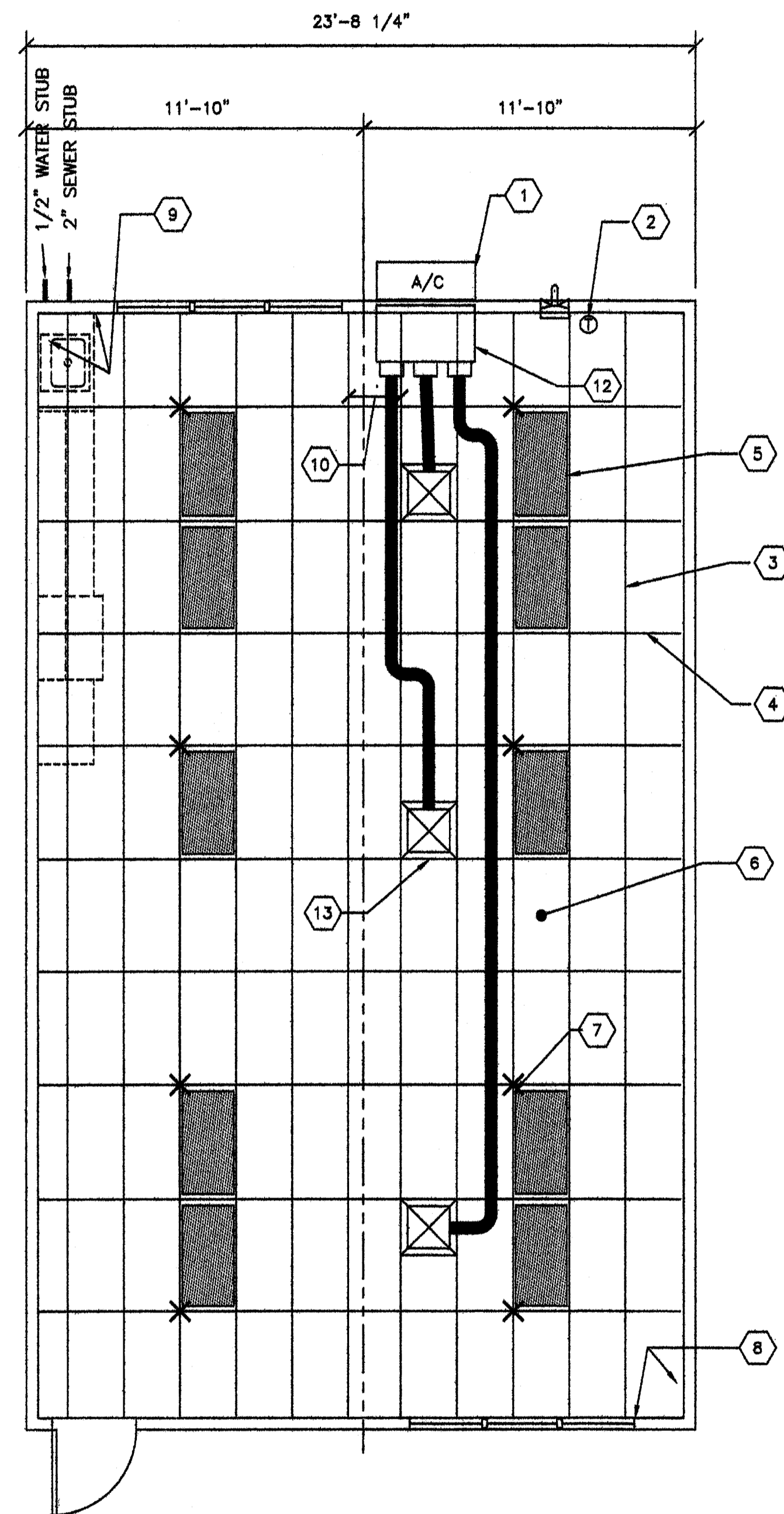
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- SHEET NOTES -

- 1 WALL HUNG HVAC UNIT
- 2 THERMOSTAT @ +60" SEALED
- 3 MAIN RUNNER TYP
- 4 CROSS RUNNER TYP
- 5 INTERIOR LIGHT FIXTURE
REFER TO SHEET SHEET E1 FOR SPEC'S
- 6 CEILING HEIGHT @ 8'-6" NOM
- 7 SPLAY WIRE
SEE 4/M2 FOR DETAILS
- 8 FIXED CEILING END
- 9 FREE CEILING END
- 10 CENTER SECTION THAT CROSSES
MODULE LINE TO BE FIELD INSTALLED
- 11 NOT USED
- 12 CONCEALED SUPPLY AIR DUCT
ABOVE T-BAR CEILING
- 13 TYPICAL 4-WAY SUPPLY AIR REGISTER
LOCATION AND SIZE MAY VARY PER
CEILING LAYOUT AND BUILDING SIZE

NOTE:
WHERE TWO OR MORE HVAC UNITS SERVE A
COMMON SPACE, UNITS SHALL BE EQUIPPED WITH
DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN.
INTERCONNECT WITH FIRE ALARM SYSTEM
AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN
ALL OCCUPIED ROOMS SERVED BY THE AIR
HANDLING EQUIPMENT HAVE DIRECT ACCESS TO
THE EXTERIOR AND THE TRAVEL DISTANCE
DO NOT EXCEEDS 100 FT
PER CMC 609 EXEPTION #2



2 TYPICAL REFLECTED CEILING PLAN
M1 1/4"=1'-0"

BASED ON PC 02-109695

REVISIONS		
NO	DATE	DESCRIPTION

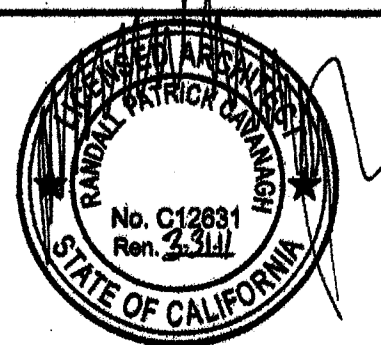
DATE: 06/15/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
**BAKERSFIELD CITY SCHOOLS
McKINLEY SCHOOL**

24' x 40' RELOCATABLE BUILDINGS
TYPICAL REFLECTED CEILING PLAN

AMS
American Modular Systems Inc.
757 Sprackele Ave. Manteca, CA 95336
(209)828-1921 Fax (209)828-7019
americanmodular.com

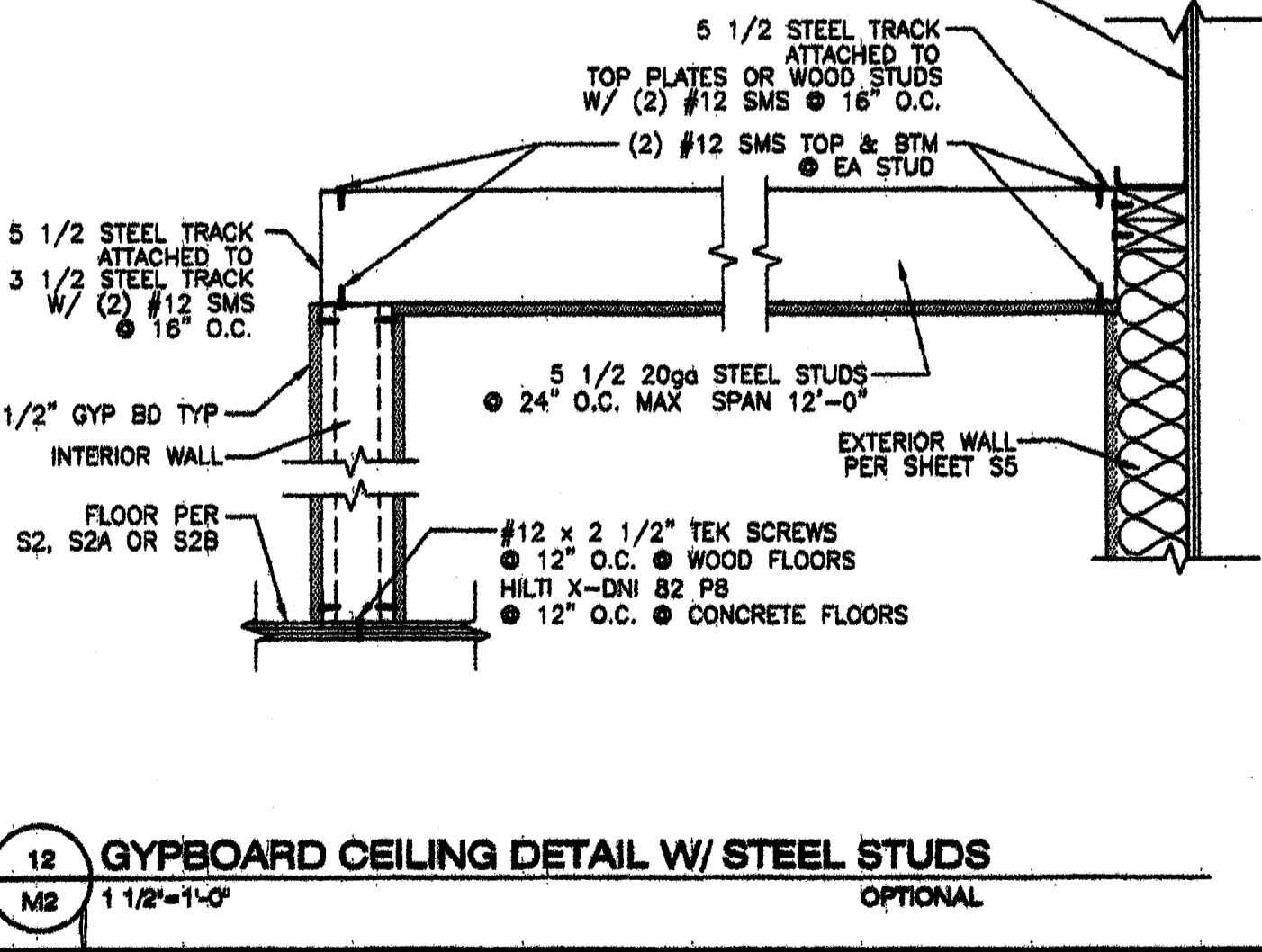
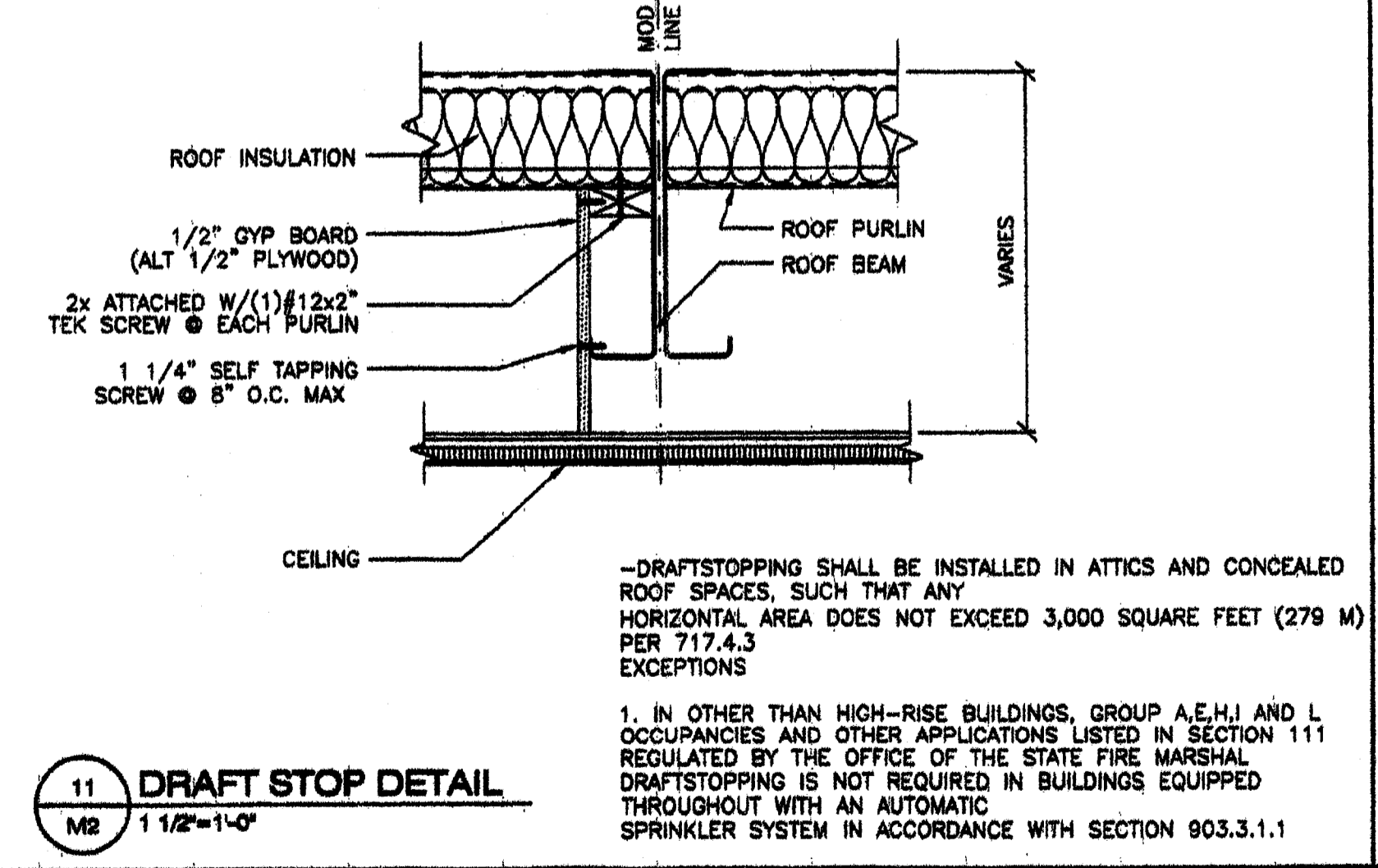
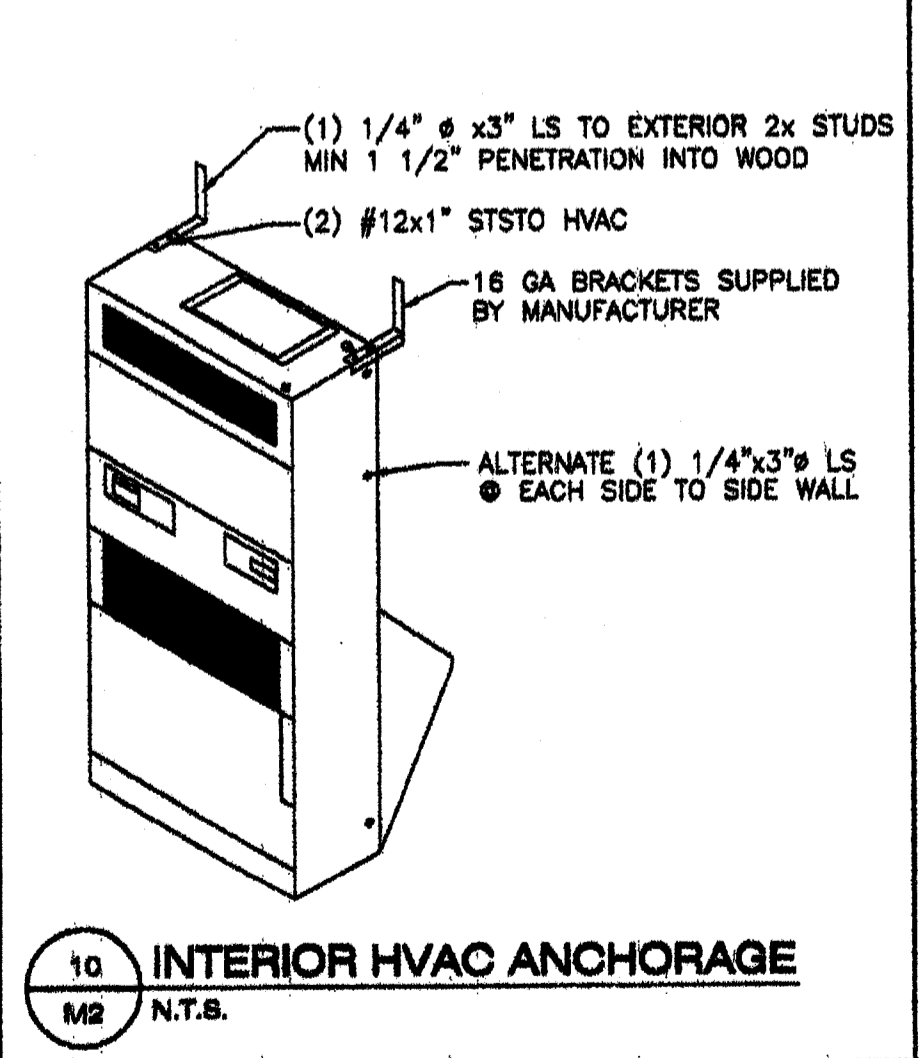
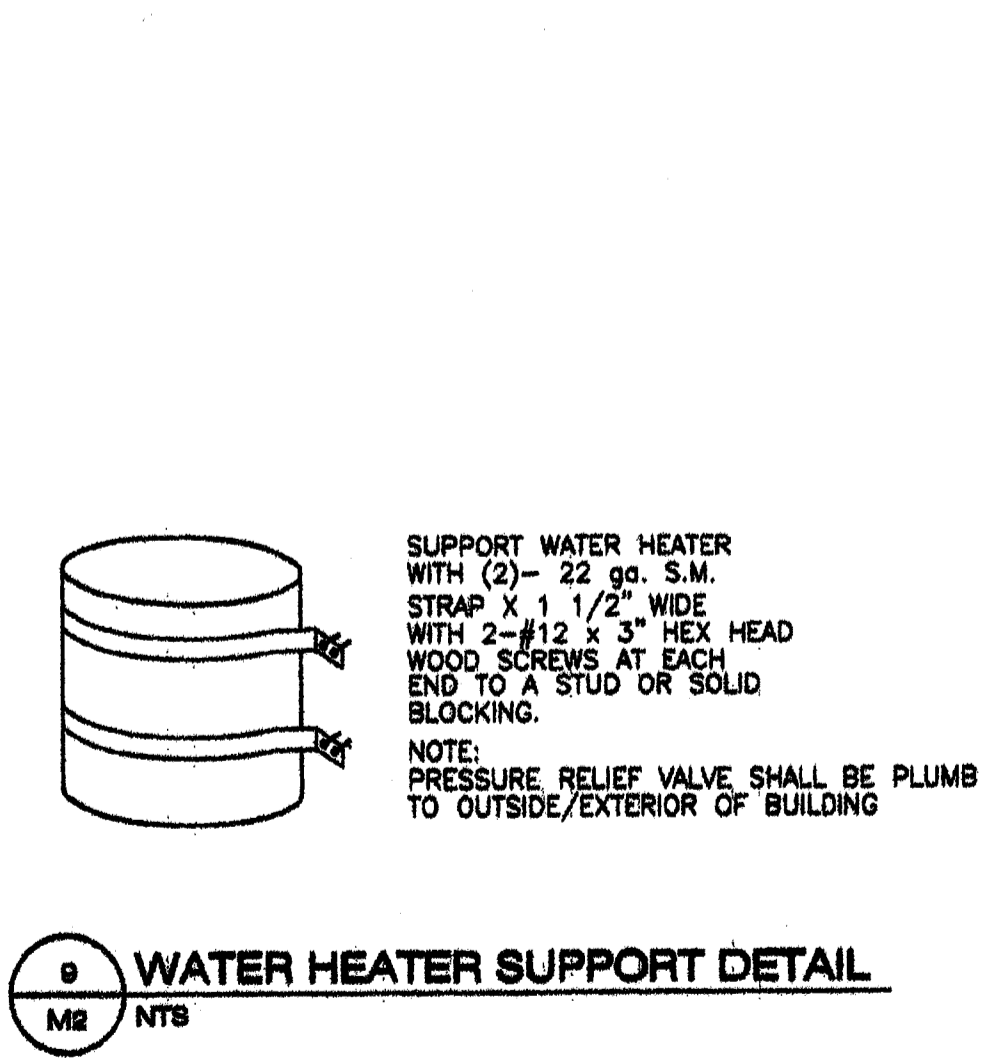
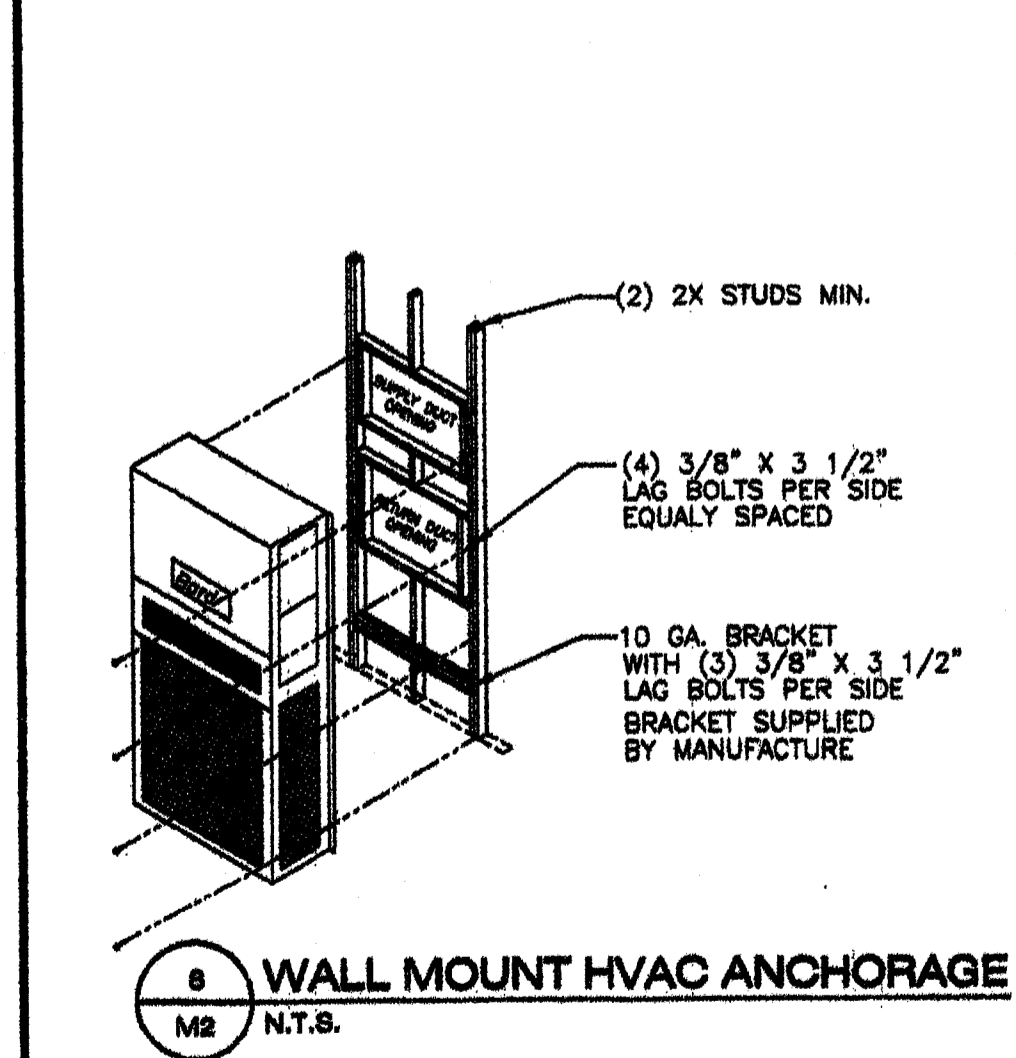
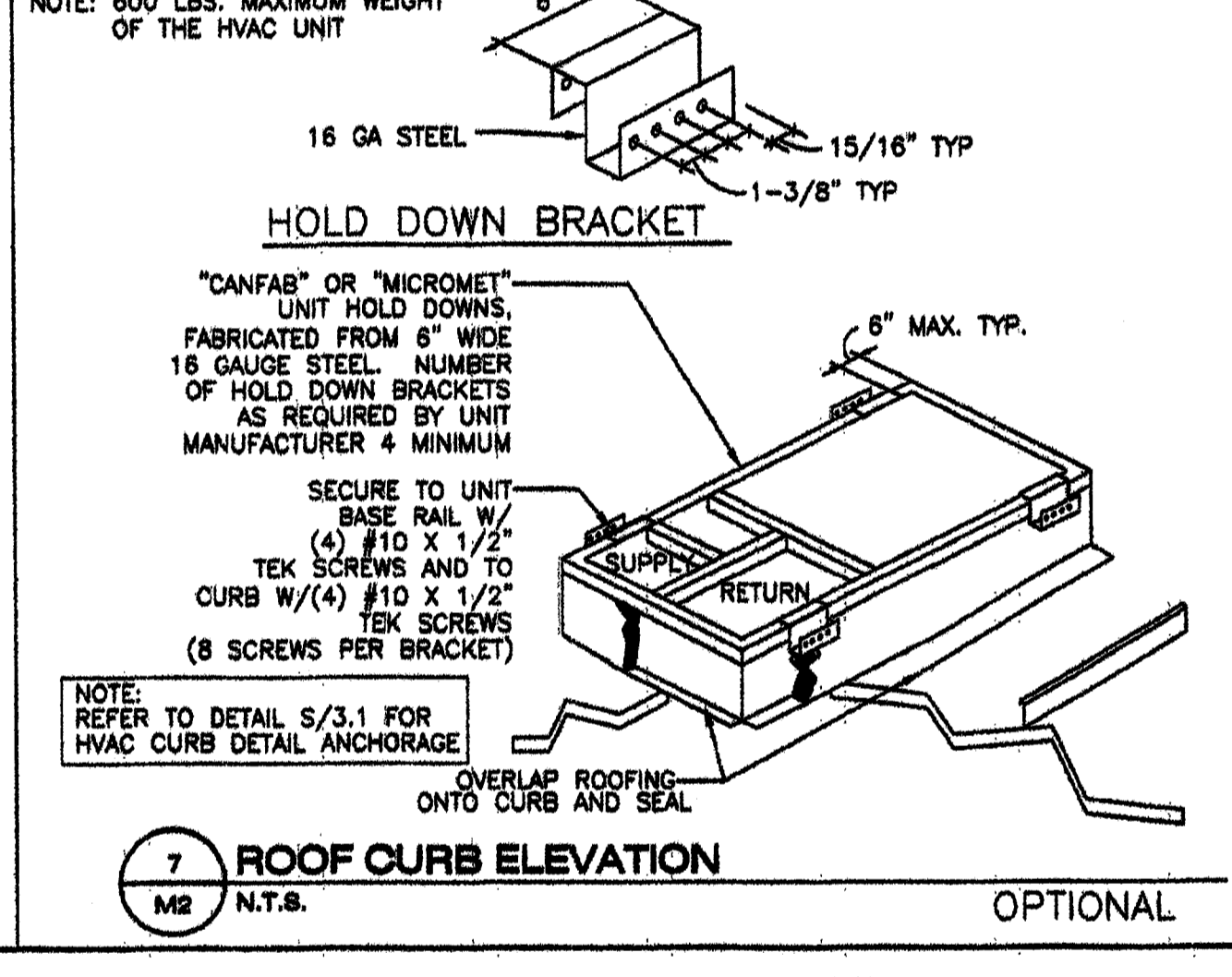
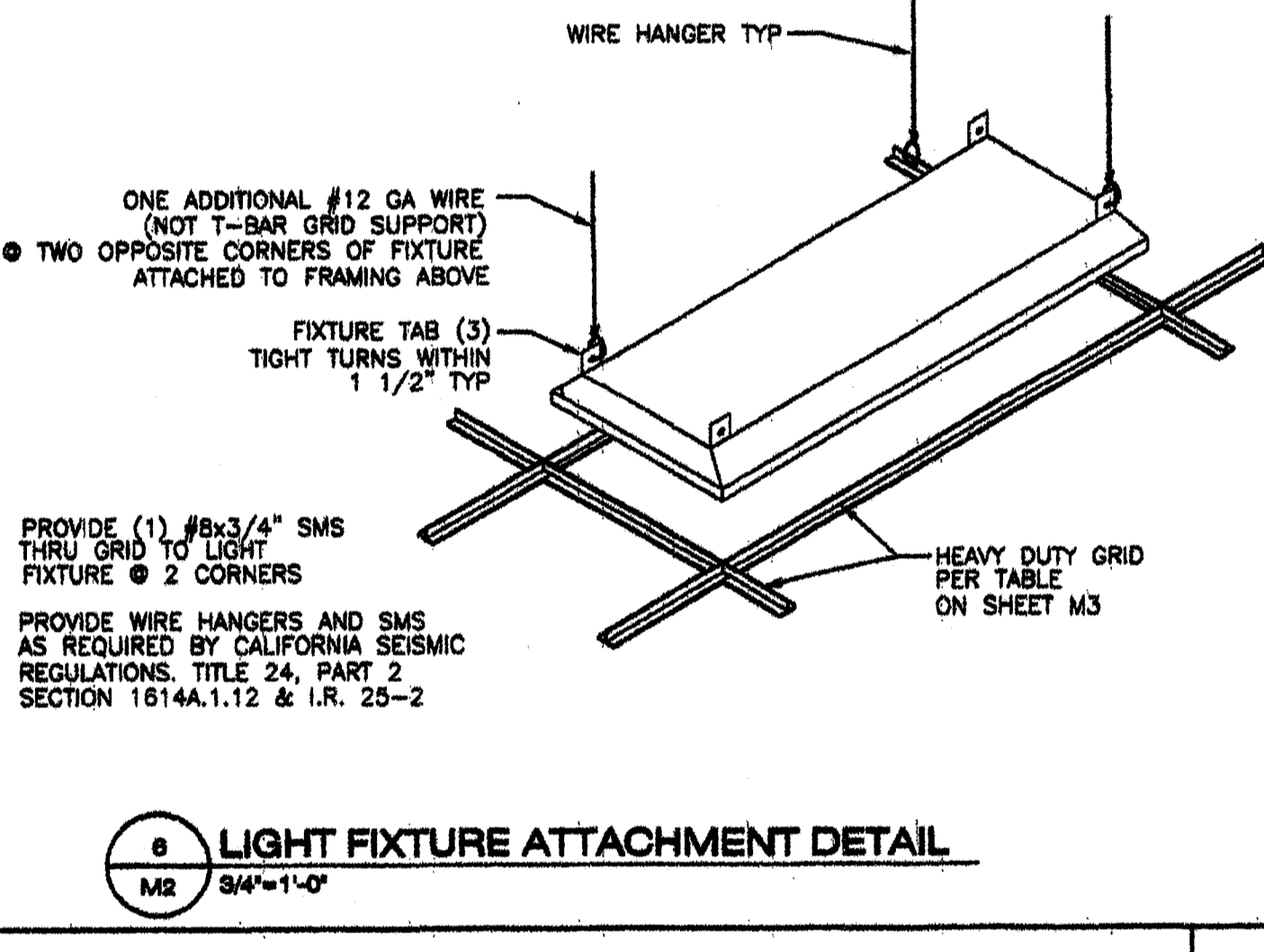
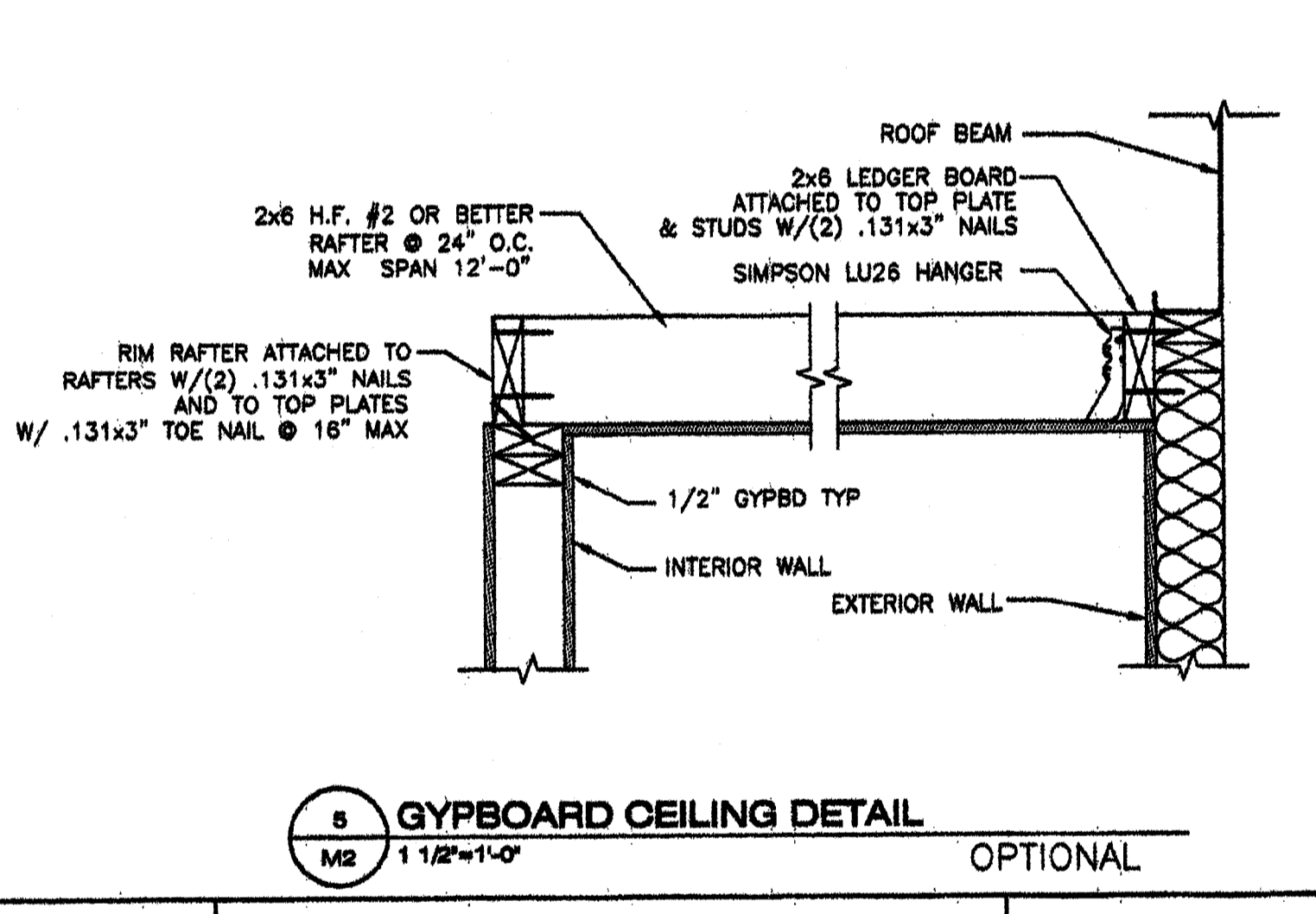
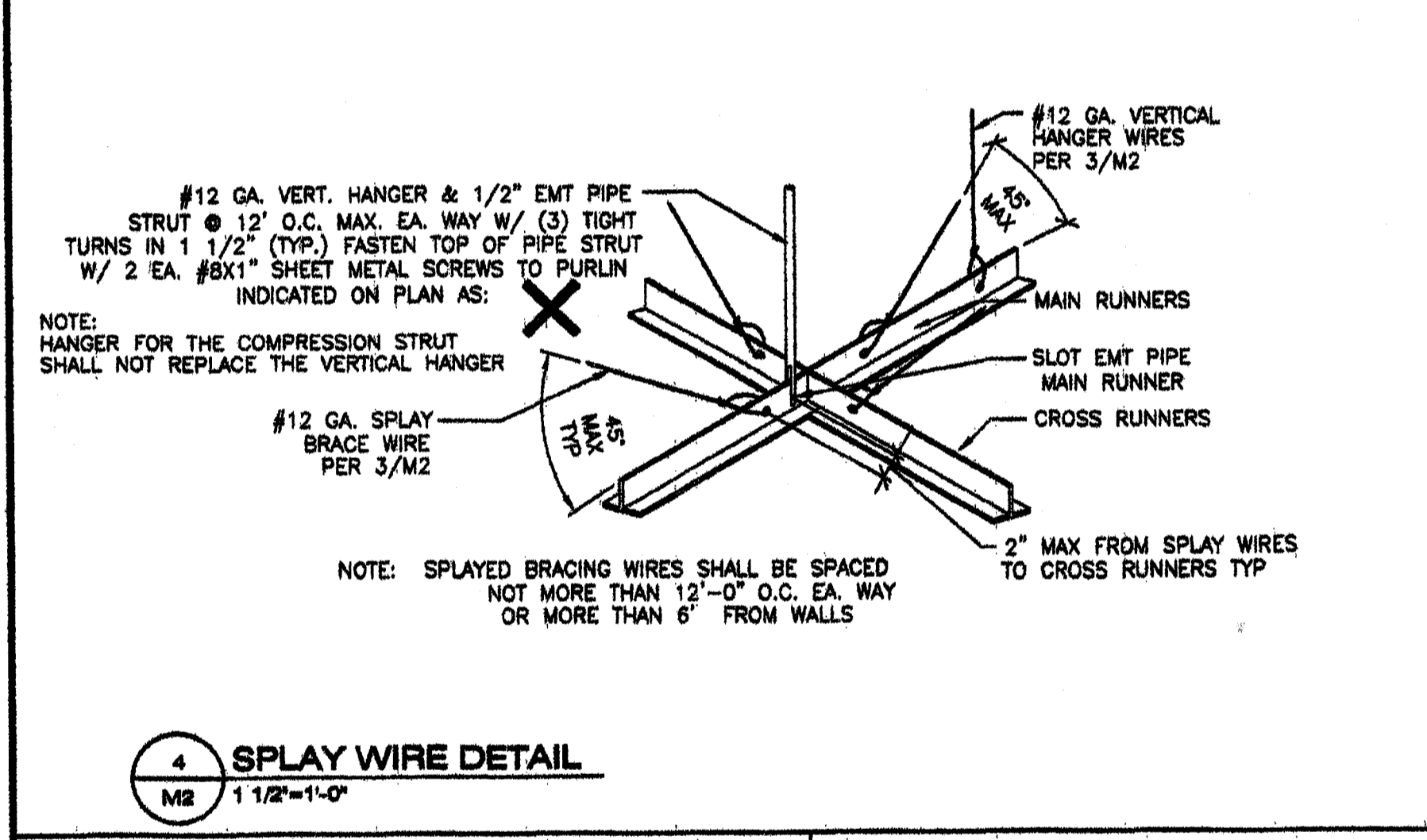
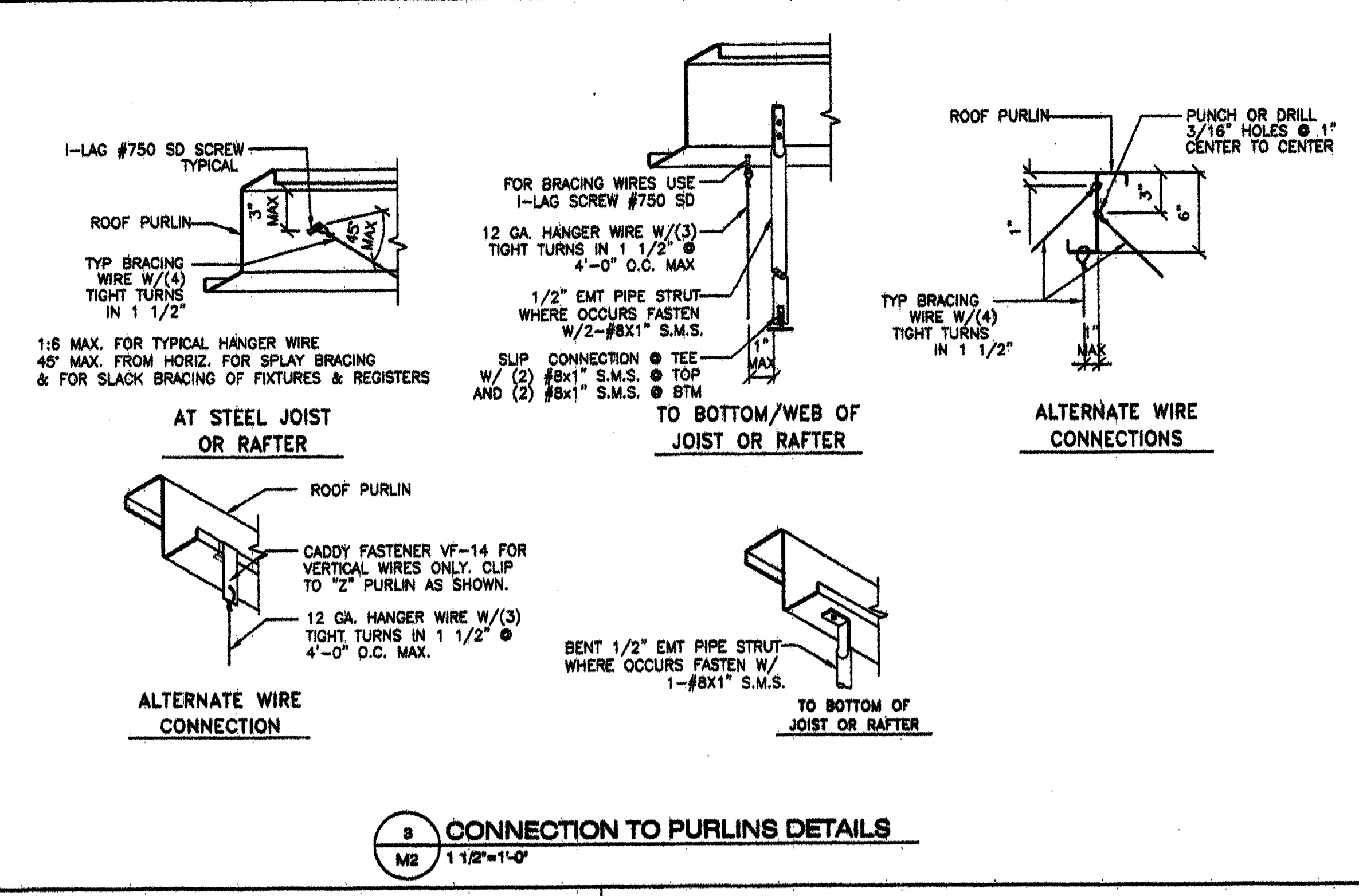
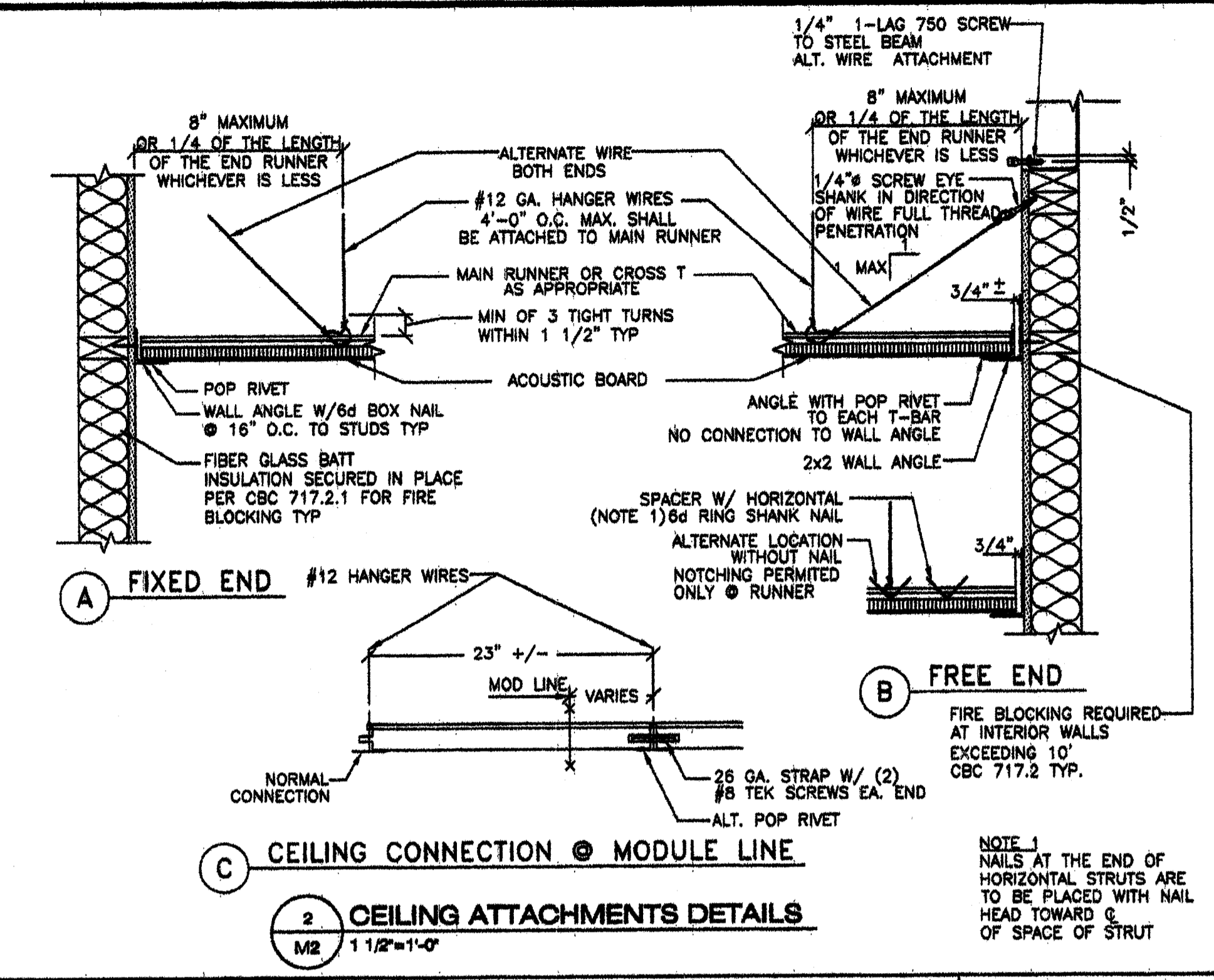
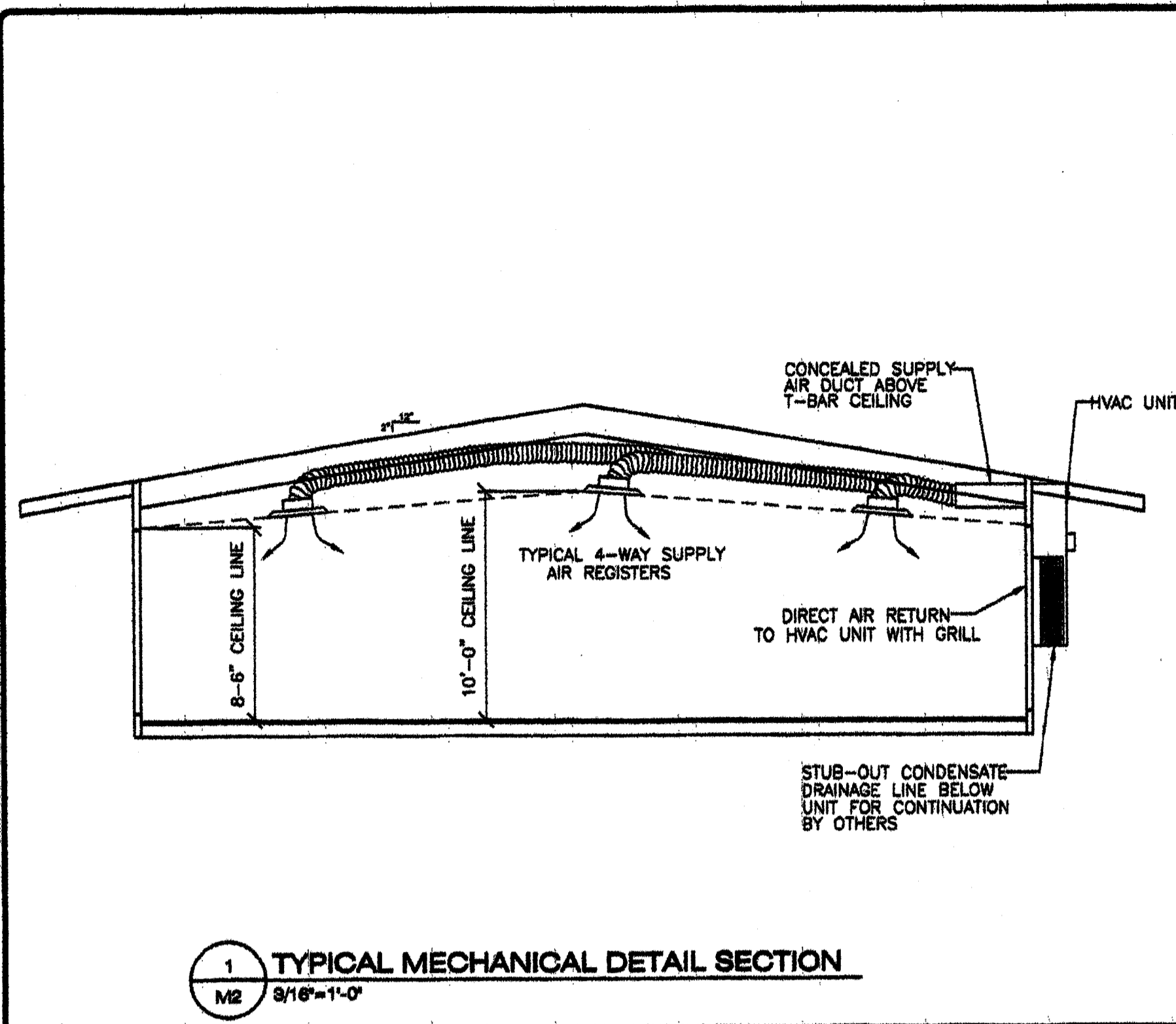
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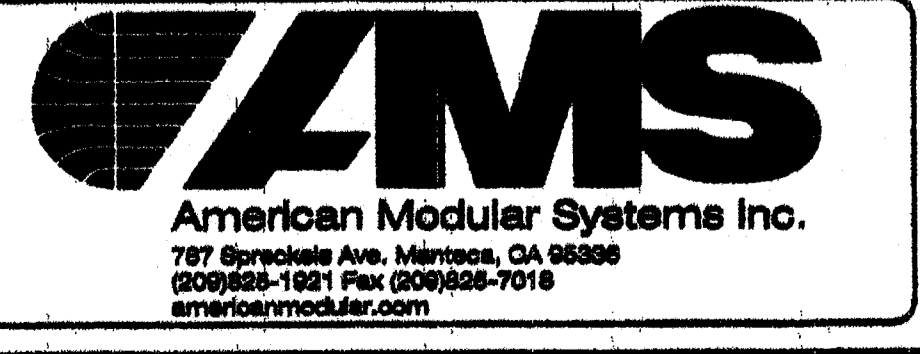
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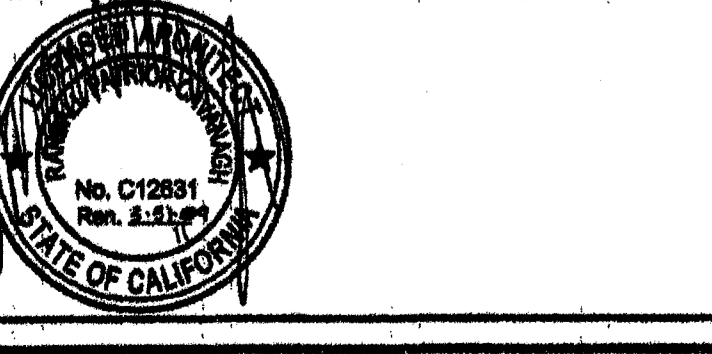
REVISIONS		
NO.	DATE	DESCRIPTION

DATE: 01/25/08
 SCALE: NOTED
 DRAWN BY: RL
 SERIAL NO.:

CUSTOMER:
 2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE CLASSROOMS
 MECHANICAL BUILDING SECTION & CEILING DETAILS



APPROVALS:



PROJECT No. PC
 02_111612
 DATE: 1/21/08
 M2

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

- 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
 - PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
 - PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 8 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
 - CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
 - AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
 - PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
 - FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS
- THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
 - SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.,
 - ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES.
 - FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
 - CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" CHICAGO METALLIC, OR DOWN(USG) PER ASTM C635 MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL #200-01 OR DX26. MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER CHICAGO METALLIC 1214-01 OR DOWN DX 416 CROSS TEES. MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A. ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" x 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4" CROSS TEE	H.D. 2" CROSS TEE
DOWN/USG	DX-26	DX-24	DX-21B
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200-01	1204-01	1228-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

HVAC CFM CHART

MODEL NUMBER	DESCRIPTION	MAX. CFM	UNIT WEIGHT LBS.
WH421-A	3 1/2 TON HEAT PUMP	1400	530
WH482-A	4 TON HEAT PUMP	1550	560
WH602-A	5 TON HEAT PUMP	1700	560

GENERAL NOTES

- HEATING VENTILATING AND AIR CONDITIONING (HVAC)
- HEAT PUMP: SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARD 240-77.

REFERENCE BRANDS: BARD WH421-A000000X
BARD WH482-A000000X
BARD WH602-A000000X

MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT

ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE AND MEET CURRENT ENERGY STANDARDS.

A.) THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER

B.) THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE THIRD FRESH AIR.
 - DUCTWORK.

A.) CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.

B.) NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE.

REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE, TYPE 475.

NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
 - AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
 - SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAX. 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTANTEED, OR EQUAL AND 90- B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
 - REGISTERS AND DIFFUSERS: PROVIDE THREE (MIN) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED CARNES, TITUS, HART AND COOLEY, METALAIR, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS
 - AIR CONDITIONING CONTROLS. THERMOSTAT: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS.
 - 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING WITH 4 SEPARATE TIME/TEMPERATURE SETTING FOR 24-HOUR PERIOD.
 - KEY BOARD LOCKOUT SWITCH.
 - PROGRAMMABLE DISPLAY.
 - 2-HOUR OVERRIDE MINIMUM.
 - STATUS INDICATED LED'S.
 - BATTERY BACK-UP.

PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODERS #F92-371, MOUNT @ +60" w/COVER (SEALED-SETTING ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.) +48" UNSEALED.
 - THERMAL INSULATION.
 - ROOF INSULATION: R-19 UNFACED.
 - WALLS INSULATION: R-13 KRAFT FACED.
 - FLOORS INSULATION: CONCRETE FLOOR

FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 719.
 - FACTORY-MADE AIR DUCTS. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.M.C. STANDARD NO. 6-1. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH U.M.C. STANDARD NO. 6-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF UMC STD. 6-1.

DUCT SUPPORT
FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE X 26 GA. GALV. STRAP @ MAX 6'-0" O.C. ATTACH TO RAFTER W/2 #8 SMS @ EACH END.
SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE X 26 GA. GALV. STRAPS MIN. 2 PER PLENUM.
SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX W/2 #8 SMS.

- FIREBLOCKING: SHALL BE PROVIDED IN THE FOLLOWING LOCATION
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL. SEE CBC SECTION 717.2

INSULATION SCHEDULE

ZONE	WALL	ROOFS	FLOORS
1-14 & 16	R -13	R -19	R -13
15	R -13	R -30	R -13

HVAC SCHEDULE

BUILDING SIZE	# OF HVAC		
	3 1/2 TON HVAC	4 TON HVAC	5 TON HVAC
24' x 40'	1		
36' x 40'		1	
48' x 40'	2		
60' x 40'		2	
72' x 40'			2
84' x 40'			2
96' x 40'		3	
108' x 40'			3
120' x 40'			3

REVISIONS

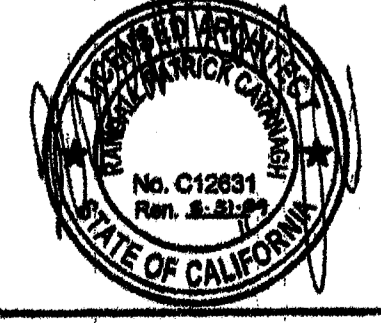
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DATE: 12/02/04
SCALE: NOTED
DRAWN BY: RL
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE CLASSROOMS
CEILING & MECHANICAL NOTES

AMS
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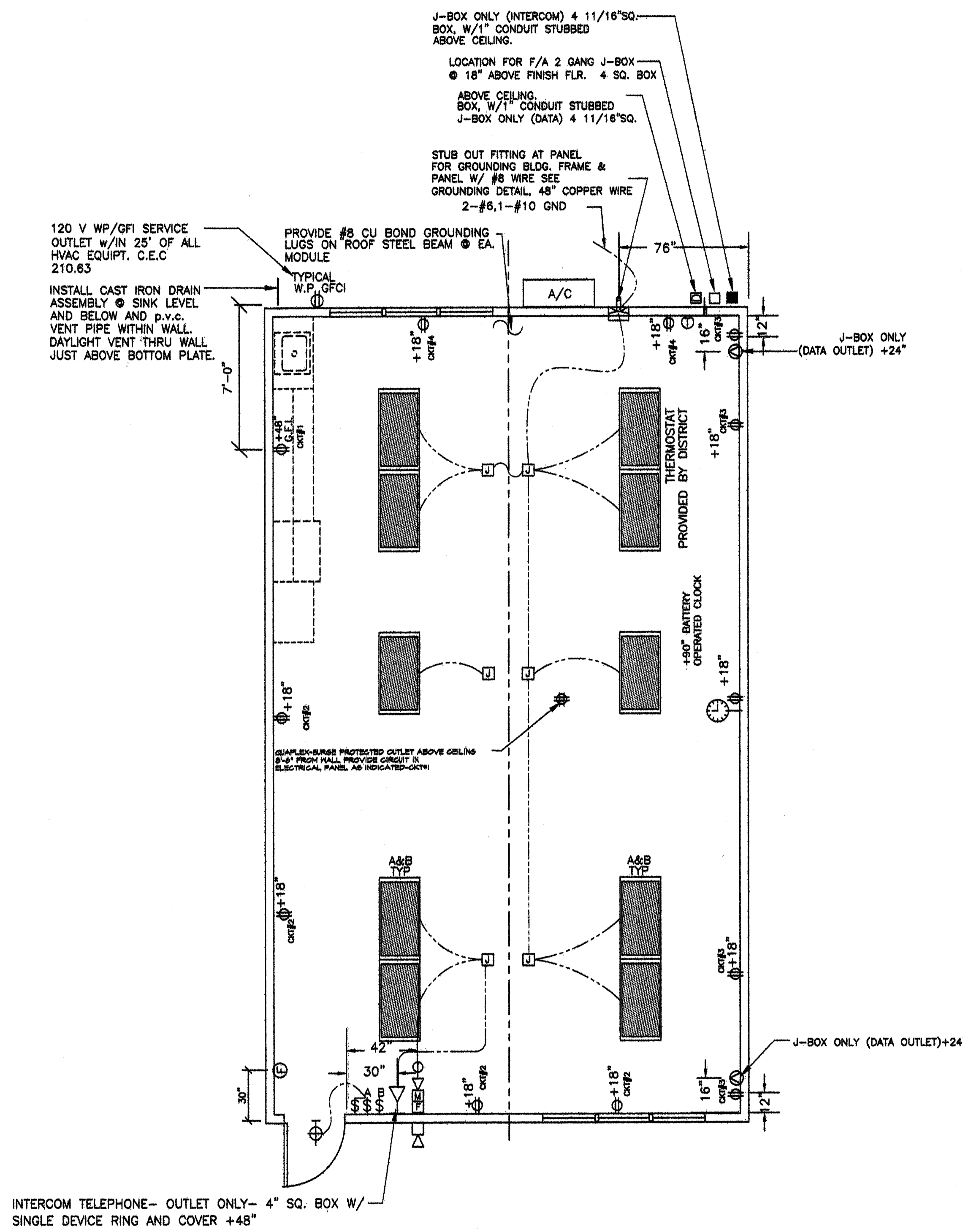
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2 TYPICAL ELECTRICAL PLAN
E1 1/4"=1'-0"

STANDARD ELECTRICAL SYMBOLS

	EXIT LIGHT WHEN THE OCCUPANT LOAD IS 50 OR MORE
	INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE
	DUPLEX WALL CONVENIENCE OUTLETS ● +18" TO CENTER LINE ABOVE F.F. AND 12'-0" MAX TYP U.O.N.
	FOURPLEX WALL OUTLET ● +18" TO CENTER LINE U.O.N.
	WEATHER PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET
	GFCI GROUND FAULT CIRCUIT INTERRUPT OUTLET
	SINGLE POLE LIGHT SWITCHES ● +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
	ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"x1"; #22 +x2"
	CLOCK/SPEAKER COMBO ● +90"
	SWITCH SUBSCRIPTS - α=DEVICE CONTROLLED.
	JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
	SPEAKER- OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
	DATA/COMMUNICATION OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48" U.O.N. AND A 3/4" CONDUIT STUB CEILING SPACE.
	INTERCOM TELEPHONE- OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48" U.O.N.
	MOTION SENSOR OUTLET STUB-UP -PROVIDE (1)4" SQ. BOX W/ SINGLE DEVICE RING AND COVER AND ONE 3/4" CONDUIT STUB TO ABOVE CEILING (DEVICES BY OTHERS)
	SECURITY/INTRUSION KEY PAD - OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER ● +48" AND ONE 3/4" CONDUIT STUB ABOVE CEILING
	DOOR CONTACT - PROVIDE (1) EMPTY 1/2" EMT THROUGH DOOR HEADER STUB ABOVE CEILING
	CATV OUTLET STUB-UP -PROVIDE (1)4" SQ. BOX W/ SINGLE DEVICE RING AND COVER AND(1) 3/4" CONDUIT TO ABOVE CEILING (DEVICES BY OTHERS)
	FIRE ALARM PULL STATION - OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48". (DEVICE N.I.C.)
	FIRE ALARM HORN - OUTLET ONLY - 4" SQ. SINGLE GANG J-BOX WITH BLANK WEATHERPROOF COVER ● +90" MIN (DEVICE N.I.C.)
	FIRE ALARM VISUAL ALARM- OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +80". A.F.F. BUT NO GREATER THAN +96". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).
	MINI HORN BOX W/ SINGLE DEVICE RING AND COVER ● +80"A.F.F. BUT NO GREATER THAN +96". STUB TO ATTIC
	THERMOSTAT ● +60" SEALED, +48" A.F.F UNSEALED
	ULTRASONIC OCCUPANCY SENSOR
	ELECTRICAL PANEL
	EMERG. LIGHTING W/BATTERY BACKUP WHEN THE OCCUPANT LOAD IS 50 OR MORE

NOTE:
AT ANY SPACE REQUIRING 2 OR MORE
EXITS PROVIDE EXIT SIGNS (CBC 1011)
AND EMERGENCY EXIT ILLUMINATION
(CBC 1006)

NOTE:
THE PROJECT ARCHITECT SHALL BE
RESPONSIBLE FOR THE PLACEMENT OF
HEAT, SMOKE DETECTORS AND PULL STATIONS
WHEN THE SITE SPECIFIC PROJECT IS
REQUIRED TO MEET THE PROVISIONS OF
SB 575 & CBC 907.2.3

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2'X4' FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. T-8 ELECTRONIC BALLASTS (3)32 WATT TUBES, WT. 27 LBS.	SP41 32 W	CRESCENT 24GP40HFS1158YF2 OR LITHONIA 2GT440A12120ESPWS1846LPESCW
	FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & POSIGRIP STAINLESS STEEL SCREWS. (PROVIDE EMERGENCY BATTERY BACK-UP WHEN THE OCCUPANT LOAD IS 50 OR MORE)	(2) 7W TT 2700 K	ENERTRON 7026B-L OR EQUAL

- ### - GENERAL NOTES -
- F.A. : STUB-UP ALL
FIRE ALARM JUNCTION BOXES
TO ACCESSIBLE ATTIC SPACE
WITH 1/2" MIN. GALV. THIN
WALL TUBING (EMT).
DO NOT CONNECT FIRE ALARM
CONDUIT WITH ANY OTHER
ELECTRICAL CONDUIT
 - IF OPTIONAL DOOR OCCURS A PULL STATION
J-BOX AND EXIT SIGN ARE REQUIRED.
PULL STATIONS ARE REQUIRED @ EVERY EXIT
 - STUB OUT LOCATIONS FOR ELECTRICAL
PANEL, FIRE ALARM, AND DATA BOXES
SHOWN ARE DIAGRAMITICAL ONLY
EXACT LOCATIONS MAY VARY +/- SEVERAL
FEET. PLEASE CONTACT AMERICAN MODULAR
SYSTEMS FOR EXACT LOCATIONS.
POINT OF CONNECTION WILL BE AT
FACE OF BUILDING.
 - SEE TYPICAL CLASSROOM LAYOUT
FOR LOCATIONS OF ALL DEVICES.
FIXTURE MOUNTING SHALL COMPLY WITH
CALIFORNIA SEISMIC REGULATIONS.
 - THE LIGHTS FOR EACH ROOM OVER 250' SQ FT
SHALL BE CONTROLLED BY ULTRASONIC
OCCUPANCY SENSOR. WATT STOPPER W-500A,
W-1000A, OR W-2000A (OR EQUAL) BASED ON
THE ROOM SIZE IN CONJUNCTION WITH BI-LEVEL
SWITCHING.

BASED ON PC 02-109695

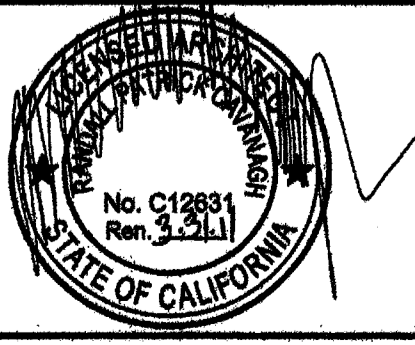
REVISIONS		
NO	DATE	DESCRIPTION

DATE: 08/06/10
SCALE: NOTED
DRAWN BY: RS/MP
SERIAL NO.:

CUSTOMER:
BAKERSFIELD CITY SCHOOLS
McKinley School

2:12 PITCHED ROOF 24' x 40' RELOCATABLE BUILDINGS
TYPICAL ELECTRICAL PLAN

APPROVALS:



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
AC. [Signature]
DATE: 11/2/11

PROJECT NO.
E1

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- GENERAL NOTES -

FIRE ALARM SYSTEM

- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, & CA. FIRE CODE.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
- 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 ENFORCING AGENCY.
- JUNCTION BOXES- GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL AT +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
- COVERS- INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL REGULATIONS (CBC 907.2.3) AND THE 2002 EDITION OF NFPA 72.
- THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
- ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 7.4.2)
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 7.5)
- AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY STATE FIRE MARSHAL. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFEX OR ULUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BY ARRANGED BY OWNER.
IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 10db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY PER [CBC].

GENERAL NOTES

- GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
- PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
- PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

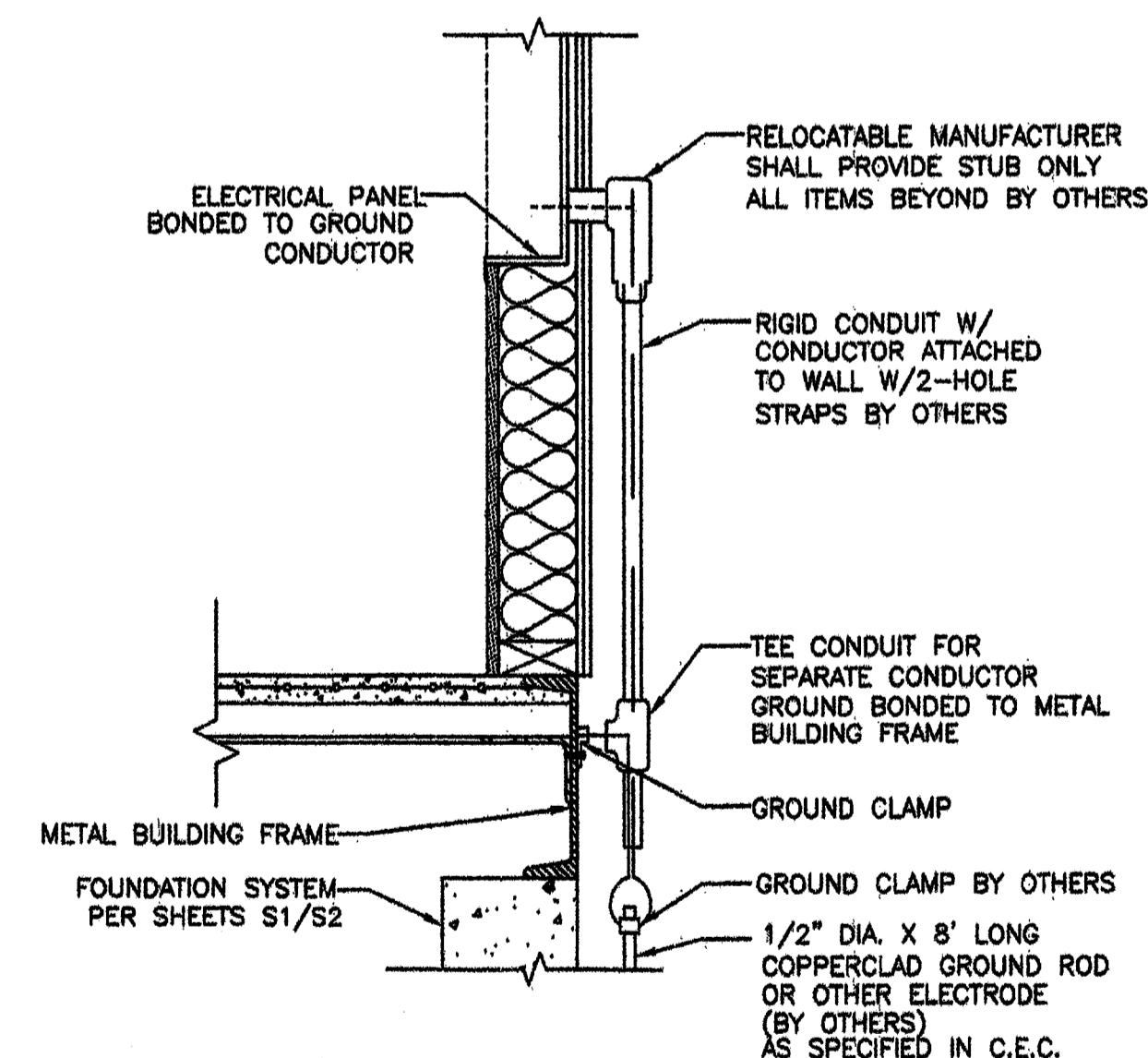
FIXTURE NOTES:

- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
 - LUMINATES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
 - FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
- ELECTRICAL**
- ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
 - MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
 - ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING. SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
 - 2X4 FLUORESCENT FIXTURES SHALL BE STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-12, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE .125 INCH.
 - FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACED FROM INSIDE THE FIXTURE.
 - CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
A) CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
B) CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPERABLE HANGING CLIP & APP'D RECEIPT.
- THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING. IF 60 DEGREES C. WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY BE PROVIDED ON THE DRAWING.

VOLTS: 120/240 SINGLE PHASE		PANEL: A		FEED: EXTERIOR LB	
MAIN: 100 AMP MAIN BKR.		LOCATION: INTERIOR		MOUNTING: FLUSH	
LOAD	WATTS		BRK.		LOAD
	A	B	A	B	
LIGHTS, FLUORESCENT	960	15	1	1	A/C HVAC UNIT
LIGHTS, FLUORESCENT	960	15	1	3	
EXTERIOR LIGHT & CLOCK	100	15	1	5	SPACE
DUPLEX RECEPT.	720	15	1	7	
DUPLEX RECEPT.	720	15	1	9	
SPACE				11	
				12	
				13	
				14	
				15	
				16	
PHASE WATTAGE	1880	1680			4476 4476 PHASE WATTAGE
TOTAL WATTS "A" LEG: 6556	TOTAL WATTS A+B=2743		TOTAL WATTS "B" LEG 6156		
TOTAL WATTS: 15455	65	AMPS	120/240V	SINGLE PHASE	100AMP BUS.

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY NFPA 72 4.4.1.4.2.1



SIZE OF CONDUCTORS SHALL COMPLY W/CEC. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC). ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

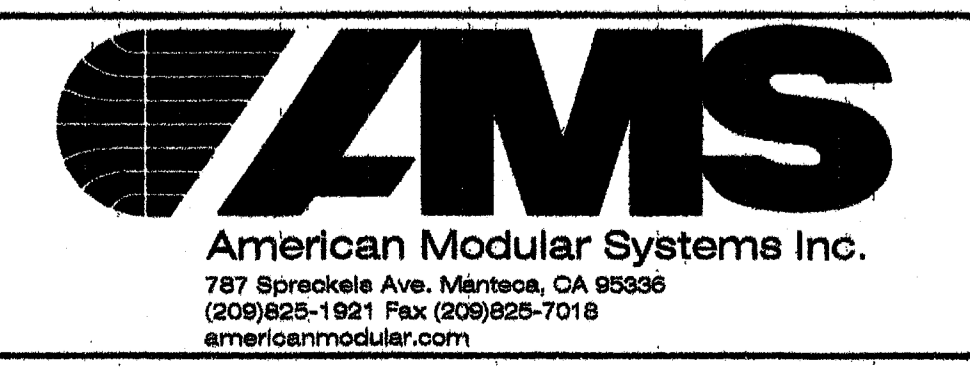
1 GROUNDING DETAIL
E2 1 1/2"=1'-0"

BASED ON PC# 02-109685

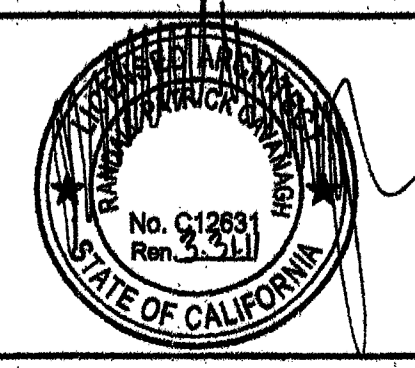
REVISIONS		
NO.	DATE	DESCRIPTION

DATE: 08/16/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER: BAKERSFIELD CITY SCHOOLS
24' x 40' RELOCATABLE BUILDINGS
ELECTRICAL NOTES & DETAILS



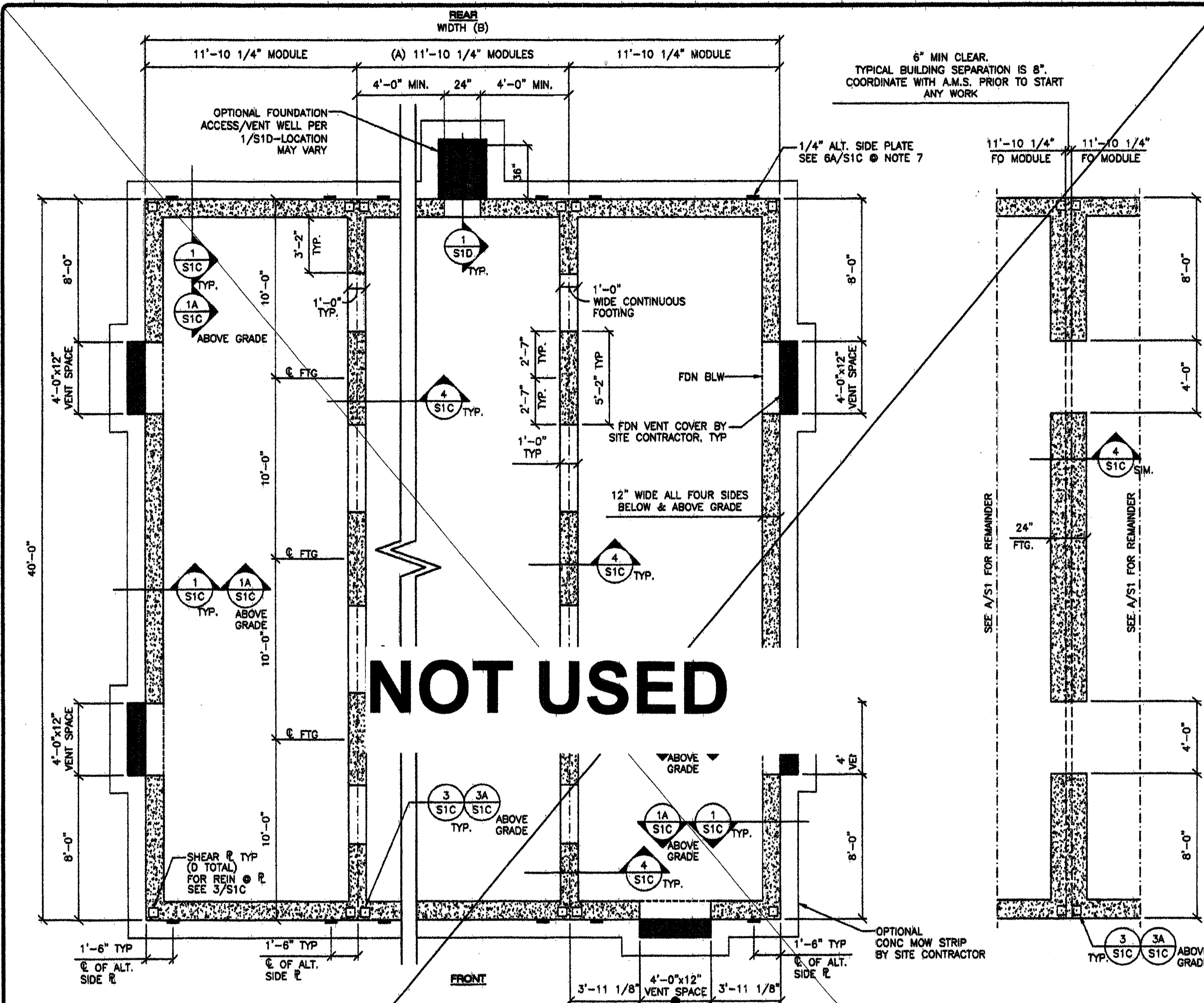
APPROVALS:



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
DATE: 1/2/11

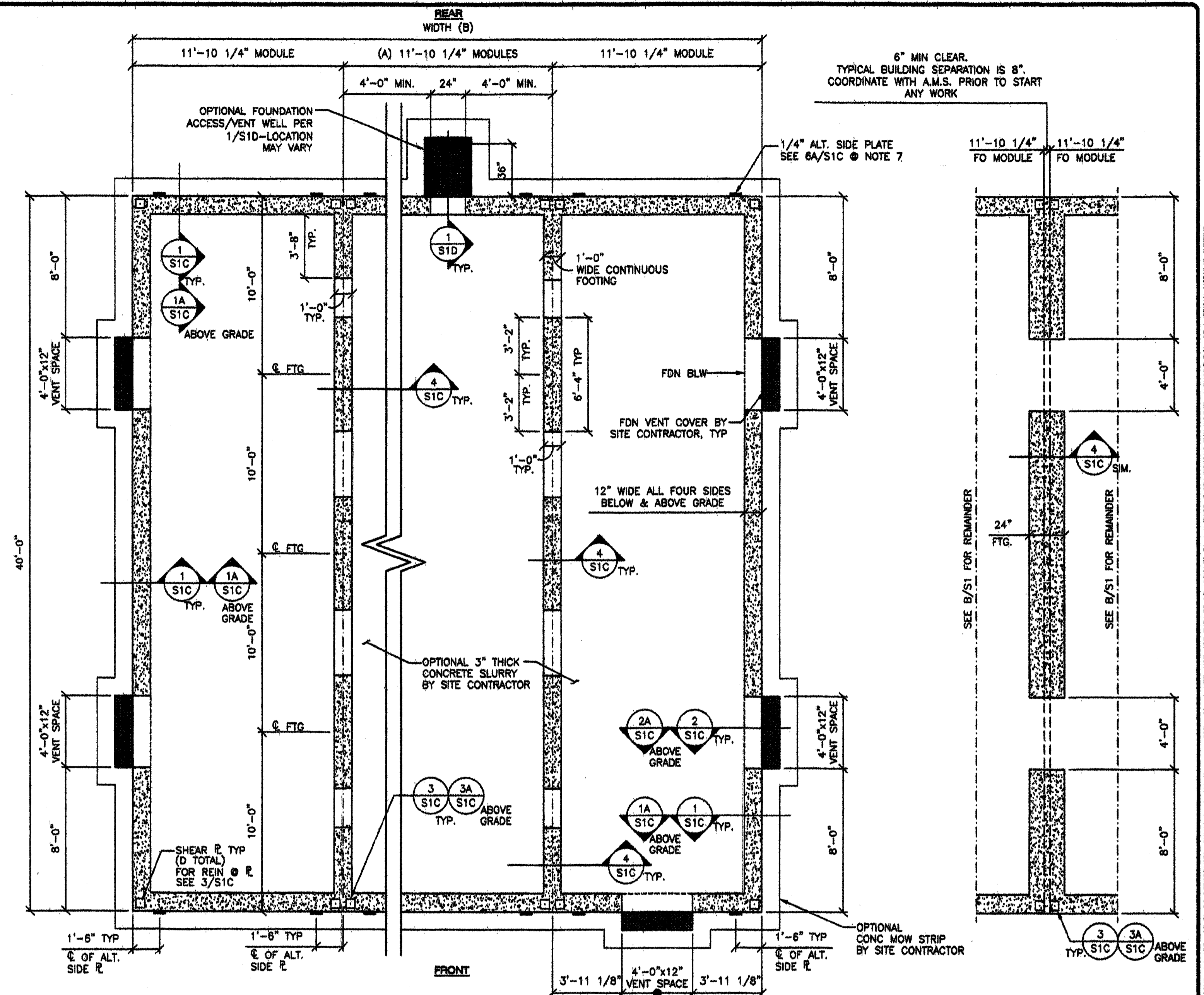
PROJECT NO.
PC
E2

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A FOUNDATION PLAN (PLYWOOD OR VIROC FLOOR)
S1 1/4x1-0 (50 PSF LIVE LOAD)

A1 FOUNDATION PLAN
S1 1/4x1-0 COMBINED



B FOUNDATION PLAN (PLYWOOD OR VIROC FLOOR)
S1 1/4x1-0 (50 PSF LIVE LOAD W/15 PSF PARTITION LOAD)

B1 FOUNDATION PLAN
S1 1/4x1-0 COMBINED

NOT USED

MODULE SCHEDULE

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL BLDG WIDTH	TOTAL FLOOR AREA (FT ²)	MIN. TOTAL # 4'x12' VENTS REQ'D	VENT AREA (FT ²)	VENT AREA PROVIDED (FT ²)	TOTAL # OF TYPICAL SHEAR PLATES
24x40	2	0	23'-8 1/2"	960	4	8.4	16.0	8
36x40	3	1	35'-6 3/4"	1440	4	9.6	16.0	12
48x40	4	2	47'-5"	1920	4	12.8	16.0	16
60x40	5	3	59'-3 1/4"	2400	4	16.0	16.0	20
72x40	6	4	71'-1 1/2"	2880	5	19.2	20.0	24
84x40	7	5	82'-11 3/4"	3360	6	22.4	24.0	28
96x40	8	6	94'-10"	3840	7	25.6	28.0	32
108x40	9	7	106'-8 1/4"	4320	8	28.8	32.0	36
120x40	10	8	118'-6 1/2"	4800	8	32.0	32.0	40
132x40	11	9	130'-4 3/4"	5280	9	35.2	36.0	44
144x40	12	10	142'-3"	5760	10	38.4	40.0	48

MODULE SCHEDULE

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL BLDG WIDTH	TOTAL FLOOR AREA (FT ²)	MIN. TOTAL # 4'x12' VENTS REQ'D	VENT AREA (FT ²)	VENT AREA PROVIDED (FT ²)	TOTAL # OF TYPICAL SHEAR PLATES
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144x40	12	10	142'-3"	5760	10	38.4	40.0	48

- NOTES:**
- DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.
 - ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 2500 PSI MIN. PROPORTIONED PER TITLE 24, PART 2, SECTION 1905A.3 OR 1905A.4
 - THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1916A.2 IF CONCRETE WITH A COMPRESSIVE STRENGTH OF 3500 PSI IS SPECIFIED THEN THE TESTING OF THE REINFORCING BARS MAY BE WAIVED PER SECTION 1916A.4. THE CEMENT SHALL BE CERTIFIED PER SECTION 1916A.1
 - REINFORCING STEEL 40,000 PSI MINIMUM, PER ASTM A615
 - MINIMUM SOIL BEARING CAPACITY 1500 PSF.
 - DESIGN SOIL BEARING CAPACITY 1500 PSF.
 - ALTERNATE SIDE PLATES MUST COMPLETELY REPLACE TYPICAL SHEAR PLATES ALONG ANY ONE MODULE LINE (4 ALTERNATE SIDE PLATES @ INTERIOR MODULE LINE AND 2 ALTERNATE SIDE PLATES @ EXTERIOR MODULE LINE.) COMBINATION OF TYPICAL SHEAR PLATES AND ALTERNATE SIDE PLATES ALONG ANY ONE MODULE LINE IS NOT PERMITTED.

- NOTES:**
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REVISIONS

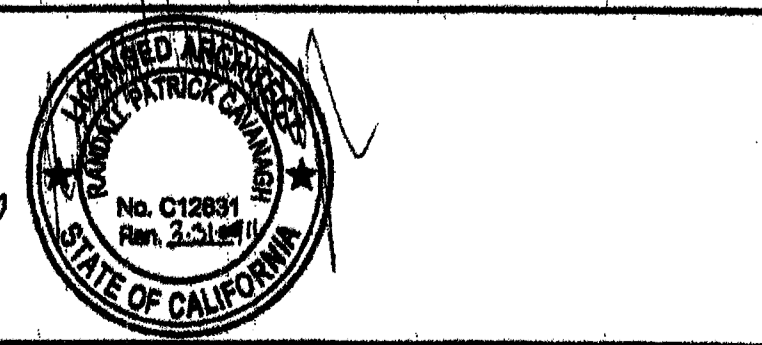
NO	DATE	DESCRIPTION

DATE: 02/13/09
SCALE NOTED
DRAWN BY: RL
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS
CONCRETE FOUNDATION PLAN 50 P.S.F LIVE LOAD
& 50 P.S.F LIVE LOAD + 15 P.S.F PART. LOAD FLOOR



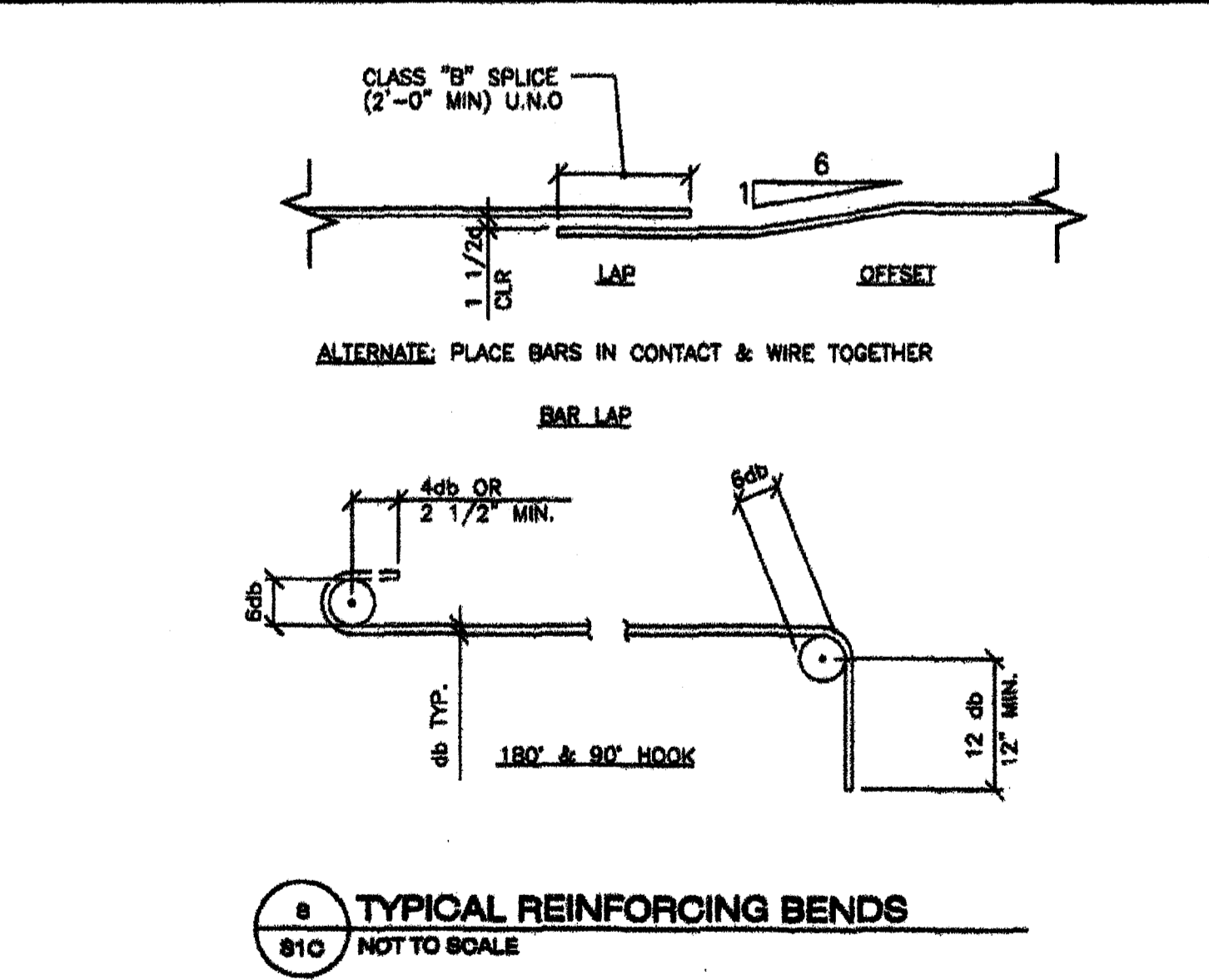
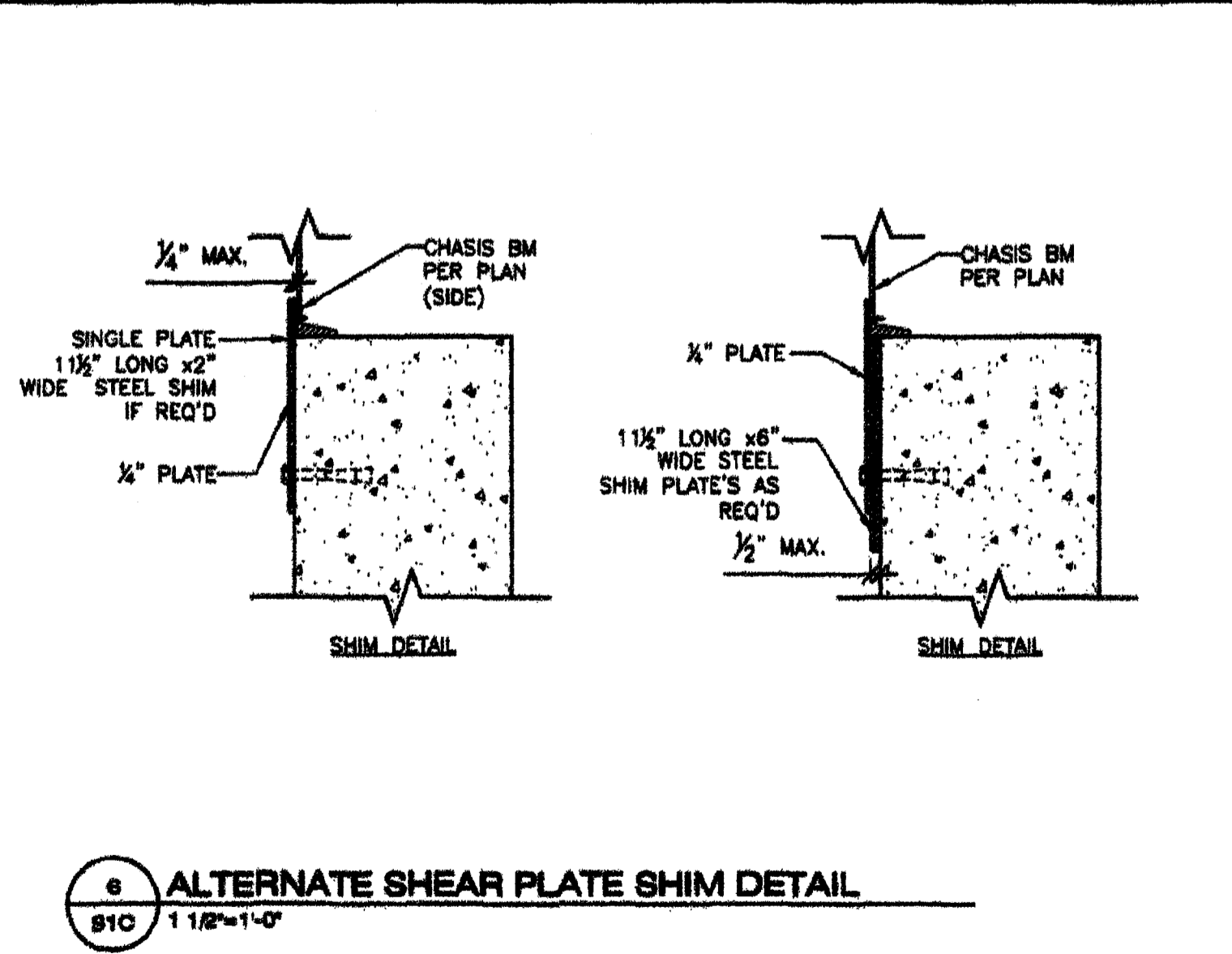
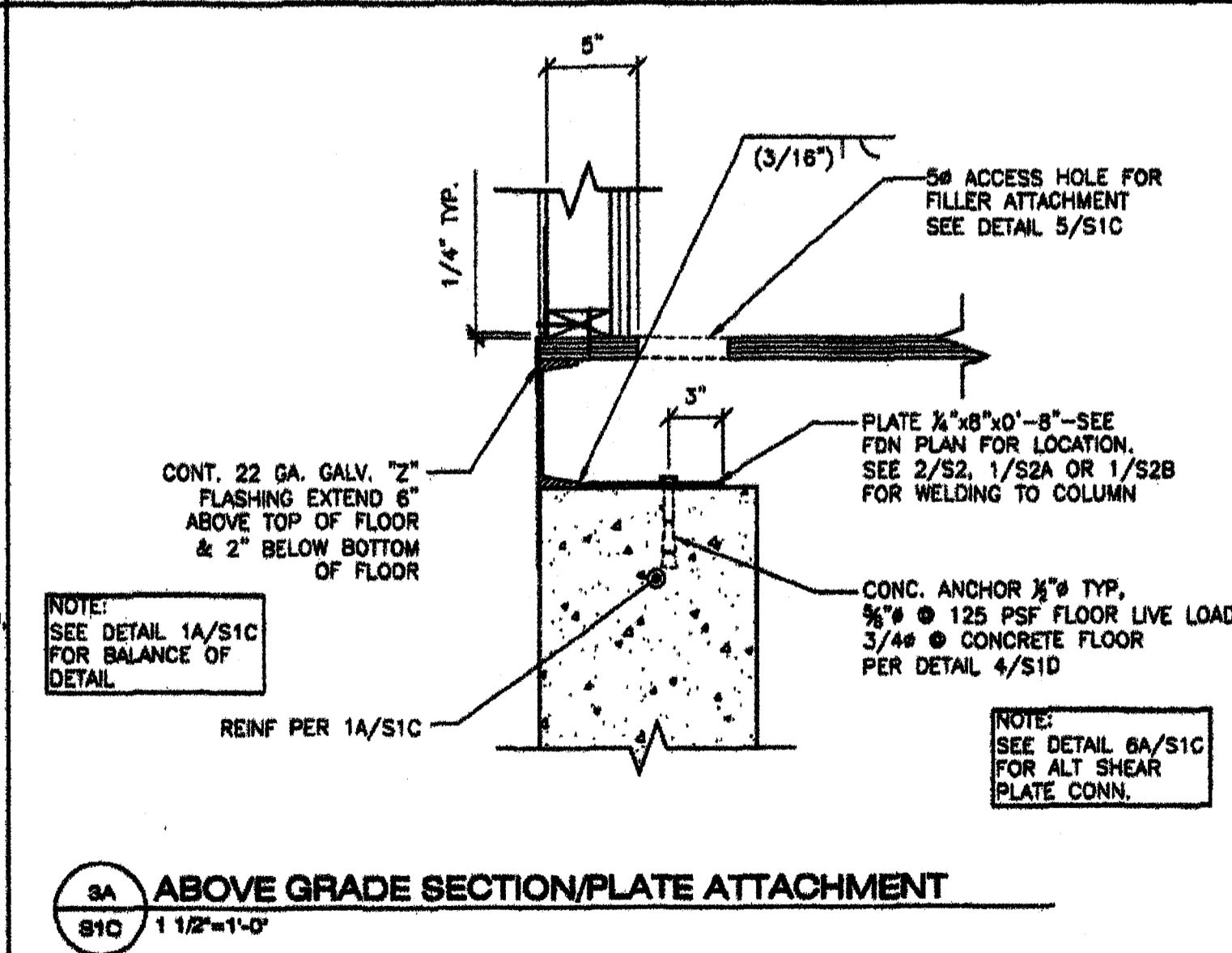
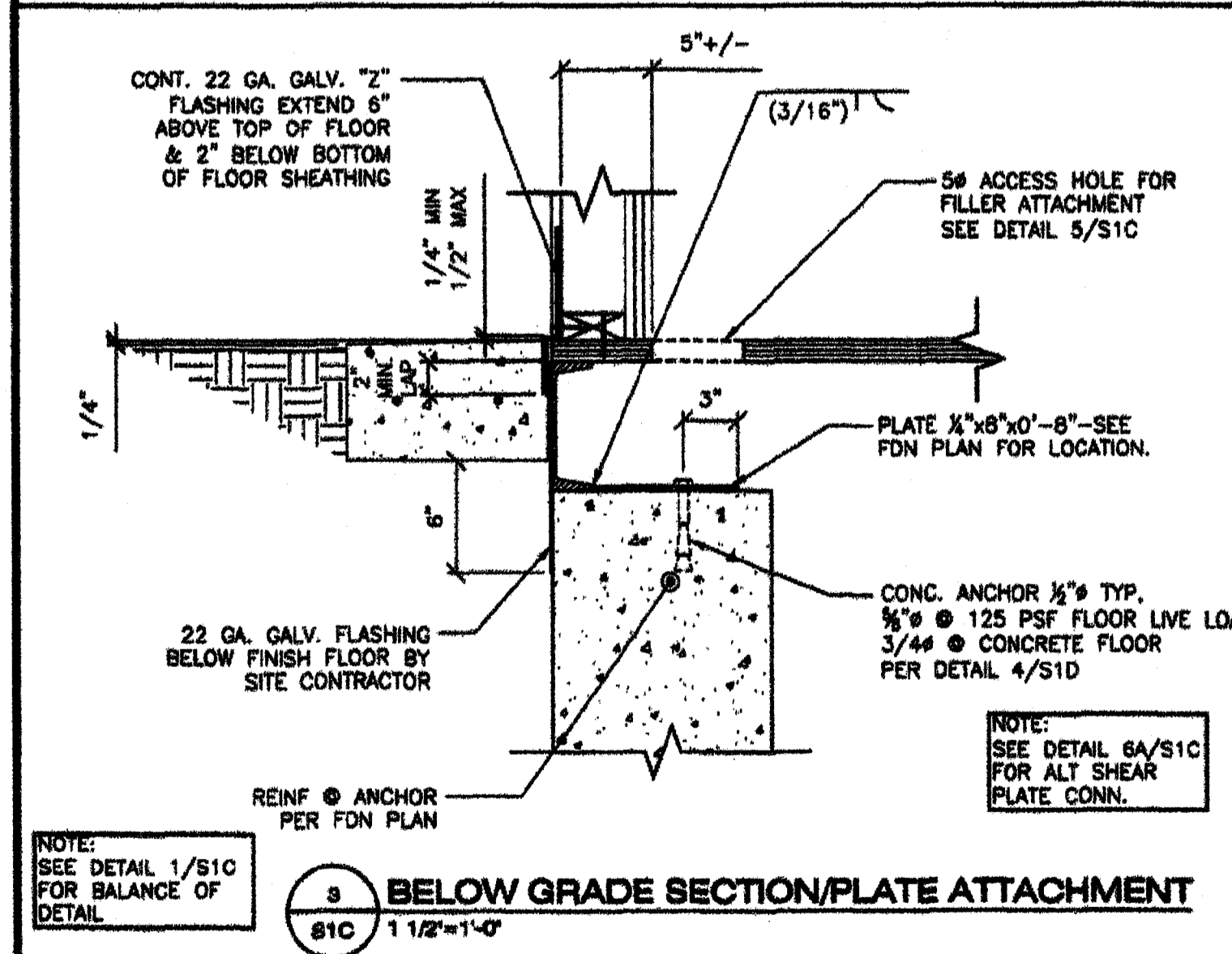
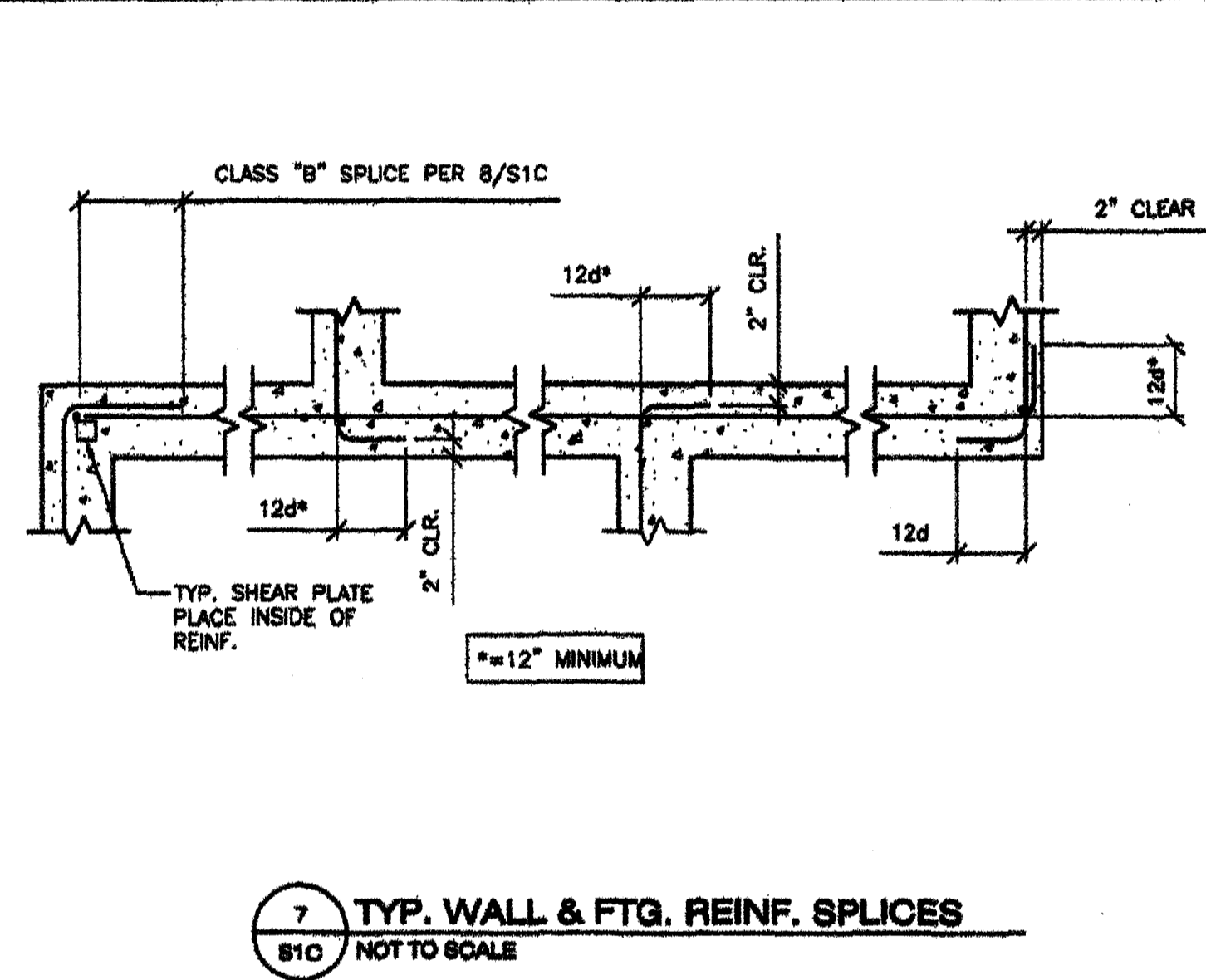
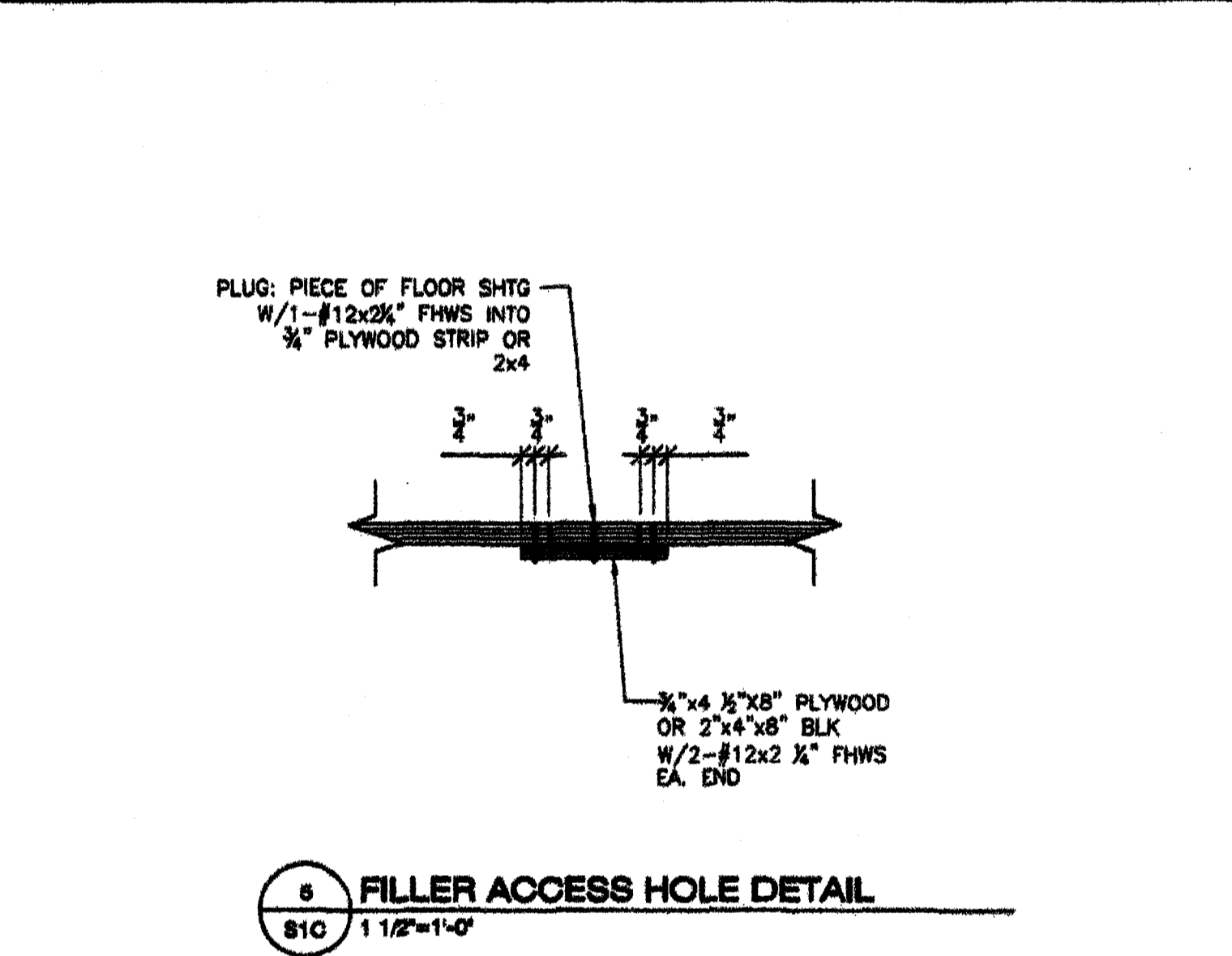
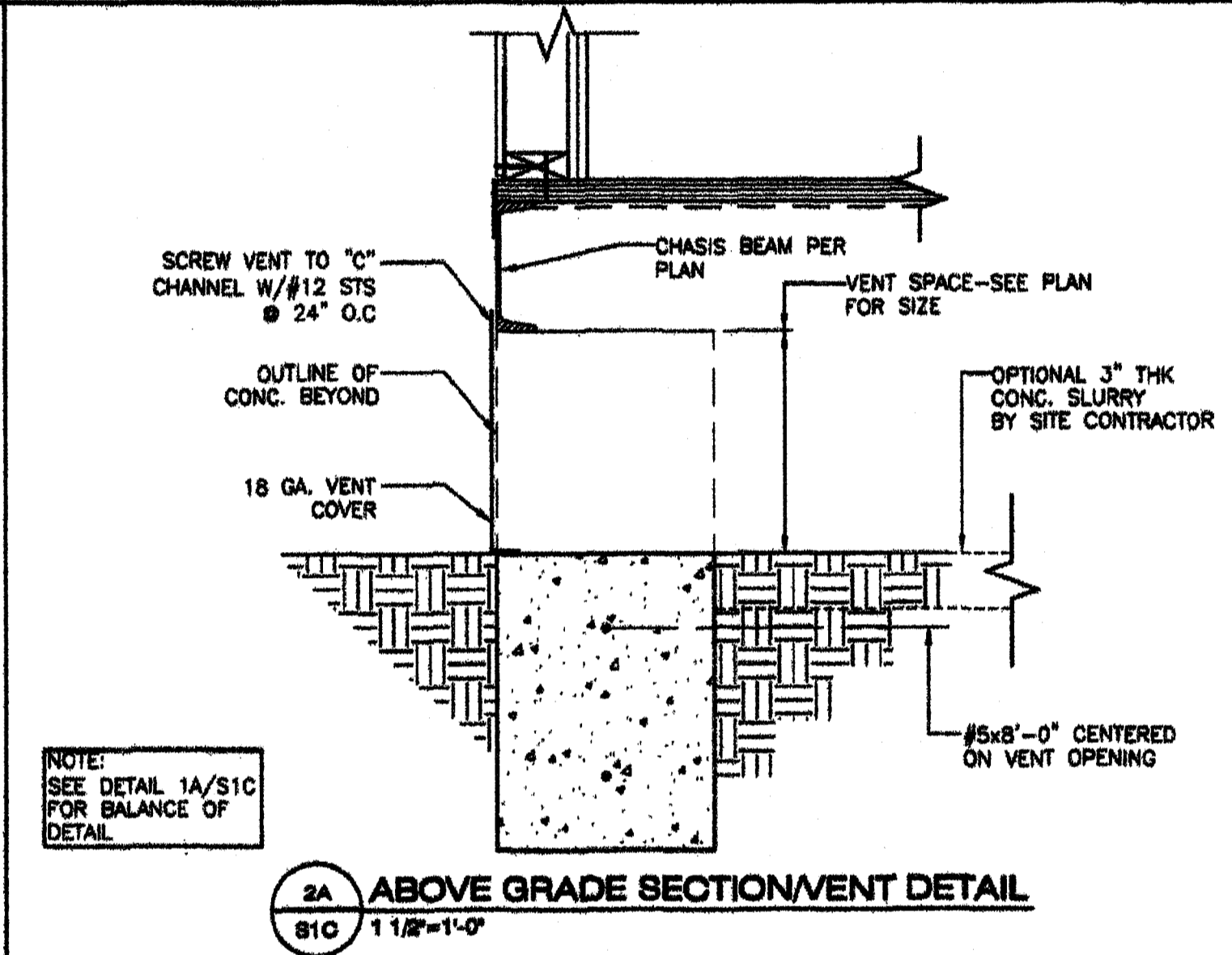
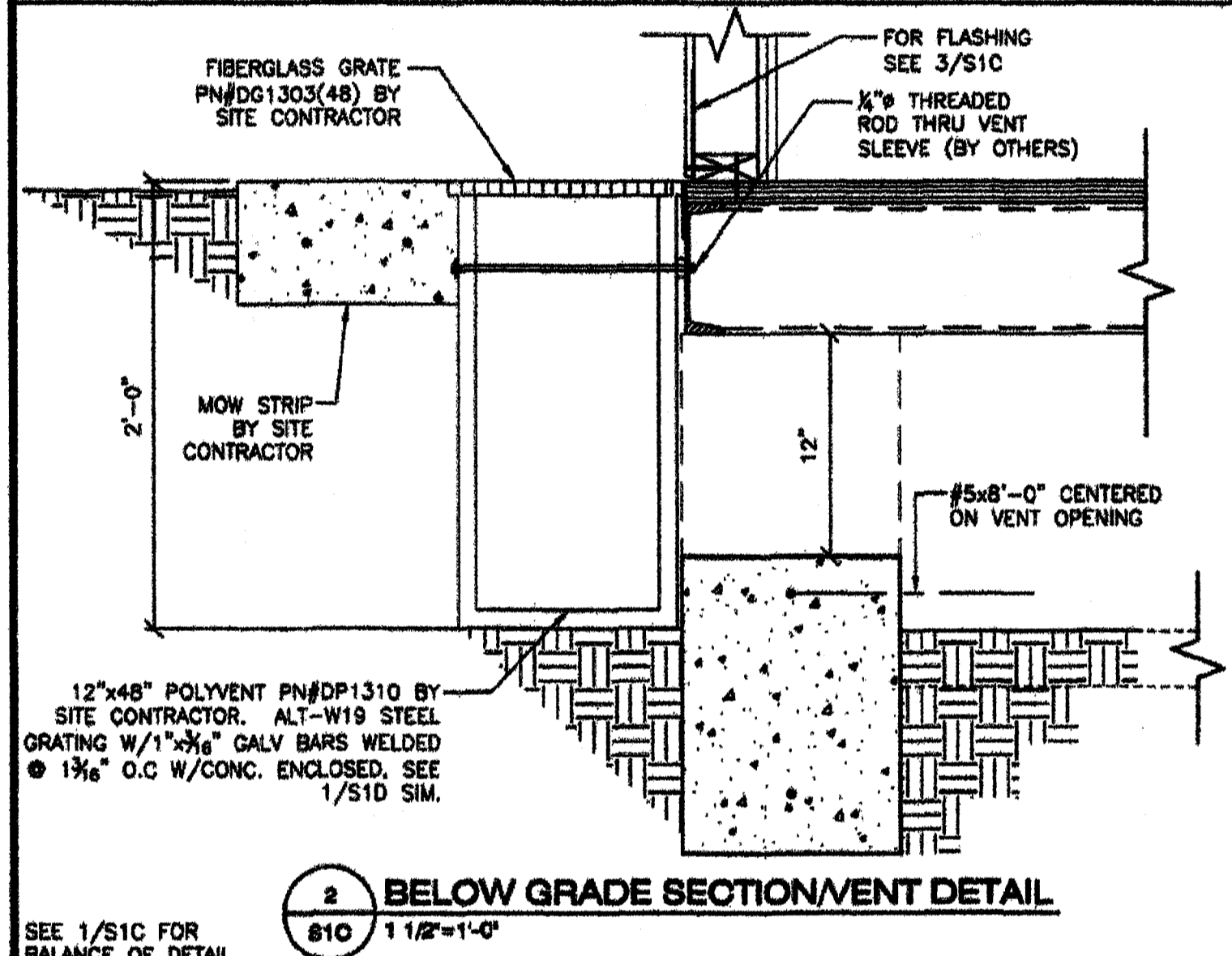
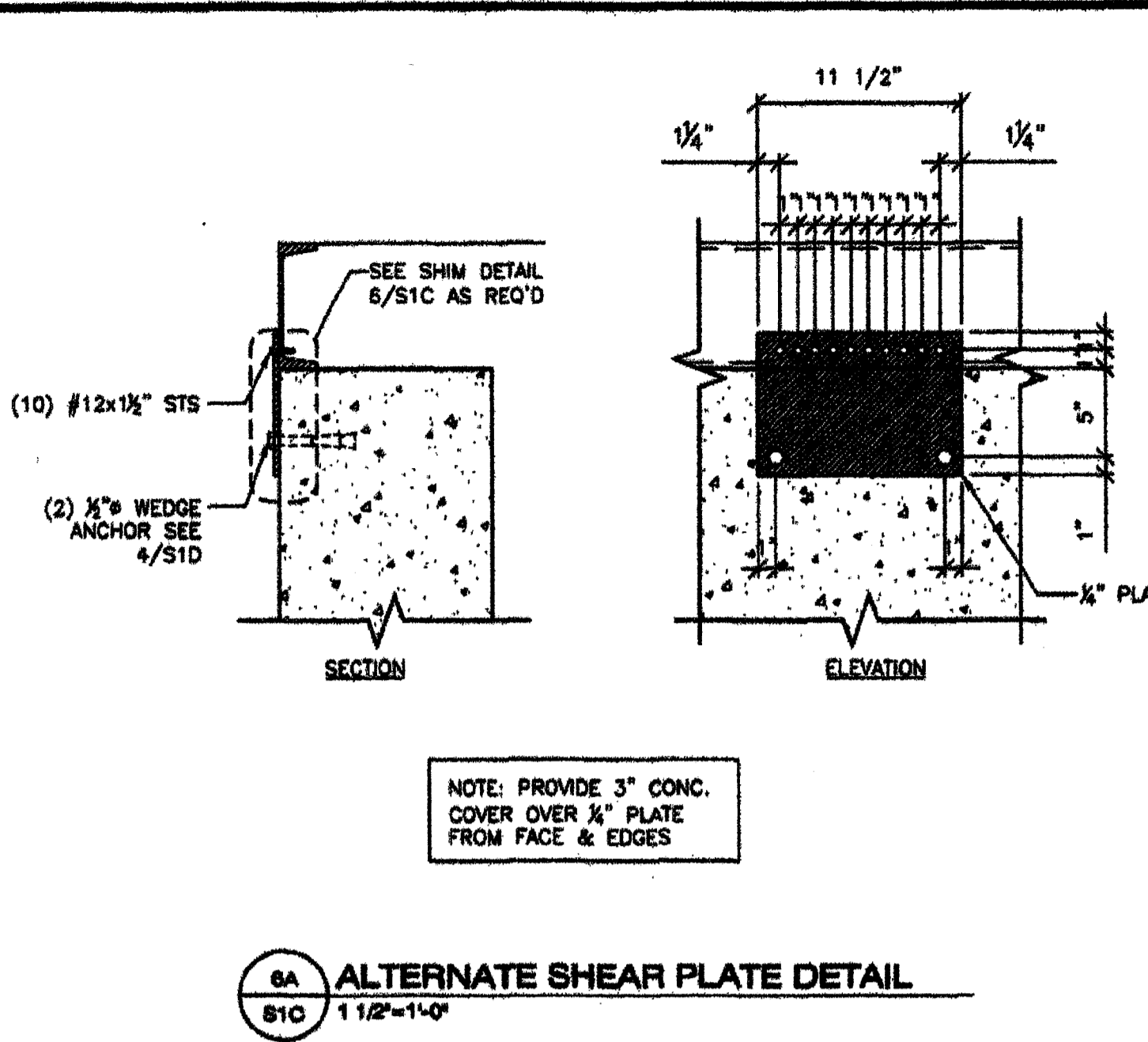
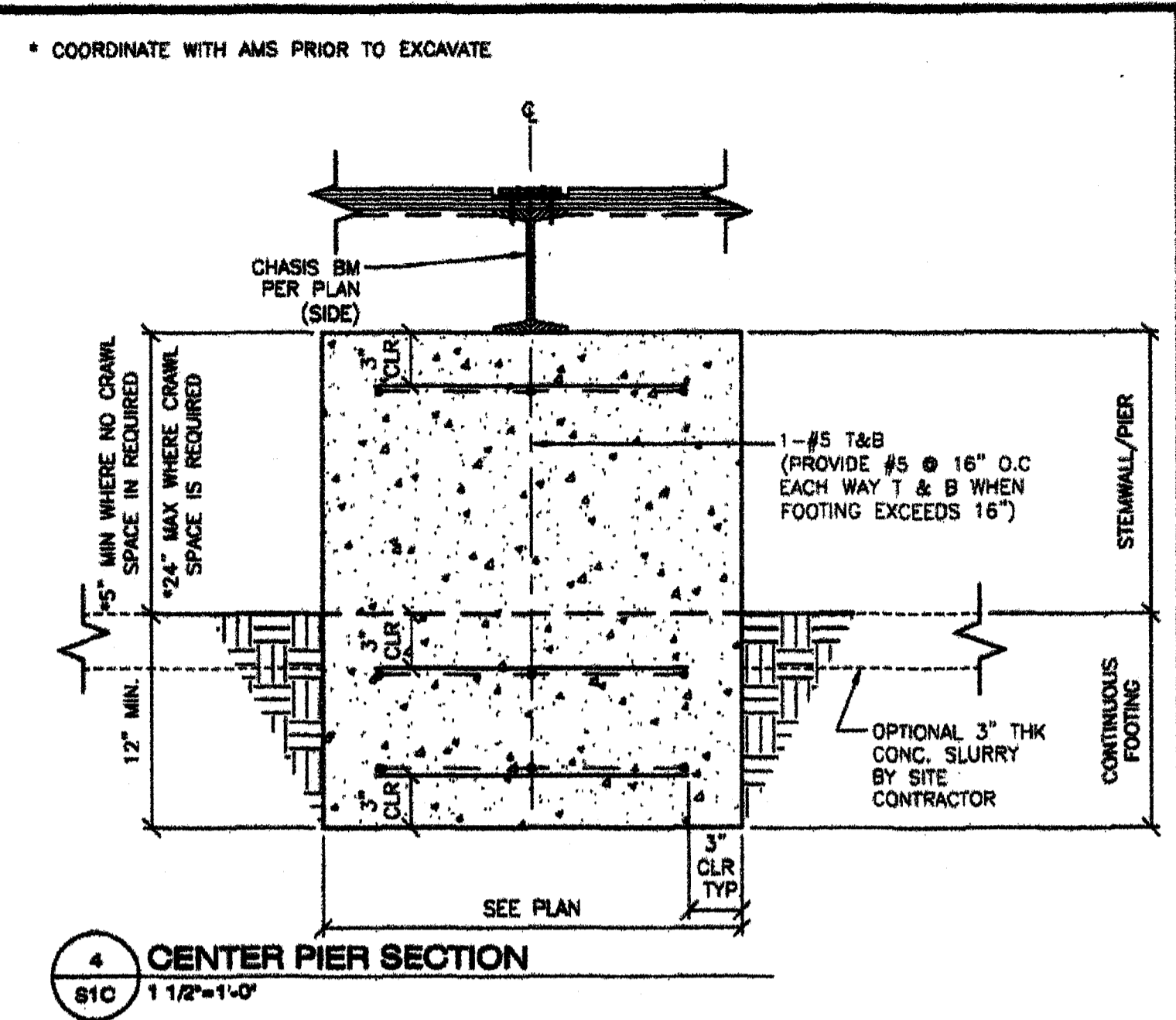
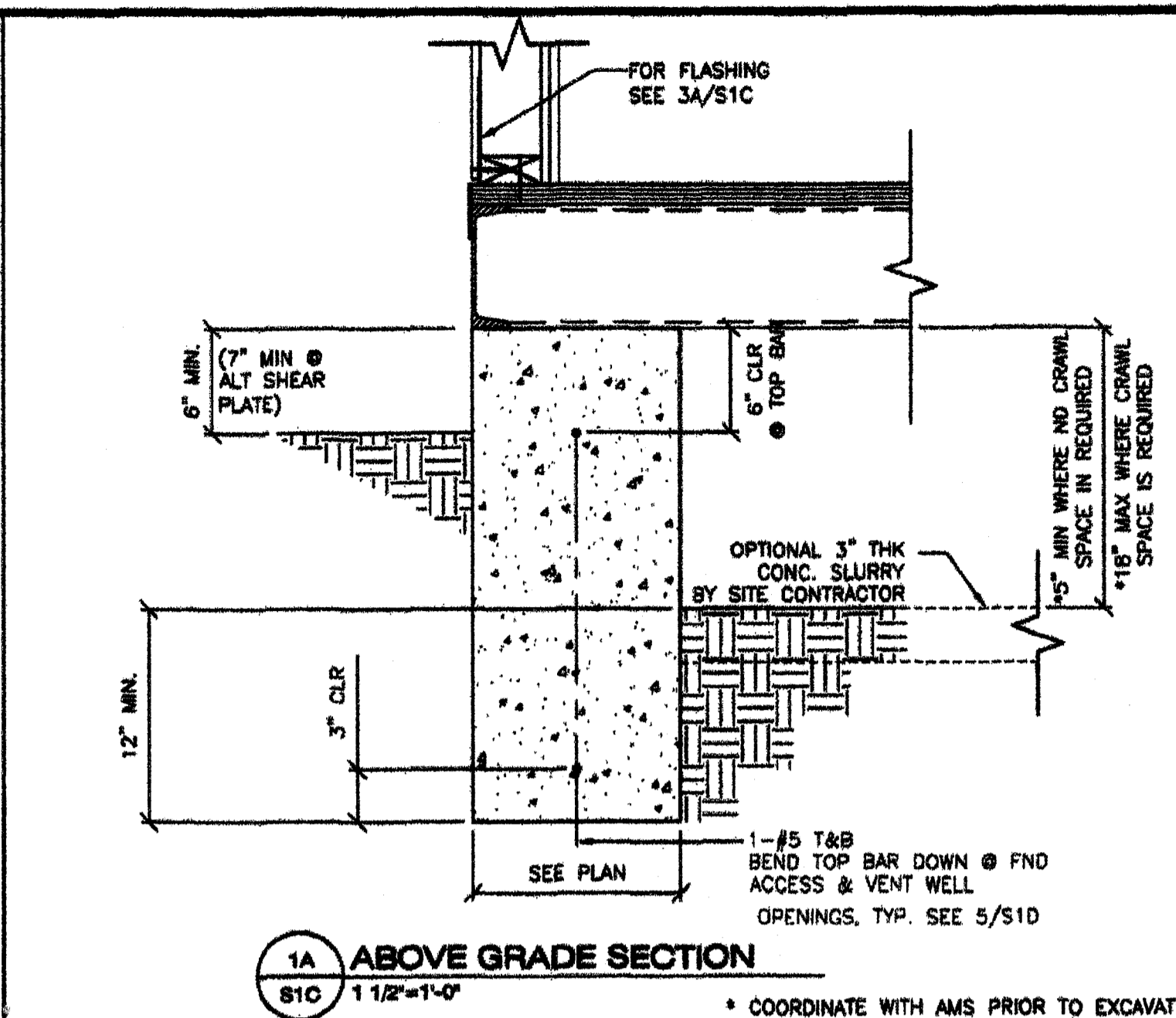
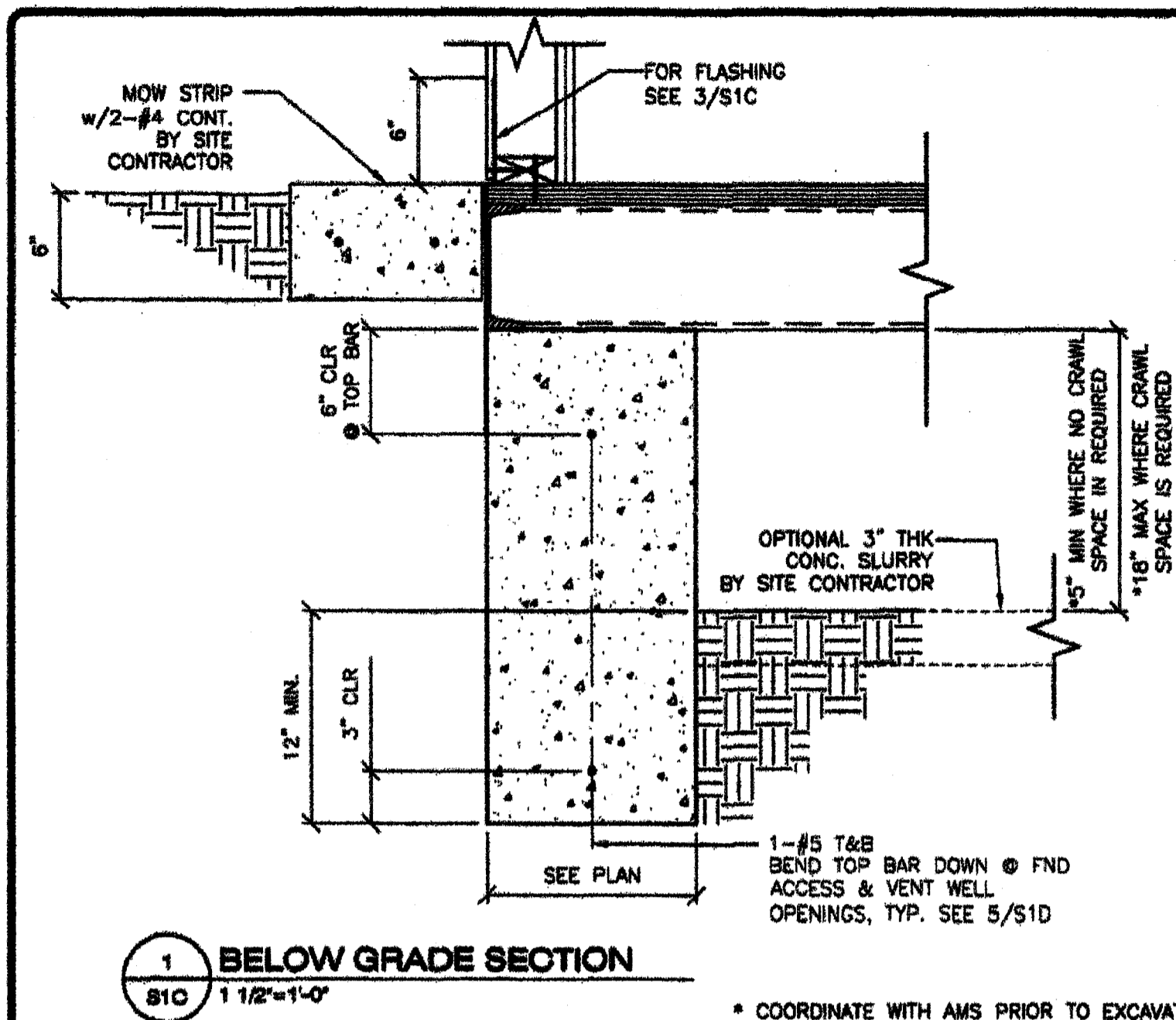
APPROVALS:
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02_111612
AG. - FLS. - SS GR
DATE 1/21/11

PROJECT NO.
S1

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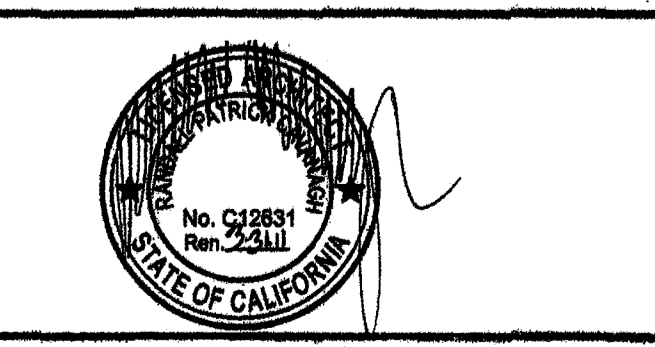
REVISIONS		
NO.	DATE	DESCRIPTION
1	02/17/09	REVISION TO DETAIL 4/S1C

DATE: 01/23/08
SCALE: NOTED
DRAWN BY: RL
SERIAL NO.:

CUSTOMER:
24' x 40' THRU 144' x 40' (ES) RELOCATABLE BUILDINGS CONCRETE FOOTING DETAILS

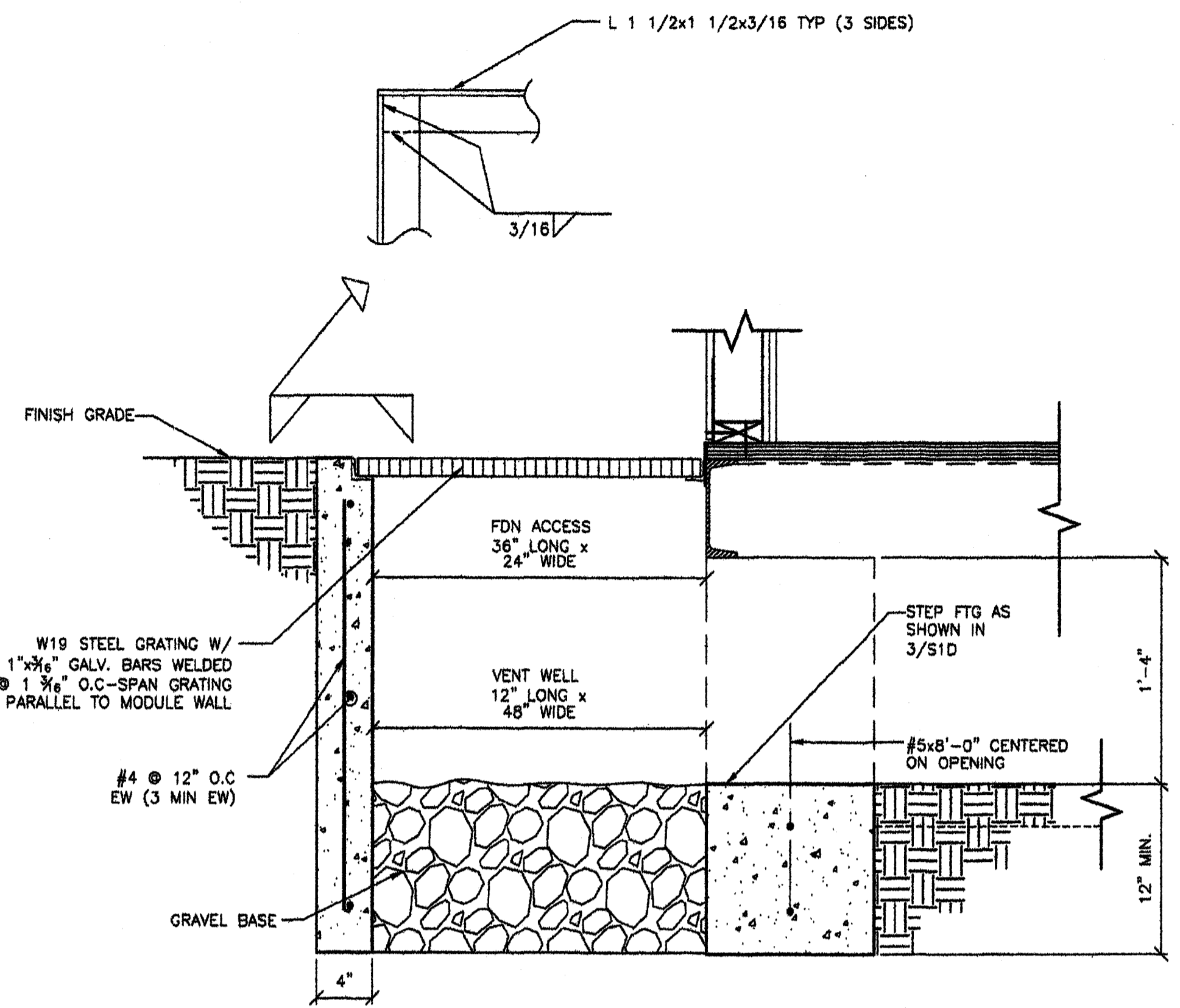


APPROVALS:
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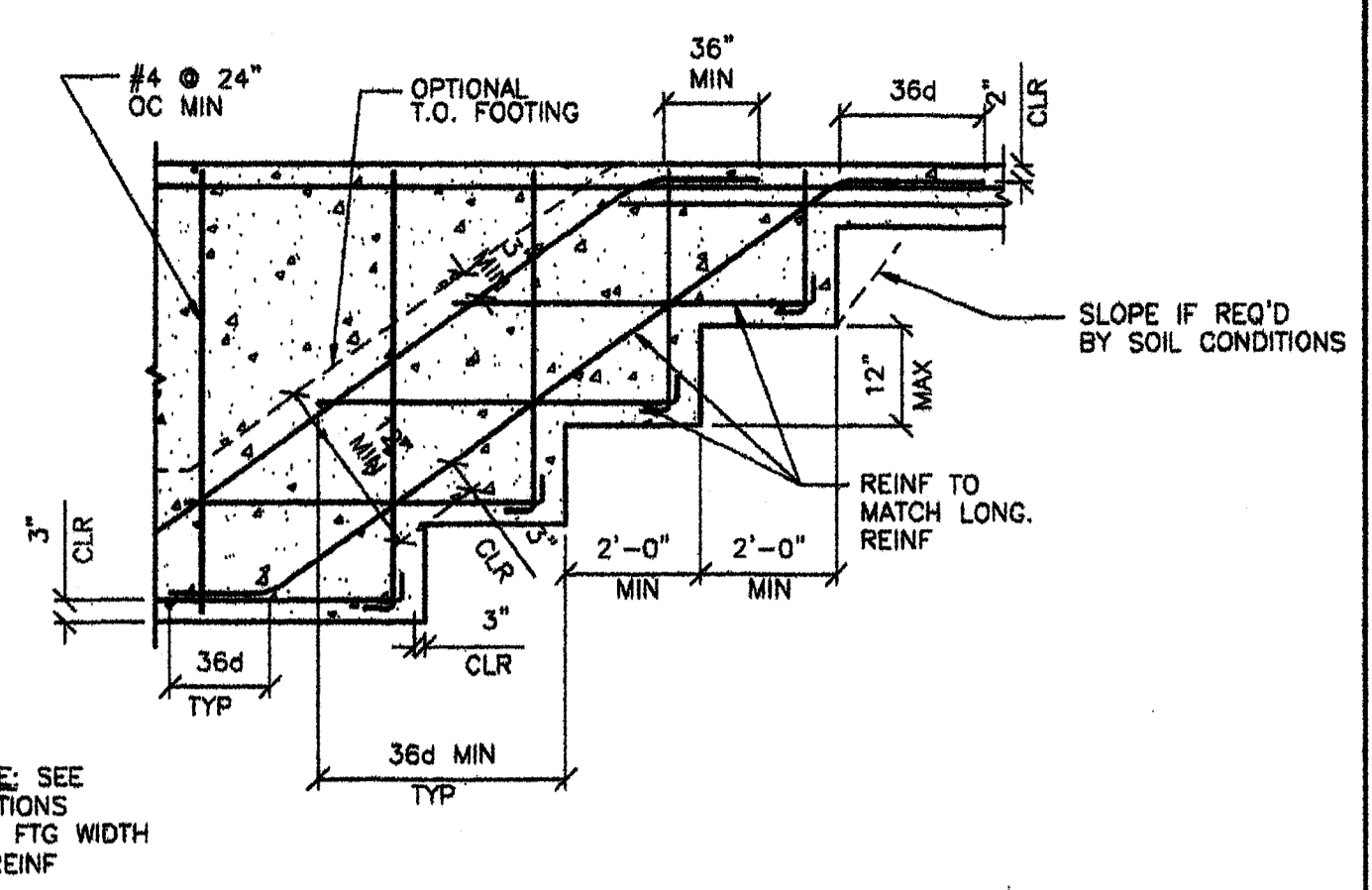


REGISTRATION STAMP
NO. 02111612
AC - FLR - SE - CF
DATE: 1/21/11

PROJECT No.
S1C



1 OPTIONAL FOUNDATION ACCESS/VENT WELL
S1D 1 1/2"=1'-0"



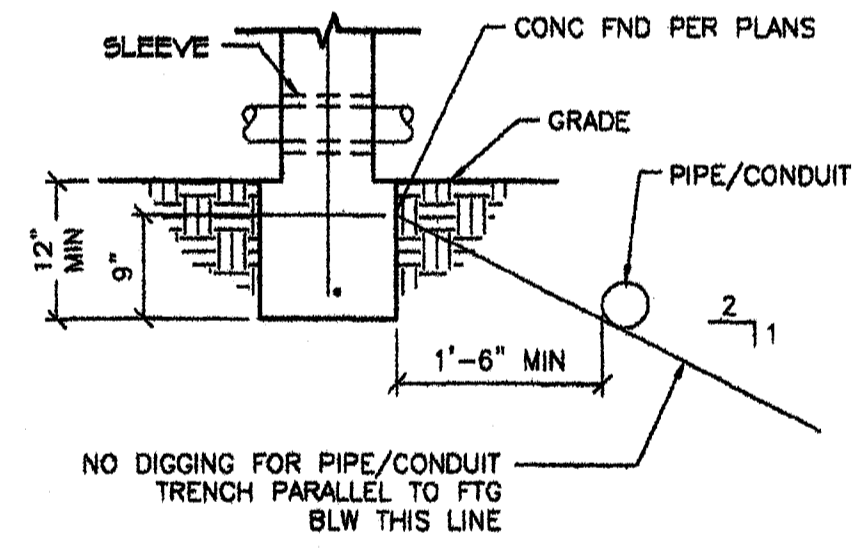
3 TYPICAL STEPPED FOOTING
S1D N.T.S.

ANCHOR TYPE	HILTI KWIK KB-TZ ICC ESR-1917			SIMPSON WEDGEALL ICC ESR-1771		
ANCHOR SIZE (IN)	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
MIN EMBED (IN)	4"	4 3/4"	5 3/4"	3 7/8"	5 1/8"	5 3/4"
TENSION TEST LBS (SINGLE BOLT)	5121#	7395#	7456#	3826#	6378#	5150#
TENSION TEST LBS (DOUBLE BOLT)	5121#	6174#	5889#	3826#	5102#	4122#
INSTALLATION TORQUE (FT-LB)	40	60	110	50	85	180

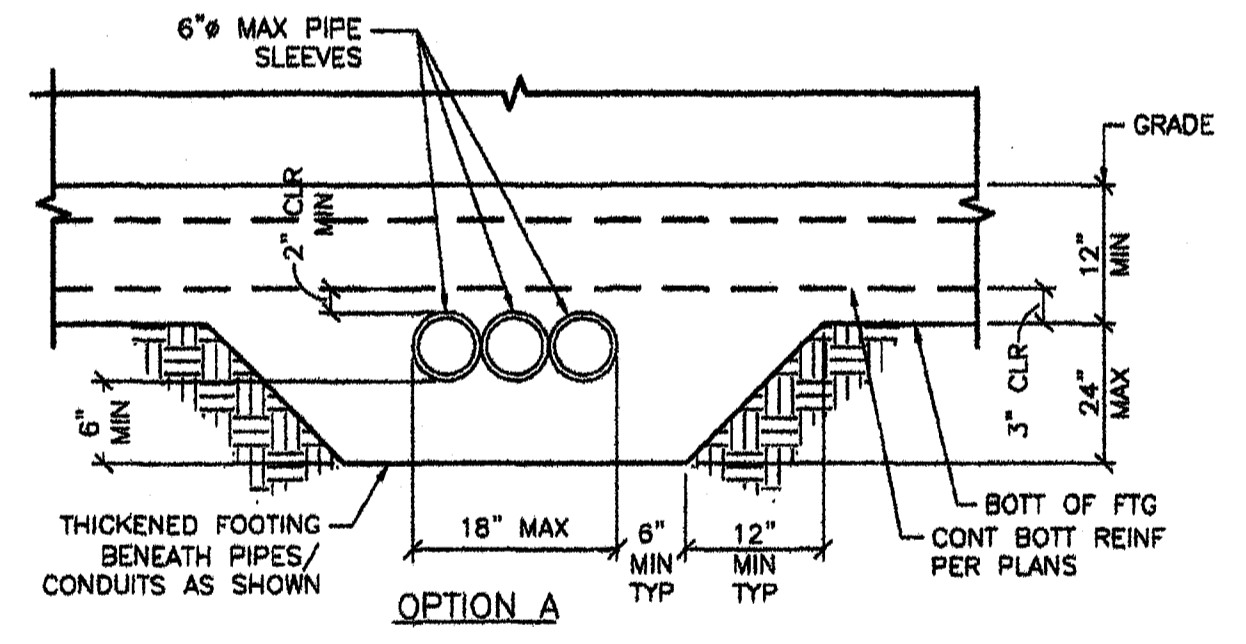
- TENSION TEST - 2 x ALLOWABLE TENSION LOAD PER DSA IR 19-1.
- NORMAL WEIGHT CONCRETE WITH $f'_c = 2500$ PSI TO COMPLY WITH 1916A.4 FOR MATERIAL TEST WAIVER.

4 ANCHOR BOLT SCHEDULE
S1D N.T.S.

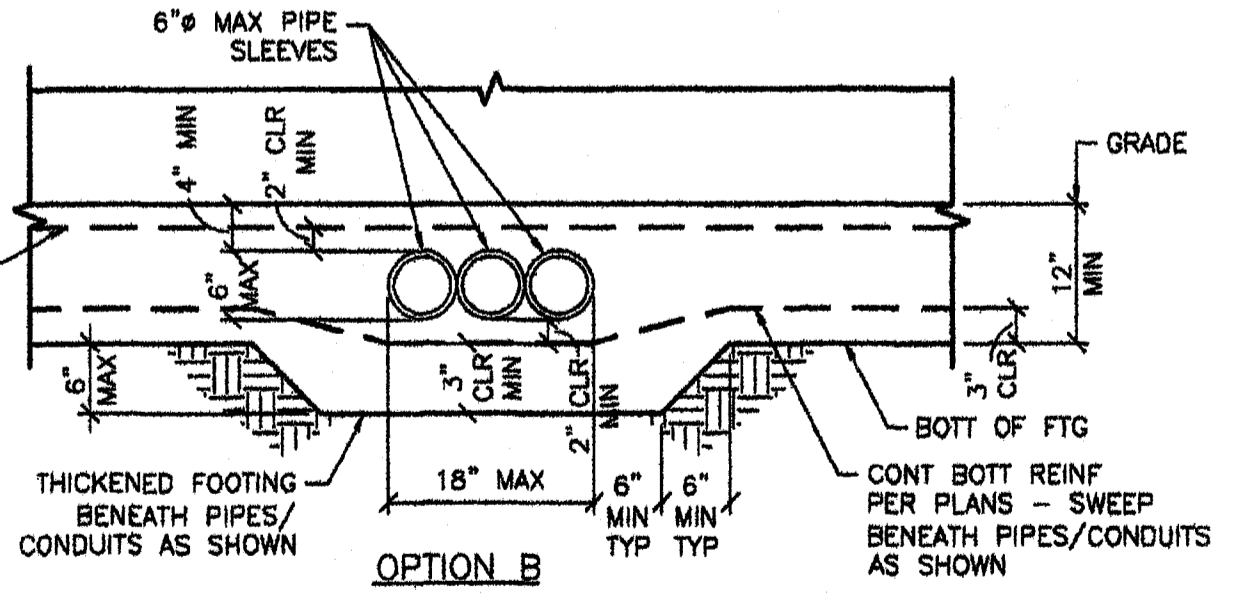
- NOTES:
- AS AN OPTION TO INDIVIDUAL PIPE SLEEVES THE FOOTING MAY BE BLOCKED OUT FOR MULTIPLE PIPES (8" HIGH x 18" WIDE MAX @ OPTION "A", 6" HIGH x 18" WIDE MAX OPTION "B") OR INDIVIDUAL PROVIDE 1" MIN CLEARANCE ALL AROUND BTWN PIPES/CONDUITS & BLOCKOUT/SLEEVES & FILL W/ CAULK.
 - CONCRETE SHALL BE WELL CONSOLIDATED AROUND & UNDER PIPES, CONDUITS, SLEEVES, BLOCKOUTS TO PREVENT CONCRETE VOIDS.
 - PROVIDE 2" CLEAR MIN BETWEEN BLOCKOUT SLEEVES AND REINFORCEMENT.
 - WHERE TOP OF PIPES/CONDUITS ARE 12" OR MORE BELOW THE BOTTOM OF THE FOOTING, THICKENED FOOTING AROUND PIPES/CONDUITS IS NOT REQUIRED. BACKFILL & COMPACT TO 95% OVER PIPES/CONDUITS PRIOR TO PLACING FOOTING.



2 PIPE SLEEVE DETAIL
S1D 1 1/2"=1'-0"



5 VENT/ACCESS VENT OPENING DETAIL
S1D 1 1/2"=1'-0"



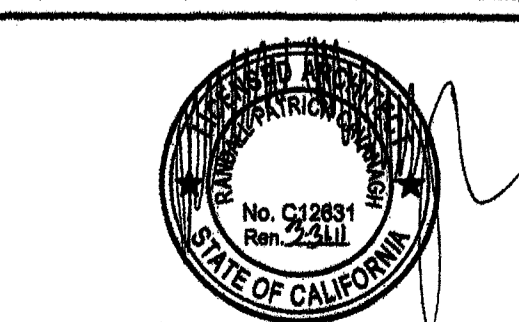
REVISIONS		
NO	DATE	DESCRIPTION

DATE: 11/19/2007
SCALE: NOTED
DRAWN BY: RL
SERIAL NO.:

CUSTOMER:
**24' x 40' THRU 144' x 40' RELOCATABLE BUILDINGS
CONCRETE FOOTING DETAILS**



APPROVALS:
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

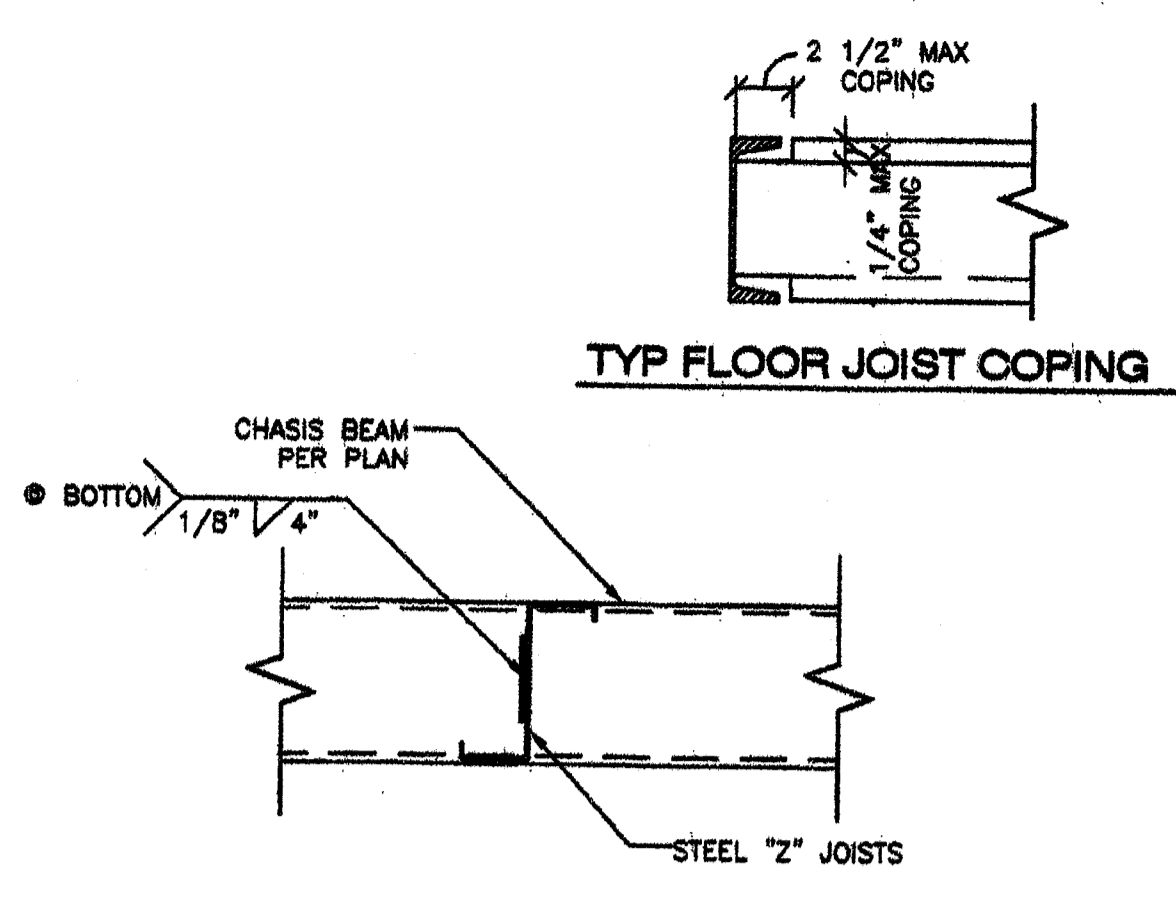


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02 111612
AC: FLS SE GR
DATE: 11/21/07

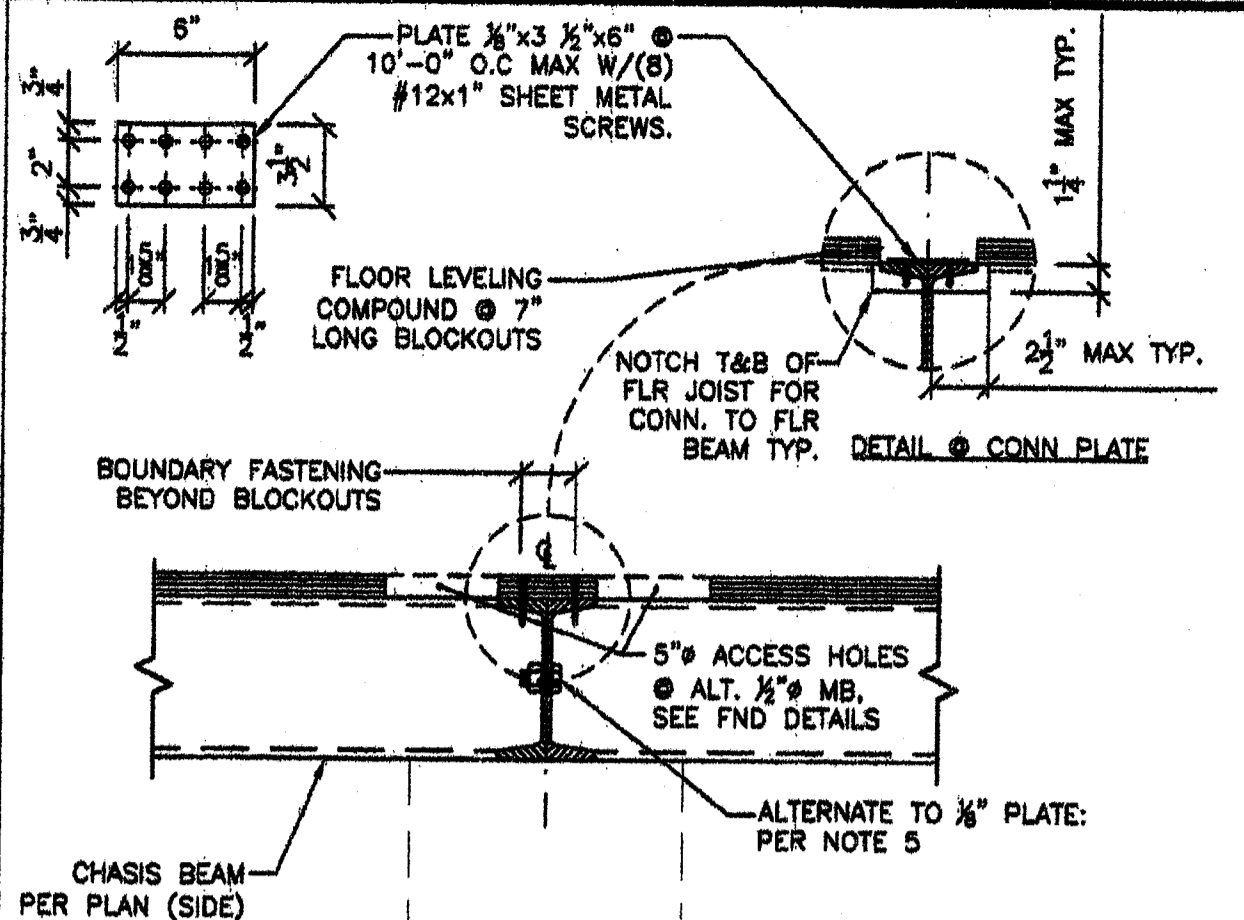
PROJECT No.
S1D

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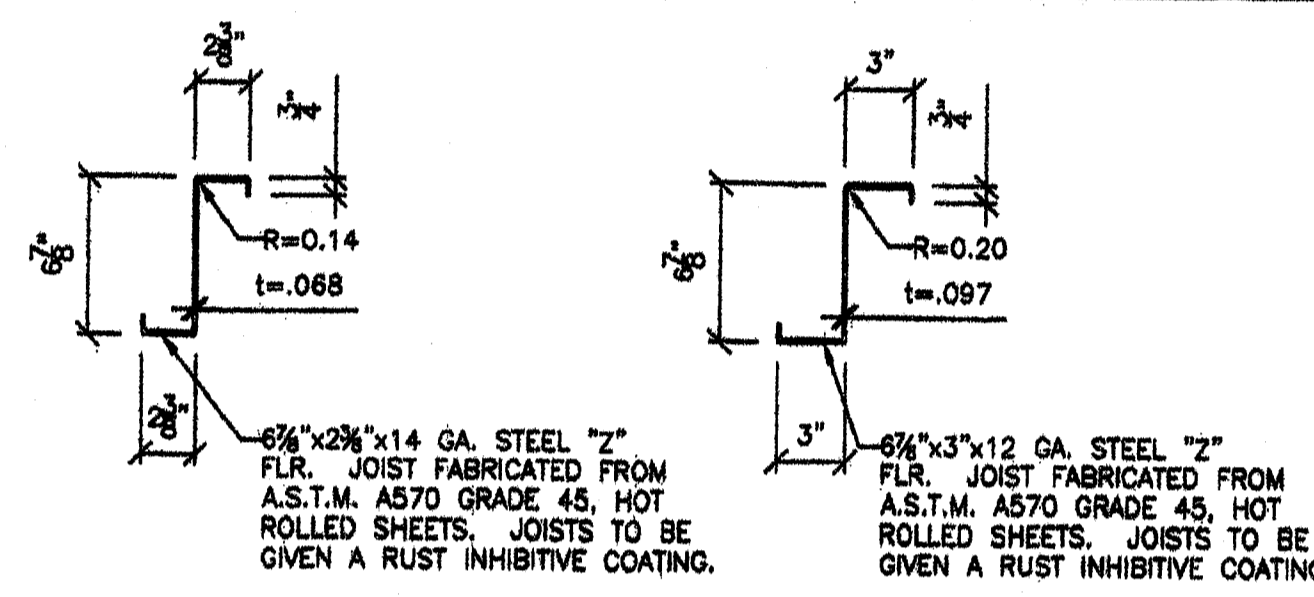
TYP FLOOR JOIST COPING



1 TYP JOIST ATTACHMENT TO BEAM
82 1 1/2"=1'-0"



3 TYP. BEAM TO BEAM CONNECTION
82 1 1/2"=1'-0"



14 GA. JOIST **12 GA. JOIST**

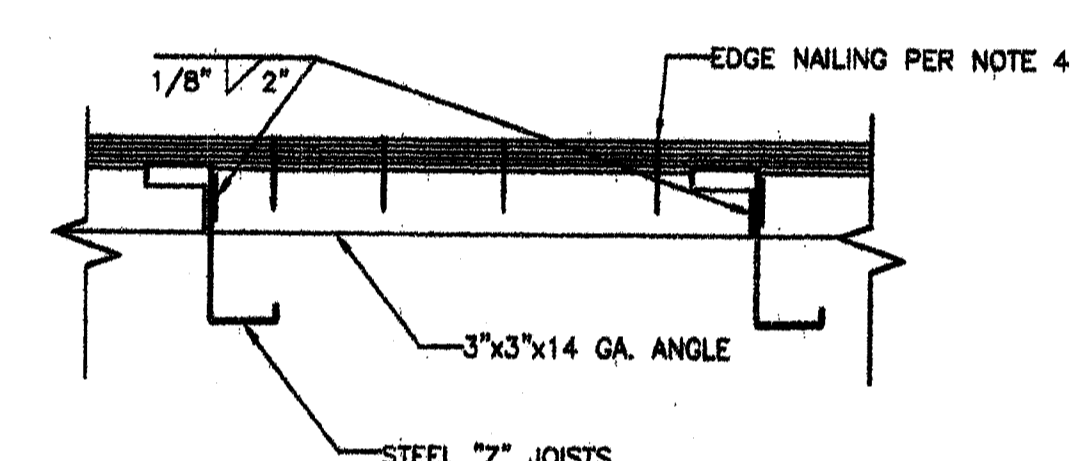
Z SECTION PROPERTIES

A=0.89 IN. ²
Sx=1.85 IN. ³
Ix=6.37 IN. ⁴

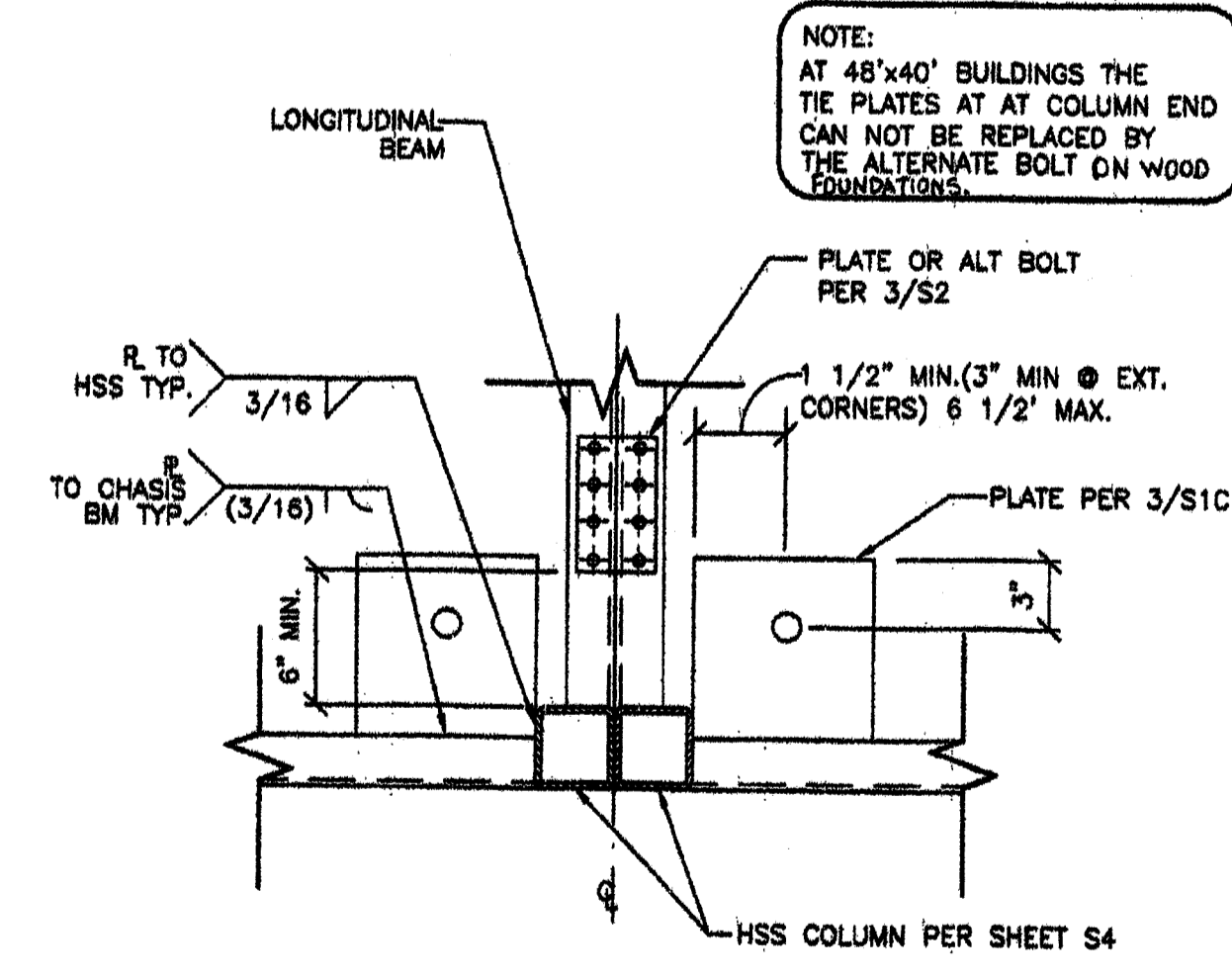
Z SECTION PROPERTIES

A=1.38 IN. ²
Sx=2.97 IN. ³
Ix=10.20 IN. ⁴

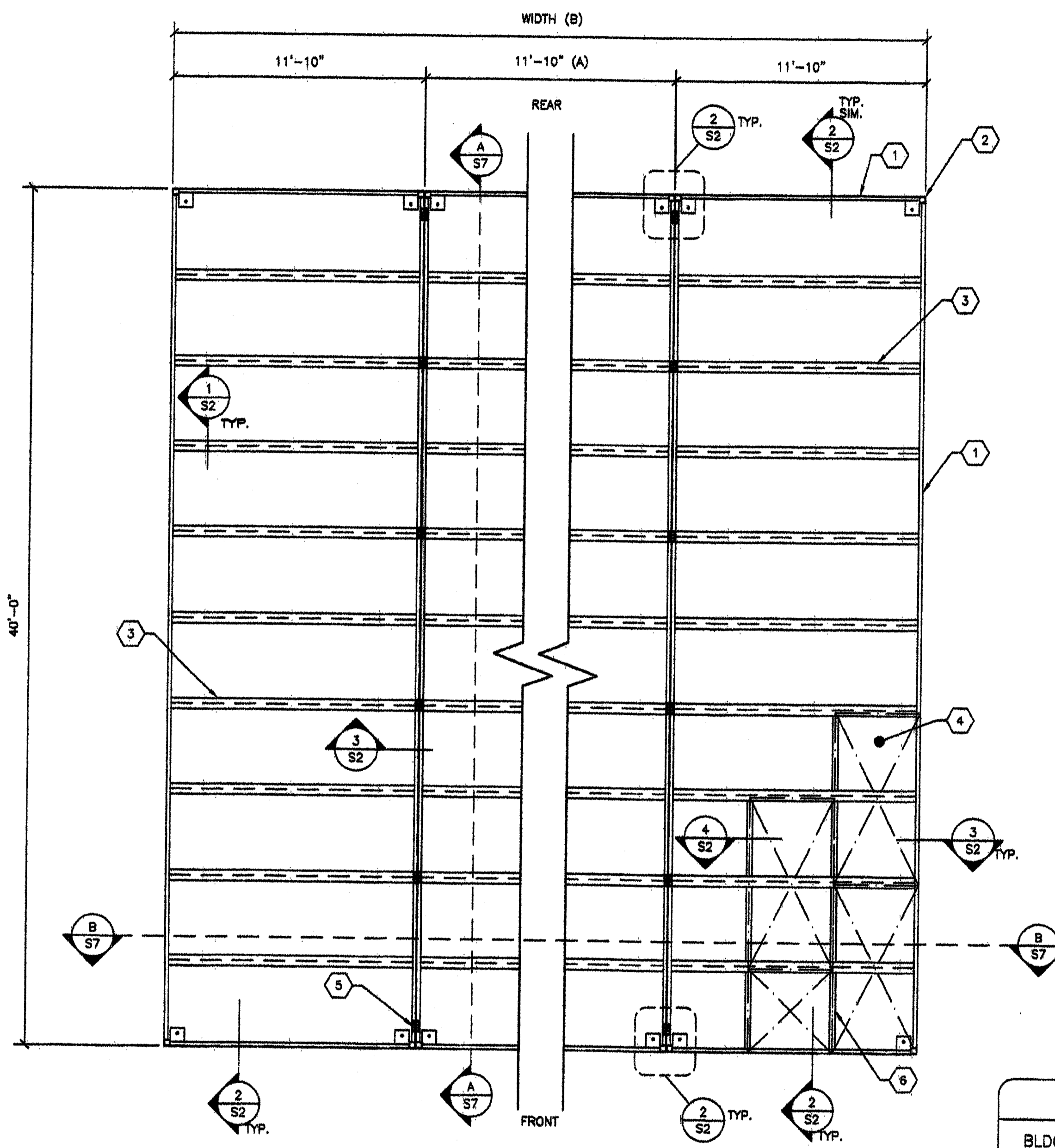
1A TYP JOISTS
82 1 1/2"=1'-0"



4 TYP. ANGLE TO Z-PURLIN ATTACHMENT
82 1 1/2"=1'-0"



2 TYP. FL. BEAM CONNECTION
82 1 1/2"=1'-0"



A TYPICAL FLOOR FRAMING LAYOUT
82 1/4"=1'-0"
PLYWOOD FLOOR

- KEY NOTES -**
- C 7x9.8 FLOOR BEAM ALTERNATE C10x15.3
 - HSS COLUMN PER SHEET S4
 - FLOOR JOIST (SEE 1A/S2)
- | FLOOR JOIST SCHEDULE | | |
|----------------------|----------------------|--------------|
| LIVE LOAD PSF | 14 GA. JOIST SPACING | 12 GA. JOIST |
| 50 PSF | 48" O.C. | 48" O.C. |
| 50+15 PSF | 24" O.C. | 48" O.C. |
| 100 PSF | 24" O.C. | 24" O.C. |
| 150 PSF | 24" O.C. | 24" O.C. |
- 1 1/8" T&G PLYWOOD FLOOR SHTG STURDI-1-FLOOR 48" O.C SPAN RATING EXP. 1 CONFORMING TO PS 1-95 OPTION: UNI-FLOOR BY PITTSBURGH TESTING LAB CONFORMING TO PS 1-95. STAGGER SHEETS 48" O.C AS SHOWN W/ FACE GRAIN NORMAL TO FLOOR JOISTS. FASTENING: BOUNDARY OF EA. MODULE: #12x2 1/4" WOOD TEK @ CHANNEL @ 6" O.C. PANEL EDGES: ET&F 0.144"x2" MIN. POWER DRIVEN PINS @ 6" O.C. FIELD: ET&F 0.144"x2" MIN. POWER DRIVEN PINS @ 10" O.C. NOTE: SEE ICC ER-4144 FOR ET&F BRAND PNEUMATIC PINS.
 - PLATE 1/8"x 3 1/2"x6" W/8#12x1" SHEET METAL SCREWS @ 10'-0" O.C MAX
- ALTERNATE:
1/2"x1 1/2" MB @ 10'-0" O.C TYP (8'-0" O.C. MAX @ 48"x40' 150 PSF FLOOR LIVE LOAD BUILDING ON WOOD FOUNDATIONS) MAX AND 6" MAX FROM EACH END OF MODULE. BOLT @ + 1/8" MAX HOLE THRU CHANNELS
- 3"x3"x1/4 GA. ANGLE @ UNSUPPORTED PLYWOOD EDGES @ THE TWO END MODULES OF 48"x40' 150 P.S.F. BUILDING ON WOOD FOUNDATION ONLY. PER DETAIL 4/S2

- GENERAL NOTES -**
- THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.

- MODULE SCHEDULE -

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL BLDG WIDTH
24' x 40'	2	0	23'-8 1/4"
36' x 40'	3	1	35'-0 1/2"
48' x 40'	4	2	47'-4 3/4"
60' x 40'	5	3	59'-3"
72' x 40'	6	4	71'-1 1/4"
84' x 40'	7	5	82'-11 1/2"
96' x 40'	8	6	94'-9 3/4"
108' x 40'	9	7	106'-8"
120' x 40'	10	8	118'-6 1/4"

REVISIONS

NO	DATE	DESCRIPTION

DATE: 02/11/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS FLOOR FRAMING PLANS (PLYWOOD)

AMS
American Modular Systems Inc.
787 Spruceville Ave. Manteca, CA 95238
(209)922-1921 Fax: (209)922-7018
americanmodular.com

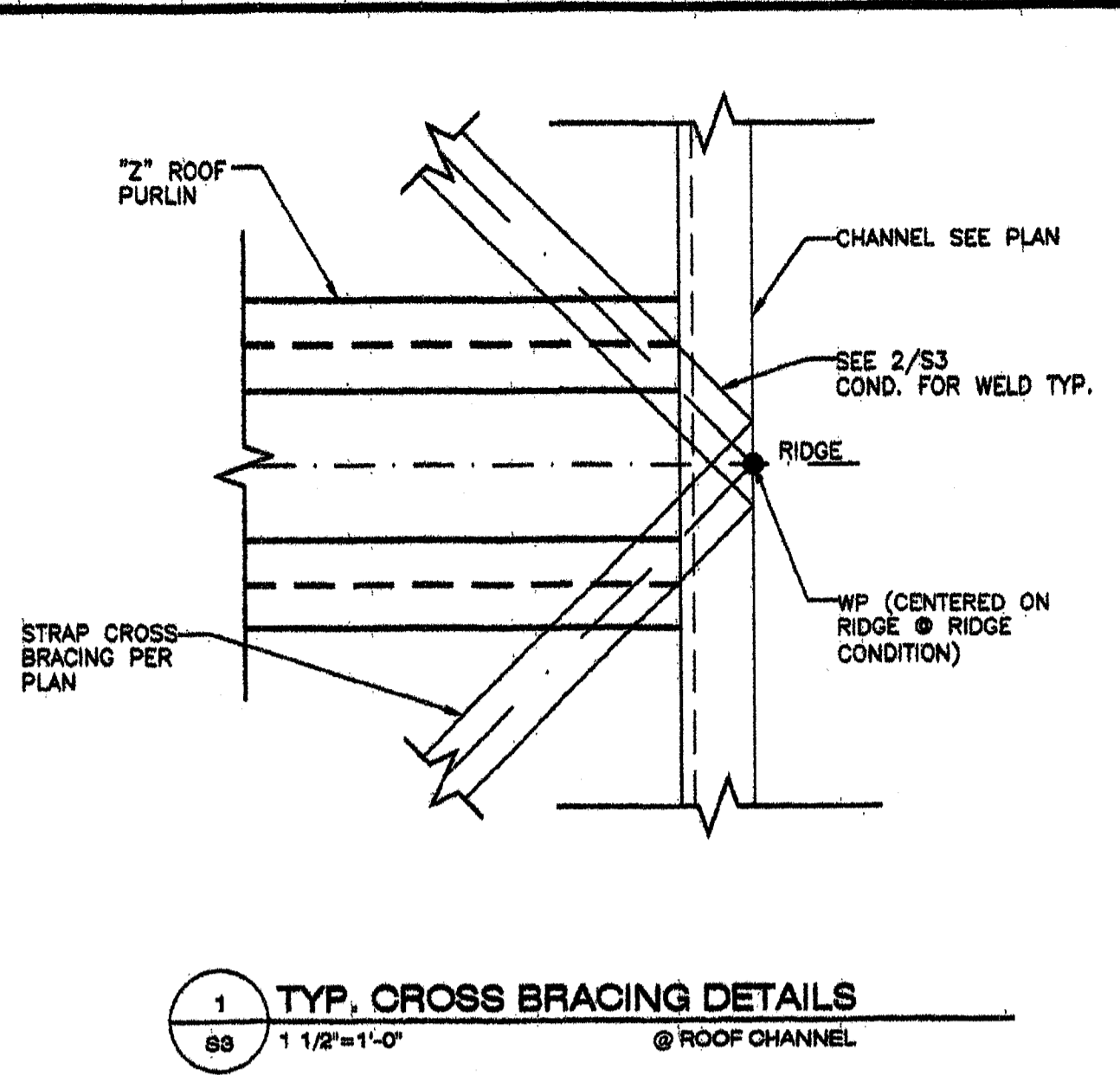
APPROVALS:
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Kenneth A. Lohr
No. 2418
Exp. 3-31-09
Structural Engineer
STATE OF CALIFORNIA

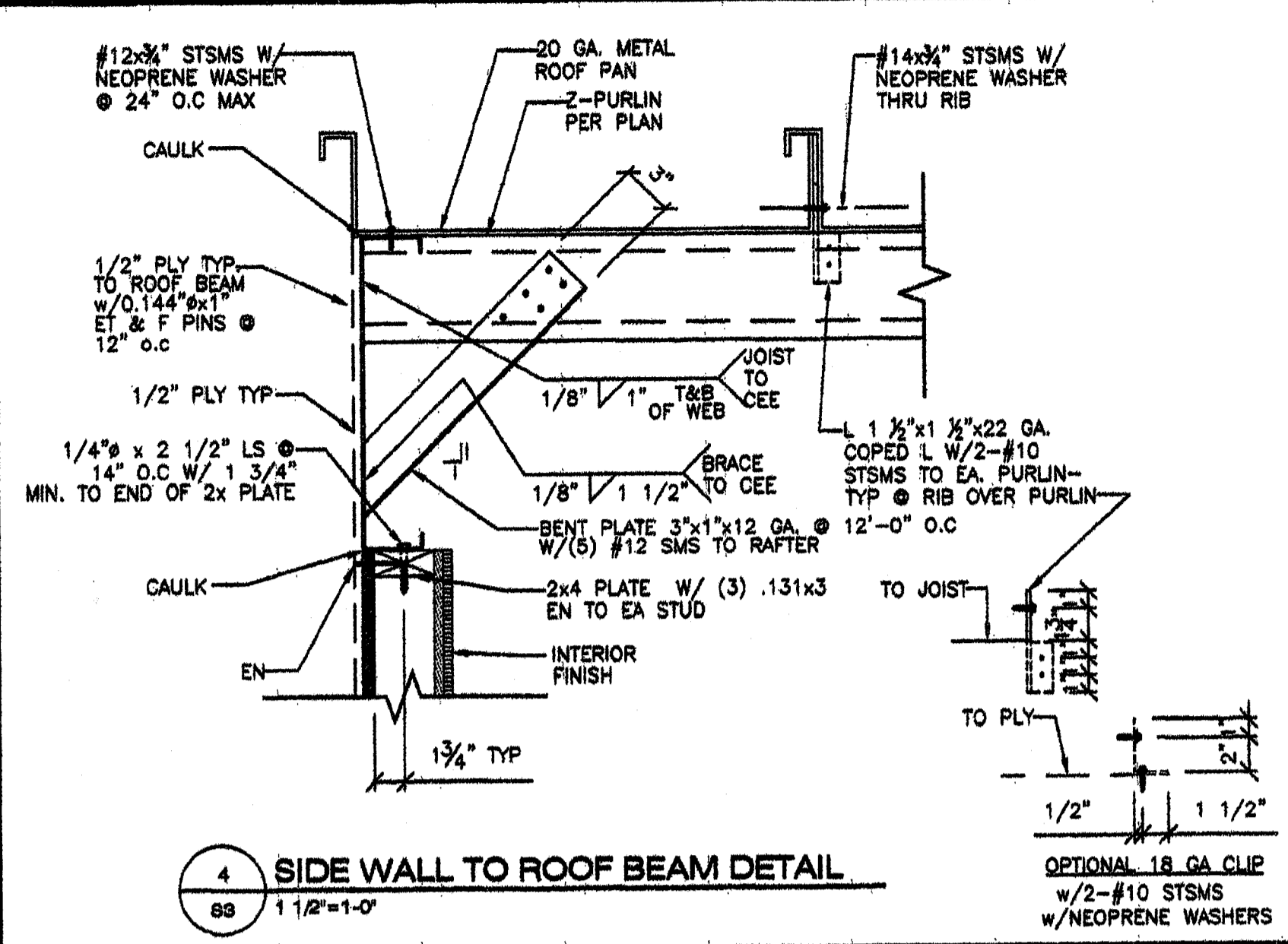
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02-111612
AC - PLS - SS CLR
DATE: 1/12/11

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S2

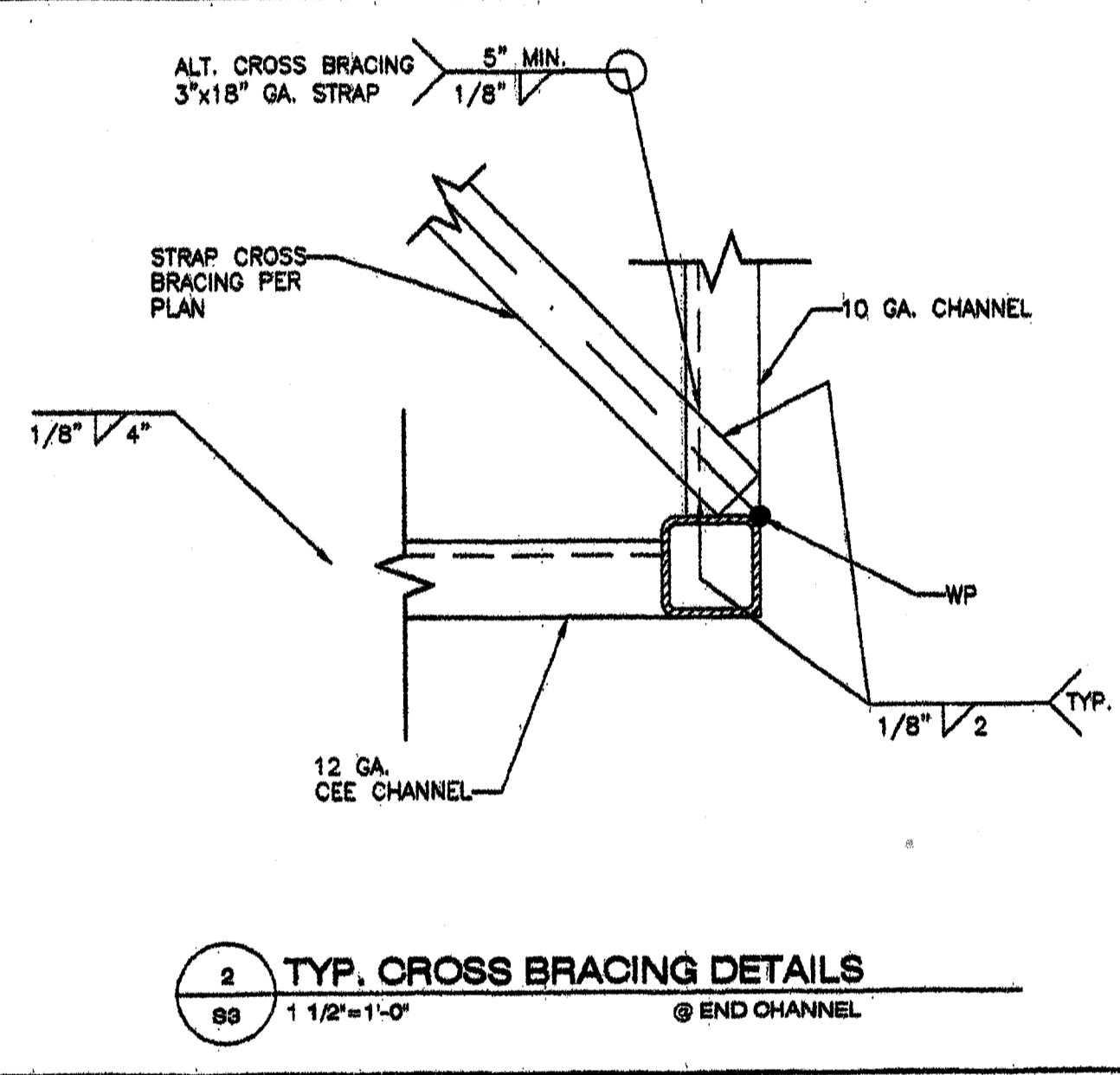
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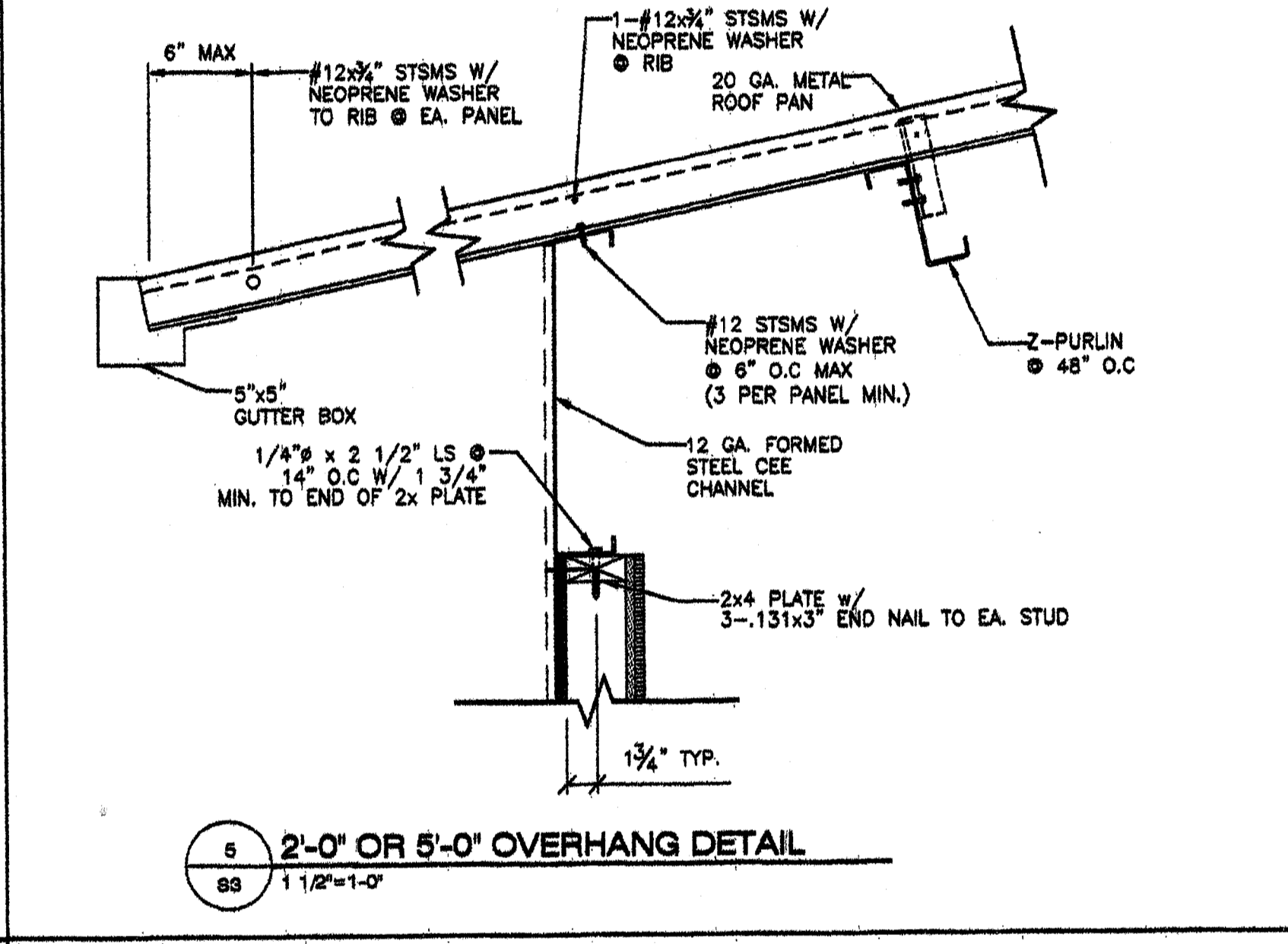
1 TYP. CROSS BRACING DETAILS
@ ROOF CHANNEL



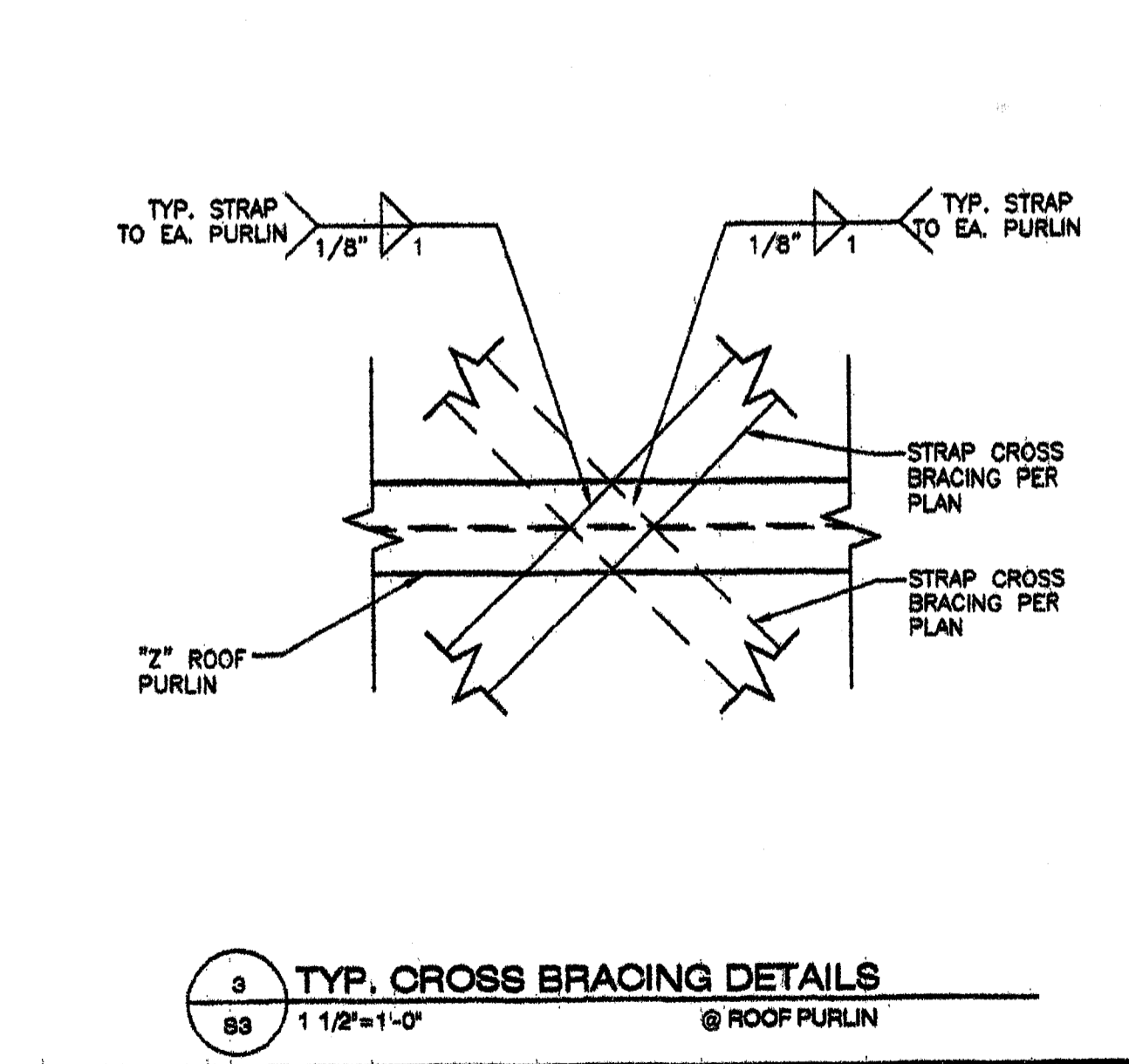
4 SIDE WALL TO ROOF BEAM DETAIL



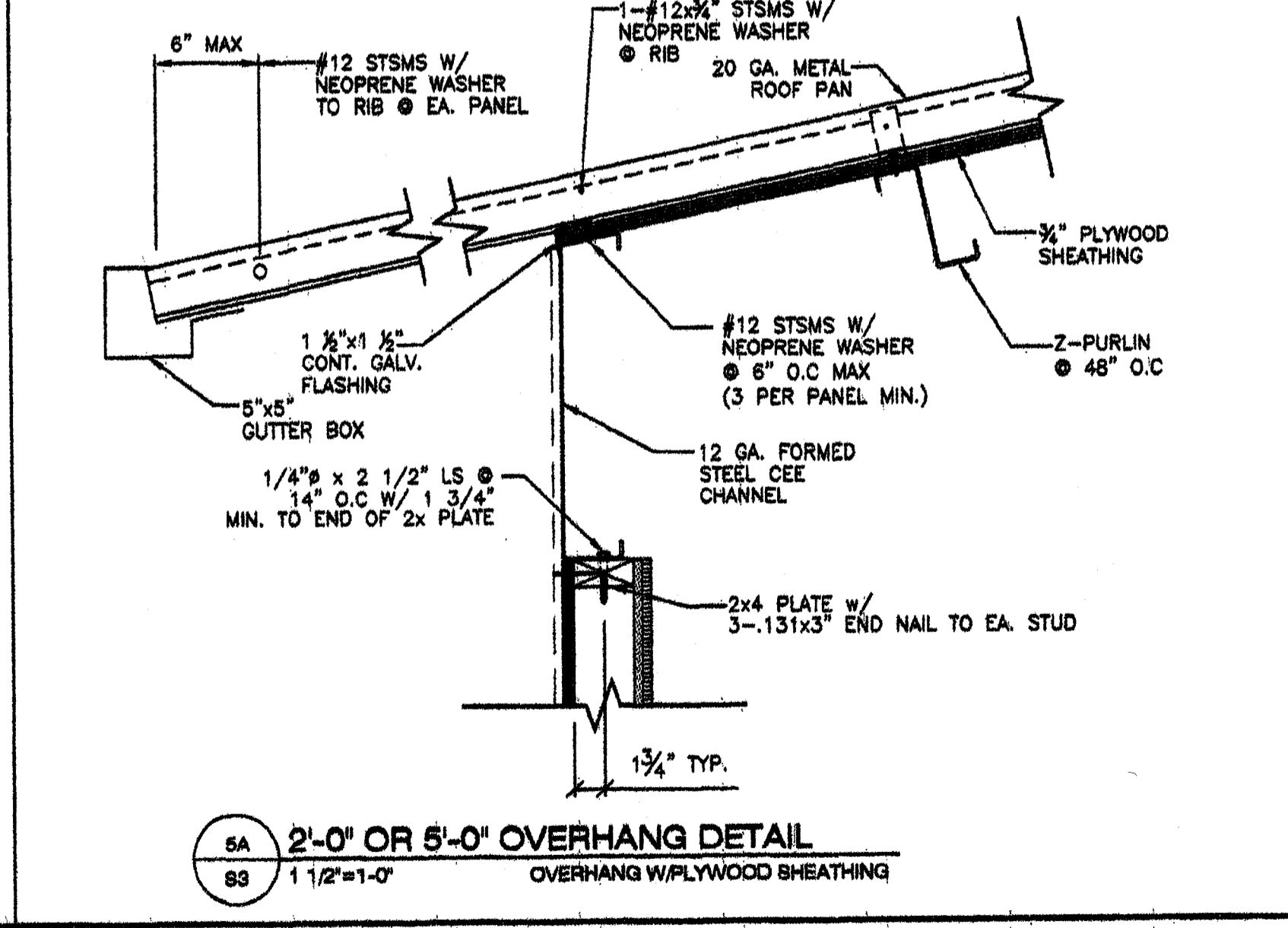
2 TYP. CROSS BRACING DETAILS
@ END CHANNEL



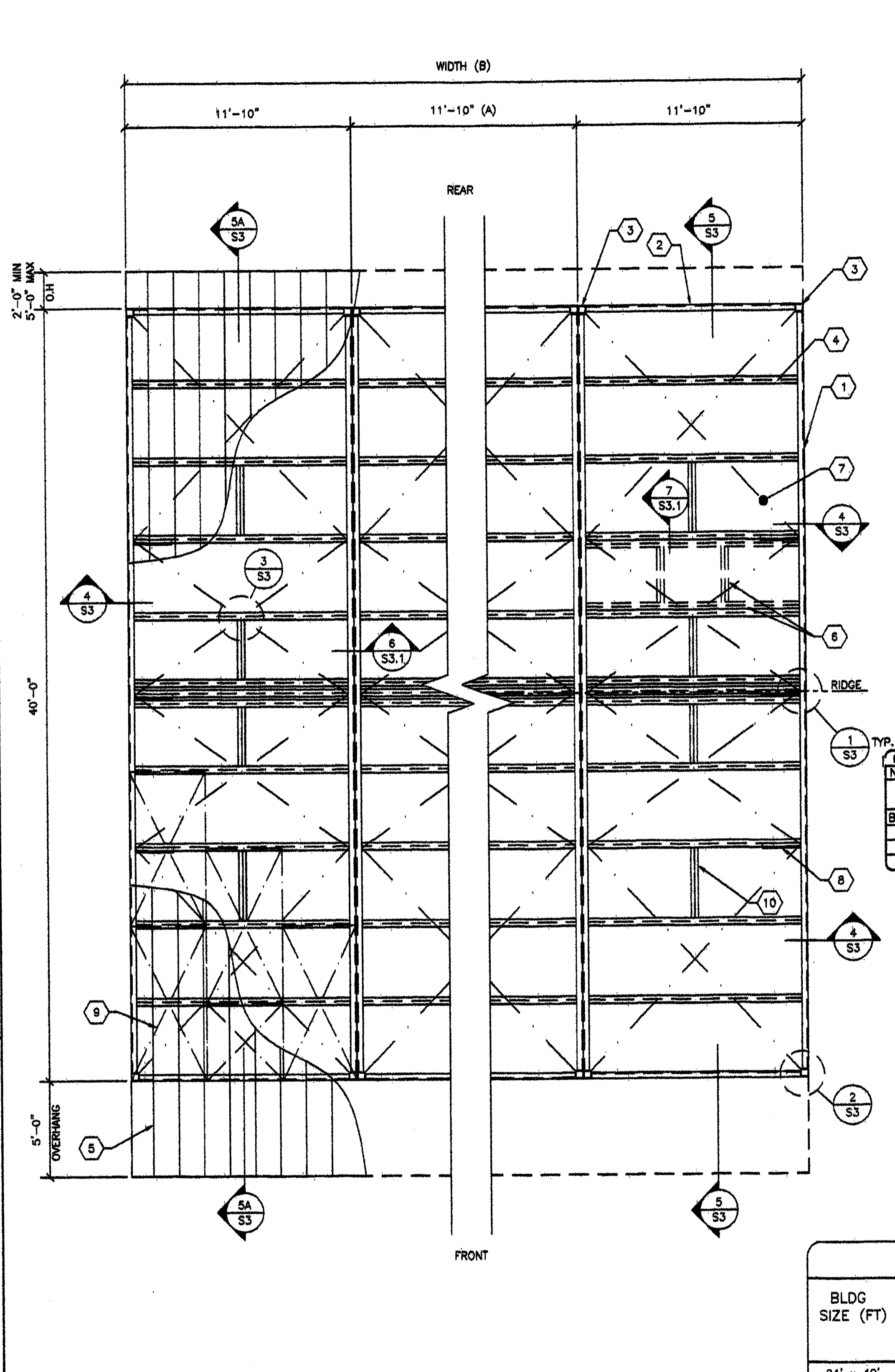
5 2'-0" OR 5'-0" OVERHANG DETAIL



3 TYP. CROSS BRACING DETAILS
@ ROOF PURLIN



5A 2'-0" OR 5'-0" OVERHANG DETAIL
OVERHANG W/PLYWOOD SHEATHING



A TYPICAL ROOF FRAMING LAYOUT
OPEN SOFFIT

- KEY NOTES -**
- LONGITUDINAL ROOF BEAM TYP. (SEE 10/S3.1)
 - 12 GA TRANSVERSE ROOF BEAM TYP. (SEE 11/S3.1)
 - HSS COLUMN PER SHEET S4
 - 2\"/>

FASTENING SCHEDULE

NAILING	0.144 PINS SPACING		# 10 SMS SPACING	
	TYPICAL	WITHIN 4' OF BUILDING CORNERS	TYPICAL	WITHIN 4' OF BUILDING CORNERS
BOUNDARY	6" O.C.	6" O.C.	6" O.C.	6" O.C.
EDGE	6" O.C.	6" O.C.	6" O.C.	6" O.C.
FIELD	12" O.C.	6" O.C.	12" O.C.	12" O.C.

ET & F 0.144 PINS PER ICC ESR #4144

- GENERAL NOTES -**
- THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
 - SEE SHEET S5 FOR TYP. SIDE WALL FRAMING.
 - SEE SHEET S5 FOR TYP. END WALL FRAMING.
 - ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/NEOPRENE WASHERS.

- MODULE SCHEDULE -

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL BLDG WIDTH
24' x 40'	2	0	23'-8 1/4"
36' x 40'	3	1	35'-8 1/2"
48' x 40'	4	2	47'-4 3/4"
60' x 40'	5	3	59'-3"
72' x 40'	6	4	71'-1 1/4"
84' x 40'	7	5	82'-11 1/2"
96' x 40'	8	6	94'-9 3/4"
108' x 40'	9	7	106'-8"
120' x 40'	10	8	118'-6 1/4"

REVISIONS

NO	DATE	DESCRIPTION

DATE: 02/06/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

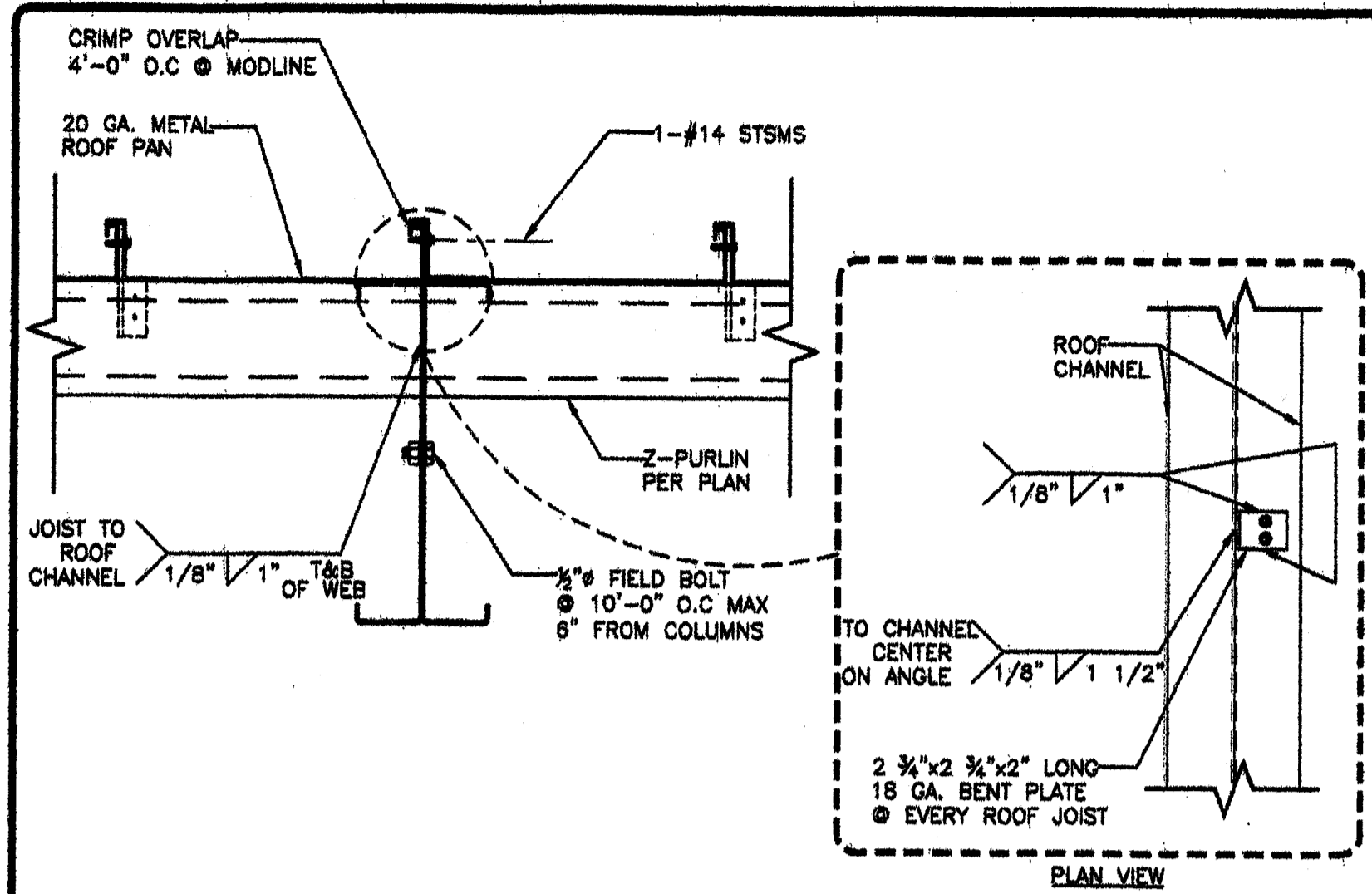
CUSTOMER:
2:12 PITCHED ROOF 24'x40' THRU 120'x40' RELOCATABLE BUILDINGS
ROOF FRAMING PLANS (OPEN SOFFIT)



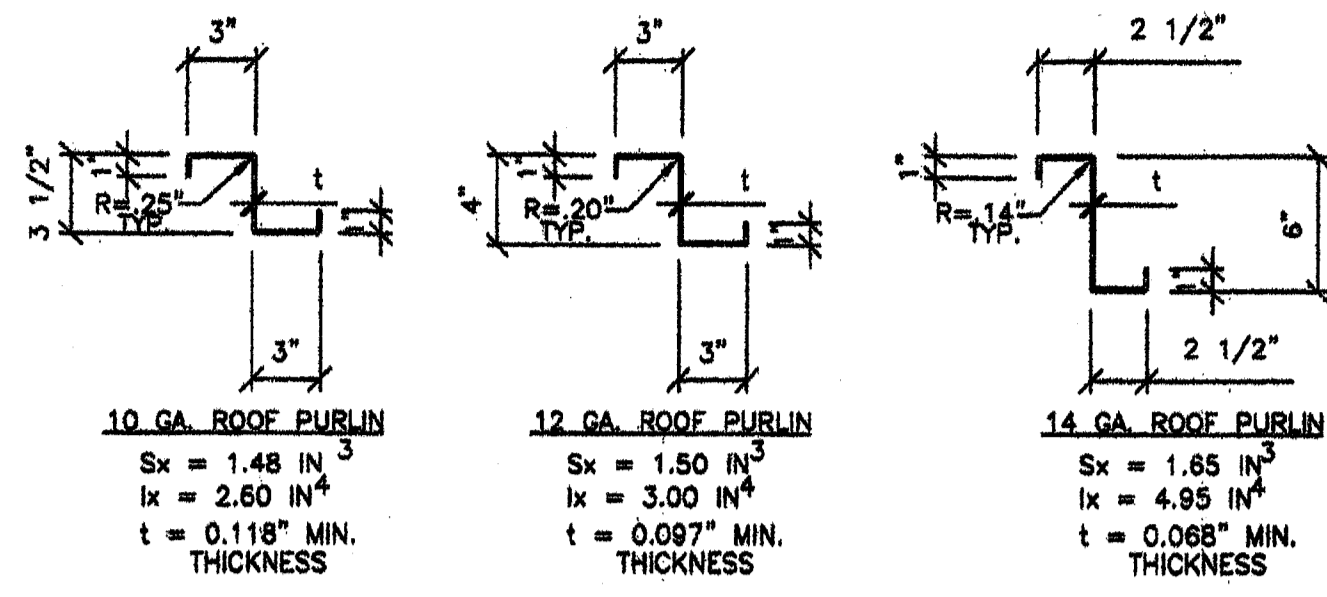
APPROVALS:
KERRIN A. LUTHE
REGISTERED PROFESSIONAL ENGINEER
No. 1418
Exp. 3-31-2011
STATE OF CALIFORNIA

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02 111642
AC: FLS, SS, GE
DATE: 1/12/11

PROJECT No.
PC
S3

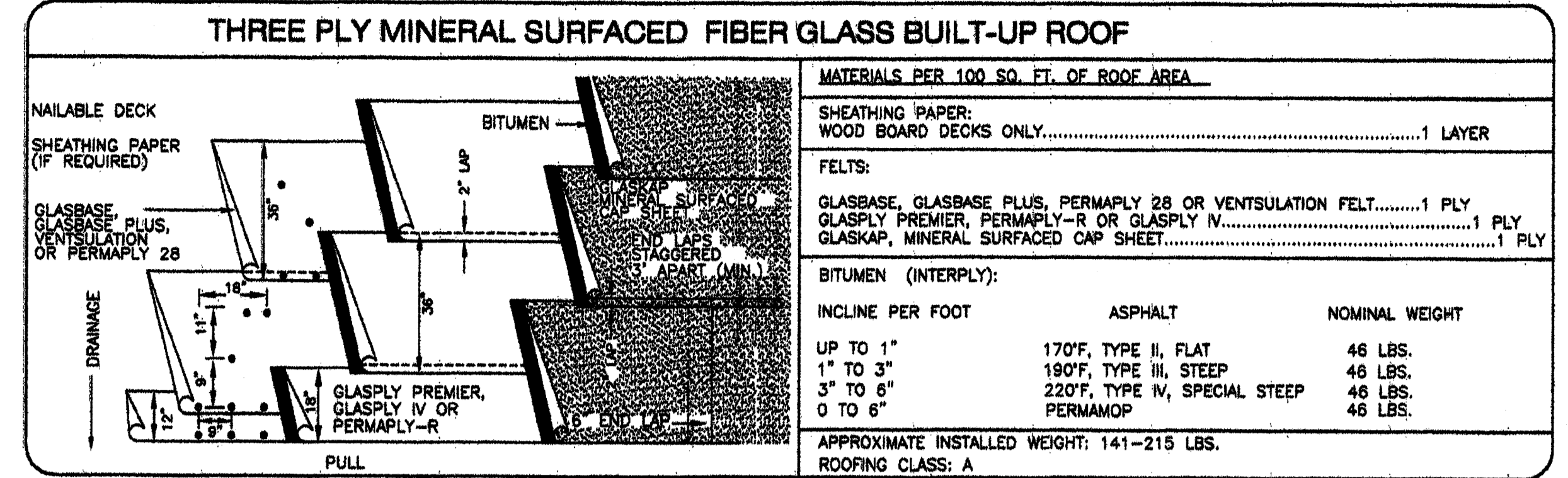


6 ROOF BEAM CONNECTION DETAIL
83.1 1 1/2"x1'-0"

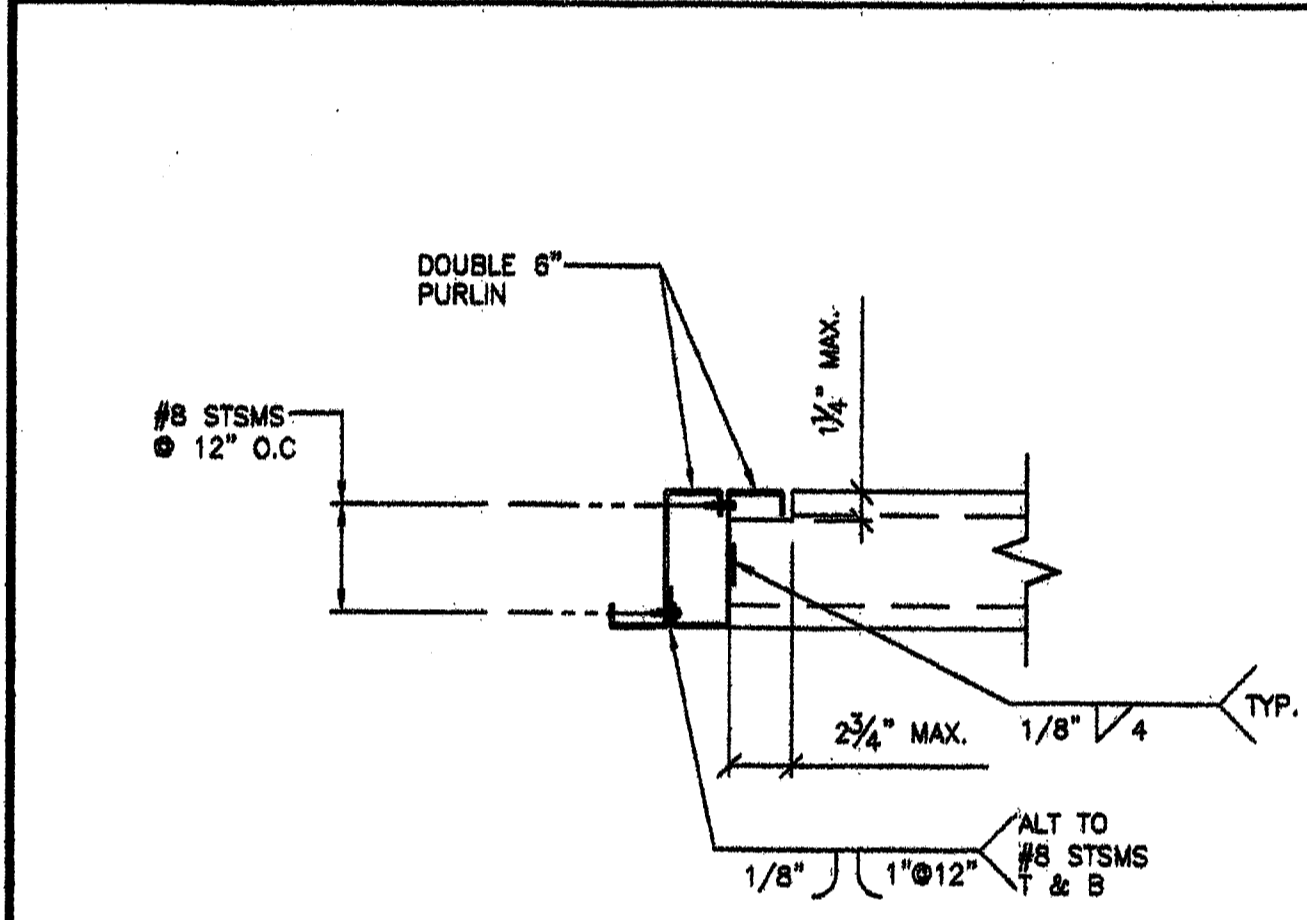


JOIST FABRICATED FROM ASTM A570 GRADE 58, HOT ROLLED SHEETS, JOISTS TO BE GIVEN A RUST INHIBITIVE COATING.

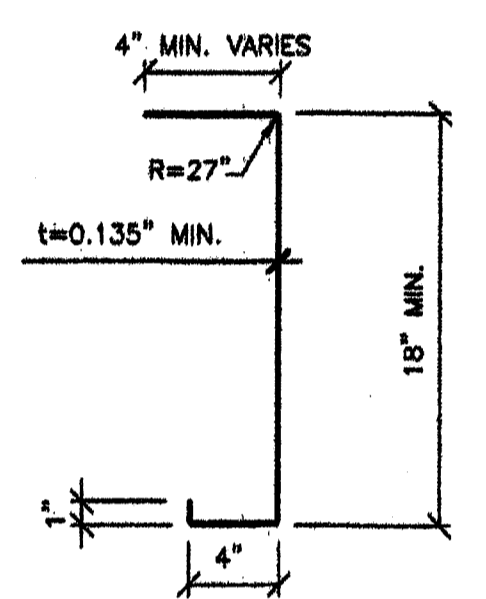
9 Z PURLINS DETAILS AND PROPERTIES
83.1 1 1/2"x1'-0"



12 THREE PLY MINERAL BUILT-UP ROOF
83.1 1 1/2"x1'-0"



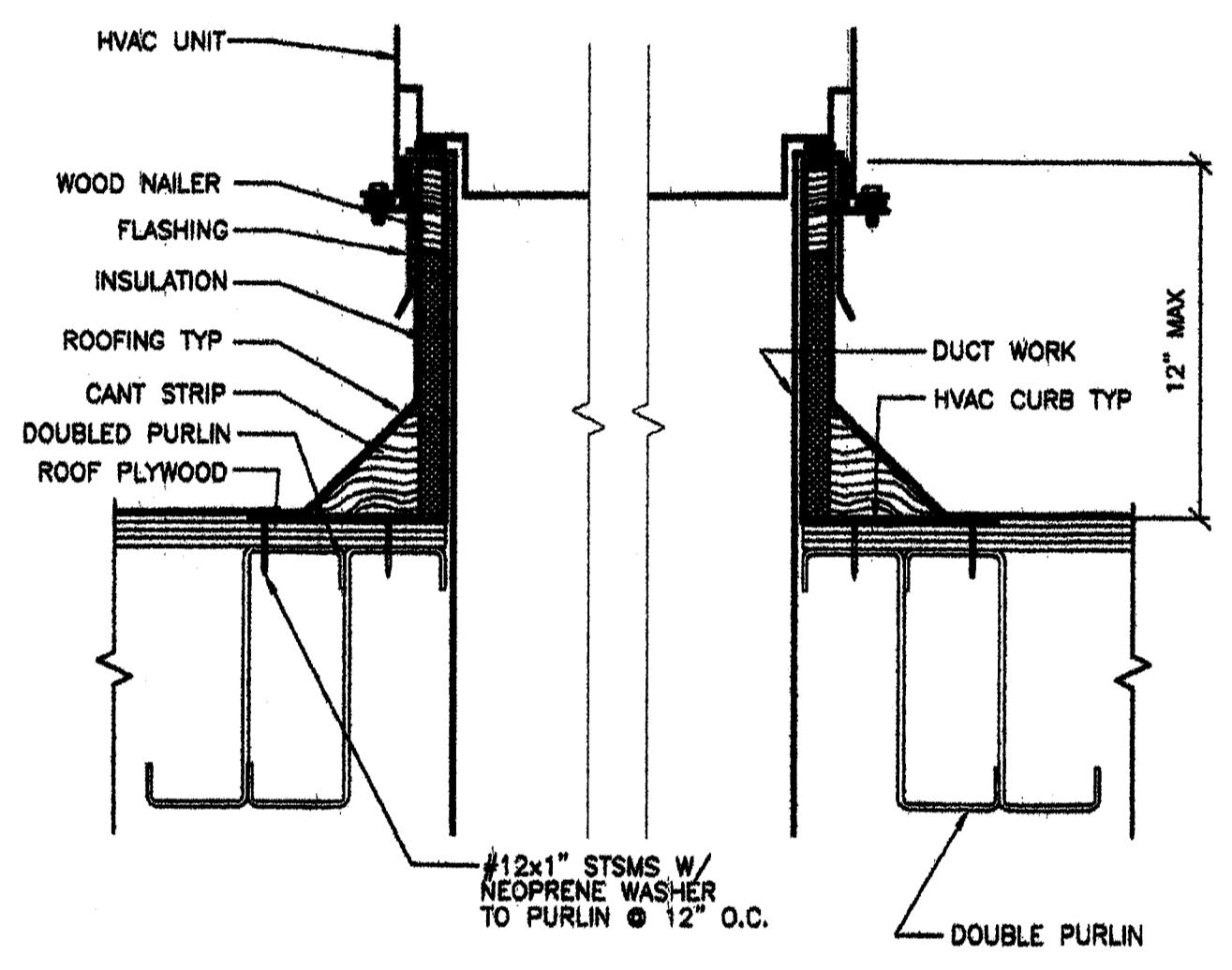
7 BLOCKING DETAIL
83.1 1 1/2"x1'-0"



A	3.71 IN ²
Sx MIN.	17.32 IN ³
Ix MIN.	159.80 IN ⁴

BEAM FABRICATED FROM ASTM A1011 GR50 W/RUST INHIBITIVE COATING.

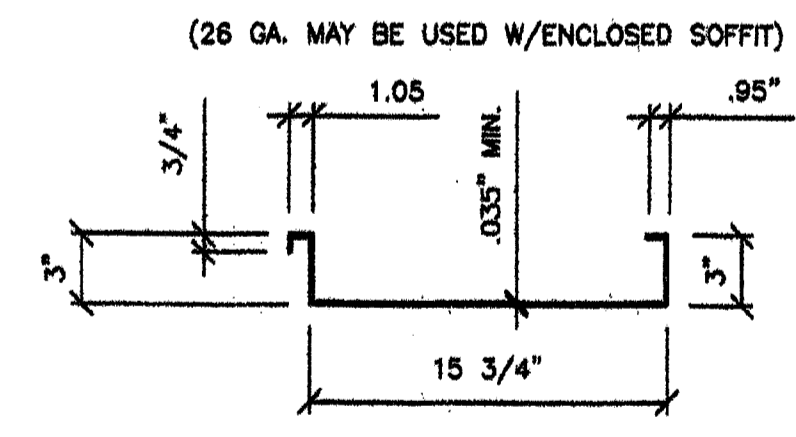
10 LONGITUDINAL ROOF BEAM
83.1 1 1/2"x1'-0"



12 HVAC CURB DETAIL ANCHORAGE
83.1 9"x1'-0"

- GENERAL NOTES -

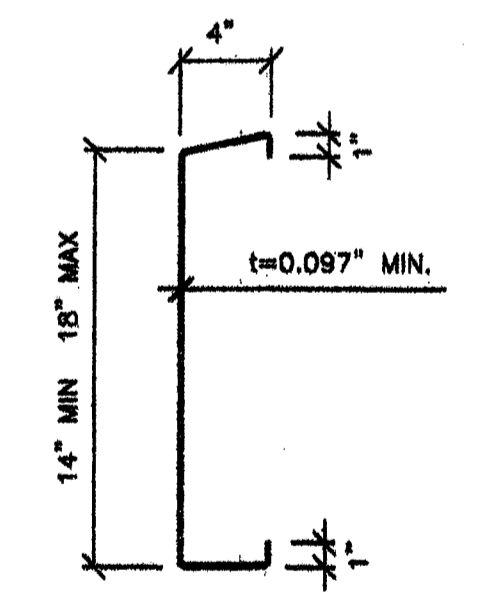
1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.



S _x (t) = 0.326 IN ³	S _x (b) = 0.323 IN ³
S _y (b) = 1.365 IN ³	S _y (t) = 0.283 IN ³
I _x = 0.789 IN ⁴	I _y = 0.452 IN ⁴

PAN FABRICATED FROM ASTM A1011 GRADE 50, HOT ROLLED SHEETS. PAN TO BE GIVEN A RUST INHIBITIVE COATING.

8 20 GA. ROOF PAN
83.1 1 1/2"x1'-0"



	14"	18"
A	2.36 IN ²	2.76 IN ²
Sx MIN.	9.58 IN ³	13.60 IN ³
Ix MIN.	67.016 IN ⁴	122.44 IN ⁴

BEAM FABRICATED FROM ASTM A1011 GR50 W/RUST INHIBITIVE COATING.

11 12 GA. ROOF CHANNEL
83.1 1 1/2"x1'-0"

NO.	DATE	DESCRIPTION

DATE: 02/12/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS ROOF FRAMING PLANS (OPEN SOFFIT)

AMS
American Modular Systems Inc.
787 Spretella Ave. Marneca, CA 95336
(916) 955-1821 Fax (916) 955-7016
amer@ammodular.com

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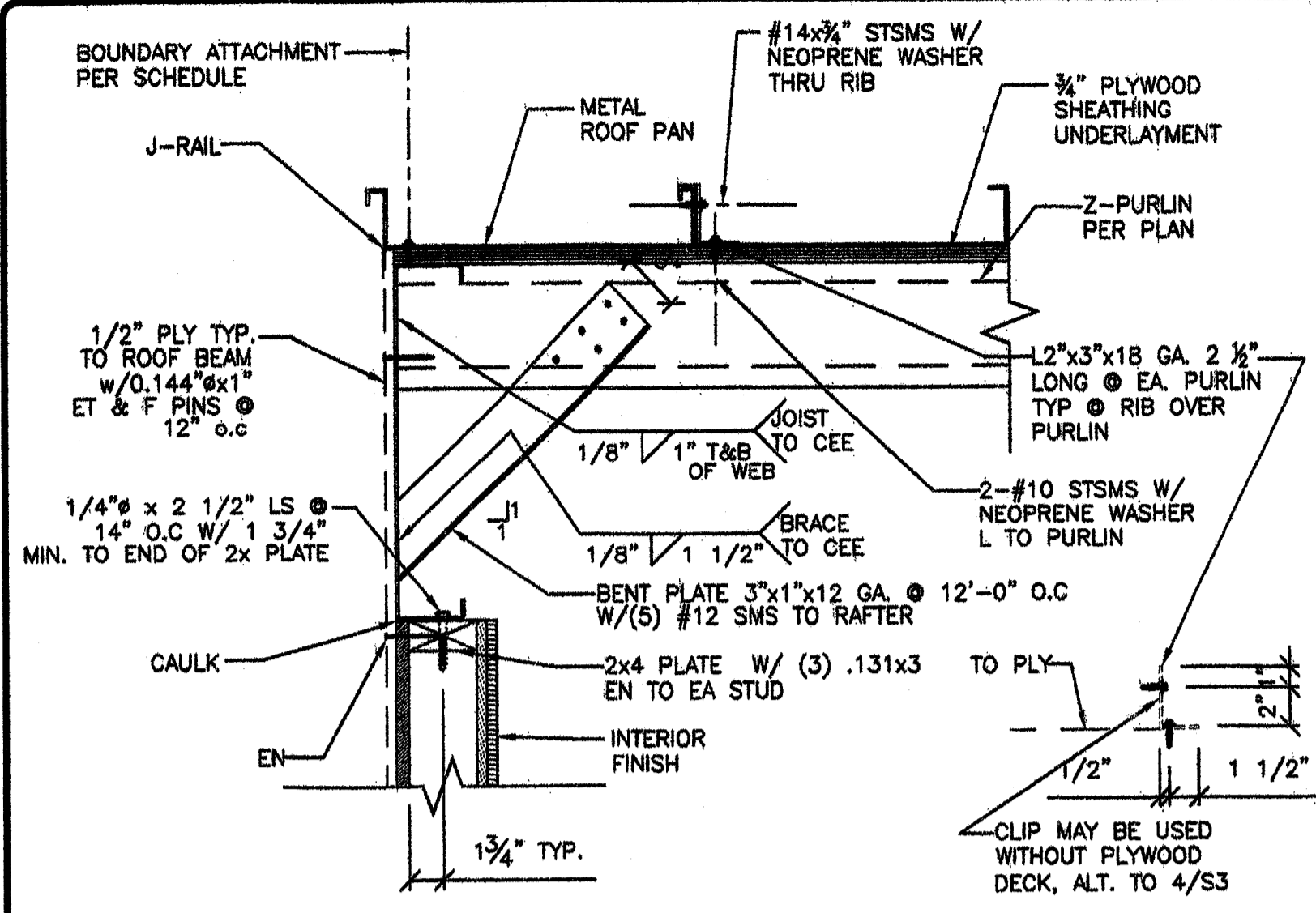
Kenneth A. Lyttel
No. 4418
Exp. 5-31-11
Structural Engineer
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
No. C12831
Exp. 3-31-2011
STATE OF CALIFORNIA

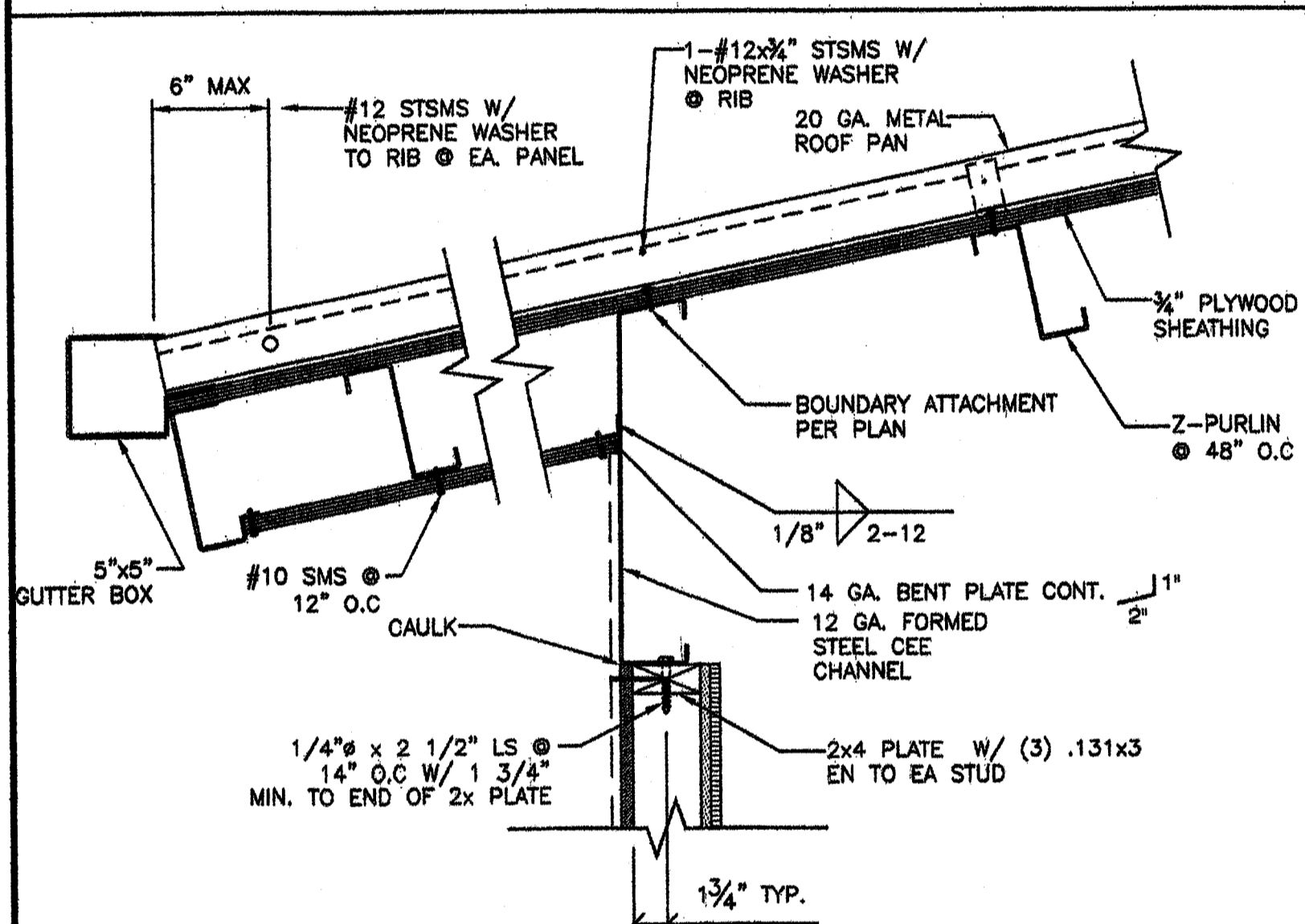
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AC - FLS - SS GR
DATE 1/12/11

PROJECT No.
PC
S3.1

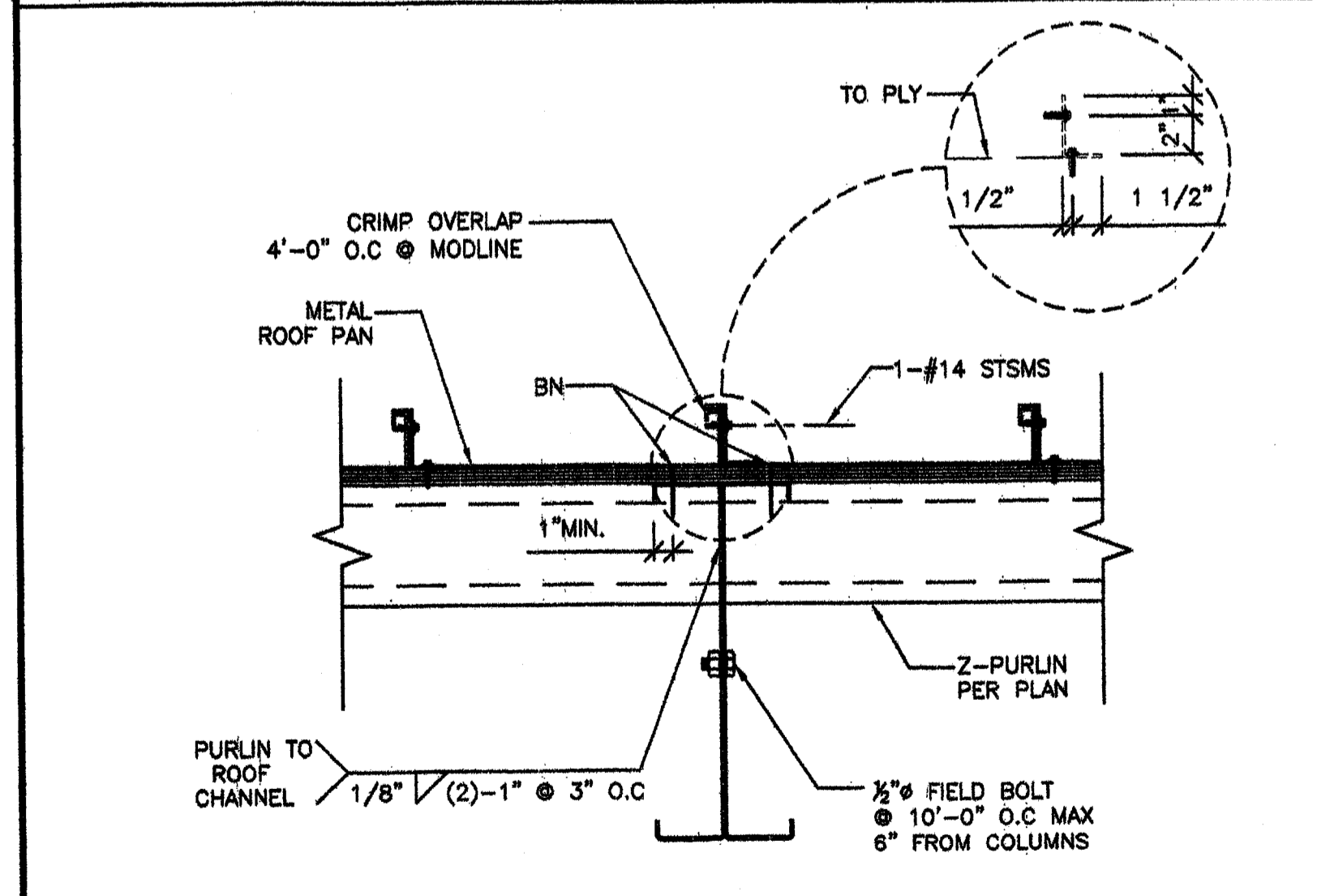
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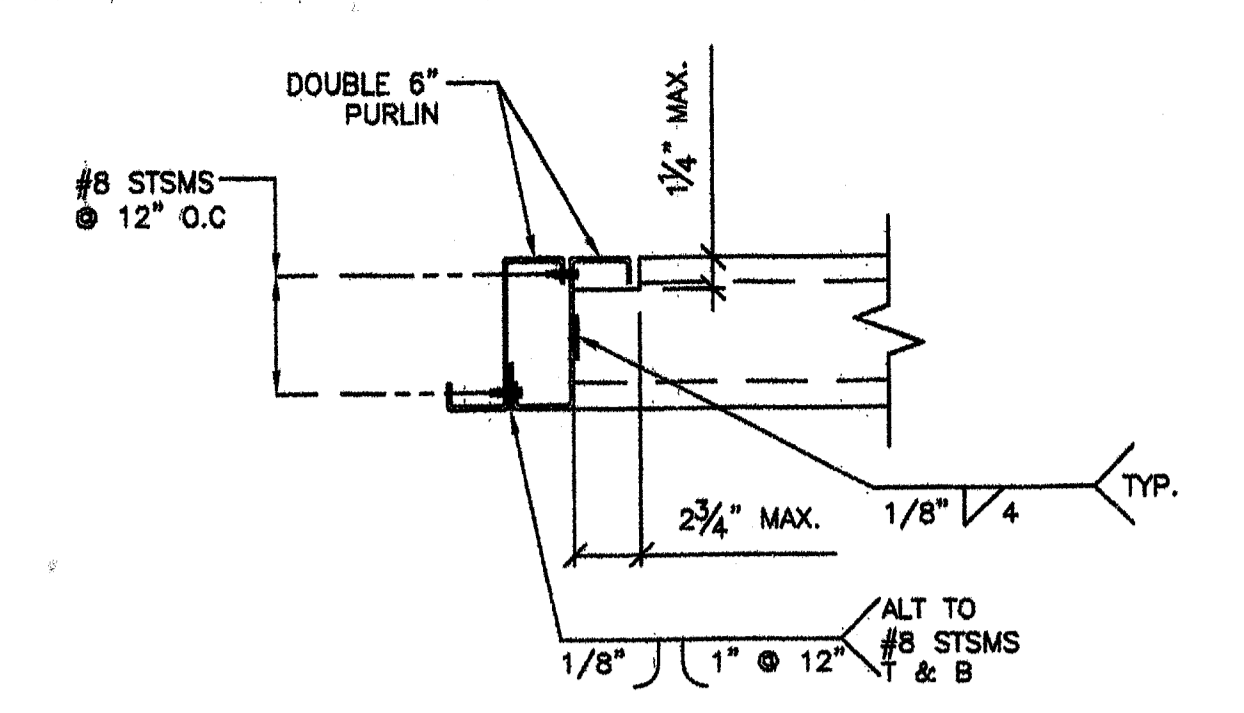
1 TYP. PLYWOOD SHEATHING
SSA 1 1/2"=1'-0"



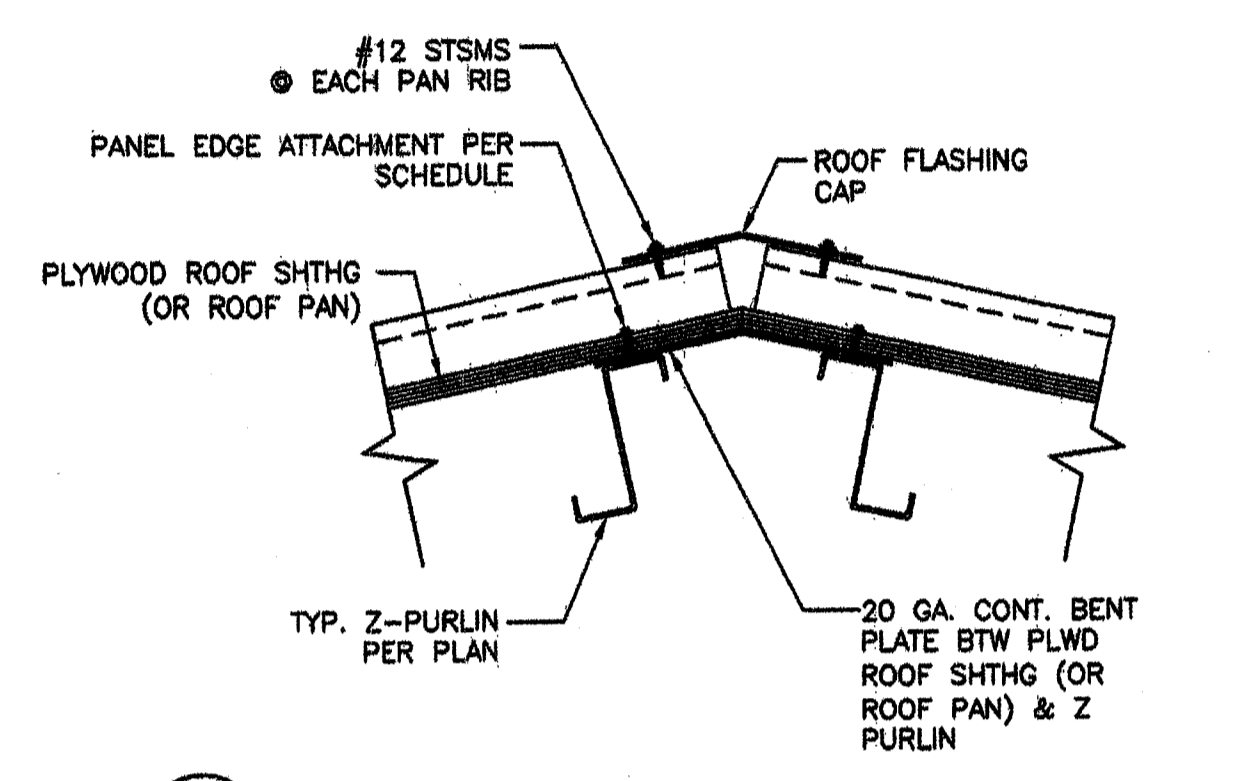
2 OVERHANG DETAIL
SSA 1 1/2"=1'-0"



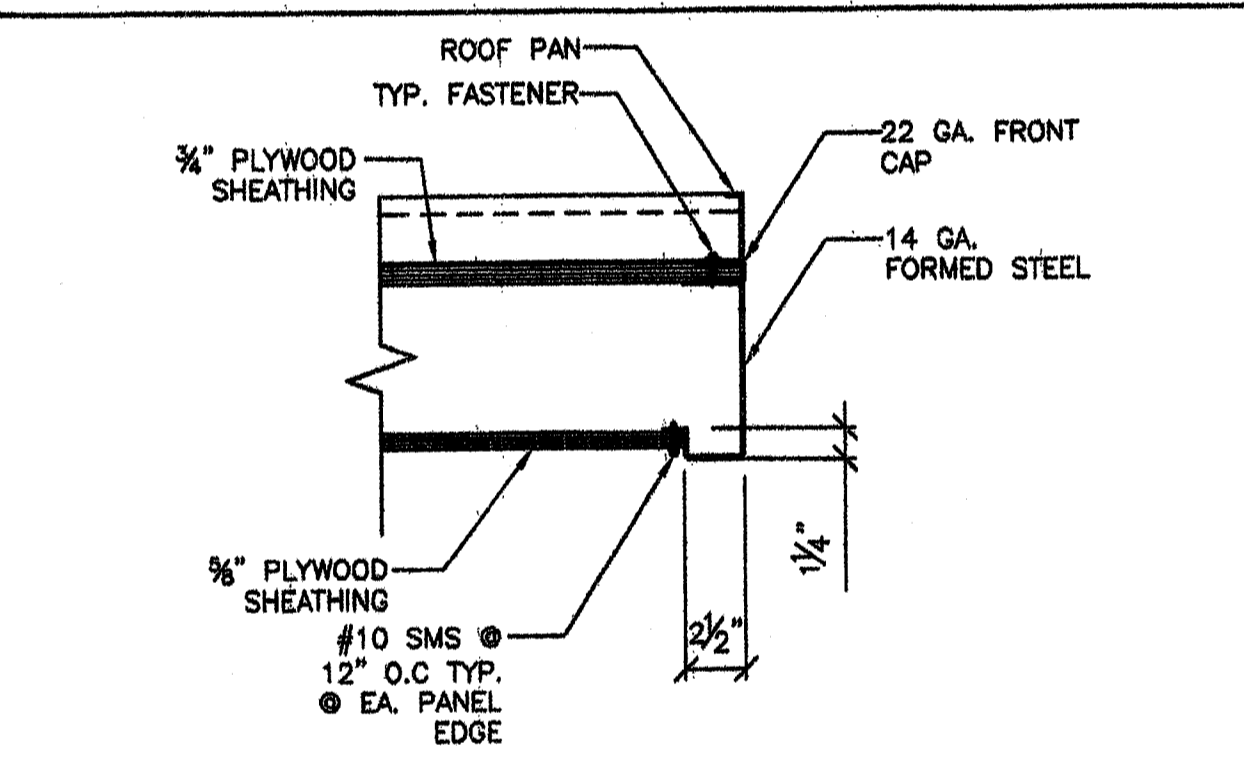
3 ROOF BEAM CONNECTION DETAIL
SSA 1 1/2"=1'-0"



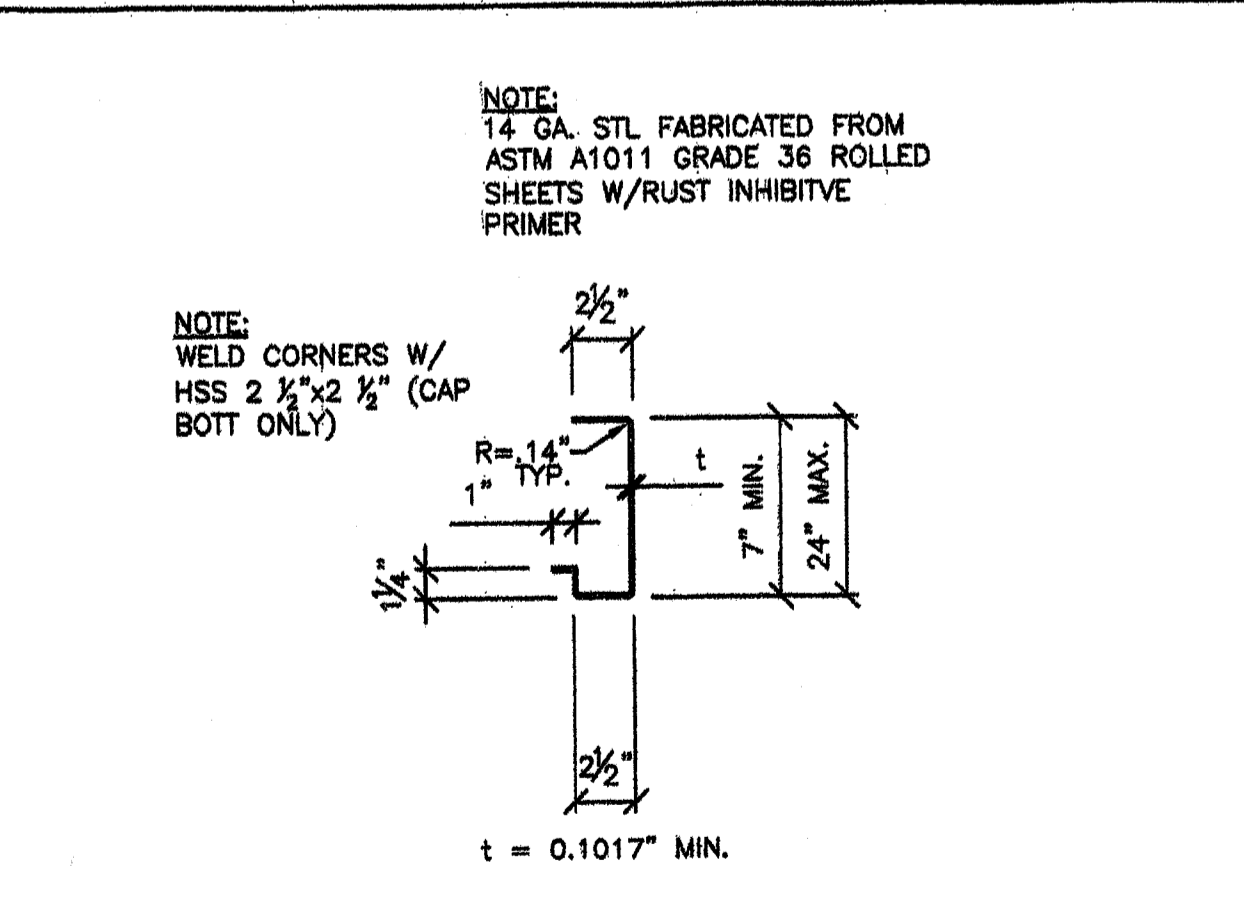
4 BLOCKING DETAIL
SSA 1 1/2"=1'-0"



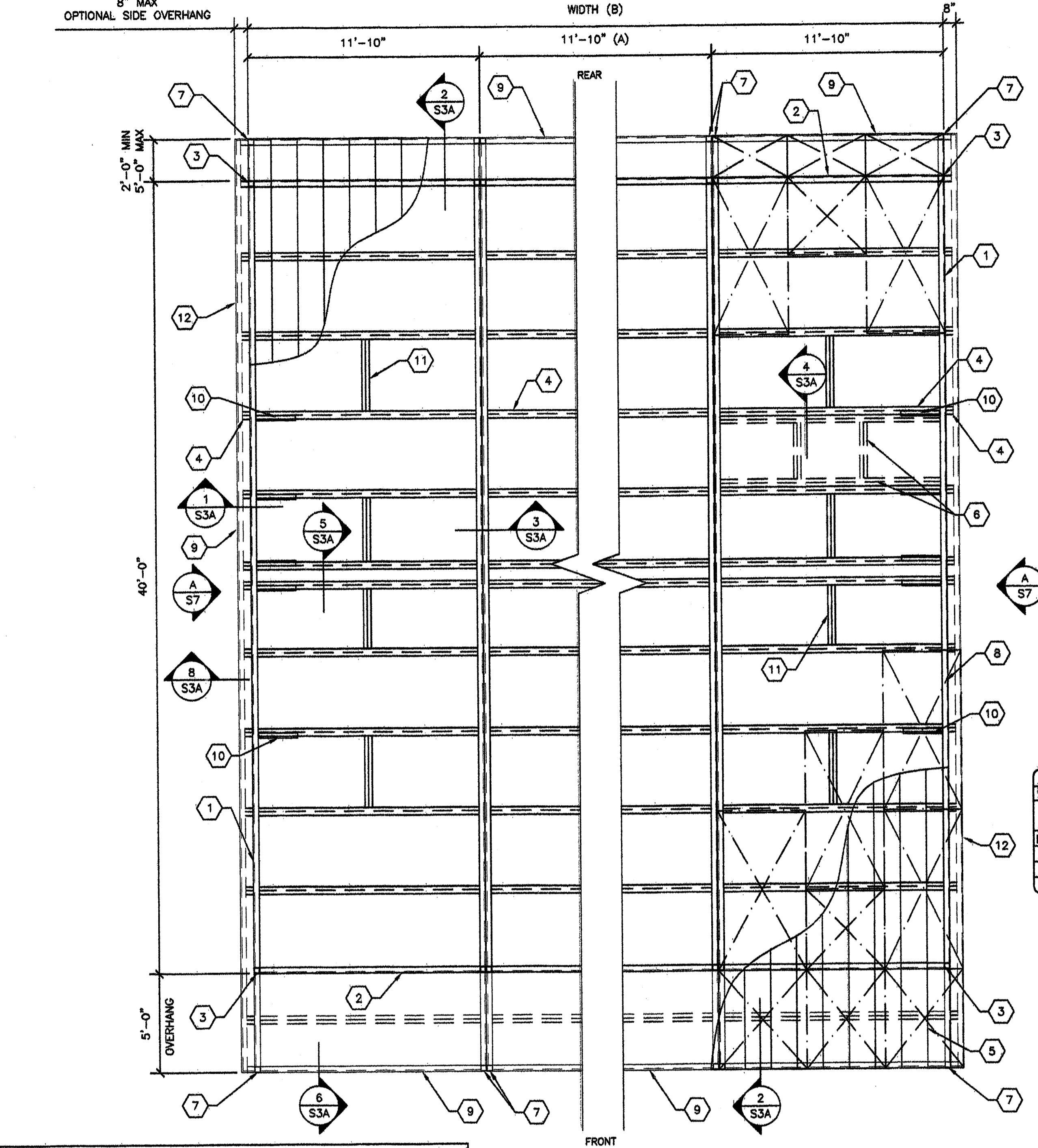
5 HIGH PITCH RIDGE DETAIL
SSA 1 1/2"=1'-0"



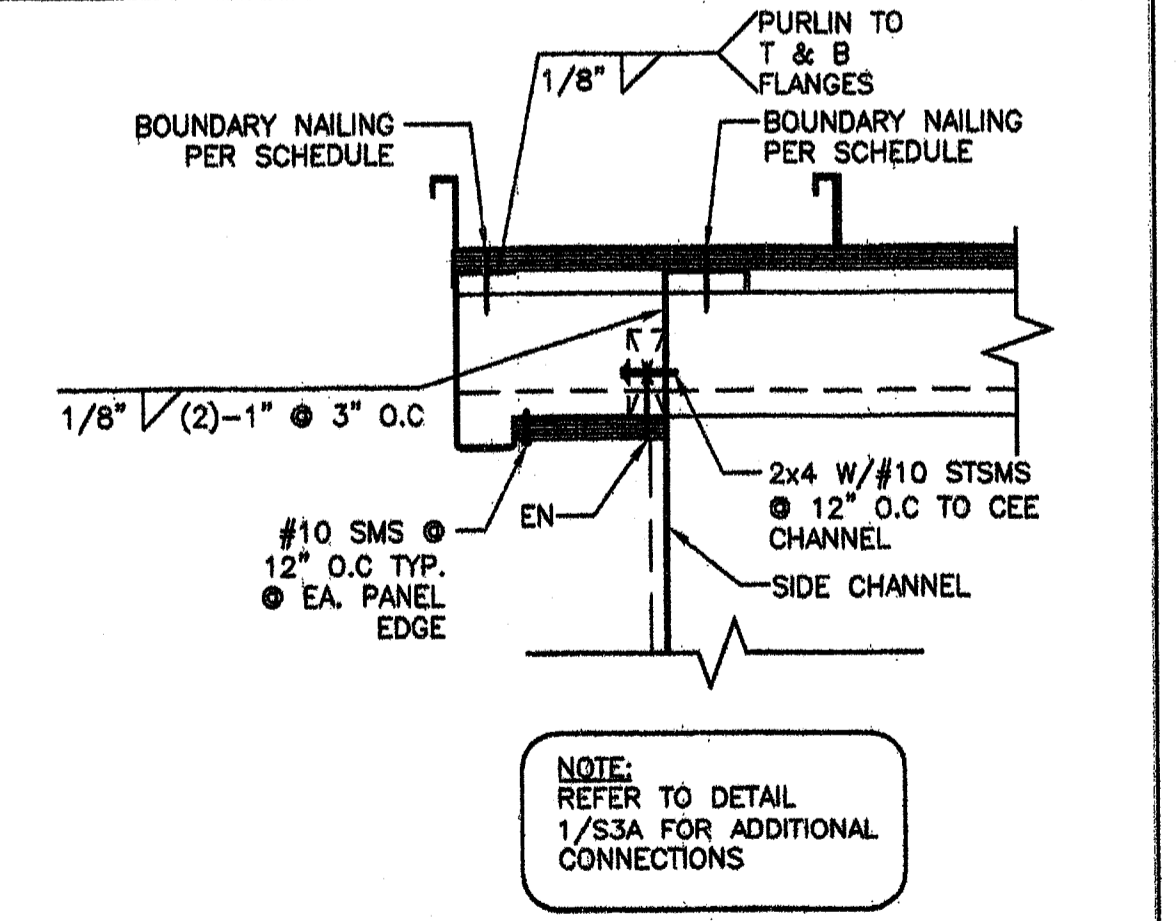
6 ENCLOSED SOFFIT DETAIL
SSA 1 1/2"=1'-0"



7 14 GA. FORMED STEEL CEE
SSA 1 1/2"=1'-0"



8 TYPICAL ROOF FRAMING LAYOUT
SSA 1/4"=1'-0"



9 SIDE WALL OVERHANG DETAIL (OPTIONAL)
SSA 1 1/2"=1'-0"

- KEY NOTES -
- LONGITUDINAL ROOF BEAM TYP. (SEE 10/S3.1)
 - 12 GA TRANSVERSE ROOF BEAM TYP. (SEE 11/S3.1)
 - HSS COLUMN PER SHEET S4
 - Z FORMED ROOF PURLINS @ 48" O.C. MAX (SEE 9/S3.1)
 - 20 GA. ROOF PAN 3 SPAN CONTINUOUS MIN. (SEE 8/S3.1)
 - PROVIDE DOUBLE 6" PURLINS W/6" PURLIN BLKS PER 4/S3.A @ OPTIONAL ROOF MOUNT HVAC. (MAX WEIGHT 600#)
 - 14 GA. 2 1/2" x 2 1/2" HSS PER 7/S3.A
 - ALTERNATE TO CROSS BRACING: 3/4" APA RATED L-P OSB SHEATHING OR 3/4" ROOF SHING CD EXPOSURE 1 BLW ROOF PAN, SPAN INDEX: 4/8, GRAIN NORMAL TO RAFTERS. NAILING: ET & F POWER DRIVEN PINS, UNO. (REFER TO FASTENING SCHEDULE BELOW FOR TYPICAL NAILING SPACING). ROOF SHING MAY REPLACE STRIP CROSS BRACING ALL BOUNDARY, EDGE & FIELD ATTACHMENTS SHALL BE 1" MIN. FROM EDGE OF PLYWOOD & 3/4" MIN. FROM EDGE OF STEEL SUPPORTING MEMBER
 - 14 GA. FORMED STEEL CEE
 - 3x1x12 GA. BENT PLATE BRACE PER 1/S3.A @ EA. STRAP TO 10 GA. BM CONNECTION @ 12'-0" O.C. MAX @ EXTERIOR WALL ONLY. PROVIDE 2 @ RIDGE @ EACH BRACE PER NOTE 11 BELOW.
 - PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 4/S3.A. BLOCKING IS ONLY REQUIRED AT THE OUTSIDE MODULES @ PURLINS WITH DIAGONAL BRACING PER NOTE 10 ABOVE.
 - OPTIONAL SIDE OVERHANGS

FASTENING SCHEDULE

NAILING	0.144 PINS SPACING		# 10 SMS SPACING	
	TYPICAL	WITHIN 4' OF BUILDING CORNERS	TYPICAL	WITHIN 4' OF BUILDING CORNERS
BOUNDARY	6" O.C.	6" O.C.	6" O.C.	6" O.C.
EDGE	6" O.C.	6" O.C.	6" O.C.	6" O.C.
FIELD	12" O.C.	6" O.C.	12" O.C.	12" O.C.

ET & F 0.144 PINS PER ICC ESR #4144

- GENERAL NOTES -
- THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
 - SEE SHEET S5 FOR TYP. SIDE WALL FRAMING.
 - SEE SHEET S5 FOR TYP. END WALL FRAMING.
 - ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED W/NEOPRENE WASHERS.

- MODULE SCHEDULE -

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL BLDG WIDTH
24' x 40'	2	0	23'-8 1/4"
36' x 40'	3	1	35'-6 1/2"
48' x 40'	4	2	47'-4 3/4"
60' x 40'	6	3	60'-3"
72' x 40'	6	4	71'-1 1/4"
84' x 40'	7	5	82'-11 1/2"
96' x 40'	8	6	94'-9 3/4"
108' x 40'	9	7	106'-8"
120' x 40'	10	8	118'-6 1/4"

REVISIONS

NO	DATE	DESCRIPTION

DATE: 12/16/10
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
BAKERSFIELD CITY SCHOOL DISTRICT
McKINLEY

2:12 PITCHED ROOF 24'x 40' RELOCATABLE BUILDINGS
ROOF FRAMING PLANS (PLYWOOD SHEATHING)

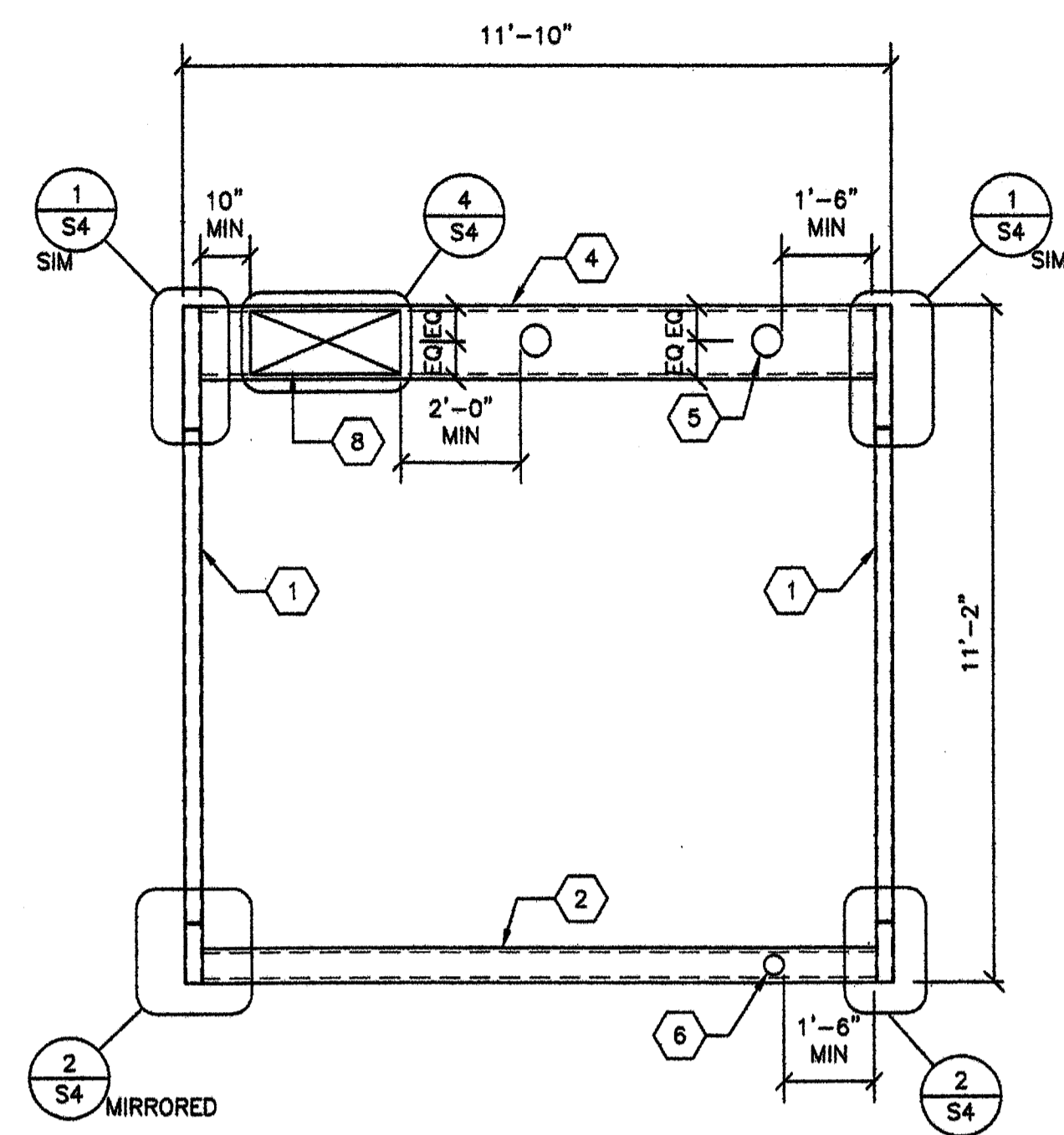
AMS
American Modular Systems Inc.
787 Spruiell Ave. Manteca, CA 95336
(209)825-1921 Fax: (209)825-7018
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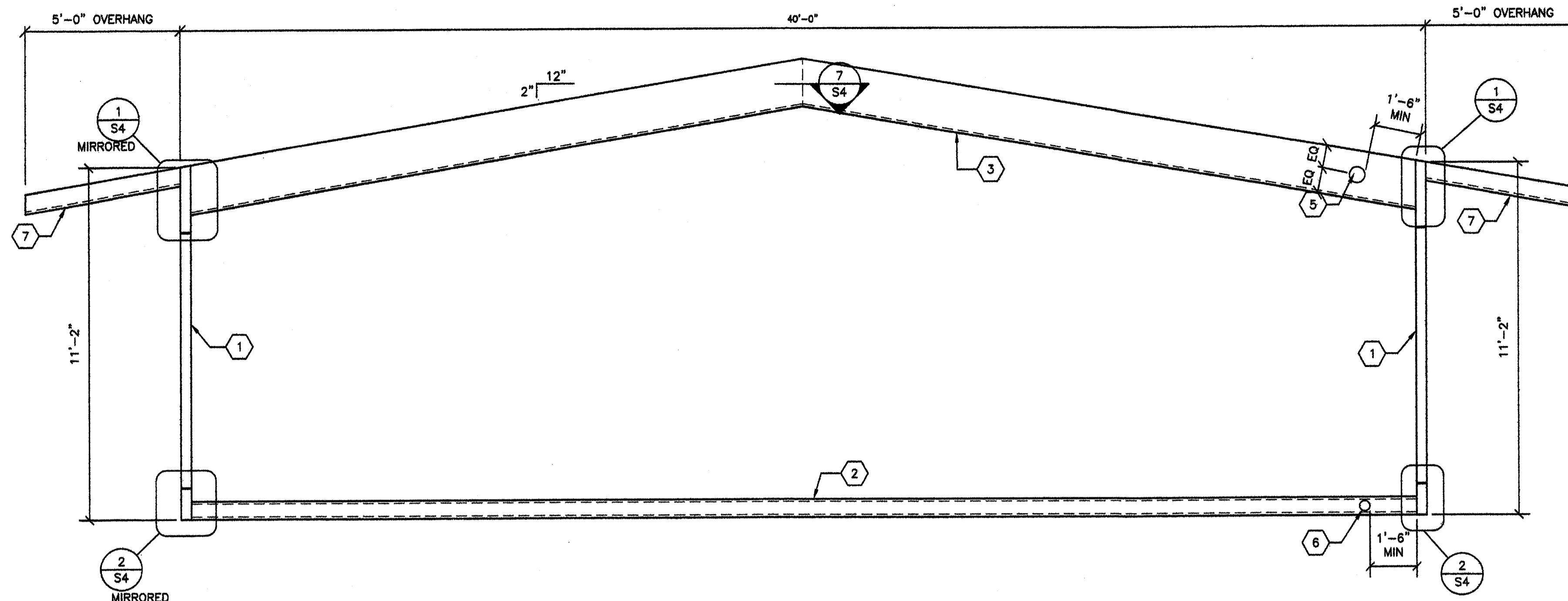
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02-111612
AC: FLS: SS: GR
DATE: 11/2/11

PROJECT NO.
PC

S3A



B TYPICAL TRANSVERSE FRAME
S4 3/8"=1'-0"



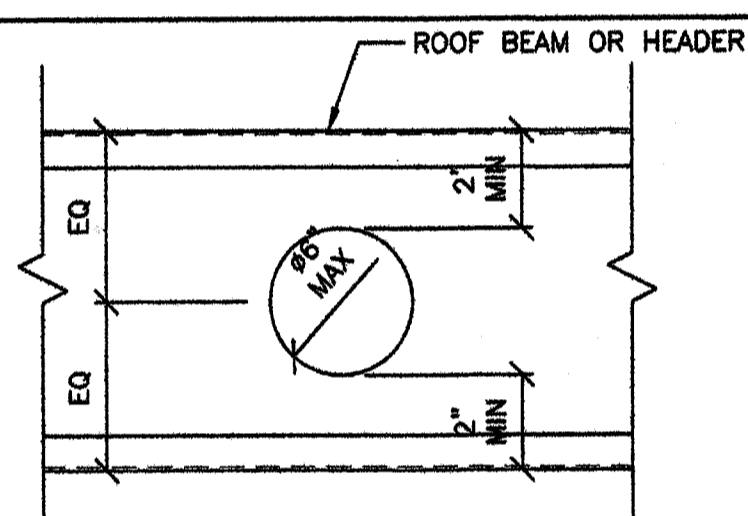
A TYPICAL LONGITUDINAL FRAME
S4 3/8"=1'-0"

- KEY NOTES -

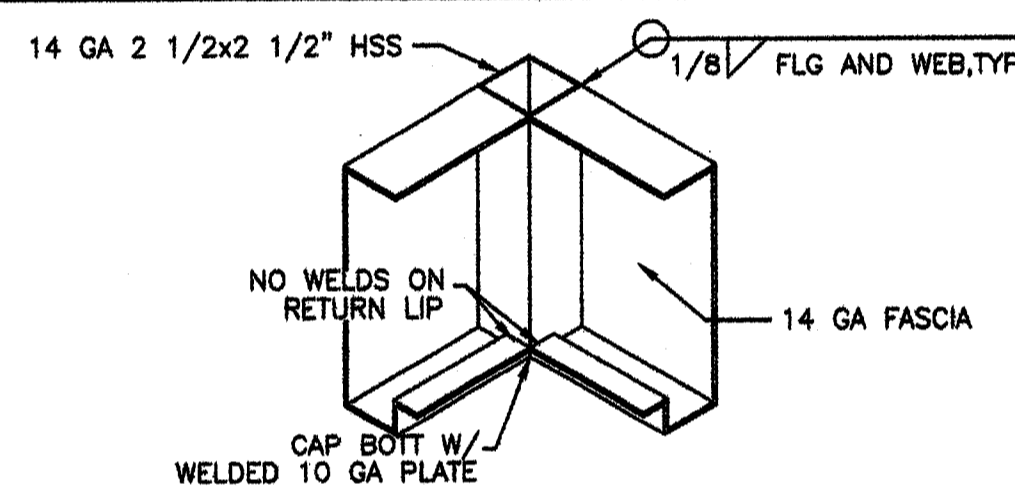
- 1 HSS 4x4x5/16" COLUMN
- 2 FLOOR BEAM PER SCHEDULE BELOW
- 3 LONGITUDINAL ROOF CHANNEL PER 10/S3.1
- 4 12 GA. TRANSVERSE ROOF CHANNEL 14" MIN 18" MAX PER 11/S3.1
- 5 6" # MAX OPENING IN WEB OF ROOF BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION NOTE: IF HOLE IS 3" OR LESS THEY MAY BE SPACED AT 24" O.C. MINIMUM
- 6 4" # MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM WITH DIRECT FOUNDATION SUPPORT BELOW. OPENINGS ARE NOT ALLOWED WHERE BEAMS ARE SPANNING BETWEEN FOUNDATIONS OR ACROSS VENT OPENINGS. NOTE: IF HOLE IS 2" OR LESS THEY MAY BE SPACED AT 24" MINIMUM
- 7 12 GA OUTRIGGER CHANNEL AT ENCLOSED OVERHANG REFER TO DETAIL 1/S4
- 8 OPENING FOR HVAC UNIT

- FLOOR BEAM SCHEDULE -

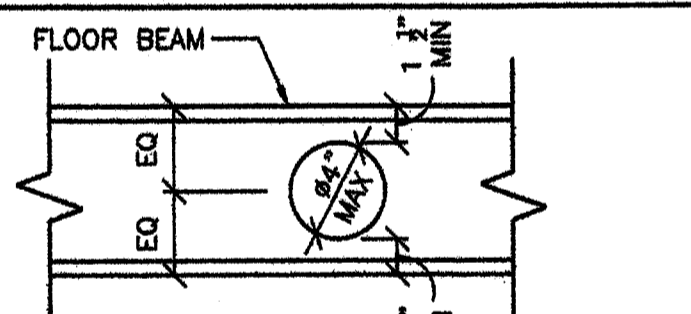
SUBFLOOR TYPE	FLOOR BEAM SIZE	ALTERNATES
VIROC OR PLYWOOD	C7x9.8	C9x13.4, C10x15.3
CONCRETE	C9x13.4	C10x15.3



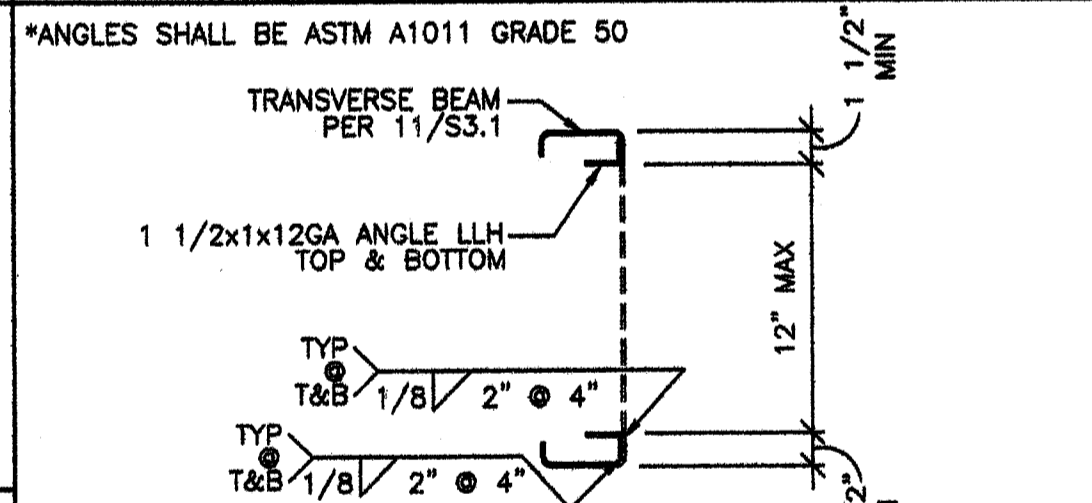
5 OPENING @ ROOF BEAMS
S4 1 1/2"=1'-0"



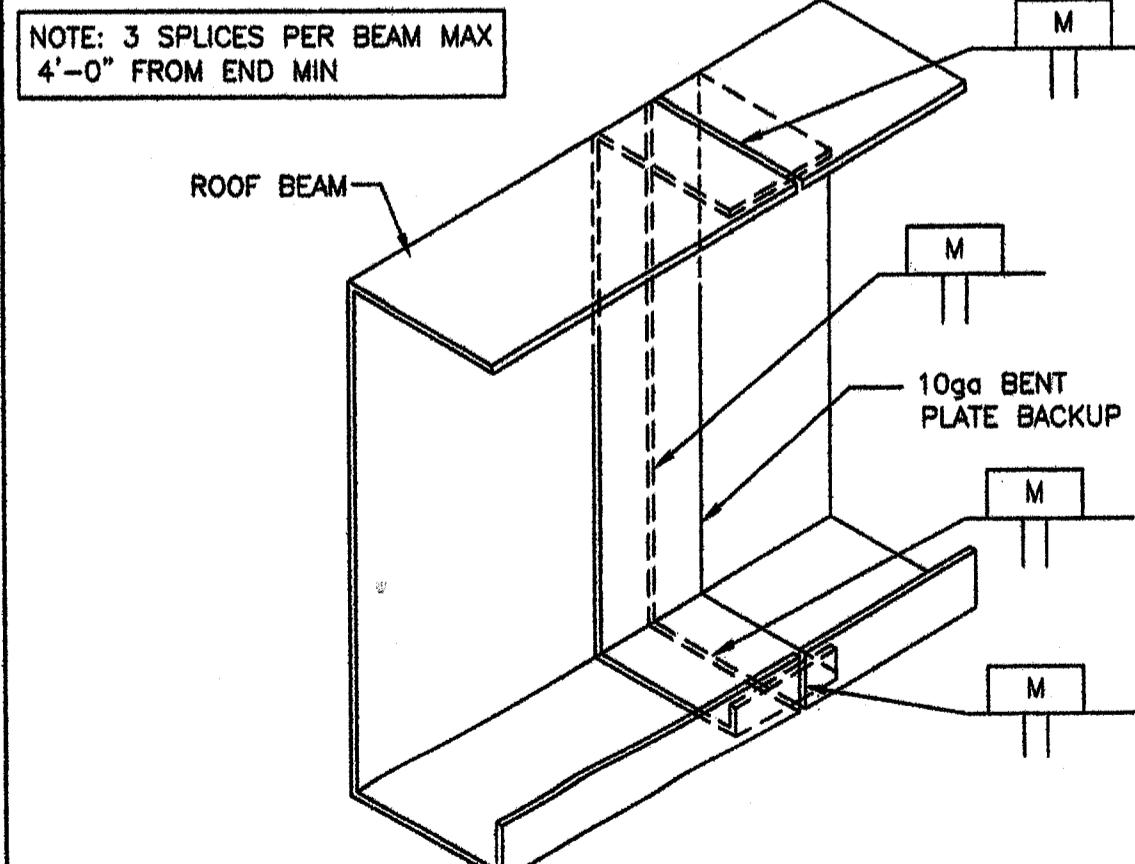
3 OVERHANG CORNER DETAIL
S4 N.T.S.



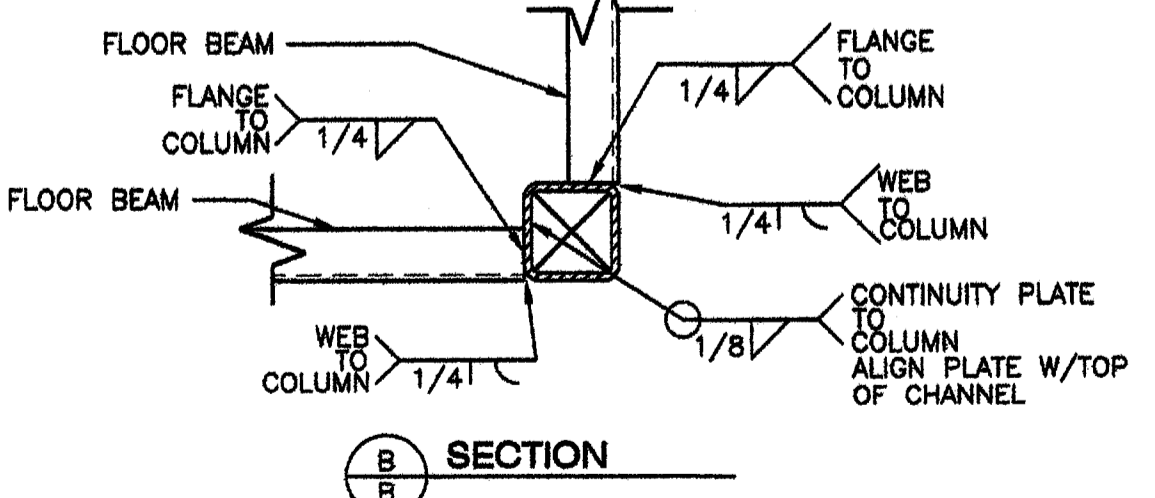
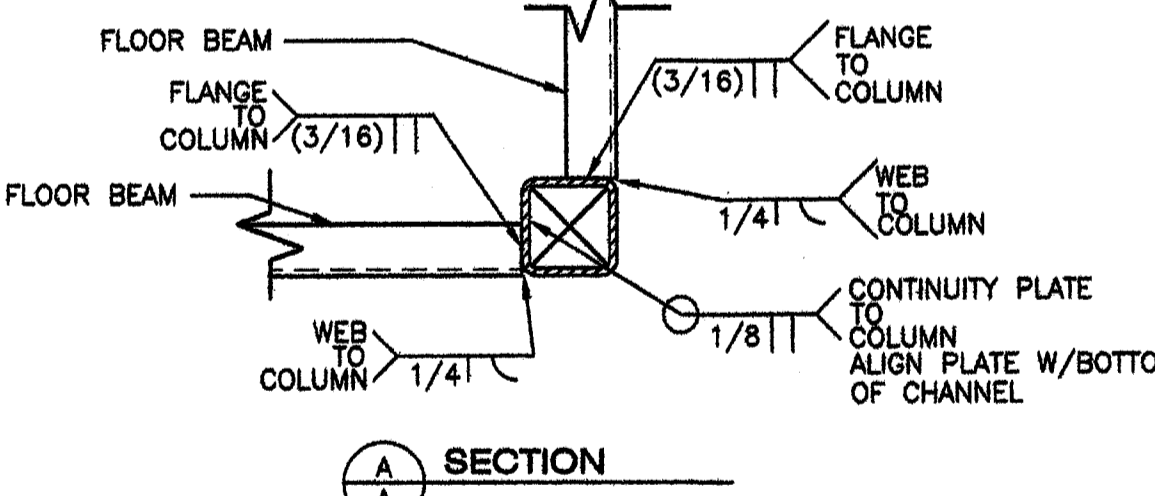
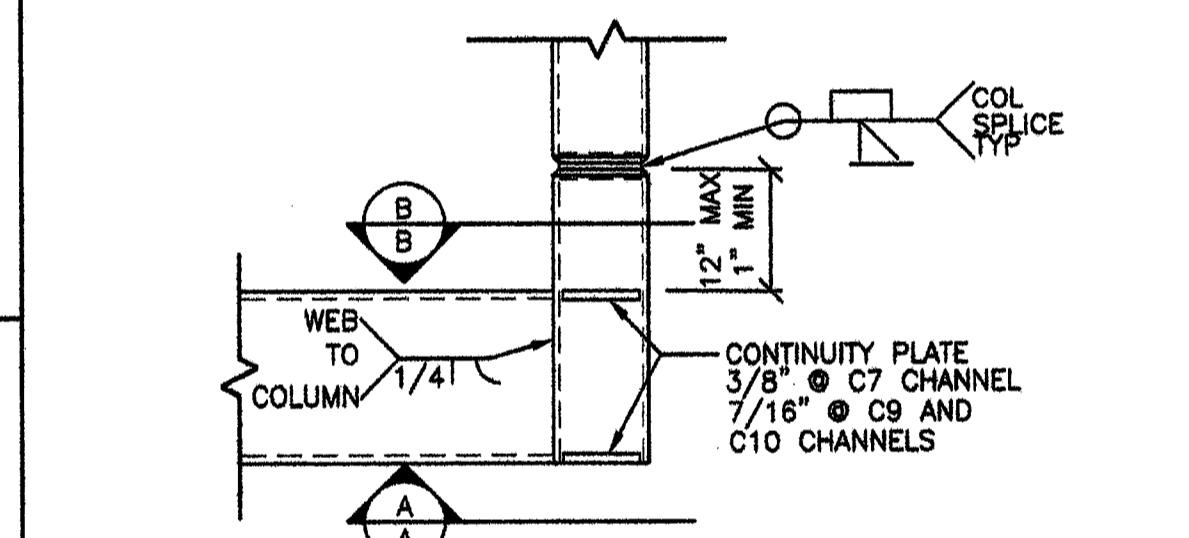
6 OPENING @ FLOOR BEAM
S4 1 1/2"=1'-0"



4 OPENING @ TRANSVERSE ROOF BEAMS
S4 1 1/2"=1'-0"

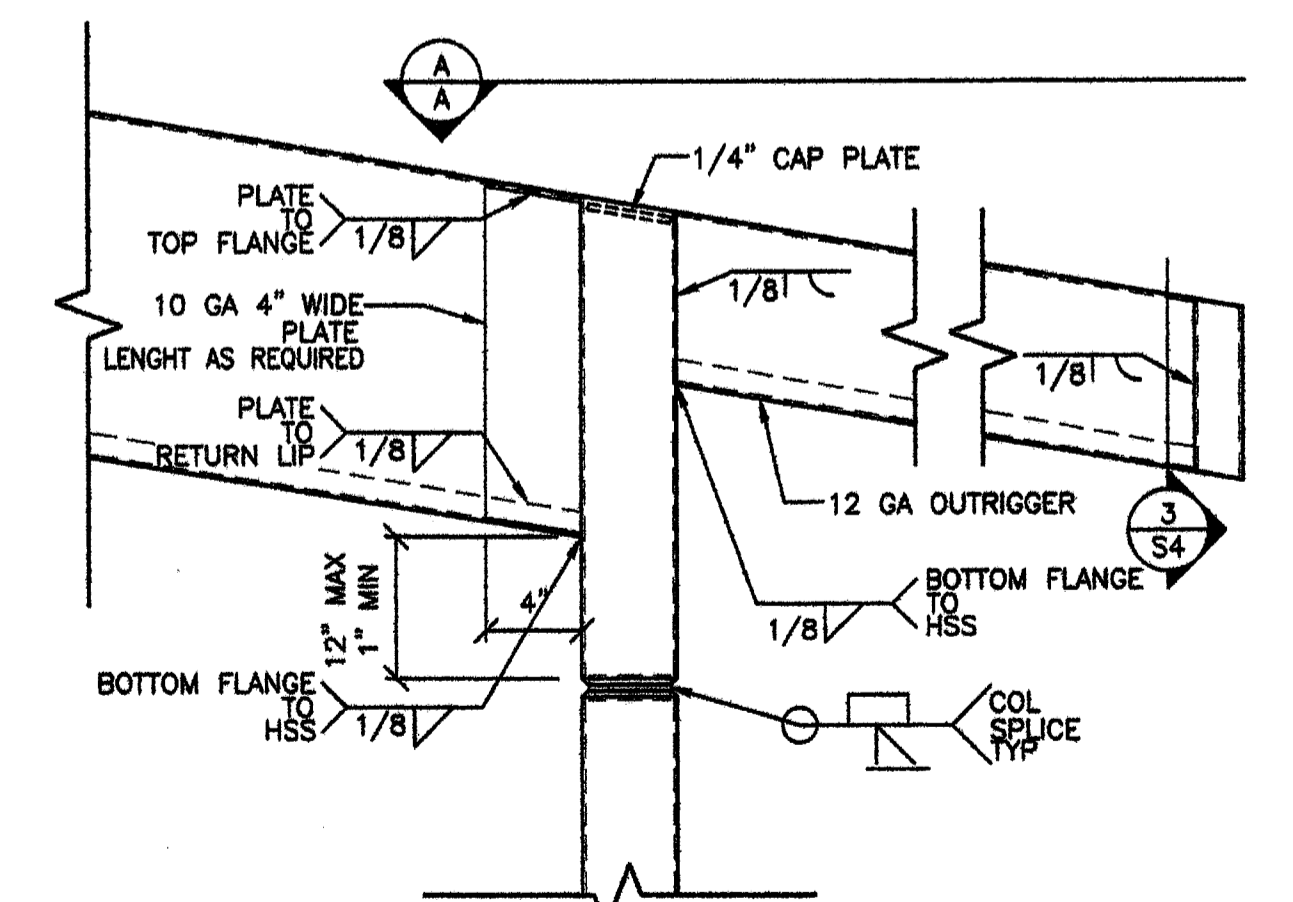
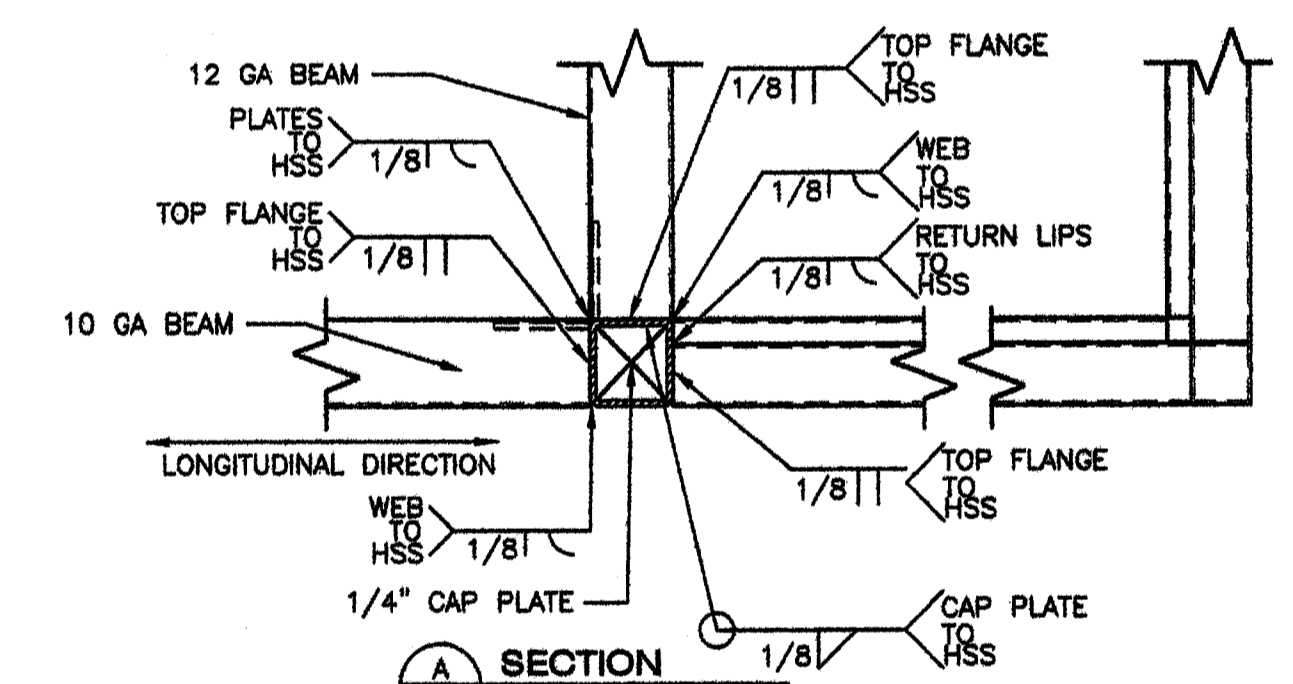


7 TYPICAL BEAM SPLICE
S4 N.T.S.



2 TYPICAL CORNER TO BEAM DETAIL
S4 1 1/2"=1'-0"

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D.1-06 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A. TYPICAL DETAILS 1/S4A, 2/S4A AND 7/S4A. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.



1 TYPICAL ROOF CHANNEL TO HSS DETAIL
S4 1 1/2"=1'-0"

REVISIONS		
NO	DATE	DESCRIPTION

DATE: 02/04/08
SCALE: NOTED
DRAWN BY: RL
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS
TYPICAL FRAME ELEVATIONS

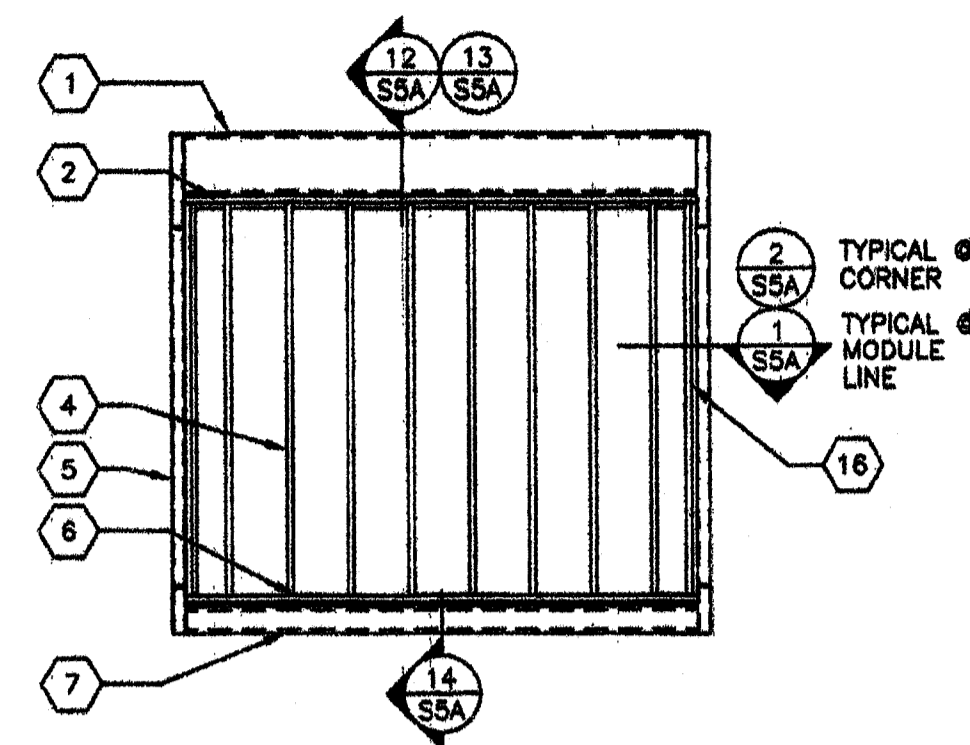
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(209)826-1921 Fax (209)826-7018
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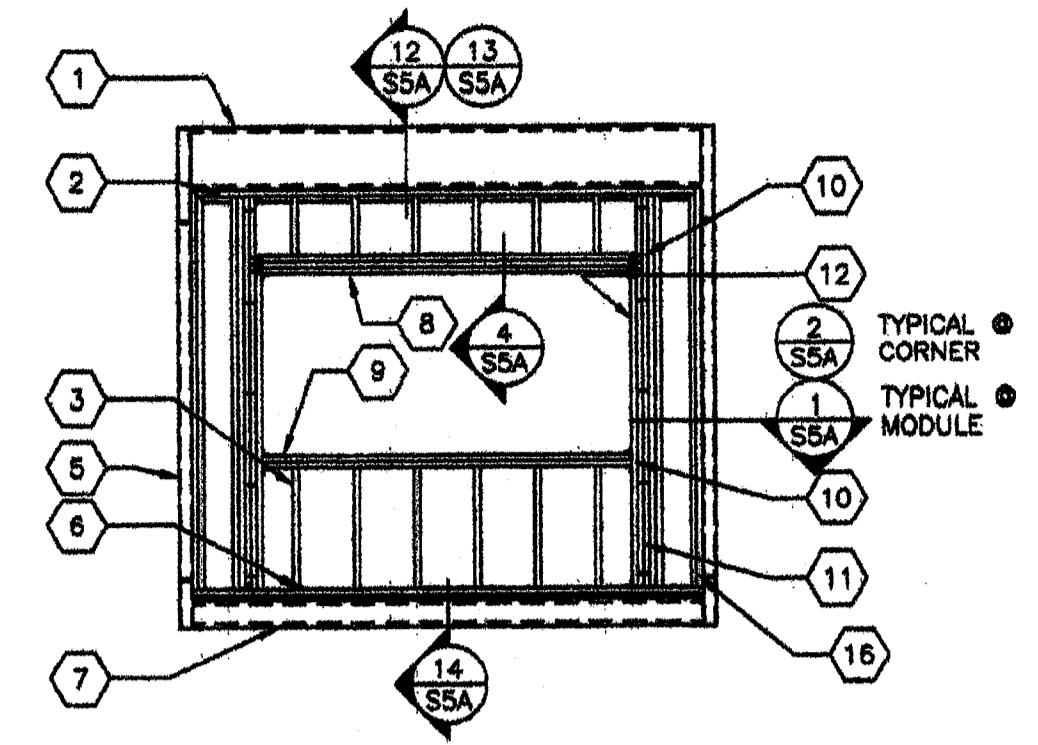
REGISTERED PROFESSIONAL ENGINEER
Kenneth A. Luff
No. 1419
Exp. 2/28/11
Structural Engineer
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
AC - FLS - SS GR
DATE: 1/12/11

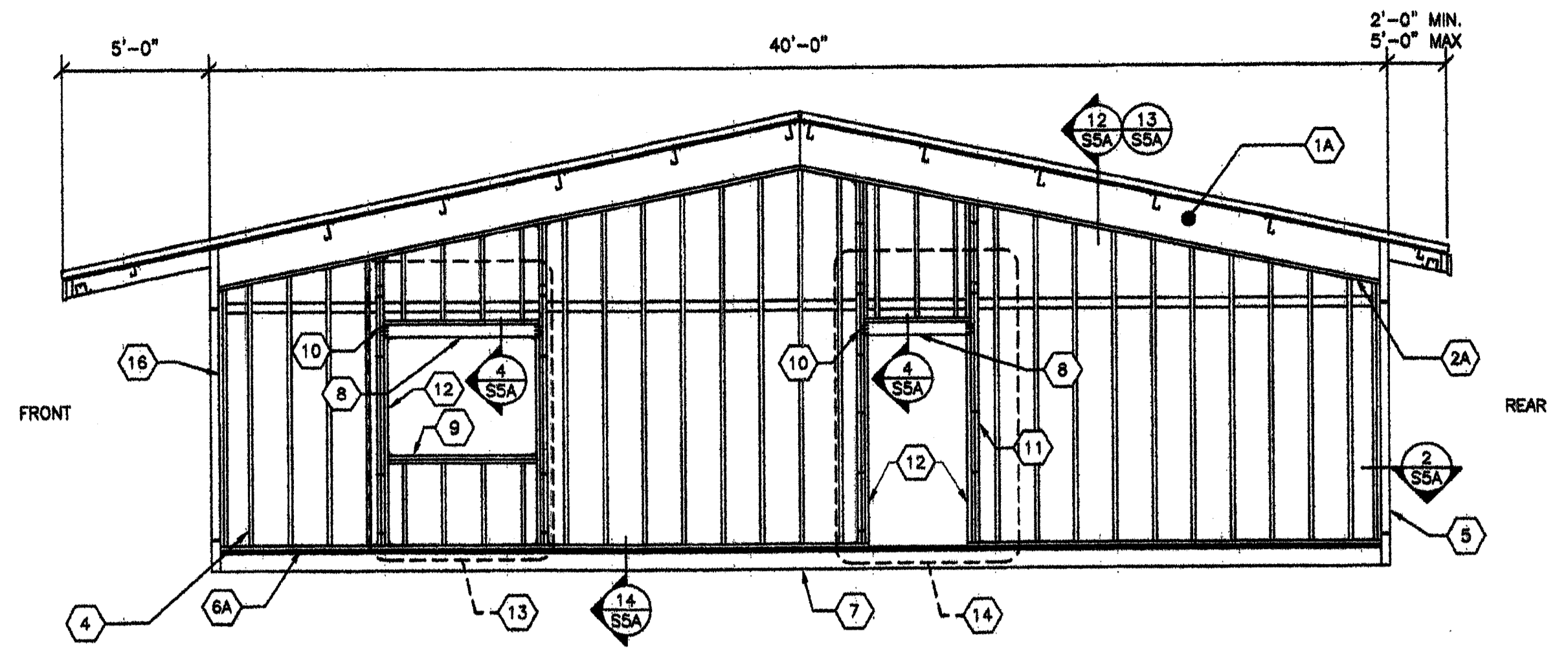
PROJECT No.
PC
S4



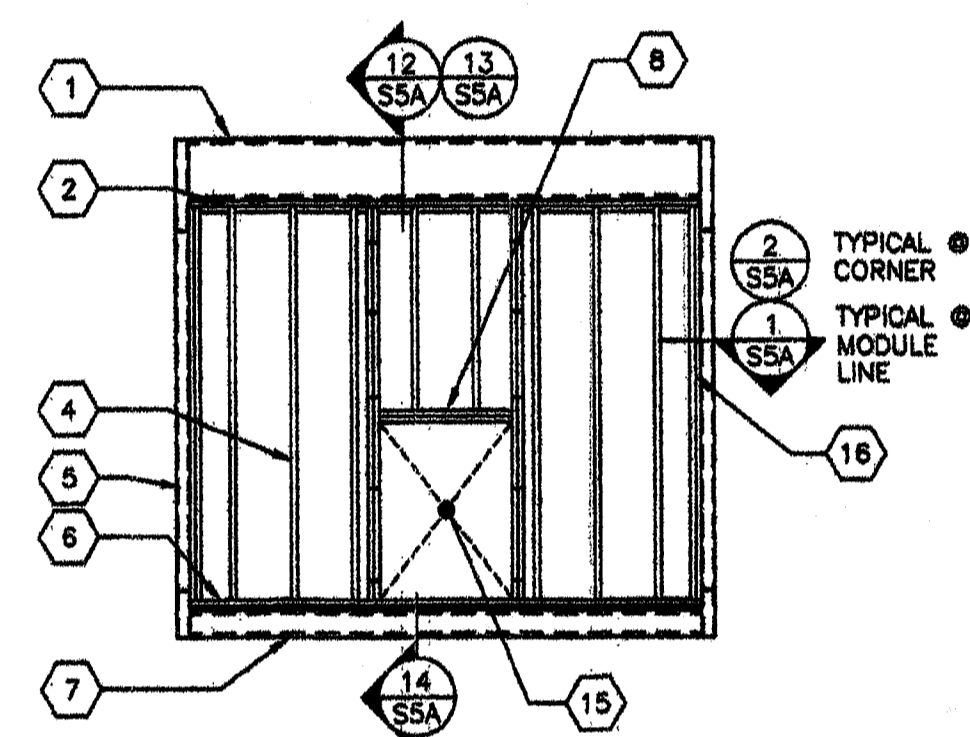
1 TYP END WALL FRAMING W/NO OPENINGS
85 1/4"=1'-0"



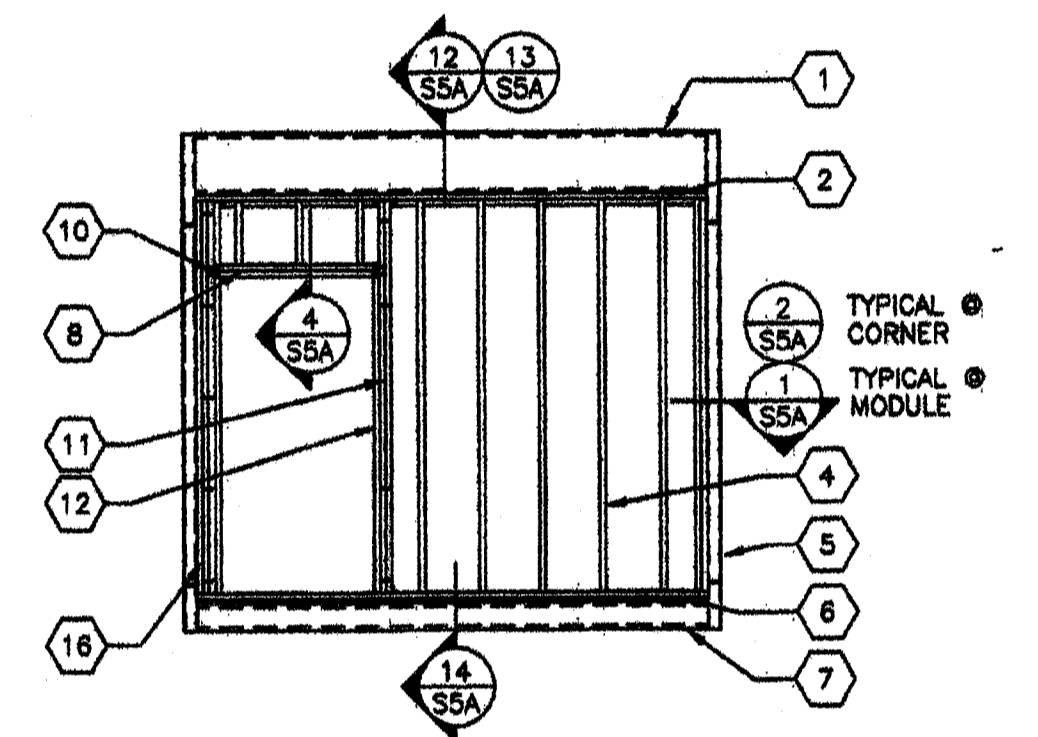
2 TYP END WALL FRAMING W/WINDOW
85 1/4"=1'-0"



6 TYP SIDE WALL FRAMING
85 1/4"=1'-0"



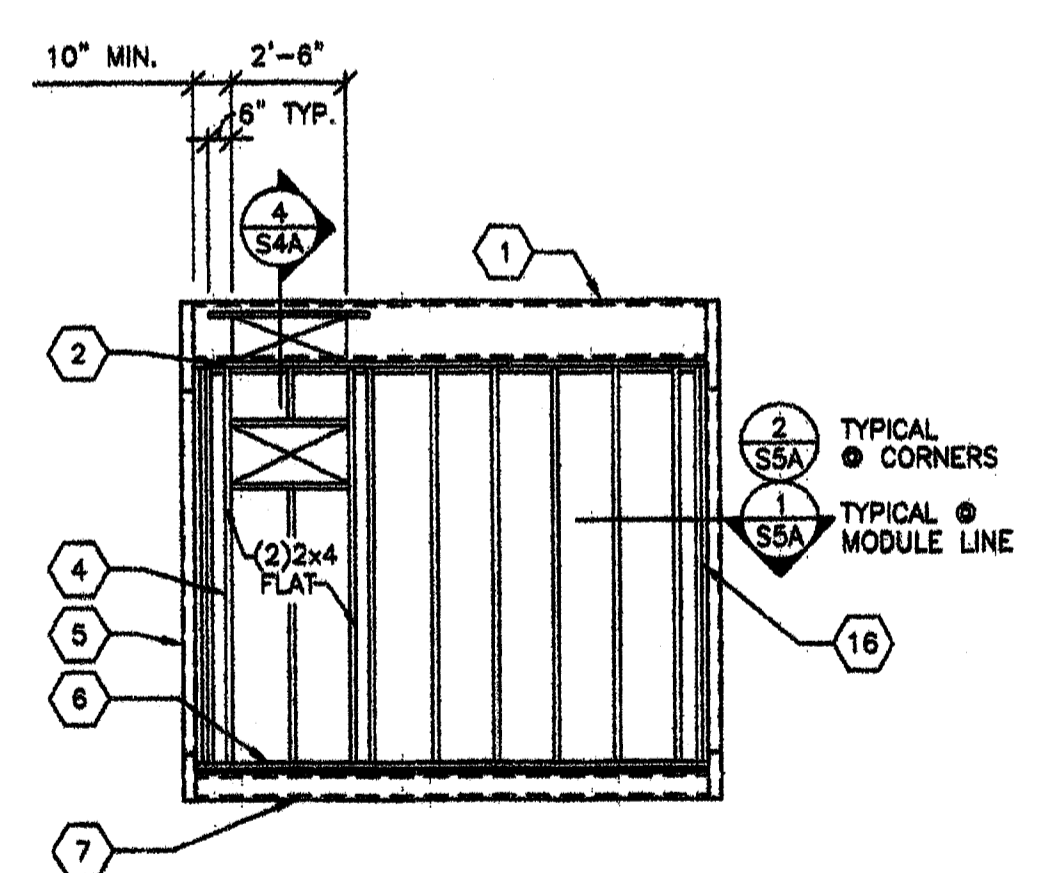
3 TYP END WALL FRAMING W/DOOR HVAC UNIT
85 1/4"=1'-0" OPTIONAL



4 TYP END WALL FRAMING W/DOOR
85 1/4"=1'-0"

- KEY NOTES -

- 1 ROOF HEADER
- 1A ROOF BEAM
- 2 2x4 HEM FIR #2 PLATE NO SPLICE
- 2A 2x HEM FIR #2 PLATE
- 3 2x STUDS SPACED PER SCHEDULE TYP. W/ (3) .131x3" NAILS @ EA END
- 4 2x4 STUDS SPACED PER SCHEDULE W/(3).131x3" NAILS @ EA END @ TRANSVERSE WALLS. (2) 2x4'S OR (1)2x6 STUDS SPACED PER SCHEDULE W/(3).131x3" NAILS @ EACH END @ LONGITUDINAL WALLS.
- 5 HSS COLUMN PER SHEET S4
- 6 2x HEM FIR #2 BOTTOM PLATE NO SPLICES
2x P.T. HEM FIR #2 AT CONCRETE FLOORS
- 6A 2x HEM FIR #2 BOTTOM PLATE
2x P.T. HEM FIR #2 AT CONCRETE FLOORS
- 7 PERIMETER FLOOR BEAM
- 8 (2) 2x6 HEM FIR W/ 2x4 FLAT HEADER
ALT. (3) FLAT 2x HEM FIR. PER DETAIL 4/SSA
- 9 (2) 2x HEM FIR #2 WINDOW SILL PLATE TYP.
(3) 2x HEM FIR #2 OR (2) 2x DOUG FIR #2 @ STUCCO WALLS
- 10 (7).131x3" END NAILS THROUGH KING STUD TYP
(ONLY 5 NAILS REQUIRED AT WINDOW SILLS)
INTERNAL KINGS STUDS W/.131 NAILS @ 12" O.C MAX
- 11 (2) 2x HEM FIR #2 KING STUDS
W/ (2) A34 T&B TO PLATE @ OPENINGS LESS THAN 4'-0" (INTERNAL W/O.131 NAILS @ 12" OC TYP MAX.)
(4) 2x HEM FIR #2 KING STUDS W/(2) A34 T & B TO PLATE @ TRANSVERSE WALLS @ OPENINGS GREATER THAN 4'-0" (INTERNAL W/O.131 NAILS @ 12" OC TYP MAX.)
(6) 2x HEM FIR #2 KING STUDS W/(2) A34 T & B TO PLATE @ LONGITUDINAL WALLS @ OPENINGS GREATER THAN 4'-0" (INTERNAL W/O.131 NAILS @ 12" OC TYP MAX.)
- 12 2x HEM FIR #2 TRIMMER
- 13 OPTIONAL WINDOW OPENING
MAX 8'-0" WIDE
(REFER TO 2/SS FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
- 14 OPTIONAL DOOR OPENING
(REFER TO 4/SS FOR DETAILS AND FLOORPLANS FOR LOCATIONS)
- 15 HVAC OPENINGS @ INDOOR UNIT
- 16 2x NAILER



3 TYP END WALL FRAMING W/WALL HUNG HVAC UNIT
85 1/4"=1'-0" OPTIONAL

EXTERIOR WALL FINISH/WALL STUD SCHEDULE					
FINISH TYPE	FOUNDATION TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING TYPICAL	STUD SPACING @ CORNERS
5/8" PLYWOOD SHEATHING 303 CONFORMING TO PS1-95. VERTICAL GROOVES @ 8" OC	WOOD OR CONCRETE	JOINT DETAIL SEE 10/SSA NAILING PER BLDG SECTIONS	HEM FIR #2	@ 16" OC	@ 16" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC
3/8" HARDIBOARD WITH SYNTHETIC STUCCO 3/8" HARDI-LAP SIDING	WOOD OR CONCRETE	JOINT DETAIL AND NAILING PER DETAIL 10/SSA	HEM FIR #2	@ 16" OC	@ 16" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC
1/2" PLYWOOD SHEATHING CONFORMING TO PS1-95, APA RATED, 5 PLY 32/16, EXPOSURE 1 WITH 3/8" STUCCO	CONCRETE ONLY	NAILING PER BLDG SECTIONS	HEM FIR #2	@ 16" OC	@ 12" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC

1. ALL NAILS IN EXTERIOR APPLICATIONS TO BE GALVANIZED.
2. WALL CORNERS ARE DEFINED AS A DISTANCE OF 8' FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH 2160 SQ. FT. OR GREATER AND A DISTANCE OF 4 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH LESS THAN 2160 SQ. FT.
3. TYPICAL PLYWOOD NAILING WHERE OCCURS .131x2 1/4" GALV @ 8" O.C E.N. & 12" O.C. F.N.

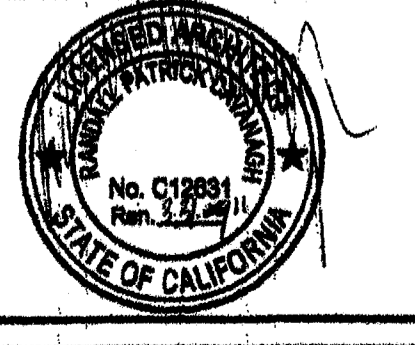
REVISIONS		
NO.	DATE	DESCRIPTION

DATE: 02/07/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
2:12 PITCHED ROOF 24' x 40' THUR 120' x 40' RELOCATABLE BUILDINGS
WALL FRAMING ELEVATIONS

AMS
American Modular Systems Inc.
787 Brockdale Ave. Manteca, CA 95336
(209)825-1921 Fax: (209)825-7018
americanmodular.com

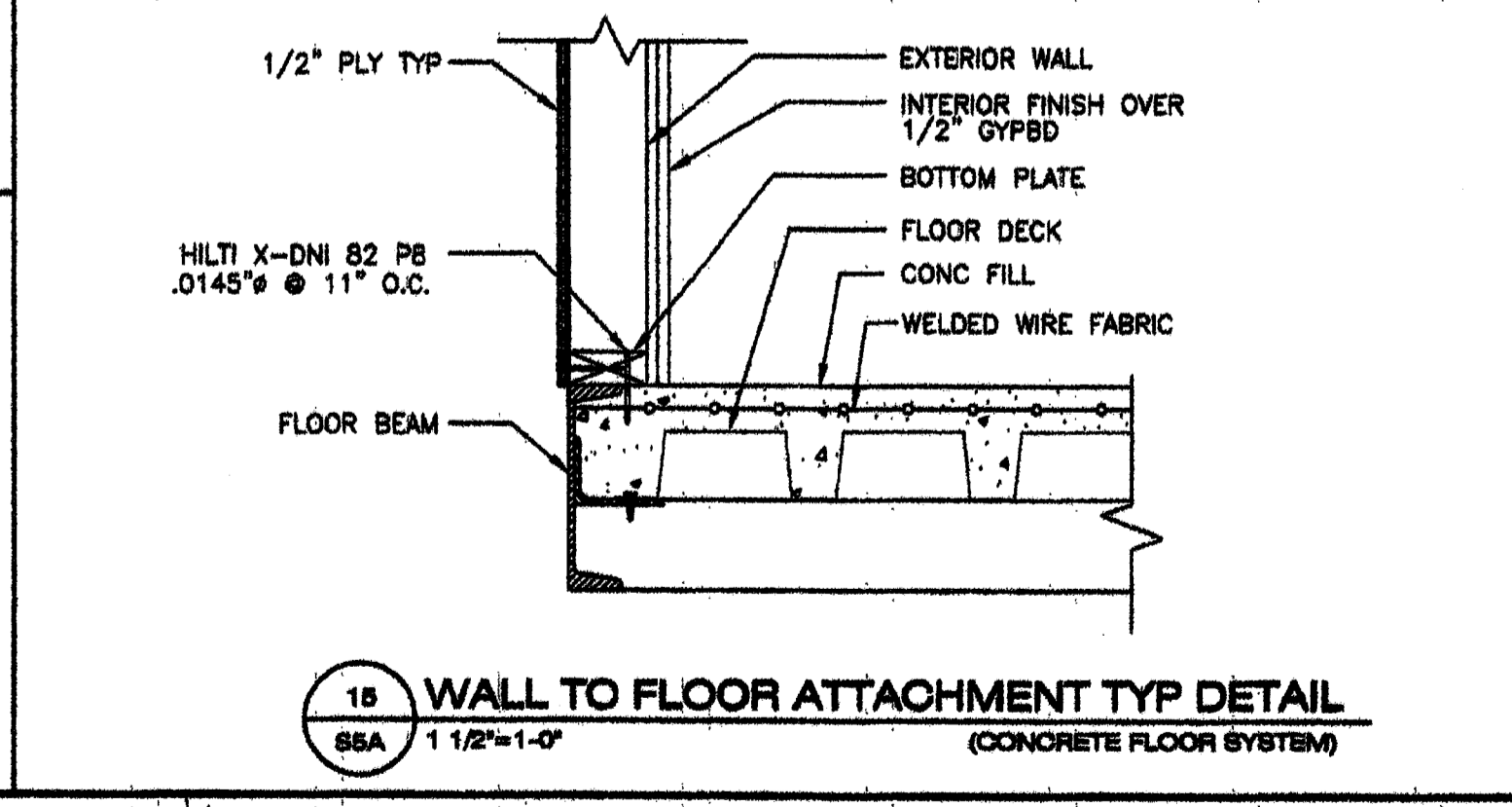
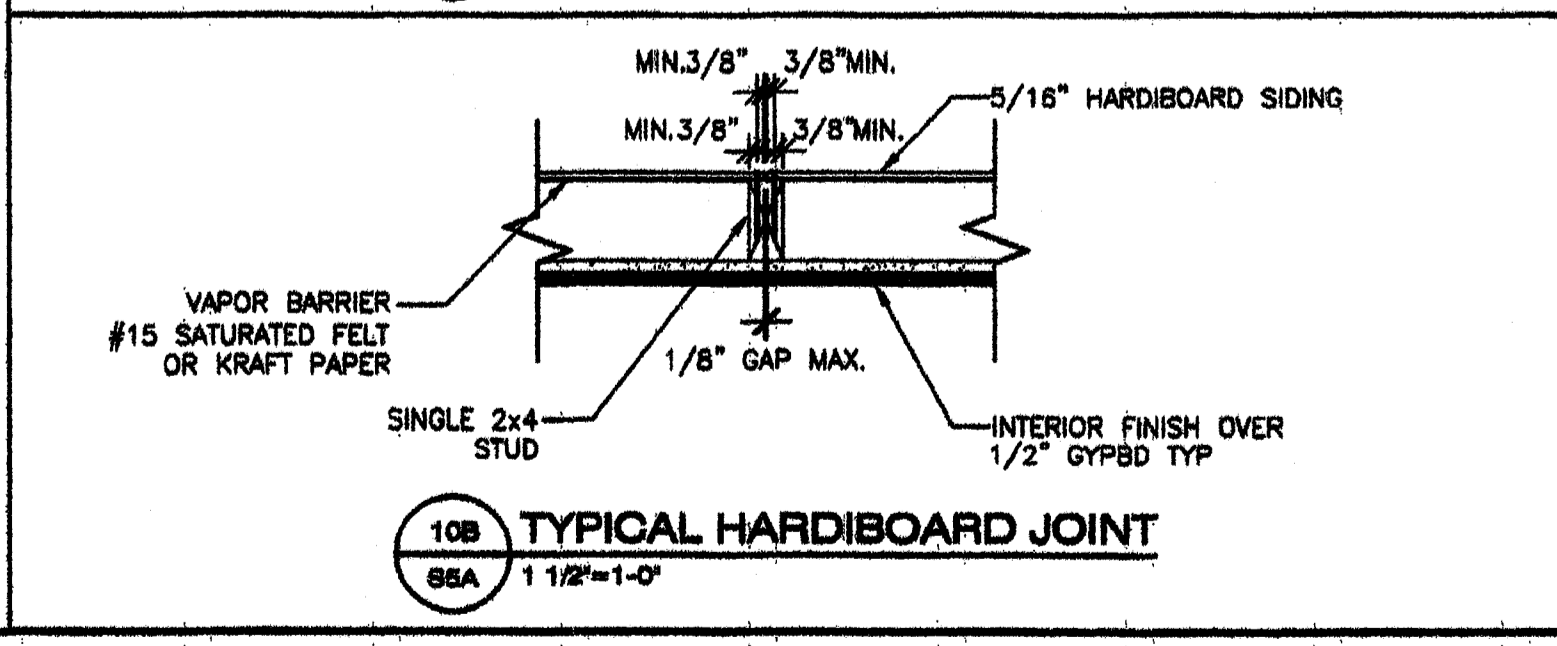
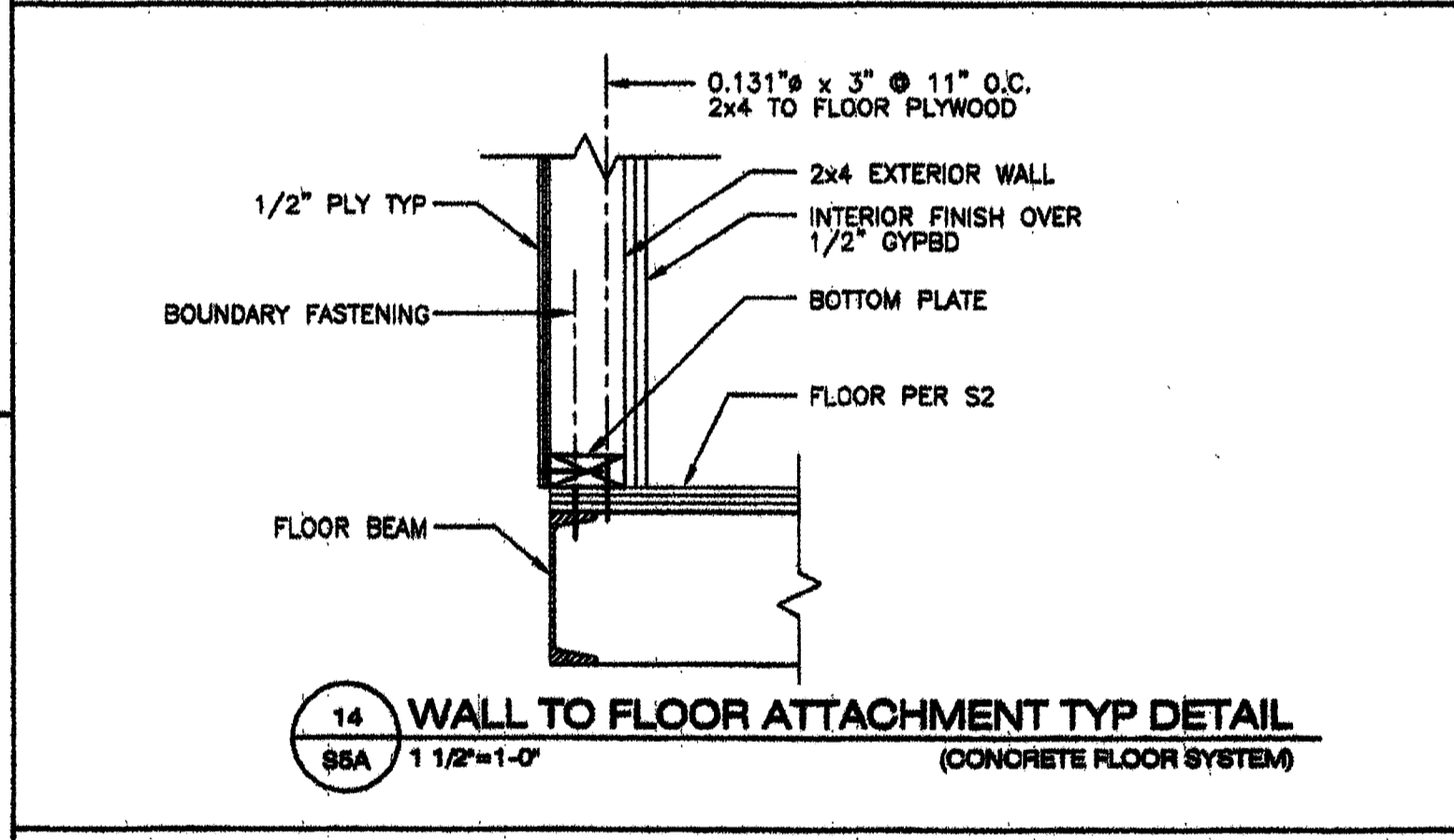
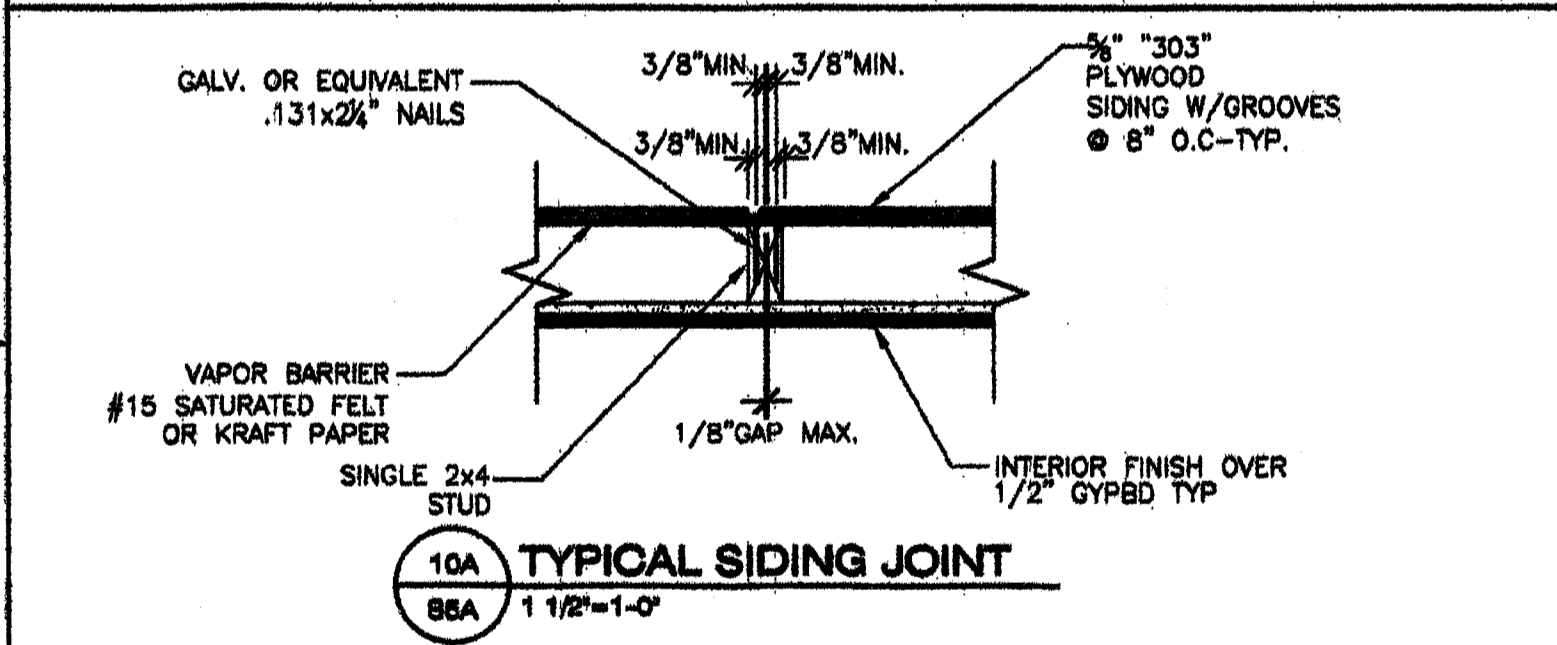
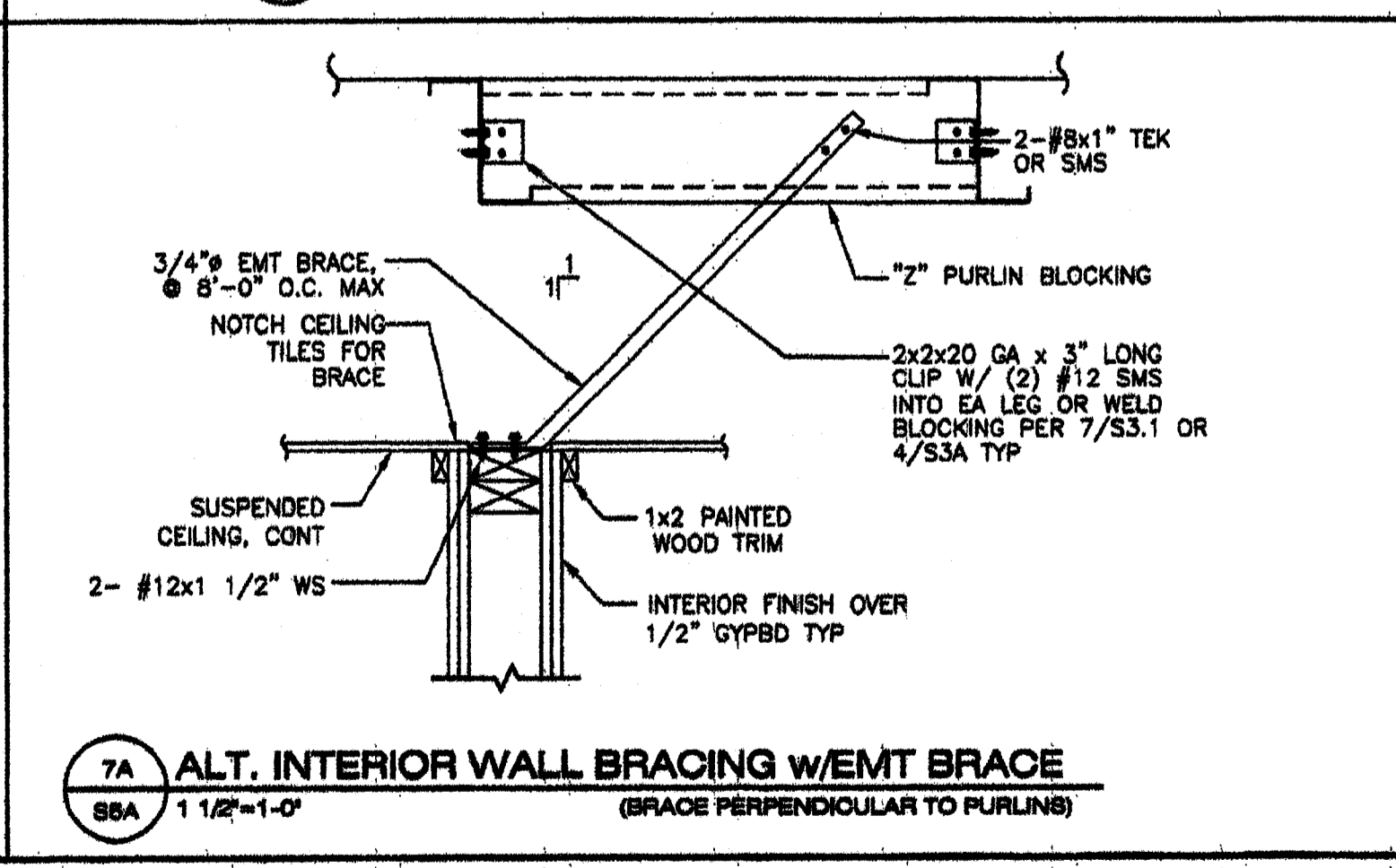
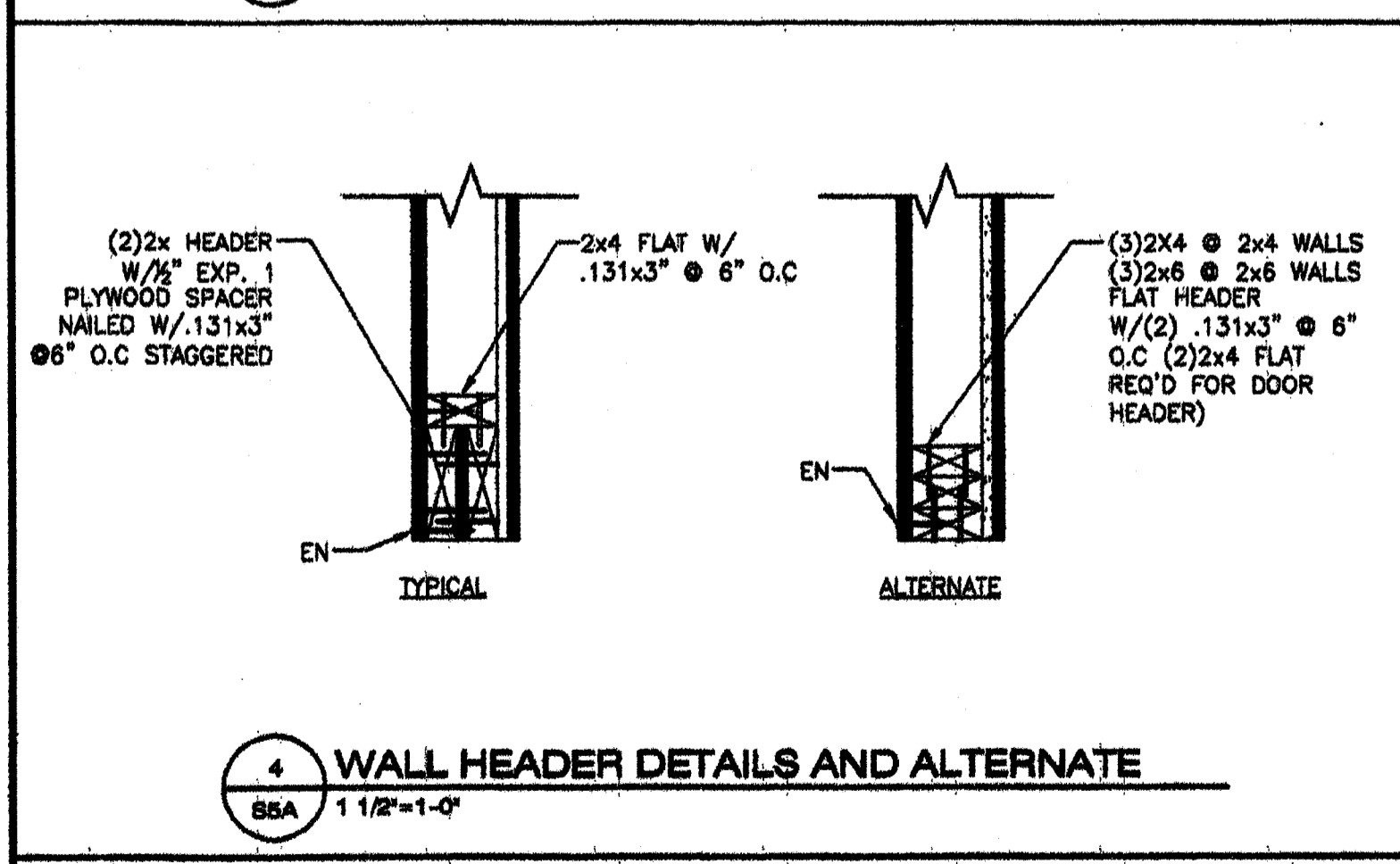
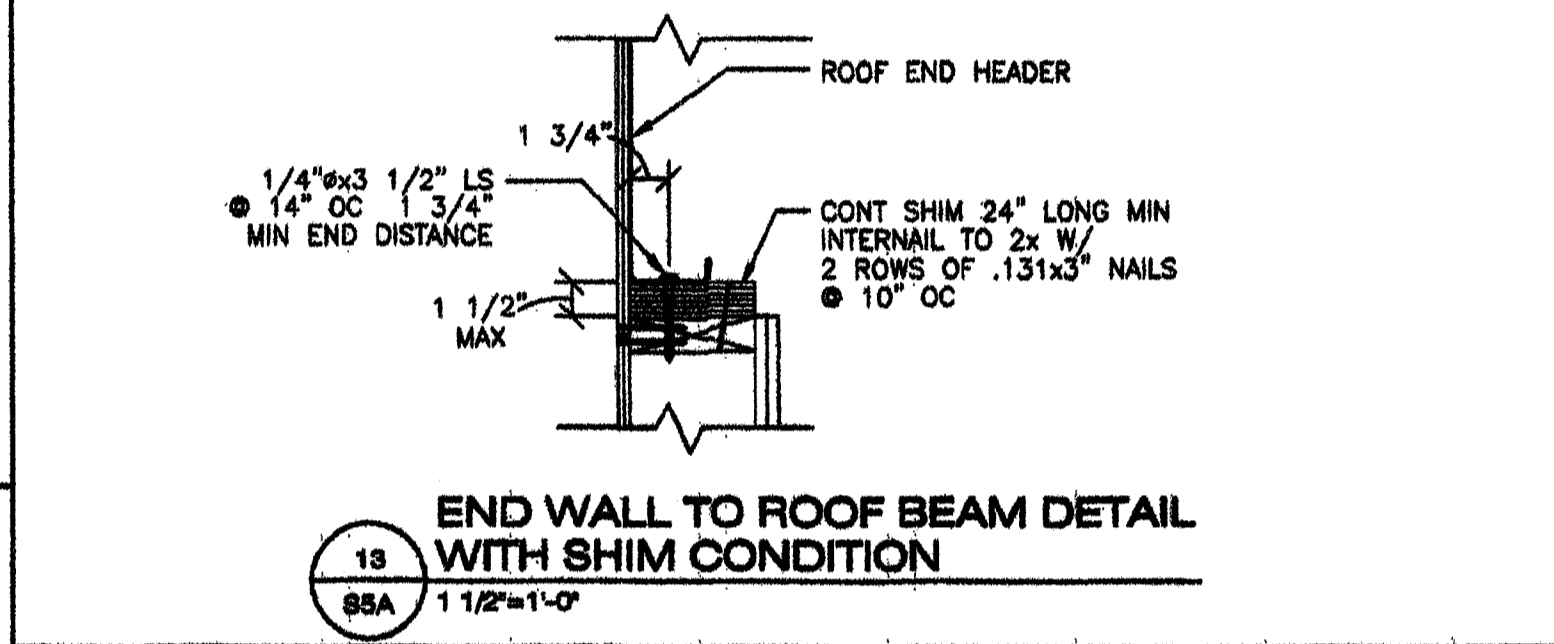
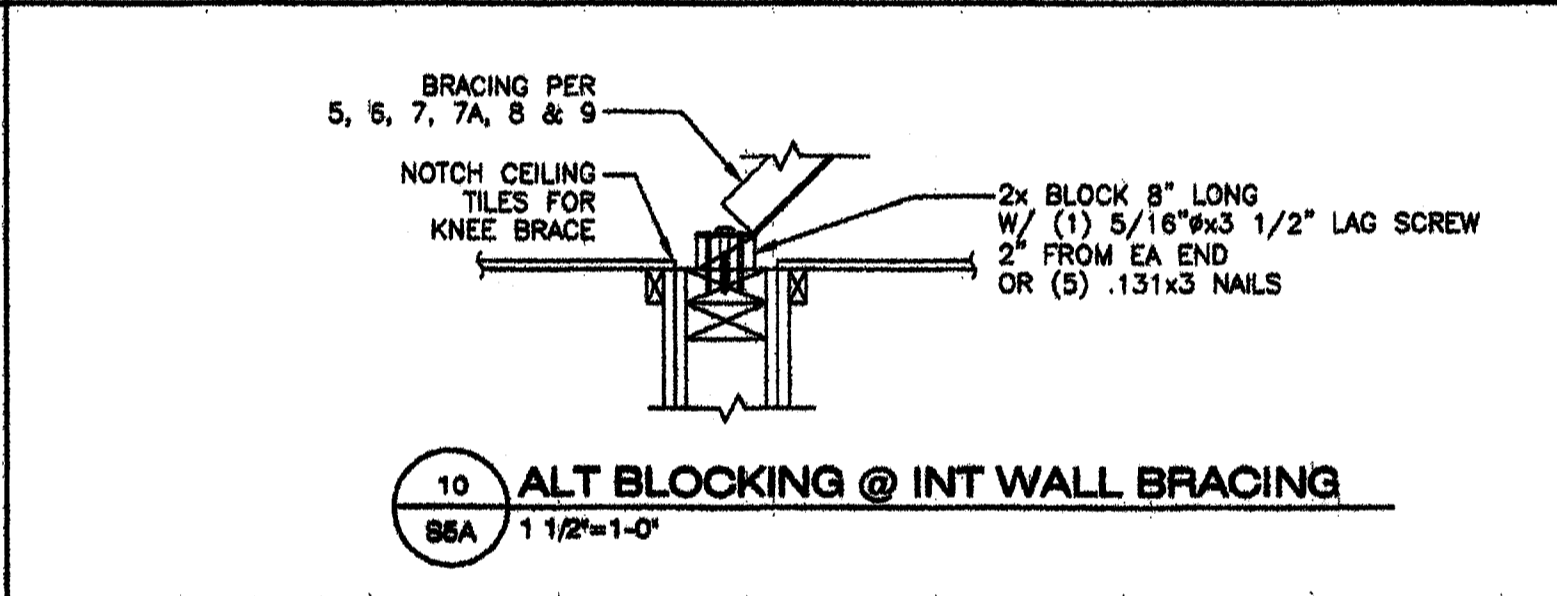
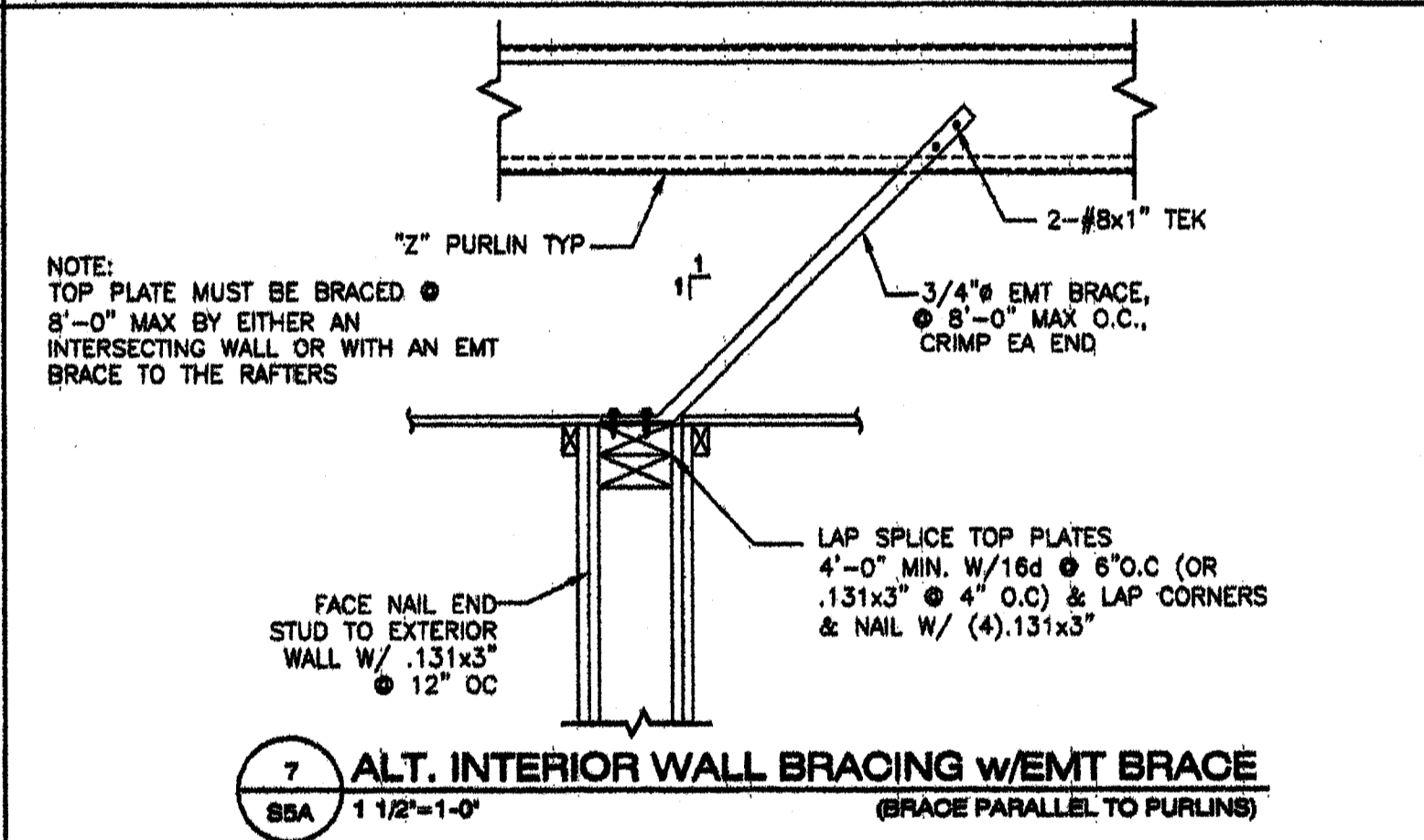
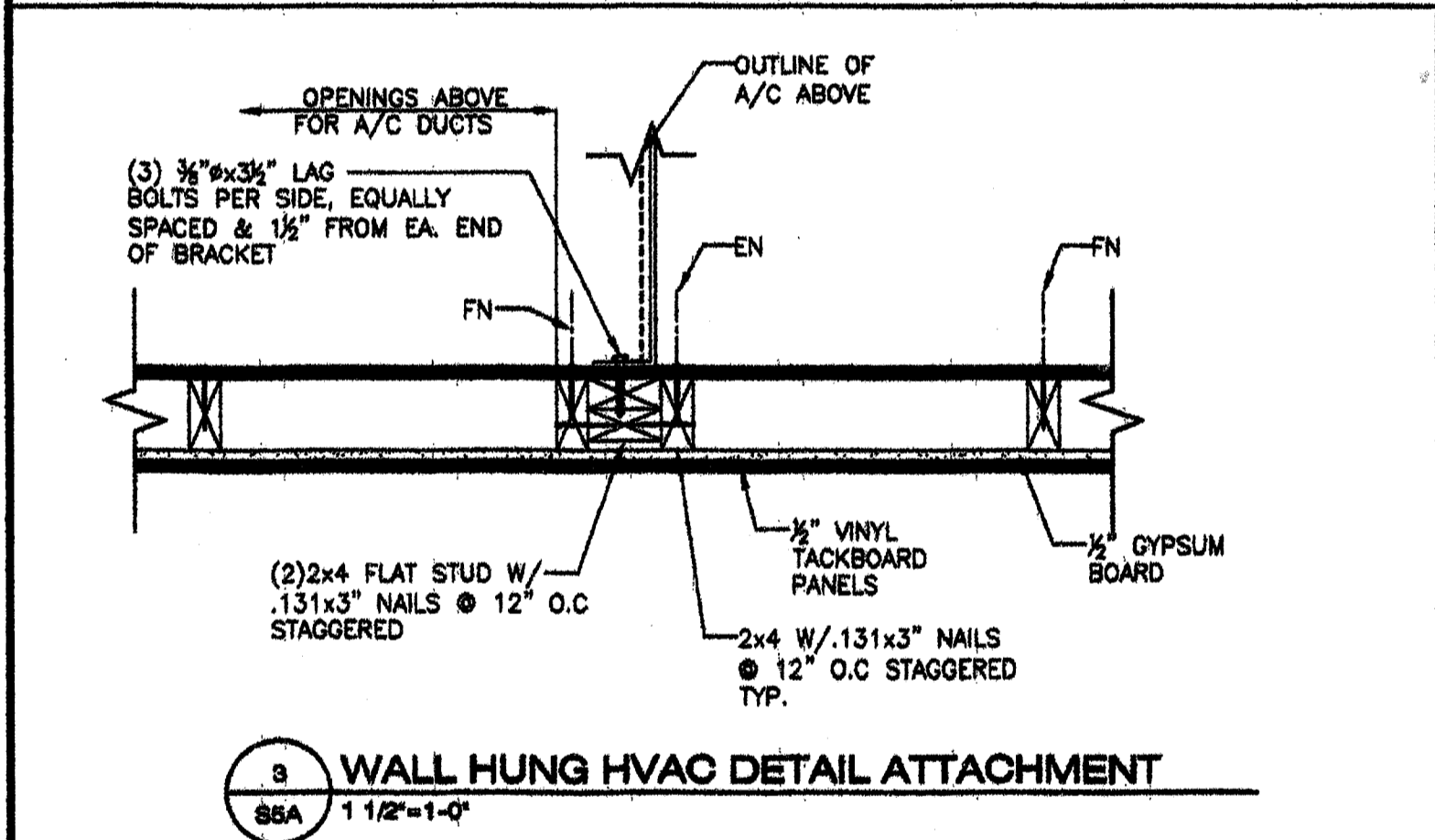
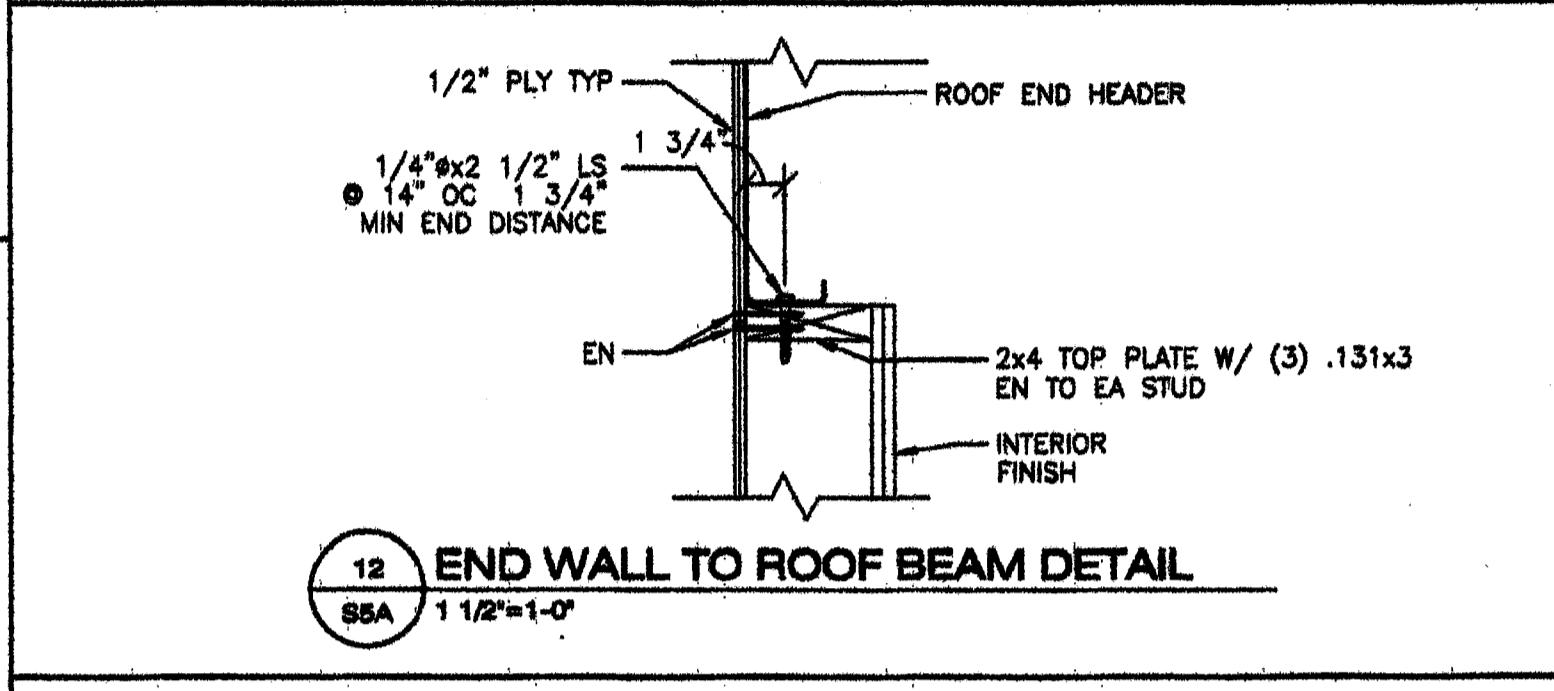
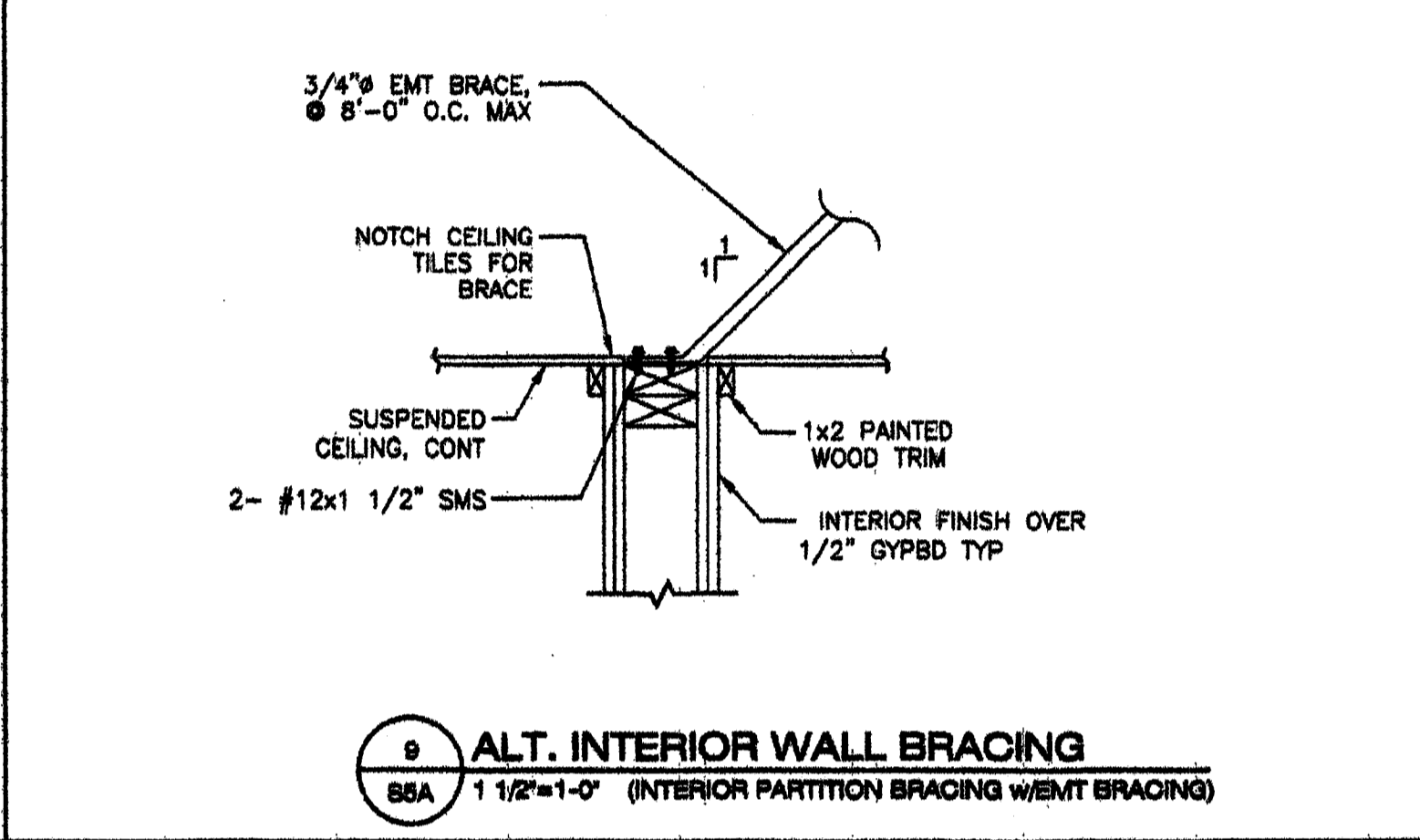
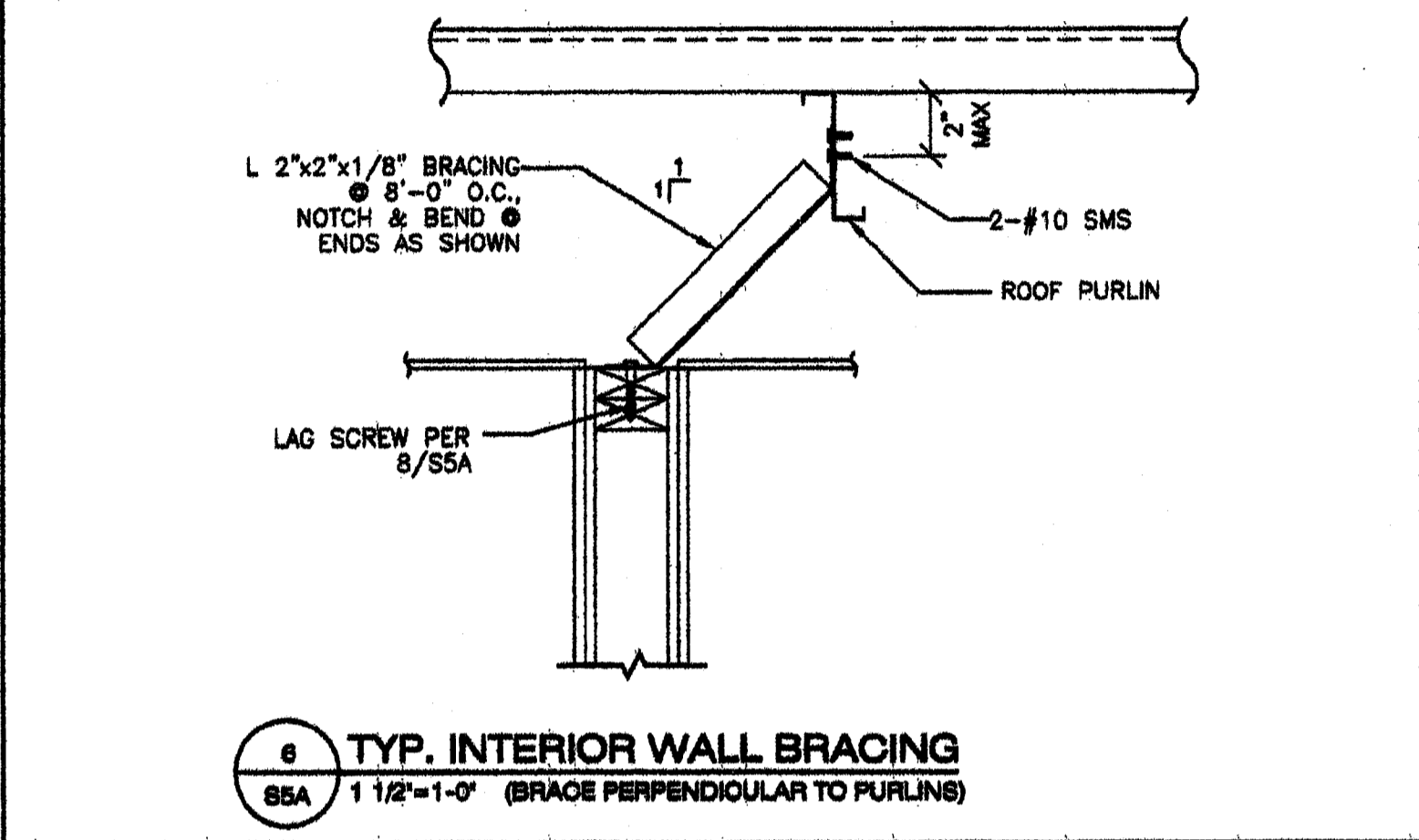
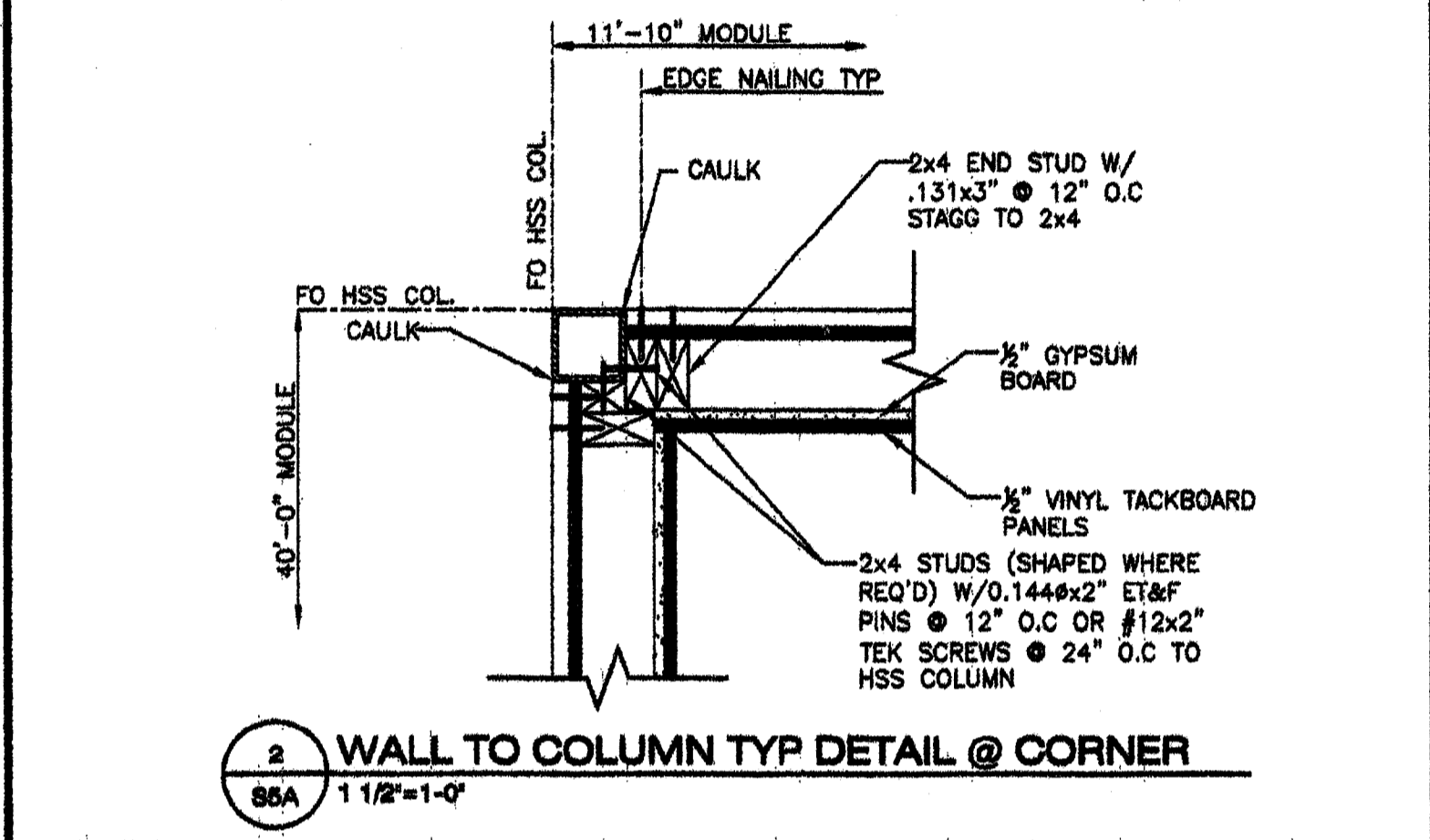
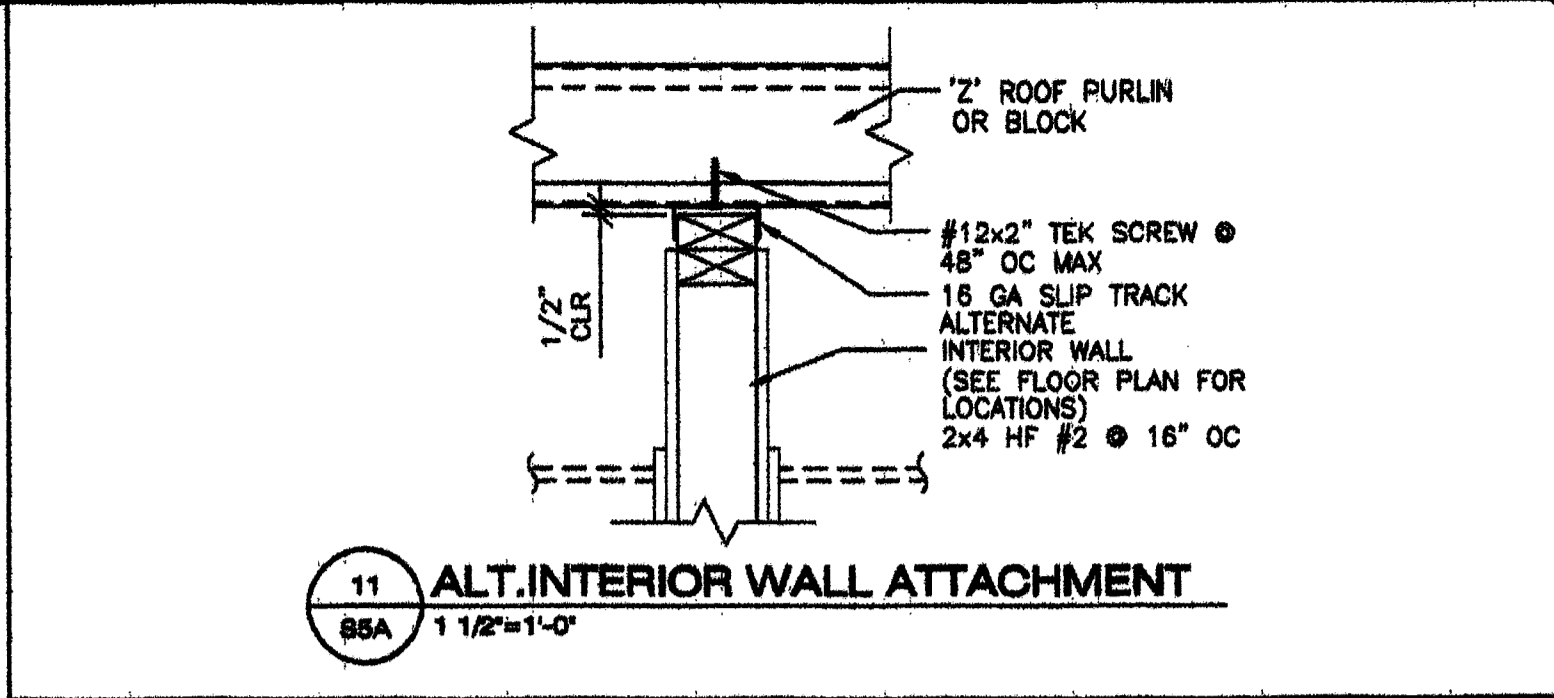
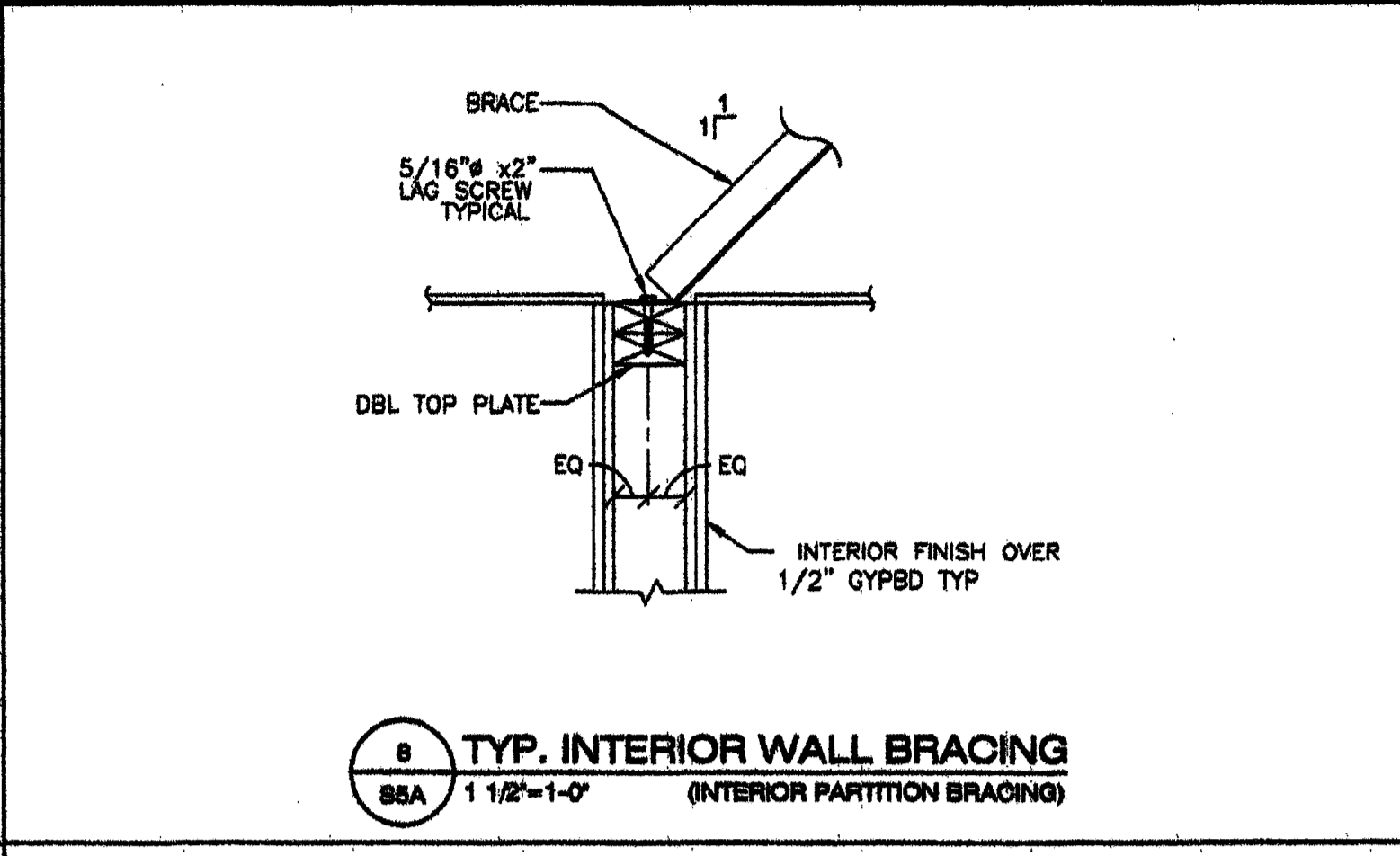
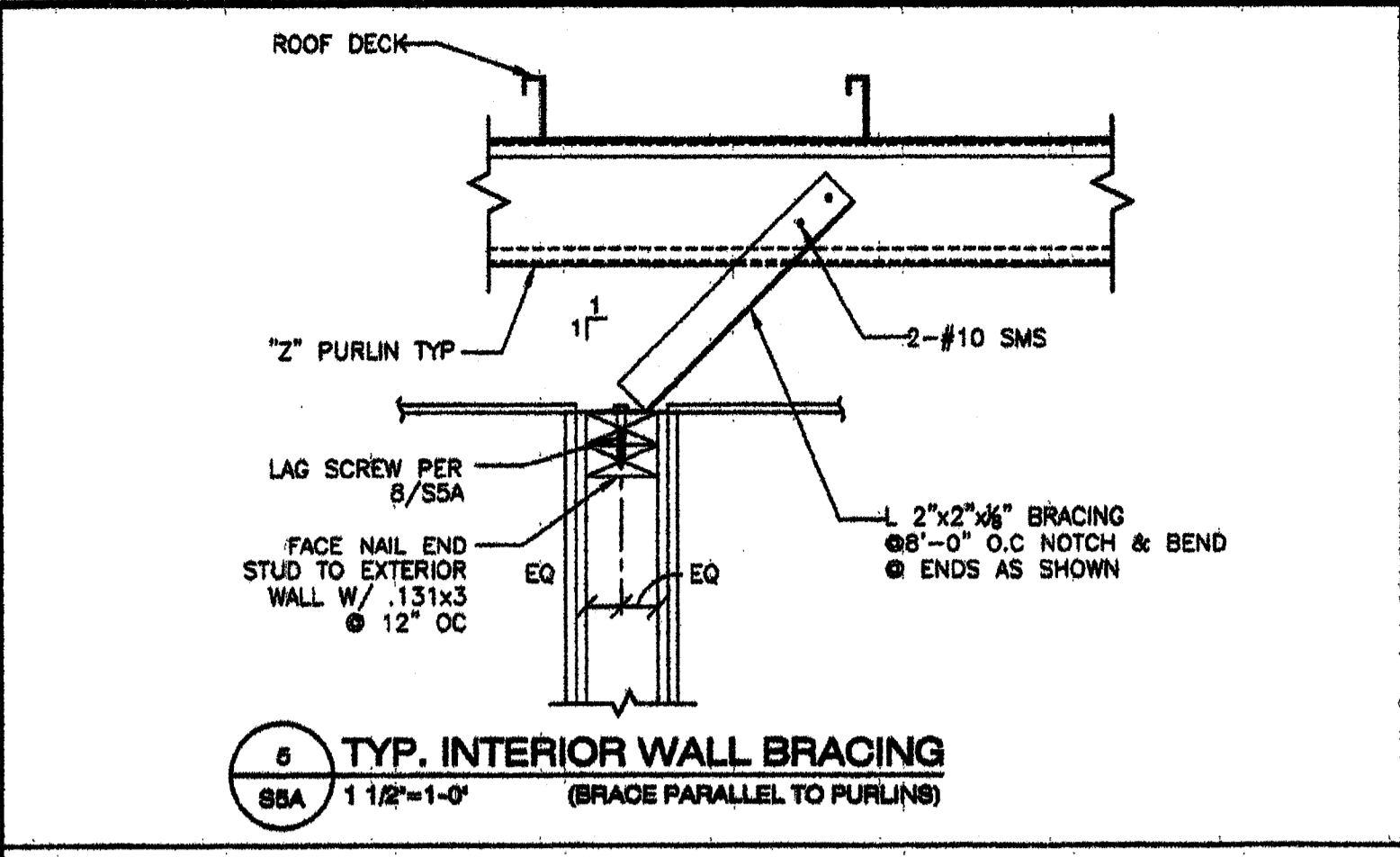
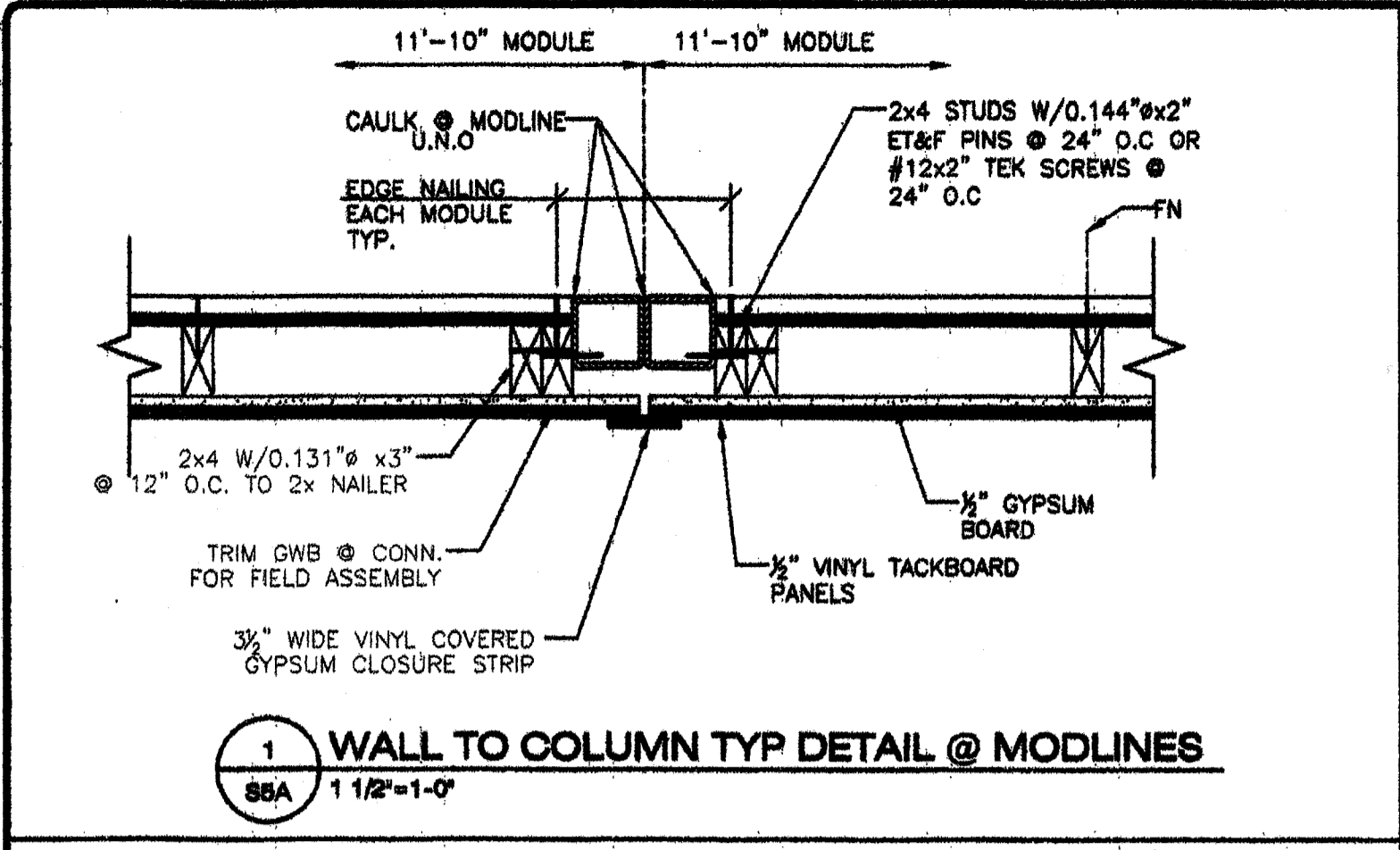
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PROJECT NO.
S5

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REVISIONS		
NO	DATE	DESCRIPTION

DATE: 02/06/08

SCALE: NOTED

DRAWN BY: DM

SERIAL NO.:

CUSTOMER:

2:12 PITCHED ROOF 24' x 40' THRU 120' x 40' RELOCATABLE BUILDINGS

WALL FRAMING DETAILS

787 Bracemore Ave. Marietta, GA 30066
(678)955-1921 Fax: (678)955-7016
americanmodular.com

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Kenneth A. Luff
No. 1418
Exp. 3-31-08
Structural Engineer
STATE OF CALIFORNIA

PROJECT No.

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DIV. OF THE STATE ARCHITECT
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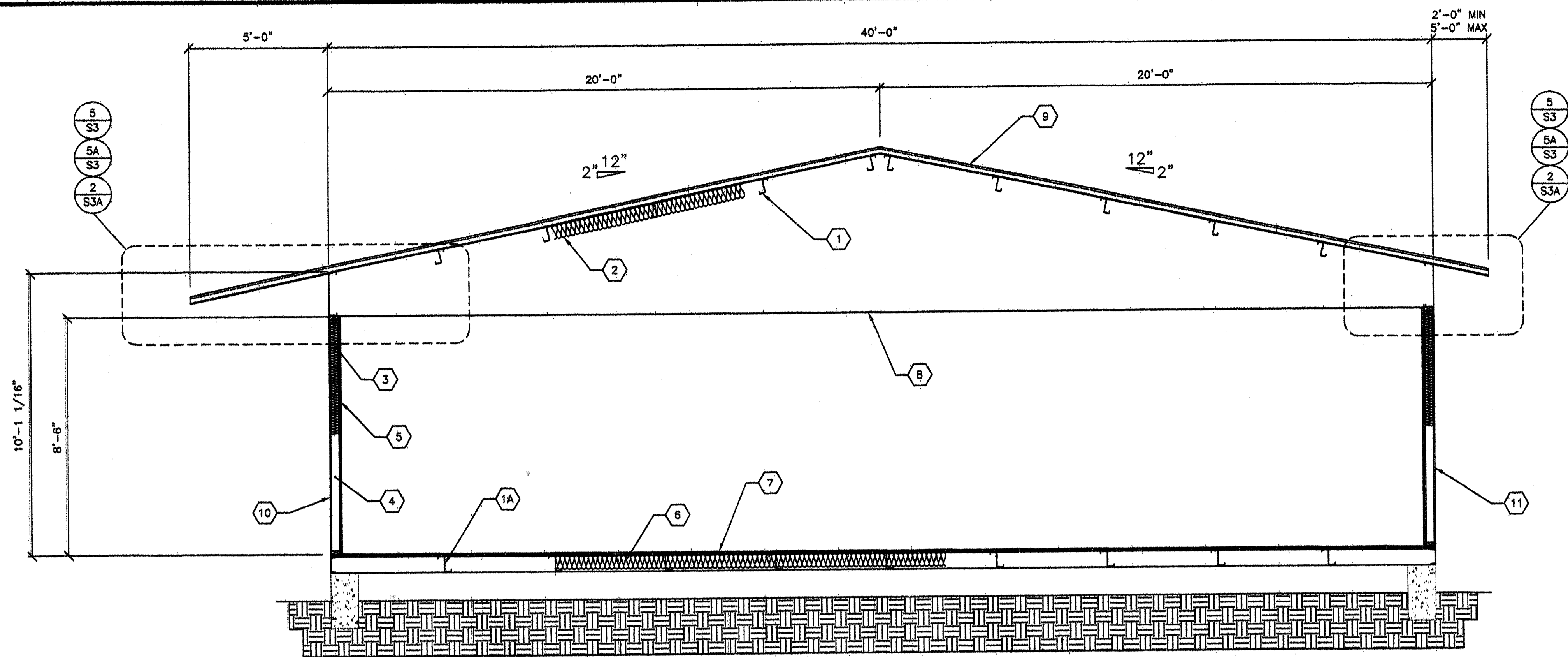
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AC - FLS - SS

DATE: 1/11/08

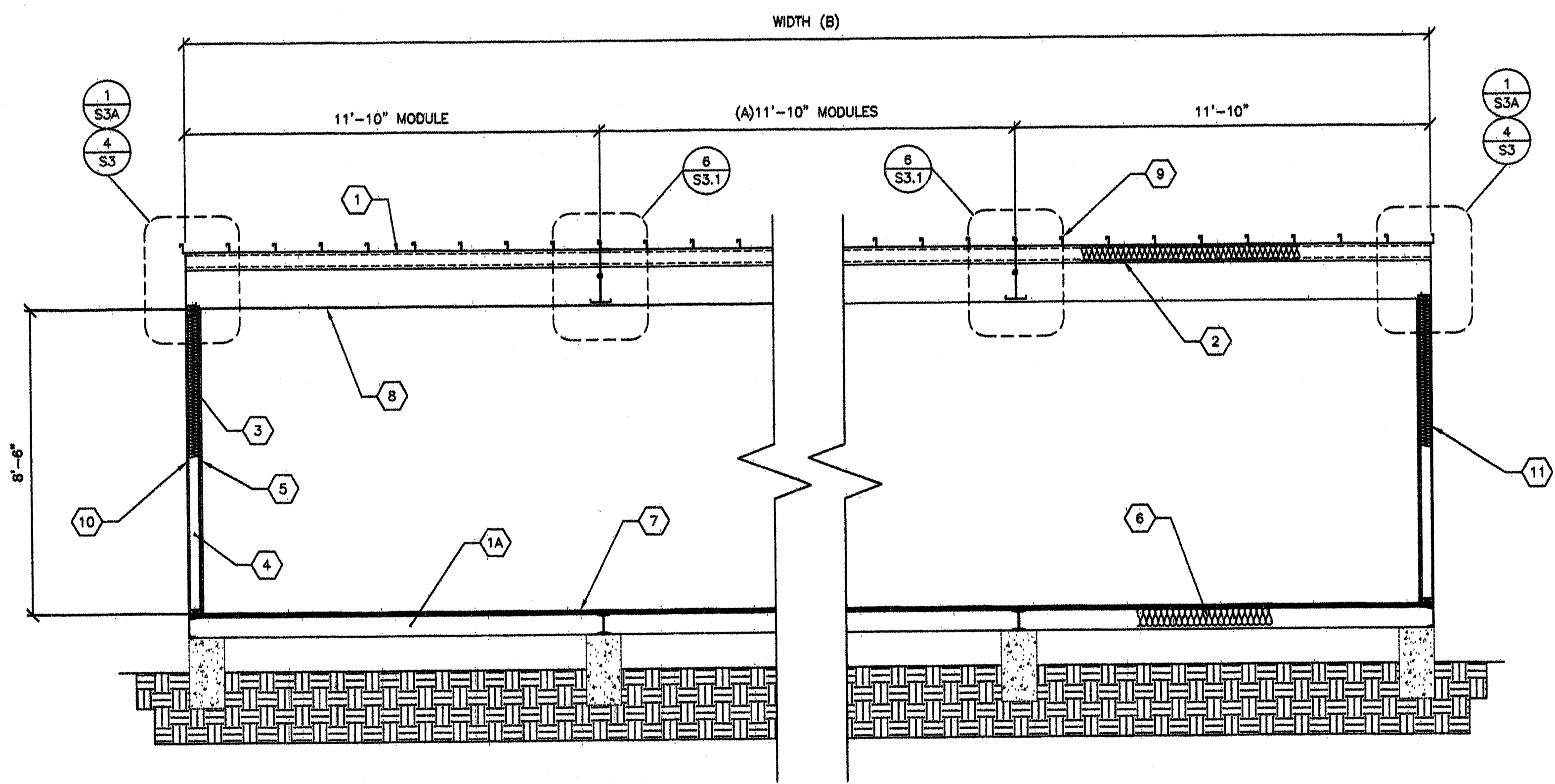
S5A

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A TYP. LONGITUDINAL SECTION
87 3/8"=1'-0"

- KEY NOTES -**
- 1 "Z" PURLINS @ 48" O.C
 - 1A STEEL "Z" FLOOR JOISTS @ 48" O.C.
 - 2 R-19 INSULATION w/22 GA WIRE @ 16" O.C
 - 3 INSULATION w/KRAFT PAPER
 - 4 2x STUDS PER ELEV, S5
 - 5 VINYL FABRIC ON RIGID TACKABLE BACKING, 8'-8" PANELS
 - 6 INSULATION w/KRAFT PAPER AND CHICKEN WIRE
 - 7 1 1/2" PLYWOOD FLOOR SHEATHING FOR ALT SEE SHEET S2,
 - 8 SUSPENDED T-BAR CEILING
 - 9 METAL ROOF PANELS SEE ROOF FRAMING PLAN
 - 10 TYPICAL PLYWOOD NAILING .131x2 1/4" GALV @ 6" O.C PANEL EDGES (ALL EDGES BLOCKED).131x2 1/4" GALV @ 12" O.C FIELD
 - 11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS



B TYP. TRANSVERSE SECTION
87 3/8"=1'-0"

- MODULE SCHEDULE -

BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL BLDG WIDTH
24' x 40'	2	0	23'-8 1/4"
36' x 40'	3	1	38'-6 1/2"
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60' x 40'	5	3	58'-3"
72' x 40'	6	4	71'-1 1/4"
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REVISIONS

NO	DATE	DESCRIPTION

DATE: 12/16/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER:
BAKERSFIELD CITY SCHOOL DISTRICT
McKINLEY ELEMENTARY SCHOOL

2:12 PITCHED ROOF 24' x 40' RELOCATABLE BUILDINGS
BUILDING SECTIONS

AMS
American Modular Systems Inc.
787 Sprinkles Ave. Manteca, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

APPROVALS:

THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

[Signature]

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

02-111612
AC - FLS - SS GR
DATE 1/12/11

STATE OF CALIFORNIA
No. C12631
Ren. 2/5/11

PROJECT No.

S7

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American Modular Systems Inc.

12'x40' RELOCATABLE BUILDING
BAKERSFIELD SCHOOL DISTRICT
(McKINLEY ELEMENTARY SCHOOL)

EXPOSED - STEEL

MODULAR STEEL MOMENT FRAME TEST & INSPECTION GUIDELINE

A SEPARATE TEST AND INSPECTION LIST IS TO BE SUBMITTED AS PART OF THE APPROVAL PROCESS. THIS GUIDE DOES NOT REPLACE THE TEST AND INSPECTION LIST

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT (X - INDICATES TEST OR INSPECTION TO BE DONE)

Table with columns: TESTS and INSPECTIONS, STOCKPILE, CONSTRUCTION OF (diaphragm material-foundation material), RELOCATION OF CERTIFIED BUILDING. Rows include: COMPACTED FILL, CONCRETE, REINFORCING STEEL, STRUCTURAL STEEL, GROUNDING, SHOT PINS, EXPANSION ANCHORS, EPOXY ANCHORS, INSPECTOR CLASS, SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY, COST OF THE PROJECT INSPECTOR AND TESTING AGENCY, COPIES OF THE REPORT TO.

ITEMS IN RED FONT COLOR ARE USER NOTES AND INDICATE ITEMS THAT NEED TO BE VERIFIED FOR EACH SPECIFIC PC. THE NOTES IN RED ABOVE AND BELOW ARE TO BE REMOVED PRIOR TO PLACING THE GUIDELINE ON THE DRAWINGS

- Note 1: Verify that Either Condition a or b are met: a) Concrete Plant complies fully with ASTM C94, Section 8 and 9, and has a current certification... b) Compressive strength: 3500 psi Specified - 2500 psi Design... c) Inspector to check first batching at start of work and furnish mix proportions to licensed weighmaster... d) Licensed Weighmaster to positively identify materials as to quantity and certify each load by a ticket... e) Tickets transmitted to Inspector of Record... f) Submit Weighmaster Affidavit.

Note 2: All Contact Test as required based on site location (for cold weather conditions)
Note 3: Required where the details of the PC specify a Welding
Note 4: Required where the details of the PC specify the use of this type of anchor

BUILDING DATA

Table with columns: OCCUPANCY, TYPE OF CONSTRUCTION, WIND LOAD, FLOOR LIVE LOAD, ROOF LIVE LOAD, FIRE SPRINKLER SYSTEM WEIGHT (PSF), ALLOWABLE SOIL PRESSURE (PSF), FLOOD HAZARD AREA, BUILDING AREA, CLIMATE ZONES, MODULES, SYSTEM, FOUNDATION TYPE, SEISMIC.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2008
2007 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2007 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2006 INTERNATIONAL BUILDING CODE VOLUMES 1-3 AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2005 NATIONAL ELECTRICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2006 UNIFORM MECHANICAL CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2006 UNIFORM PLUMBING CODE AND 2007 CALIFORNIA AMENDMENTS)
2008 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2004 SAFETY CODE FOR ELEVATORS AND ESCALATORS (ASME A17.1-2004)
2007 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2006 INTERNATIONAL FIRE CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
(2006 INTERNATIONAL EXISTING BUILDING CODE AND 2007 CALIFORNIA AMENDMENTS)
2007 CALIFORNIA "GREEN" BUILDING REQUIREMENTS, PART 11, TITLE 24 C.C.R. (PENDING ADOPTION)
2007 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
PARTIAL LIST OF APPLICABLE STANDARDS:
NFPA 13 Automatic Sprinkler Systems 2002 Edition
NFPA 14 Standpipe Systems 2003 Edition
NFPA 17 Dry Chemical Extinguishing Systems 2002 Edition
NFPA 17a Wet Chemical Systems 2002 Edition
NFPA 20 Stationary Pumps 2003 Edition
NFPA 24 Private Fire Mains 2002 Edition
NFPA 72 National Fire Alarm Code (California Amended) 2002 Edition
(Note See UL Standard 1971 for "Visual Devices")
NFPA 253 Critical Radiant Flux of Floor Covering Systems 2006 Edition
NFPA 2001 Clean Agent Fire Extinguishing Systems 2004 Edition
ASME 17.1 Elevator Standard 2004 Edition
Reference code sections for applicable Standards - 2007 CBC Chapter 35 and 2007 CFC Chapter 45.

GENERAL NOTES

- 1. PC BUILDING EXISTING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC. SEE ARCHITECTS PLANS
* PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A. SEE ARCHITECTS PLANS
* SITE USE SPECIFIC REQUIREMENT FOR AUTOMATIC SPRINKLER SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL.
* NOT APPLICABLE OR REQUIRED FOR THIS PROJECT.

DRAWING INDEX

- T-S COVER SHEET
A1 TYPICAL FLOOR PLANS
A3 TYPICAL INTERIOR ELEVATIONS
A5 TYPICAL EXTERIOR ELEVATIONS (SYNT. STUCCO OPTION)
A5A ARCHITECTURAL DETAILS (SYNT. STUCCO OPTION)
AD ACCESSIBLE DETAILS
N1 GENERAL NOTES
N2 GENERAL NOTES
P1 ISOMETRIC PLANS & DETAILS
M1 TYPICAL CEILING PLAN & NOTES
M2 MECHANICAL BUILDING SECTION & CEILING DETAILS
M3 CEILING & MECHANICAL NOTES
E1 TYPICAL ELECTRICAL PLAN & NOTES
E2 ELECTRICAL NOTES & DETAILS
S1A CONCRETE FOUNDATION PLAN 50 PSF LIVE LOAD+15 P.S.F & 125 PSF
S1B CONCRETE FOUNDATION DETAILS
S1C CONCRETE FOUNDATION DETAILS
S2 FLOOR FRAMING PLAN & DETAILS (PLYWOOD OPTION)
S3 ROOF FRAMING PLAN & DETAILS (OPEN SOFFIT OPTION)
S3.1 ROOF FRAMING DETAILS
S3A ROOF FRAMING PLAN & DETAILS (ENCLOSED SOFFIT OPTION)
S4 TYPICAL FRAME ELEVATIONS
S4A FRAME CONNECTION DETAILS
S5 WALL FRAMING ELEVATIONS
S5A WALL FRAMING DETAILS
S7 BUILDING SECTIONS

BASED ON PC# 02-109808

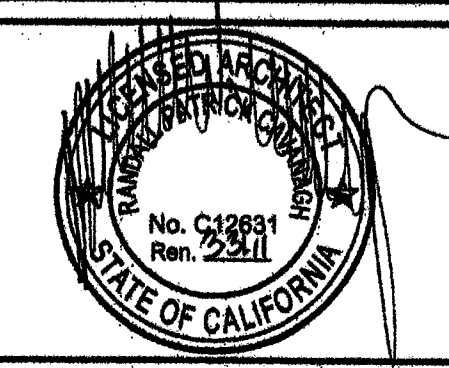
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DATE: 08/06/10
SCALE: NOTED
DRAWN BY: RS/MP
SERIAL NO.:

CUSTOMER: BAKERSFIELD SCHOOL DISTRICT
McKINLEY SCHOOL
12'x40' RELOCATABLE BUILDING
COVER SHEET



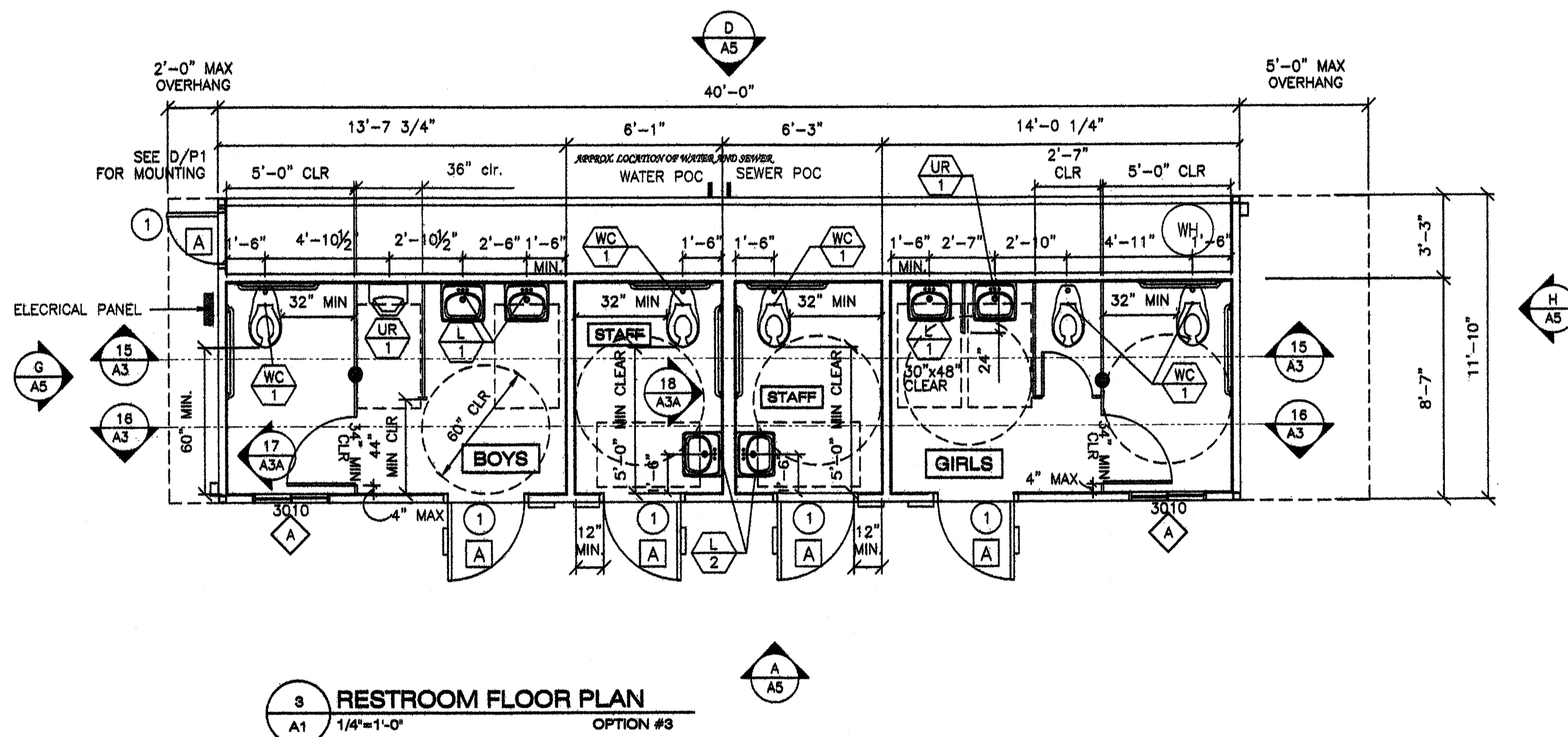
APPROVALS:



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
AC 10 FEB 20 2011
DATE 1/12/11

PROJECT No.
T-S

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3 RESTROOM FLOOR PLAN
A1 1/4"=1'-0" OPTION #3

- BUILDING FIXTURE SCHEDULE -

MARK	FIXTURE	TYPE @ KINDERGARTEN	TYPE @ ELEMENTARY	TYPE @ ADULT	REMARKS
WC 1	WATER CLOSET	WALL MOUNT TYPE AMERICAN STANDARD MODEL AFWALL 2257.103 OR EQUAL	WALL MOUNT TYPE AMERICAN STANDARD MODEL AFWALL 2257.103 OR EQUAL	WALL MOUNT TYPE AMERICAN STANDARD MODEL AFWALL 2257.103 OR EQUAL	MOUNT AS SPECIFIED IN FLOOR PLANS
WC 2	WATER CLOSET	FLOOR MOUNT TANK TYPE AMERICAN STANDARD MODEL BABY DEVORO 2315.016 OR EQUAL	FLOOR MOUNT TANK TYPE AMERICAN STANDARD MODEL COLONY 2399.010 OR EQUAL	FLOOR MOUNT TANK TYPE AMERICAN STANDARD MODEL CADET 2998.012 OR EQUAL	MOUNT AS SPECIFIED IN FLOOR PLANS
WC 3	WATER CLOSET	FLOOR MOUNT FLUSH VALVE TYPE AMERICAN STANDARD MODEL BABY DEVORO 2282.010 OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE AMERICAN STANDARD MODEL MADERA 2234.015 OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE AMERICAN STANDARD MODEL MADERA 3043.102 OR EQUAL	FLUSH VALVE ZURN MODEL Z6000 OR EQUAL MOUNT AS SPECIFIED IN FLOOR PLANS
L 1	LAVATORY	AMERICAN STANDARD MODEL LUCERNE 0356.421 OR EQUAL	---	---	AMERICAN STANDARD SINGLE CONTROL LAVATORY FAUCET MODEL 2175.205 MOUNT AS SPECIFIED IN FLOOR PLANS
L 2	LAVATORY	AMERICAN STANDARD MODEL LUCERNE 0355.012 OR EQUAL	---	---	AS SPECIFIED IN FLOOR PLANS
UR 1	URINAL	WALL MOUNT TYPE AMERICAN STANDARD MODEL ALLBROOK 6541.132 OR EQUAL	---	---	FLUSH VALVE ZURN MODEL Z6003 OR EQUAL MOUNT AS SPECIFIED IN FLOOR PLANS
M 1	MIRROR	WALL MOUNT TYPE BRADLEY MODEL 781-1830 OR EQUAL	---	---	MOUNT AS SPECIFIED IN FLOOR PLANS
GB 1	GRAB BARS	WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL R7436 (1 1/4" EXPOSED SCREW 3/8" & 42") OR EQUAL	---	---	18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
WH 1	WATER HEATER	RHEEMGLAS ENERGY MISER ELECTRIC WATER HEATER RHEEM POINT OF USE MODEL 81VP30-1 OR EQUAL	---	---	AVAILABLE IN 2 1/2, 6, 10, 15, 20 AND 30 GALLON MODELS MOUNT AS SPECIFIED IN FLOOR PLANS
FLS 1	FLOOR SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424	---	---	AMERICAN STANDARD EXPOSED YOKE WALL MOUNT UTILITY FAUCET MODEL 8344.112
ULS 1	UTILITY SINK	WALL MOUNT TYPE ELJER RADFORD SINK MODEL 241-0354	---	---	AMERICAN STANDARD EXPOSED YOKE WALL MOUNT UTILITY FAUCET MODEL 8344.112
FV 1	FLUSH VALVE	ZURN FLUSH VALVE MODEL EXPOSED Z6000	---	---	FLOW OPTIONS: 1.6 GAL. LOW CONSUMPTION FLUSH WATER CLOSET VALVE MOUNT AS SPECIFIED IN FLOOR PLANS HANDLE AT WIDE SIDE
FV 2	FLUSH VALVE	ZURN FLUSH VALVE MODEL EXPOSED Z6003	---	---	FLOW OPTIONS: 1.0 GAL. LOW CONSUMPTION FLUSH 3/4" URINAL VALVE MOUNT AS SPECIFIED IN FLOOR PLANS HANDLE AT WIDE SIDE
CS 1	CLASSROOM SINK	TEKA SINGLE BOWL SINK MODEL #256-413 OR EQUAL	---	---	AS SPECIFIED IN FLOOR PLANS
CS 1	KITCHEN SINK	TEKA DOUBLE BOWL SINK MODEL #336-413 OR EQUAL	---	---	AS SPECIFIED IN FLOOR PLANS

A A1 FIXTURE CALL OUTS

- NOTES:
- CLOSER END CAPS ON FRONT AND REAR OF ROOF DECK. NO EXPOSED RIBS.
 - SOLID PLYWOOD DECK WITH FELT UNDERLAYMENT AT ALL STANDING SEAM METAL ROOFS.
 - CLOSED EAVES. NO EXPOSED ROOF-FRAMING.

- SHEET NOTES -

- 3'-0" x 1'-0" WINDOW
- ROOM I.D. SIGNAGE PER DETAIL 2 & 7/AD (BY OWNER)
- RESTROOM I.D. SIGNAGE PER DETAIL 1 & 6/AD (BY OWNER)
- FIRE EXTINGUISHER TOP OF BRACKET @ +48" A.F.F.
- EXIT TACTILE SIGN PER DETAIL 10/AD (BY OWNER)
- HVAC UNIT (LOCATION MAY VARY)
- ELECTRICAL PANEL (LOCATION MAY VARY)
- DOWNSPOUT (QUANTITY & LOCATION MAY VARY)
- FLOOR DRAIN (LOCATION MAY VARY) TYP.
- FLOOR LIVE LOAD SIGN PER 1603A.3 2007 CBC
- OPTIONAL TYPICAL RAMP REFER TO SHEET S6R FOR DETAILS
- CLASSROOM ID & ISA PER DETAIL 5 & 9/AD

- GENERAL NOTES -

- REFER TO SHEETS A2 & A2.1 FOR ADDITIONAL FLOOR PLAN CONFIGURATIONS
- INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING REFER TO SHEET SSA FOR ATTACHMENTS.
- PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER PER CBC 1008.1.9
- IF OCCUPANCY LOAD EXCEEDS 50 PROVIDE A SECOND EXIT DOOR PER CBC TABLE 1015.1
- PROVIDE OCCUPANT LOAD SIGN (BY OWNER) CAPACITY POSTING PER CBC SECTION 1004.3 TITLE 19 C.C.R. SECTION 3.3.0. THIS ROOM SHALL BE POST WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM.

SYMBOL SCHEDULE

- # DOOR (REFER TO SHEET A3 FOR TYPES)
- X DOOR HARDWARE TYPE REFER TO DOOR HARDWARE SCHEDULE
- A WINDOW (REFER TO SHEET A3 FOR TYPES)

DOOR HARDWARE SCHEDULE

A	EXTERIOR DOOR LOCKSET W/ LEVER HARDWARE PROVIDED BY DISTRICT
B	EXTERIOR DOOR PANIC BAR W/ PULL ON EXTERIOR VON DUPRIN 22Lx230NL (WHEN REQUIRED)

Exterior Door
 A) Hinges: Hager 4-1/2x4-1/2 butts BB1275 US200.1-1/2 pair each door with set screw in barrel and ball bearing design
 C) Closer: Norton 7500DA or 8500BF series, LCN 1460 Del series or equal. (5 lbs. max. pressure) (15 lbs. max at fire doors.)
 D) Weatherstripping: All exterior doors shall be weatherstripped with Pemko 299D, Ultra WS007, at door jambs and head or equal.
 E) Threshold: Threshold shall be Pemko 271 AV 5" x 1/4" THICK aluminum with Pemko 216 AV Ultra TH042 door bottom.

BASED ON PC# 02-109808

REVISIONS		
NO	DATE	DESCRIPTION

DATE: 08/04/10
 SCALE: NOTED
 DRAWN BY: RS
 SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT

12' x 40' RELOCATABLE BUILDING
 TYPICAL FLOOR PLANS

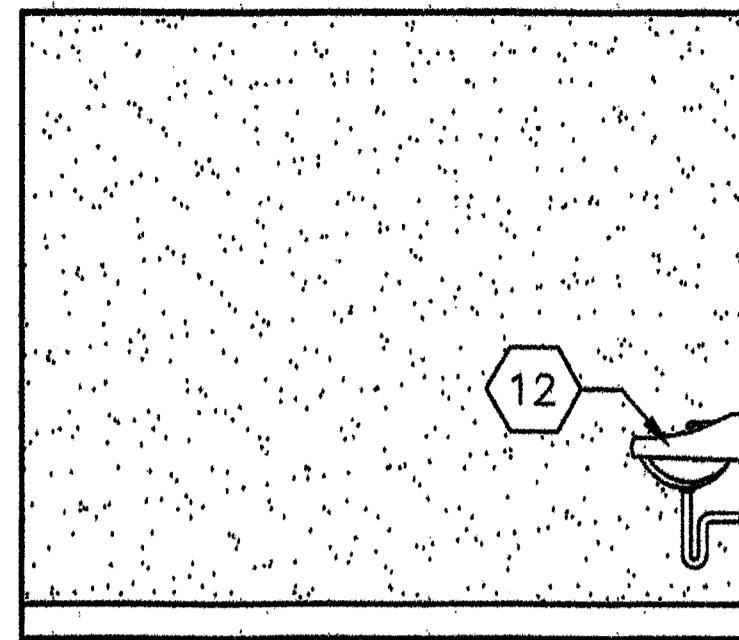


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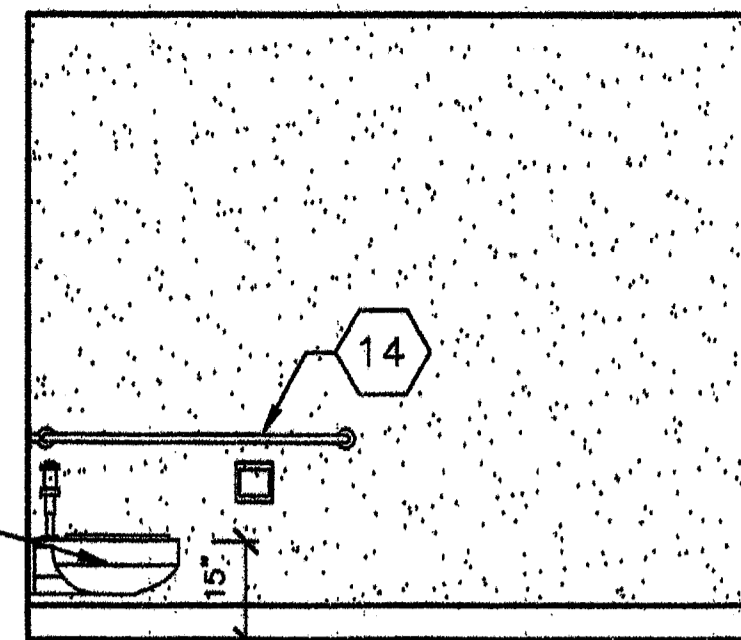
STATE OF CALIFORNIA ARCHITECTURAL BOARD
 No. C22691
 Ren. 2-24-11

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 02-111612
 AC. 10/11/11
 DATE: 11/2/11

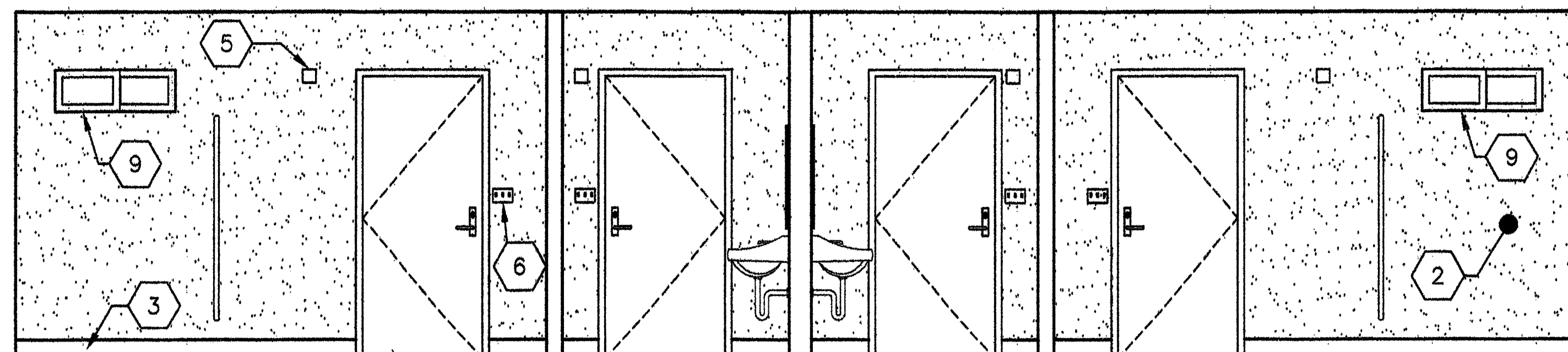
PROJECT NO.
A1



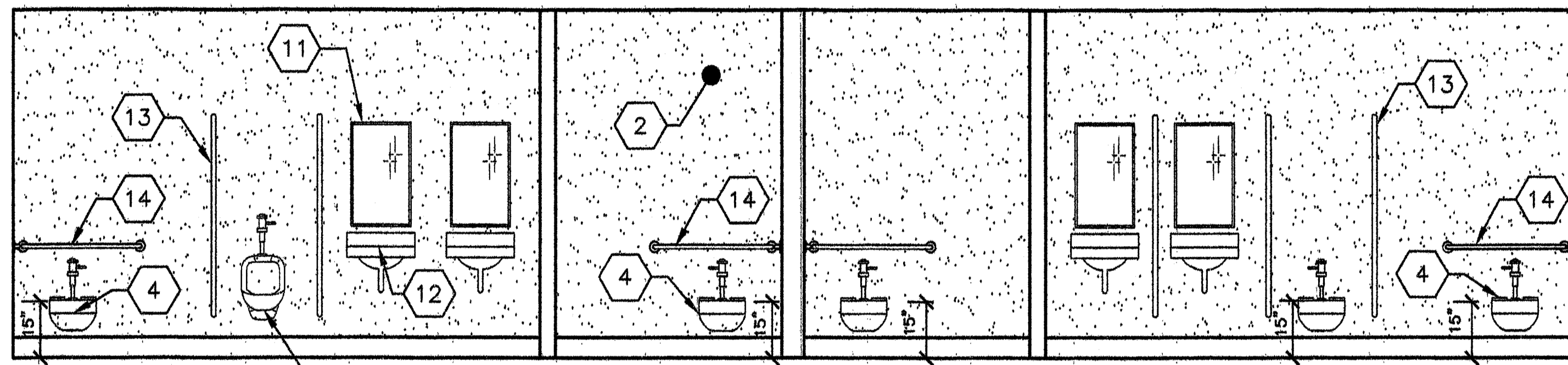
13 RESTROOM ELEVATION
A3 1/4"=1'-0" (BOYS)



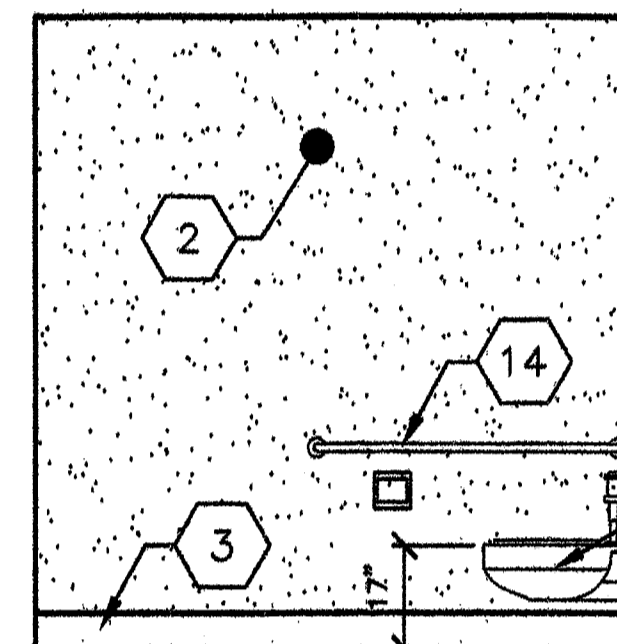
14 RESTROOM ELEVATION
A3 1/4"=1'-0" (BOYS)



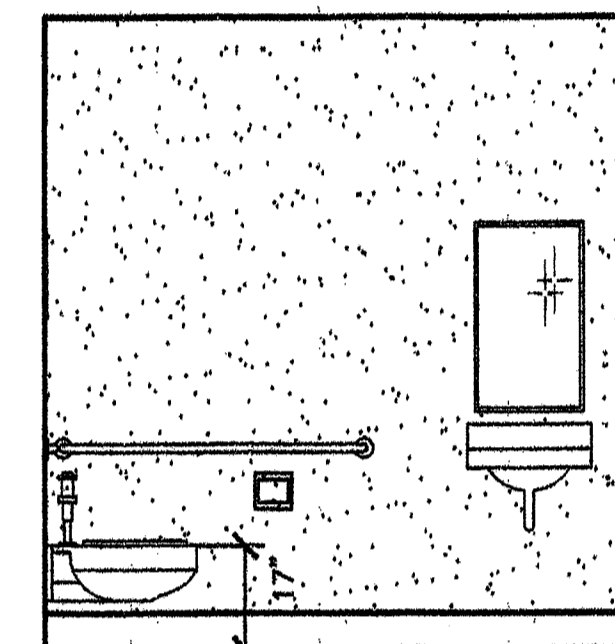
16 RESTROOM ELEVATION
A3 1/4"=1'-0" OPTION #3



15 RESTROOM ELEVATION
A3 1/4"=1'-0" OPTION #3



17 INTERIOR ELEVATION
A3 1/4"=1'-0" OPTION #3



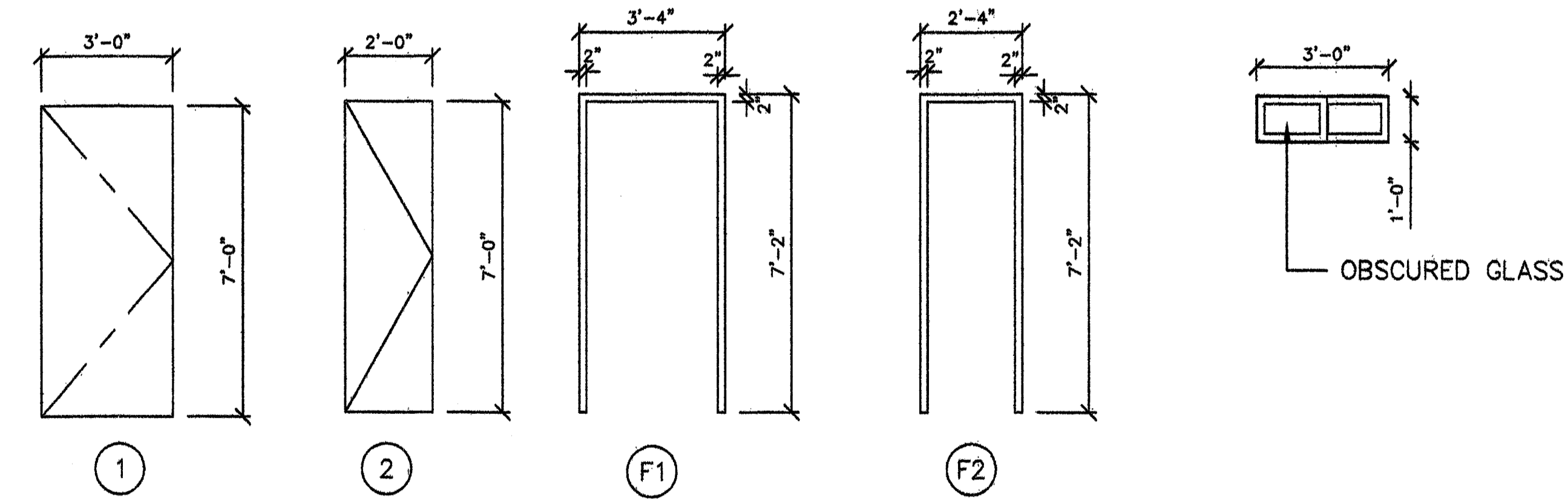
18 INTERIOR ELEVATION
A3 1/4"=1'-0" OPTION #3

- KEY NOTES -**
- 1 TYP EXTERIOR DOOR
 - 2 F.R.P. FIBER REINFORCED PLASTIC
 - 2A VINYL WRAPPED TACKABLE WALLS
 - 3 6" BASE
 - 3A 4" BASE
 - 4 TYP. TOILET
 - 5 HORN/STROBE J-BOX SEE ELECTRICAL SHEETS
 - 6 LIGHT SWITCH SEE ELECTRICAL SHEETS
 - 7 NOT USED
 - 8 TYP GFIC OUTLET SEE ELECTRICAL SHEETS
 - 9 3010 OBSCURED GLASS WINDOW
 - 10 TYP. URINAL
 - 11 TYP. MIRROR
 - 12 TYP. LAVATORY
 - 13 TOILET PARTITION
 - 14 GRAB BAR
- NOTE: ALL INTERIOR SURFACE REQUIREMENTS PER CBC CHAPTER II

ROOM FINISHES SCHEDULE										DOOR SCHEDULE								
ROOM NUMBER	ROOM NAME	FLOOR	FINISHES					REMARKS	DOORS			FRAMES						
			BASE	FRONT	REAR	RIGHT	LEFT		CEILING HEIGHT	DOOR NO.	FRAME OPENING SIZE	MATERIAL	FIRE RATING	HARDWARE SET NO.	QUANTITY	MATERIAL	HEAD DETAIL	JAMB DETAIL
1	GIRLS RESTROOM	B	E	I	I	I	G	8'-6"		1	3'-0" x 7'-0"	HM	A	1	STL	9/ASA	4/ASA	
2	STAFF RESTROOM	B	E	I	I	I	G	8'-6"		2	2'-0" x 7'-0"	HM	A	1	STL	9/ASA	4/ASA	
3	STAFF RESTROOM	B	E	I	I	I	G	8'-6"										
4	BOYS RESTROOM	B	E	I	I	I	G	8'-6"										

WINDOW NO.	AMT.	TYPE	WIDTH	HEIGHT	FINISH	GLASS TYPE	U-FACTOR	SHGC
1	2	SLIDER	3'-0"	1'-0"	BRONZE	OBSCURED	0.780	0.430

EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 CLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 43% MAXIMUM.



5 DOOR AND DOOR FRAME TYPES
A3 3/8"=1'-0"

6 WINDOW TYPES
A3 3/8"=1'-0"

REVISIONS

NO	DATE	DESCRIPTION

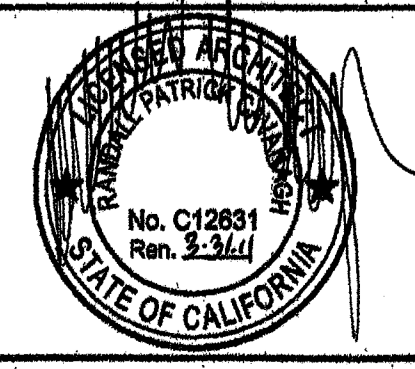
DATE: 08/03/10
SCALE: NOTED
DRAWN BY: MP
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
COLLEGE HEIGHTS ELEMENTARY SCHOOL

12'X40' RELOCATABLE BUILDING
TYPICAL INTERIOR ELEVATIONS



APPROVALS:



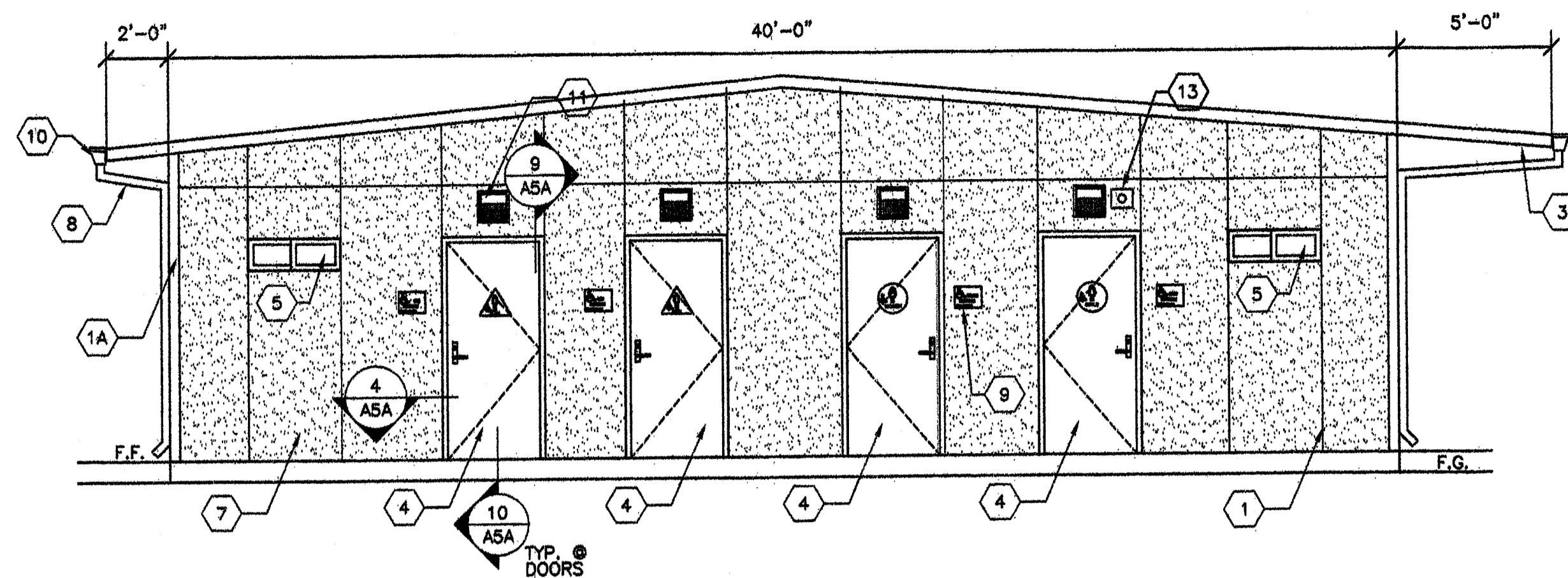
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
DATE: 11/2/11

PROJECT No.
A3

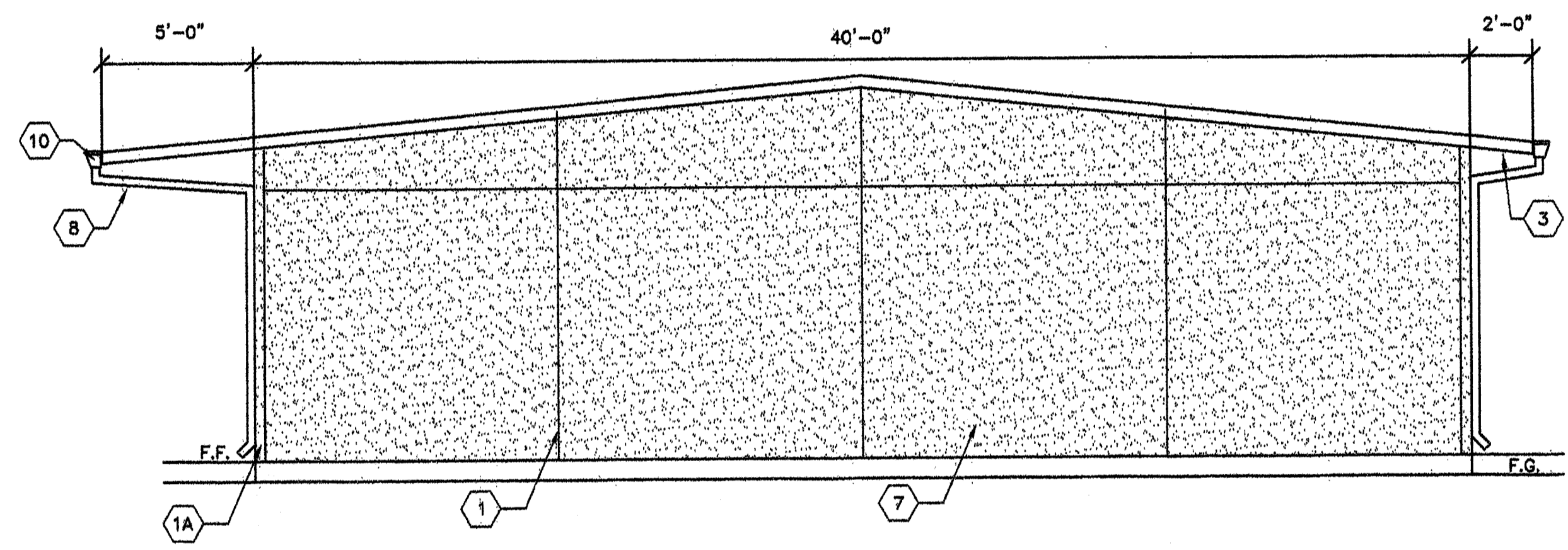
BASED ON PC# 02-109808

- SHEET NOTES -

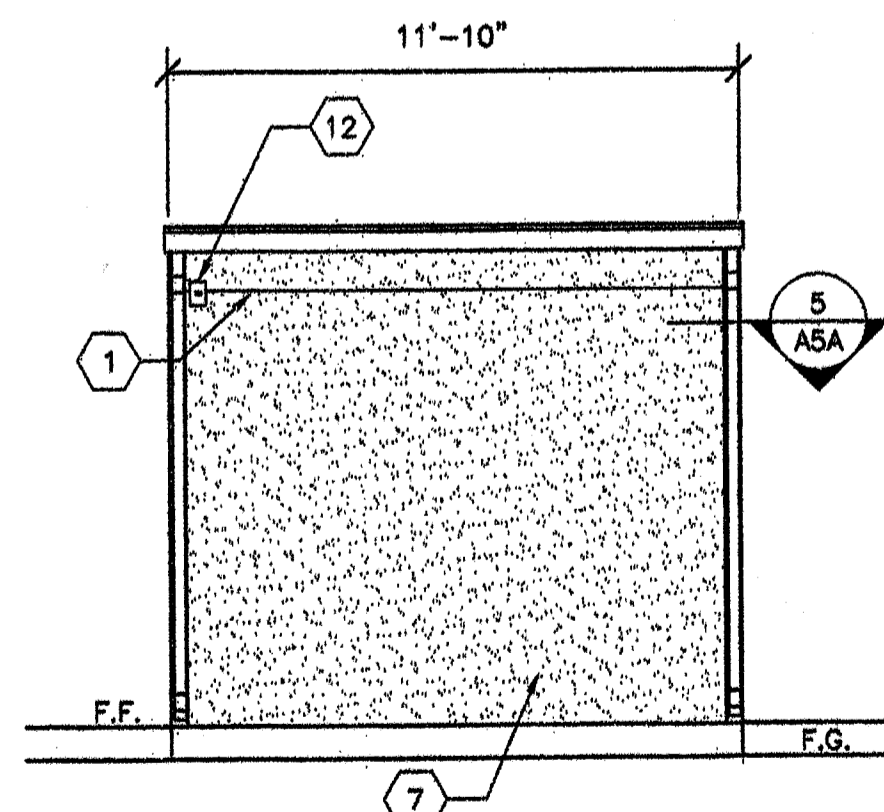
- 1 CONTROL JOINT (LOCATIONS MAY VARY)
- 1A 16 GA. FLASHING TRIM @ MODLINES TYP.
- 2 STANDING SEAM METAL ROOFING
- 3 OVERHANG
- 4 TYPICAL EXTERIOR DOOR
- 5 WINDOW SEE SPEC'S
- 6 HVAC UNIT TYP.
- 7 ACRYLIC TEXTURED FINISH OVER HARD-BOARD
- 8 DOWNSPOUT (QUANTITY & LOCATION MAY VARY)
- 9 ROOM ID SIGNAGE (NIC) TYP REFER TO DETAIL 5/AD
- 10 GUTTER
- 11 EXTERIOR LIGHT FIXTURE TYP
- 12 MODULAR IDENTIFICATION TAG, +90" ABOVE F.F.
- 13 FIRE ALARM HORN (REFER TO E1)
- 14 WP/G.F.C.I TYP. @ HVAC UNITS SEE ELECTRICAL SHEETS.



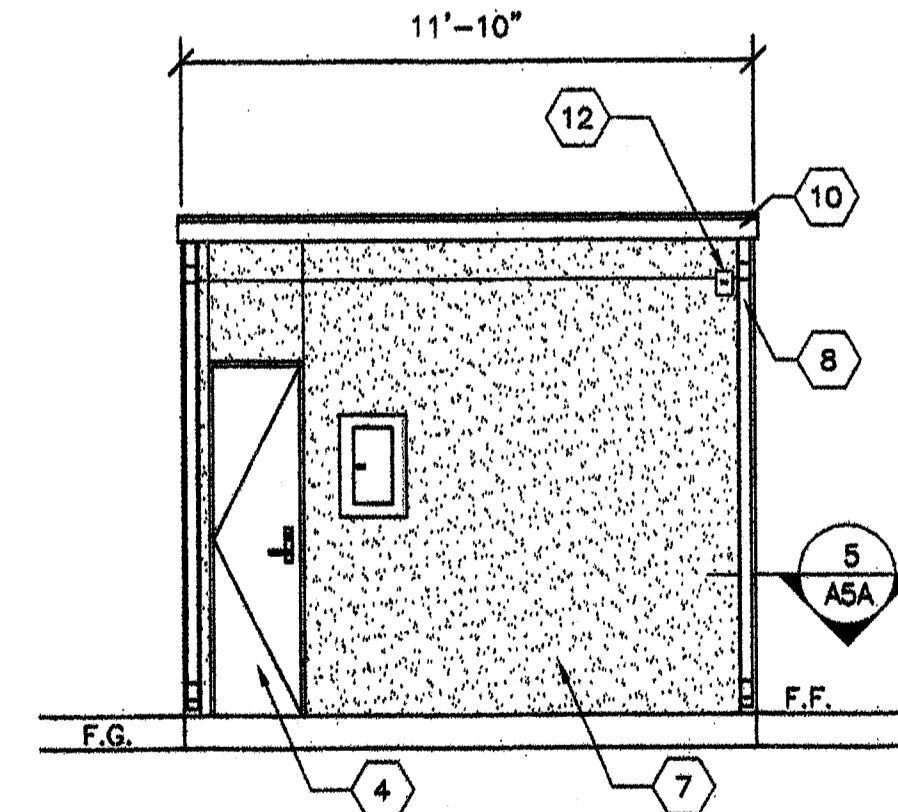
A FRONT EXTERIOR ELEVATION
A5 1/4"=1'-0"



D REAR EXTERIOR ELEVATION
A5 1/4"=1'-0"



G SIDE EXTERIOR ELEVATION
A5 1/4"=1'-0"



H SIDE EXTERIOR ELEVATION
A5 1/4"=1'-0"

REVISIONS		
NO	DATE	DESCRIPTION

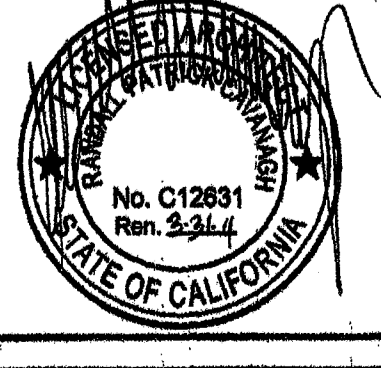
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SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
MCKINLEY SCHOOL

12'X40' RELOCATABLE BUILDING
TYPICAL EXTERIOR ELEVATIONS (SYNT. STUCCO OPTION)

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(209)825-1921 Fax (209)825-7018
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APPROVALS:



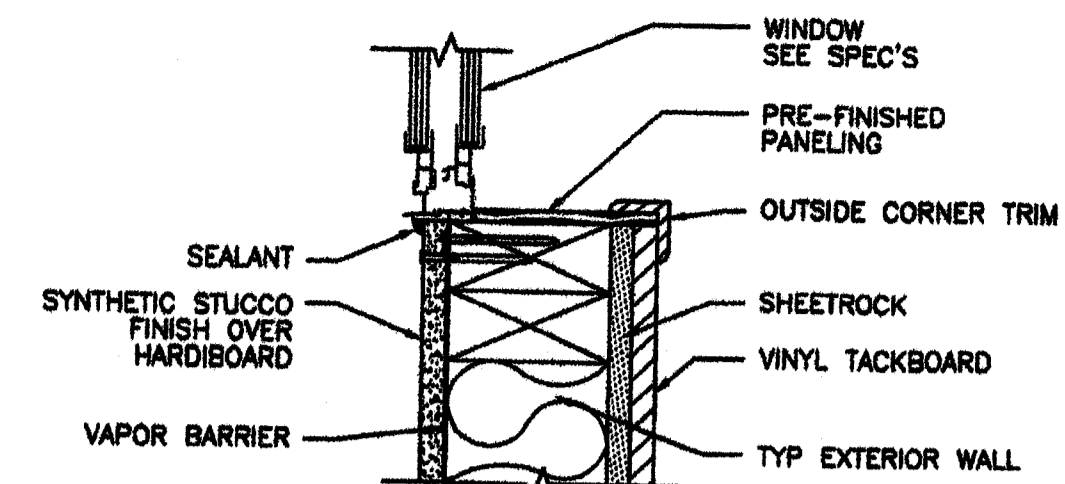
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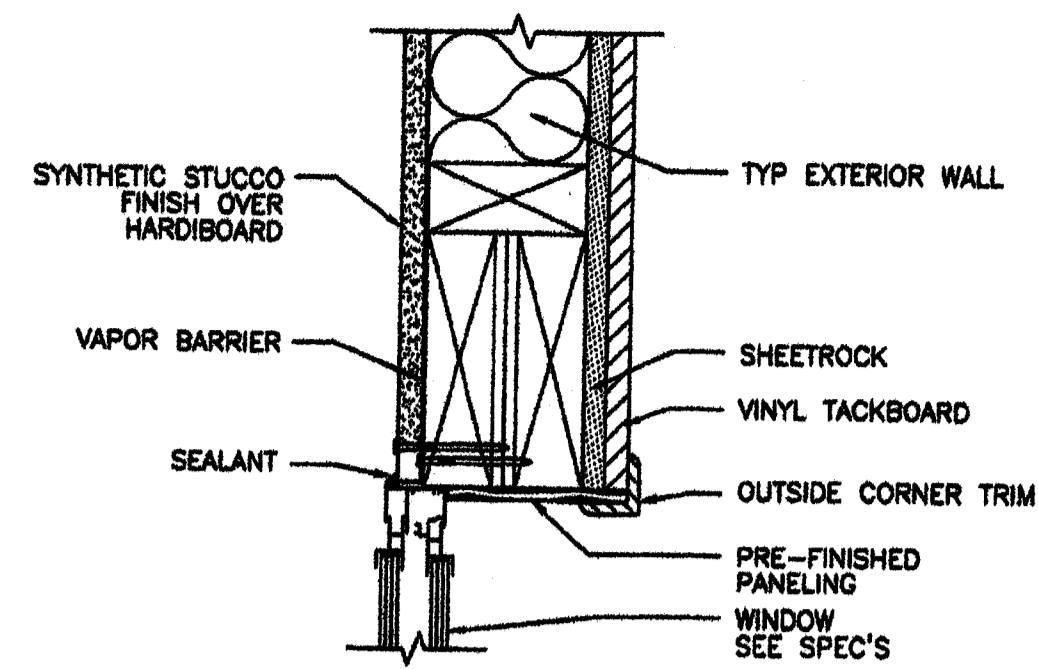
PROJECT No.
A5

BASED ON PC# 02-109808

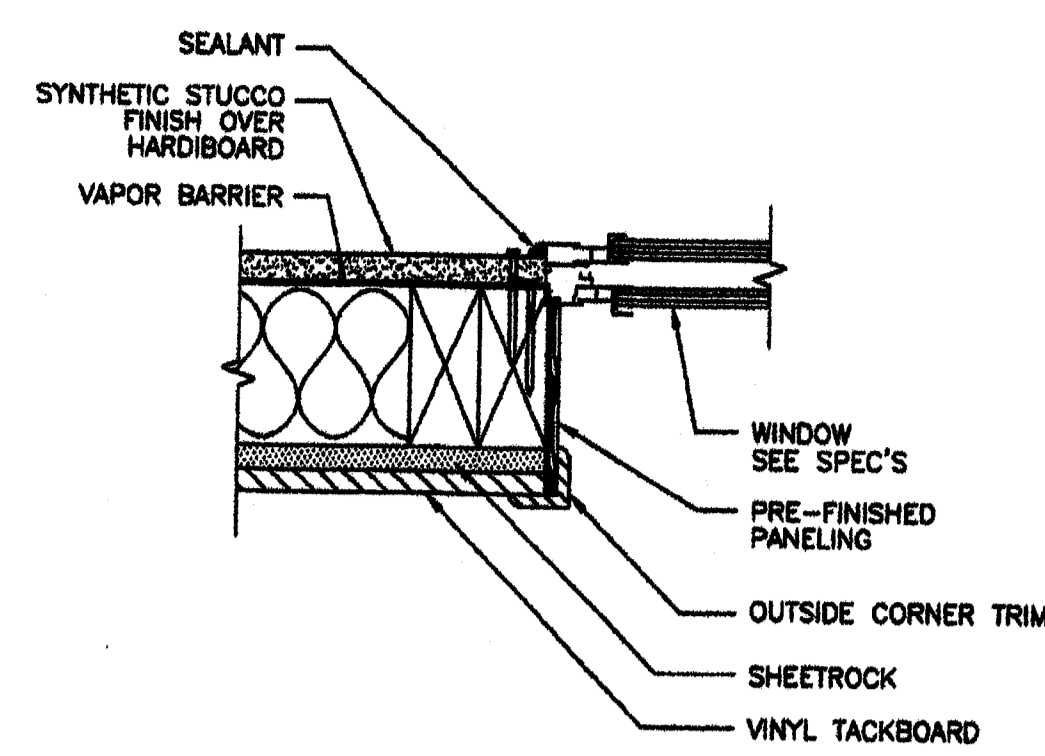
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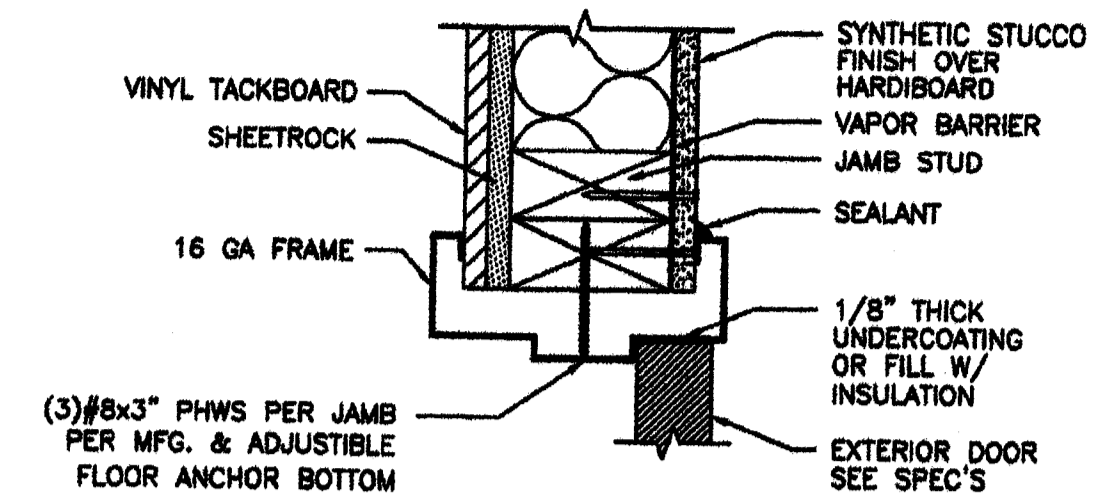
1 TYP WINDOW SILL DETAIL
ABA 8'-1'-0"



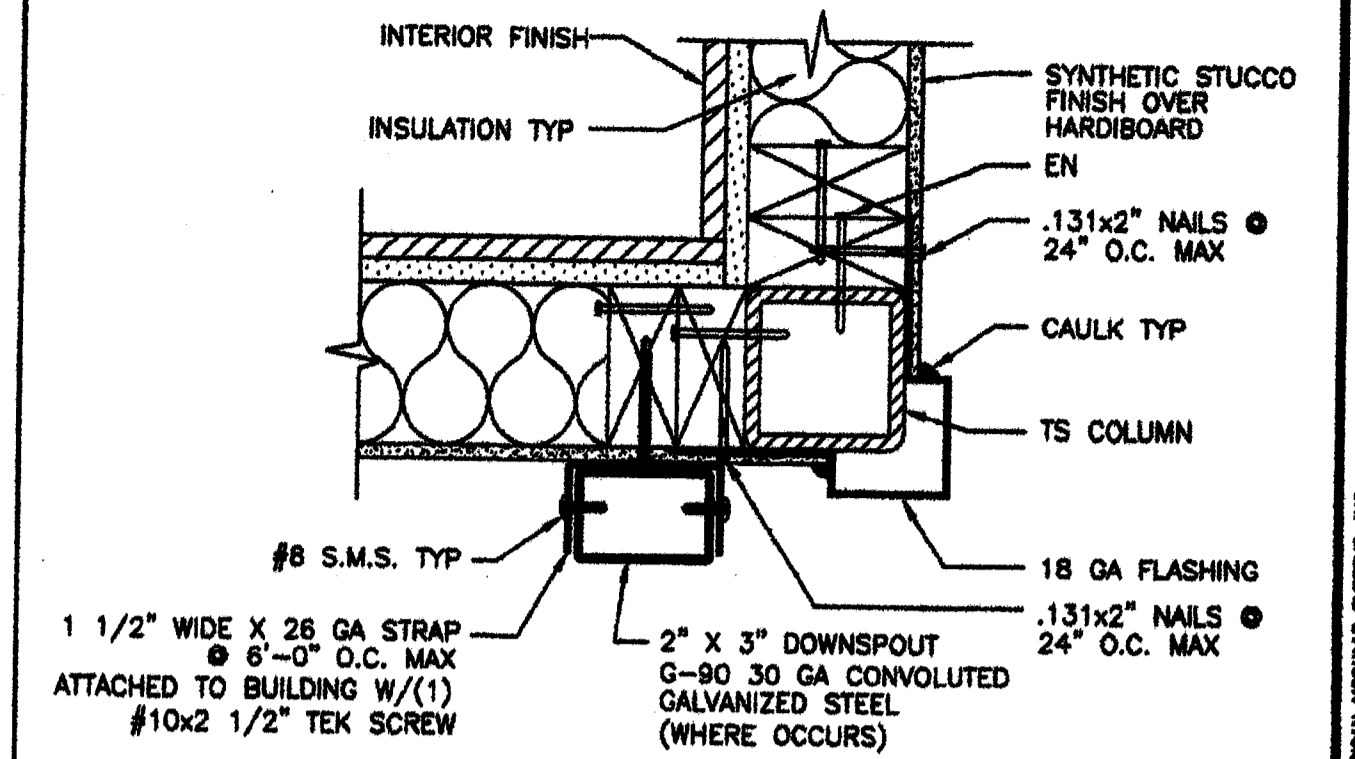
2 TYP WINDOW HEADER DETAIL
ABA 8'-1'-0"



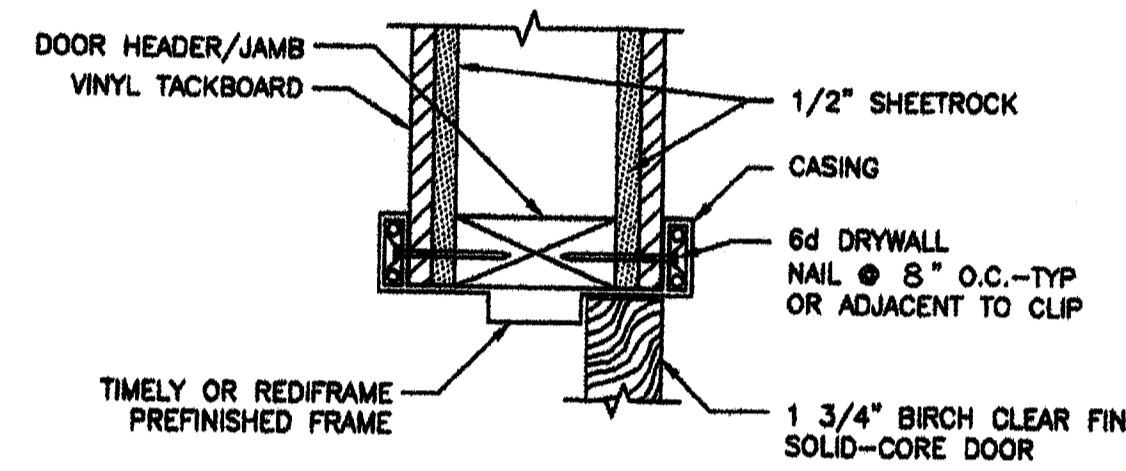
3 TYP WINDOW JAMB DETAIL
ABA 8'-1'-0"



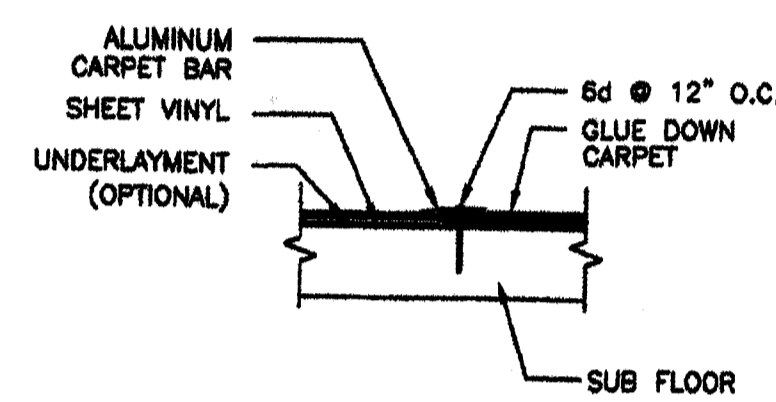
4 TYP DOOR JAMB DETAIL
ABA 8'-1'-0"



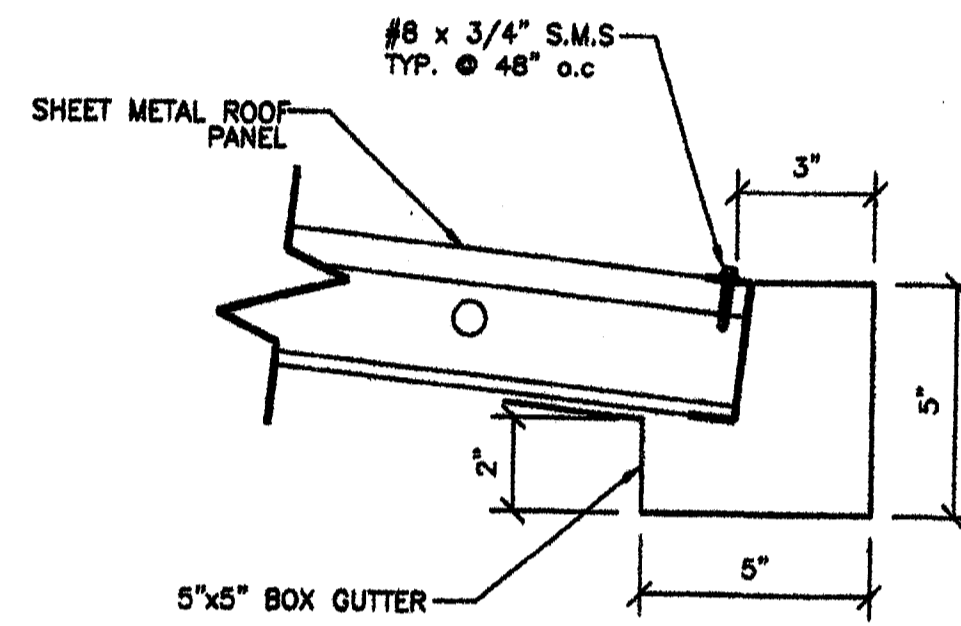
5 DOWNSPOUT ATTACHMENT DETAIL
ABA 8'-1'-0"



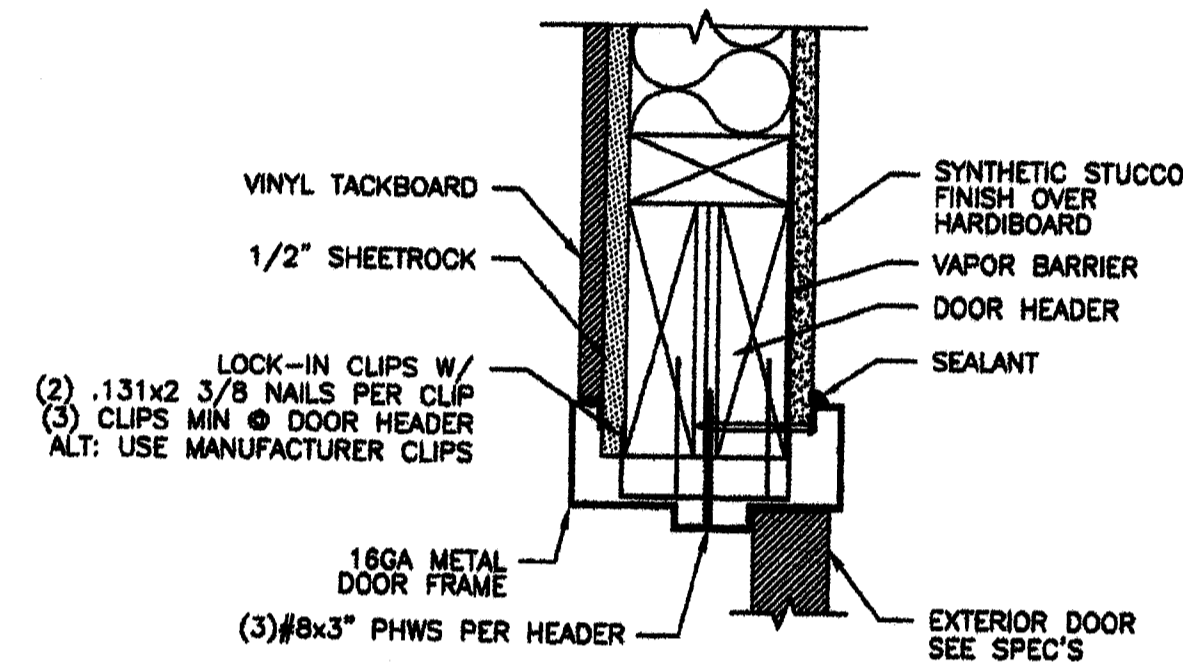
6 TYP INTERIOR DOOR HEADER DETAIL
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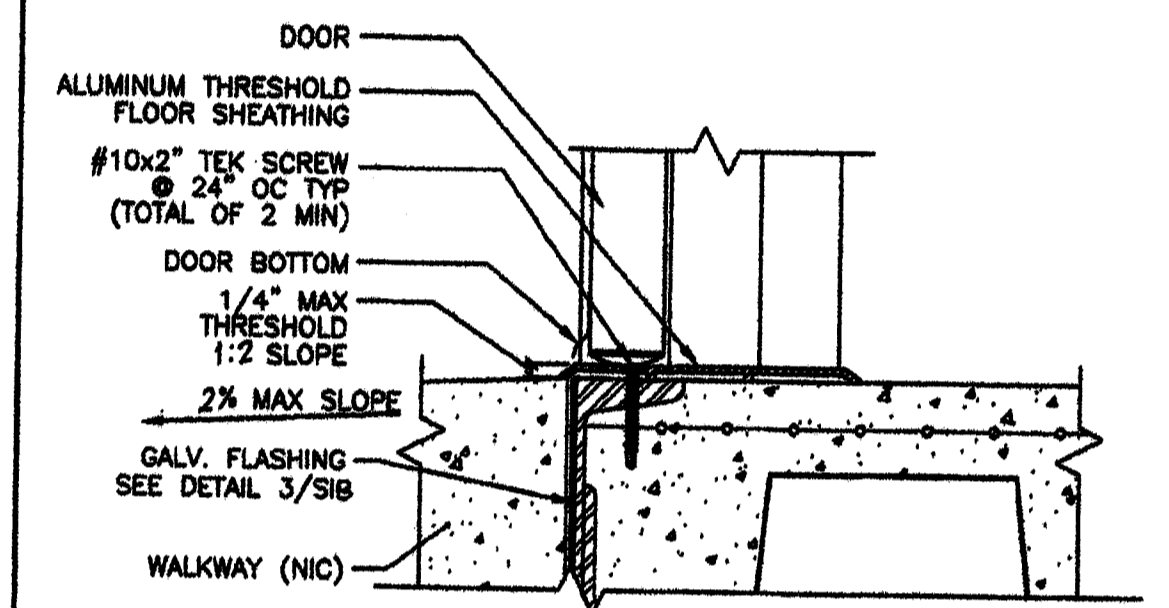
7 FLOORING DETAIL
ABA 8'-1'-0"



8 TYP GUTTER ATTACHMENT DETAIL
ABA 8'-1'-0"



9 TYP DOOR HEADER DETAIL
ABA 8'-1'-0"



10 THRESHOLD DETAIL
ABA 1 1/2'-1'-0"

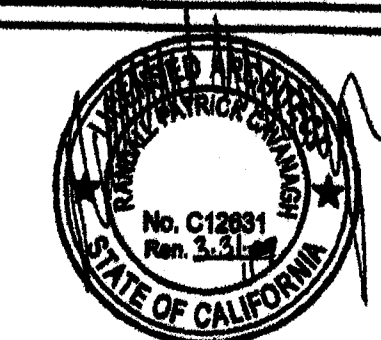
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NO	DATE	DESCRIPTION
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DATE: 2/24/09
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
12'X40' RELOCATABLE BUILDING
ARCHITECTURAL DETAILS (SYNT. STUCCO OPTION)



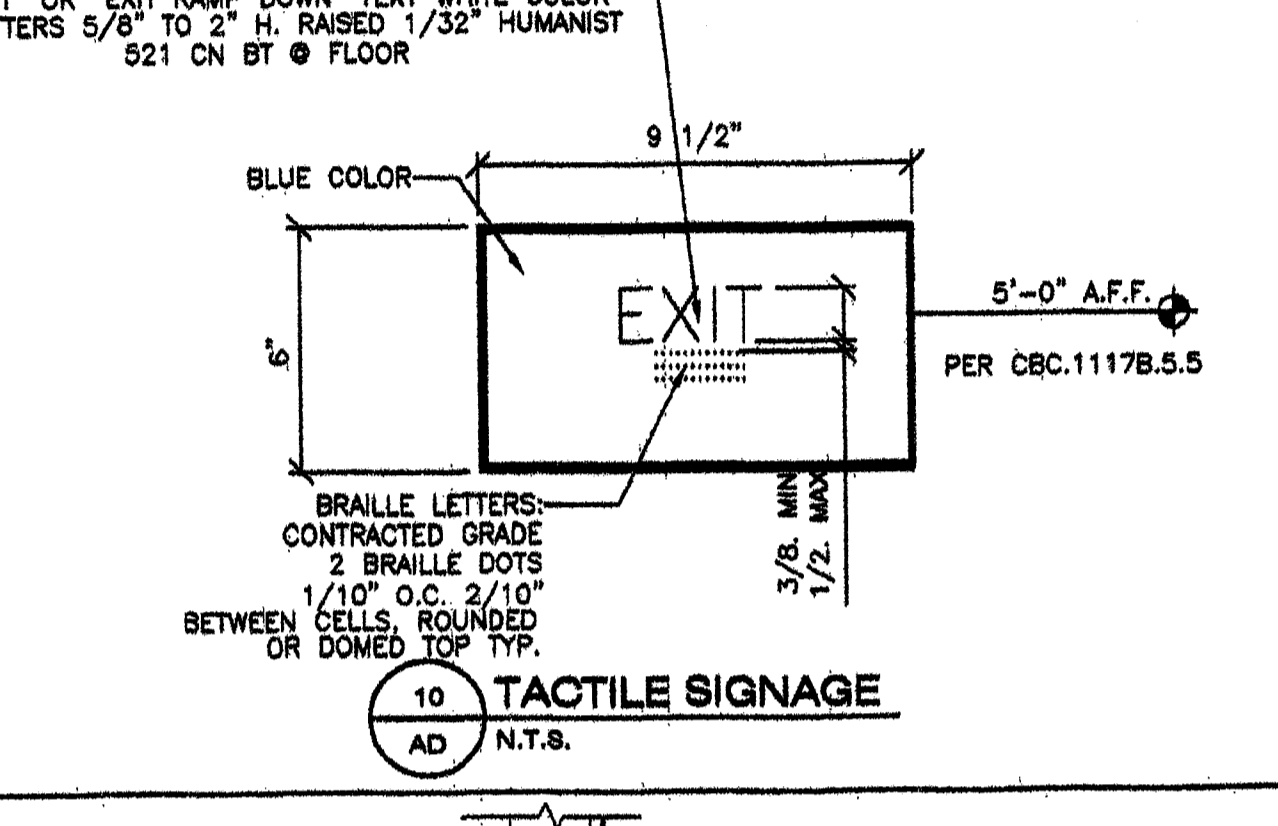
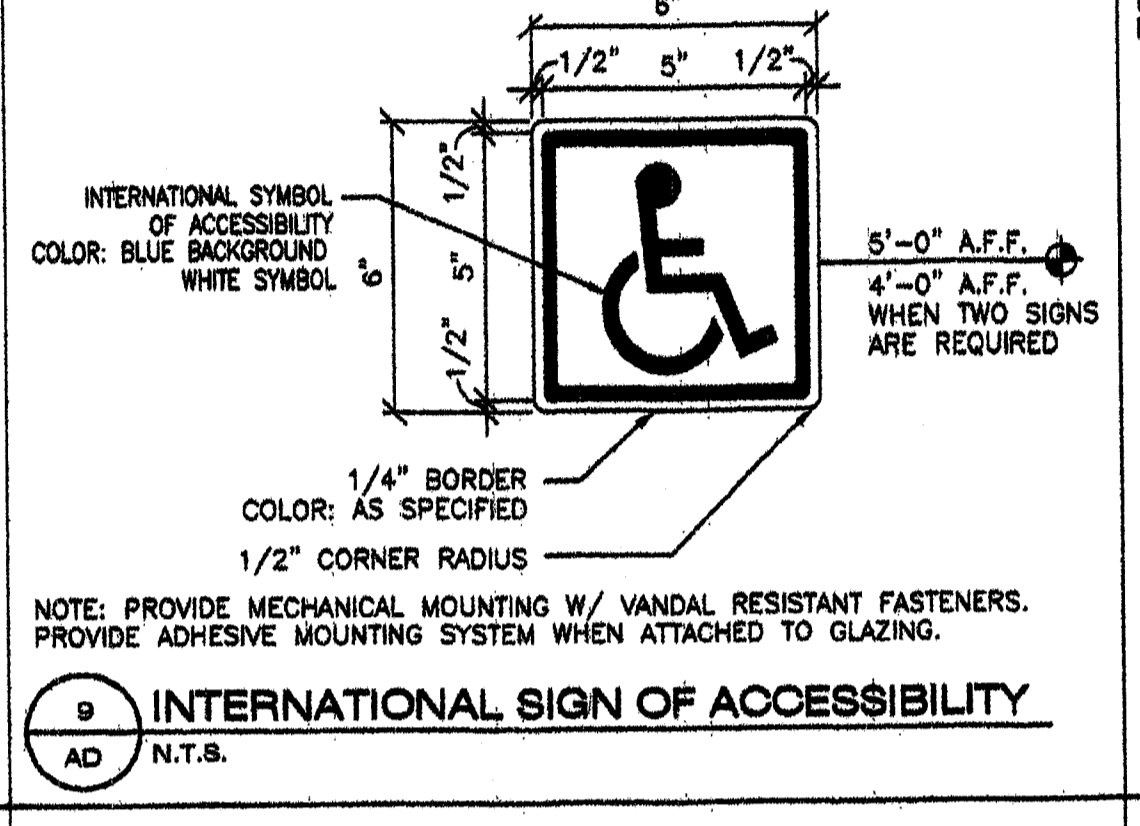
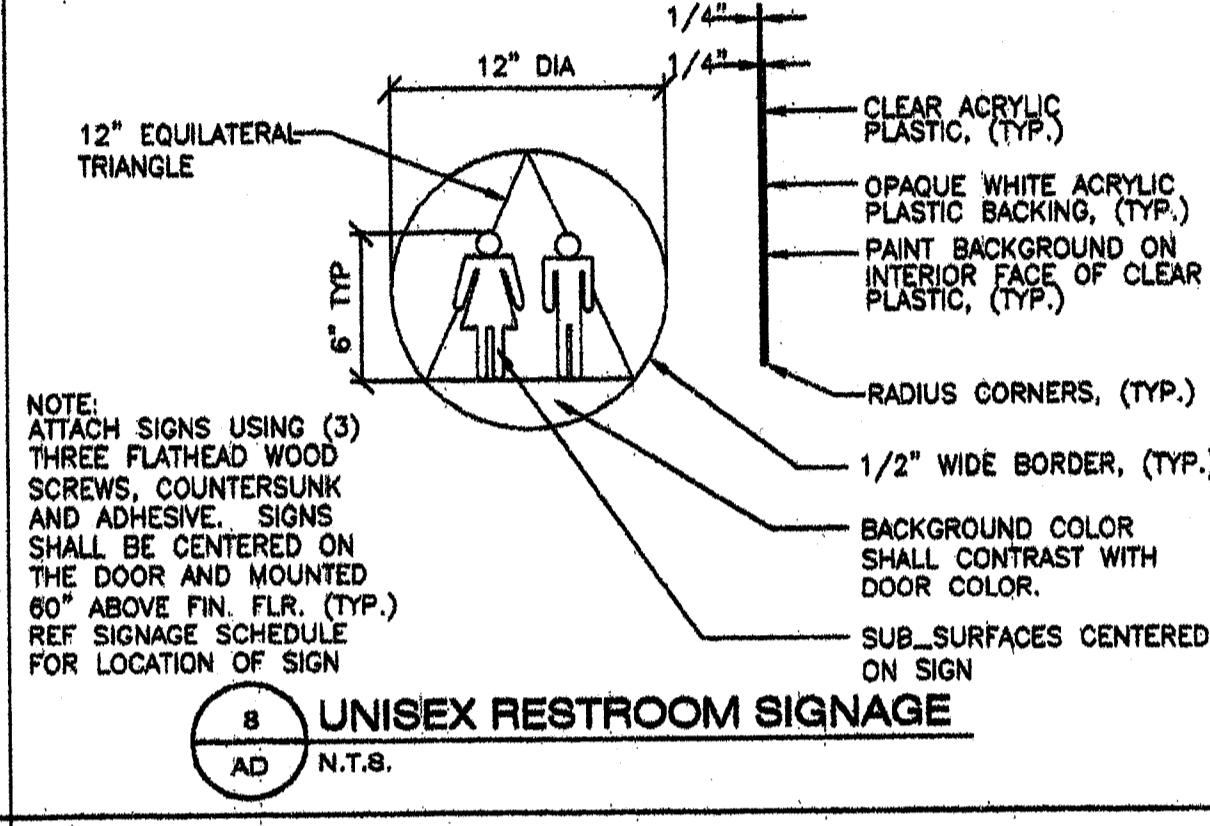
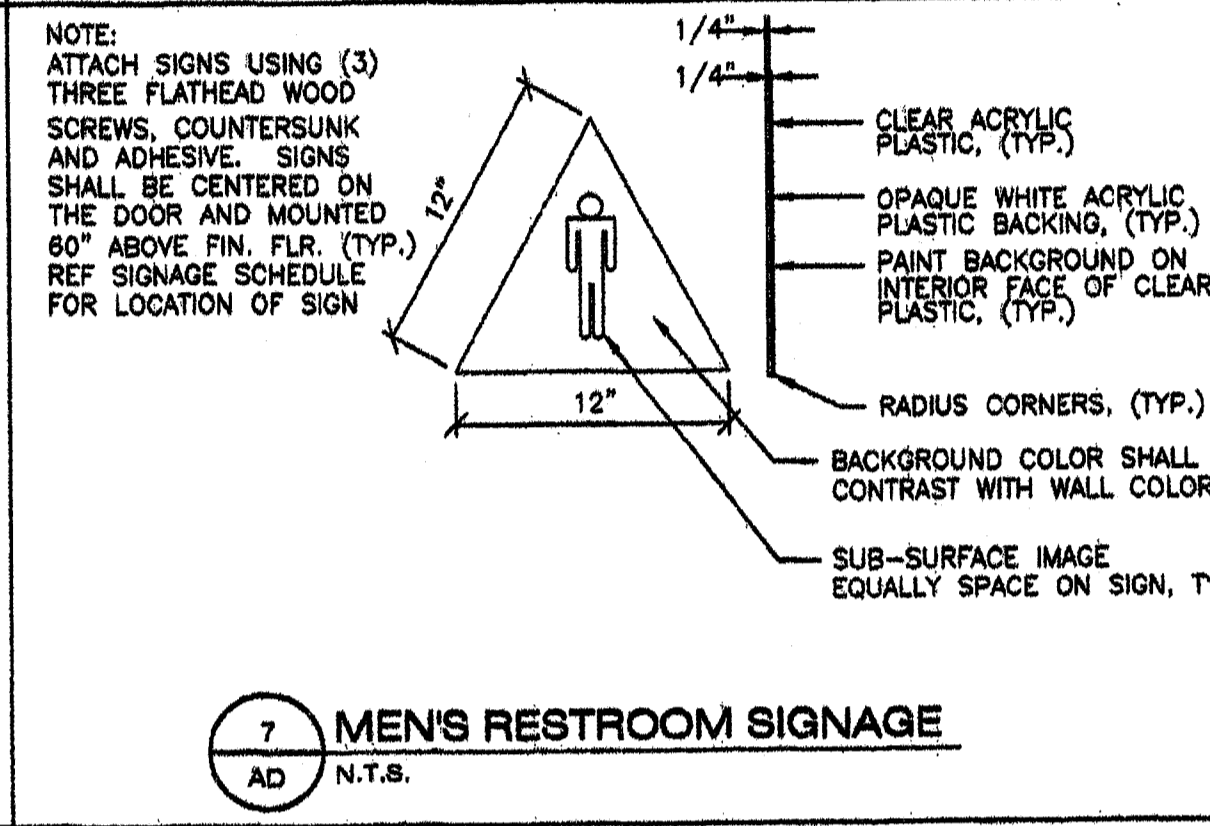
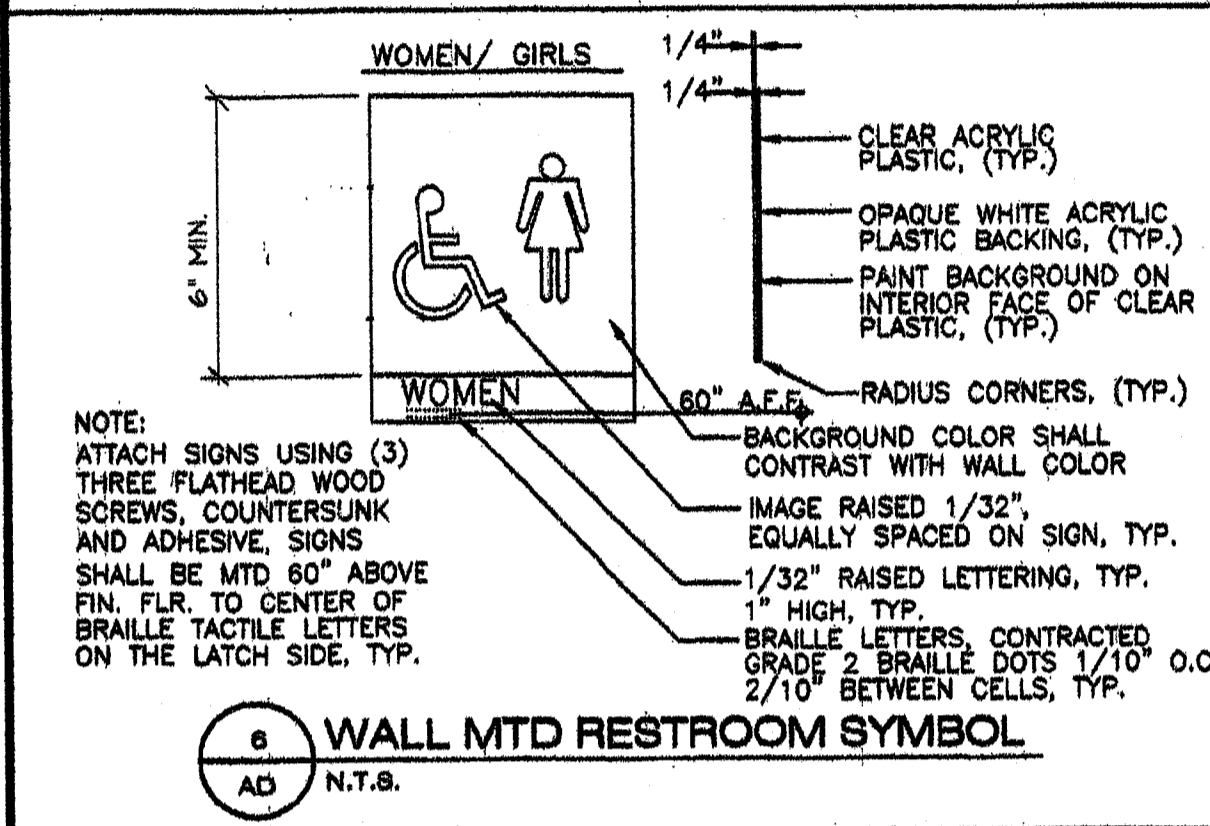
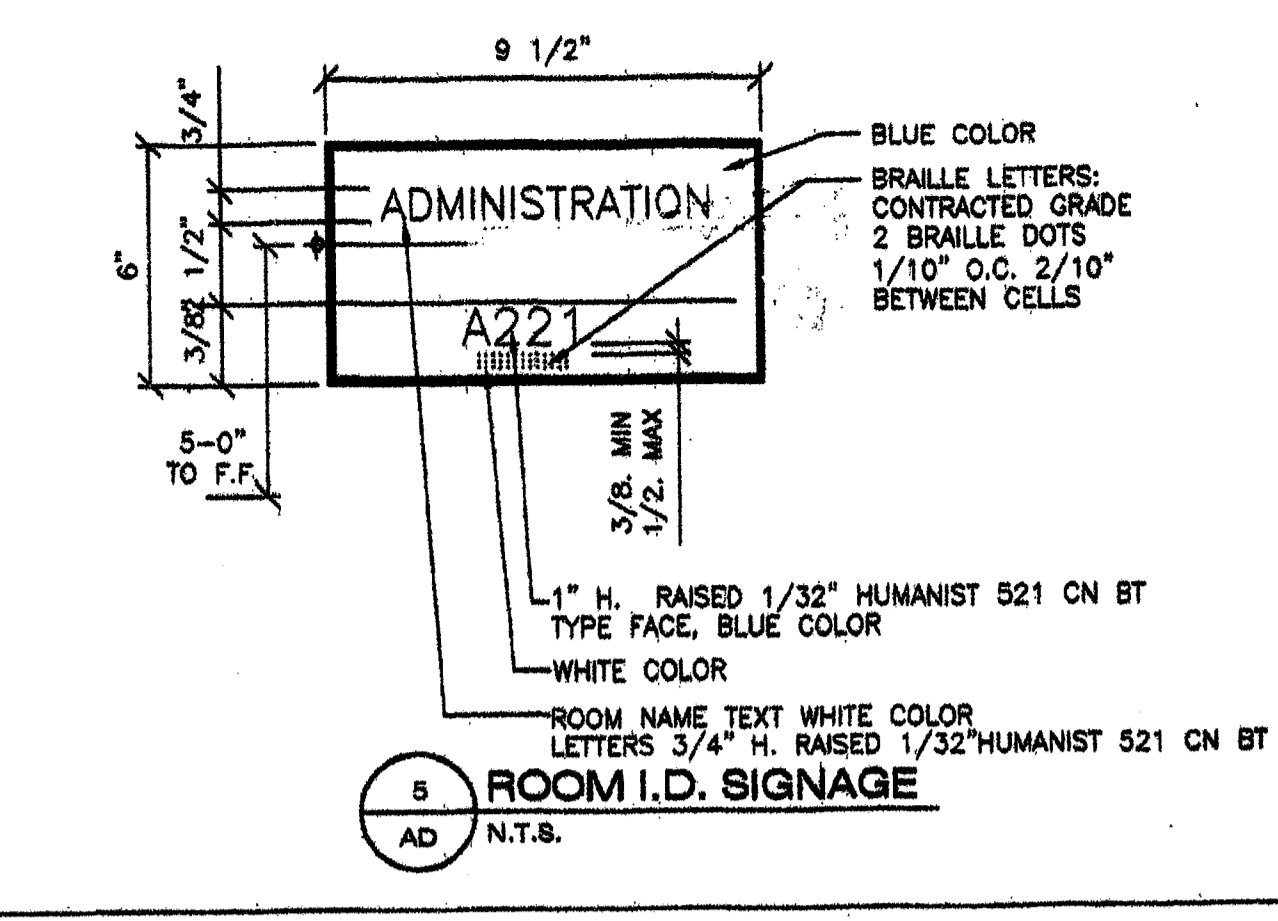
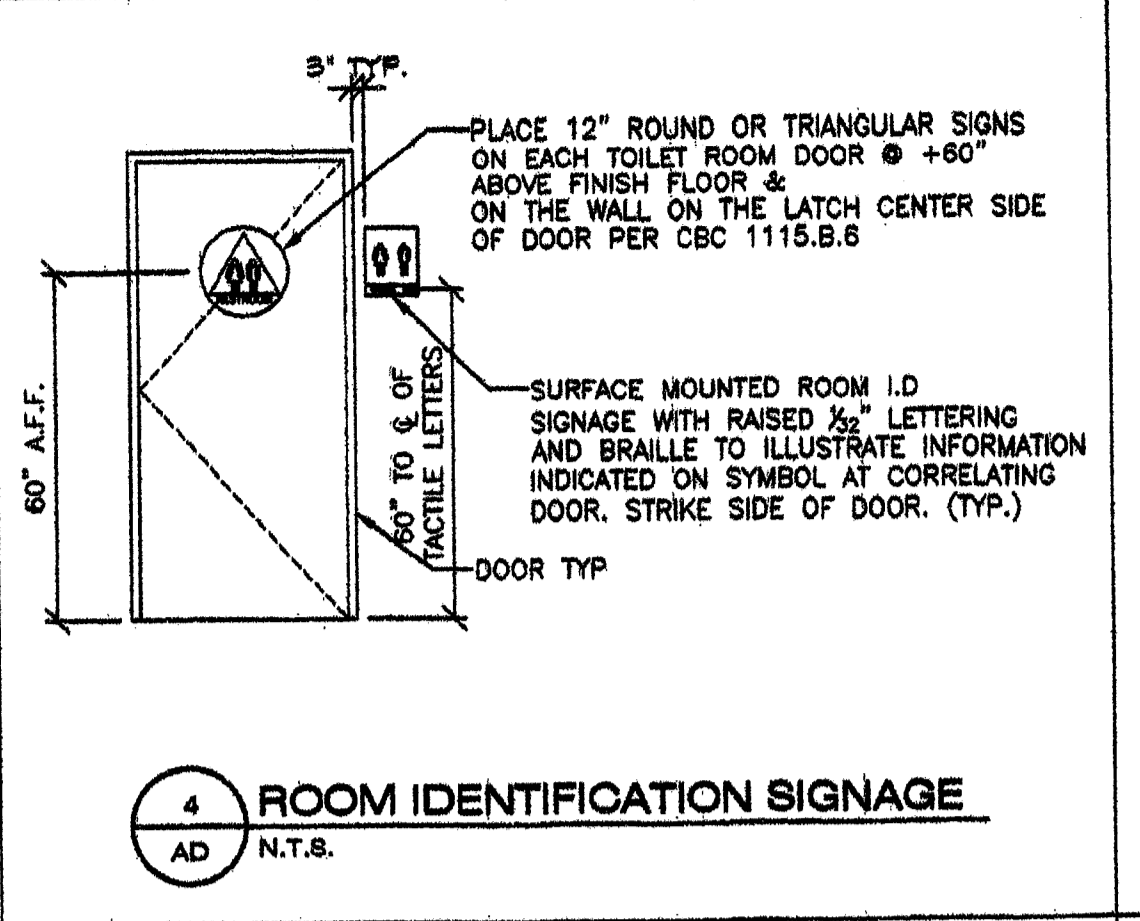
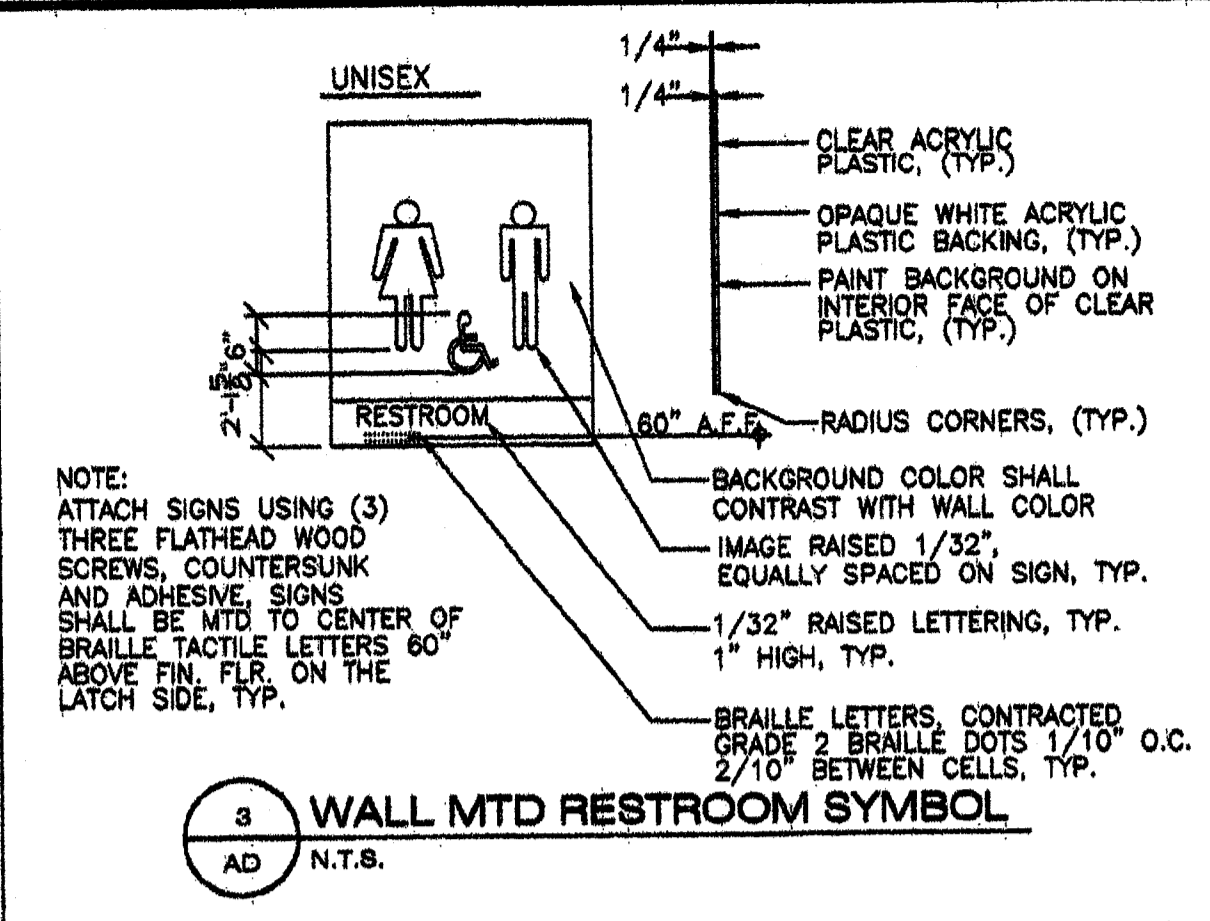
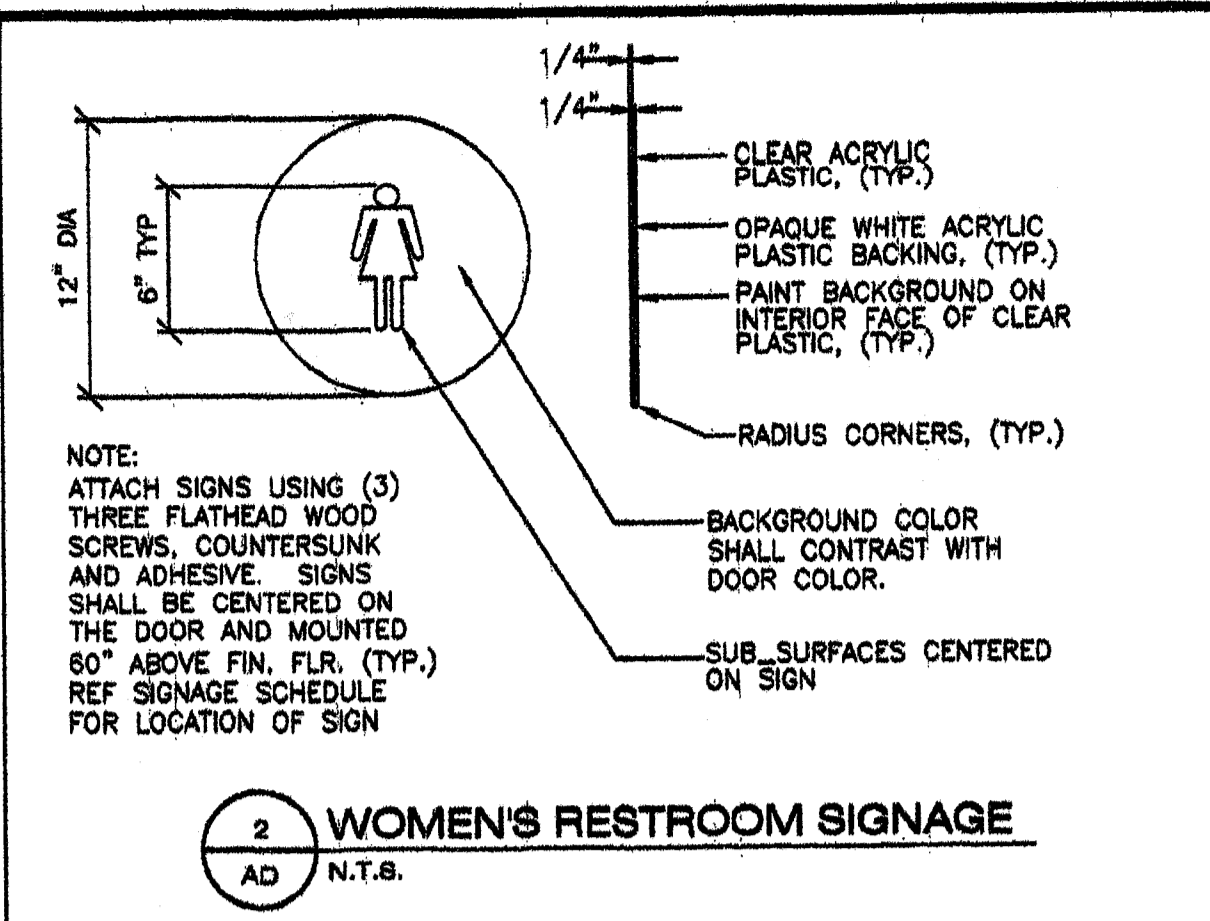
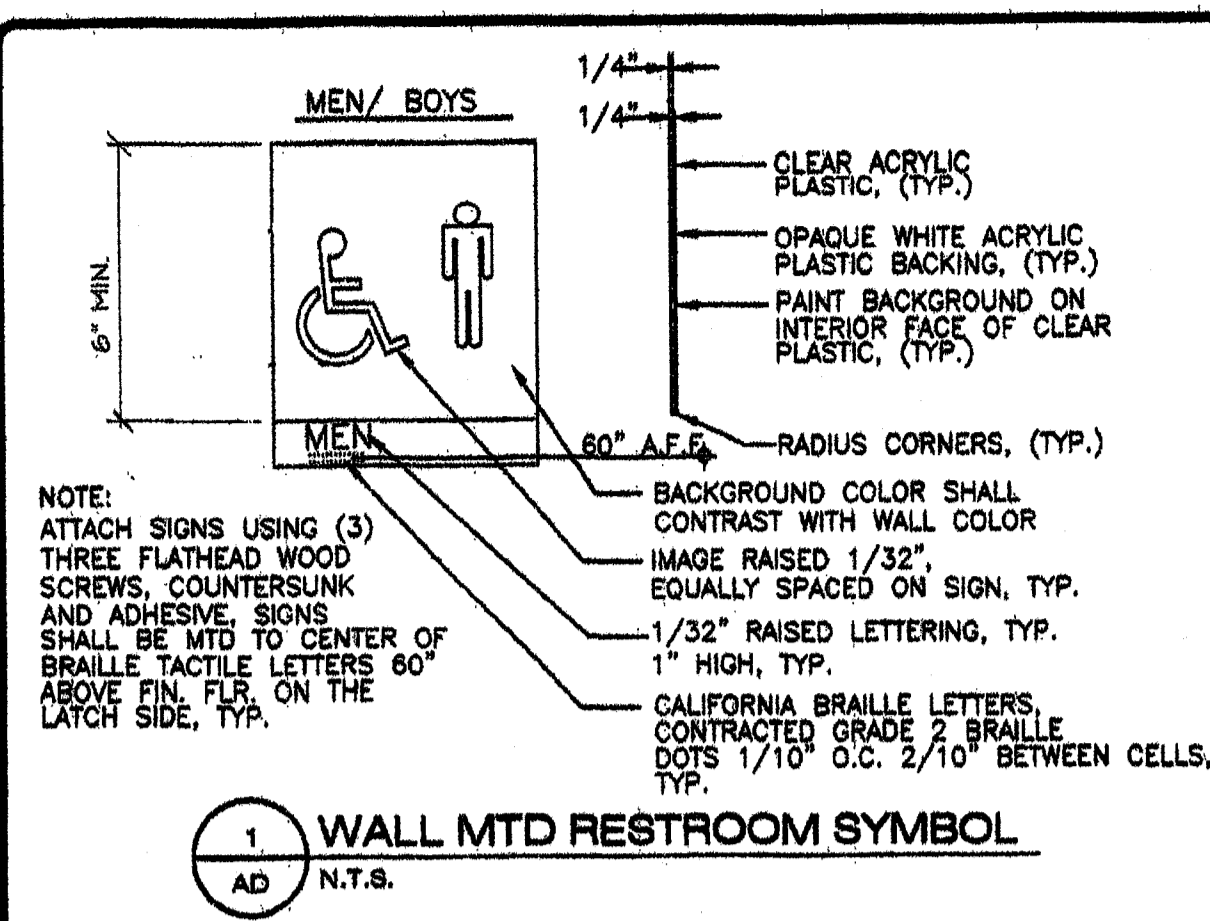
APPROVALS:



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111612
AC 17 FILE 22 SS GR
DATE 1/12/11

PROJECT No.
A5A

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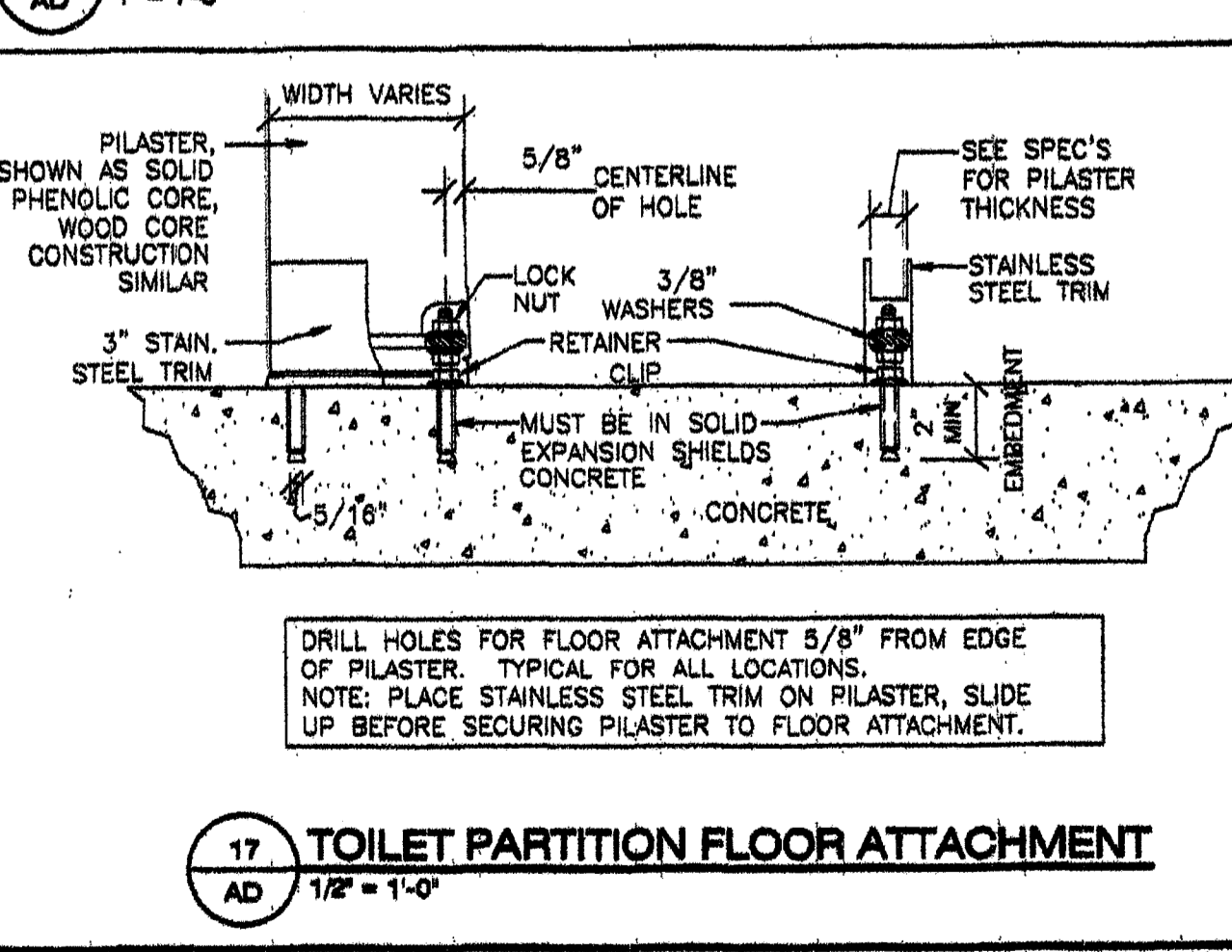
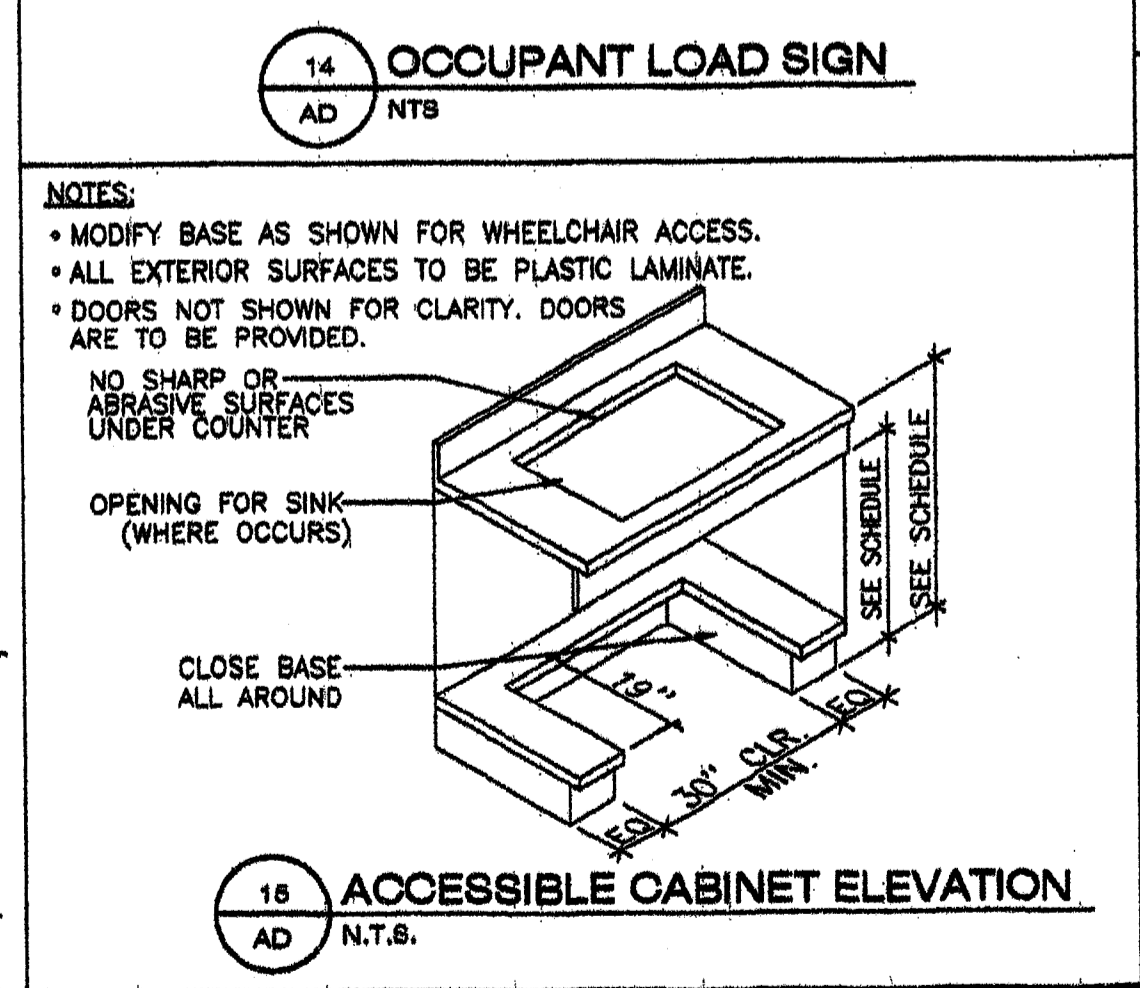
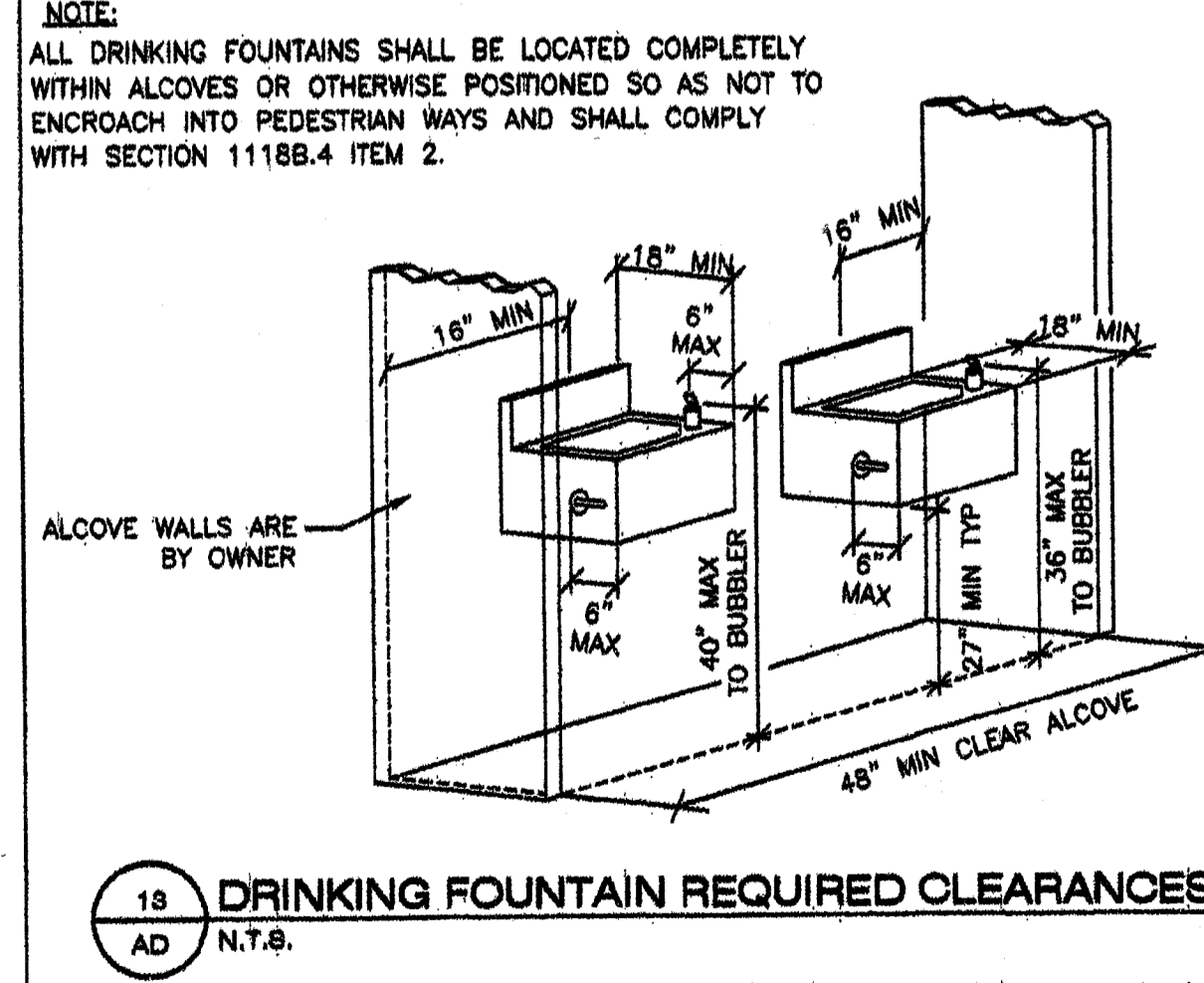
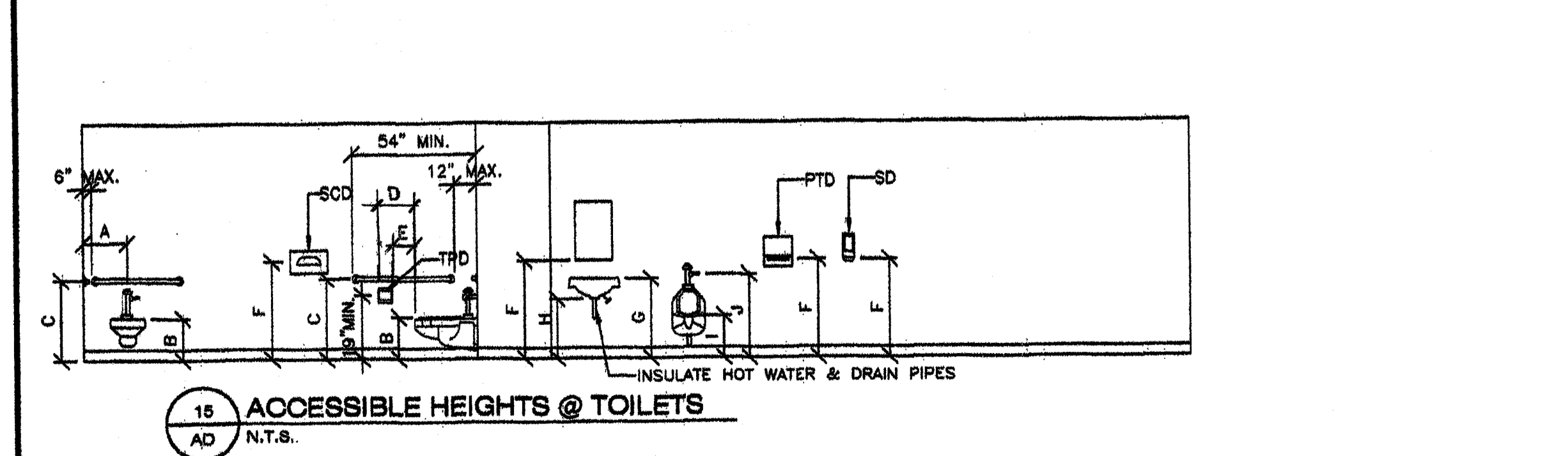
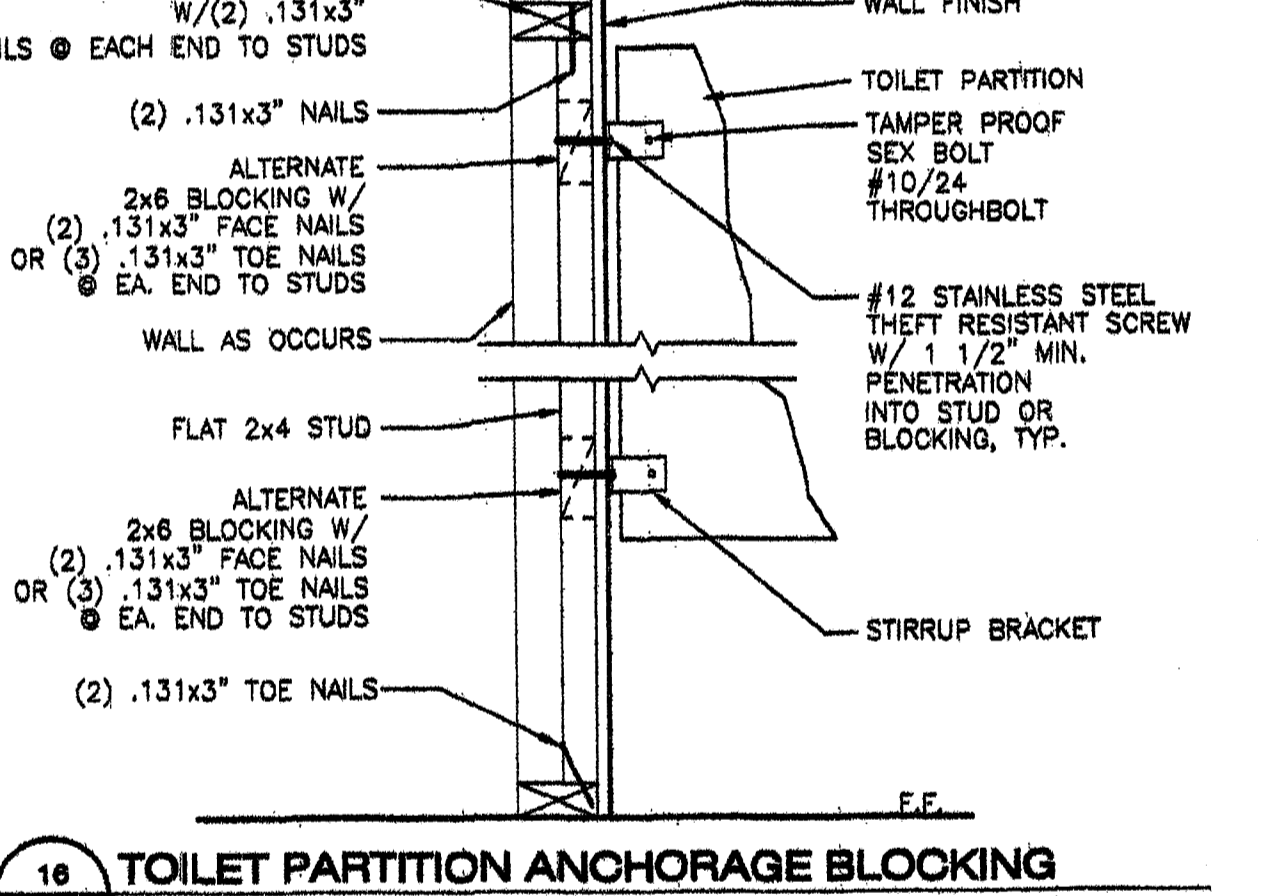
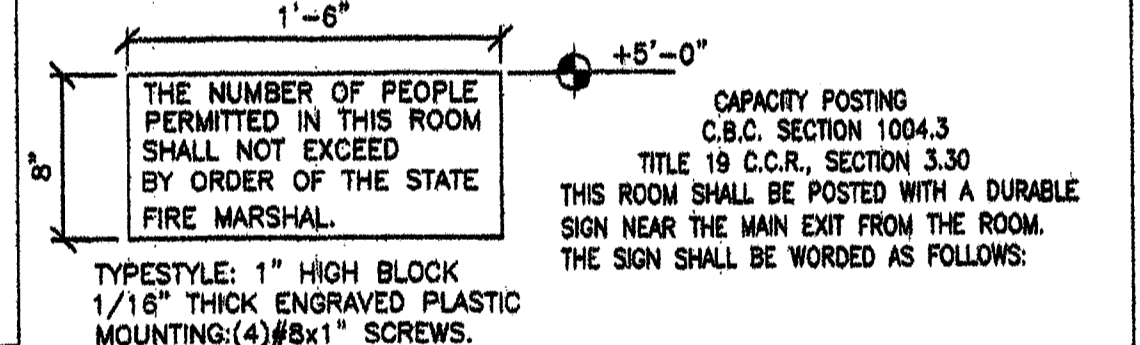
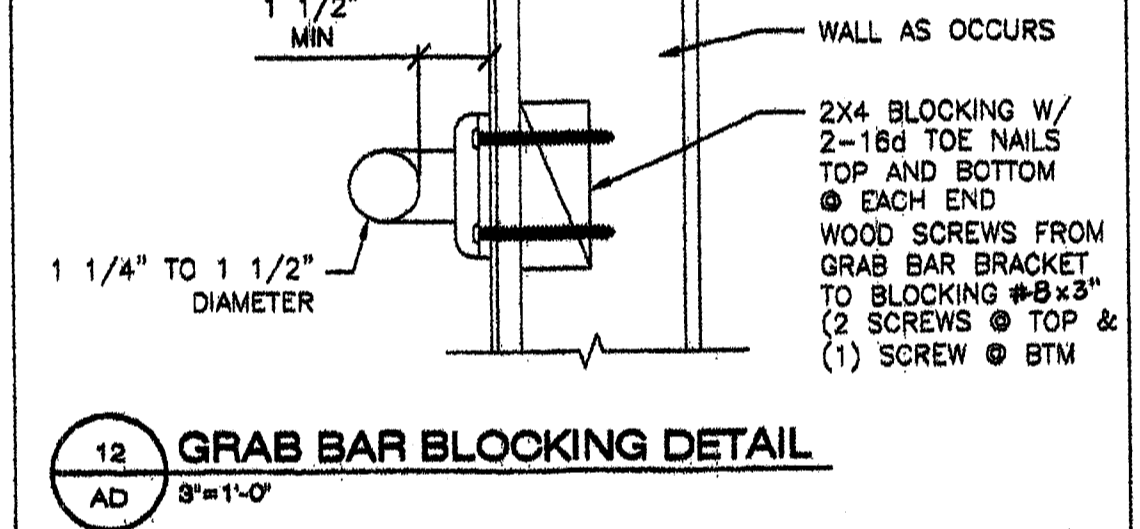
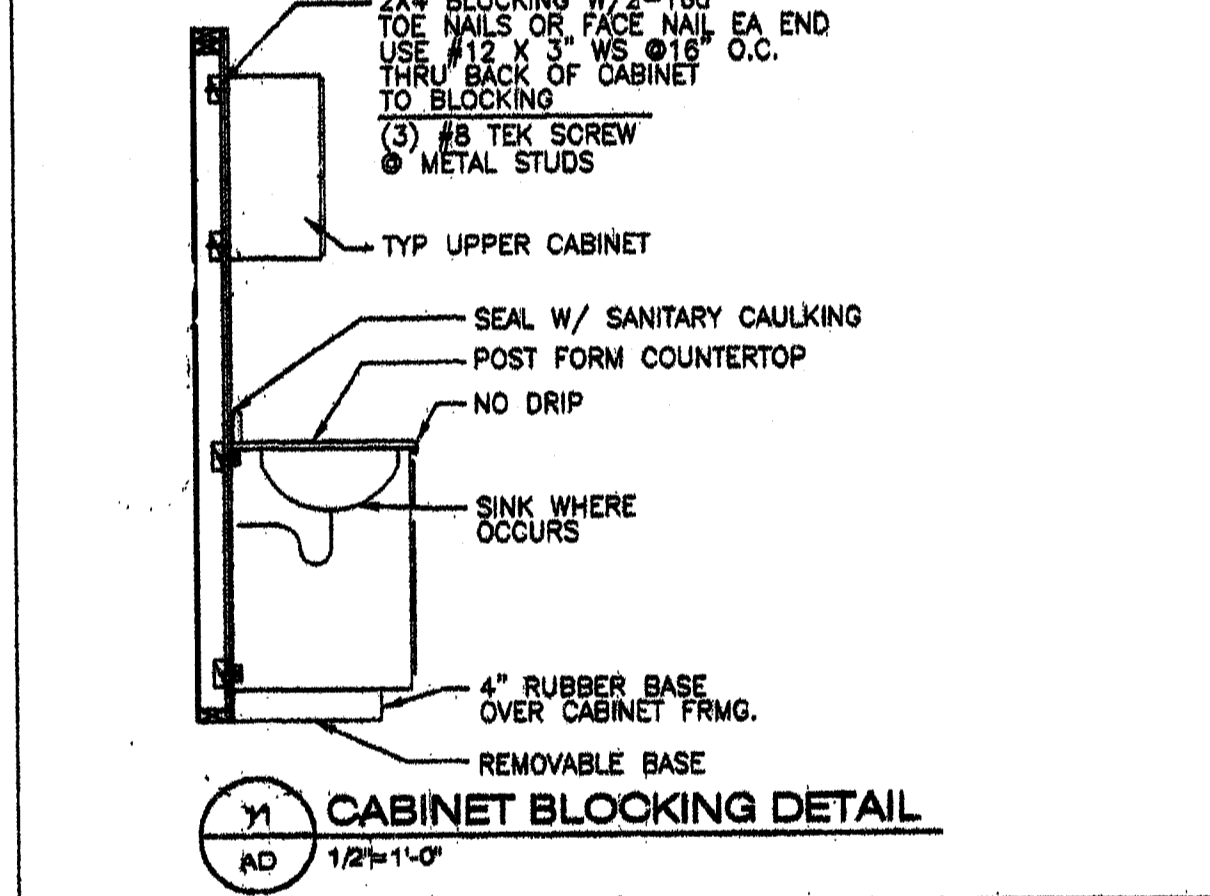


DIMENSIONS FOR ACCESSIBILITY IN TOILET FACILITIES				
FIXTURE TYPE	ADULT (AGE 12 AND OVER) DIMENSION	ELEMENTARY DIMENSION	KINDERGARTEN & PRE-SCHOOL DIMENSION	REMARKS
A TOILET CENTERLINE FROM WALL	18"	15"	12"	FLUSH VALVE TO WIDE SIDE OF STALL TYP
B TOILET SEAT HEIGHT (TO TOP OF SEAT)	17"-19"	15"	10"-12"	
C GRAB BAR HEIGHT	33"	27"	20"-22" ABOVE SEAT	38" GRAB BAR @ REAR OF TOILET (250 LB CAPACITY TYP) (ALLOWED @ 38" A.F.F. @ TANK TYPE TOILET) 42" GRAB BAR @ SIDE OF TOILET
D TOILET PAPER DISPENSER IN FRONT OF TOILET (TPD)	12" MAX.	6" MAX.	6" MAX. **	12" IN FRONT OF TOILET ROLL PAPER HOLDER WITHOUT STOPS
E NAPKIN DISPOSAL IN FRONT OF TOILET (SND)	12" MAX.	12" MAX.	N/A	24" IN FRONT OF TOILET (BY OWNER)
F DISPENSER OR MIRROR HEIGHT	40" MAX.	36" MAX.	32" MAX.	
G LAVATORY/SINK TOP HEIGHT	34" MAX.	29" MAX.	24" MAX.	WRAP DRAIN WATER IF HOT WATER OCCURS
H LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	19" MIN.	
I URINAL LIP HEIGHT	17" MAX.	15" MAX.	13" MAX.	
J URINAL FLUSH HANDLE HEIGHT	44" MAX.	37" MAX.	32" MAX.	
K DRINKING FOUNTAIN BUBBLER HEIGHT	38" MAX.	32" MAX.	30" MAX.	
L DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	24" MIN.	22" MIN.	
M RAMP/STAIR HANDRAIL HEIGHT	34"-38"	27"	22"	

** ABOVE SEAT
 ** DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARSHIP
 NOTE: 1. ALL ITEMS ON THIS SCHEDULE DO NOT NECESSARILY OCCUR IN THE PROJECT
 2. HEIGHTS NOTED ON INTERIOR ELEVATIONS SHALL GOVERN OVER THOSE SHOWN HERE.

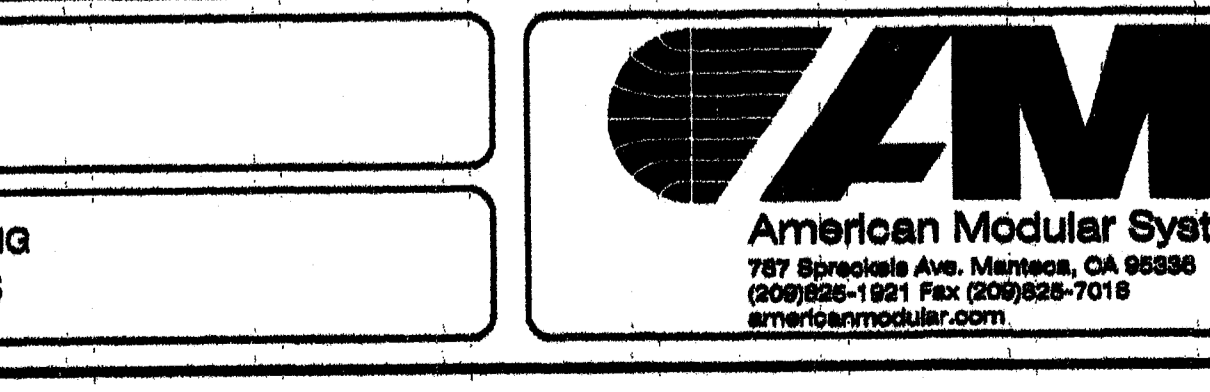
SCD = SEAT COVER DISPENSER TPD = TOILET PAPER DISPENSER
 PTD = PAPER TOWEL DISPENSER SND = SANITARY NAPKIN DISPOSAL (WHERE APPLICABLE)
 SD = SOAP DISPENSER SD = SOAP DISPENSER (ALL TOILET ACCESSORIES ARE N.I.C.)

THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING AND CONSTRUCTION



REVISIONS		
NO	DATE	DESCRIPTION

DATE: 2/24/09
 SCALE: NOTED
 DRAWN BY: DM
 SERIAL NO.:
 CUSTOMER:
 12X40' RELOCATABLE BUILDING ACCESSIBLE DETAILS



APPROVALS:
 PROJECT No. AD

REGISTRATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 02 111612
 DATE: 1/11/11

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A GENERAL REQUIREMENTS

- 1. GENERAL
A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.
B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.
C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS 2007 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.
2. SCOPE OF WORK
A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS. ALL REQUIREMENTS OF TITLES 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT. ADDENDUMS SHALL BE SIGNED BY THE ARCHITECT & APPROVED BY D.S.A.
5. CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
6. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
7. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
8. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
9. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
10. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
11. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE.
12. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
13. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
14. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

SECTION 2 FOUNDATION

- 1. ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF FOR WOOD FOUNDATIONS, 1500 P.S.F. FOR CON CRETE FOUNDATIONS EMBEDDED 12" MIN BELOW GRADE.
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL, APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.
NOTE: THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.

WORK NOT INCLUDED:

- A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TELEPHONE SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE
THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 5 STEEL

- A. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
B. WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24, PART 2, CCR, SECTION 1704A.3.1 WELDING ELECTRODE SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER'S CERTIFICATIONS PER SECTION 2211A2.3 C.B.C. 2007.
1. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36
2. PIPE COLUMNS SHALL CONFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
3. STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A579 GRADE 50 FOR GAUGE TUBING-TYP. U.N.O.
4. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.
C. ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
D. NAILS, BOLTS, SCREWS AND NUTS ETC.- FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
1. BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILOT HOLE AND REAM MIN. 1/16" TO BOLT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.
E. HANDRAILS - FABRICATED, AS DETAILED, WELDS GROUND SMOOTH.
F. SHOP PAINT
1. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
2. NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.
G. TESTS
1. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER 7-24 PART 2, CCR SECTION 2212A.1

SECTION 6A CARPENTRY

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY
2. MATERIALS
LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER, 3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR W.C.L.I.B. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-95 FOR SOFTWOOD PLYWOOD, OF AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.
A. JOISTS, PLATES, STUDS-DOUGLAS FIR S4S #2 U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
B. H.F. HEADERS, POSTS AND TIMBERS-DOUGLAS FIR S4S #1
C. BLOCKING - DOUG FIR #3, OR HEM FIR #3, OR STD. & BET.
D. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.11.2 EACH PIECE SHALL BEAR AWPB STAMP. AWPB STANDARD U1 & T1 GROUND CONTACT, D.F.#2 ABOVE GROUND.
E. MOISTURE BARRIER - KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC 2307 17-1 FOR KRAFT, 32-1 FOR FELT. STUDS - S4S DOUG FIR #2, OR #2 HEM FIR, MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
F. FASTENERS - NAILS SHALL BE CORROSION RESISTANT PER C.B.C. 2304.9.1.1 COMMON NAILS FOR EXT. SIDING & FNDN. ONLY. BUILDING TRIM - 2X RESAWN SELECT D.F., H.F., OR CEDAR DOOR/WINDOW TRIM - 1X4 RESAWN D.F., H.F., OR CEDAR
K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 717
M. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.
O. FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".
3. WORKMANSHIP
A. FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
B. NAILING - IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE 2304.9.1.
C. EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.

- E. MACHINE APPLIED NAILING:
USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
F. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE

SECTION 7B SHEET METAL

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS
A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
B. SOLDER - OF STAND, GRADE "A" OF EQUAL PARTS ARD BRAND LEAD AND TIN ASTM B32.
C. FLUX - ZINC SATURATED MURIATIC ACID.
D. GUTTERS: 26 GA. G-90 GALV. STEEL. DOWNSPOUTS: 2"x3" CONVULATED 30 GA. G-90 GALV. STEEL. GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL. GUTTER CLIPS: 18 GA. G-90 GALV. STEEL.
3. WORKMANSHIP
SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7C METAL ROOFING

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 85 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.
2. MATERIALS
A. ROOFING - 1 1/4" INCH STANDING SEAM MIN 26-GAUGE G-90 GALV. INTERLOCKING (UNPENETRATED) SHEET STL PANELS (G90).
B. ALTERNATE: ROOFING - 3 INCH STANDING SEAM MIN 20-GAUGE G-90 GALV. INTERLOCKING (UNPENETRATED) SHEET STL PANELS (G90).
C. ROOFING: CLASS B FIRE RATING

SECTION 7J SEALANT

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS
VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOTEEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.
3. WORKMANSHIP
SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 8 CONCRETE

- 1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-05
2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:
SLABS ON GRADE & FOUNDATIONS 2500 PSI (150 PCF) OR (150 PCF) CONCRETE OVER METAL DECK
3. REINFORCING SHALL CONFORM TO ASTM A615--GRADE 40 UN.
4. CONCRETE COVERAGE SHALL BE AS FOLLOWS, UN ON DRAWINGS: CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS) "....." CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS "....." SLABS (ON GROUND) "....." POSITION IN CENTER OF SLAB
5. ALL BARS SHALL HAVE A CLASS B MINIMUM SPACING LAP UN.
6. NOTIFY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

SECTION 8A EXTERIOR PLASTER

- LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER. PER 2507.1
LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN TABLE 2507.2 AND CHAPTER 35 AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF CHAPTER 7. PER 2507.2
GYPSUM BOARD AND GYPSUM PLASTER CONSTRUCTION SHALL BE OF THE MATERIALS LISTED IN TABLES 2506.2 AND 2507.2. THESE MATERIALS SHALL BE ASSEMBLED AND INSTALLED IN COMPLIANCE WITH THE APPROPRIATE STANDARDS LISTED IN TABLES 2506.1 AND 2511.1, AND CHAPTER 35 PER 2506.1
1. GENERAL NOTES
PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5

- A. THE FIRST COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOULIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT.
B. THE SECOND COAT SHALL BE BROUGHT OUT TO PROPER THICKNESS, RODDED AND FLOATED SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND FOR THE FINISH COAT. THE SECOND COAT SHALL HAVE NO VARIATION GREATER TO THAN 1/4 INCH (6.4 mm) IN ANY DIRECTION UNDER 5-FOOT STRAIGHT EDGE.
C. THE FINISH COATS SHALL BE APPLIED OVER BASE COATS THAT HAVE BEEN IN PLACE FOR THE TIME PERIODS SET FORTH IN ASTM C 926 THE THIRD OR FINISH COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO BOND TO AND TO COVER THE BROWN COAT AND SHALL BE OF SUFFICIENT THICKNESS TO CONCEAL THE BROWN COAT.

SECTION 8B HOLLOW METAL DOORS AND FRAMES

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1 3/4" THICK PER CS242 MIN. REINFORCE FOR HARDWARE--BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
B. FRAMES - 16 GA COLD ROLLED, 2" FACES, CS242 MIN. J. ANCHORS PER JAMB & ADJUSTABLE FLOOR ANCHOR EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
3. WORKMANSHIP
ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION, DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 9E PAINTING

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS
A. FOR EXTERIOR WOOD:
DUNN EDWARDS KELLY SHERWIN SINCLAIR
MOORE WILLIAMS
PRIMER 42-9M 1240 Y24W20 289-N
FINISH OD-60-XX 1240-XXX B54WZ102 GE2-NXX
B. FOR INTERIOR TRIM
DUNN KELLY SHERWIN SINCLAIR
REF. BRAND EDWARDS MOORE WILLIAMS
FINISH W450-XX 1650-XXX A26W11 40XX
C. FOR METAL
DUNN KELLY SHERWIN SINCLAIR
REF. BRAND EDWARDS MOORE WILLIAMS
PRIMER 43-4 1710 B50NZ6 15N
FINISH 10-XX 1700-XXX B54WZ102 GE2-NXX
3. WORKMANSHIP
ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.
A. EXTERIOR - WOOD SIDING, TRIM AND SKIRTING FLAT OR SEMI-GLOSS LATEX - APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
B. INTERIOR TRIM - TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
C. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYL FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
E. RAMP - ONE COAT OF FERROX NON-SLIP (0.8 MIN. C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PARTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST FOR MAINTENANCE PAINTS 8010-916-98A DATED JULY 1989, OR EQUAL.
F. SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F SITE ASSEMBLY

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ASSEMBLY OF ELEMENTS
A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 15A AIR CONDITIONING

- 1. SCOPE OF WORK (SEE SHEET #3 FOR HVAC SPEC. AND NOTES)
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRICT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT
SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
3. WORKMANSHIP
UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 16A ELECTRICAL

- 1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.
A. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYTEM AND NOTIFICATION PER NFPA 72
2. MATERIALS
ALL NEW CYPALING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION
ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX- GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKETS.
B. PANELBOARDS - FLUSH MOUNTED.
C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS. TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES, MINIMUM SIZE- #14.
D. RECEPTACLES - AS NOTED, +18" A.F.F. MIN.
E. CLOCK RECEPTACLE - AS NOTED.
F. SWITCHES - AS NOTED, +48" A.F.F. MAX.
G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.
3. WORKMANSHIP
MATERIALS AND EQUIPMENT INSTALLED IN A SECURE, NEAT WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANELBOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BLDG TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.), (FLEXIBLE CONDUIT 5-BEND SEALTITE)

INSPECTION

- INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS.
1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE WHEN OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY OR FROM THE STORAGE FACILITY TO THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM SSS-6). A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

COORDINATION OF WORK

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF AY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

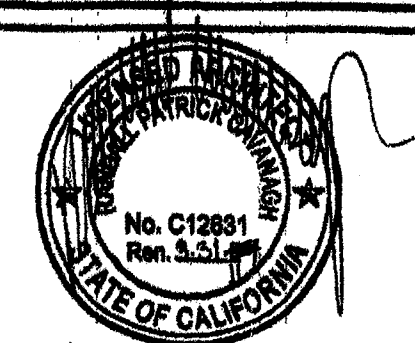
Table with 3 columns: NO, DATE, DESCRIPTION. Includes a section for REVISIONS.

DATE: 2/24/09
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
12'X40' RELOCATABLE BUILDING
GENERAL NOTES



APPROVALS:
[Signature area]



REGISTRATION STAMP
No. C12891
02-111612
DATE: 1/11/11

PROJECT No.
N1

MATERIALS AND WORKMANSHIP

ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE ARCHITECT THAT SUCH IS THE CASE.

CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS:

UP TO (12) APPROXIMATELY 12' x 40' MODULES DESIGNED SO THAT TWO MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"x1 -1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

1. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
2. DESIGN WIND LOAD / EXPOSURE
3. DESIGN ROOF LIVE LOAD
4. DESIGN FLOOR LIVE LOAD
5. D.S.A. APPLICATION NUMBER.

2-TAGS PER MODULE ONE ON EXTERIOR AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 ga. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FLET MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45#/c. ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2-1/8" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4 X 8 PANELS INSTALLED SIDE BY SIDE TO MAKE A 4 X 16 PANEL, CENTERED ON THE LONG WALLS. REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

NOTE:

WALL FINISH MATERIAL	PIPE INSULATION
FLAME SPREAD MAX = 200	FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450	SMOKE DENSITY MAX = 450
BUILDING INSULATION	DUCT INSULATION
FLAME SPREAD MAX = 25	FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450	SMOKE DENSITY MAX = 50

INTERIOR

1. FLOOR: CARPETS - CLASSROOM SHALL BE CARPETED AS INDICATED ON FLOOR PLAN WITH DIRECT GLUE DOWN TYPE PER STATE OF CALIFORNIA SPECIFICATION 7220-XXX-01, GROUP 1, TYPE A, CLASS 26. COLOR WILL BE SELECTED BY ARCHITECT AFTER AWARD OF BID. THE CARPET DENSITY SHALL BE 4600 MINIMUM. PILE YARN SHALL BE BRANDED NYLON. NO CROSS SEAMS SHALL BE ALLOWED. PILE HEIGHT 1/2" MAX
2. BASE: RESILIENT COVE BASE - 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 COLOR AS MANUFACTURED BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD(U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR PLYWOOD SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS III FLAME SPREAD RATING. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.
4. CEILING: SUSPEND T-BAR SYSTEM, SEE SHEET 3 FOR DETAILS ETC. MATERIALS AND INSTALLATION PER CCR 2501A.5 AND IR #M-3 INCLUSIVE AS APPLICABLE TO CLASSROOMS.

DOORS & WINDOWS

EXTERIOR DOORS: METAL DOORS - 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MIN AND REINFORCED WITH 20 GA. MIN. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR.

EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LIGHTS OF GLASS AND THE AIR SPACE. GLAZING MATERIAL SHALL BE:

EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.

INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED.

MINIMUM AIR SPACE SHALL BE 1/4".

SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OF SILICONE SECONDARY SEAL.

CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.

HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR PLYWOOD SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY. SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANSI), COMMERCIAL GRADE.

HARDWARE

1. EXTERIOR DOOR
 - A) HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR EACH DOOR WITH SET SCREW IN BARREL AND BALL BEARING DESIGN, OR APPROVED EQUAL.
 - B) EXTERIOR LOCKSET: SCHLAGE ND70PD CORBIN OR YALE OR EQUIVALENT. ALUM. FINISH. OR PANIC BARS/PULL HANDLE PANIC BAR TYPE VON DUPRIN 22L (PULL ON EXT.) OR CORBIN OR YALE OR EQUIVALENT. ALUM. FINISH. PANIC BARS ARE ONLY REQUIRED WHERE THE OCCUPANT LOAD IS 50 OR MORE.
 - C) CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. MAXIMUM 5 LBS FOR EXTERIOR AND INTERIOR DOORS. THE MAXIMUM EFFORT FOR FIRE DOORS MAY BE INCREASED TO THE MAXIMUM ALLOWED BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS. THE SWEEP PERIOD FROM AN OPEN POSITION OF 70 DEGREES SHALL BE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
 - D) WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007, AT DOOR JAMBS AND HEAD OR EQUAL.
 - E) THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
 - F) DOORSTOP: QUALITY #44, OR EQUAL.
- D) INTERIOR LOCKSET: SCHLAGE LEVER HANDLE LOCKSET, AS FOLLOWS:

STUDENT TOILETS	S10A PASSAGE LATCH OR EQUAL
OFFICES	S70D CLASSROOM LOCKSET OR EQUAL
CUSTODIAL	S80A LOCKSET OR EQUAL
PUBLIC TOILETS	S40A PRIVACY LATCHSET OR EQUAL

FIRE EXTINGUISHER

1. EACH PORTABLE CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. TO BE MOUNTED ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE MOUNTING BRACKET AND THE BOTTOM OF FE MOUNTED 27" AFF. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

2007 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, CCR) SEC. 1103B.1 BUILDING ACCESSIBILITY, GENERAL.

THE 2007 CBC REQUIRES THAT BUILDINGS EXCEEDING 10,000 SQUARE FEET ON ANY FLOOR MUST HAVE AN ACCESSIBLE MEANS OF VERTICAL ACCESS VIA RAMP, ELEVATOR, OR LIFT WITHIN 200 FEET OF TRAVEL OF EACH STAIR AND EACH STAIR AND EACH ESCALATOR. TABLE 1115B-1 SUGGESTED DIMENSIONS FOR CHILDREN'S USE.

THE 2007 CBC REQUIRES A 27" MINIMUM DIMENSION FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK.

SECTION 1115B.3.1 ACCESSIBLE WATER CLOSET COMPARTMENT. THE 2007 CBC REQUIRES AN ACCESSIBLE TOILET STALL TO HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.

SECTION 1115B.4.4.4. WATER CONTROLS. THE 2007 CBC REQUIRES THAT THE FORCE TO OPERATE A WATER CONTROL (VALVE) FOR AN ACCESSIBLE SHOWER SHALL NOT EXCEED 5LBS. MAXIMUM FORCE (PULL).

SECTION 1117B.5 SIGNS AND IDENTIFICATION (ALSO REFER TO SECTIONS 1115B.6, 1116B, 1007.6.5 1007.7, 1008.1.8.6, 1011.3, 1020.1.5 & 1020.1.6.1-5

SECTION 1117B.5 SIGNS AND IDENTIFICATION (ALSO REFER TO SECTIONS 1115B.6, 1116B, 1007.6.5 1007.7, 1008.1.8.6, 1011.3, 1020.1.5 & 1020.1.6.1-5

*ALL GROUND FLOOR EXIT DOOR SHALL HAVE TACTILE EXIT SIGNAGE.

*AT STAIRS, EACH FLOOR SHALL RECEIVE TACTILE "STAIR LEVEL" SIGNAGE IN ADDITION TO SPECIAL TACTILE AT THE EXIT DISCHARGE LEVEL.

*EACH EXIT DOOR THAT LEADS TO A GRADE LEVEL EXIT BY MEANS OF A STAIRWAY SHALL HAVE TACTILE EXIT SIGNAGE.

*EACH EXIT ACCESS DOOR TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN SHALL BE IDENTIFIED BY TACTILE EXIT SIGNAGE.

SECTION 1129B ACCESSIBLE PARKING REQUIRED.

THE 2007 CBC REQUIRES THE WORDS "NO PARKING", IN 12" HEIGHT WHITE LETTERS, TO BE PAINTED ON THE PAVEMENT WITHIN ALL PARKING SPACE ACCESS AISLES. VAN PARKING ACCESS AISLES SHALL BE PLACED ON THE PASSENGER SIDE OF THE VEHICLE. RAMPS MAY NOT ENCRDACH INTO ANY REQUIRED ACCESS AISLE. PARKING SPACE ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.*

*EXISTING SITES: AT EXISTING SITES, ANY RAMP WHICH EXCEEDS A 2% SLOPE ACCESS AISLES FOR ACCESSIBLE PARKING SPACES PER CBCS SECTION 1129B, MAY REQUIRED REMOVAL AND REDESIGN PER THE PATH OF TRAVEL (POT) PROVISIONS OF CBCS SECTION 1134B, IN ORDER TO APPROVE THE BUILDING PLACEMENT.

SECTION 1133B.2.5 CLOSER EFFORT TO OPERATE DOORS.

THE 2007 CBC REQUIRES THAT THE EFFORT TO OPEN AN EXTERIOR DOOR SHALL NOT EXCEED 5 POUNDS (PULL).

THE 2007 CBC REQUIRES THAT THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 3 SECONDS MAXIMUM, BASED ON AN OPEN DOOR POSITION OF 70 DEGREES (FROM CLOSED), TO A DOOR POSITION OF 3" FROM THE LATCH.

SECTIONS 1133B.2.4.5 & 1133B.2.5.3 RECESSED DOORS.

THE 2007 CBC REQUIRES THAT DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-33 (A).

SECTION 1133B.4.2.4 HANDRAIL ORIENTATION.

THE 2007 CBC SPECIFIES THAT AT LEAST ONE HANDRAIL SHALL BE PARALLEL TO THE DIRECTION OF THE STAIR RUN, AND PERPENDICULAR TO THE EDGE OF THE STAIR NOSING.

SECTION 1133B.5.2 RAMP WIDTH:

MINIMUM 48" CLEAR AT OCCUPANT LOAD 300 OR LESS, 60" CLEAR AT OCCUPANT LOAD MORE THAN 300.

RADIUS MINIMUM OF 0.125"

THE 2007 CBC REQUIRES THAT SIGN EDGES LESS THAN 80" ABOVE THE FINISHED FLOOR MUST CONTAIN ROUNDED OR EASED RADIUS MINIMUM OF 0.125"

THE PROJECT PLANS OR SPECIFICATIONS SHALL INDICATE THE REQUIREMENT THAT THE MANUFACTURER SHALL PROVIDE A WRITTEN FIVE-YEAR PRODUCT WARRANTY, IN ACCORDANCE WITH THE BULLETIN.

1. ALL GALVANIZED STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE 2001 AISI/COS/ANSI.
2. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A 653
3. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH REQUIREMENTS OF ASTM A 653. PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED AND ORDERED TO BE IN CONFORMANCE WITH ASTM C-955 OTHERWISE, G-40 OR EQUIVALENT COATING WILL BE PROVIDED.

1. SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI " SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION."
2. METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3 "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."
3. ASTM REFERENCE NUMBERS: A) ASTM A653, STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY.
4. STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN CONFORMANCE WITH SDI STANDARDS.
5. METAL FLOOR DECK TO BE ASC STEEL DECK
 1. B-36, 18 GAUGE
 - 1 1/2" DEEP X 36" WIDE
 2. N-24, 18 GAUGE
 - 3" DEEP X 24" WIDE
6. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO ASTM A653, Fy=38 KSI WITH A GALVANIZED COATING, G-60 OR G-90.

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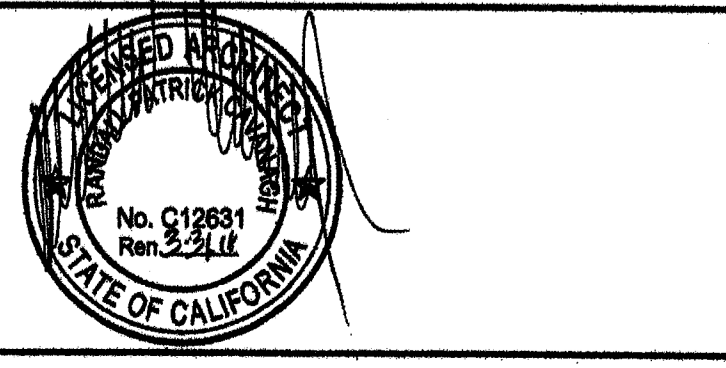
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CUSTOMER:

12'X40' RELOCATABLE BUILDINGS
GENERAL NOTES

American Modular Systems Inc.
787 Spreckels Ave. Manteca, CA 95336
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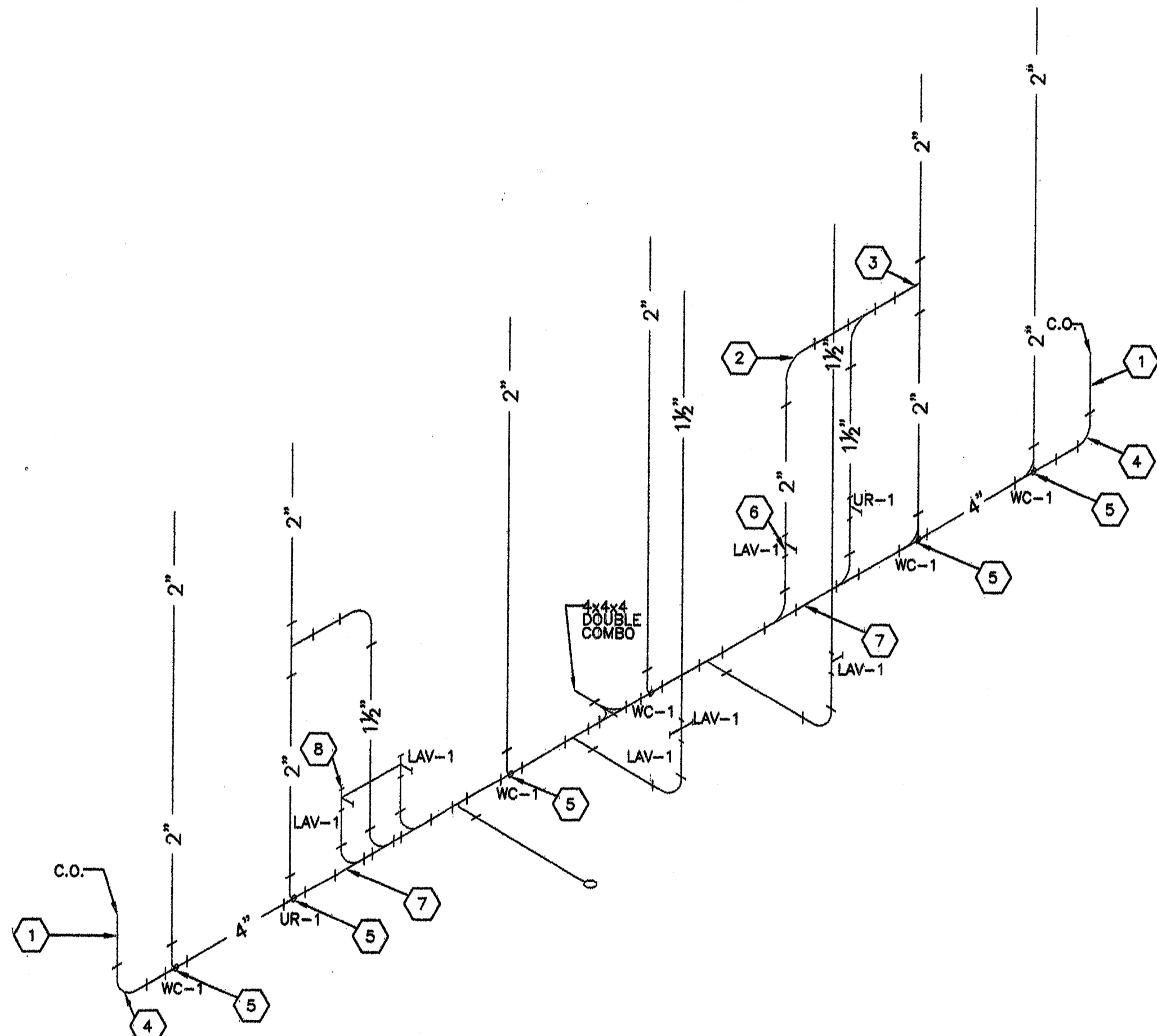
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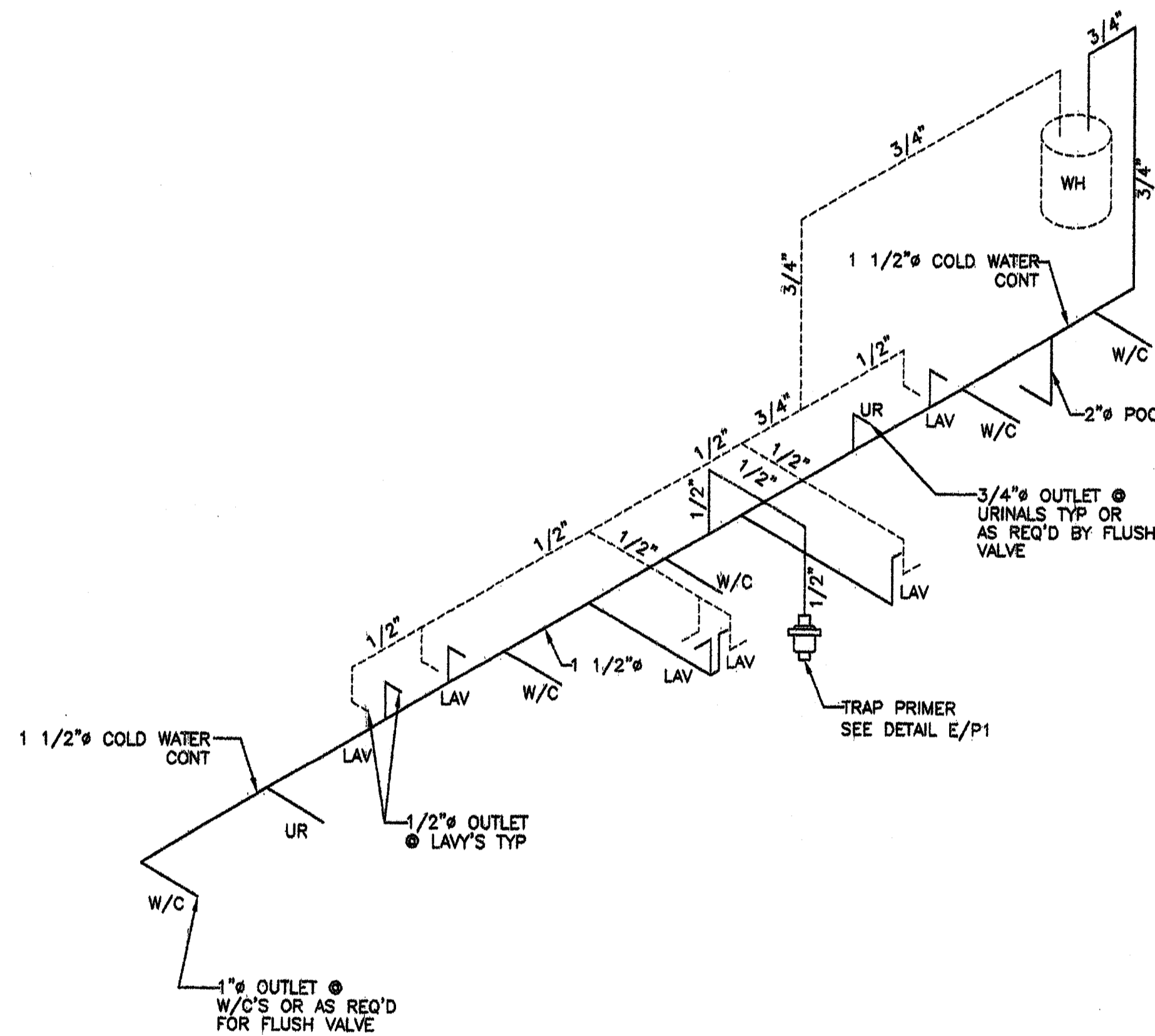
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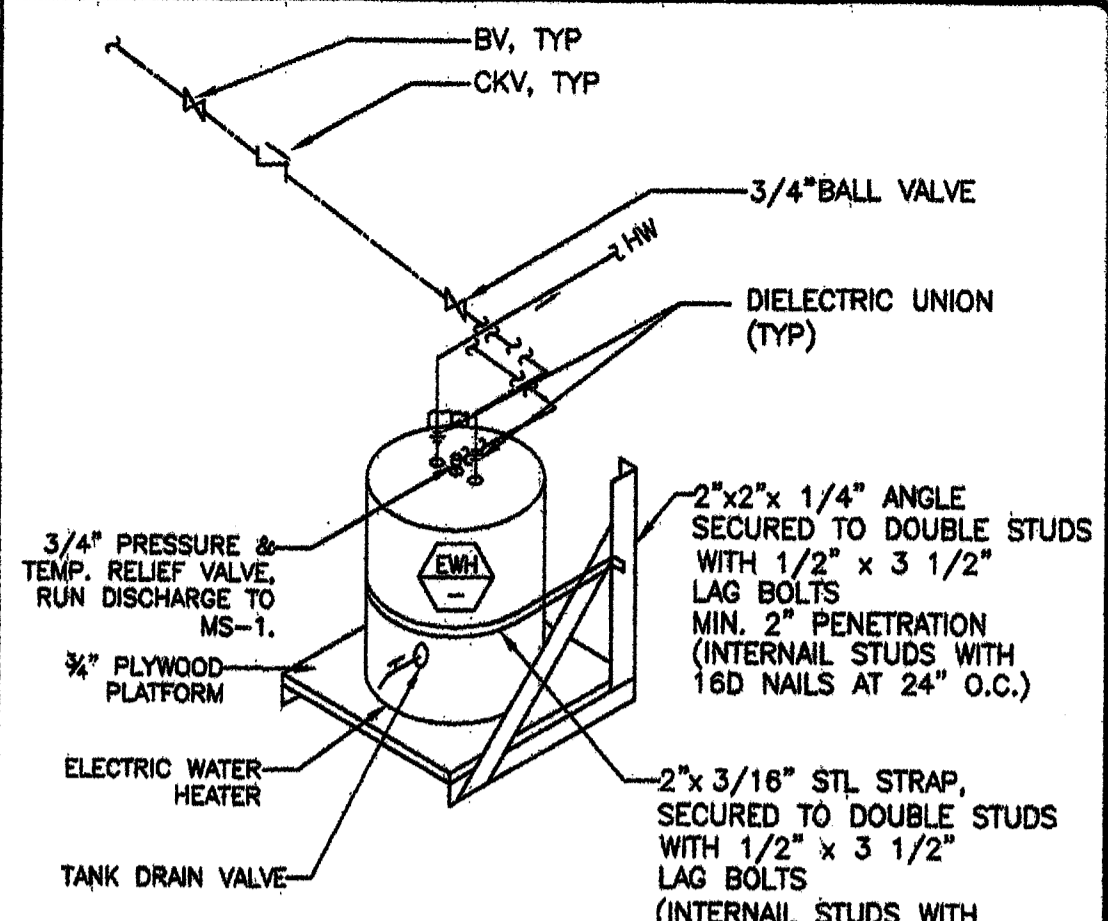
3C WASTE ISOMETRIC
P1 NO SCALE



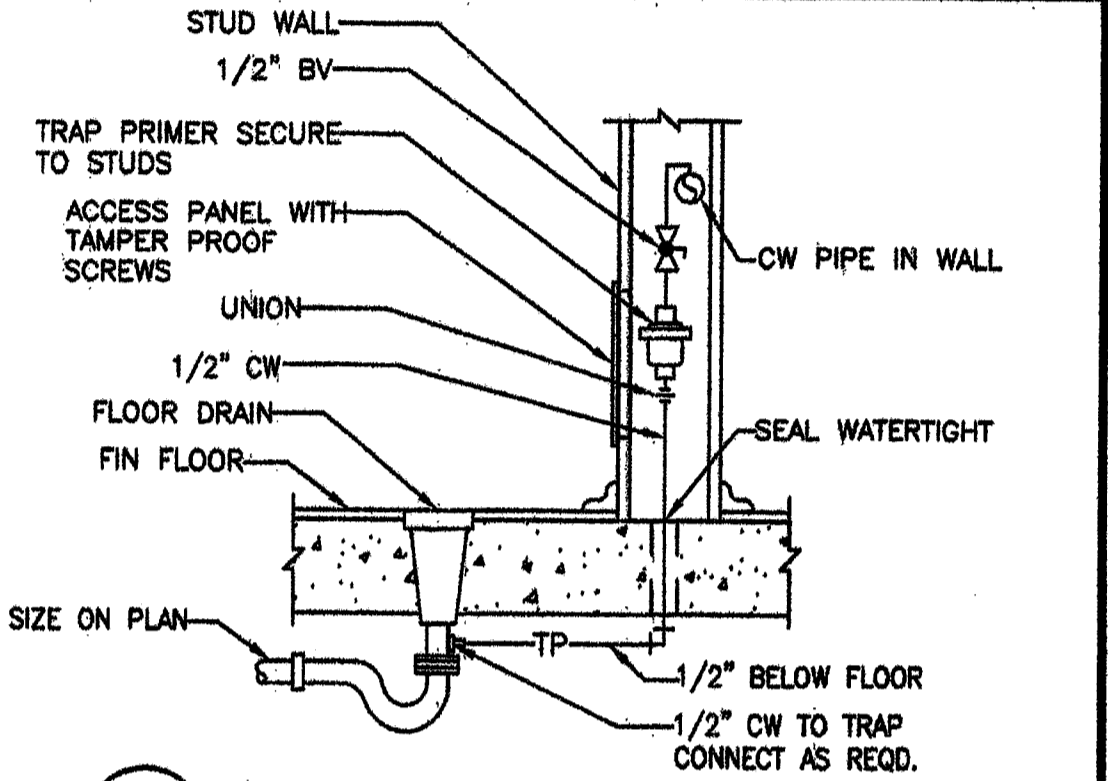
3B WATER SUPPLY ISOMETRIC
P1 NO SCALE

3A RESTROOM OPTION #3
P1 NO SCALE

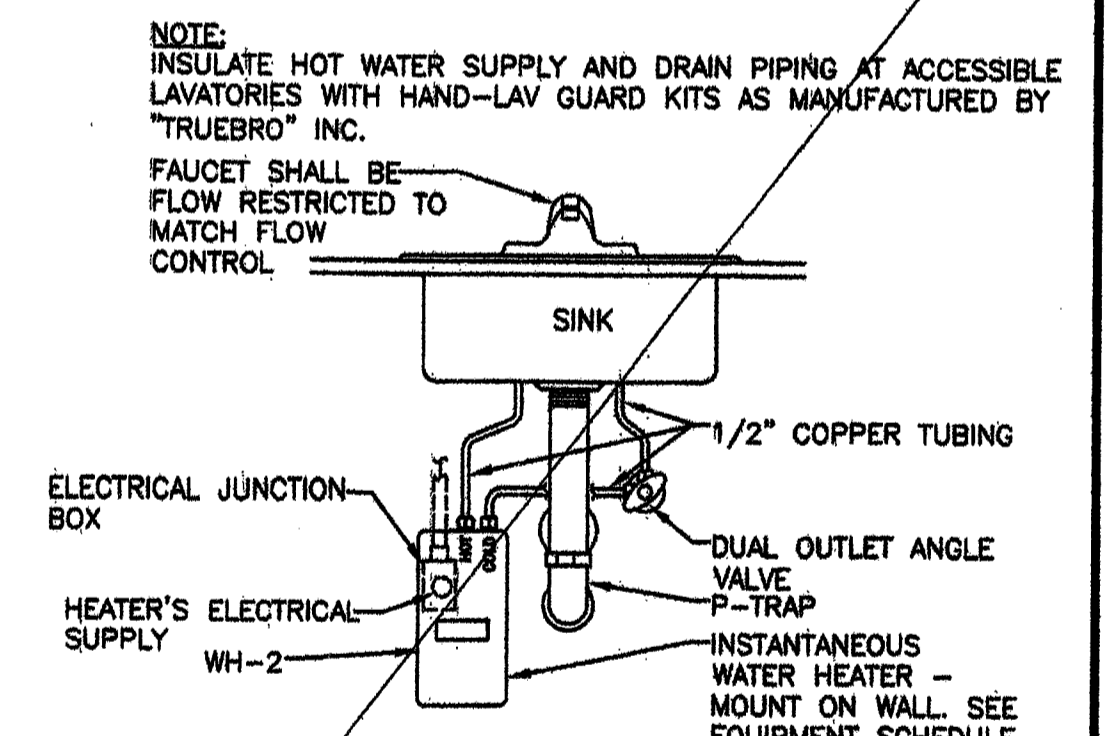
— COLD WATER
- - - - - HOT WATER



D WATER HEATER SUPPORT DETAIL
P1 N.T.S



E TRAP PRIMER DETAIL
P1 N.T.S



F INSTANT WATER HEATER DETAIL
P1 N.T.S

SHEET NOTES

- DWV PIPING SHALL BE ABS PLASTIC
- COLD WATER SUPPLY SHALL BE TYPE L COPPER
- DWV PIPING:
MIN SLOPE 1/4" PER FOOT
MAY SLOPE 4" CI @ 1/8" PER FOOT
VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3 FT. IN EVERY DIRECTION FROM ANY LOT LINE, ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF

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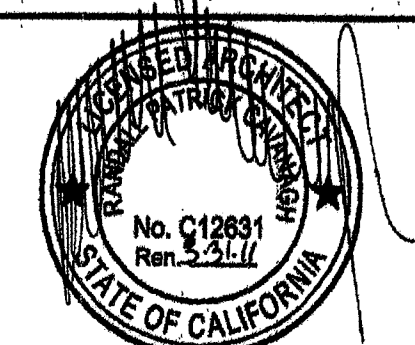
CUSTOMER:
McKINLEY SCHOOL
BAKERSFIELD SCHOOL DISTRICT

12 x 40 RELOCATABLE BUILDING
ISOMETRIC PLANS & DETAILS

AMS
American Modular Systems Inc.
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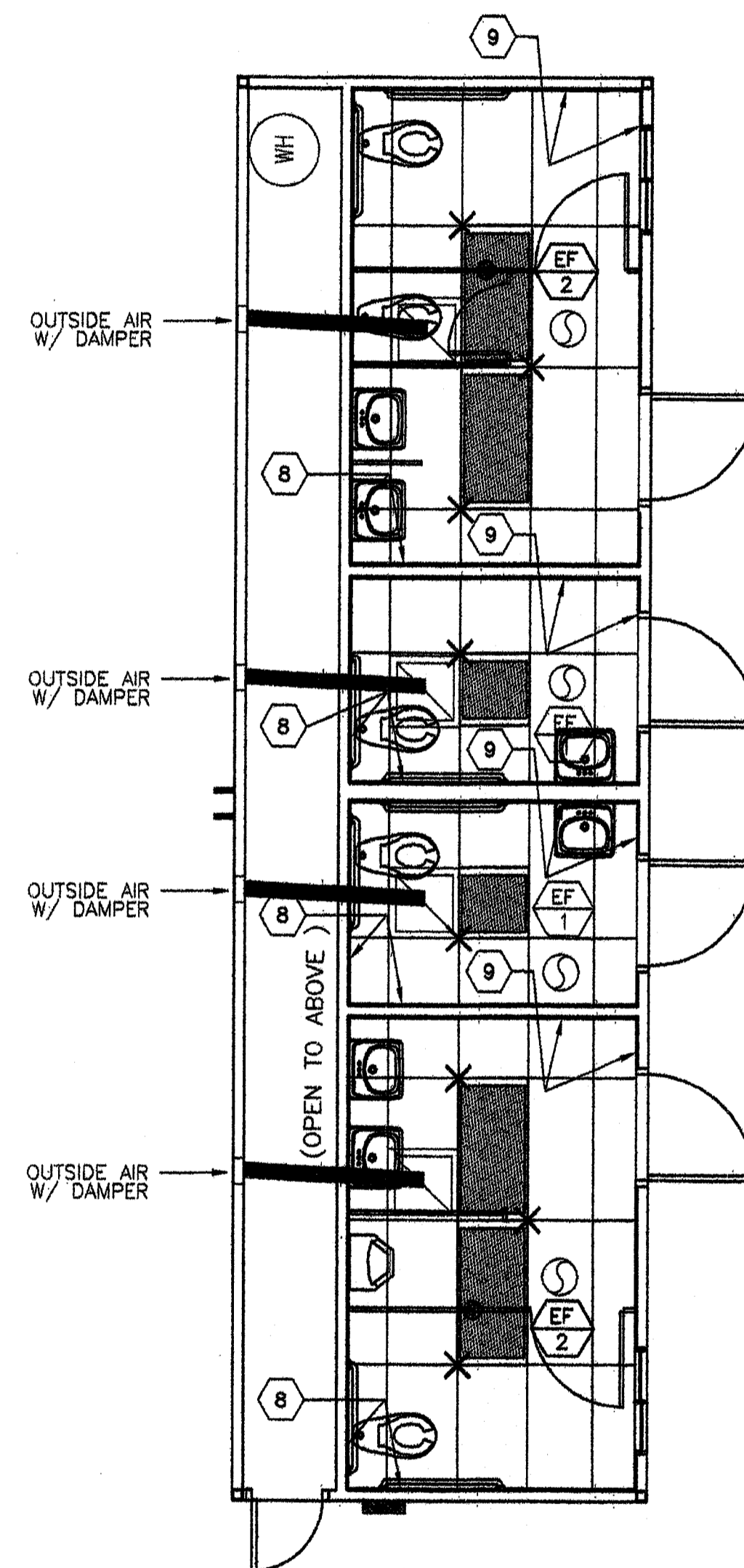
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EXHAUST FAN						
MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	
EF 1	EXHAUST FAN	110	1050	.10"	115-1Ø	NUTONE 672 CEILING MOUNTED 180W INPUT
EF 2	EXHAUST FAN	200	1050	.10"	115-1Ø	CEILING MOUNTED 180W INPUT

BUILDING PLUMBING STANDARDS:

- TOILETS SHALL BE KOHLER-KINGSTON #K-4330. FLUSH VALVES FOR TOILETS SHALL BE SLOAN-REGAL FLUSHOMETER #111. MOUNTING BRACKET BY J.R SMITH. SEATS SHALL BE BEMIS #1955C.
- TOILETS MAY BE ALSO BE AMERICAN STANDARD AFWALL #2257.103. MOUNTING BRACKET BY J.R. SMITH #0600. FLUSH VALVES FOR TOILETS SHALL BE SLOAN-REGAL FLUSHOMETER #111. SEATS SHALL BE BEMIS #1955C.
- LAVATORIES SHALL BE CAST IRON PORCELAIN FINISHED KOHLER-HUDSON #K-2861. STAFF LAVATORIES SHALL BE CHICAGO 3300-CP FAUCETS. STUDENT LAVATORIES SHALL BE CHICAGO 3400-CP FAUCETS. P-TRAP MAY BE DEARBORN BRASS COMPANY #704 ASSEMBLY OR EQUAL 17 GA. P-TRAP. COMPRESSION STOPS MAY BE BRASSCRAFT #OCR 19 CS OR EQUAL. PROVIDE STAINLESS STEEL BRAIDED CONNECTORS AT LEAST 16" LONG. MOUNTING BRACKETS SHALL BE J.R. SMITH #0800.



3 TYPICAL REFLECTED CEILING PLAN
M1 1/4"=1'-0" OPTION #3

- SHEET NOTES -

- WALL HUNG HVAC UNIT
- THERMOSTAT @ +60° SEALED
- MAIN RUNNER TYP
- CROSS RUNNER TYP
- INTERIOR LIGHT FIXTURE REFER TO SHEET SHEET E1 FOR SPEC'S
- CEILING HEIGHT @ 8'-6" NOM
- SPLAY WIRE SEE 4/M2 FOR DETAILS
- FIXED CEILING END
- FREE CEILING END
- CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED
- NOT USED
- CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING
- TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE

NOTE:
WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM
AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DO NOT EXCEEDS 100 FT. PER CMC 609 EXEPTION #2

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CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
McKINLEY SCHOOL

12'X40' RELOCATABLE BUILDING
TYPICAL CEILING PLAN & NOTES

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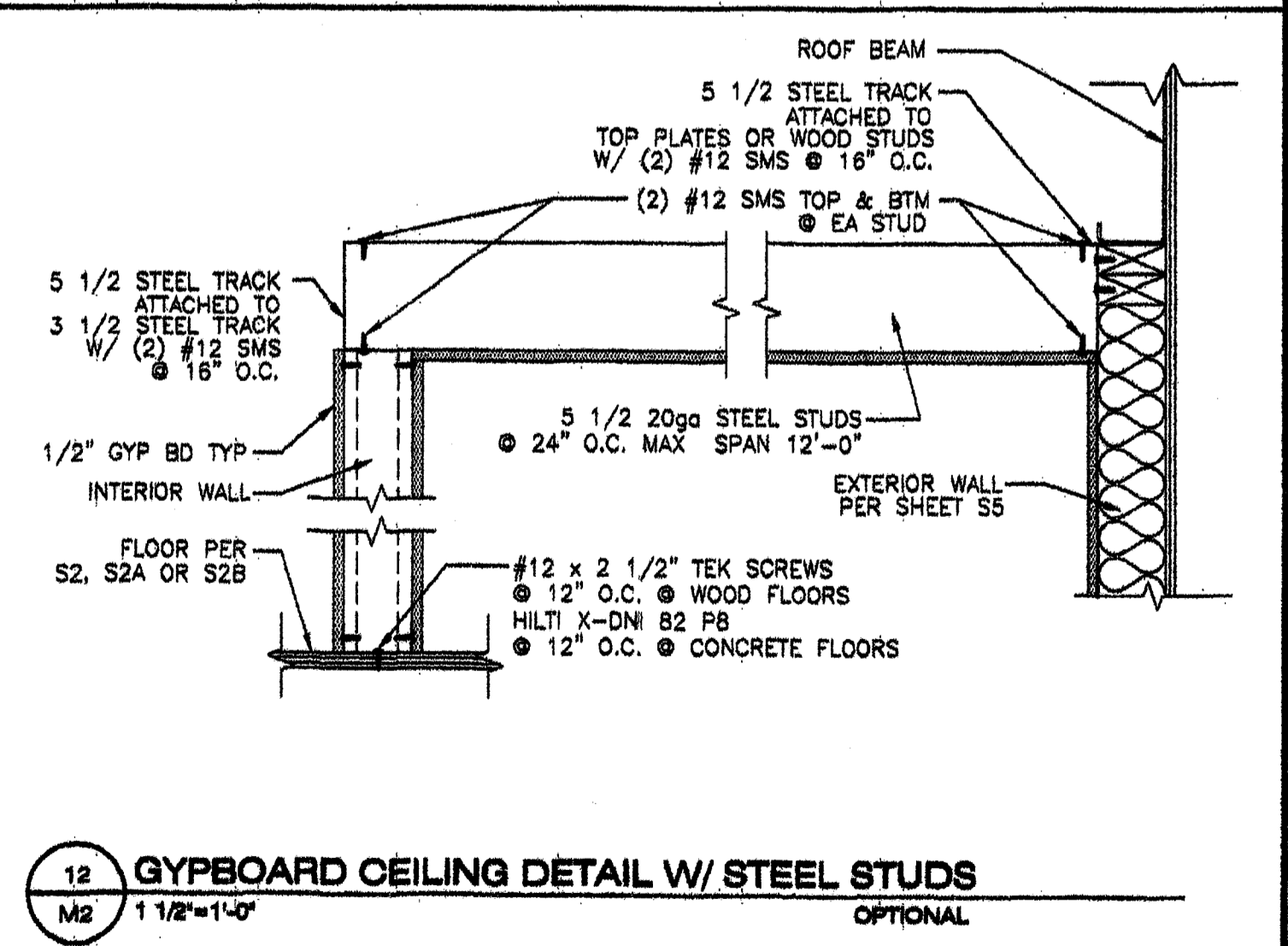
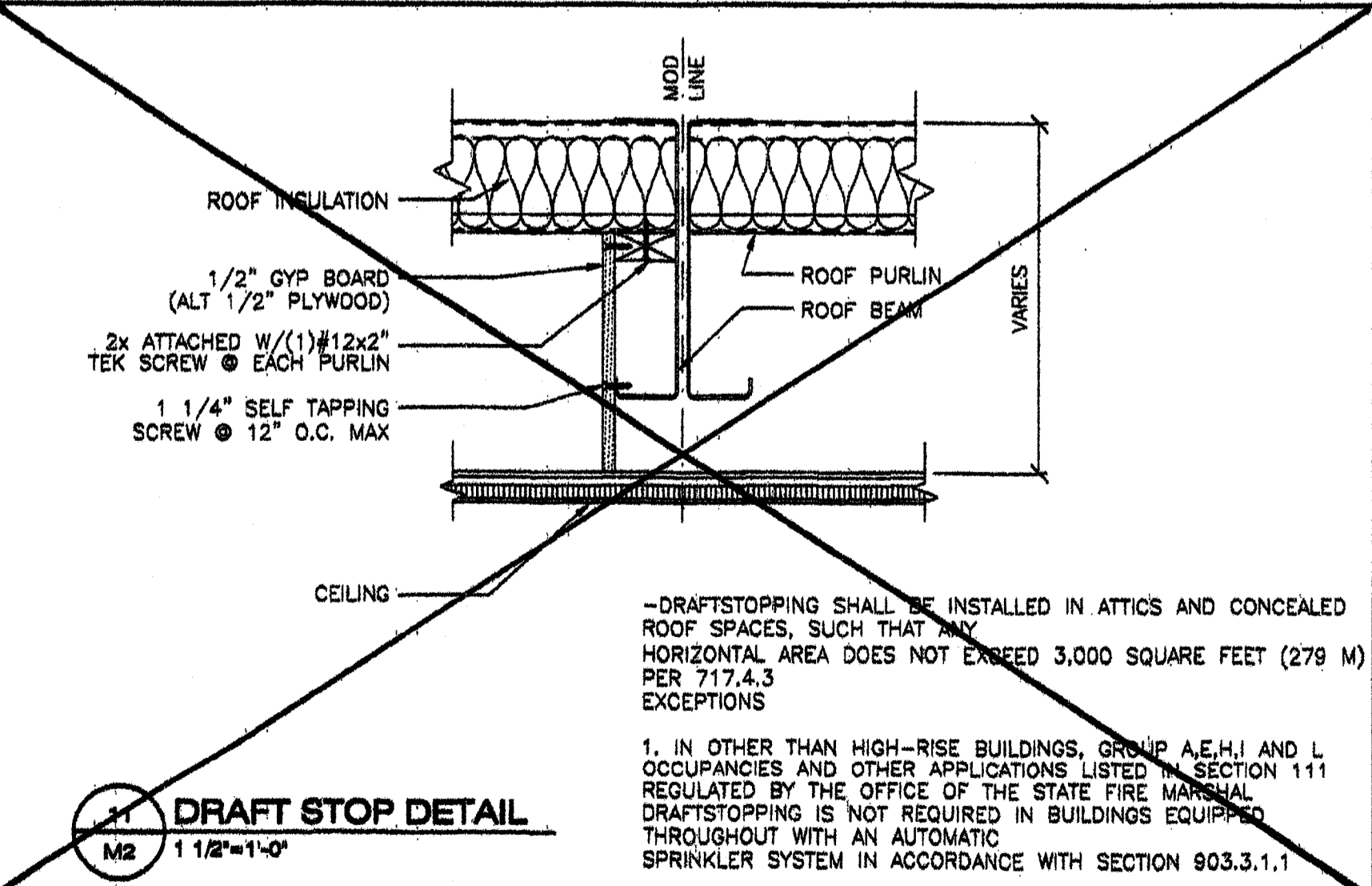
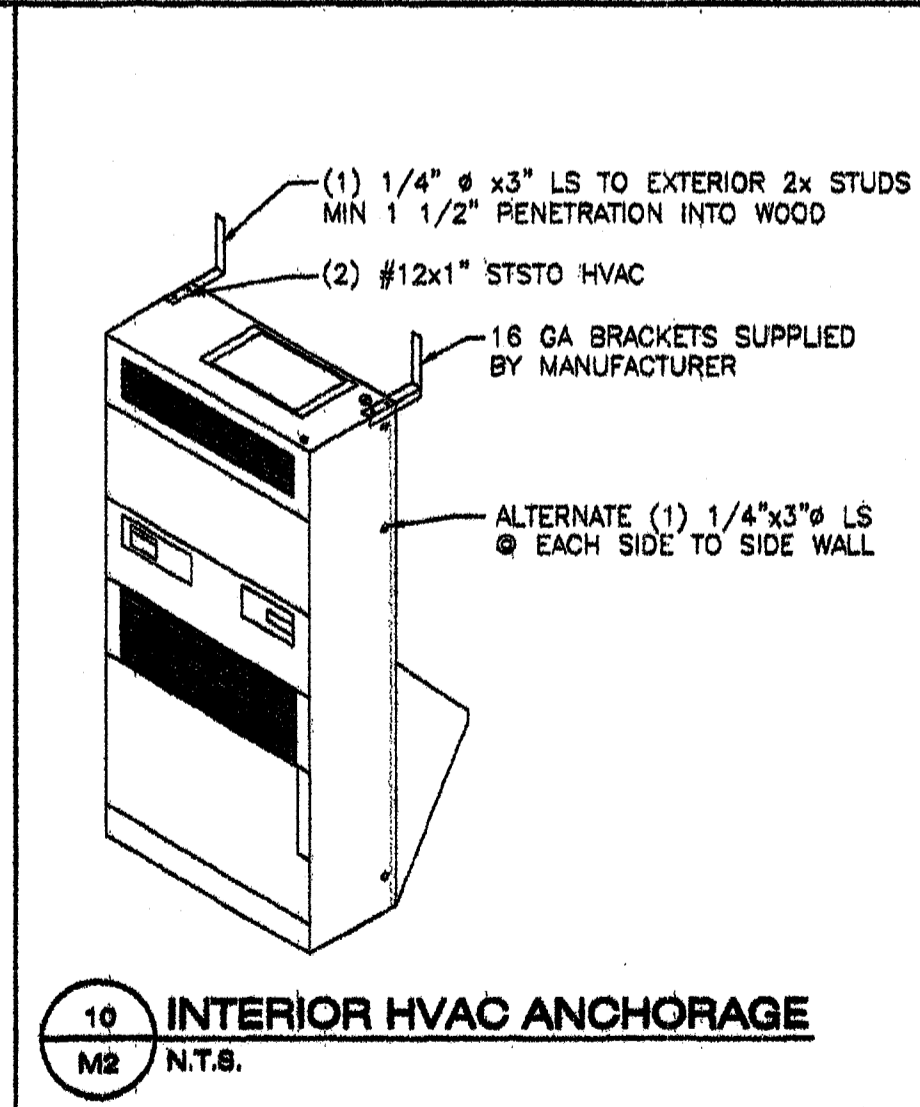
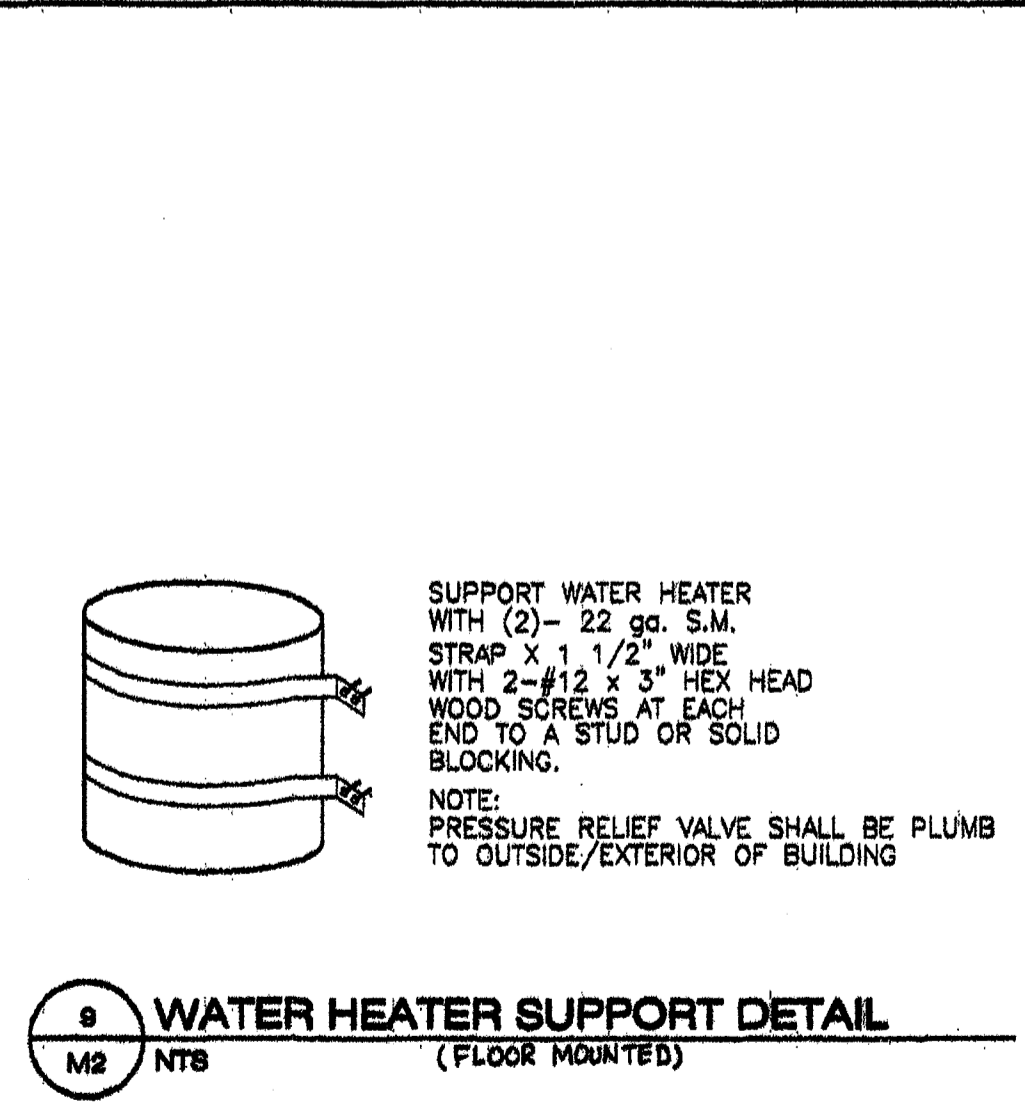
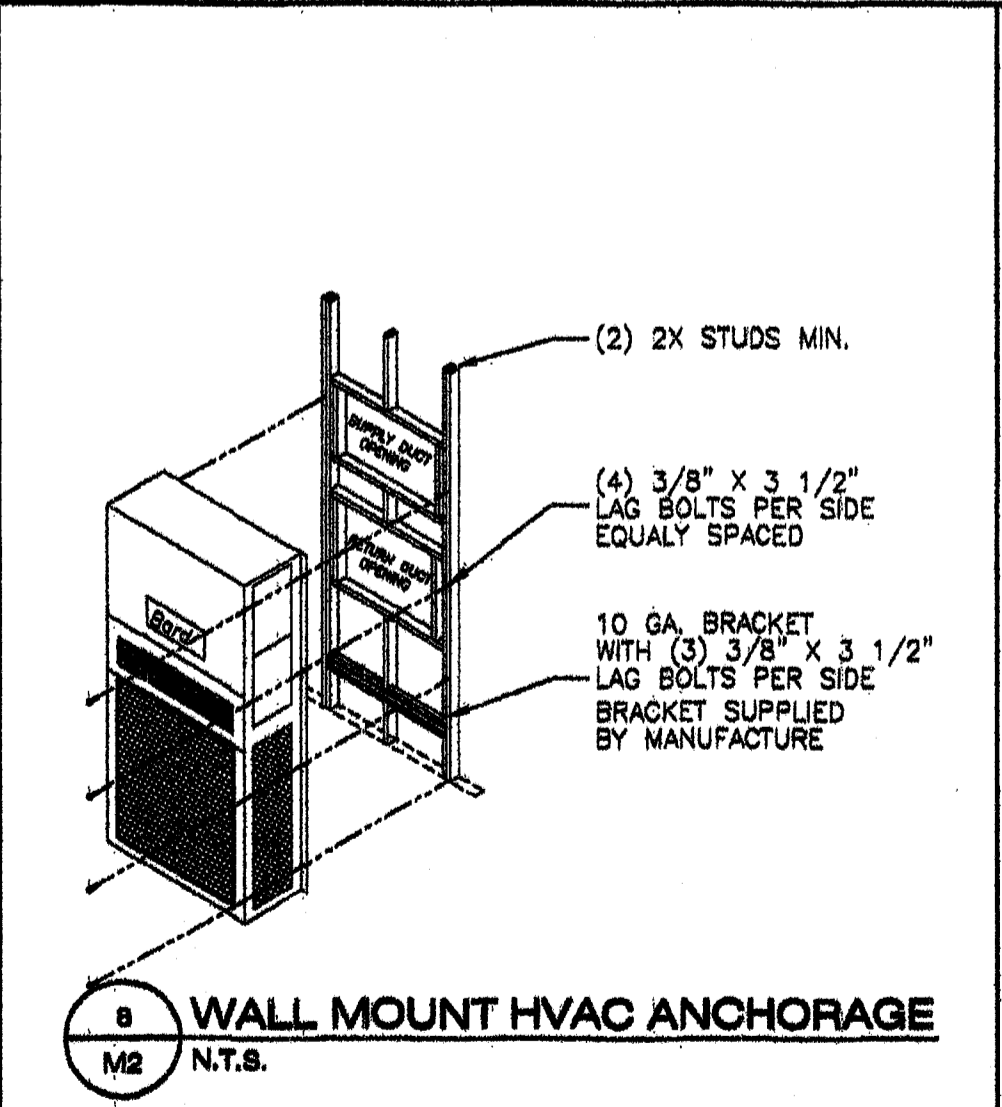
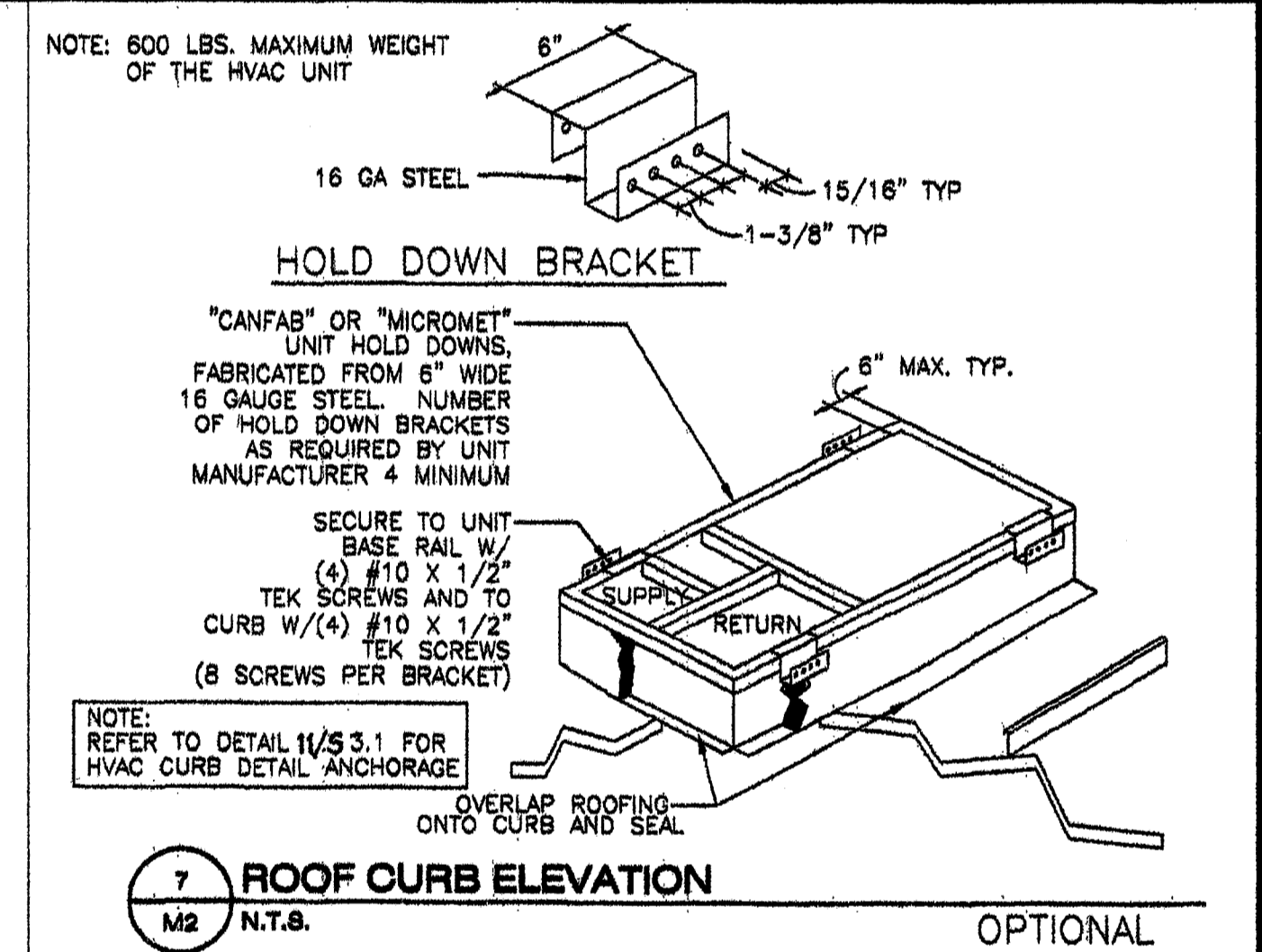
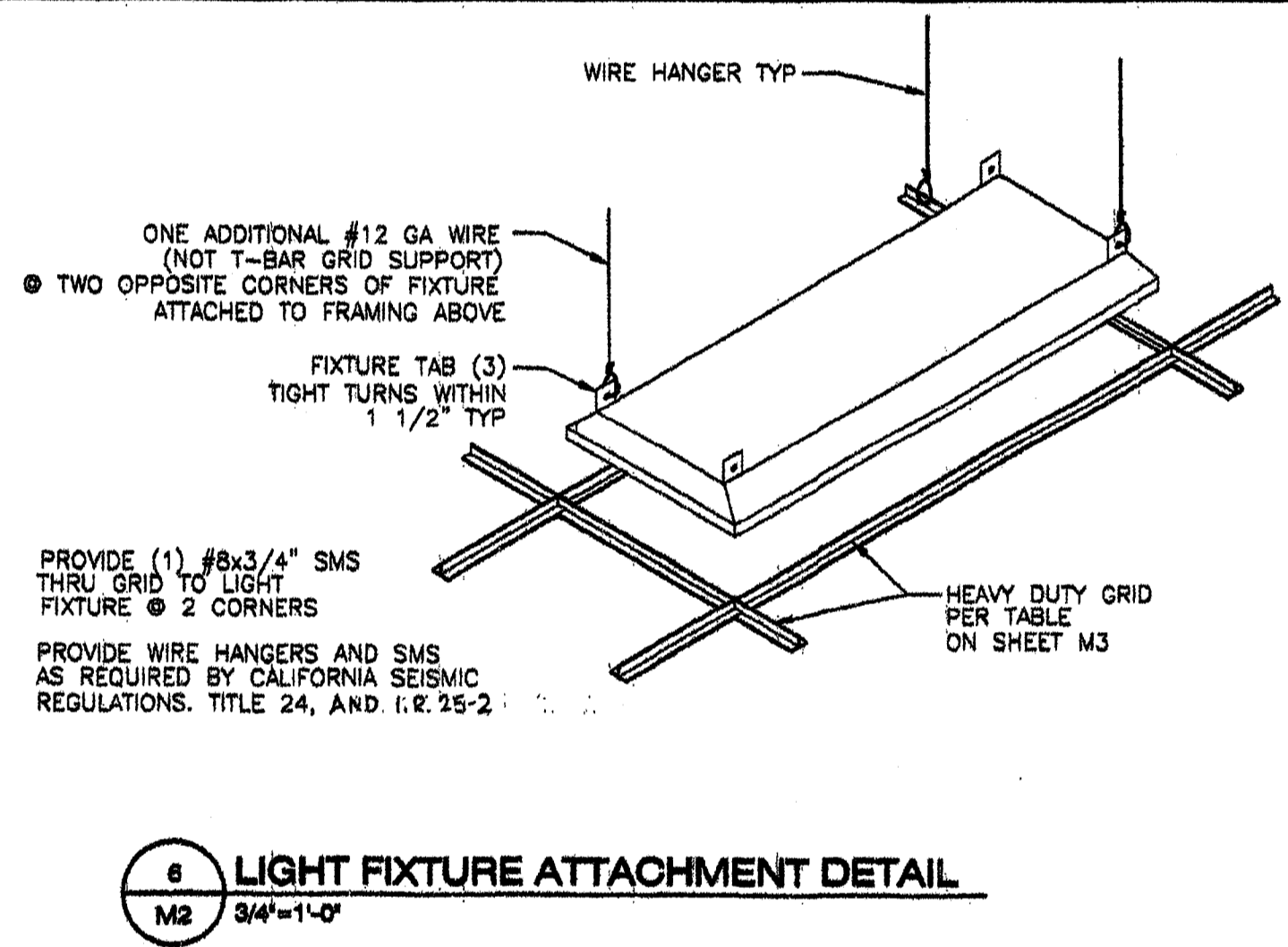
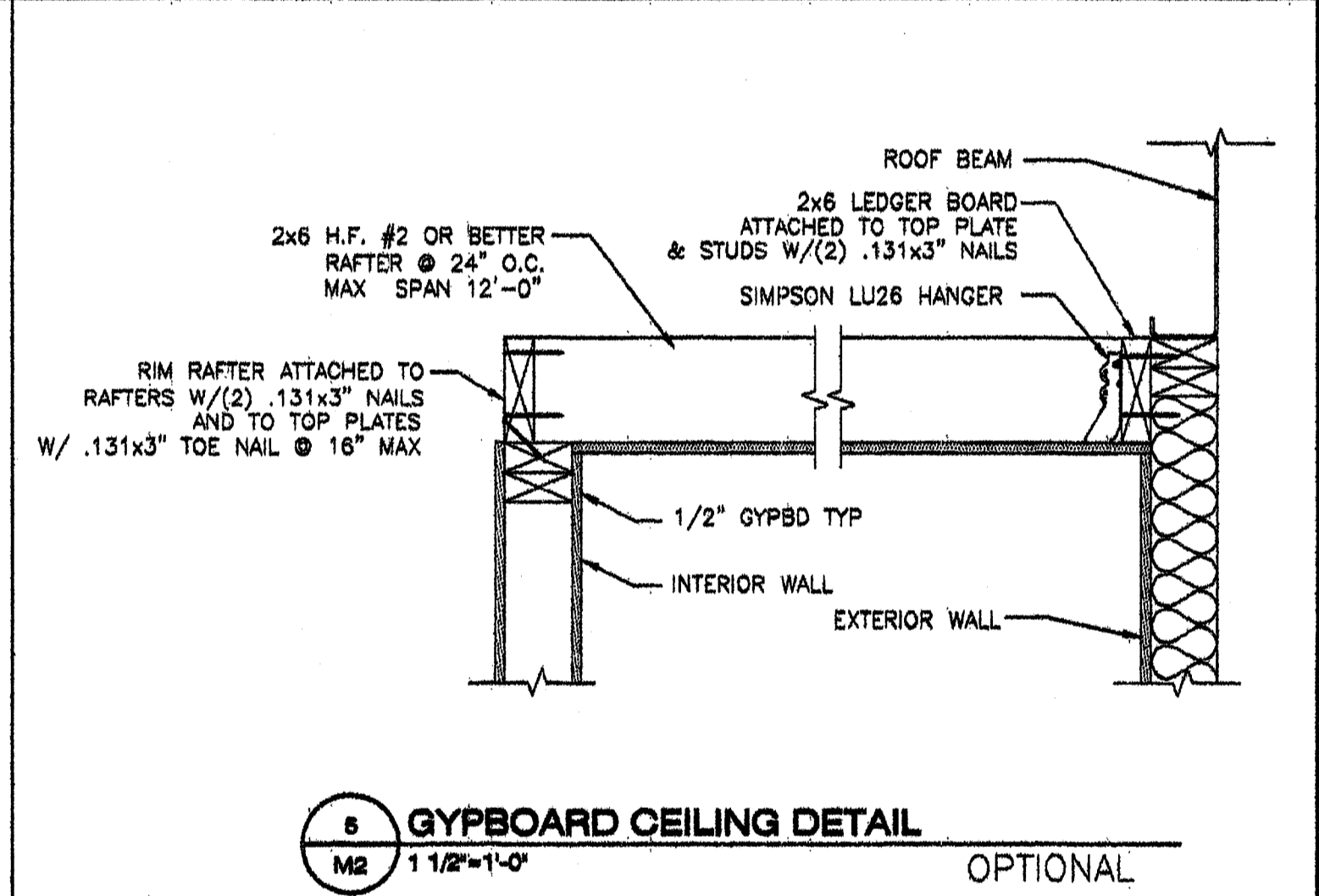
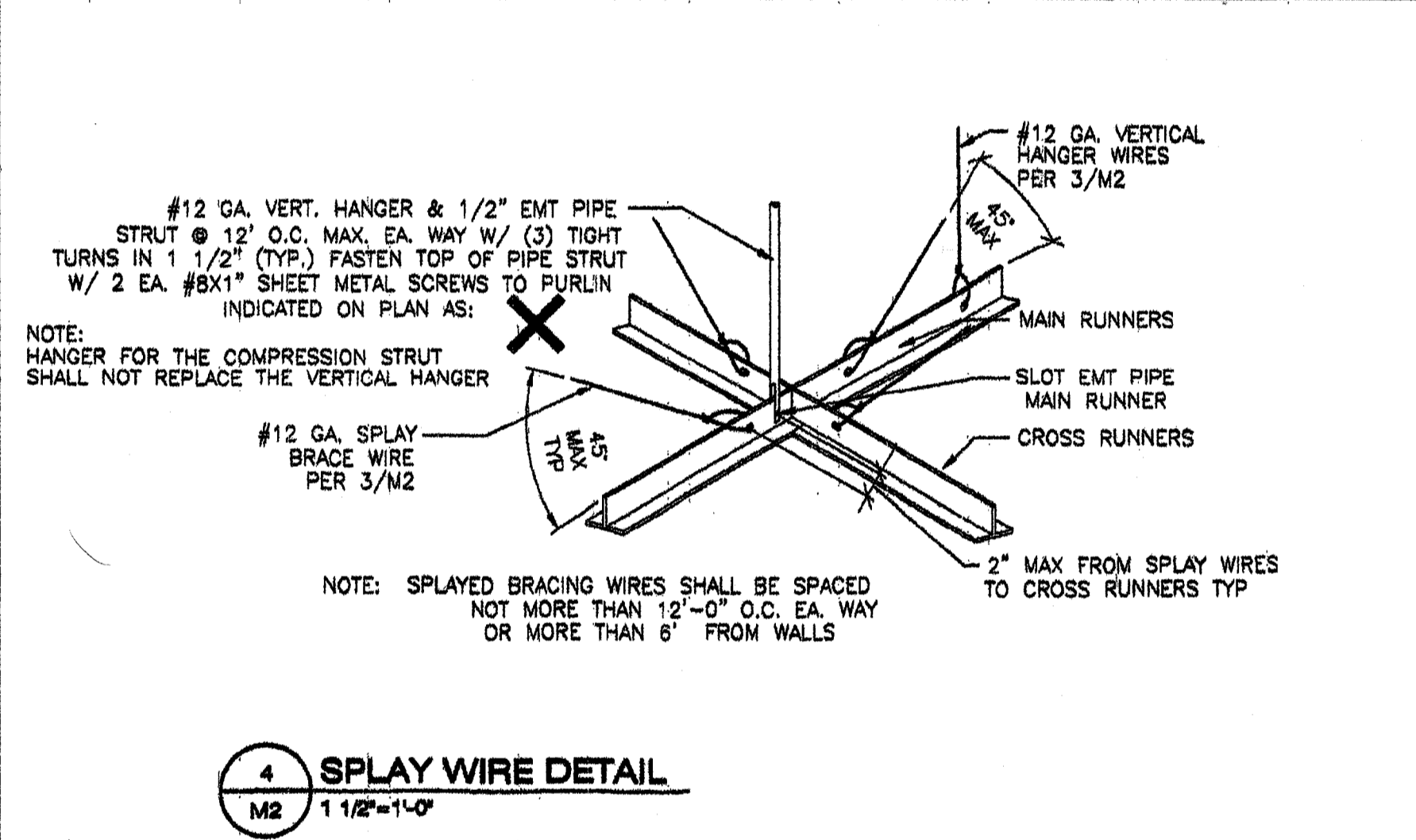
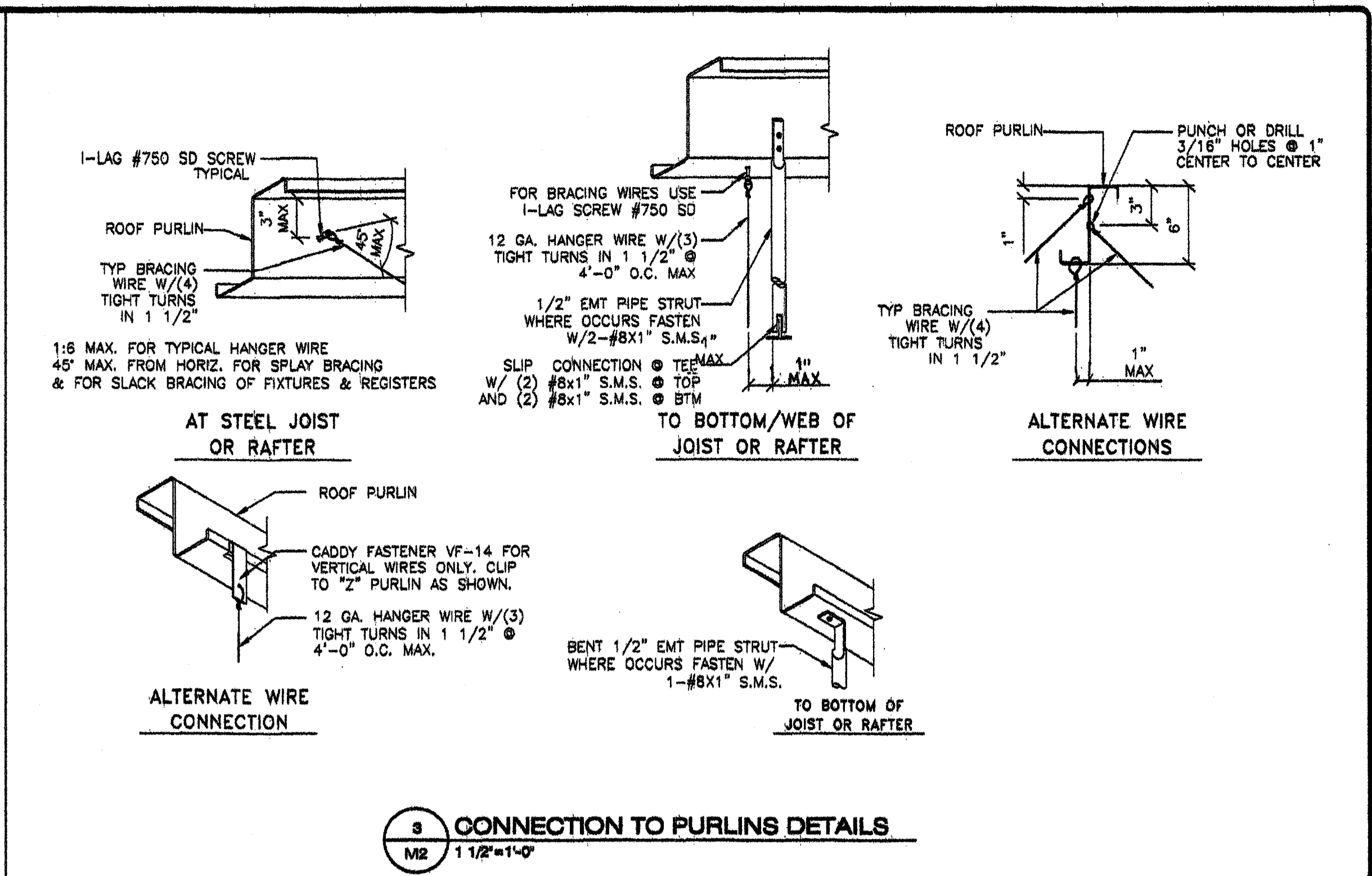
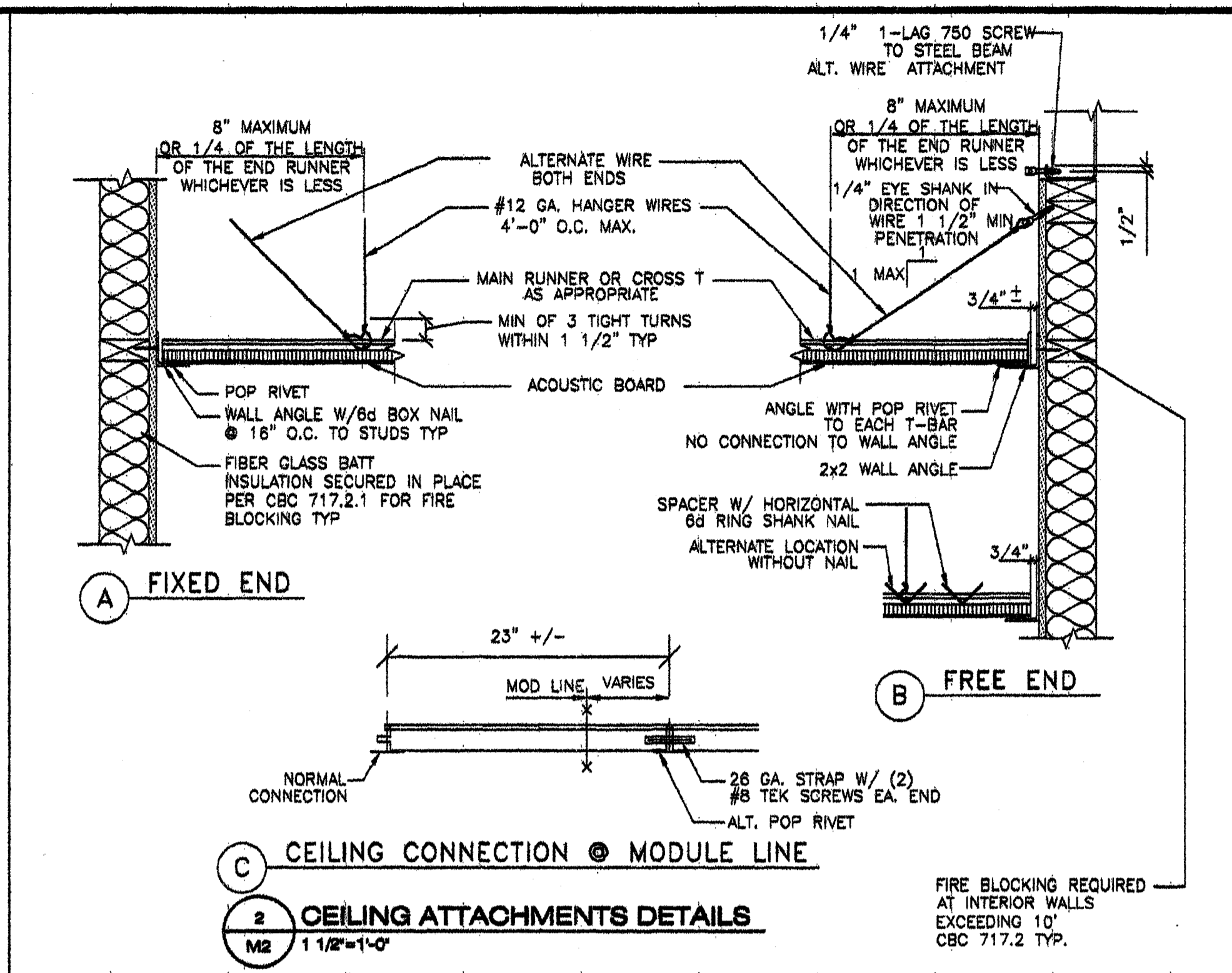
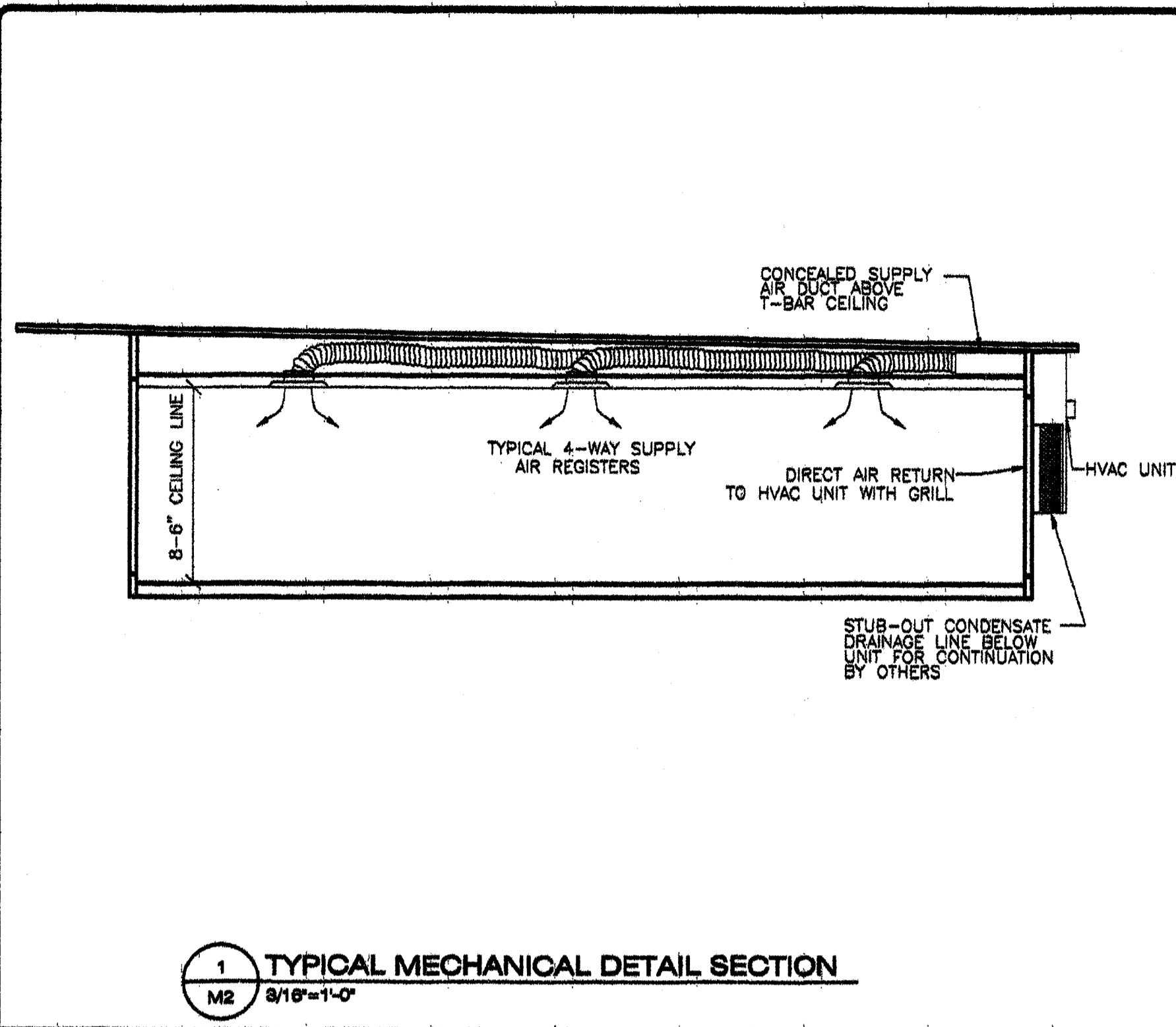
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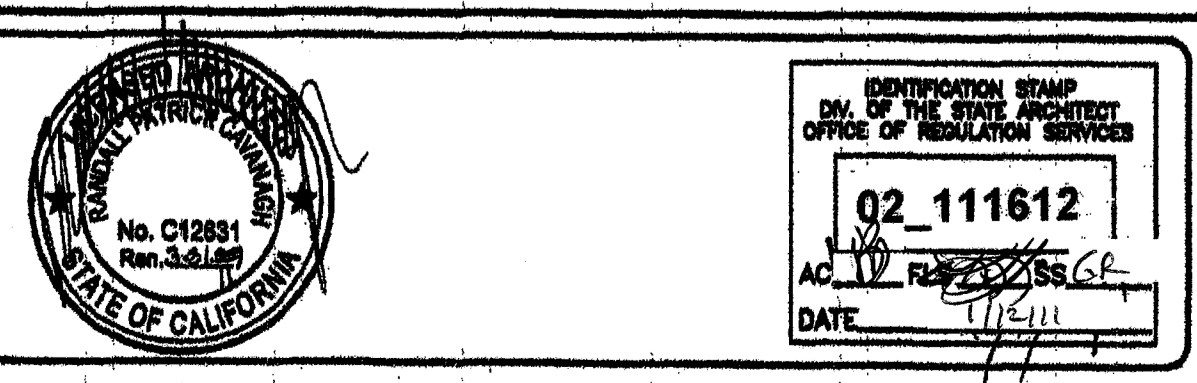
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**12'x40' RELOCATABLE BUILDING
MECHANICAL BUILDING SECTION & CEILING DETAILS**



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METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

- 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
- PROVIDE 12 GA HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
- CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
 - FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS

THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.,
- ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
- CLASSIFICATION OF CEILING GRID: CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" CHICAGO METALLIC, OR DONN(USG) PER ASTM C635 MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL #200-01 OR DX26. MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER CHICAGO METALLIC 1214-01 OR DONN DX 416 CROSS TEES. MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A. ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS T, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE
DONN/USG	DX-26	DX-424	DX-216
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200-01	1204-01	1228-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

HVAC CFM CHART

MODEL NUMBER	DESCRIPTION	MAX. CFM	UNIT WEIGHT LBS.
WH421-A	3 1/2 TON HEAT PUMP	1400	530
WH482-A	4 TON HEAT PUMP	1550	560
WH602-A	5 TON HEAT PUMP	1700	560

GENERAL NOTES

- HEATING VENTILATING AND AIR CONDITIONING (HVAC)
- HEAT PUMP: SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARD 240-77.

REFERENCE BRANDS: BARD WH421-XXXXXXX
BARD WH482-XXXXXXX
BARD WH602-XXXXXXX

MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT

ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE AND MEET CURRENT ENERGY STANDARDS.

A.) THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER

B.) THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE THIRD FRESH AIR.
 - DUCTWORK.

A.) CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.

B.) NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE, TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
 - AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
 - SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAX. 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTED, OR EQUAL AND 90- B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
 - REGISTERS AND DIFFUSERS: PROVIDE THREE (MIN) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS
 - AIR CONDITIONING CONTROLS. THERMOSTAT: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS.
 - 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING WITH 4 SEPARATE TIME/TEMPERATURE SETTING FOR 24-HOUR PERIOD.
 - KEY BOARD LOCKOUT SWITCH.
 - PROGRAMMABLE DISPLAY.
 - 2-HOUR OVERRIDE MINIMUM.
 - STATUS INDICATED LED'S.
 - BATTERY BACK-UP.

PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODERS IF92-371. MOUNT @ +60° w/COVER (SEALED-SETTING ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.) +48" UNSEALED.
 - THERMAL INSULATION
 - ROOF INSULATION: R-19 UNFACED.
 - WALLS INSULATION: R-13 KRAFT FACED.
 - FLOORS INSULATION: CONCRETE FLOOR

FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 719.
 - FACTORY-MADE AIR DUCTS. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.M.C. STANDARD NO. 6-1. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH U.M.C. STANDARD NO. 6-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF UMC STD. 6-1.

DUCT SUPPORT
FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE X 26 GA. GALV. STRAP @ MAX 6'-0" O.C. ATTACH TO RAFTER W/2 #8 SMS @ EACH END.
SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE X 26 GA. GALV. STRAPS MIN. 2 PER PLENUM.
SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX W/2 #8 SMS.

- FIREBLOCKING: SHALL BE PROVIDED IN THE FOLLOWING LOCATION

- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL. SEE CBC SECTION 717.2

INSULATION SCHEDULE

ZONE	WALL	ROOFS	FLOORS
1-14 & 16	R -13	R -19	R -13
15	R -13	R -30	R -13

REVISIONS

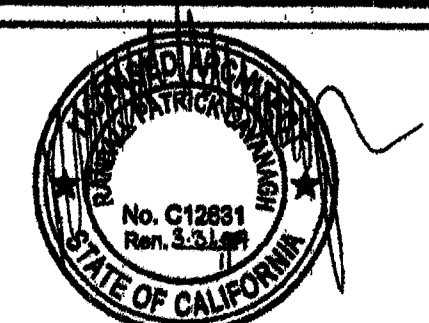
NO.	DATE	DESCRIPTION

DATE: 2/24/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
**12X40' RELOCATABLE BUILDING
CEILING & MECHANICAL NOTES**



APPROVALS:



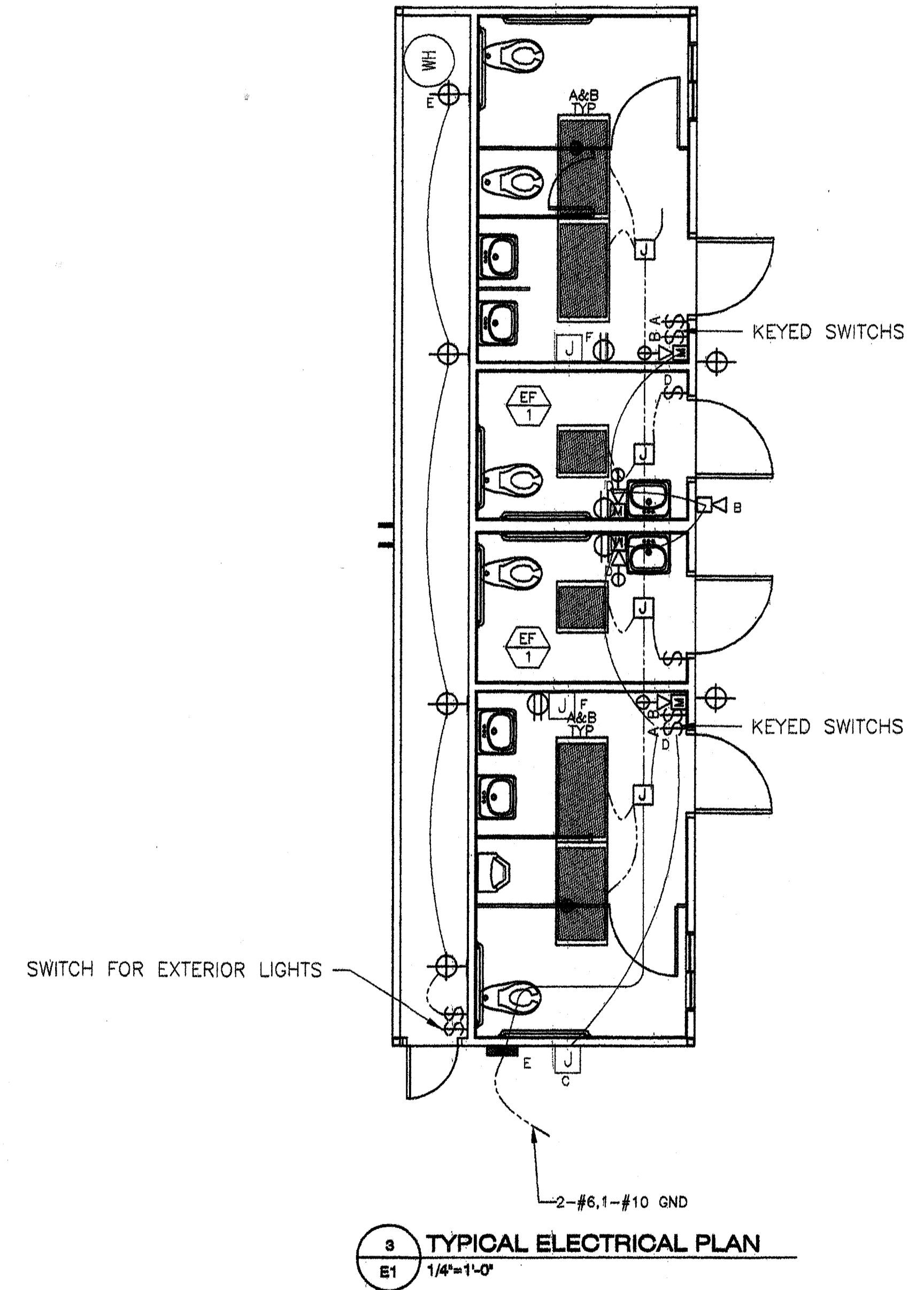
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF INSULATION SERVICES
02-111612
AC 10 FIRE RES. S.C.R.
DATE: 1/21/11

PROJECT NO.
PC
M3

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STANDARD ELECTRICAL SYMBOLS

- EXIT LIGHT WHERE TWO OR MORE EXITS ARE REQUIRED
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE
- DUPLEX WALL CONVENIENCE OUTLETS
⊙ +18" TO CENTER LINE ABOVE F.F. AND 12"-0" MAX TYP U.O.N.
- FOURPLEX WALL OUTLET
⊙ +18" TO CENTER LINE U.O.N..
- WEATHER PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET
- GROUND FAULT CIRCUIT INTERRUPT OUTLET
- SINGLE POLE LIGHT SWITCHES ⊙ +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ELECTRICAL CROSSOVER J-BOXES ABOVE T-BAR CEILING #1-4"x1", #22 4"x2"
- CLOCK/SPEAKER COMBO ⊙ +90"
- SWITCH SUBSCRIPTS - a=DEVICE CONTROLLED.
- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- SPEAKER- OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- DATA/COMMUNICATION OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +18" U.O.N. AND A 3/4" CONDUIT STUB CEILING SPACE.
- INTERCOM TELEPHONE- OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48" U.O.N.
- MOTION SENSOR OUTLET STUB-UP -PROVIDE (1)4" SQ. BOX W/ SINGLE DEVICE RING AND COVER AND ONE 3/4" CONDUIT STUB TO ABOVE CEILING (DEVICES BY OTHERS)
- SECURITY/INTRUSION KEY PAD - OUTLET ONLY- 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER ⊙ +48" AND ONE 3/4" CONDUIT STUB ABOVE CEILING
- DOOR CONTACT - PROVIDE (1) EMPTY 1/2" EMT THROUGH DOOR HEADER STUB ABOVE CEILING
- CATV OUTLET STUB-UP -PROVIDE (1)4" SQ. BOX W/ SINGLE DEVICE RING AND COVER AND(1) 3/4" CONDUIT TO ABOVE CEILING (DEVICES BY OTHERS)
- FIRE ALARM PULL STATION - OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48". (DEVICE N.I.C.)
- FIRE ALARM HORN - OUTLET ONLY - 4" SQ. SINGLE GANG J-BOX WITH BLANK WEATHERPROOF COVER ⊙ +90" MIN (DEVICE N.I.C.)
- FIRE ALARM VISUAL ALARM- OUTLET ONLY - 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +80". A.F.F. BUT NO GREATER THAN +96". IF CEILING MOUNTED PER NFPA72 TABLE 6-4.4.1(b).
- MINI HORN BOX W/ SINGLE DEVICE RING AND COVER ⊙ +80"A.F.F. BUT NO GREATER THAN +96". STUB TO ATTIC
- THERMOSTAT ⊙ +60" SEALED, +48" A.F.F UNSEALED
- ULTRASONIC OCCUPANCY SENSOR
- ELECTRICAL PANEL



- B. EXTERIOR 4 SQ. J-BOX (FIRE ALARM HORN) INSTALL AT +90" FROM FINISFED FLOOR.
- C. J-BOX ONLY (FIRE ALARM TIE-IN) INSTALL 4" SQ. BOX, 2 GANG RING WITH 1" CONDUIT TO ABOVE CEILING. TIE TO 3/4" CONDUIT AS SHOWN ON PLAN FOR FIRE ALARM DEVICES.
- D. 4" SQ. J-BOX (FIRE ALARM HORN/STROBE).
- E. ELECTRICAL SERVICE TIE-IN LOCATION.
- F. 4" J-BOX MOUNTED AT +36" TO CENTER WITH 230 V. POWER FOR DISTRICT SUPPLIED HAND DRYERS.
- G. EXTERIOR ENERGY SAVING LIGHT FIXTURE. STANDARD LIGHT SWITCH LOCATED IN PLUMBING CHASE. IDENTIFY SWITCH AS SUCH.
- H. 6 GALLON 120V ELECTRIC WATER HEATER. MOUNT ON WALL AS HIGH AS POSSIBLE WITH dsd APPROVED PLATFORM AND SAFTEY STRAP.

NOTE:
AT ANY SPACE REQUIRING 2 OR MORE EXITS PROVIDE EXIT SIGNS (CBC 1011) AND EMERGENCY EXIT ILLUMINATION (CBC 1006)

NOTE:
THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT, SMOKE DETECTORS AND PULL STATIONS WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2'X4' FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. T-8 ELECTRONIC BALLASTS (3)32 WATT TUBES, WT. 27 LBS.	SP41 32 W	CRESCENT 24GP40HFS115BYF2 OR LITHONIA 2GT440A12120ESPWS1846LPESCW
	FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. 1.25 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & POSIGRIP STAINLESS STEEL SCREWS. (PROVIDE EMERGENCY BATTERY BACK-UP WHERE TWO OR MORE EXITS OCCUR.)	(2) 7W TT 2700 K	ENERTRON 7026B-L OR EQUAL

- GENERAL NOTES -**
- 1.- F.A. : STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT
 - 2.- IF OPTIONAL DOOR OCCURS A PULL STATION J-BOX AND EXIT SIGN ARE REQUIRED. PULL STATIONS ARE REQUIRED ⊙ EVERY EXIT
 - 3.- STUB OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES SHOWN ARE DIAGRAMITICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
 - 4.- SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
 - 5.- THE LIGHTS FOR EACH ROOM OVER 250' SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR. WATT STOPPER W-500A, W-1000A OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE IN CONJUNCTION WITH BI-LEVEL SWITCHING.

BASED ON PC# 02-109808

REVISIONS		
NO	DATE	DESCRIPTION

DATE: 06/16/10
SCALE: NOTED
DRAWN BY: RS/MP
SERIAL NO.:

CUSTOMER:
BAKERSFIELD SCHOOL DISTRICT
McKINLEY SCHOOL

12'X40' RELOCATABLE BUILDING
TYPICAL ELECTRICAL PLAN & NOTES

APPROVALS:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

02-111612
AC: [Signature] DATE: 1/12/11

PROJECT No.
E1

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- GENERAL NOTES -

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, & CA. FIRE CODE.
 2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
 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 ENFORCING AGENCY.
 4. JUNCTION BOXES-- GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL AT +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
 5. COVERS-- INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
 6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL REGULATIONS (CBC 907.2.3) AND THE 2002 EDITION OF NFPA 72.
 7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
 8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH--EVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 7.4.2)
 9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 7.5)
 10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY STATE FIRE MARSHAL. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.
- IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 10db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY PER [CBC].

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINATES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.

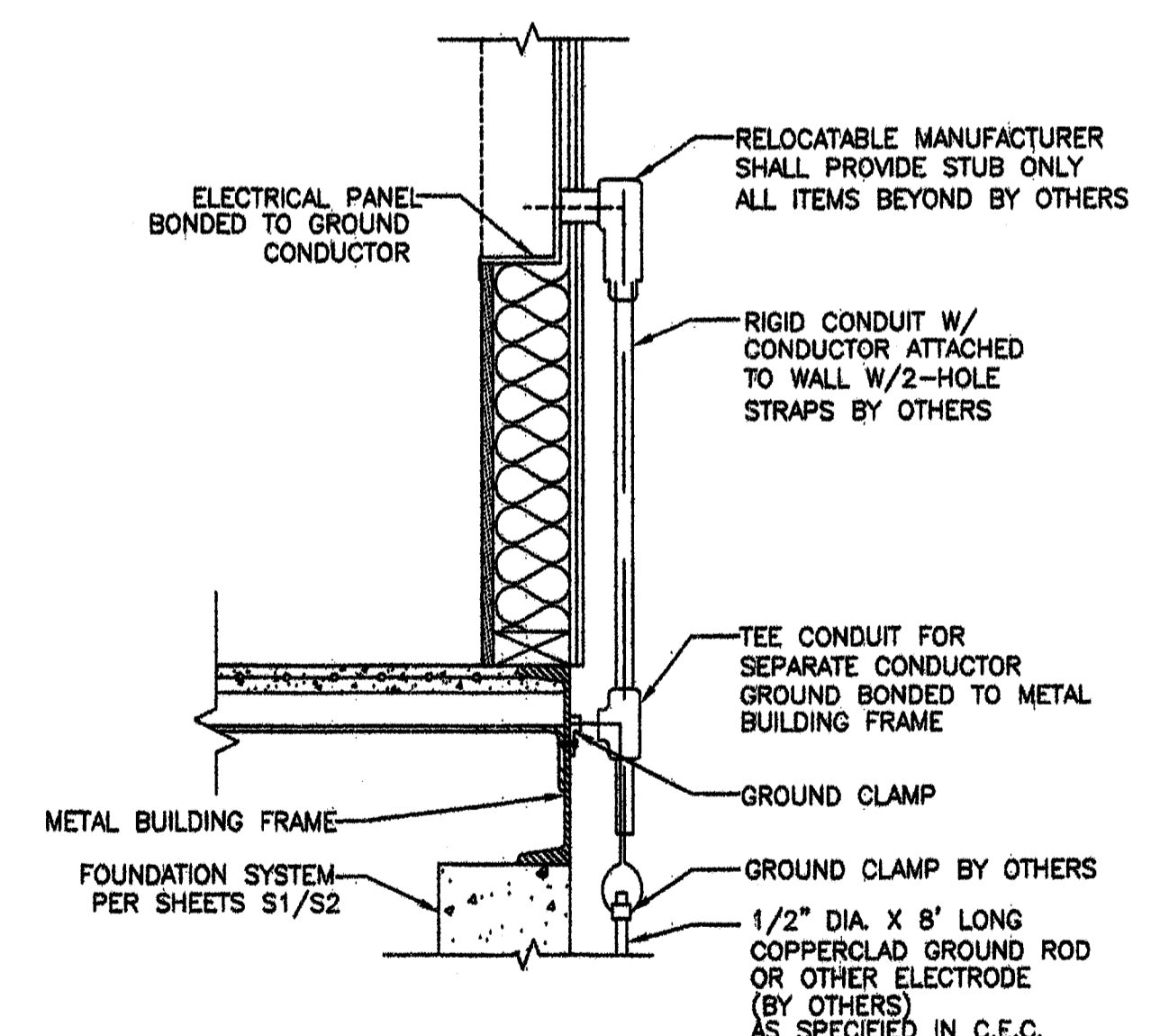
ELECTRICAL

1. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
 2. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
 3. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING. SPACES TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
 4. 2X4 FLUORESCENT FIXTURES SHALL BE STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-12, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE .125 INCH.
 5. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACED FROM INSIDE THE FIXTURE.
 6. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
 - A) CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
 - B) CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPERABLE HANGING CLIP & APP'D RECEPT.
- THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING. IF 60 DEGREES C. WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY BE PROVIDED ON THE DRAWING.

VOLTS: 120/240 SINGLE PHASE		PANEL "A"		FEED: EXTERIOR LB								
MAIN: 60 AMP MAIN BKR.		LOCATION: INTERIOR		MOUNTING: FLUSH								
LOAD	WATTS		BRK.	C	A	B	C	BRK.	WATTS		LOAD	
	A	B							A	B		
RECEPTS	1440		20	1	1			2	2	3216	WATER HEATER	
EXIT LIGHT / EXTERIOR LIGHTS		300	20	1	3			4	30	3216	WATER HEATER	
INTERIOR LIGHTS	1440		20	1	5			6				
F.A.C.P.			*		7			8				
					9			10				
					11			12				
					13			14				
					15			16				
					17			18				
PHASE WATTAGE	2880	300							3216	3216	PHASE WATTAGE	
TOTAL WATTS "A" LEG =	6096								TOTAL WATTS A+B=	9612	TOTAL WATTS "B" LEG =	3516
TOTAL WATTS =	9612								40 AMPS	120/240V	SINGLE PHASE	60 AMP BUS.

FEEDERS: 3-#2 & 1-#6 CU. TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY NFPA 72 4.4.1.4.2.1



SIZE OF CONDUCTORS SHALL COMPLY W/CEC. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL, IF AVAILABLE (CEC). ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODULE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

1 GROUNDING DETAIL
E2 1 1/2"=1'-0"

BASED ON PC# 02-109808

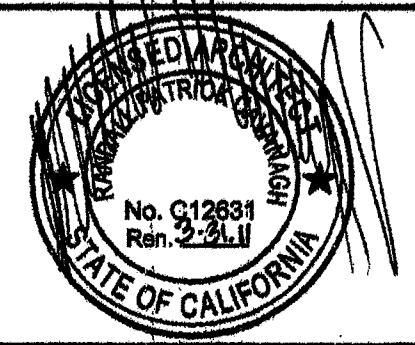
REVISIONS		
NO	DATE	DESCRIPTION

DATE: 08/06/10
SCALE: NOTED
DRAWN BY: RS
SERIAL NO.:

CUSTOMER: BAKERSFIELD SCHOOL DISTRICT
MCKINLEY SCHOOL

12'X40' RELOCATABLE BUILDINGS
ELECTRICAL NOTES & DETAILS

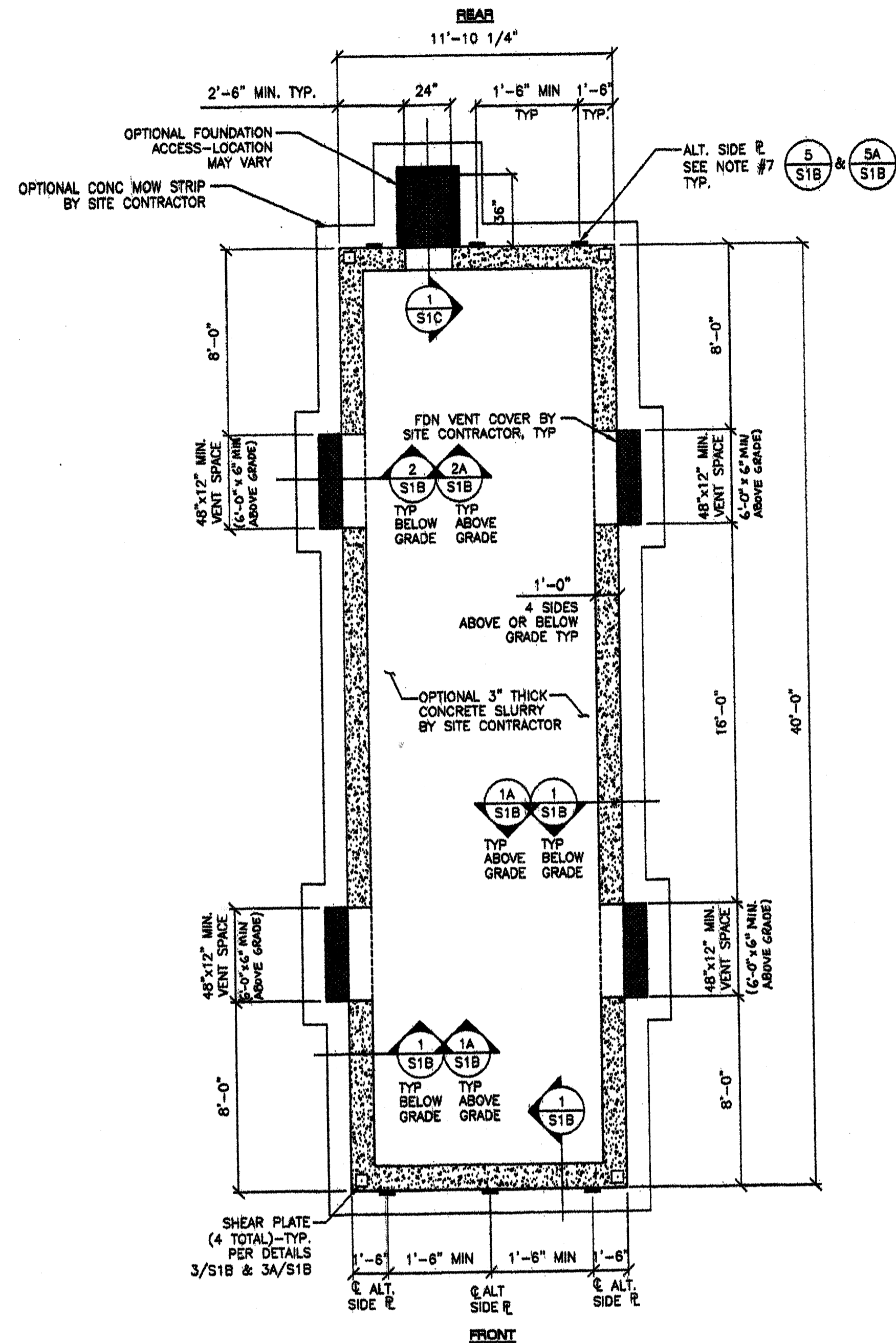
APPROVALS:



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02-111612
AC. FEB 20 2010
DATE: 1/21/11

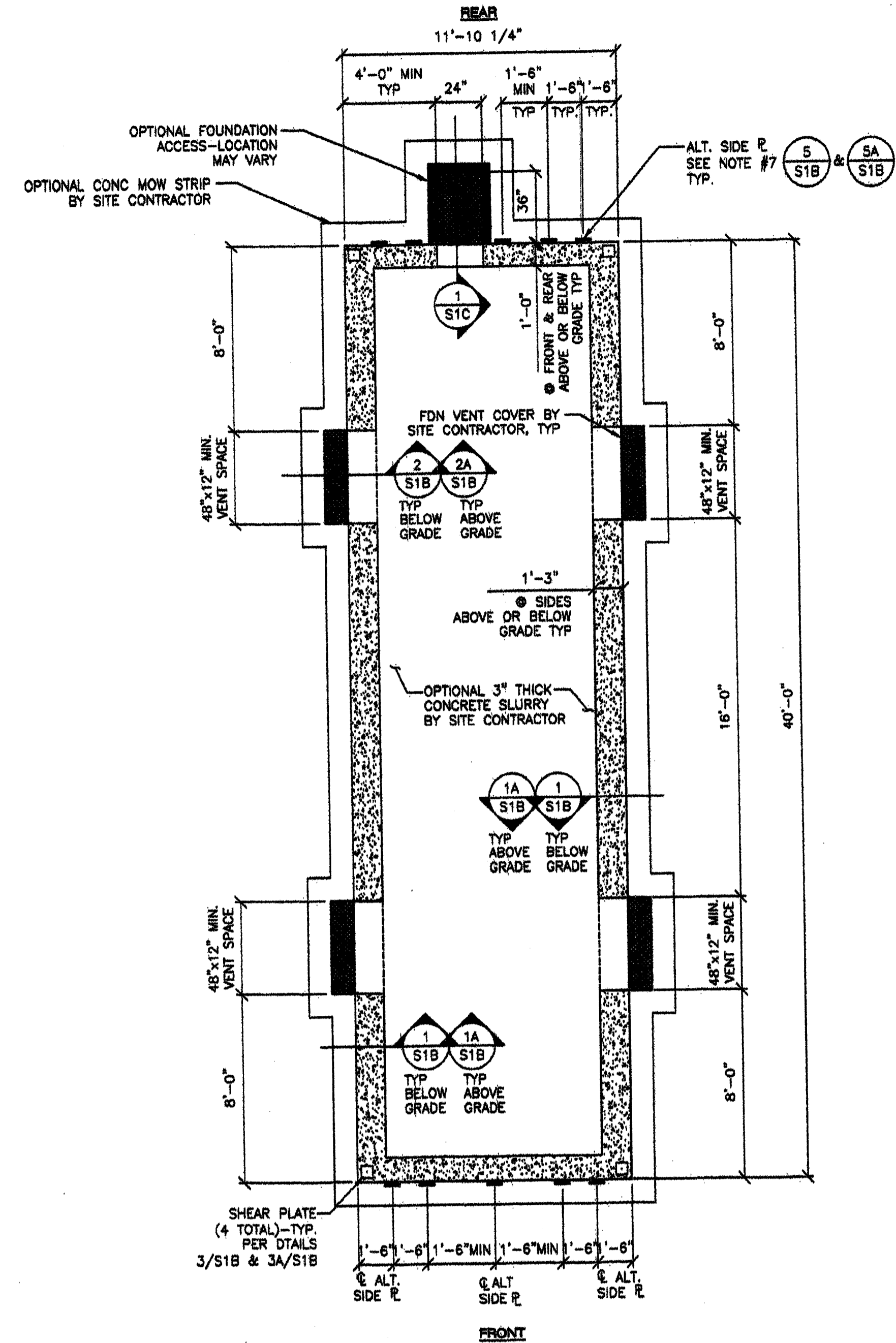
PROJECT No. PC
E2



A FOUNDATION PLAN (ABOVE/BELOW GRADE)
 S1A 1/4"=1'-0" (80 PSF FLOOR LIVE LOAD PLUS 15 PSF PARTITION LOAD)

NOTES:

- DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.
- ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 2500 PSI MIN. PROPORTIONED PER TITLE 24, PART 2, SECTION 1905A.3 OR 1905A.4.
- THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1916A.2 IF CONCRETE WITH A COMPRESSIVE STRENGTH OF 3500 PSI IS SPECIFIED THEN THE TESTING OF THE REINFORCING BARS MAY BE WAIVED PER SECTION 1916A.4. THE CEMENT SHALL BE CERTIFIED PER SECTION 1916A.1.
- REINFORCING STEEL 40,000 PSI MINIMUM, PER ASTM A615
- MINIMUM SOIL BEARING CAPACITY 1500 PSF.
- DESIGN SOIL BEARING CAPACITY 1500 PSF.
- ALTERNATE SIDE PLATES MUST COMPLETELY REPLACE TYPICAL SHEAR PLATES ALONG ANY ONE 40' WALL. COMBINATION OF TYPICAL SHEAR PLATES AND SIDE PLATES ALONG ANY ONE 40' WALL LINE IS NOT PERMITTED.
- MINIMUM BUILDING SEPARATION IS 6".



B FOUNDATION PLAN (ABOVE/BELOW GRADE)
 S1A 1/4"=1'-0" (CONCRETE 125 PSF FLOOR LIVE LOAD)

NOTES:

- DO NOT INSTALL BUILDING IN AREAS OF WATER FLOW LINES.
- ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 2500 PSI MIN. PROPORTIONED PER TITLE 24, PART 2, SECTION 1905A.3 OR 1905A.4.
- THE REINFORCING BARS MUST BE TESTED PER TITLE 24, PART 2, SECTION 1916A.2 IF CONCRETE WITH A COMPRESSIVE STRENGTH OF 3500 PSI IS SPECIFIED THEN THE TESTING OF THE REINFORCING BARS MAY BE WAIVED PER SECTION 1916A.4. THE CEMENT SHALL BE CERTIFIED PER SECTION 1916A.1.
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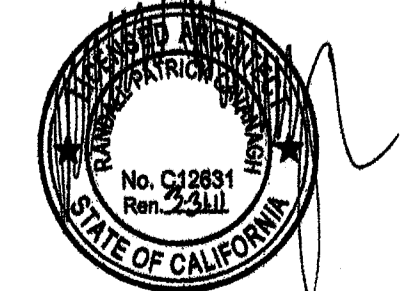
REVISIONS		
NO.	DATE	DESCRIPTION

DATE: 02/21/08
 SCALE: NOTED
 DRAWN BY: RL
 SERIAL NO.:

CUSTOMER:
 12' x 40' RELOCATABLE BUILDINGS
 CONCRETE FOUNDATION PLAN
 50 PSF LIVE LOAD + 15 P.S.F & 125 PSF



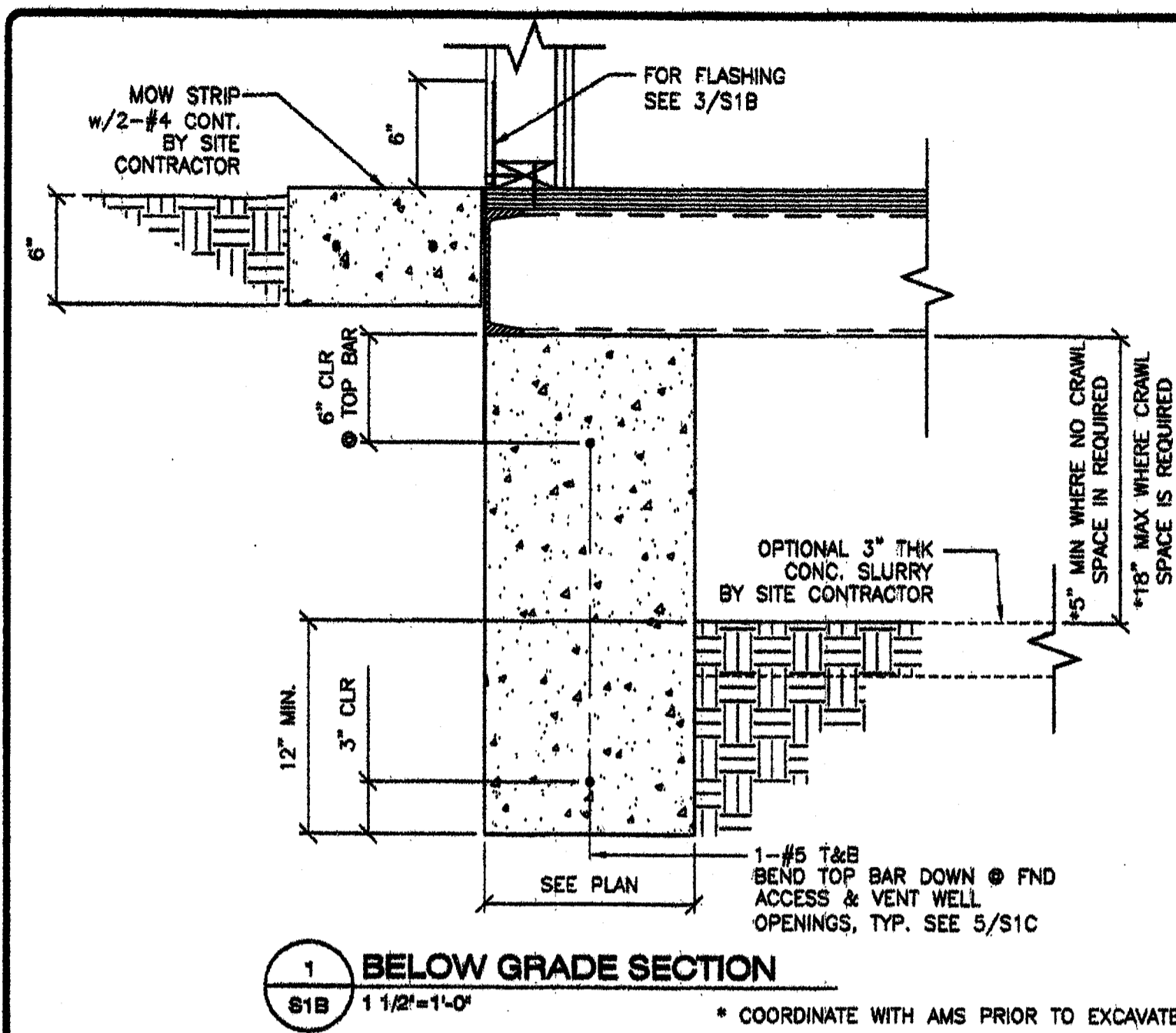
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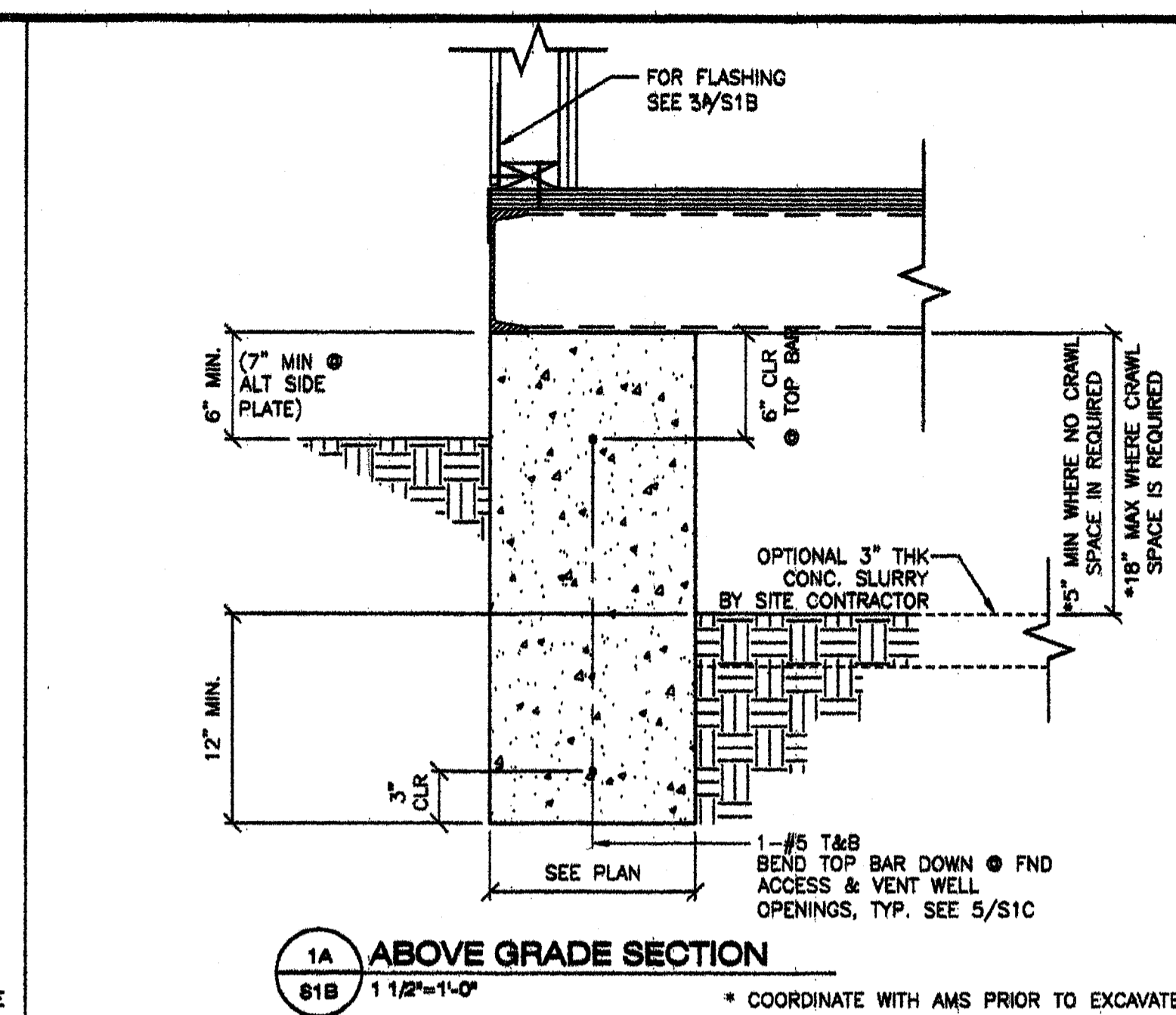
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 DATE: 1/12/11

PROJECT No.
S1A

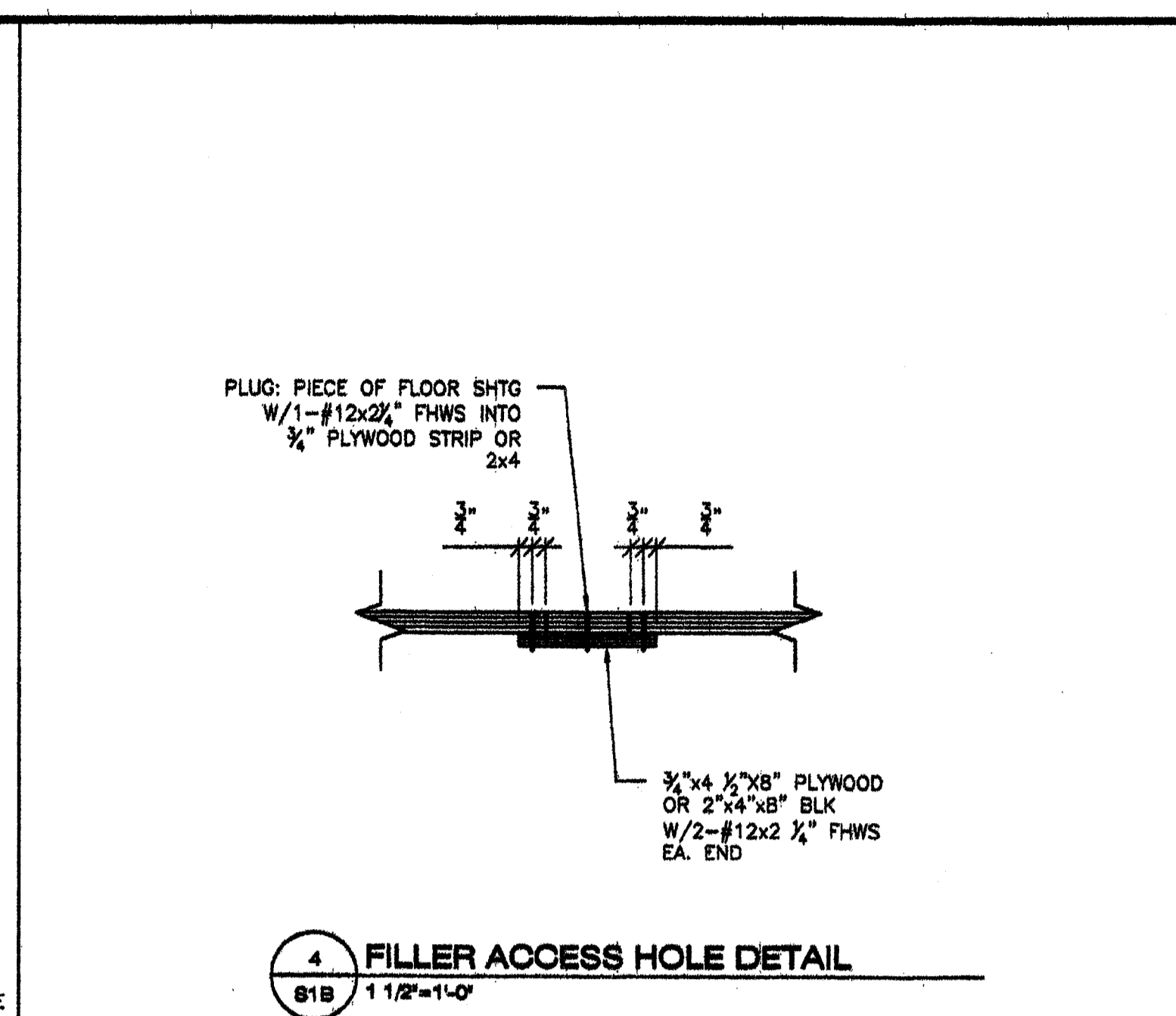
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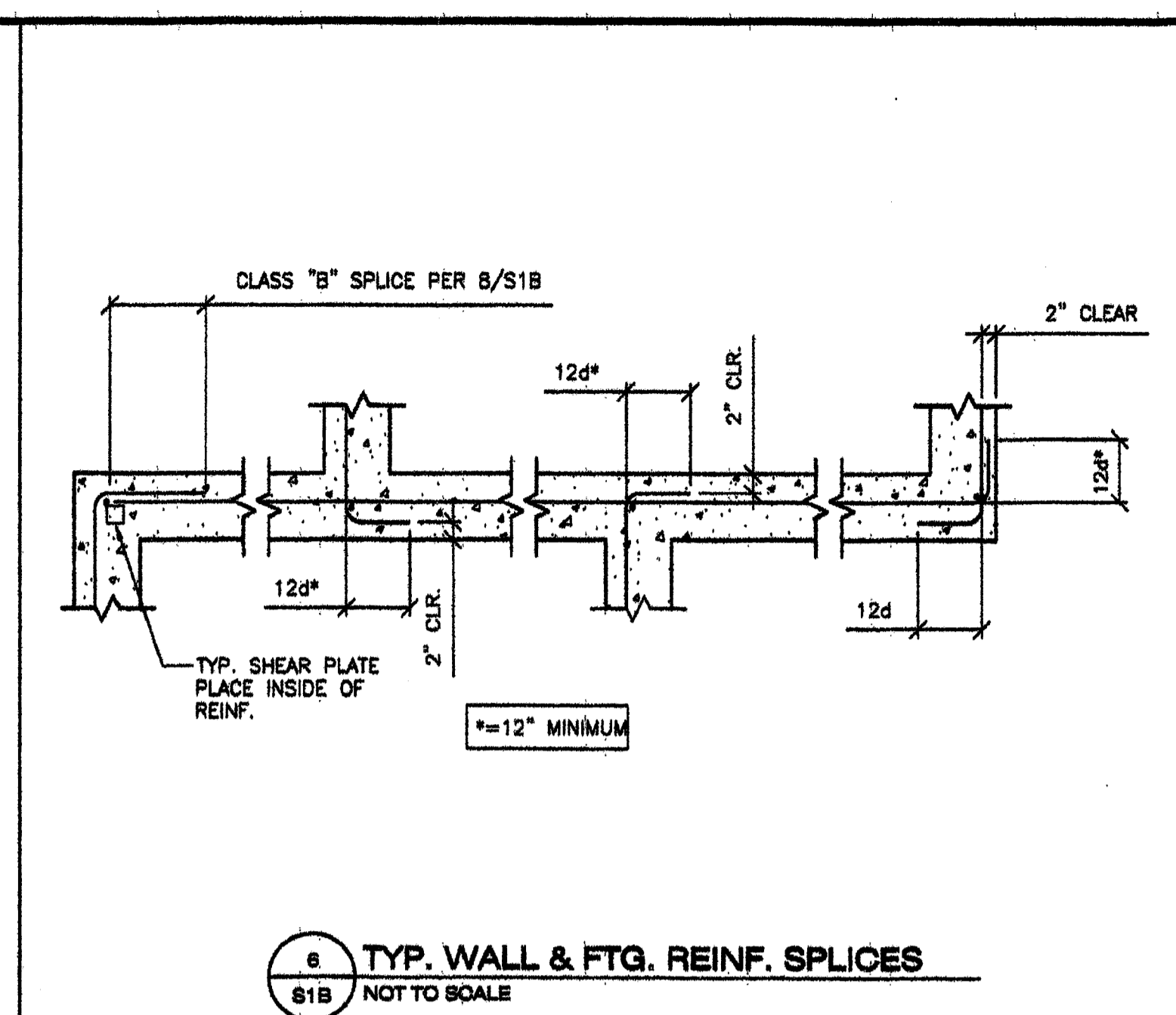
1 BELOW GRADE SECTION
 S1B 1 1/2"=1'-0"
 * COORDINATE WITH AMS PRIOR TO EXCAVATE



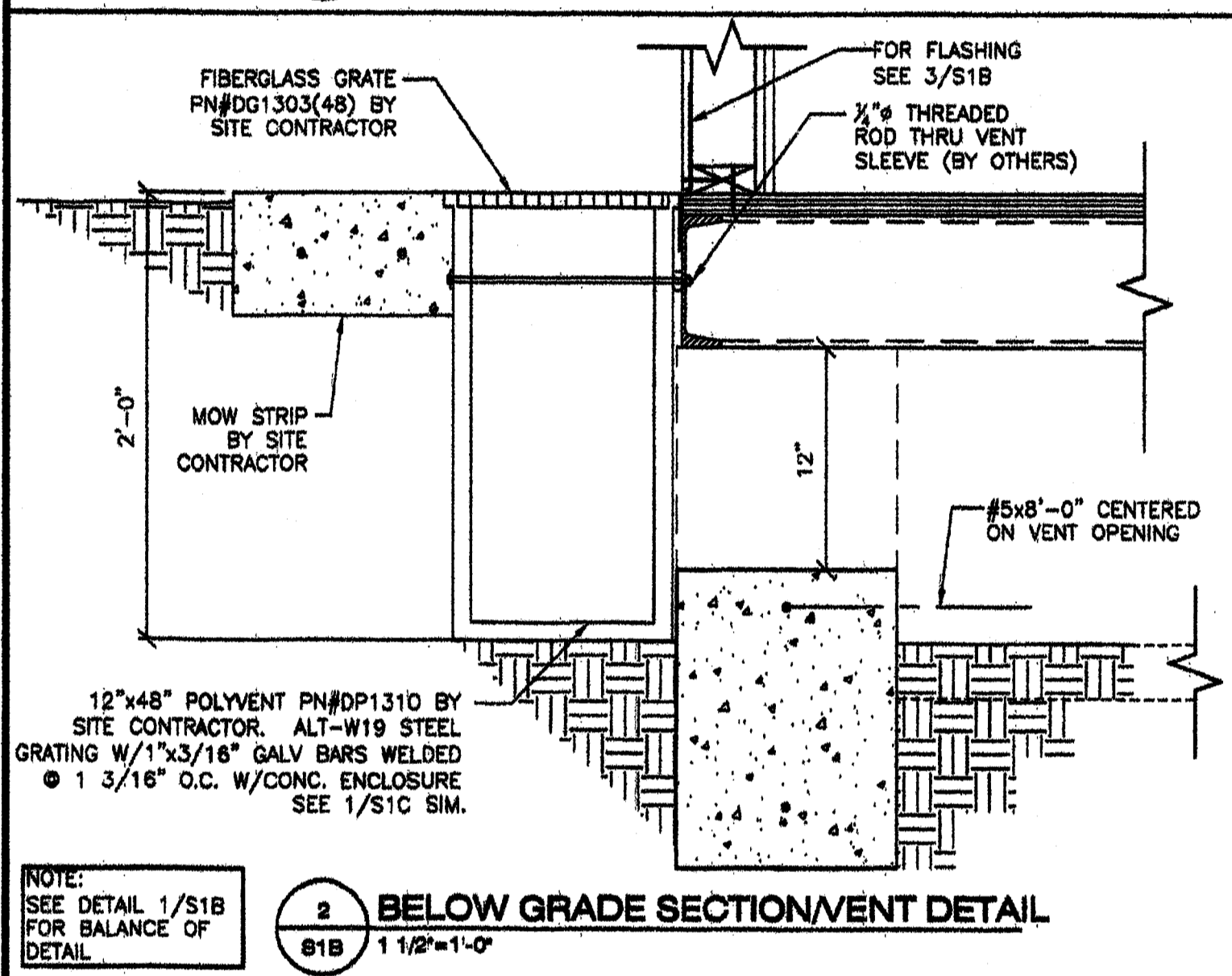
1A ABOVE GRADE SECTION
 S1B 1 1/2"=1'-0"
 * COORDINATE WITH AMS PRIOR TO EXCAVATE



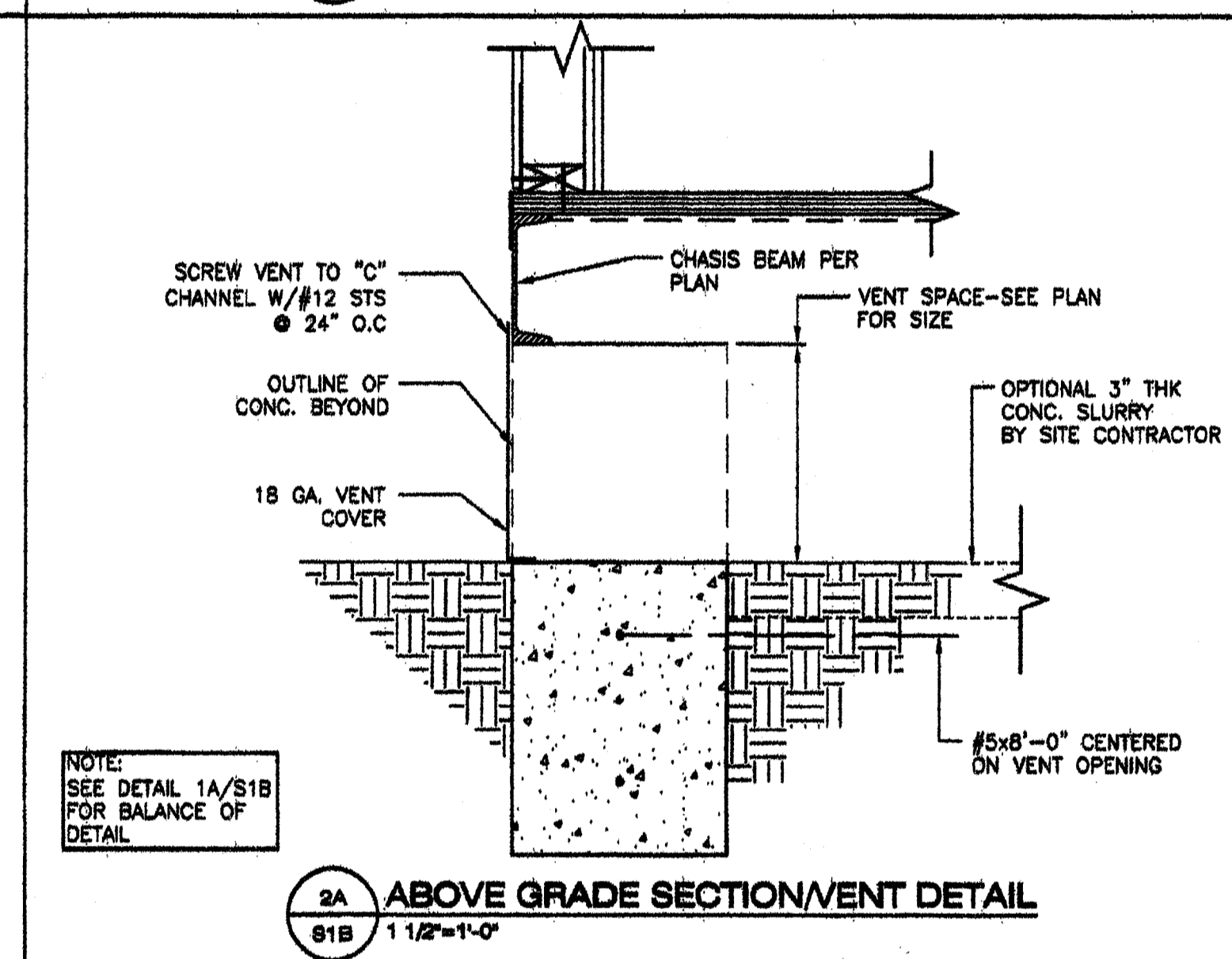
4 FILLER ACCESS HOLE DETAIL
 S1B 1 1/2"=1'-0"



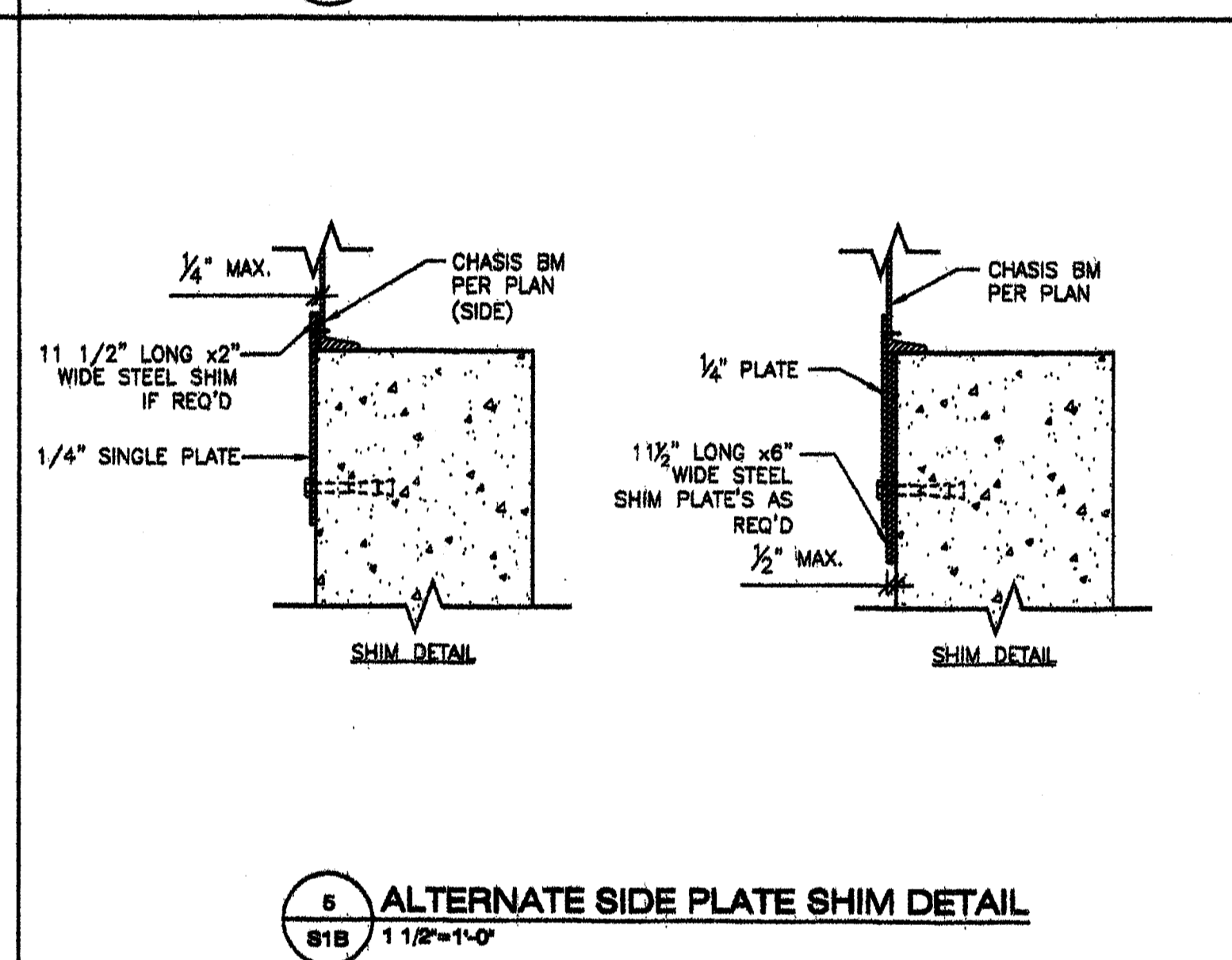
6 TYP. WALL & FTG. REINF. SPLICES
 S1B NOT TO SCALE



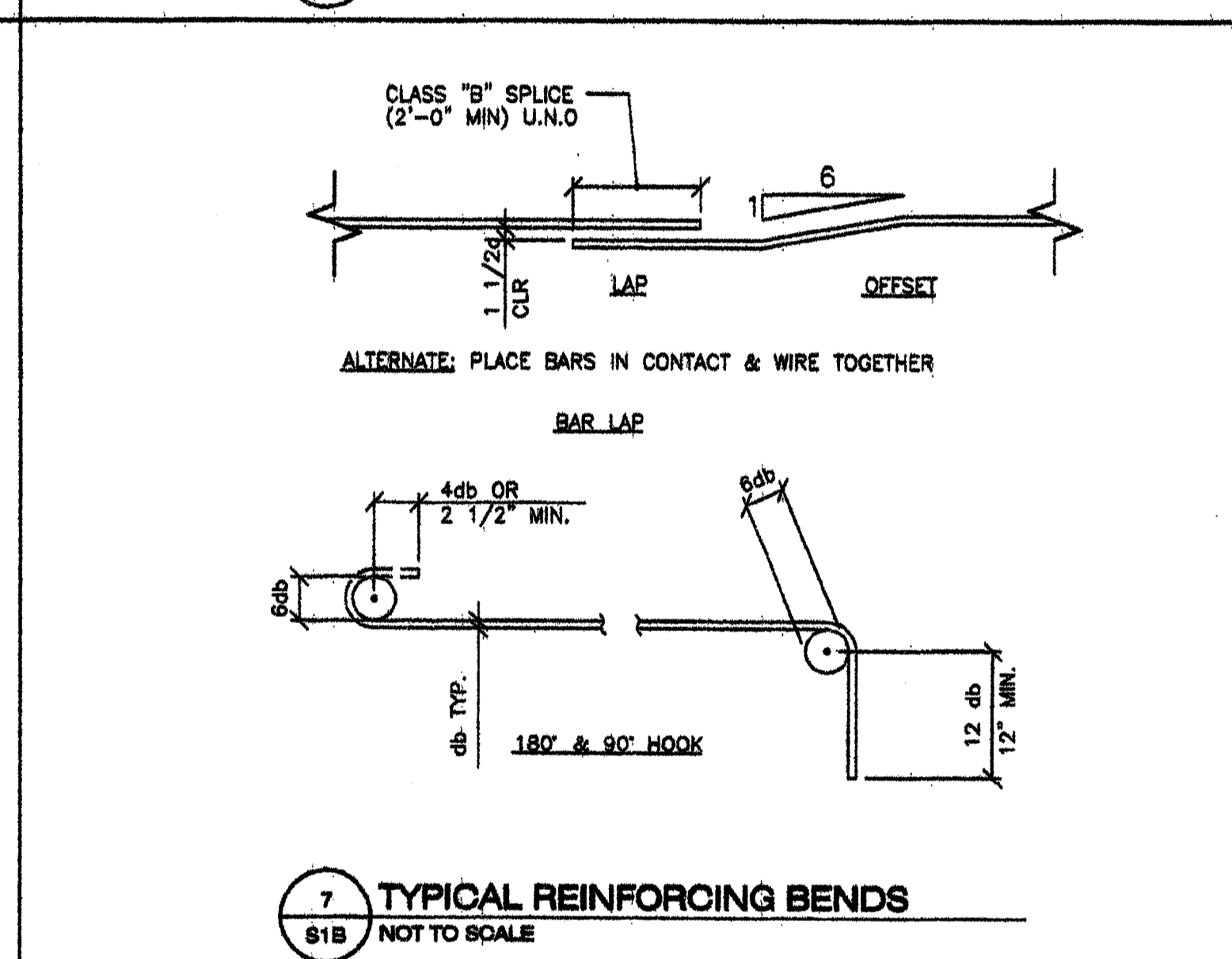
2 BELOW GRADE SECTION/VENT DETAIL
 S1B 1 1/2"=1'-0"



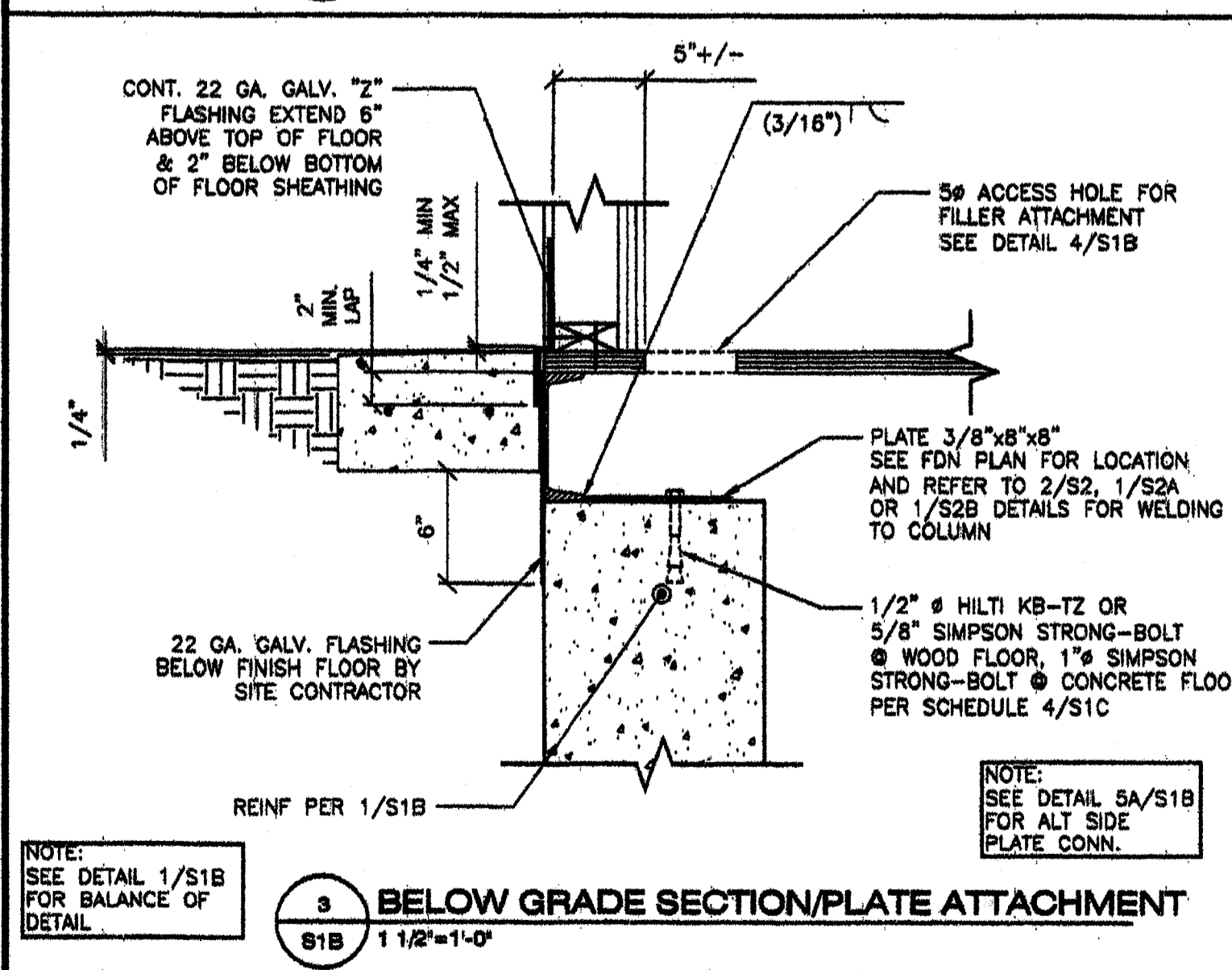
2A ABOVE GRADE SECTION/VENT DETAIL
 S1B 1 1/2"=1'-0"



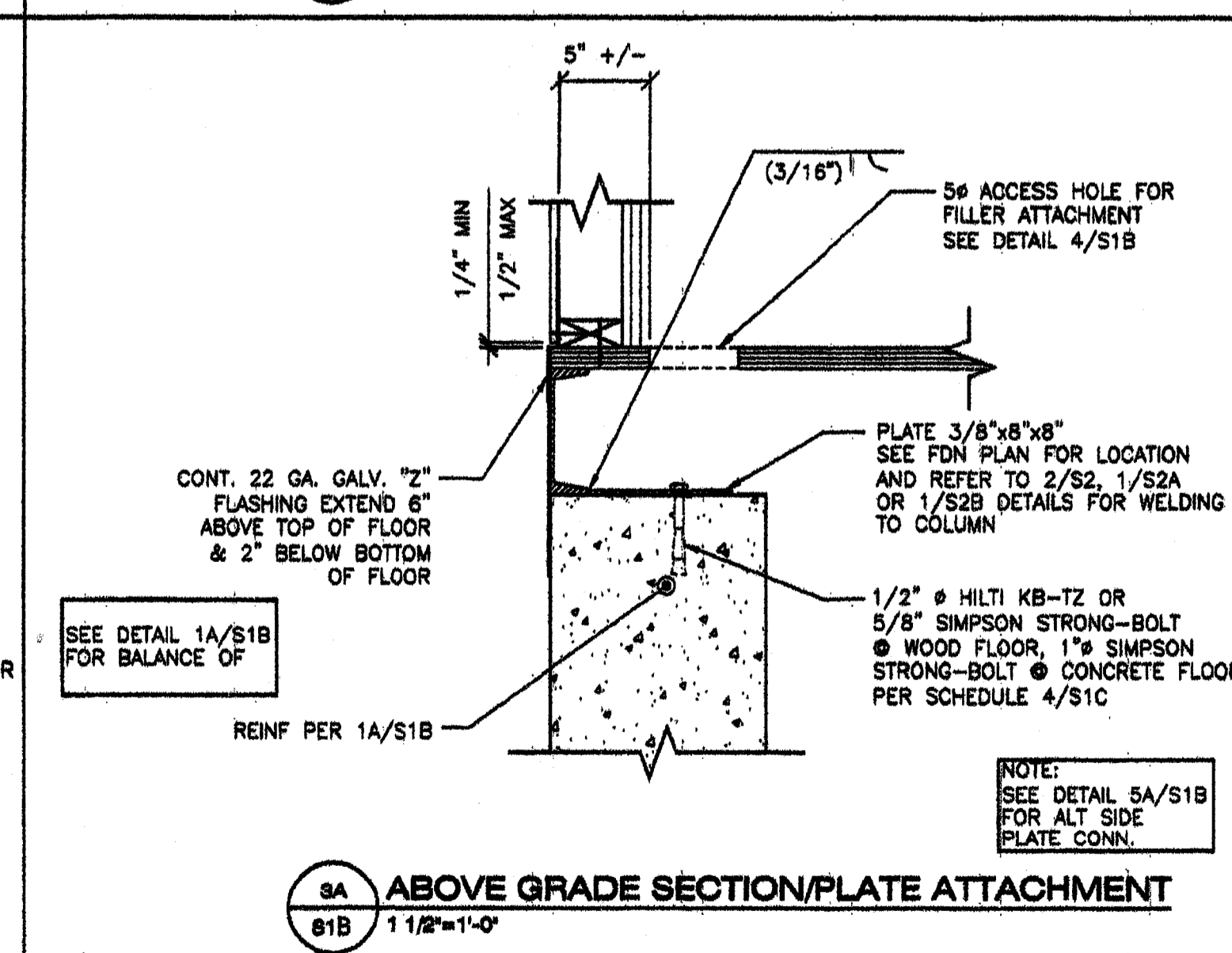
5 ALTERNATE SIDE PLATE SHIM DETAIL
 S1B 1 1/2"=1'-0"



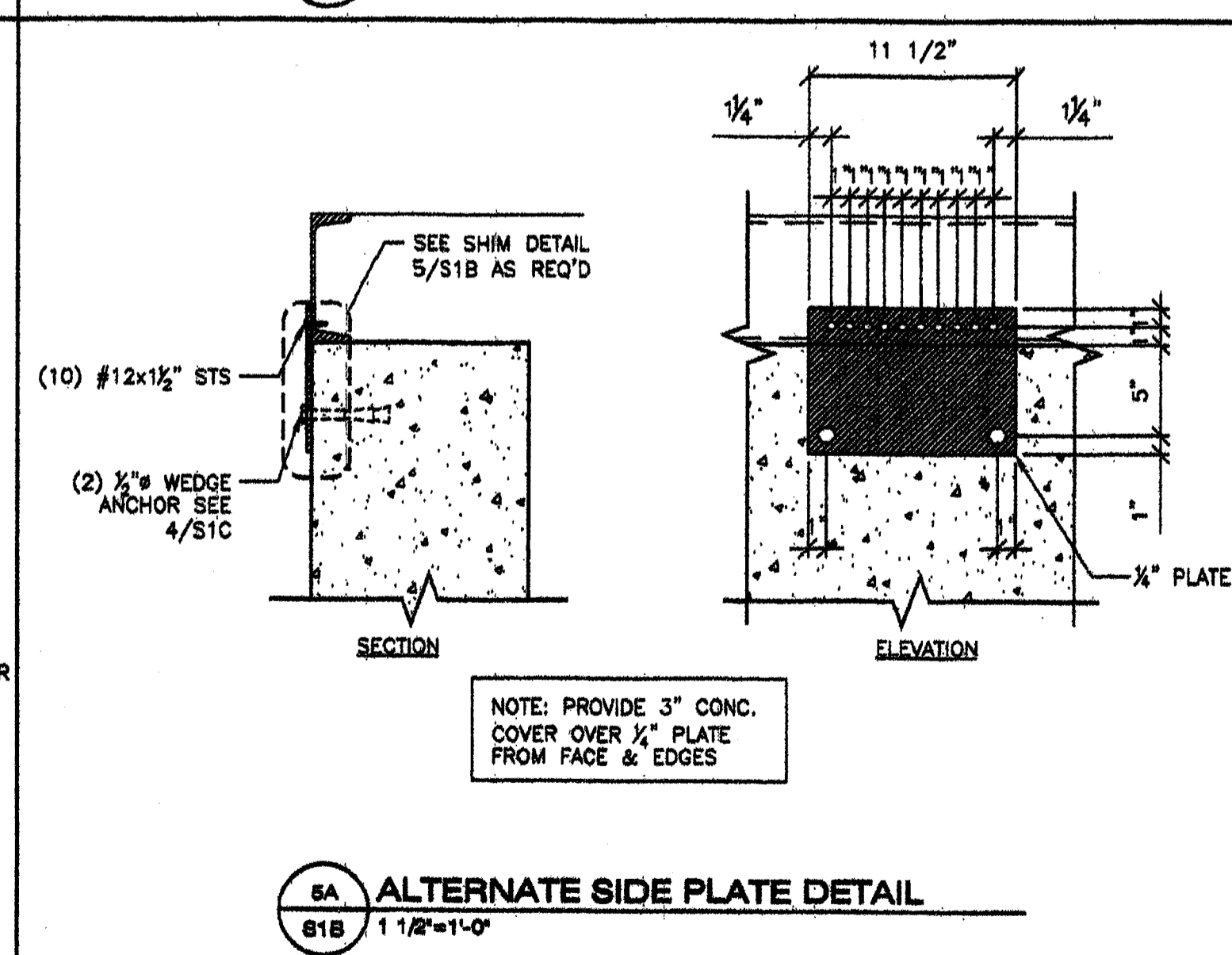
7 TYPICAL REINFORCING BENDS
 S1B NOT TO SCALE



3 BELOW GRADE SECTION/PLATE ATTACHMENT
 S1B 1 1/2"=1'-0"



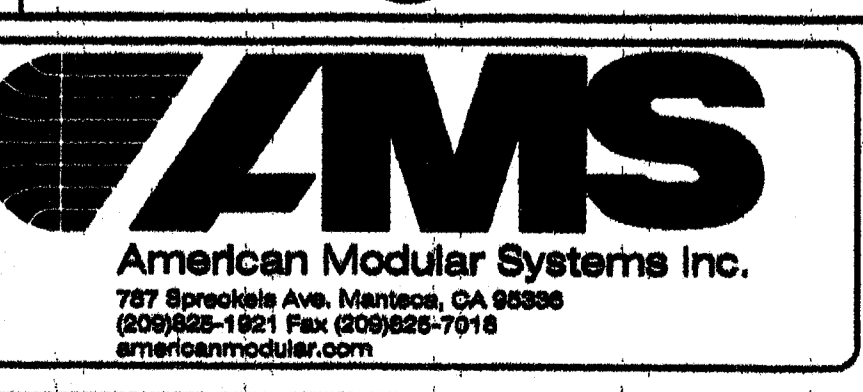
3A ABOVE GRADE SECTION/PLATE ATTACHMENT
 S1B 1 1/2"=1'-0"



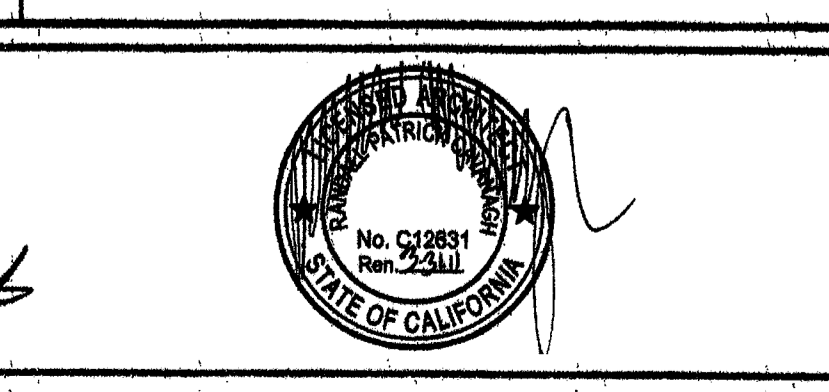
5A ALTERNATE SIDE PLATE DETAIL
 S1B 1 1/2"=1'-0"

REVISIONS		
NO.	DATE	DESCRIPTION

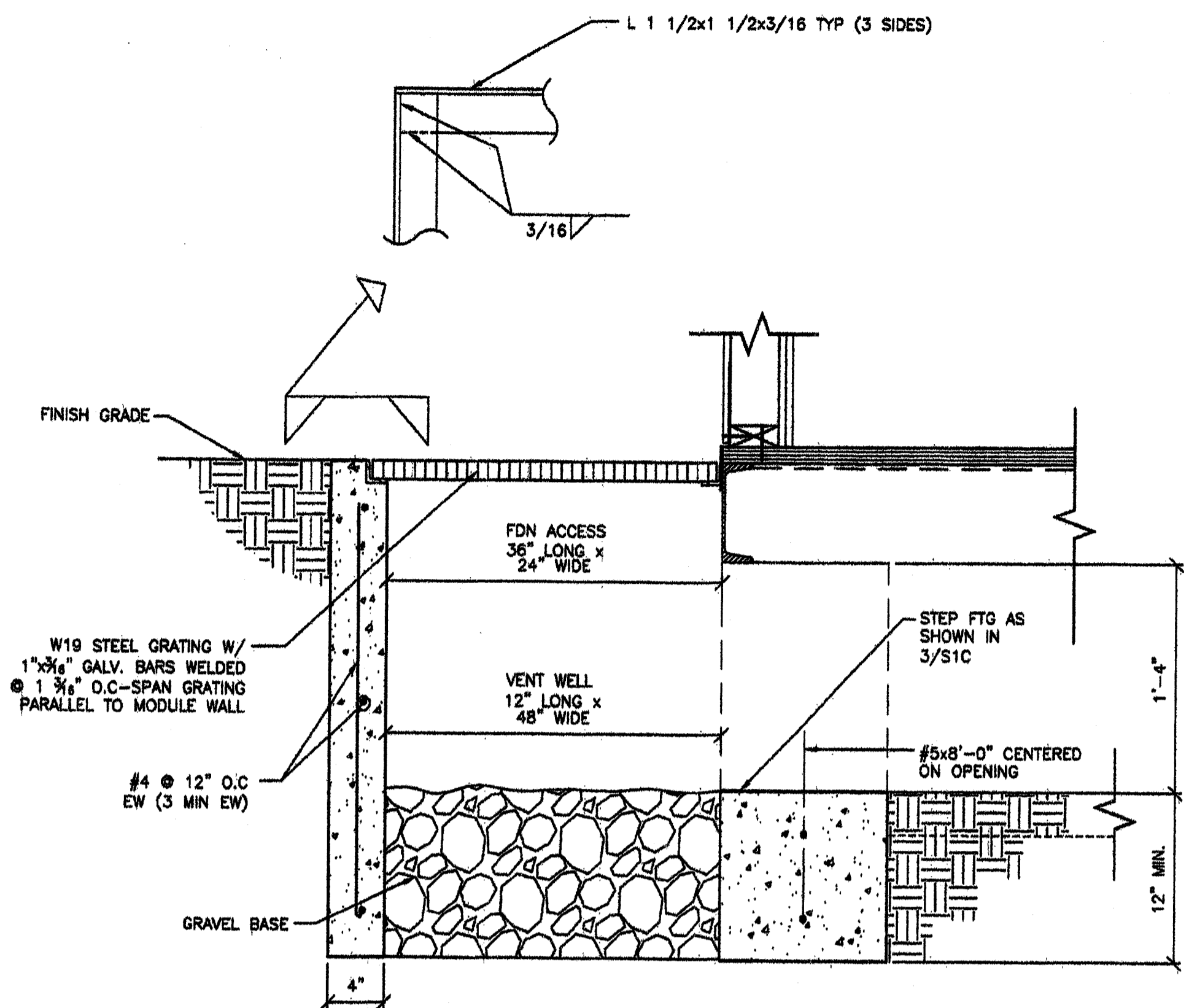
DATE: 02/21/08
 SCALE: NOTED
 DRAWN BY: DM
 SERIAL NO.:
 CUSTOMER:
 12' x 40' RELOCATABLE BUILDINGS
 CONCRETE FOUNDATION DETAILS



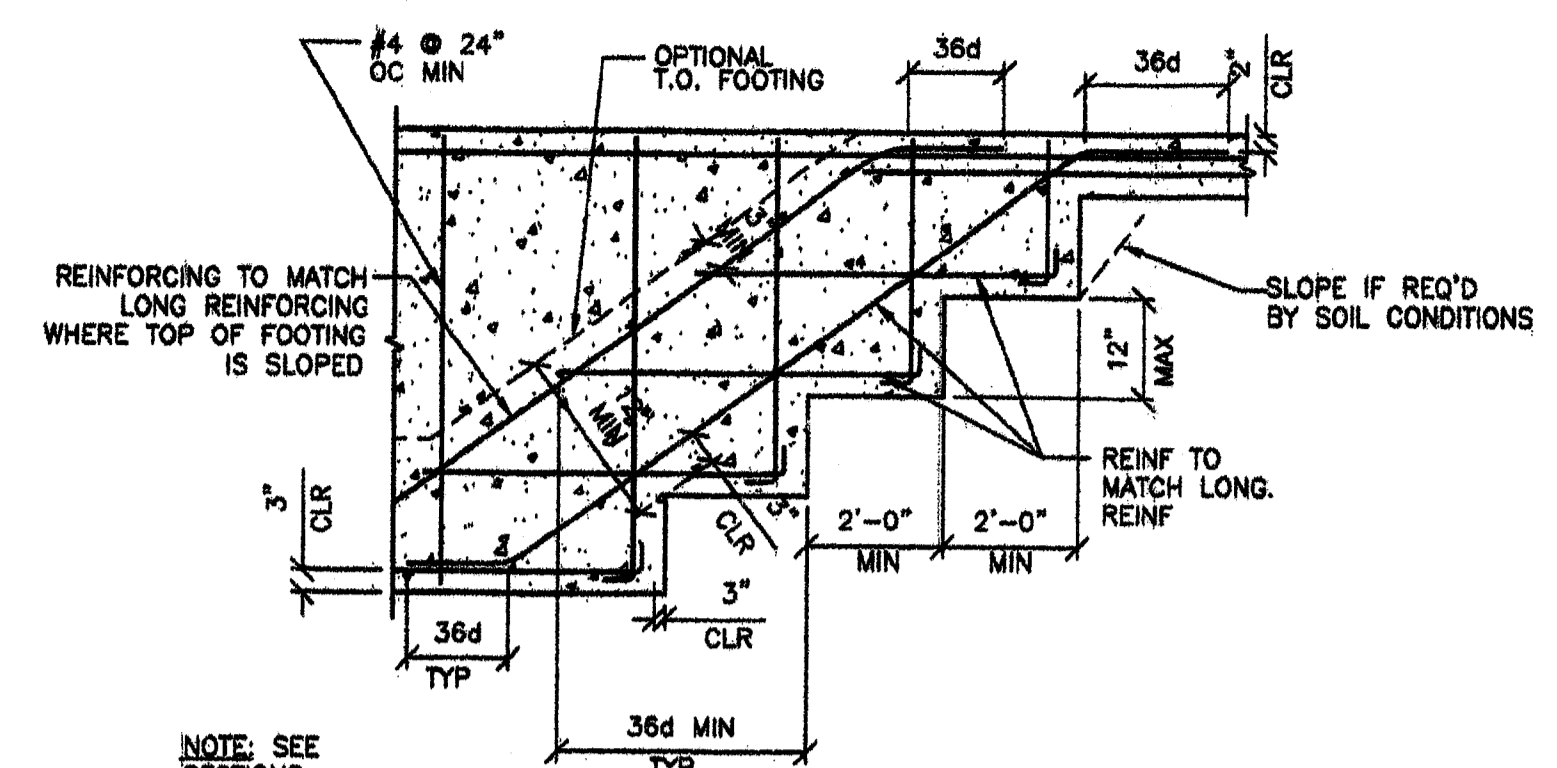
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 Kenneth A. Luttrell
 No. 0415
 Exp. 1-31-11
 Structural Engineer
 State of California



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S1B



1 OPTIONAL FOUNDATION ACCESS/VENT WELL
S1C 1 1/2\"/>



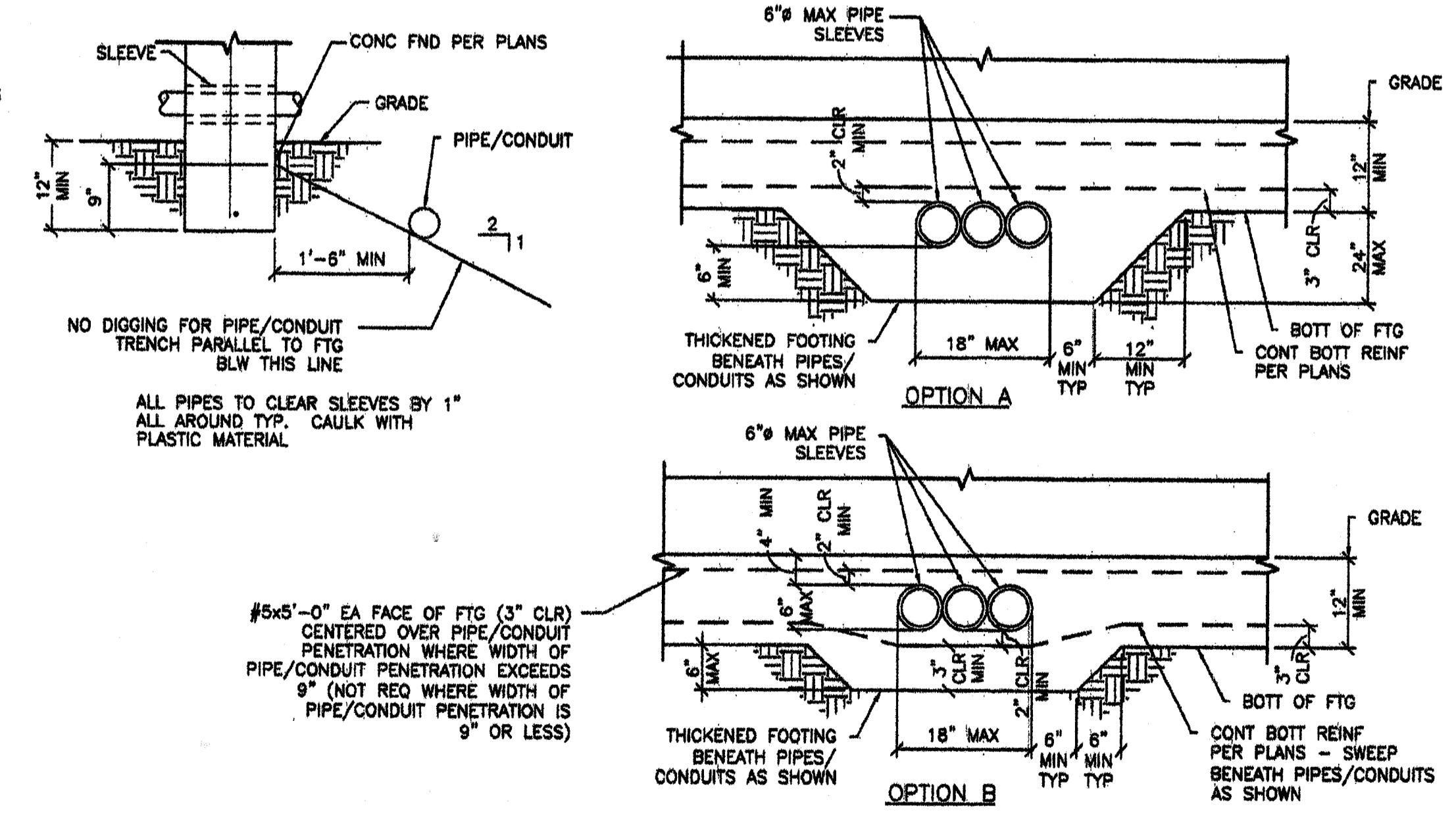
3 TYPICAL STEPPED FOOTING
S1C N.T.S.

ANCHOR TYPE	HILTI KWIK KB-TZ ICC ESR-1917			SIMPSON STRONG-BOLT ICC ESR-1771			
ANCHOR SIZE (IN)	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"	1"
MIN EMBED (IN)	4"	4 3/4"	5 3/4"	3 7/8"	5 1/8"	5 3/4"	5 1/4"
TENSION TEST LBS (SINGLE BOLT)	5121#	8040#	7917#	3826#	6732#	5454#	3550#
TENSION TEST LBS (DOUBLE BOLT)	5121#	6174#	5889#	3826#	5102#	4122#	N/A
INSTALLATION TORQUE (FT-LB)	40	60	110	50	85	180	230

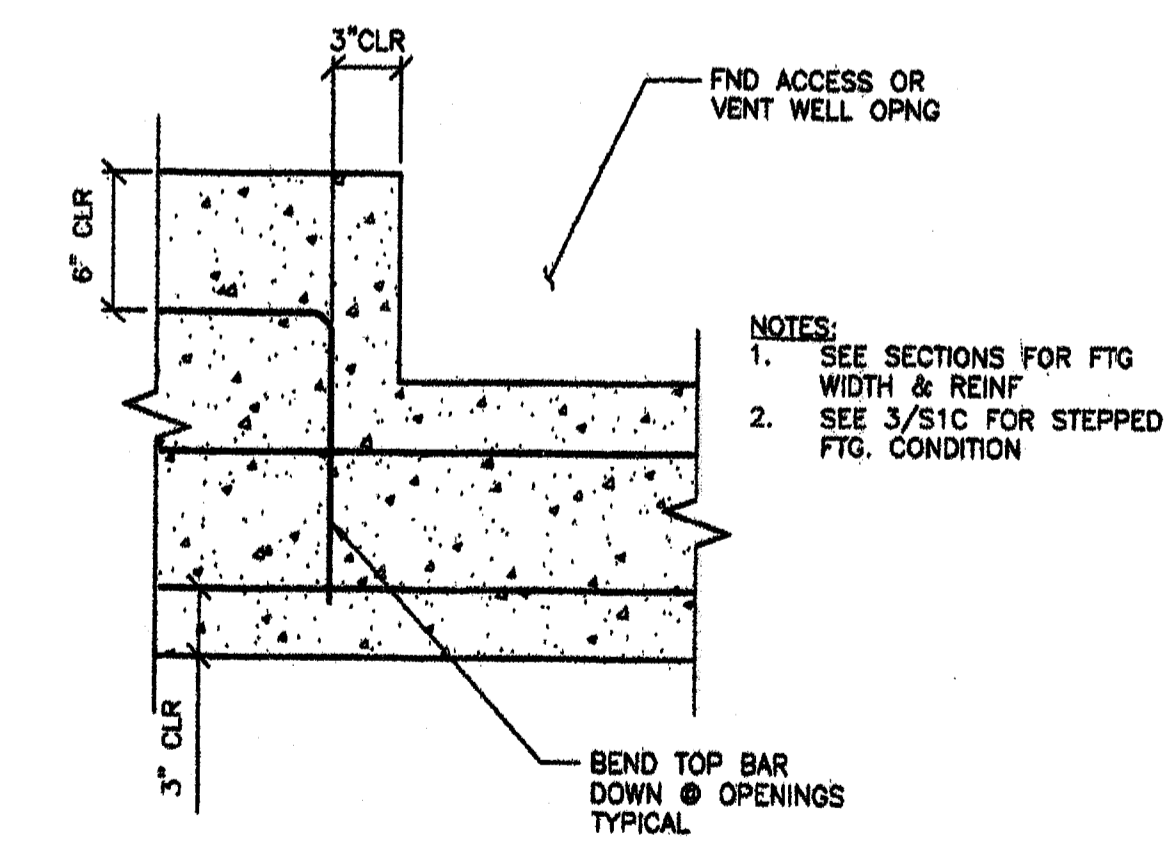
- TENSION TEST- 2 x ALLOWABLE TENSION LOAD PER DSA IR 19-1.
- NORMAL WEIGHT CONCRETE WITH $f'_c = 2500$ PSI TO COMPLY WITH 1916A.4 FOR MATERIAL TEST WAIVER.
- MINIMUM EDGE DISTANCE REQUIRED 6"

4 ANCHOR BOLT SCHEDULE
S1C N.T.S.

- NOTES:
- AS AN OPTION TO INDIVIDUAL PIPE SLEEVES THE FOOTING MAY BE BLOCKED OUT FOR MULTIPLE PIPES (8" HIGH x 18" WIDE MAX @ OPTION "A", 6" HIGH x 18" WIDE MAX @ OPTION "B") PROVIDE 1" MIN CLEARANCE ALL AROUND BTWN PIPES/CONDUITS & BLOCKOUT/SLEEVES & FILL W/ CAULK.
 - CONCRETE SHALL BE WELL CONSOLIDATED AROUND & UNDER PIPES, CONDUITS, SLEEVES, BLOCKOUTS TO PREVENT CONCRETE VOIDS.
 - PROVIDE 2" CLEAR MIN BETWEEN BLOCKOUT/SLEEVES AND REINFORCEMENT.
 - WHERE TOP OF PIPES/CONDUITS ARE 12" OR MORE BELOW THE BOTTOM OF THE FOOTING, THICKENED FOOTING AROUND PIPES/CONDUITS IS NOT REQUIRED. BACKFILL & COMPACT TO 95% OVER PIPES/CONDUITS PRIOR TO PLACING FOOTING.



2 PIPE SLEEVE DETAIL
S1C 1 1/2\"/>



5 VENT/ACCESS VENT OPENING DETAIL
S1C 1 1/2\"/>

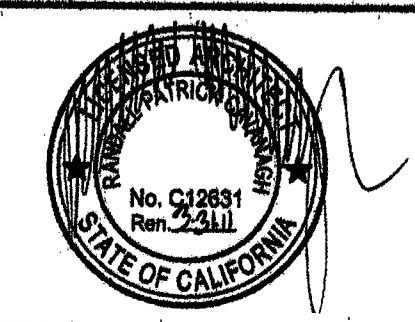
REVISIONS		
NO	DATE	DESCRIPTION

DATE: 02/21/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
**12 x 40' RELOCATABLE BUILDINGS
CONCRETE FOUNDATION DETAILS**

AMS
American Modular Systems Inc.
787 Spricklands Ave. Marietta, GA 30066
(203)823-1921 Fax (203)823-7018
americanmodular.com

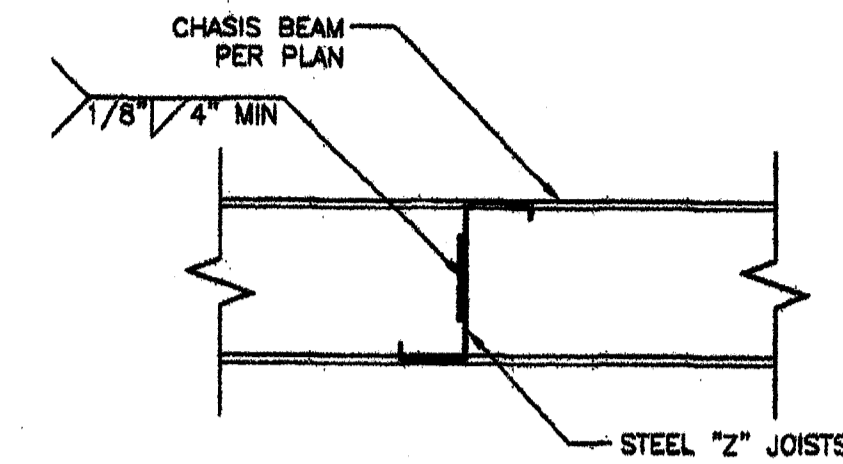
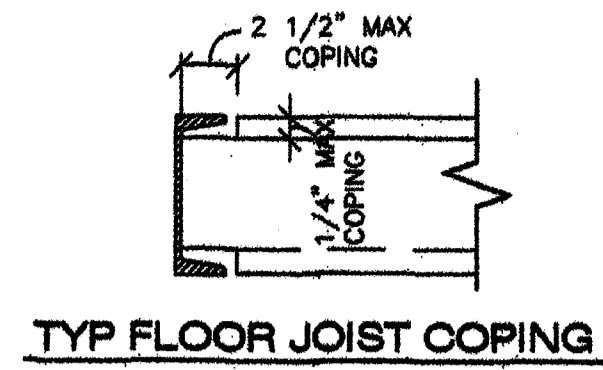
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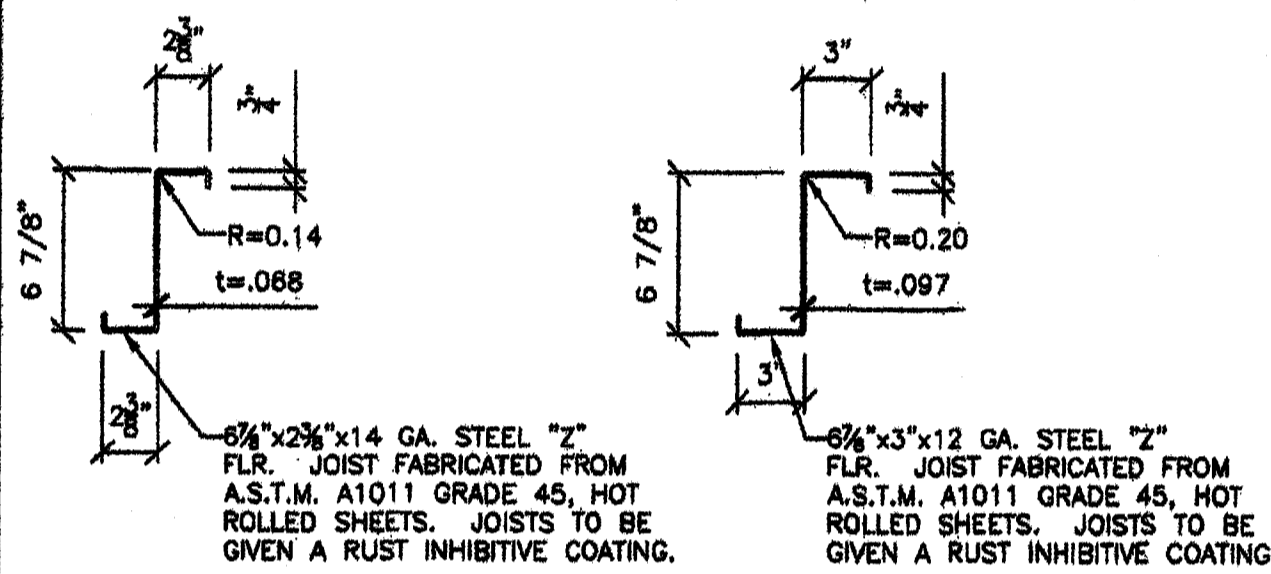
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02 111612
AC: FLS-SS-GR
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PROJECT NO.
S1C

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1 TYP. Z-JOIST ATTACHMENT TO BEAM
82 1 1/2"=1'-0"



14 GA. JOIST

12 GA. JOIST

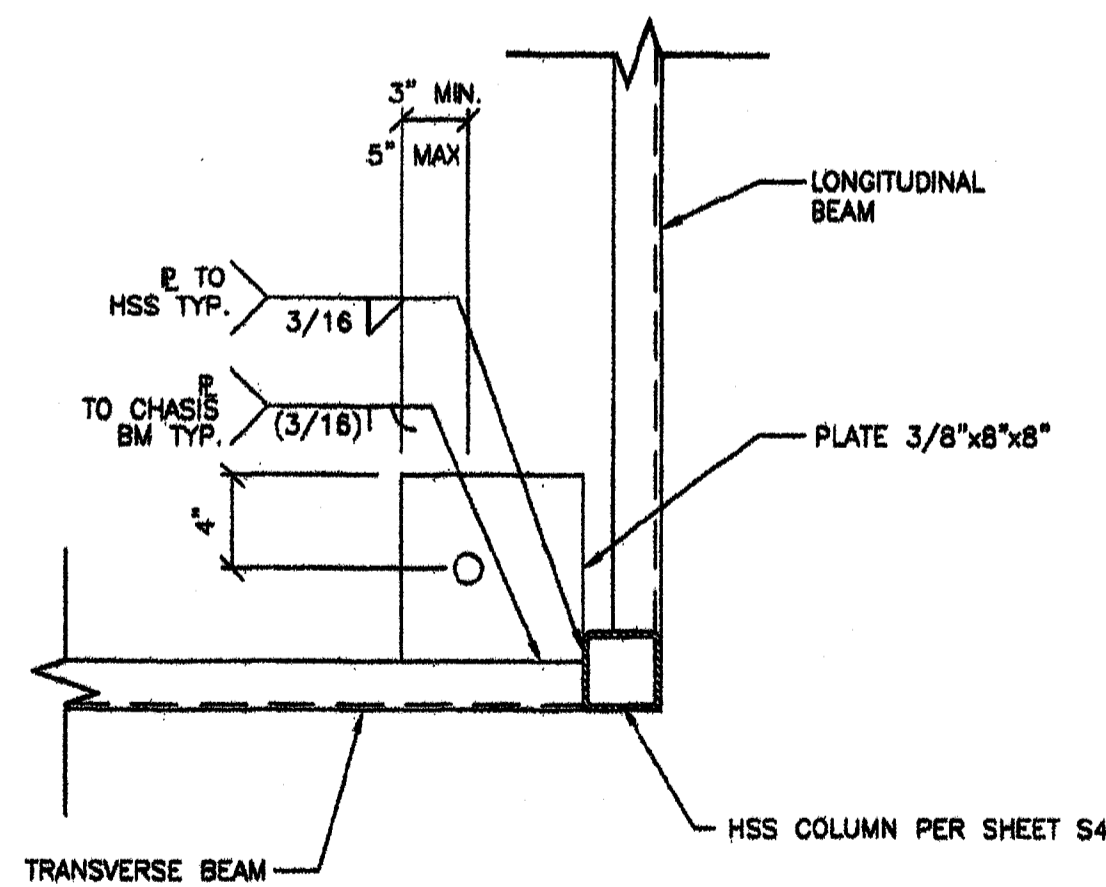
Z SECTION PROPERTIES

A=0.89 IN.²
S_x=1.85 IN.³
I_x=8.37 IN.⁴

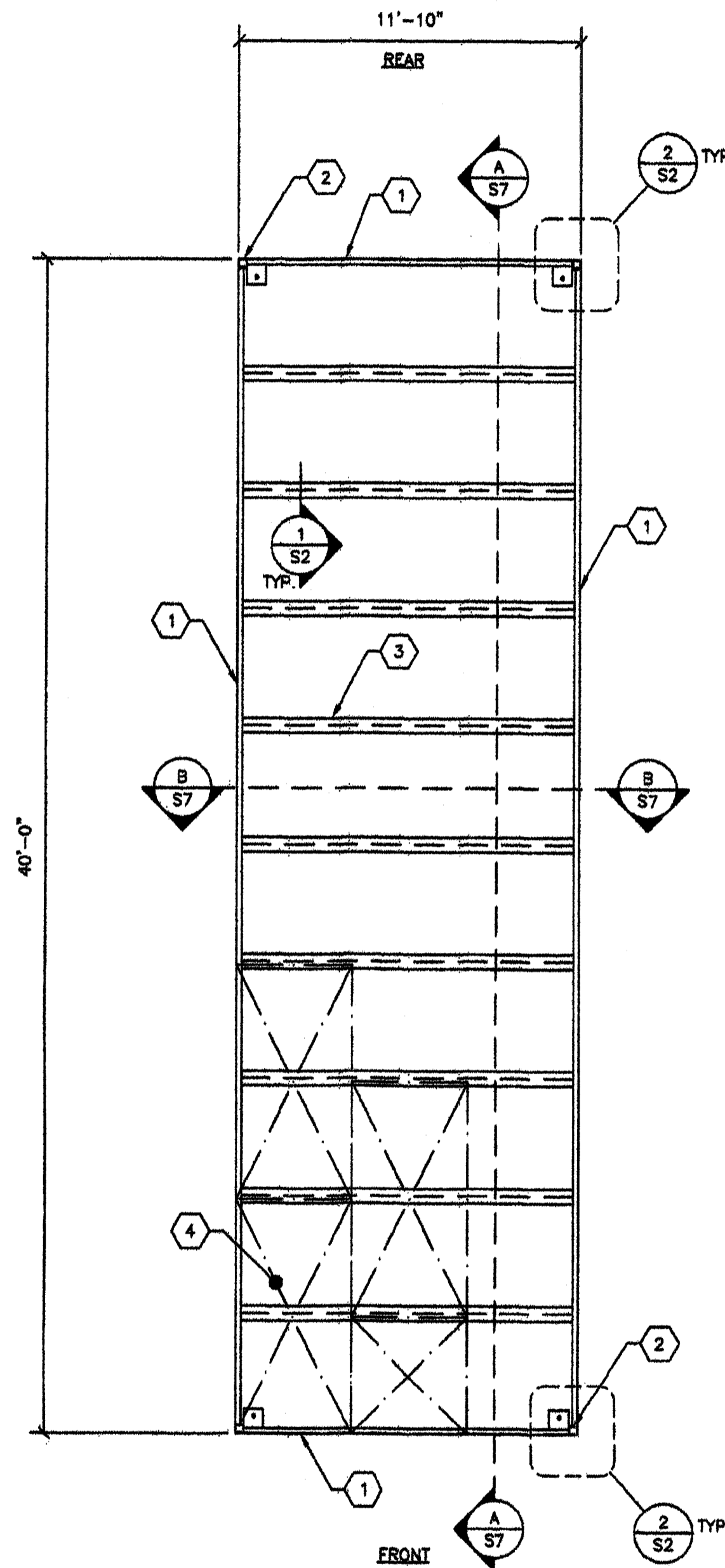
Z SECTION PROPERTIES

A=1.38 IN.²
S_x=2.97 IN.³
I_x=10.20 IN.⁴

1A TYP. Z-JOISTS
82 1 1/2"=1'-0"



2 TYP. FL. BEAM CONNECTION
82 1 1/2"=1'-0"



A TYPICAL FLOOR FRAMING PLAN
82 1/4"=1'-0" PLYWOOD FLOOR

- KEY NOTES -

- 1 C 7x9.8 FLOOR BEAM FOR 50 PSF+15 PSF ALTERNATE C10x15.3 C 9x13.4 FOR 125 PSF
- 2 HSS COLUMN PER SHHET S4
- 3 FLOOR JOIST PER SCHEDULE (SEE 1A/S2)

LIVE LOAD PSF	FLOOR JOIST SCHEDULE	
	SPACING	
50 + 15	14 GA. JOIST	12 GA. JOIST
125	24" O.C.	48" O.C.
		24" O.C.

- 4 1 1/8" T&G PLYWOOD FLOOR SH'T'G STURDI-FLOOR 48" O.C SPAN RATING EXP. 1 CONFORMING TO PS 1-95 OPTION: UNI-FLOOR BY PITTSBURGH TESTING LAB CONFORMING TO PS 1-95. STAGGER SHEETS 48" O.C AS SHOWN W/ FACE GRAIN NORMAL TO FLOOR JOISTS. FASTENING: BOUNDARY OF EA. MODULE: #12x2 1/4" WOOD TEK @ CHANNEL @ 6" O.C PANEL EDGES: ET&F 0.144"x2" MIN. POWER DRIVEN PINS @ 6" O.C FIELD: ET&F 0.144"x2" MIN. POWER DRIVEN PINS @ 10" O.C.
NOTE: SEE ICC ER-4144 FOR ET&F BRAND PNEUMATIC PINS.

- GENERAL NOTES -

1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.

REVISIONS		
NO.	DATE	DESCRIPTION

DATE: 02/21/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

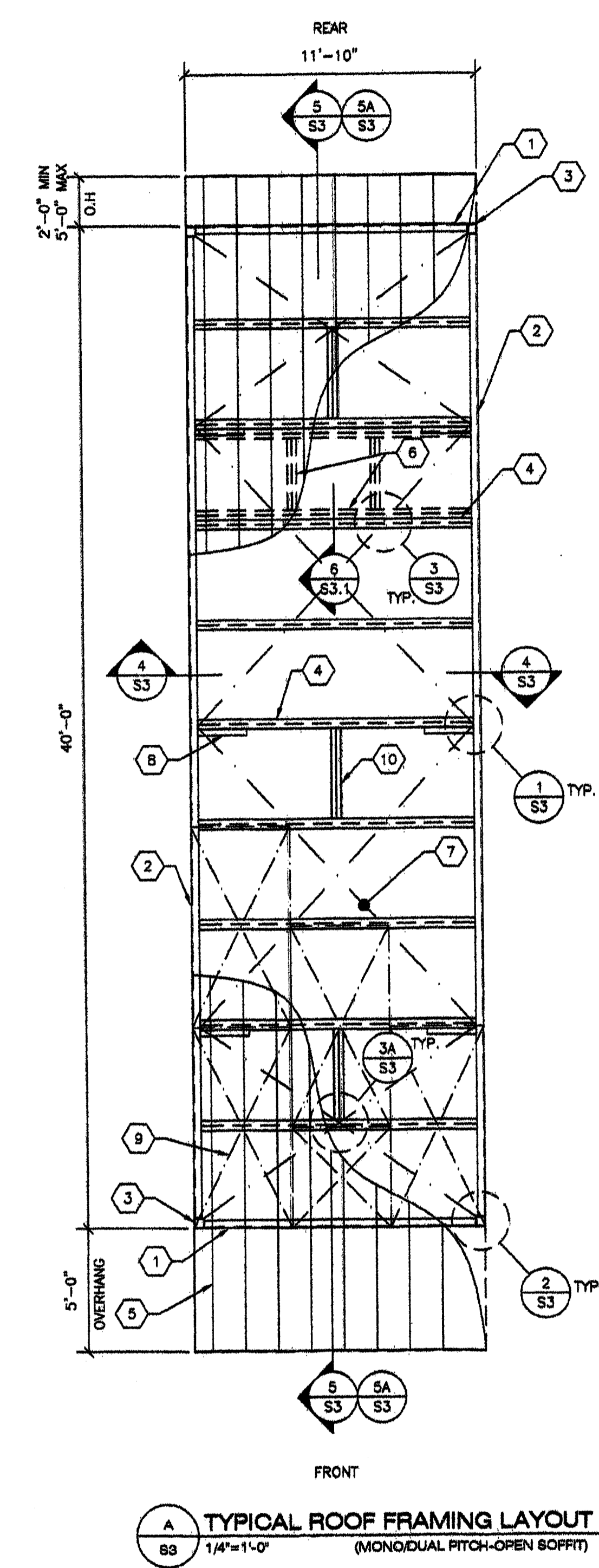
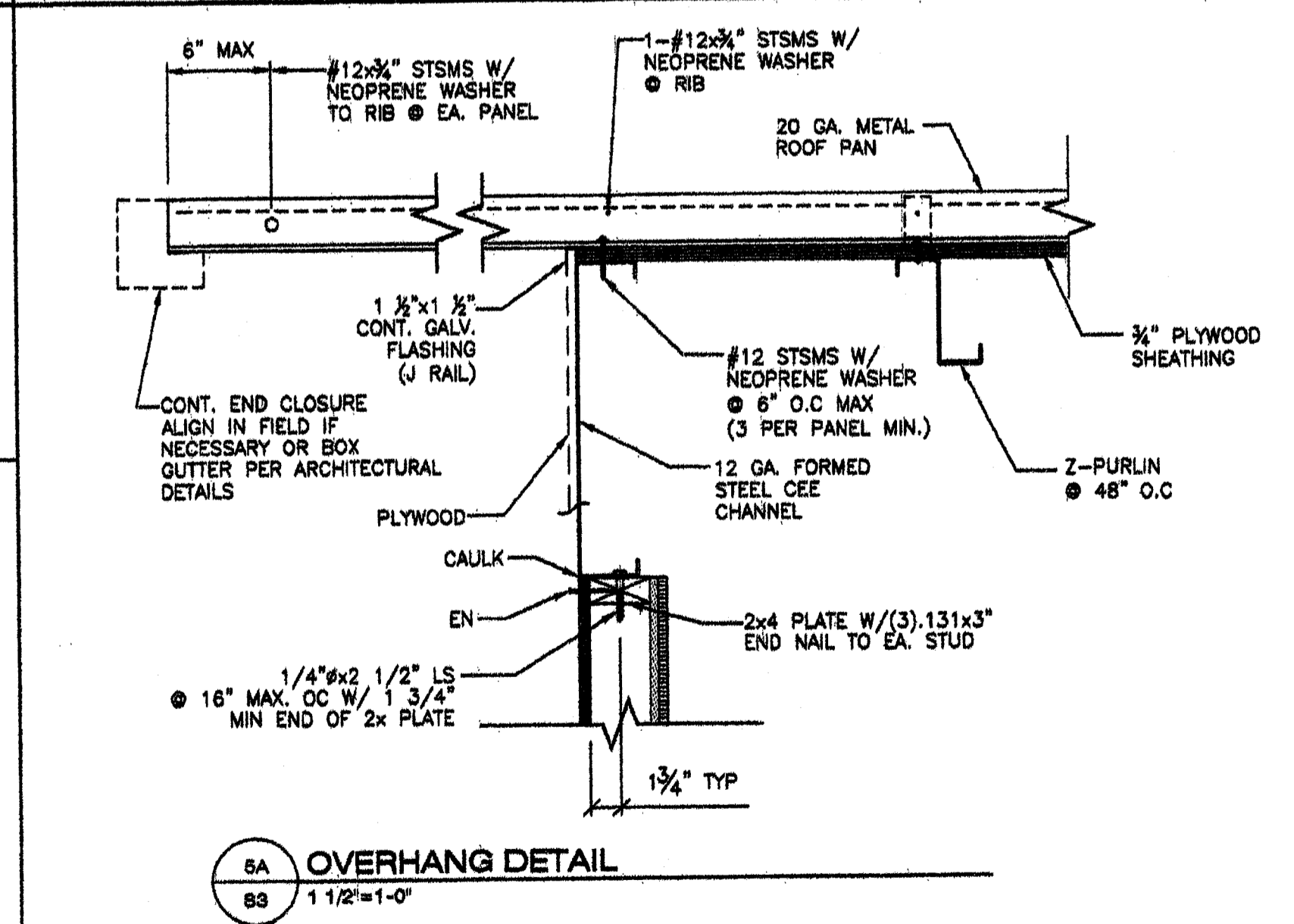
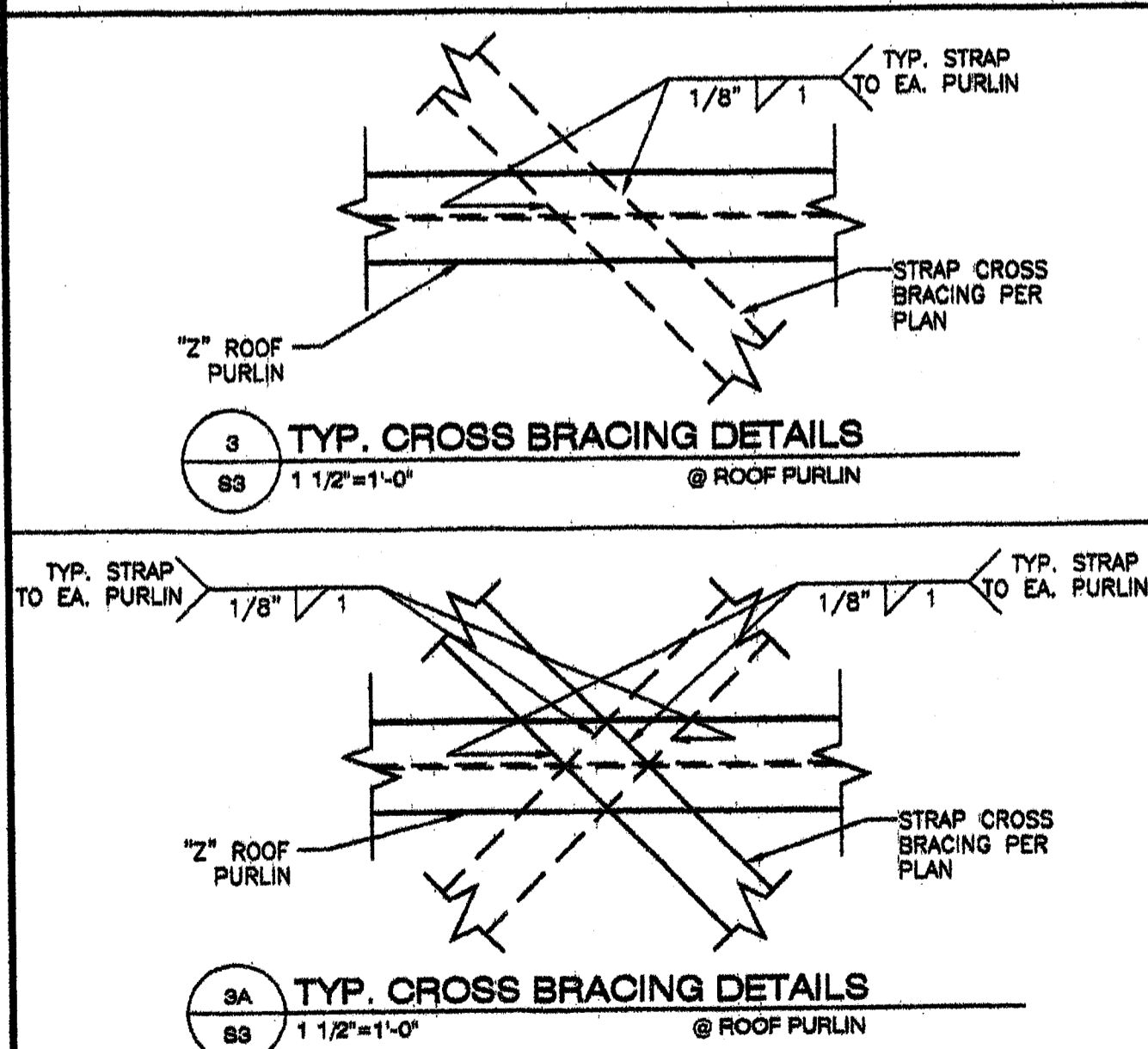
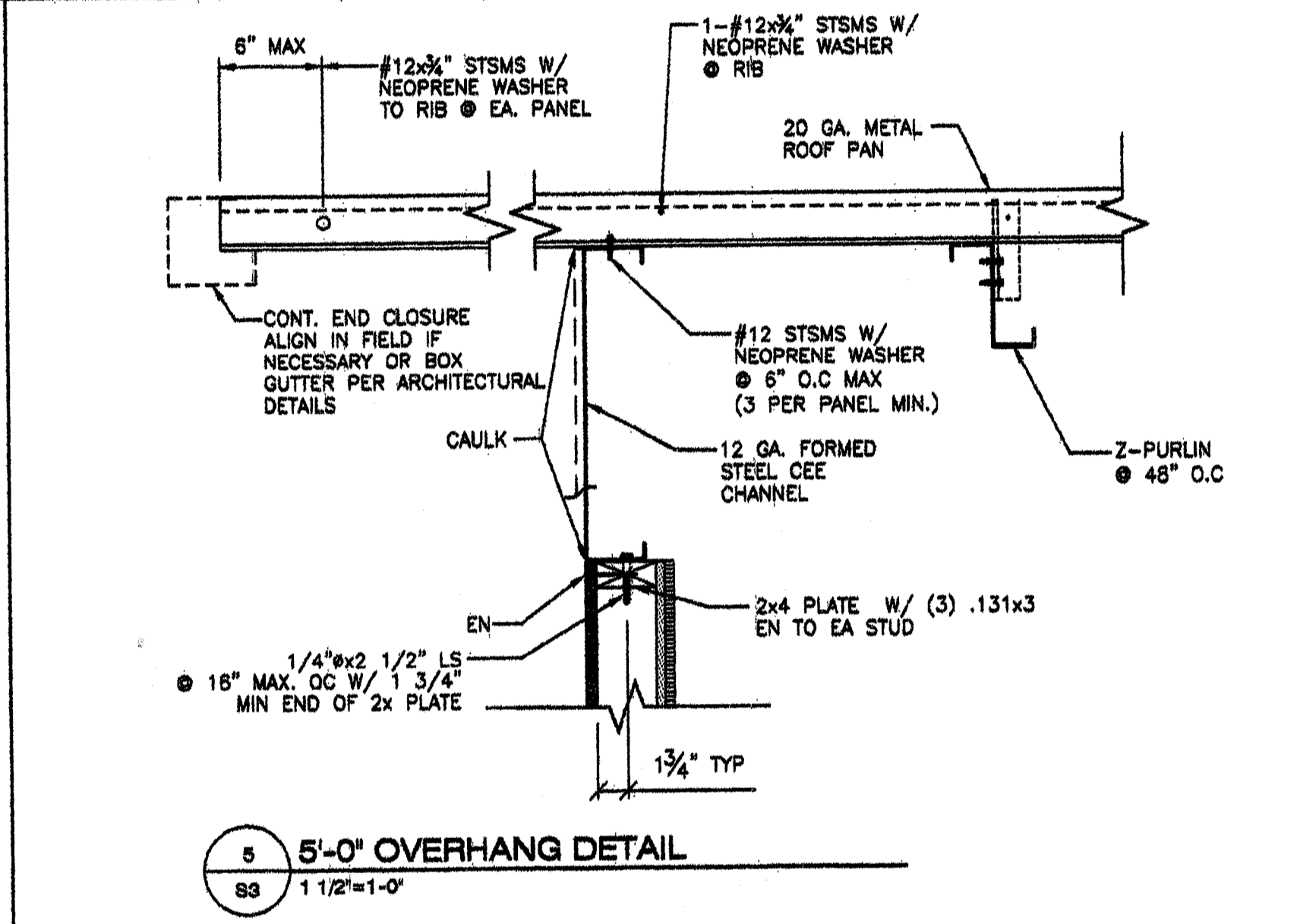
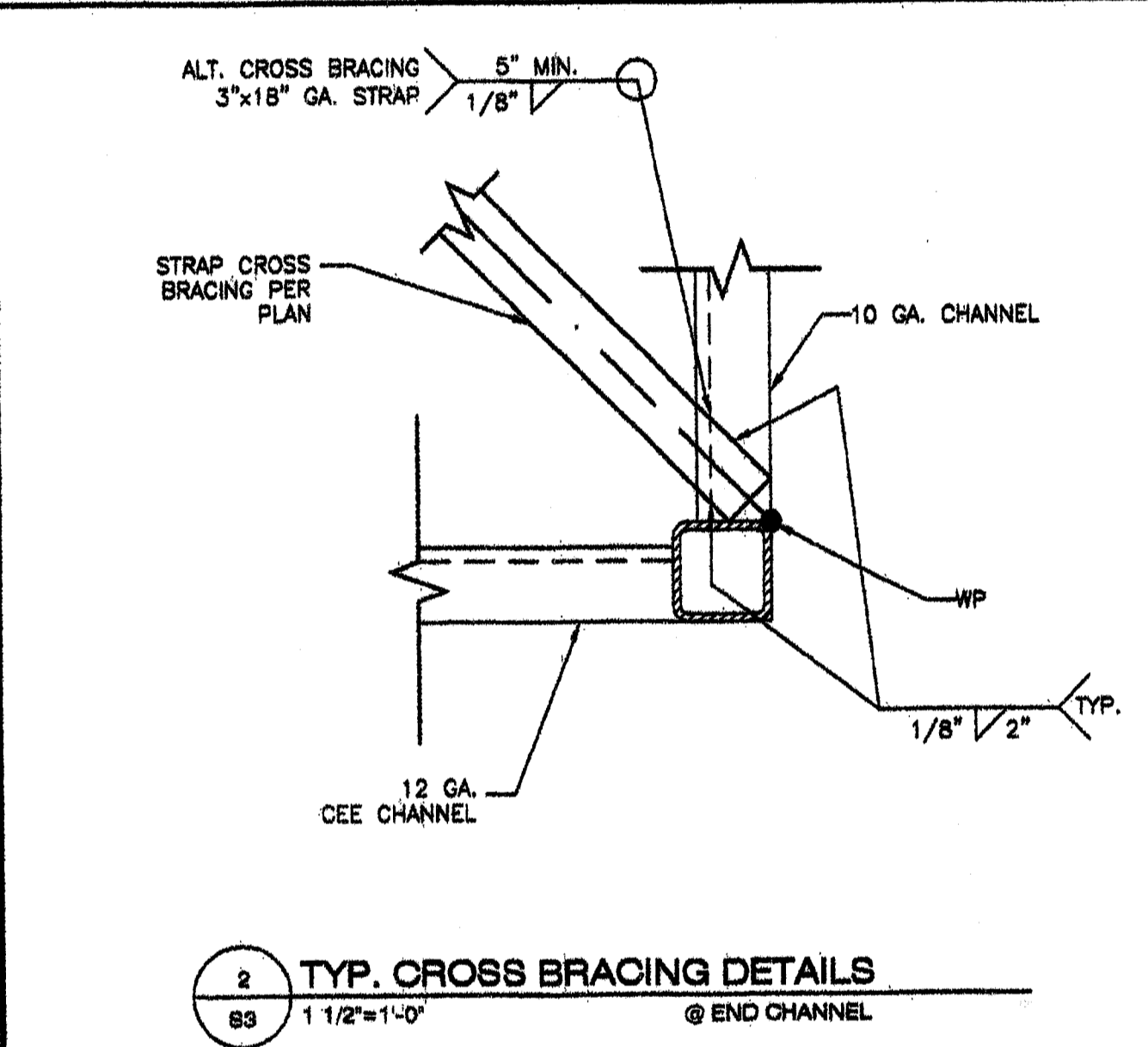
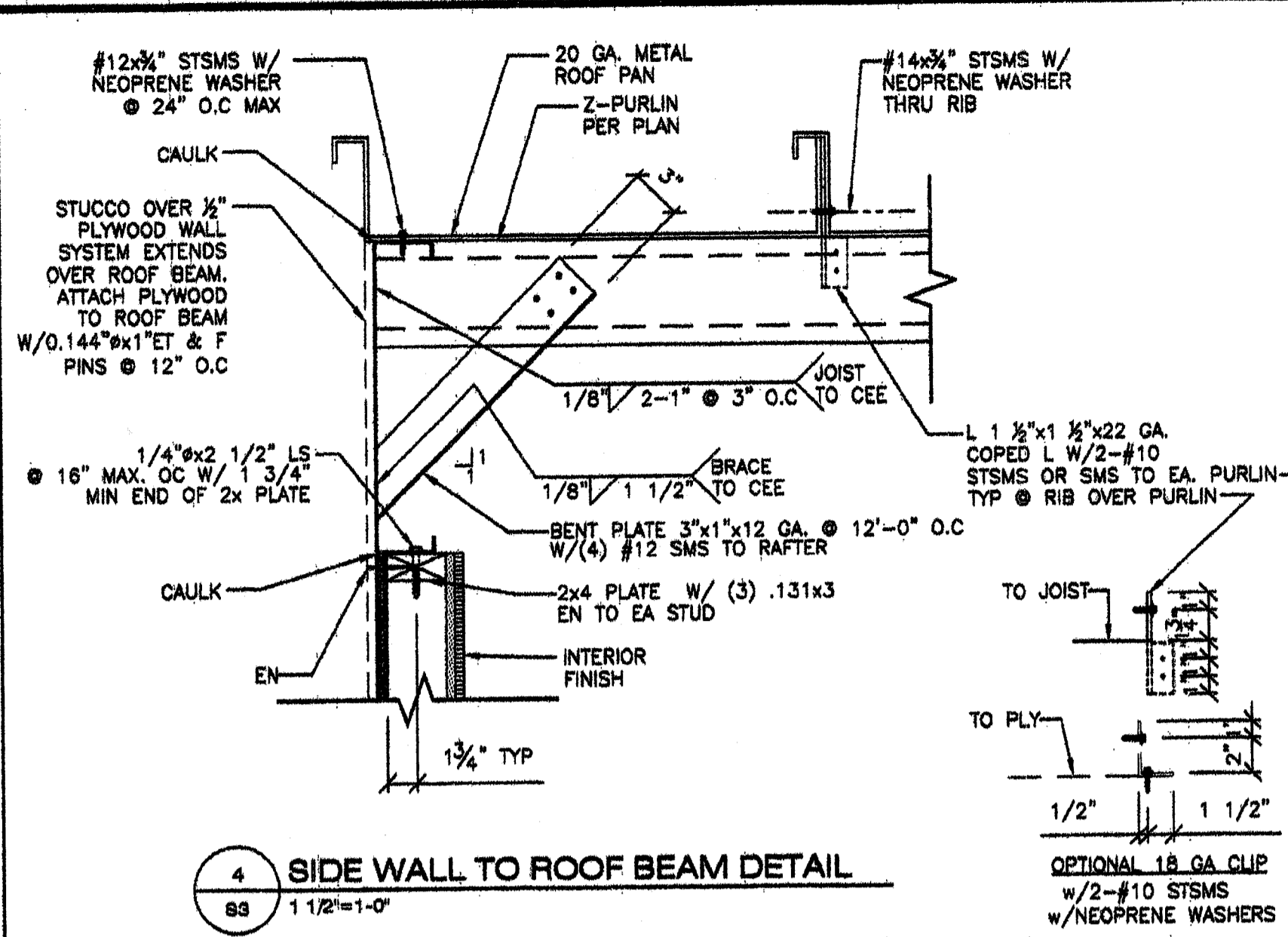
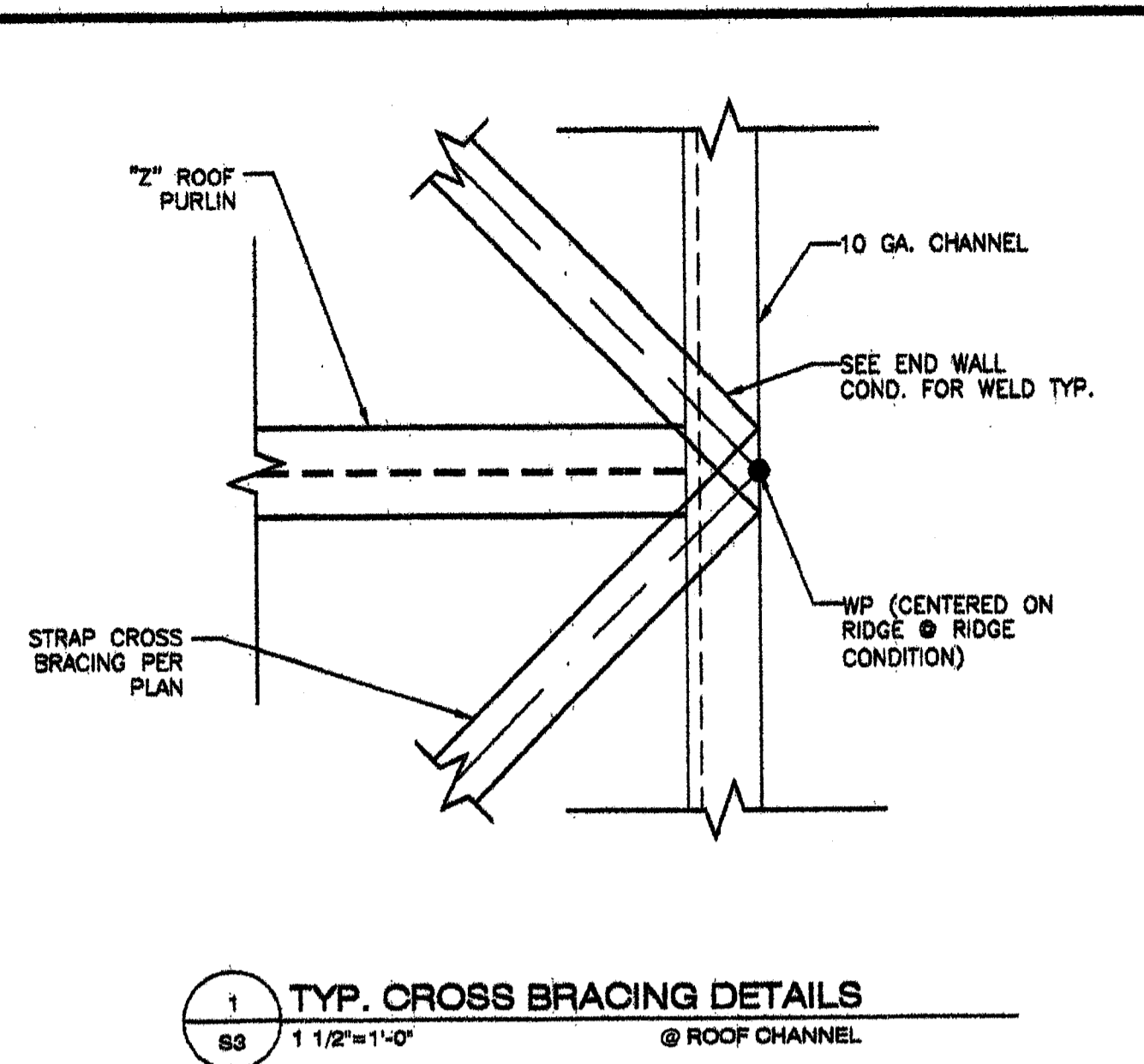
CUSTOMER:
12' x 40' RELOCATABLE BUILDINGS
FLOOR FRAMING PLAN & DETAILS (PLYWOOD OPTION)



APPROVALS:
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Professional Engineer Seal: Kenneth A. Luttrell, No. 5498, Exp. 5-31-11, Structural Engineer, State of California.

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AC - RLS - SG GR
DATE 1/12/11

PROJECT No.
S2



- KEY NOTES -**
- 12 GA. TRANSVERSE BEAM PER 10/S3.1
 - LONGITUDINAL ROOF CHANNEL TYP. PER 9/S3.1
 - HSS COLUMN PER SHEET S4
 - 2\"/>

FASTENING SCHEDULE

NAILING	0.144 PINS SPACING		# 10 SMS SPACING	
	TYPICAL	WITHIN 3' OF BUILDING CORNERS	TYPICAL	WITHIN 3' OF BUILDING CORNERS
BOUNDARY	6\"/>			

ET & F 0.144 PINS PER ICC ESR #4144

- GENERAL NOTES -**
1. THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
 2. SEE SHEET S5 FOR TYP. SIDE WALL FRAMING.
 3. SEE SHEET S5 FOR TYP. END WALL FRAMING.
 4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED W/NEOPRENE WASHERS.

REVISIONS

NO.	DATE	DESCRIPTION

DATE: 02/25/08
 SCALE: NOTED
 DRAWN BY: DM
 SERIAL NO.:

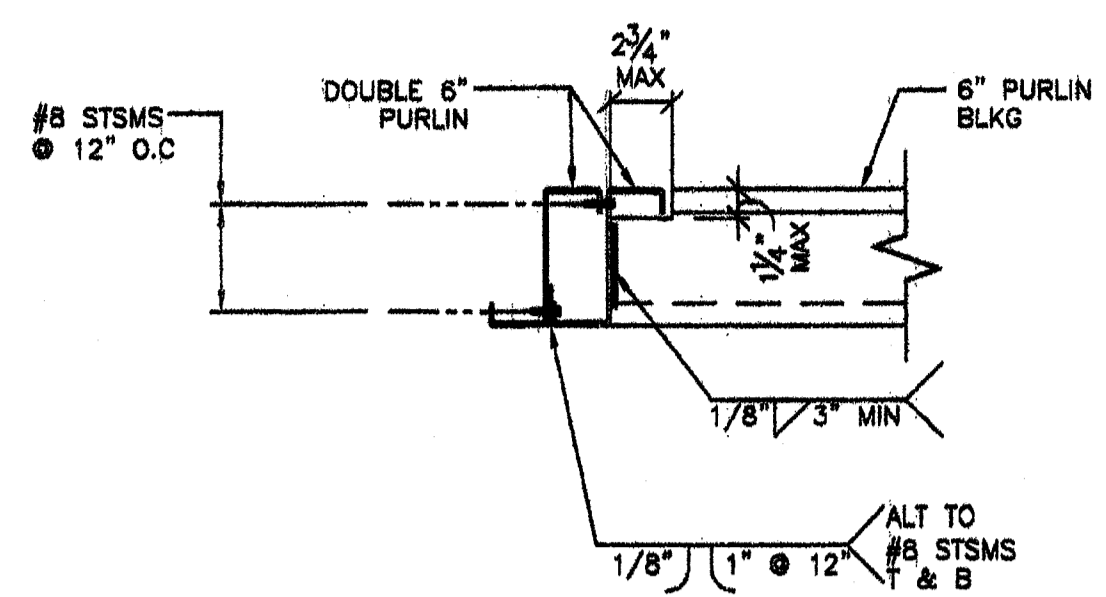
CUSTOMER:
 12' x 40' RELOCATABLE BUILDINGS
 ROOF FRAMING PLAN & DETAILS (OPEN SOFFIT OPTION)

ZMS
 American Modular Systems Inc.
 787 Spradlows Ave. Menlo Park, CA 94025
 (650) 925-1851 Fax (650) 925-7018
 americanmodular.com

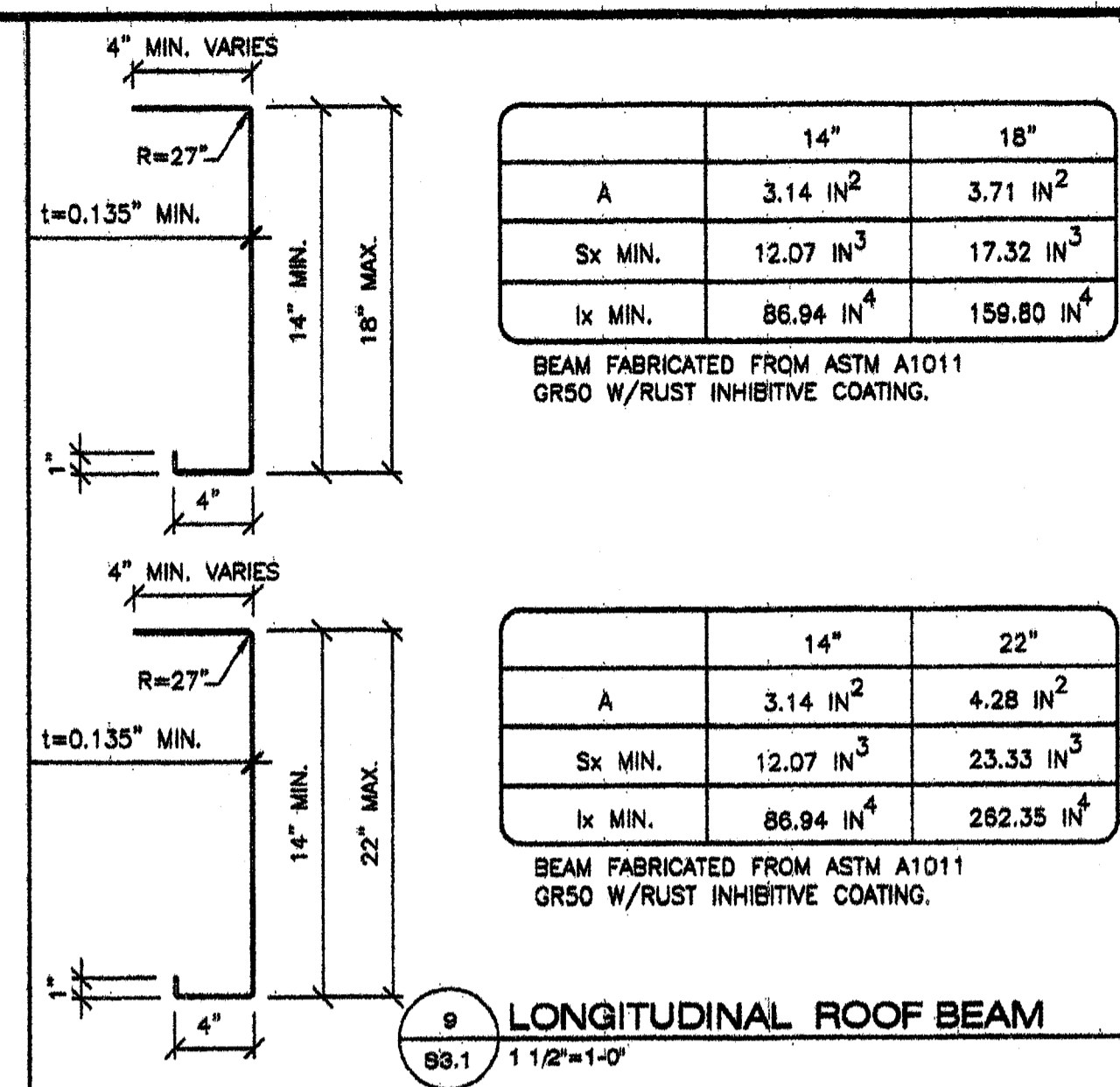
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 [Professional Engineer Seal]

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 02 111612
 AQ - FLB - SS GR
 DATE: 1/1/11
 [Professional Engineer Seal]

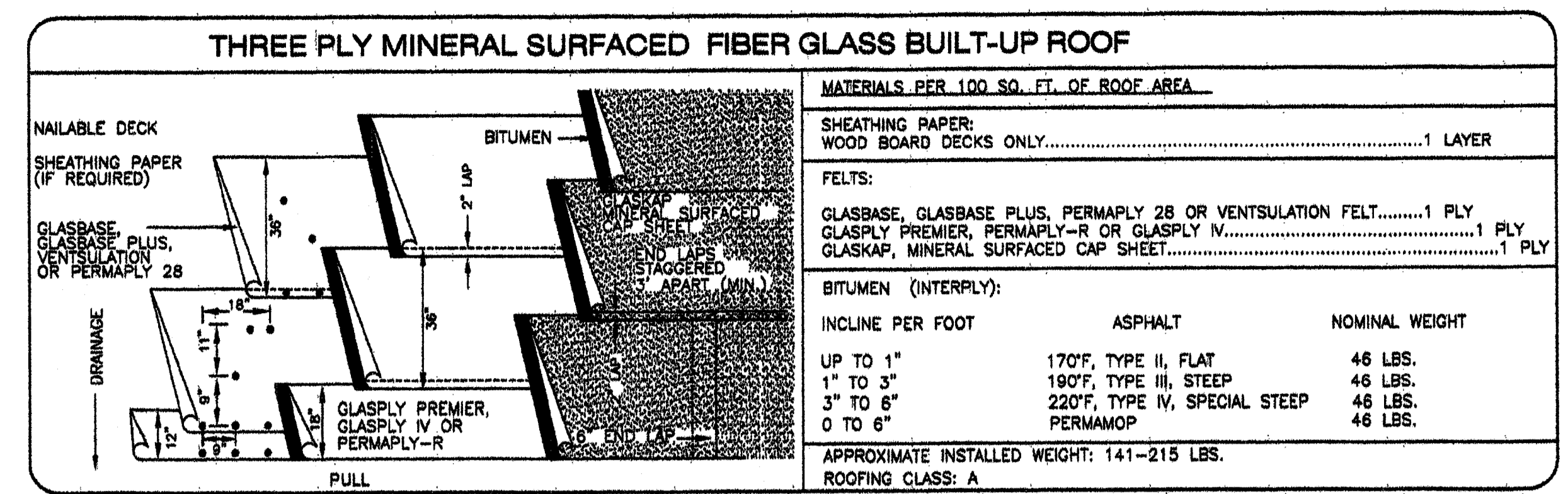
PROJECT No.
S3



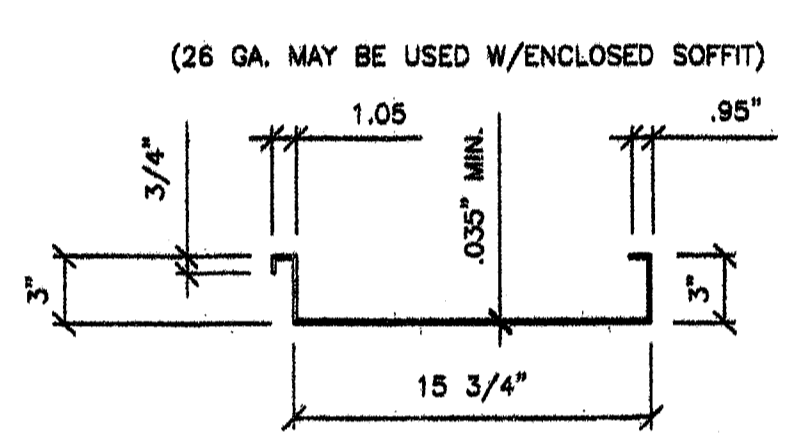
6 BLOCKING DETAIL
83.1 1 1/2"=1'-0"



9 LONGITUDINAL ROOF BEAM
83.1 1 1/2"=1'-0"



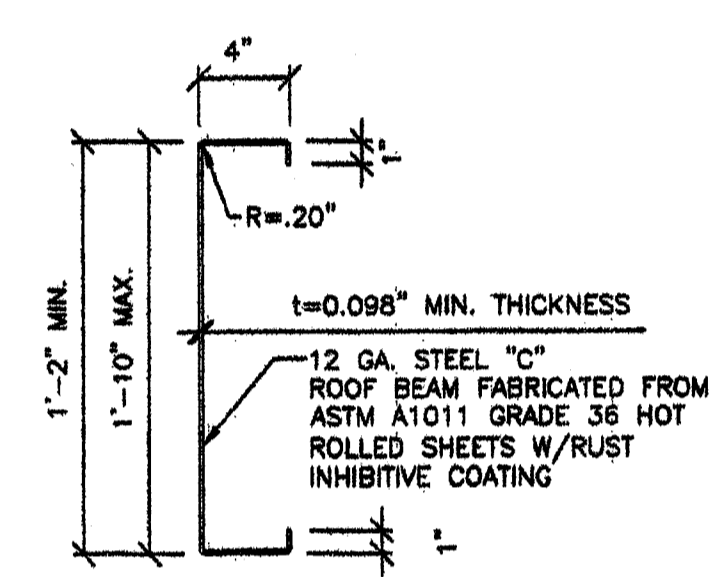
12 THREE PLY MINERAL BUILT-UP ROOF
83.1 1 1/2"=1'-0"



$Sx(t) = 0.418 \text{ IN}^3$
 $Sx(b) = 1.412 \text{ IN}^3$
 $Ix = 0.968 \text{ IN}^4$

PAN FABRICATED FROM ASTM A1011 GRADE 36,
HOT ROLLED SHEETS. PAN TO BE GIVEN A
RUST INHIBITIVE COATING.

7 20 GA. ROOF PAN
83.1 1 1/2"=1'-0"



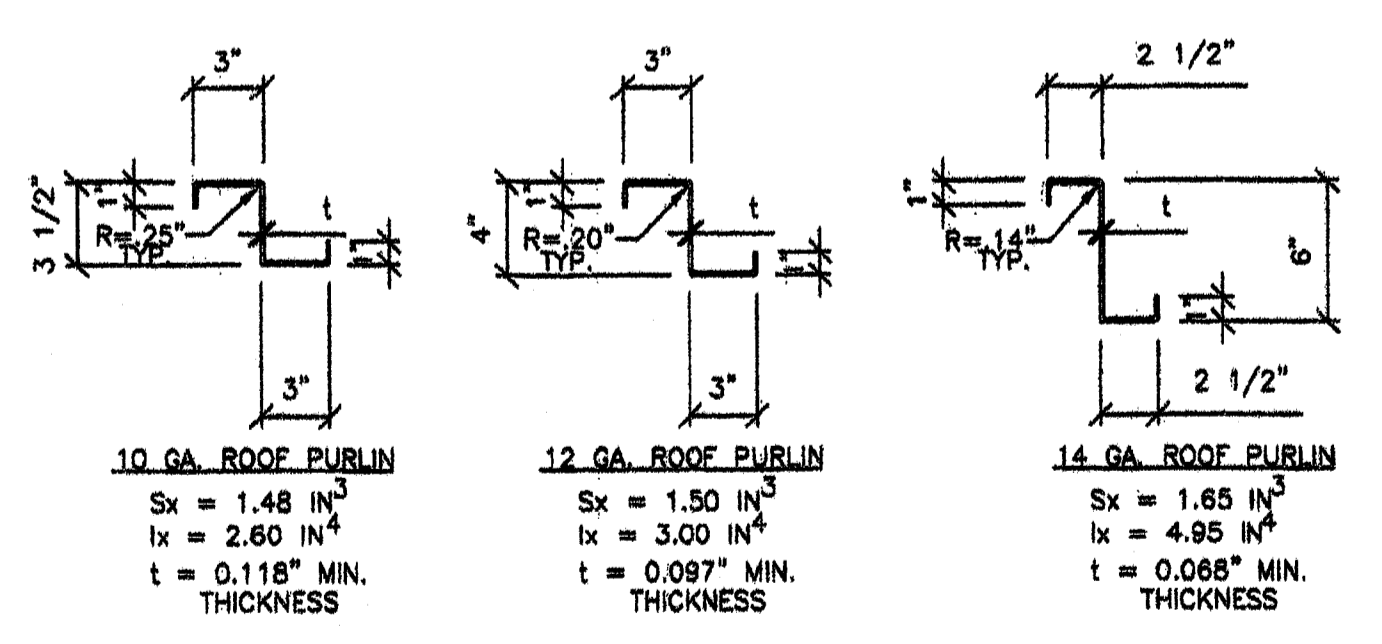
TYPICAL SECTION

C SECTION PROPERTIES
D=1'-2"
A=2.36 IN²
Sx=9.57 IN³
Ix=87.02 IN⁴

10 12 GA. ROOF CHANNEL
83.1 1 1/2"=1'-0"

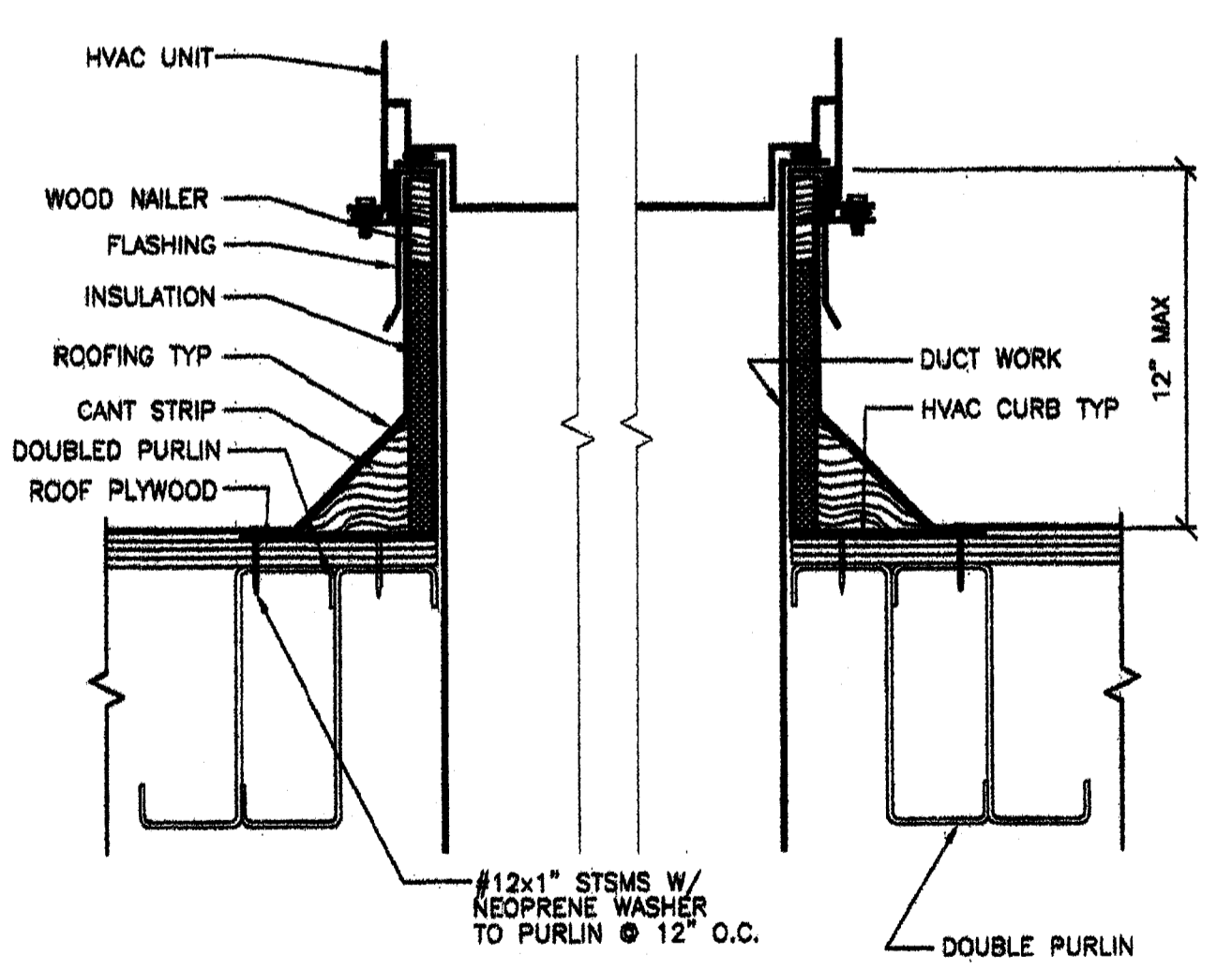
- GENERAL NOTES -

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JOIST FABRICATED FROM ASTM A1011
GRADE 36, HOT ROLLED SHEETS. JOISTS
TO BE GIVEN A RUST INHIBITIVE COATING.

8 Z PURLINS DETAILS AND PROPERTIES
83.1 1 1/2"=1'-0"



11 HVAC CURB DETAIL ANCHORAGE
83.1 9"=1'-0"

REVISIONS

NO.	DATE	DESCRIPTION

DATE: 02/28/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
ROOF FRAMING DETAILS



APPROVALS:

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REGISTERED PROFESSIONAL ENGINEER
Karanth A. Lohani
No. 4418
Exp. 3-31-11
Structural Engineer
STATE OF CALIFORNIA

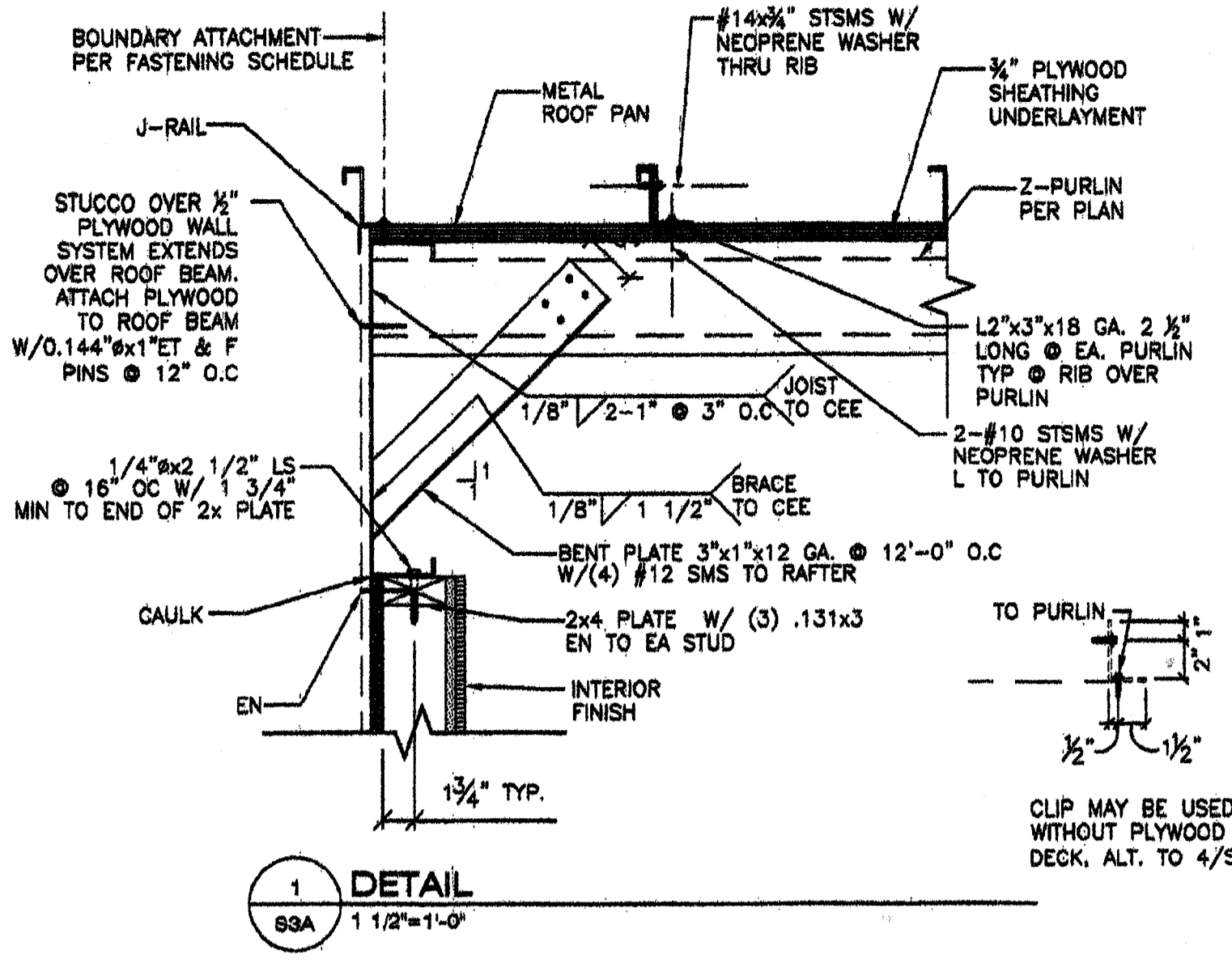
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DATE: 1/11/11

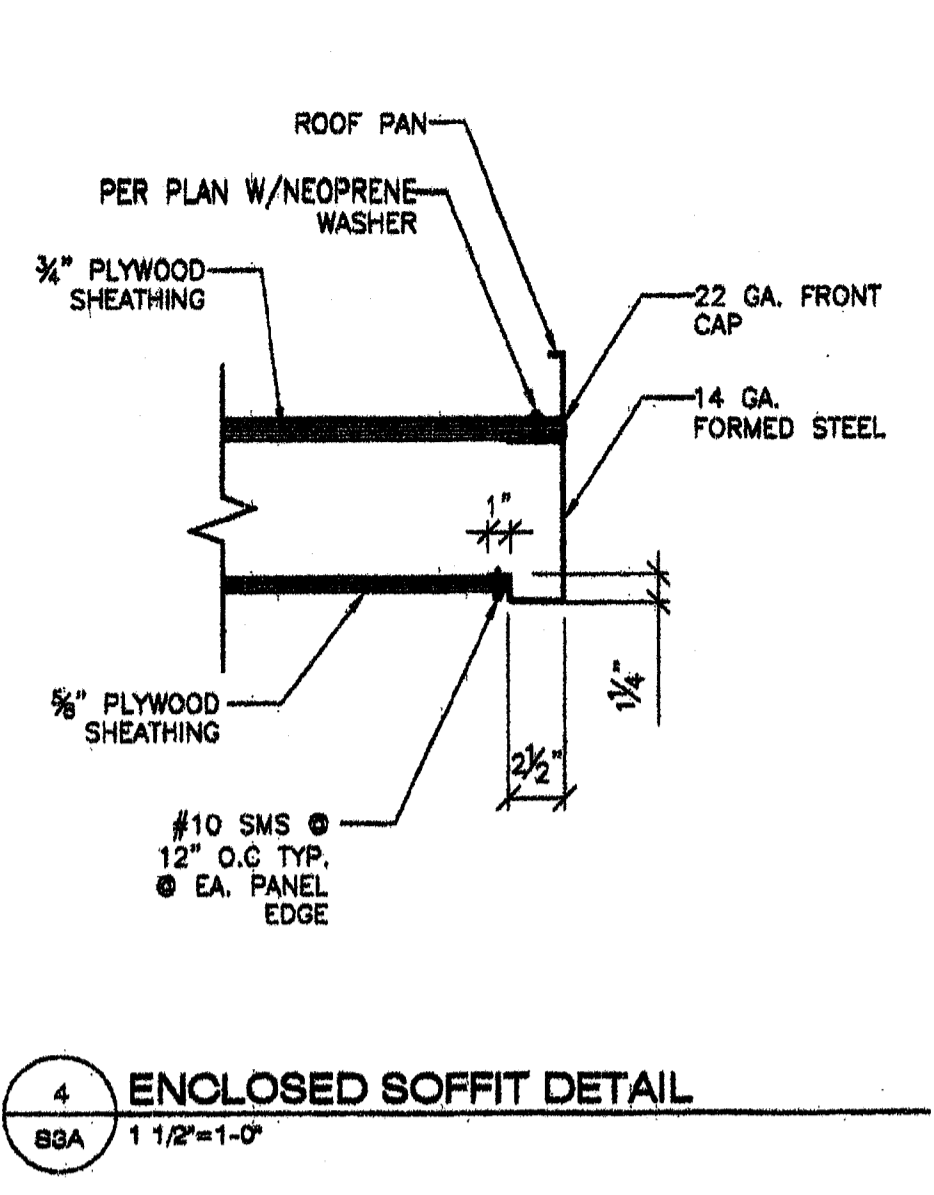
PROJECT No.

S3.1

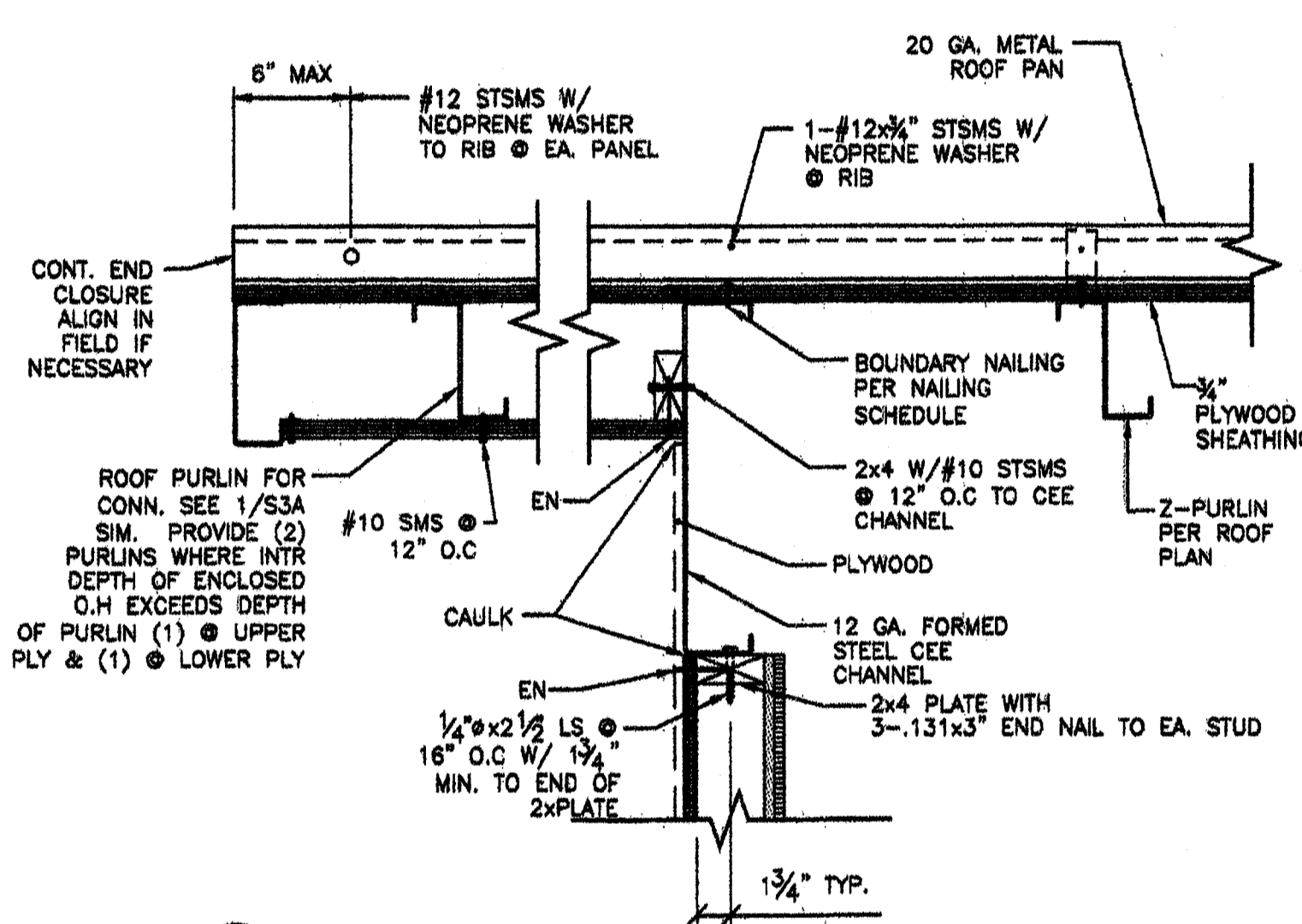
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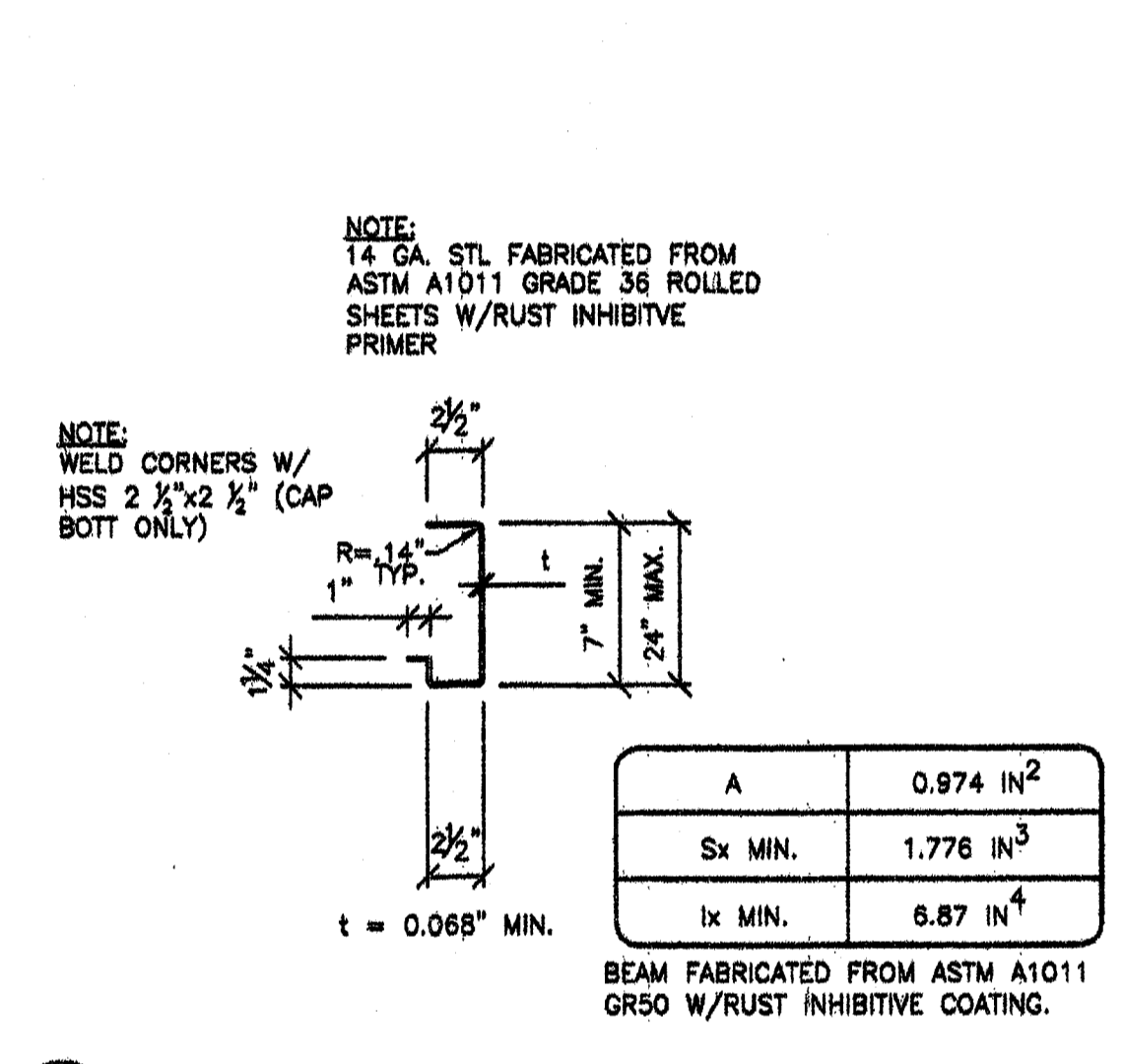
1 DETAIL
BSA 1 1/2"=1'-0"



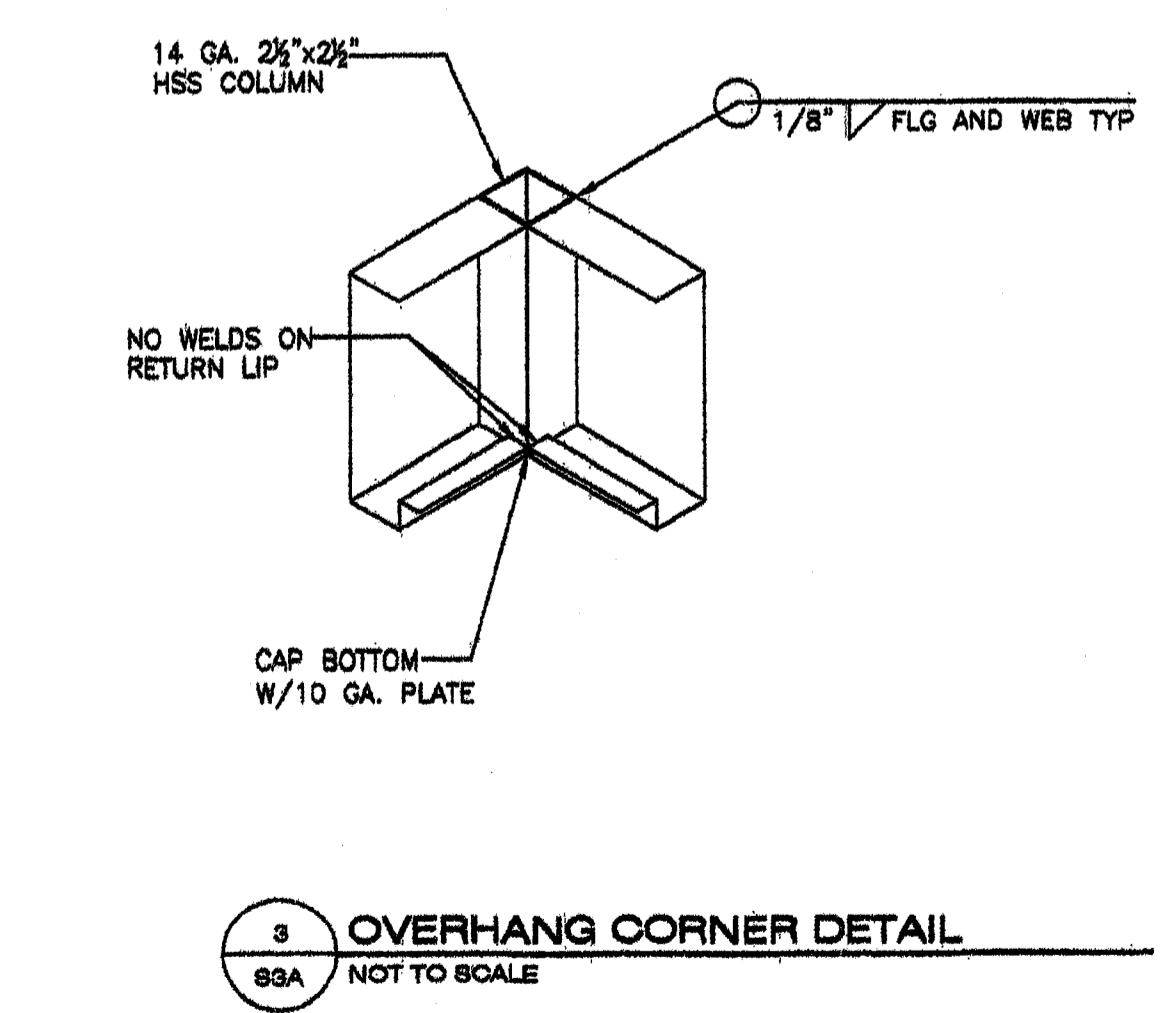
4 ENCLOSED SOFFIT DETAIL
BSA 1 1/2"=1'-0"



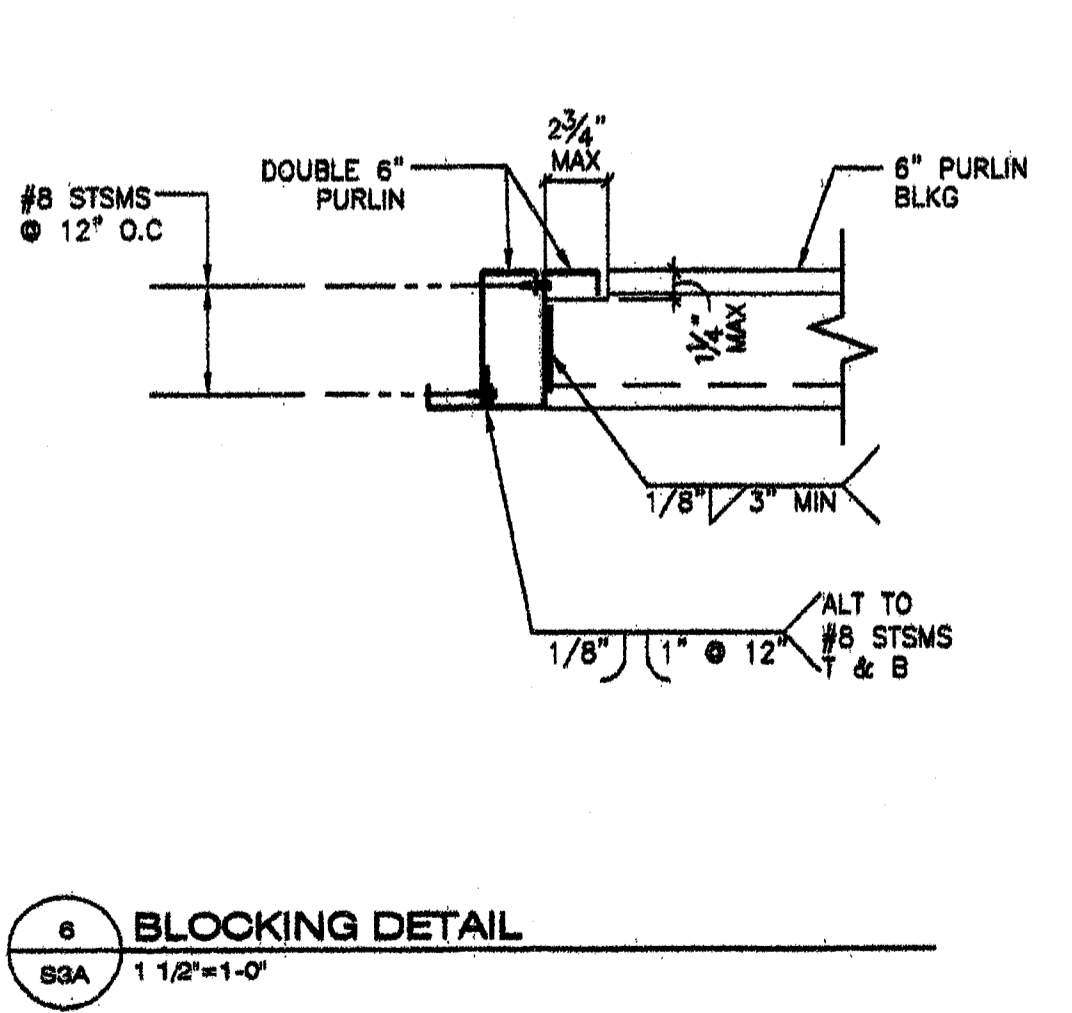
2 OVERHANG DETAIL
BSA 1 1/2"=1'-0"



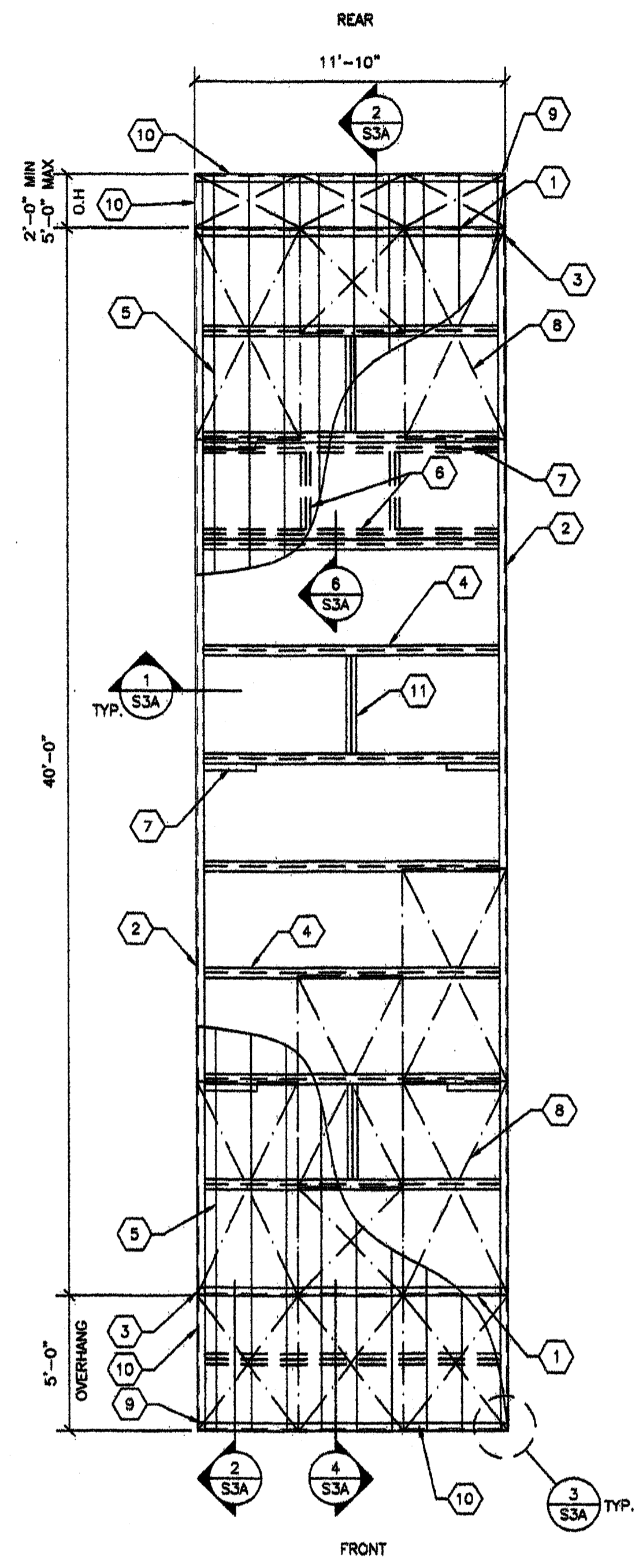
5 14 GA. FORMED STEEL CEE
BSA 1 1/2"=1'-0"



3 OVERHANG CORNER DETAIL
BSA NOT TO SCALE



6 BLOCKING DETAIL
BSA 1 1/2"=1'-0"



A TYPICAL ROOF FRAMING LAYOUT
BSA 1/4"=1'-0"

- KEY NOTES -**
- 12 GA. TRANSVERSE BEAM PER 10/S3.1
 - LONGITUDINAL ROOF CHANNEL TYP. PER 9/S3.1
 - HSS PER SHEET S4
 - Z FORMED ROOF PURLINS PER 8/S3.1 @ 48" O.C. MAX
 - 20 GA. ROOF PAN (ALT. 26 GA. ROOF PAN OVER PLYWOOD)
 - PROVIDE DOUBLE 6" PURLINS W/6" PURLIN BLKG PER 6/S3A @ OPTIONAL 60# HVAC. (10'-0" MAX FROM END OF BLDG TO CENTER OF UNIT)
 - 3"x1"x12 GA. BENT PLATE TO 10 GA. BEAM @ 12'-0" O.C. MAX PER 1/S3A. PROVIDE PURLIN BLOCKING @ EACH BRACE PER (1) BELOW (IF CROSS BRACING IS USED THEN REFER TO PLAN 1/S3 FOR BENT PLATE LOCATIONS, AND PROVIDE CROSS BRACING AT OVERHANGS)
 - 3/4" APA RATED L-P OSB SHEATHING OR 3/4" PLYWOOD (ALL SHEATHING SHALL BE EITHER T&G OR EDGE CLIP) COMPLY WITH DSA PA-062 CD EXPOSURE-1 48/24 SPAN INDEX. FACE GRAIN NORMAL TO ROOF PURLINS. ROOF SHING MAY BE REPLACED BY STRAP CROSS BRACING (REFER TO SHEET S3 FOR DETAILS, AND PROVIDE CROSS BRACING AT OVERHANGS) ALL BOUNDARY, EDGE & FIELD ATTACHMENTS SHALL BE 1" MIN. FROM EDGE OF PLYWOOD & EDGE OF STEEL SUPPORTING MEMBER. REFER TO SCHEDULE BELOW FOR FASTENING.
 - HSS COLUMN 14 GA. 2 1/2"x2 1/2" TYP. SEE 3/S3A
 - 14 GA. FORMED STEEL CEE SEE 5/S3A
 - PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 6/S3A. BLOCKING IS ONLY REQUIRED AT PURLINS WITH DIAGONAL BRACING PER (7) ABOVE

FASTENING SCHEDULE

NAILING	0.144" PINS SPACING		# 10 SMS SPACING	
	TYPICAL	WITHIN 3' OF BUILDING CORNERS	TYPICAL	WITHIN 3' OF BUILDING CORNERS
BOUNDARY	6" O.C.	6" O.C.	6" O.C.	6" O.C.
EDGE	6" O.C.	6" O.C.	6" O.C.	6" O.C.
FIELD	12" O.C.	6" O.C.	12" O.C.	12" O.C.

ET & F 0.144 PINS PER ICC ESR #4144

- GENERAL NOTES -**
- THE MATERIAL THICKNESS OF STRUCTURAL MEMBER, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED IN THE TABLE OR IN THE PLAN. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
 - SEE SHEET S5 FOR TYP. SIDE WALL FRAMING.
 - SEE SHEET S5 FOR TYP. END WALL FRAMING.
 - ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED W/NEOPRENE WASHERS.

REVISIONS

NO.	DATE	DESCRIPTION

DATE: 02/25/06
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
**12' x 40' RELOCATABLE BUILDINGS
ROOF FRAMING PLAN & DETAILS (ENCLOSED SOFFIT OPTION)**

AMS
American Modular Systems Inc.
787 Spruceville Ave. Meritts, CA 95336
(209)825-1921 Fax (209)825-7018
americanmodular.com

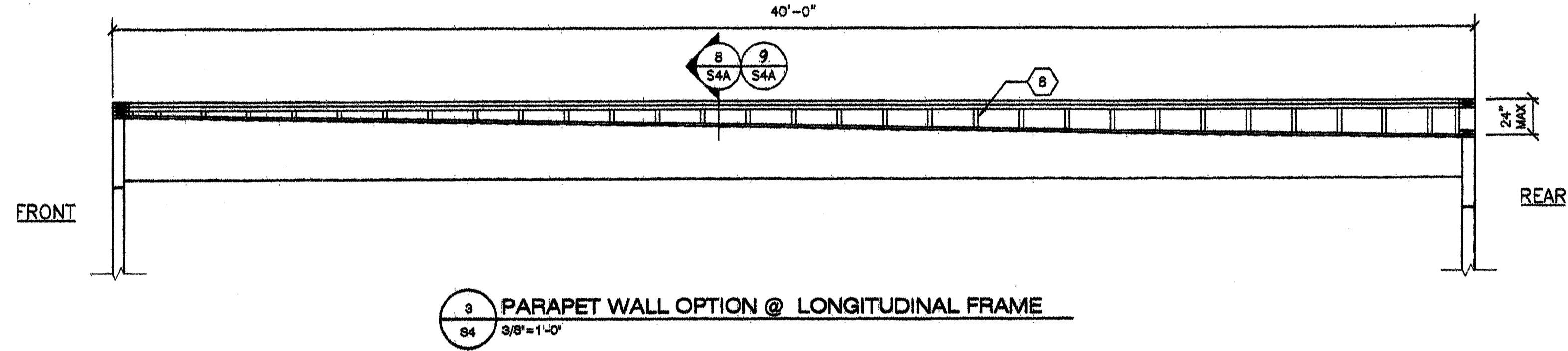
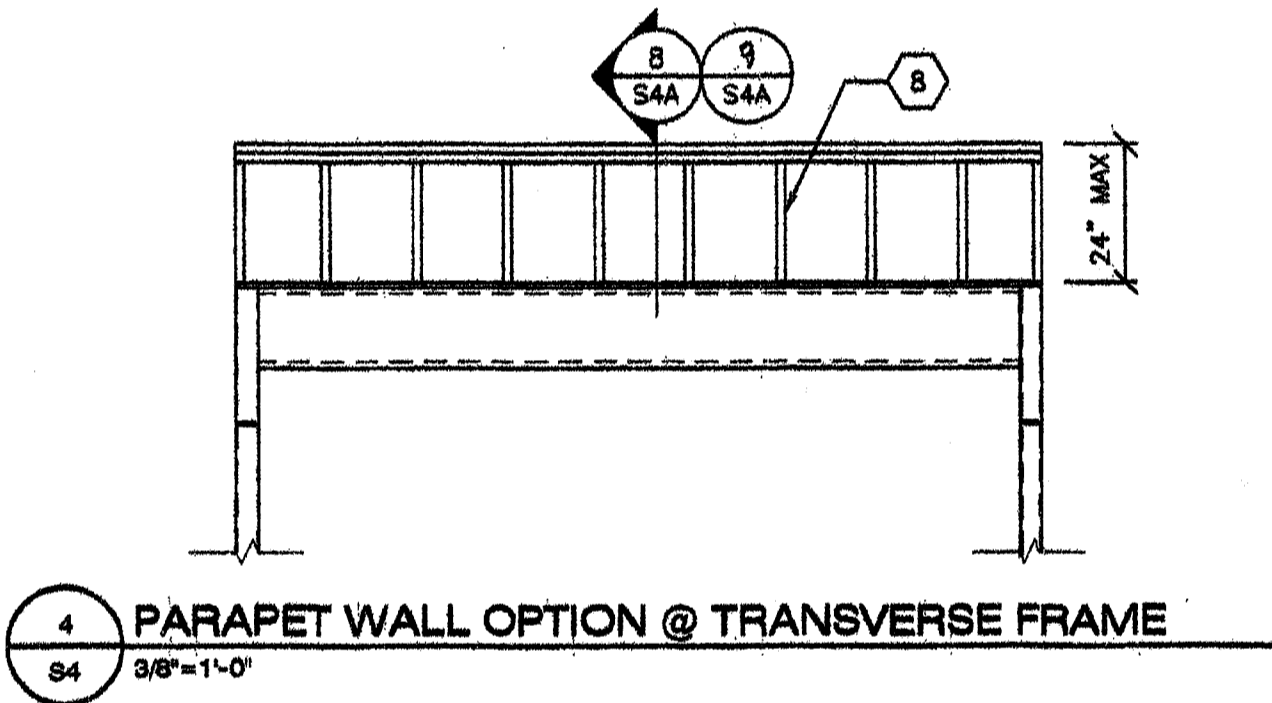
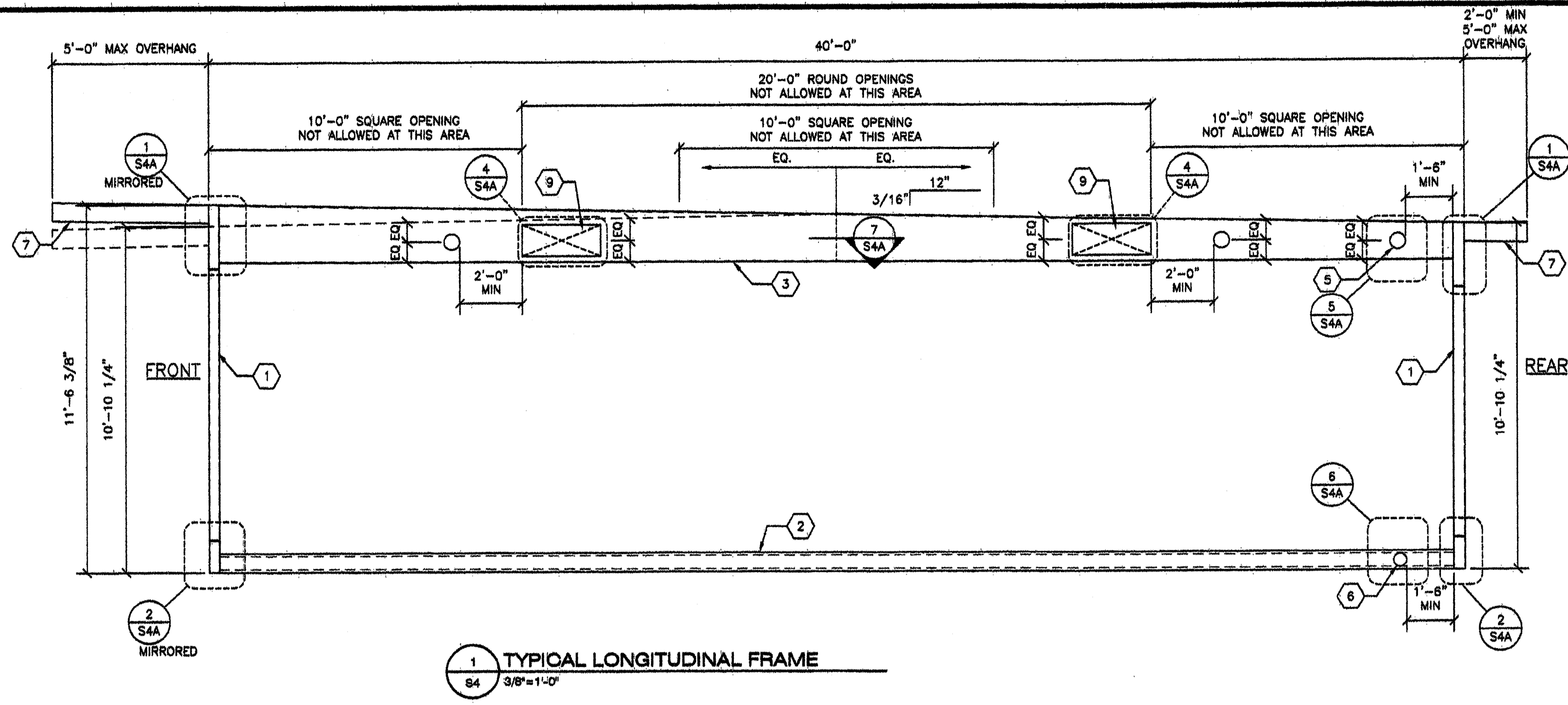
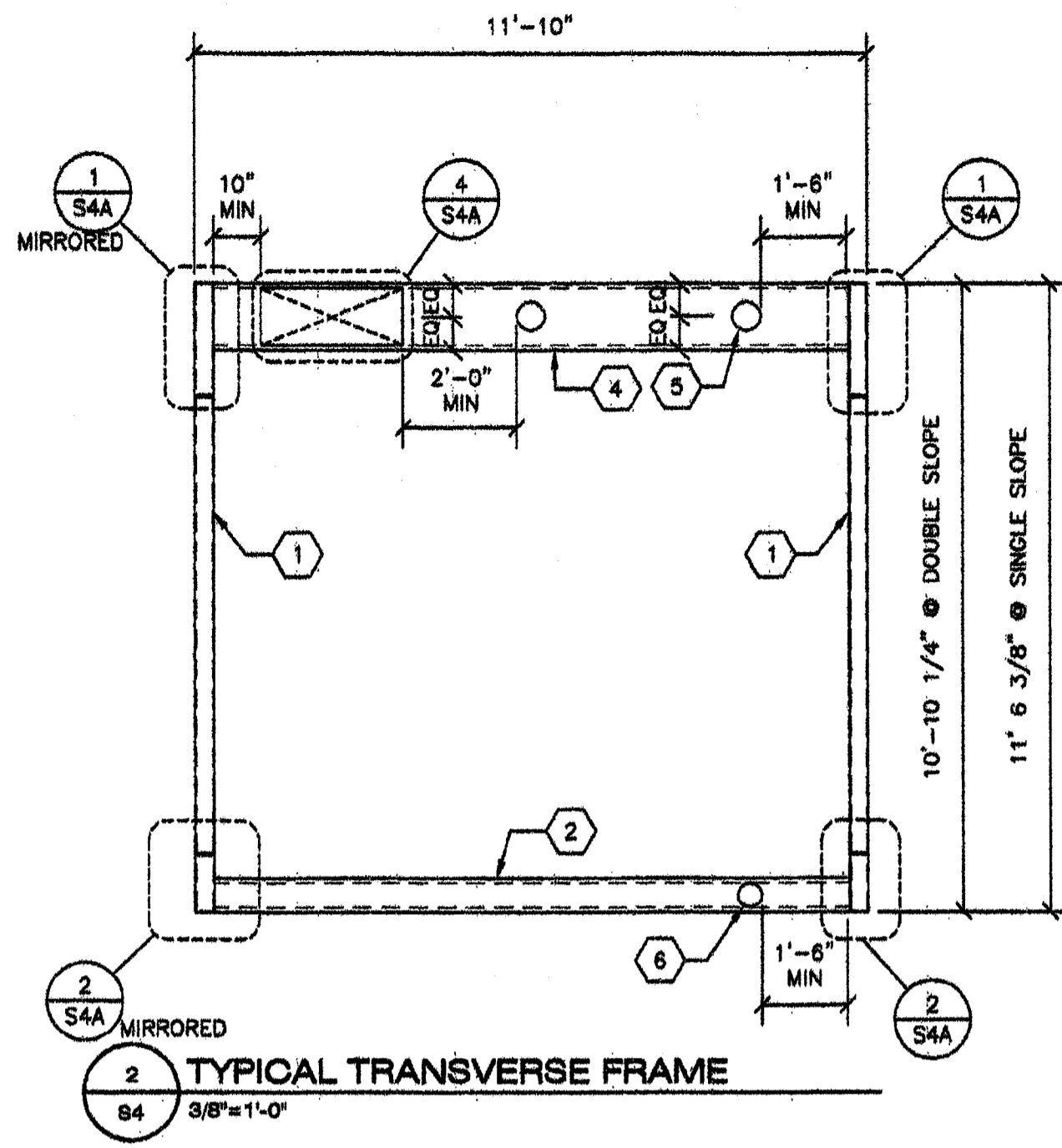
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REGISTERED PROFESSIONAL ENGINEER
KENNETH A. LUTHE
No. 1418
EXP. 3-31-11
Structural Engineer
State of California

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-111642
AQ - FLB - BS
DATE 1/12/11
STATE OF CALIFORNIA

PROJECT No.
S3A

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- KEY NOTES -**
- 1 4x4x5/16 HSS COLUMN
 - 2 FLOOR BEAM PER SCHEDULE
 - 3 10 GA. LONGITUDINAL ROOF CHANNEL
14"-18"-14" @ DOUBLE SLOPE
14"-22" @ SINGLE SLOPE
 - 4 12 GA. TRANSVERSE ROOF CHANNEL
14" MIN 22" MAX
 - 5 6" # MAX OPENING IN WEB OF ROOF BEAM
WITHOUT WEB REINFORCEMENT
MINIMUM SPACING OF HOLES @ 48" O.C.
HOLES MAY OCCUR @ ANY LOCATION ALONG
LENGTH OF ROOF BEAM EXCEPT AS NOTED
OTHERWISE ON FRAMING ELEVATION
NOTE: IF HOLE IS 3" OR LESS THEY MAY BE
SPACED AT 24" O.C. MINIMUM
 - 6 4" # MAX OPENING IN WEB OF FLOOR BEAM
WITHOUT WEB REINFORCEMENT
MINIMUM SPACING OF HOLES @ 48" O.C.
HOLES MAY OCCUR @ ANY LOCATION ALONG
LENGTH OF FLOOR BEAM WITH DIRECT
FOUNDATION SUPPORT BELOW. OPENINGS
ARE NOT ALLOWED WHERE BEAMS ARE
SPANNING BETWEEN FOUNDATIONS OR ACROSS
VENT OPENINGS.
NOTE: IF HOLE IS 2" OR LESS THEY MAY BE
SPACED AT 24" MINIMUM
 - 7 14 GA OUTRIGGER CHANNEL AT OPTIONAL
ENCLOSED OVERHANG
REFER TO DETAIL 1/S4A
 - 8 2x6 H.F. #2 OR BETTER STUDS @ 16" O.C.
 - 9 12"x 30" MAX OPENING ALLOWED ONLY
AT EXTERIOR BEAMS WITH A WALL DIRECTLY
BELOW. IF WALL BELOW IT IS REMOVED THEN
A COLUMN MUST BE ADDED AT MID SPAN.
REFER TO DETAIL 4/S4A FOR OPENING
REINFORCEMENT

- FLOOR BEAM SCHEDULE -

SUBFLOOR TYPE	FLOOR BEAM SIZE	ALTERNATES
VIROC OR PLYWOOD	C7x9.8	C9x13.4, C10x15.3
CONCRETE	C9x13.4	C10x15.3

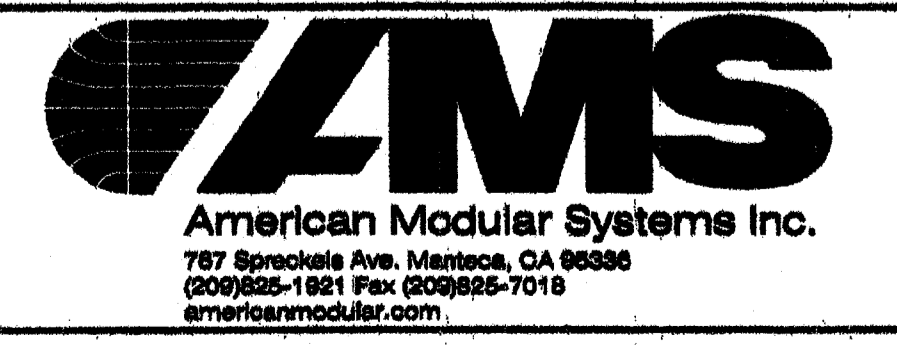
REVISIONS

NO	DATE	DESCRIPTION

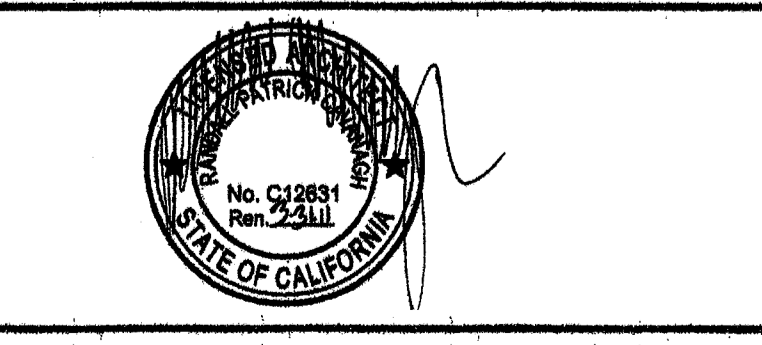
DATE: 02/25/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
TYPICAL FRAME ELEVATIONS



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Kenneth A. Littel
No. 4418
Exp. 3-31-11
Structural Engineer
STATE OF CALIFORNIA

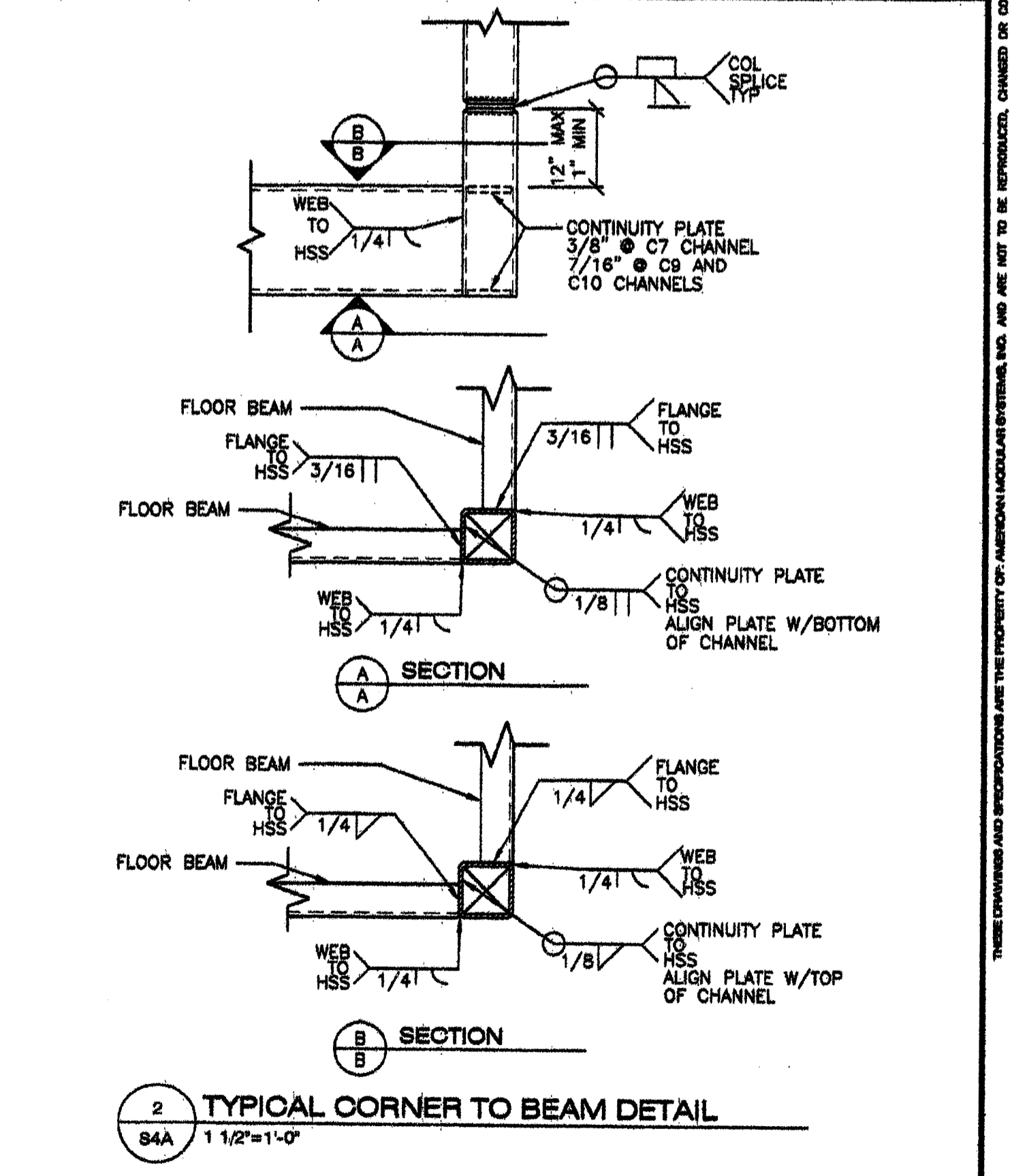
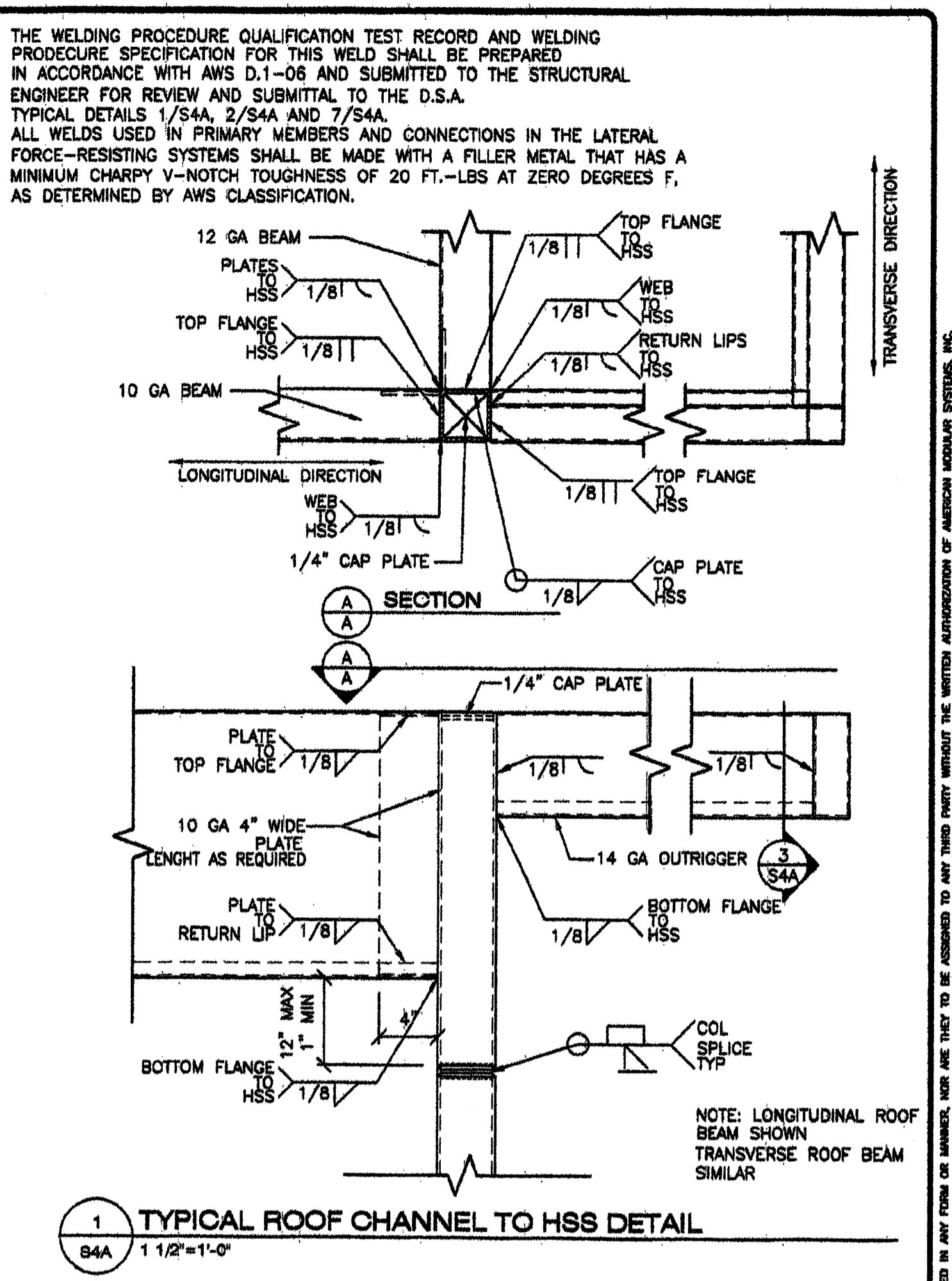
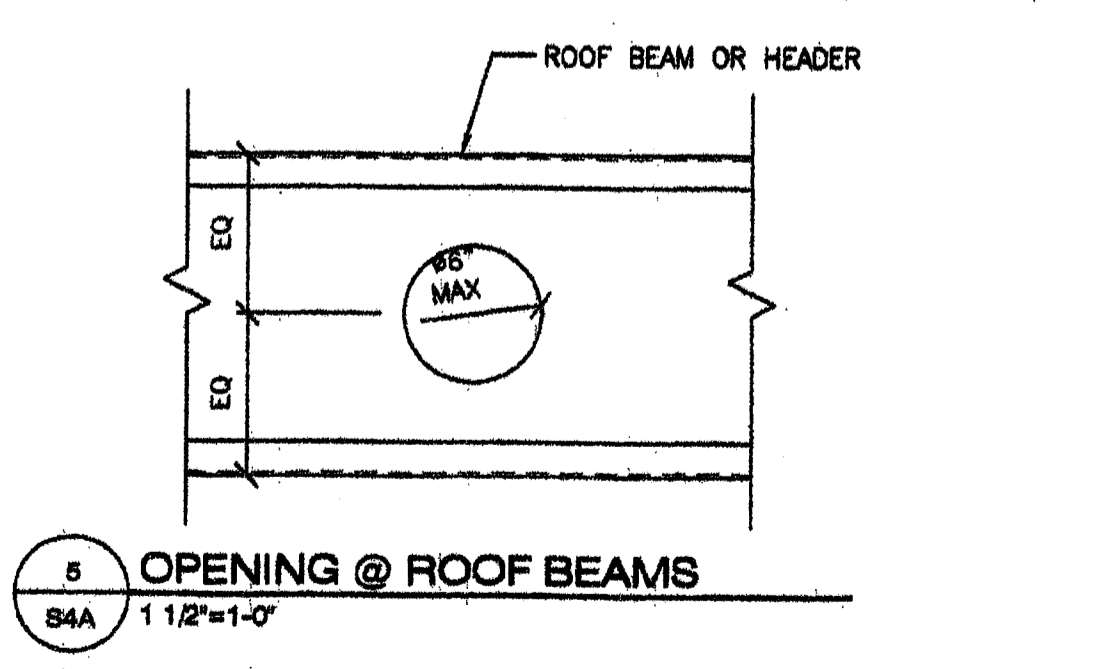
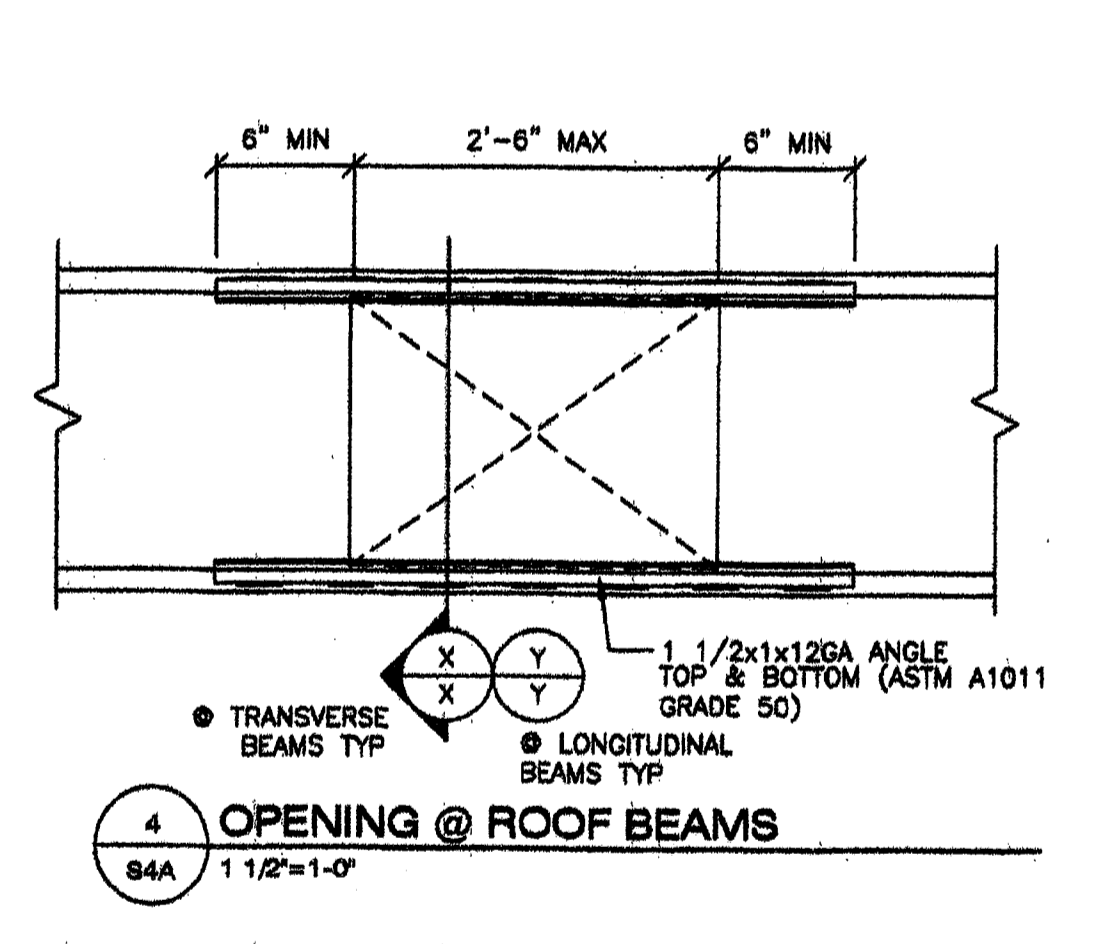
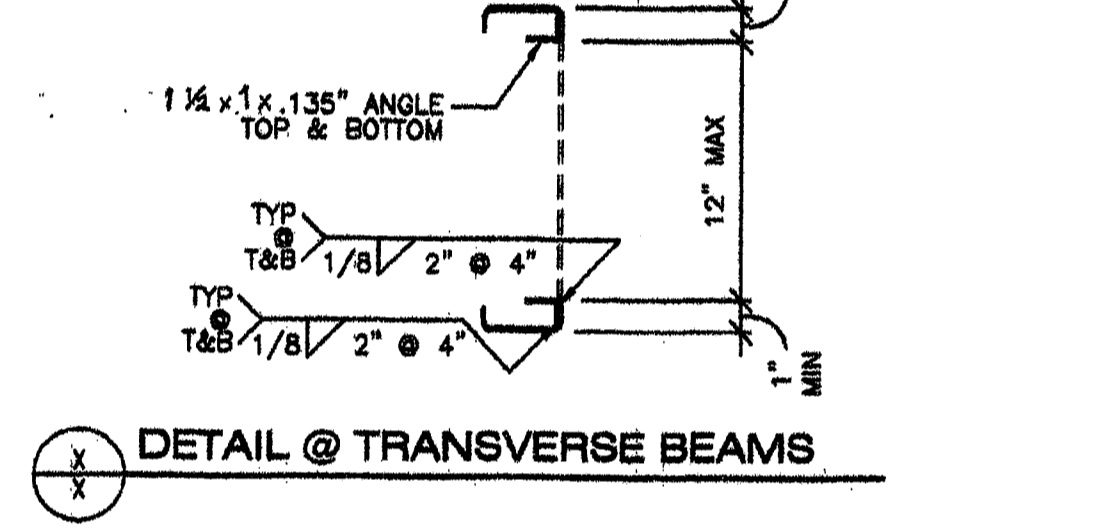
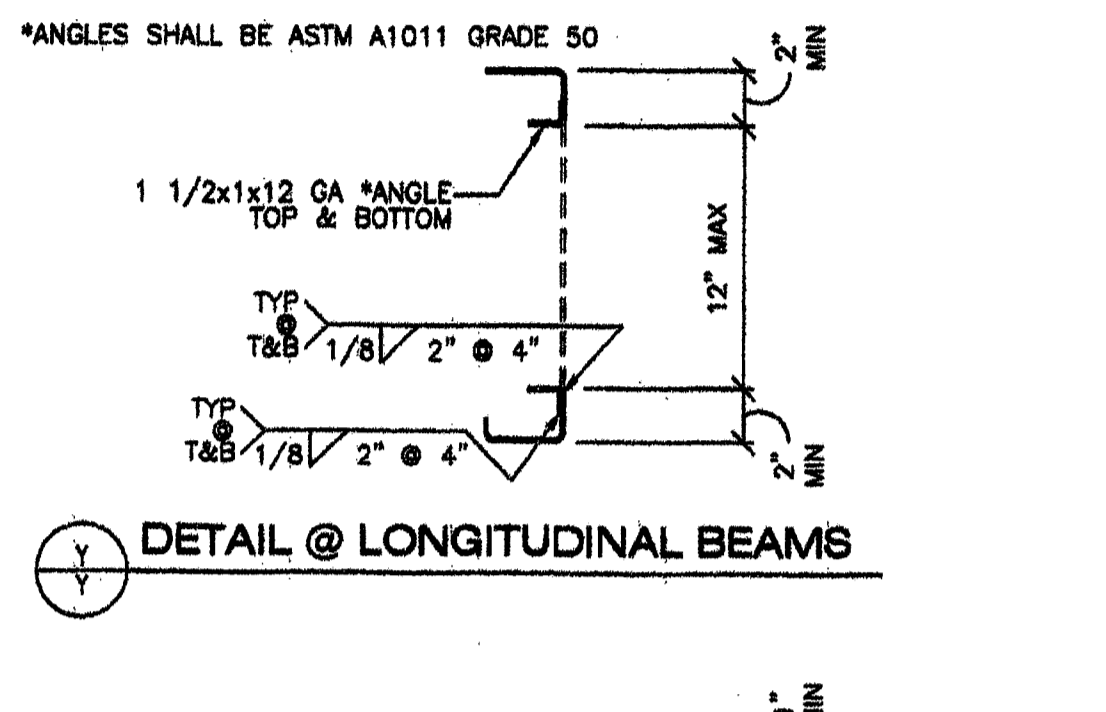
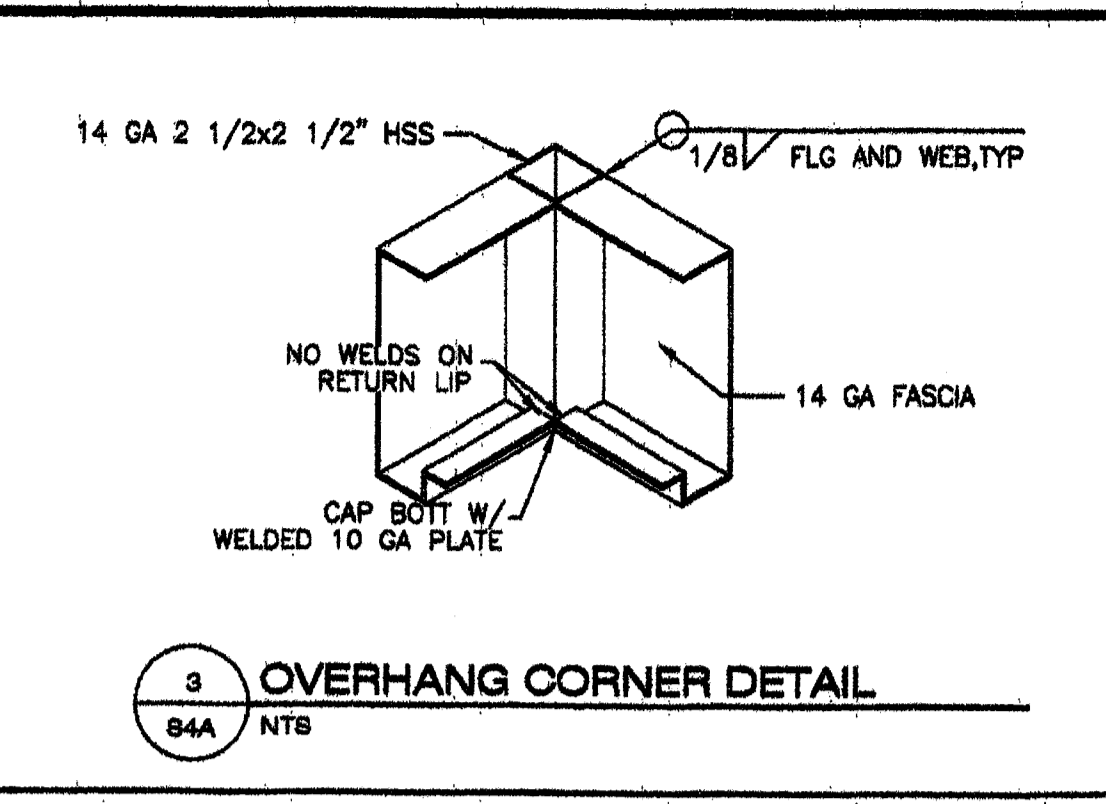
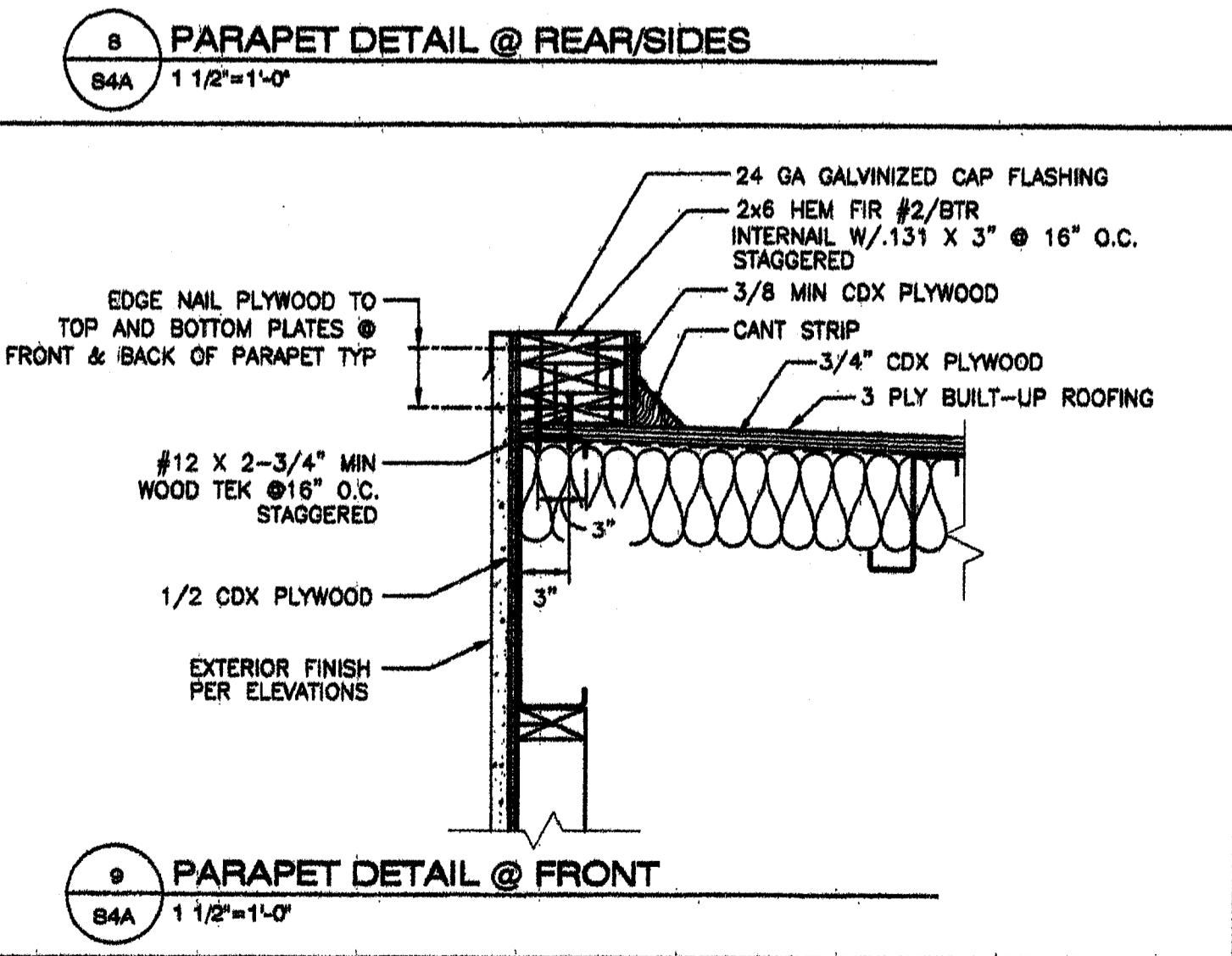
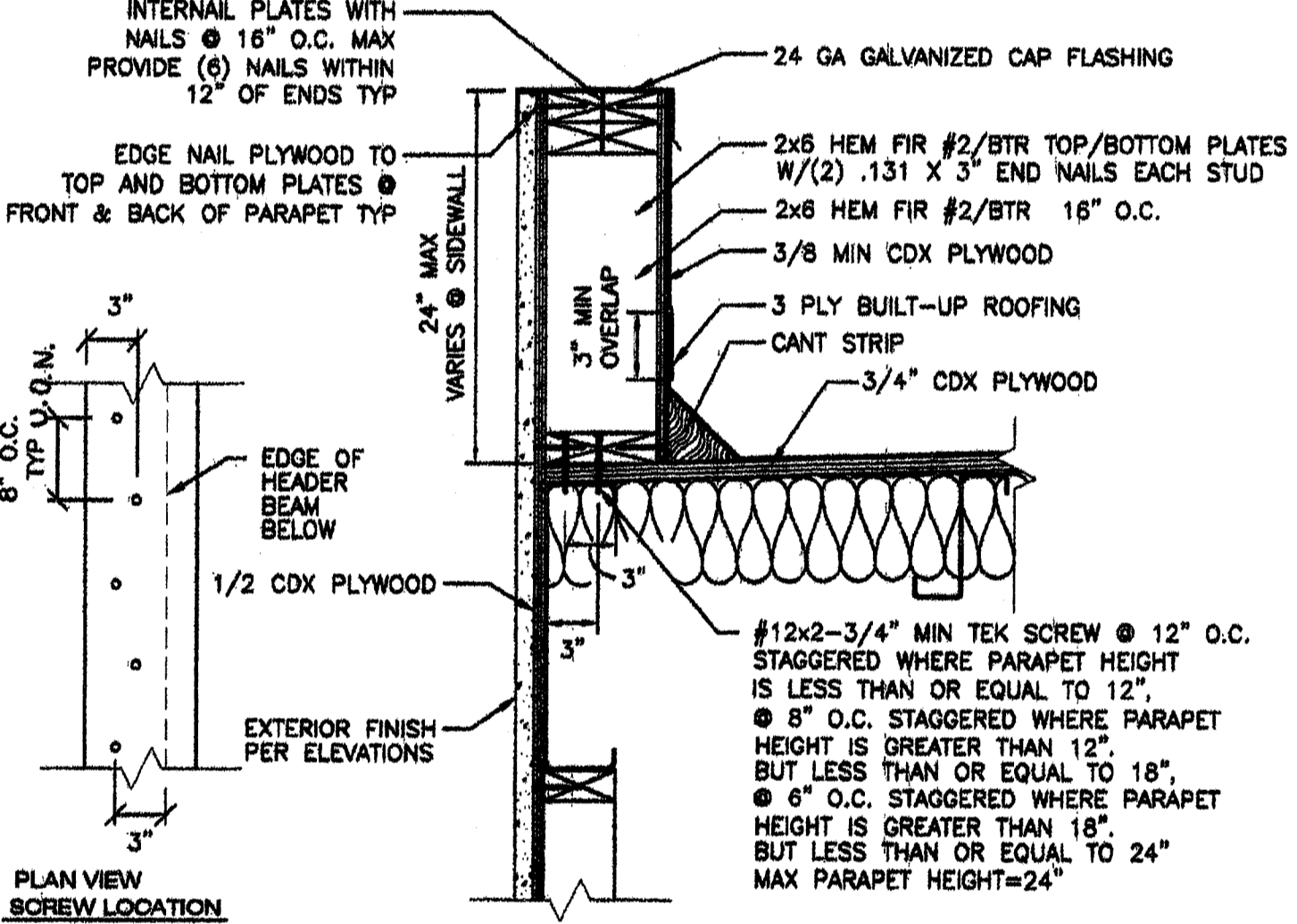
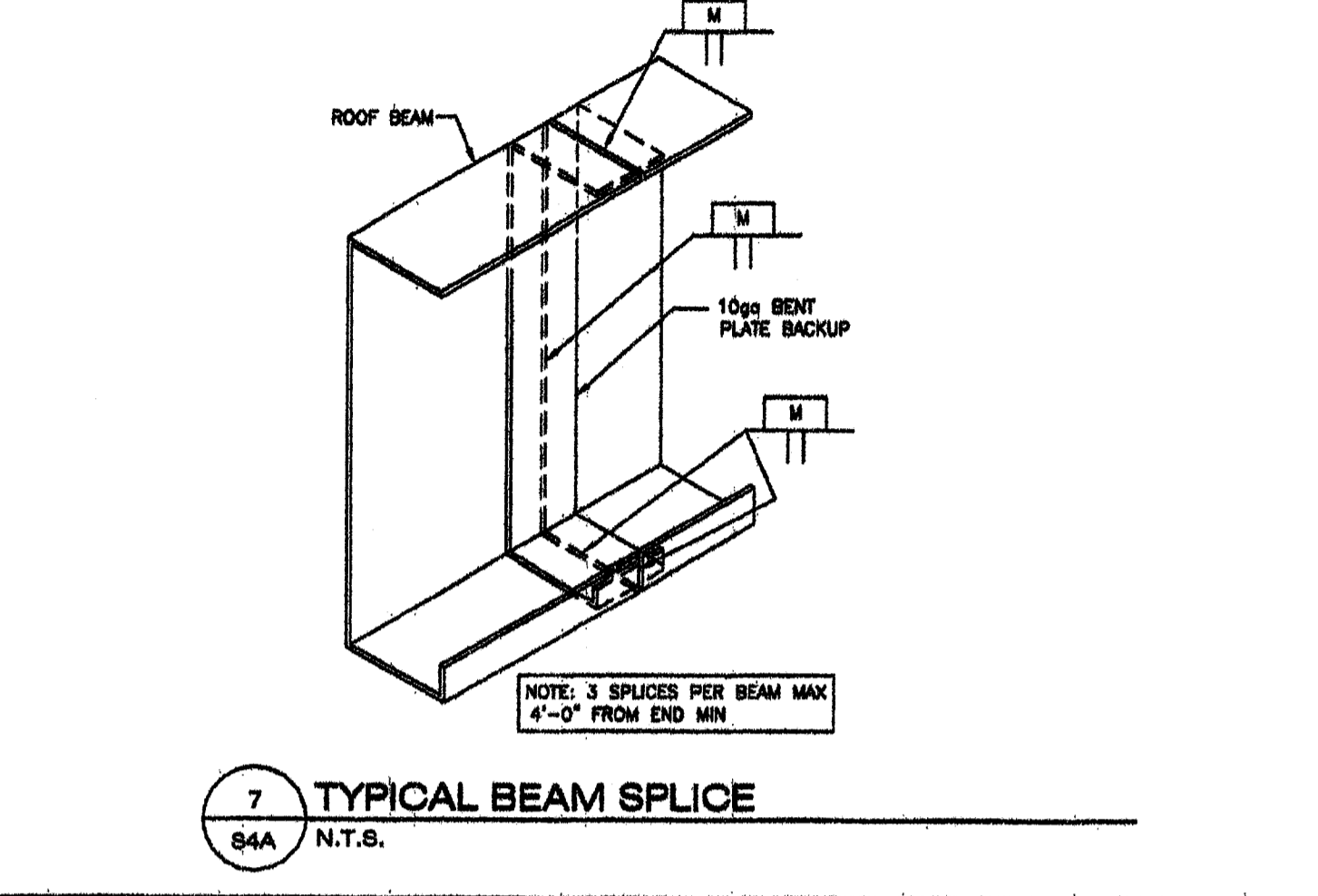
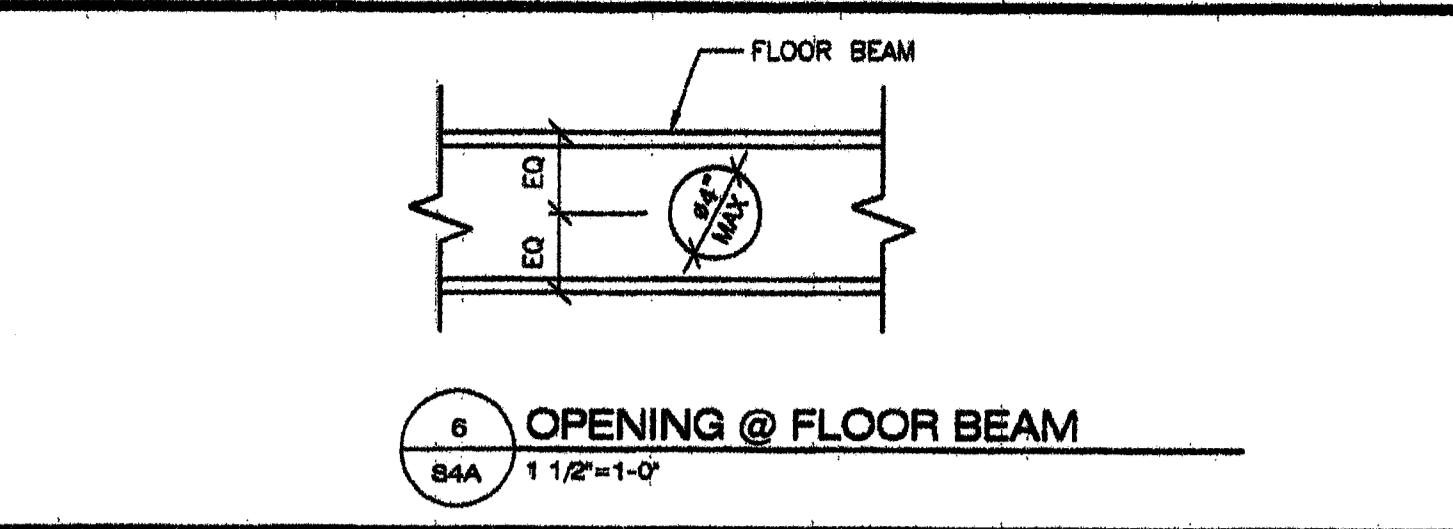
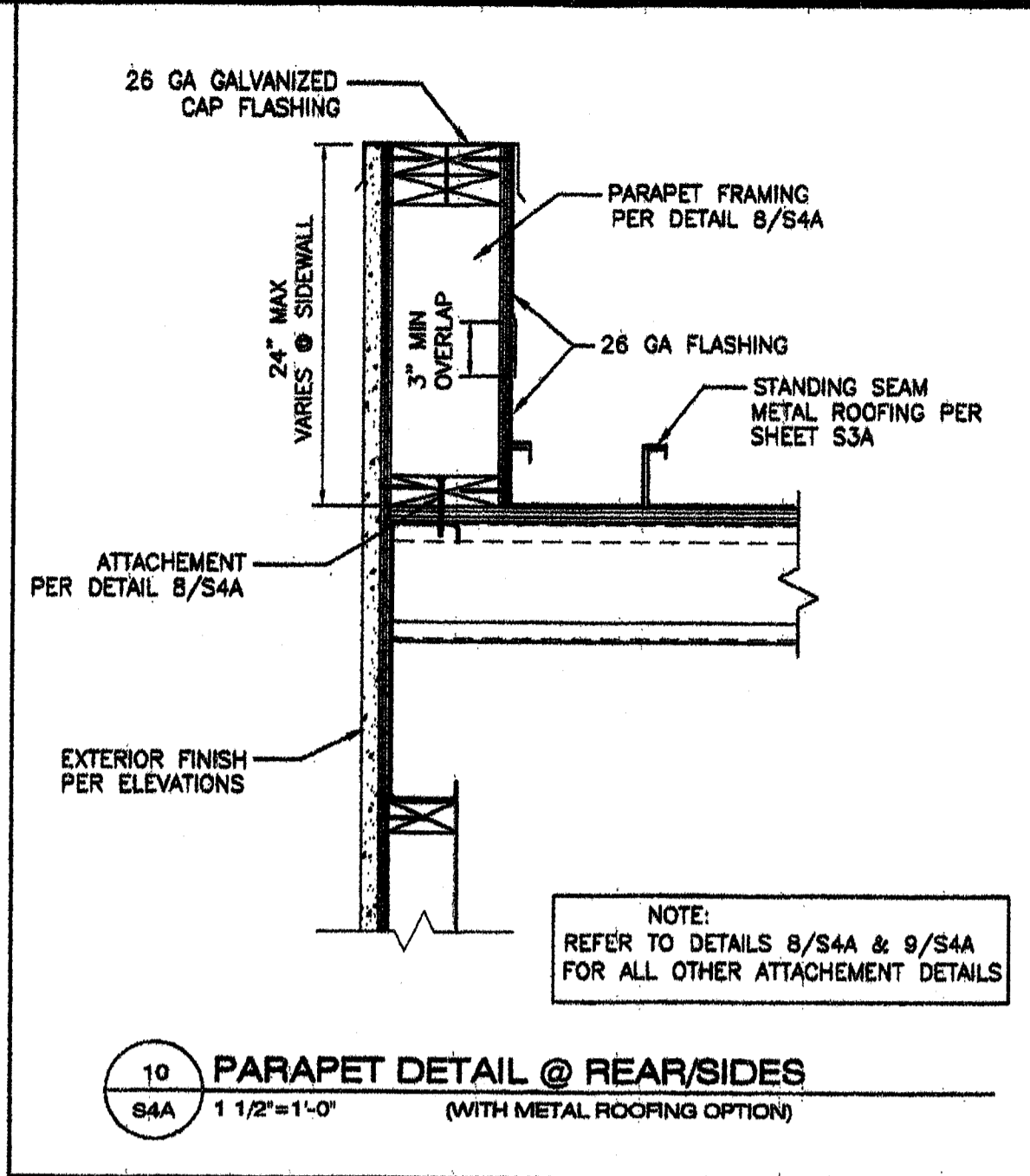


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PROJECT No.

S4

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REVISIONS		
NO	DATE	DESCRIPTION

DATE: 02/26/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:
**12' x 40' RELOCATABLE BUILDINGS
FRAME CONNECTION DETAILS**

AMS
American Modular Systems Inc.
787 Spruceville Ave. Marietta, GA 30066
(209)928-1821 Fax (209)928-7018
americanmodular.com

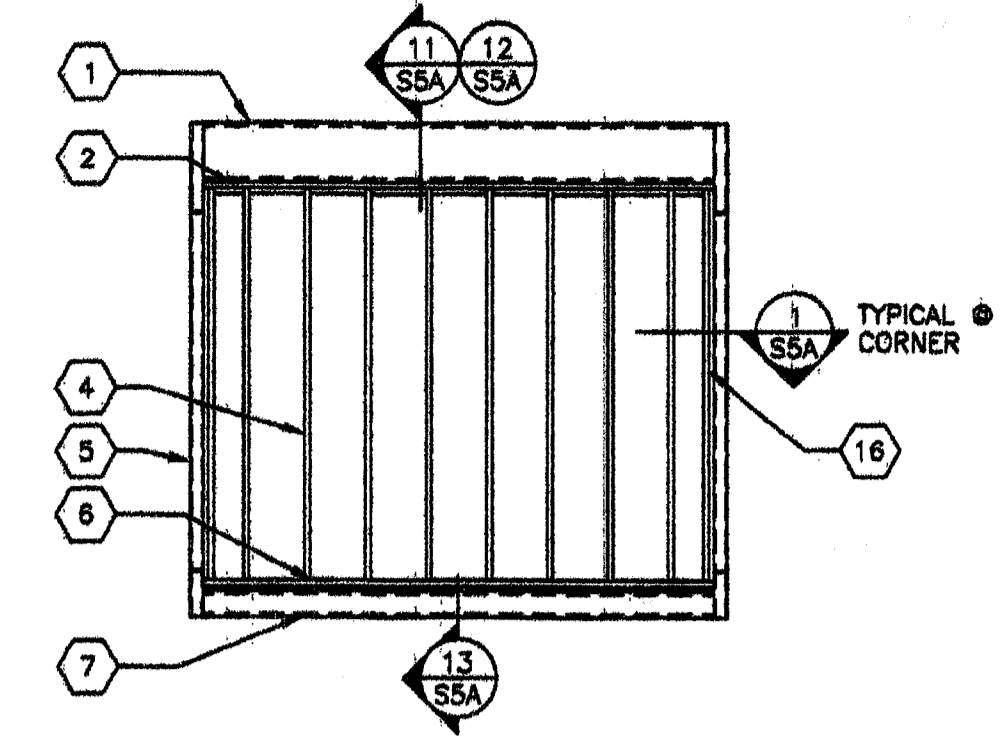
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OF RECORD.

[Signature]
REGISTERED PROFESSIONAL ENGINEER
Kernell A. Lutzner
No. 1418
Exp. 2-31-11
Structural Engineer
STATE OF CALIFORNIA

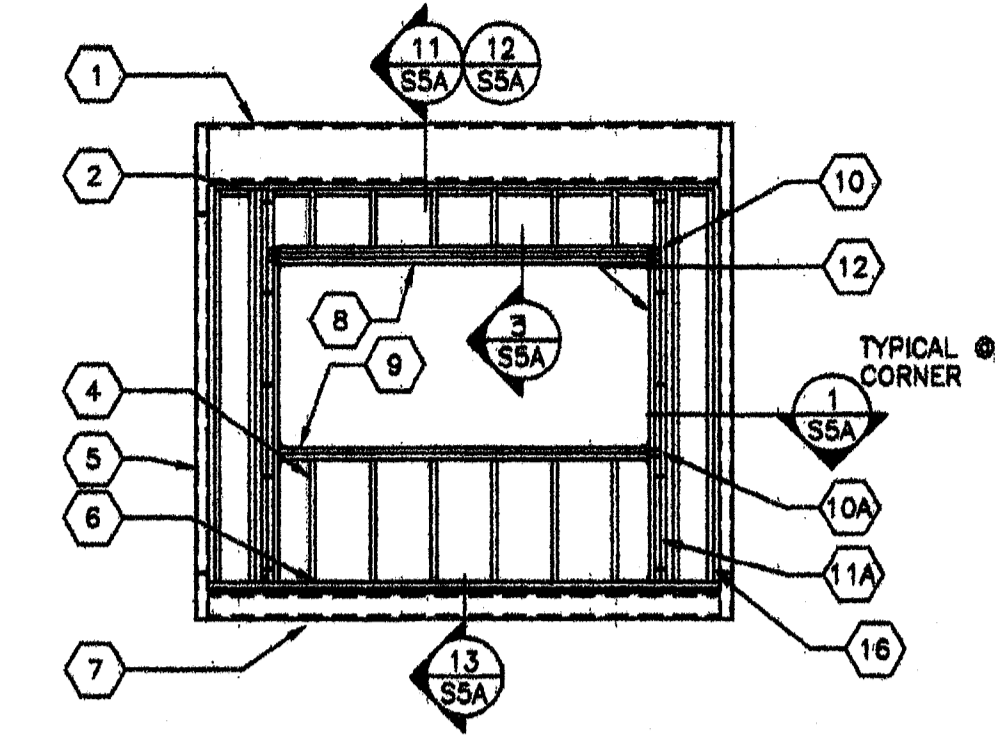
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OFFICE OF REGULATION SERVICES
02_111612
AC: FLB: 6662
DATE: 11/11/08

PROJECT No.
S4A

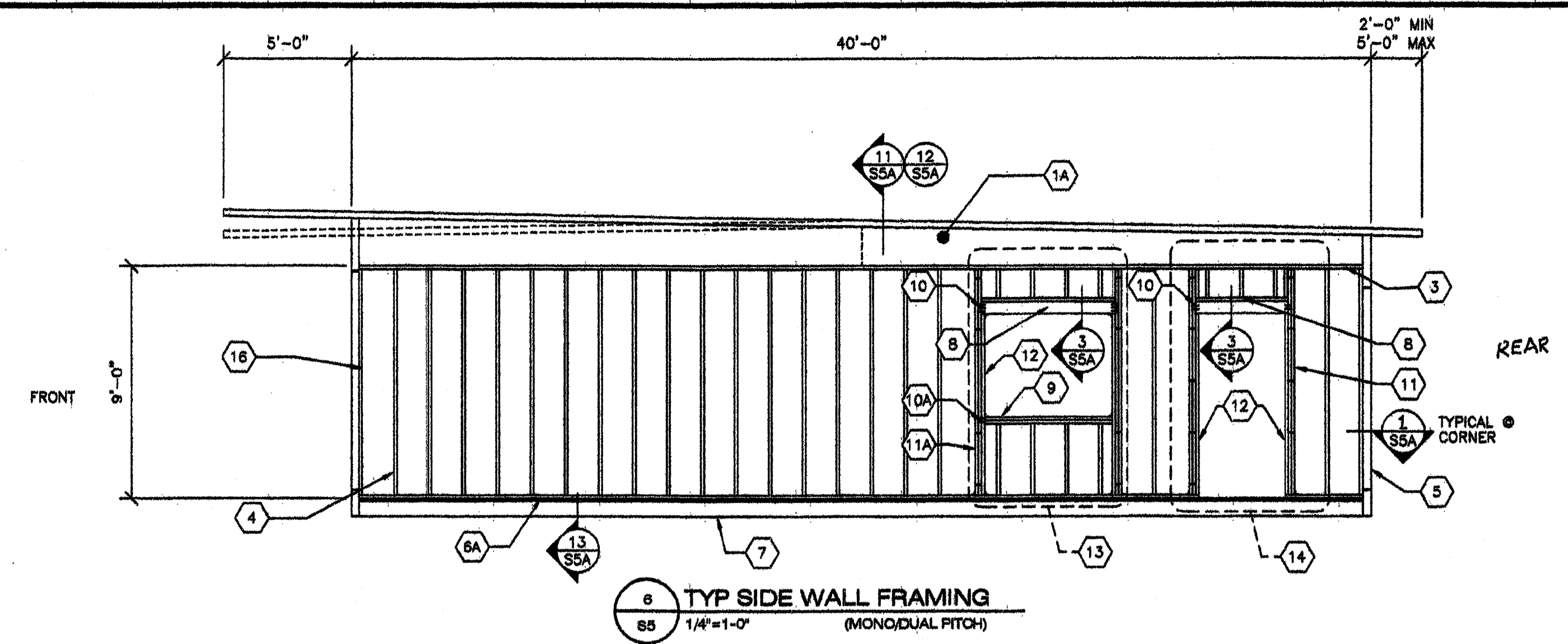
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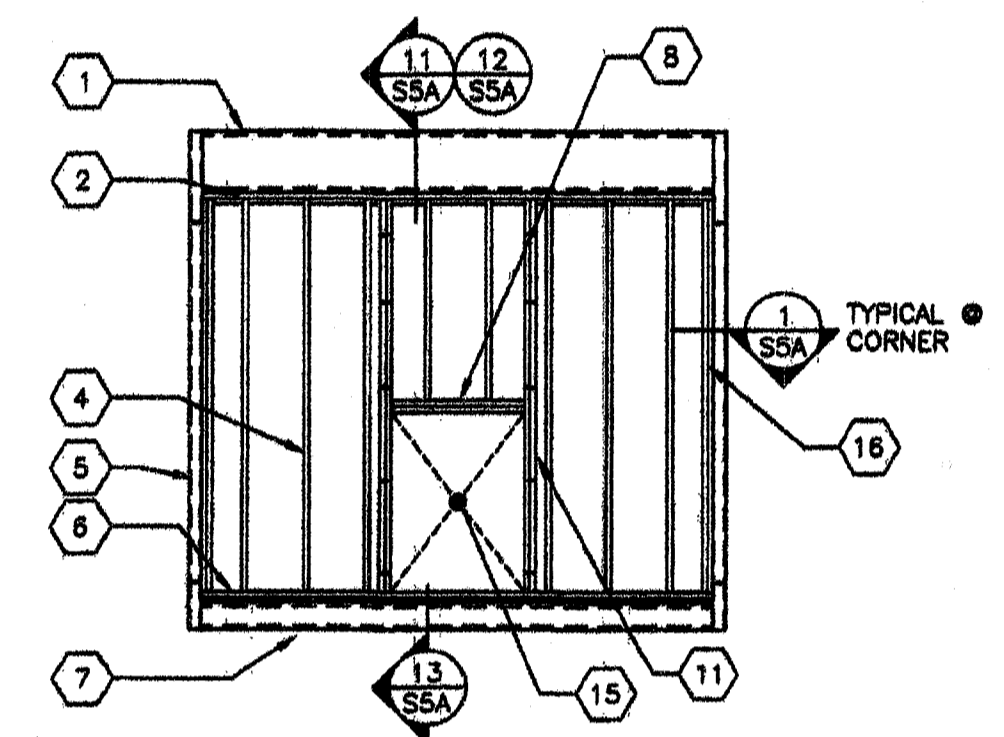
1 TYP END WALL FRAMING W/NO OPENINGS
85 1/4"=1'-0"



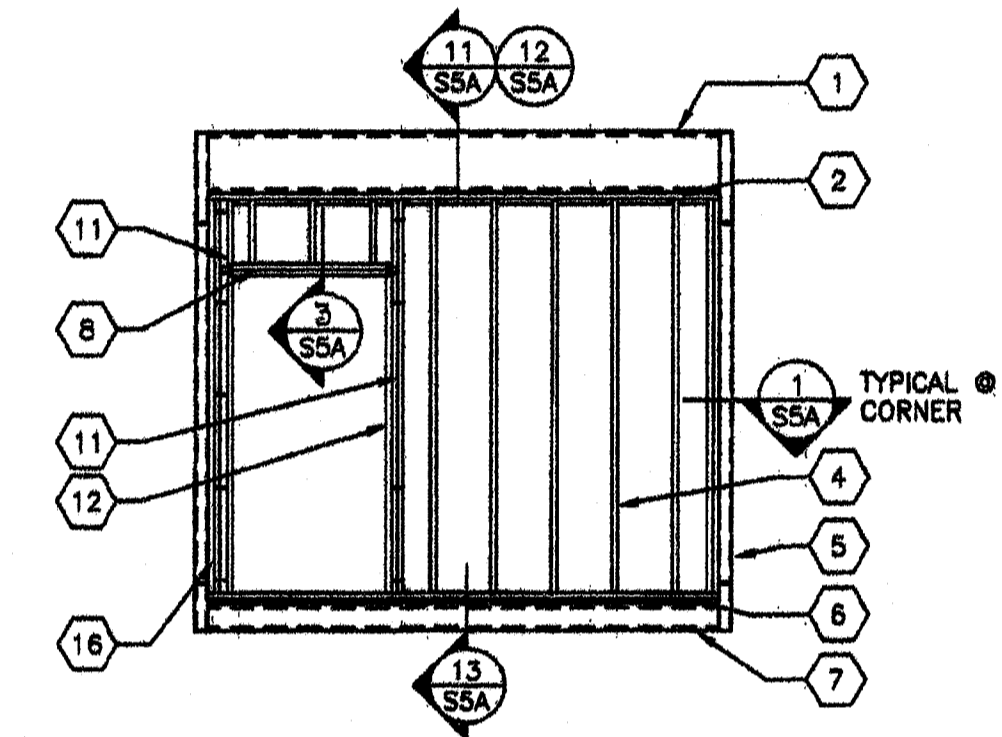
4 TYP END WALL FRAMING W/WINDOW
85 1/4"=1'-0"



6 TYP SIDE WALL FRAMING
85 1/4"=1'-0" (MONODUAL PITCH)

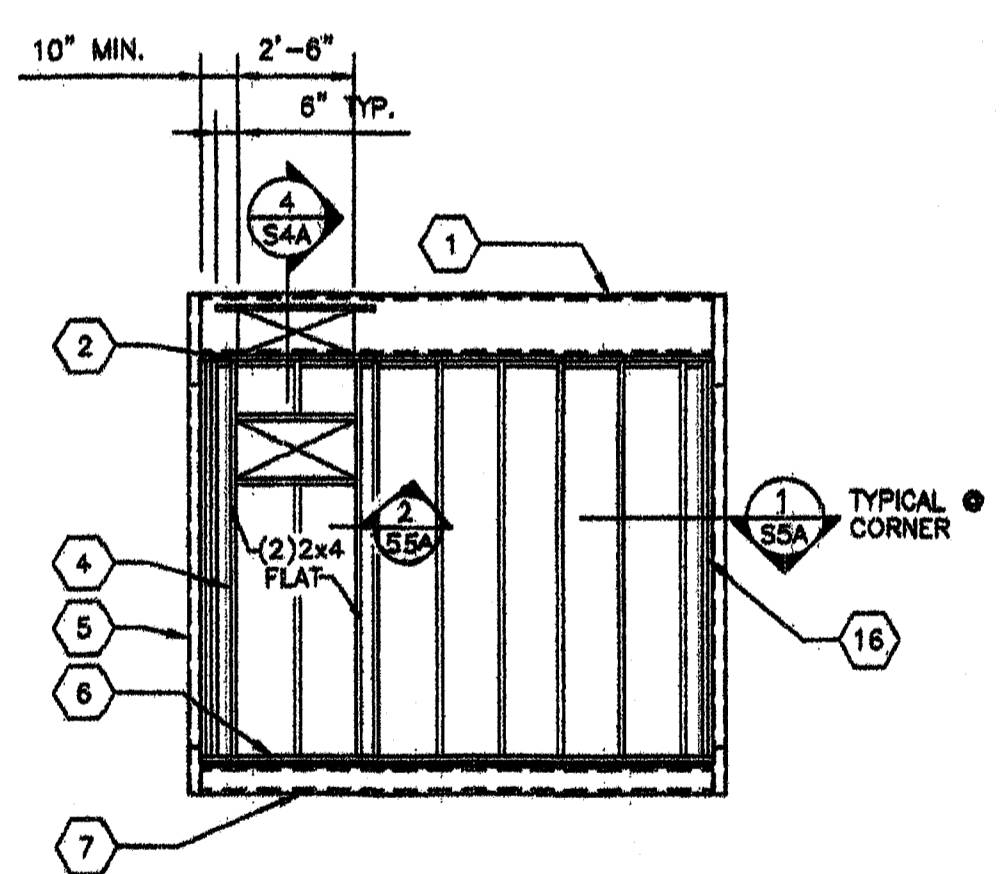


2 TYP END WALL FRAMING W/INDOOR HVAC UNIT
85 1/4"=1'-0" OPTIONAL



5 TYP END WALL FRAMING W/DOOR
85 1/4"=1'-0"

- KEY NOTES -
- 1 ROOF HEADER
 - 1A ROOF BEAM
 - 2 2x4 PLATE NO SPLICE
 - 3 2x4 PLATE
 - 4 2x4 STUDS SPACED PER SCHEDULE TYP. W/ (3) .131x3" NAILS @ EA END
 - 5 HSS COLUMN
 - 6 2x4 BOTTOM PLATE NO SPLICES
 - 6A 2x4 BOTTOM PLATE
 - 7 PERIMETER FLOOR BEAM
 - 8 (2) 2x8 W/ 2x4 FLAT HEADER ALT. (3) FLAT 2x4 HEM FIR. PER DETAIL 3/SSA
 - 9 (2) 2x4 HEM FIR #2 WINDOW SILL PLATE (3) 2x4 HEM FIR #2 OR (2) 2x4 DOUG FIR #2 @ 8' WIDE WINDOW SILL PLATE WITH STUCCO FINISH ONLY
 - 10 (5).131x3" END NAILS THROUGH KING STUD TYP
 - 10A (3) .131"x3" END NAILS THROUGH KING STUD, TYP.
 - 11 (2) 2x4 KING STUDS W/ (2) A34 T&B TO PLATE (INTERNAL W/O.131" NAILS @ 14" OC TYP MAX.)
 - 11A (3) 2x4 KING STUDS W/ (2) A34 T&B TO PLATE (INTERNAL W/O.131" NAILS @ 14" OC TYP MAX.)
 - 12 2x4 TRIMMER
 - 13 OPTIONAL WINDOW OPENING MAX 8'-0" WIDE (REFER TO 4/SS5 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
 - 14 OPTIONAL DOOR OPENING (REFER TO 5/SS5 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
 - 15 HVAC OPENINGS @ INDOOR UNIT
 - 16 2x NAILER



3 TYP END WALL FRAMING W/WALL HUNG HVAC UNIT
85 1/4"=1'-0" OPTIONAL

EXTERIOR WALL FINISH/WALL STUD SCHEDULE					
FINISH TYPE	FOUNDATION TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING TYPICAL	STUD SPACING @ CORNERS
5/8" PLYWOOD SHEATHING 303 CONFORMING TO PS1-95. VERTICAL GROOVES @ 8" OC	WOOD OR CONCRETE	JOINT DETAIL SEE 9/SSA NAILING PER BLDG SECTIONS	HEM FIR #2	@ 16" OC	@ 16" OC
5/8" HARDIBOARD WITH SYNTHETIC STUCCO 5/8" HARDI-LAP SIDING	WOOD OR CONCRETE	PER SHEETS A5, A5A, A6 & A6A	DOUG FIR #2	@ 16" OC	@ 16" OC
5/8" PLYWOOD SHEATHING CONFORMING TO PS1-95, APA RATED, 5 PLY 32/16, EXPOSURE 1 WITH 5/8" STUCCO	CONCRETE ONLY	NAILING PER BLDG SECTIONS	HEM FIR #2	@ 16" OC	@ 12" OC
			DOUG FIR #2	@ 16" OC	@ 16" OC

1. ALL NAILS IN EXTERIOR APPLICATIONS TO BE GALVANIZED.
2. WALL CORNERS ARE DEFINED AS A DISTANCE OF 8 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH 2160 SQ. FT. OR GREATER AND A DISTANCE OF 3 FEET IN BOTH DIRECTIONS FROM EACH CORNER OF BUILDINGS WITH LESS THAN 2160 SQ. FT.
3. TYPICAL PLYWOOD NAILING WHERE OCCURS .131x2 1/4" GALV @ 6" O.C. E.N. & 12" O.C. F.N.

REVISIONS

NO.	DATE	DESCRIPTION

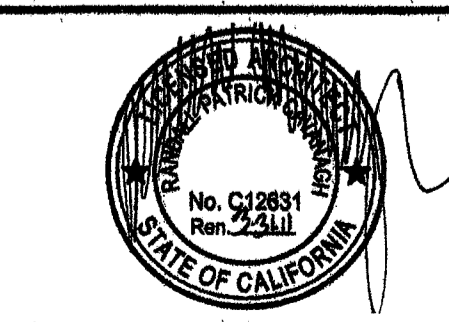
DATE: 02/28/08
SCALE: NOTED
DRAWN BY: DM
SERIAL NO.:

CUSTOMER:

12' x 40' RELOCATABLE BUILDINGS
WALL FRAMING ELEVATIONS



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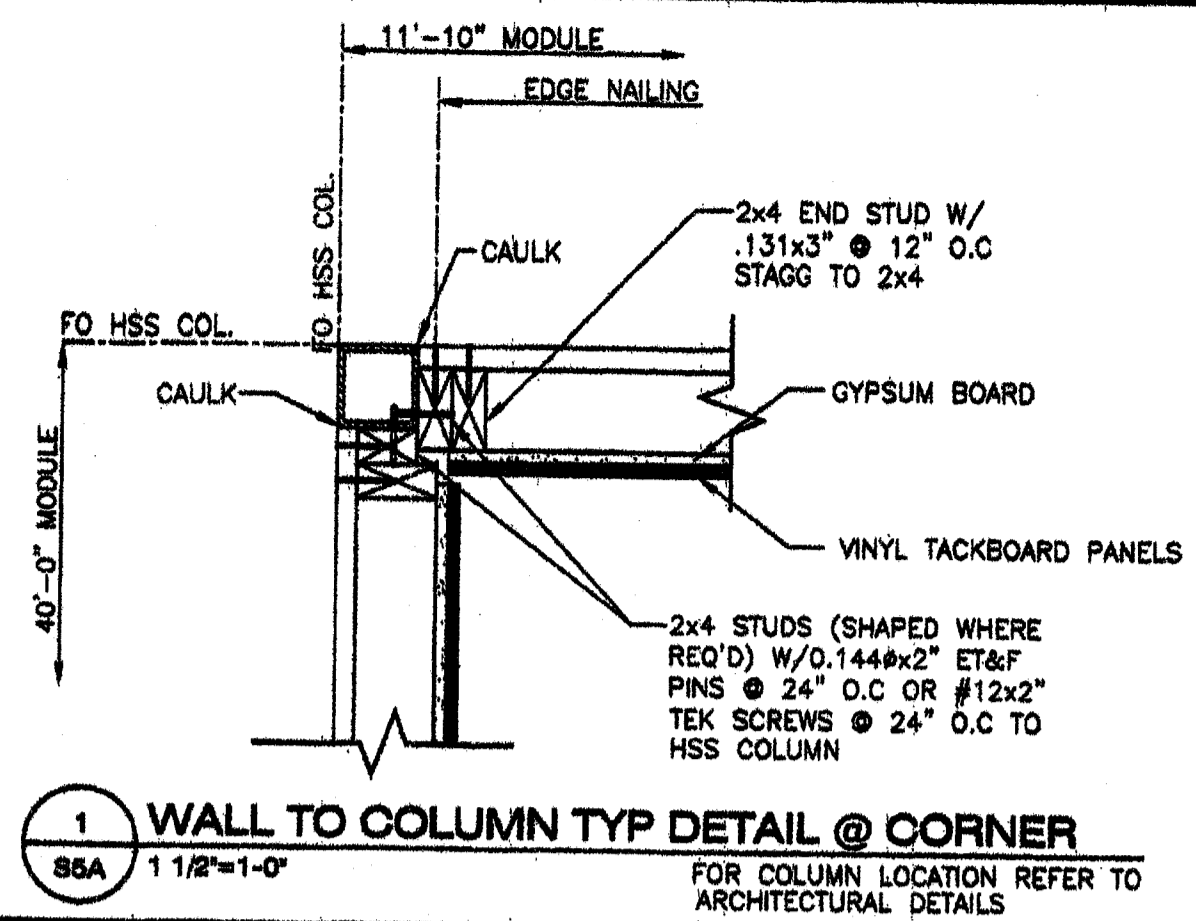


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02_111612
AC: FLS: SE: CP
DATE: 1/12/11

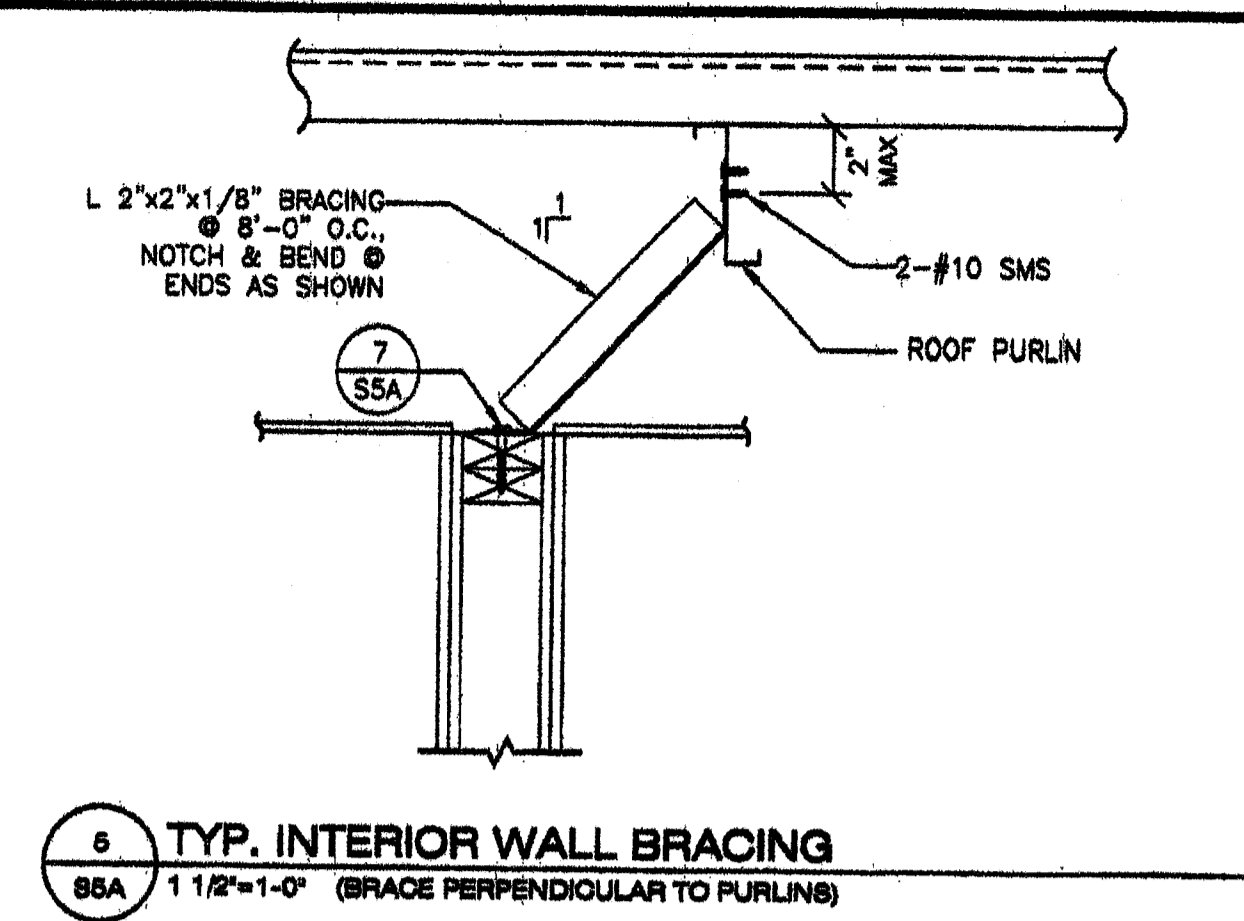
PROJECT NO.

S5

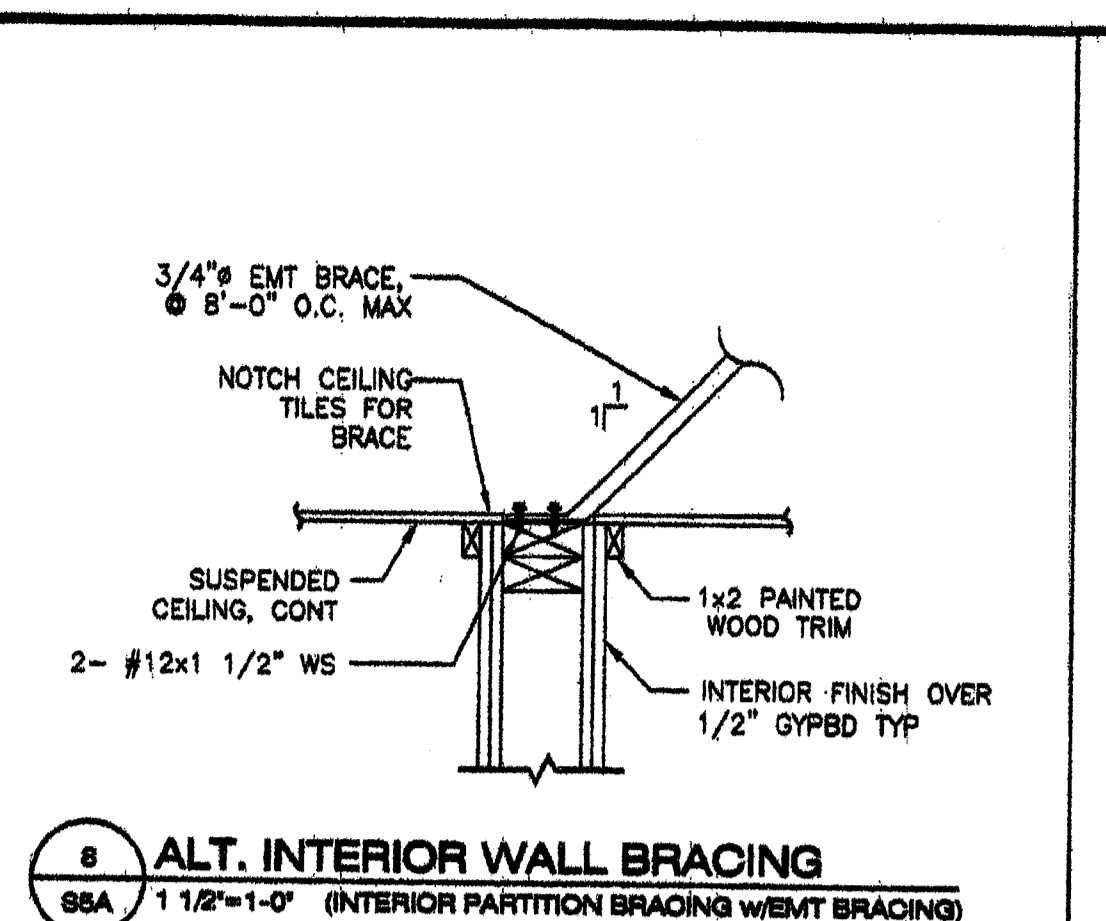
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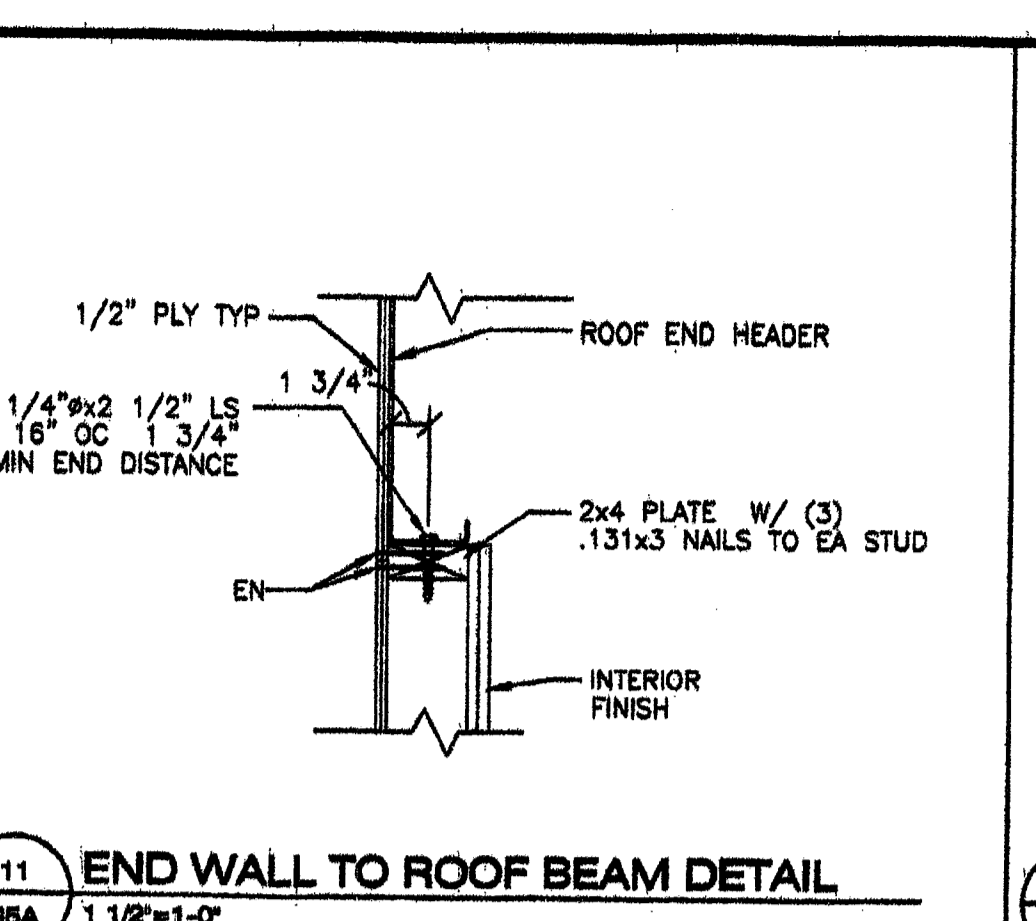
1 WALL TO COLUMN TYP DETAIL @ CORNER
 SBA 1 1/2"=1'-0"
 FOR COLUMN LOCATION REFER TO ARCHITECTURAL DETAILS



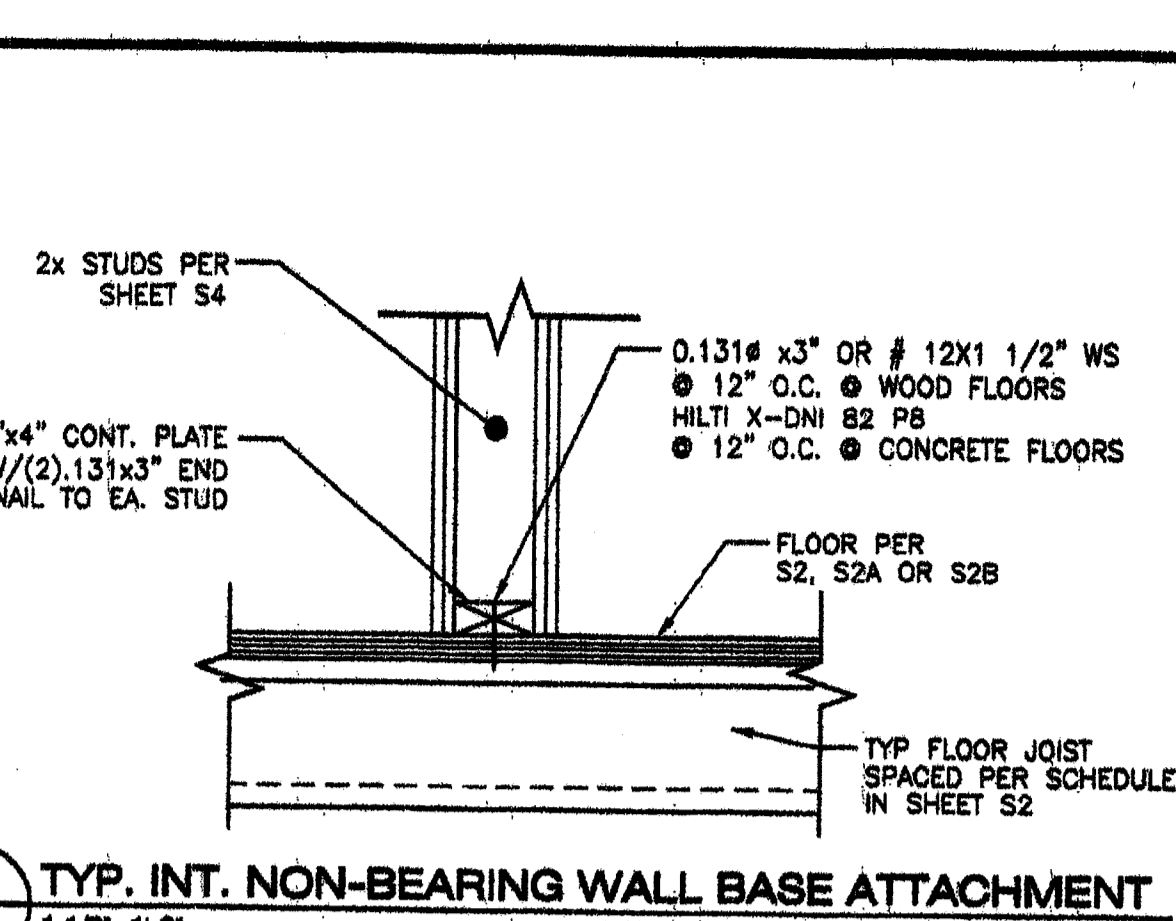
6 TYP. INTERIOR WALL BRACING
 SBA 1 1/2"=1'-0" (BRACE PERPENDICULAR TO PURLIN)



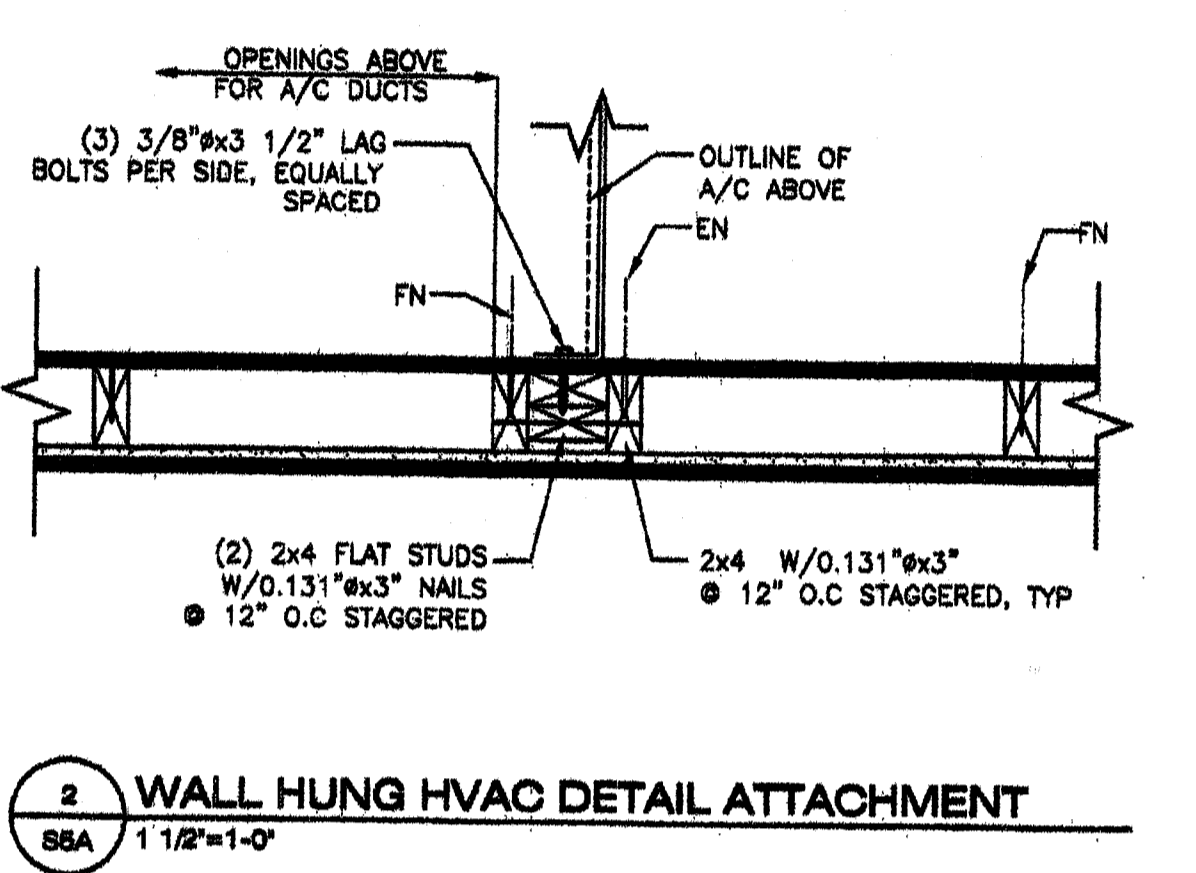
8 ALT. INTERIOR WALL BRACING
 SBA 1 1/2"=1'-0" (INTERIOR PARTITION BRACING w/EMT BRACING)



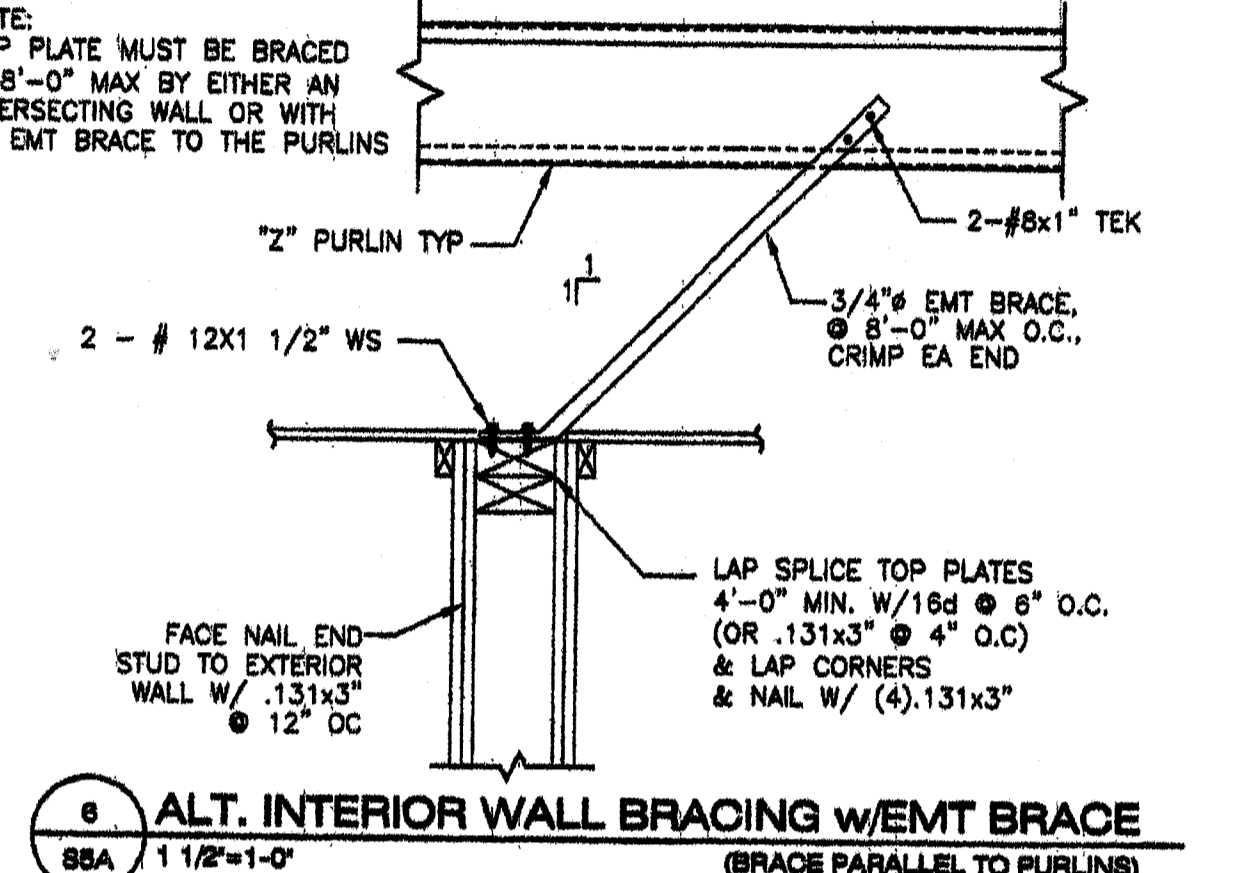
11 END WALL TO ROOF BEAM DETAIL
 SBA 1 1/2"=1'-0"



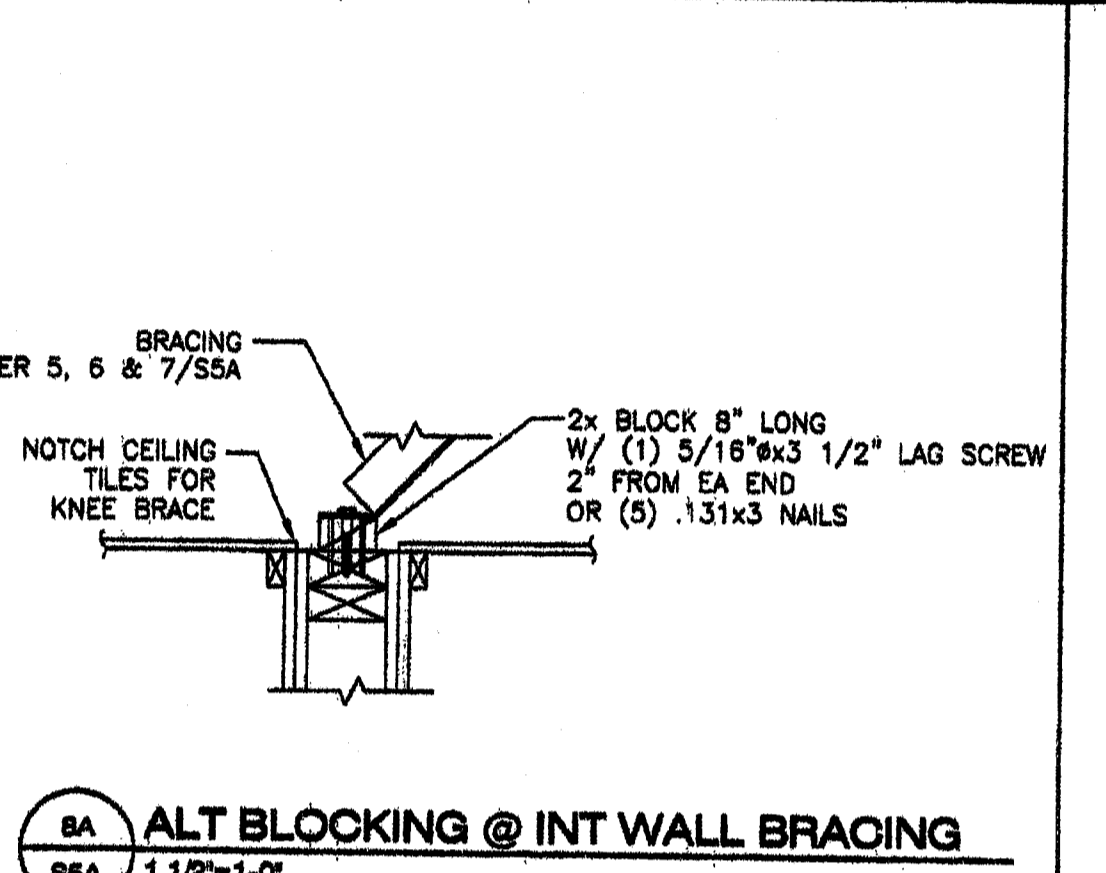
16 TYP. INT. NON-BEARING WALL BASE ATTACHMENT
 SBA 1 1/2"=1'-0" (WALL PERPENDICULAR TO FLOOR JOISTS)



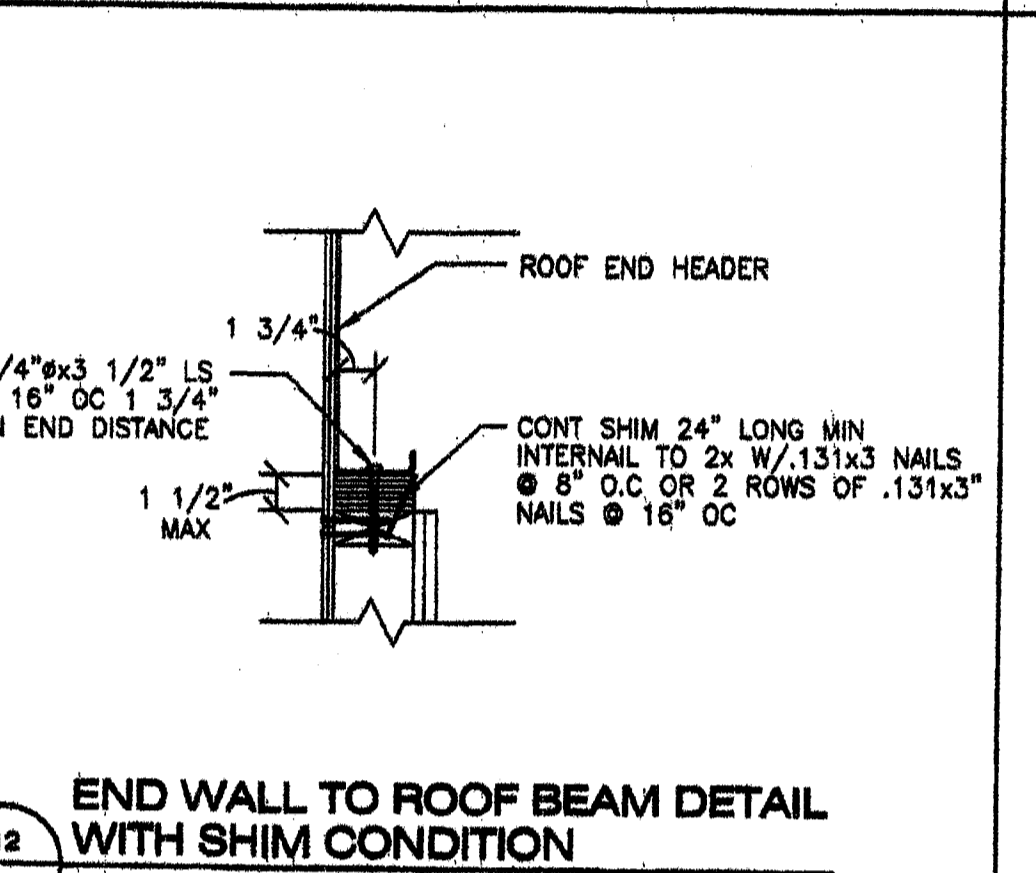
2 WALL HUNG HVAC DETAIL ATTACHMENT
 SBA 1 1/2"=1'-0"



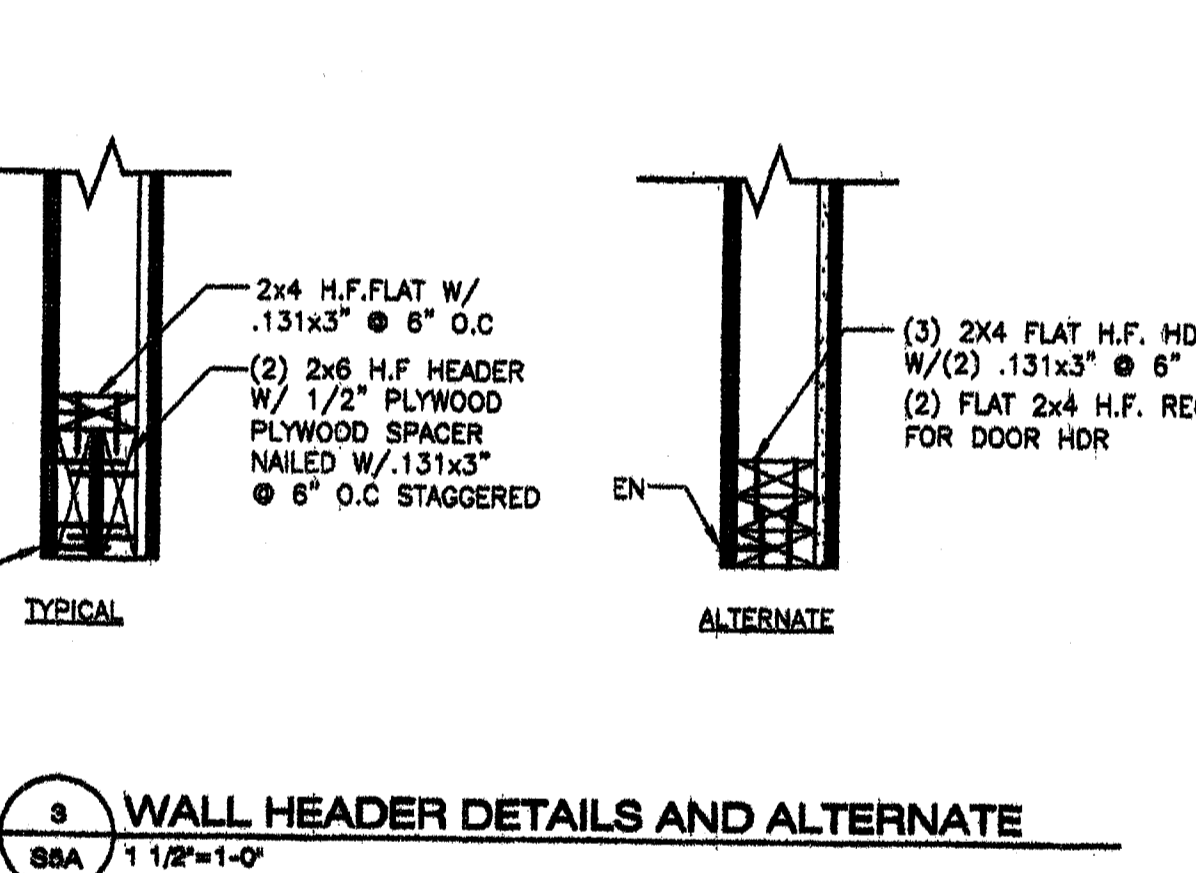
6A ALT. INTERIOR WALL BRACING w/EMT BRACE
 SBA 1 1/2"=1'-0" (BRACE PARALLEL TO PURLIN)



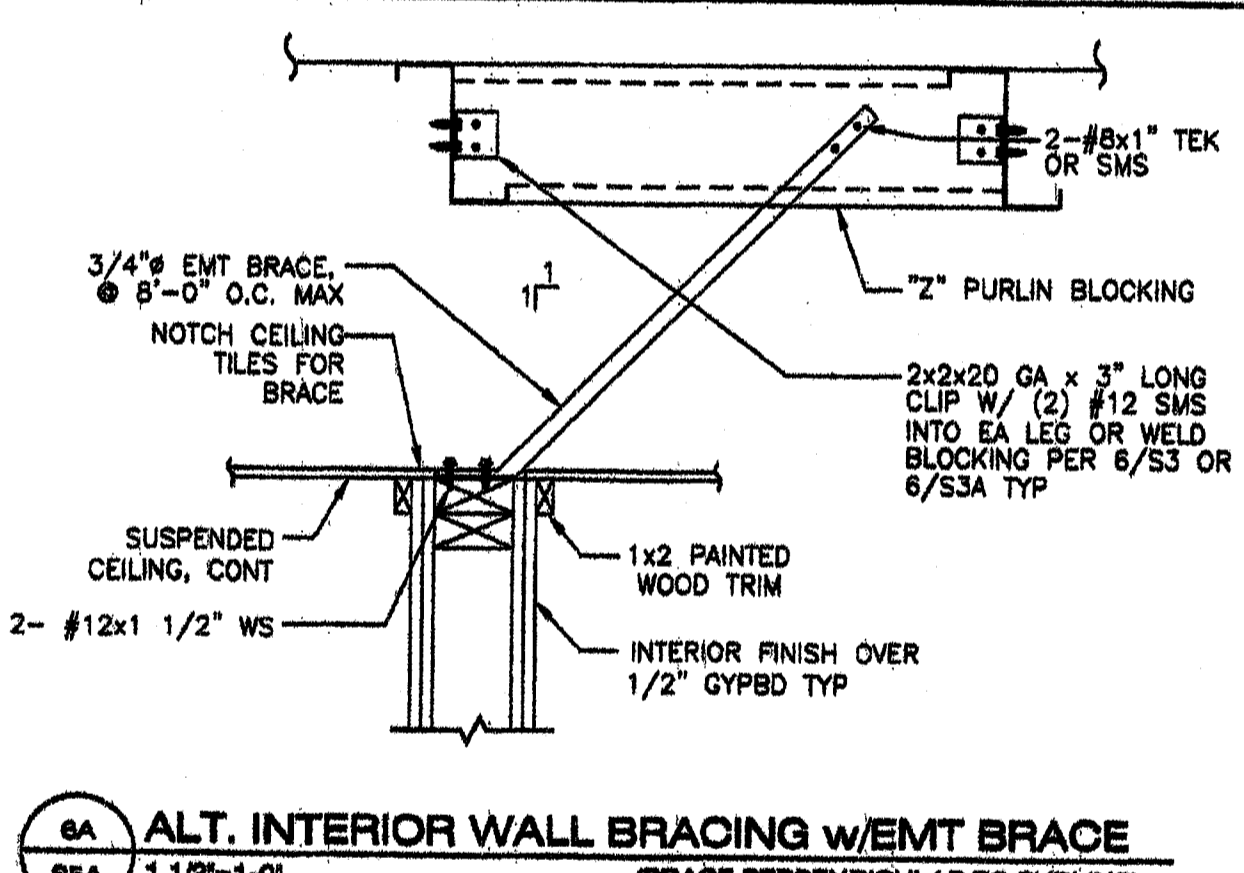
8A ALT BLOCKING @ INT WALL BRACING
 SBA 1 1/2"=1'-0"



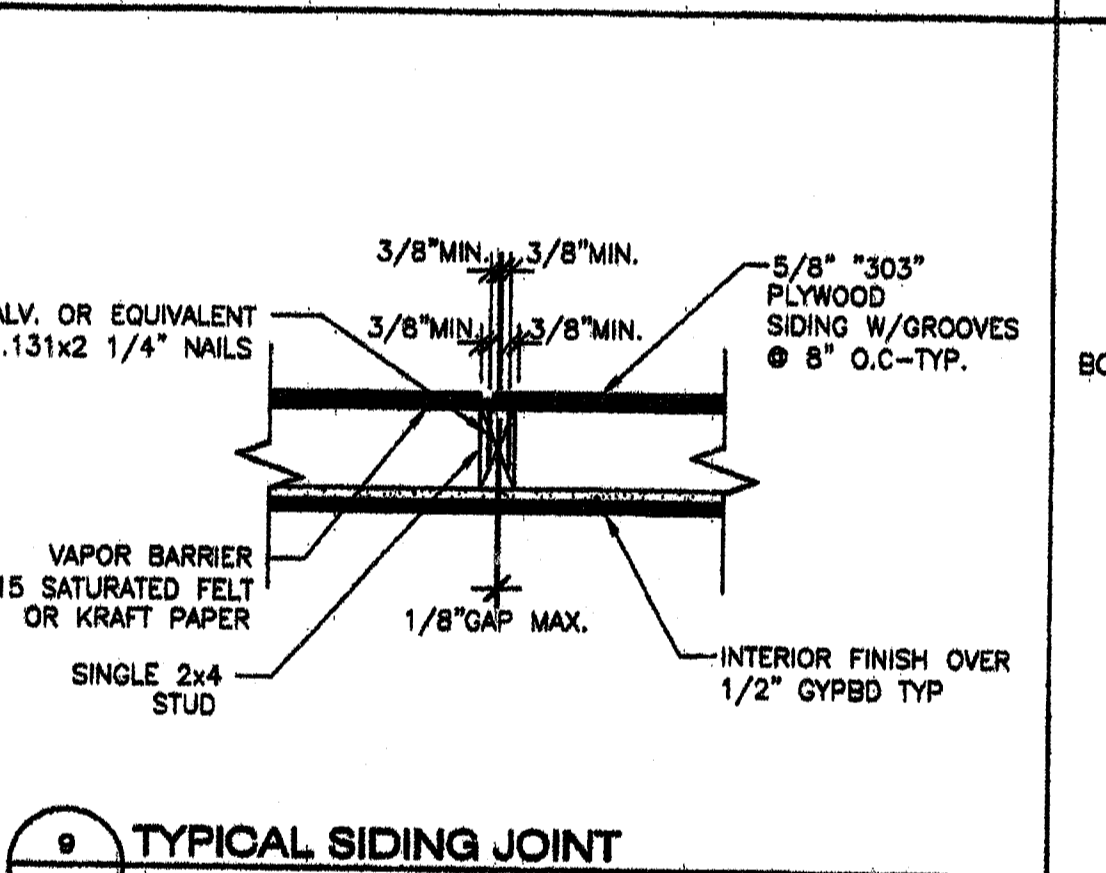
12 END WALL TO ROOF BEAM DETAIL WITH SHIM CONDITION
 SBA 1 1/2"=1'-0"



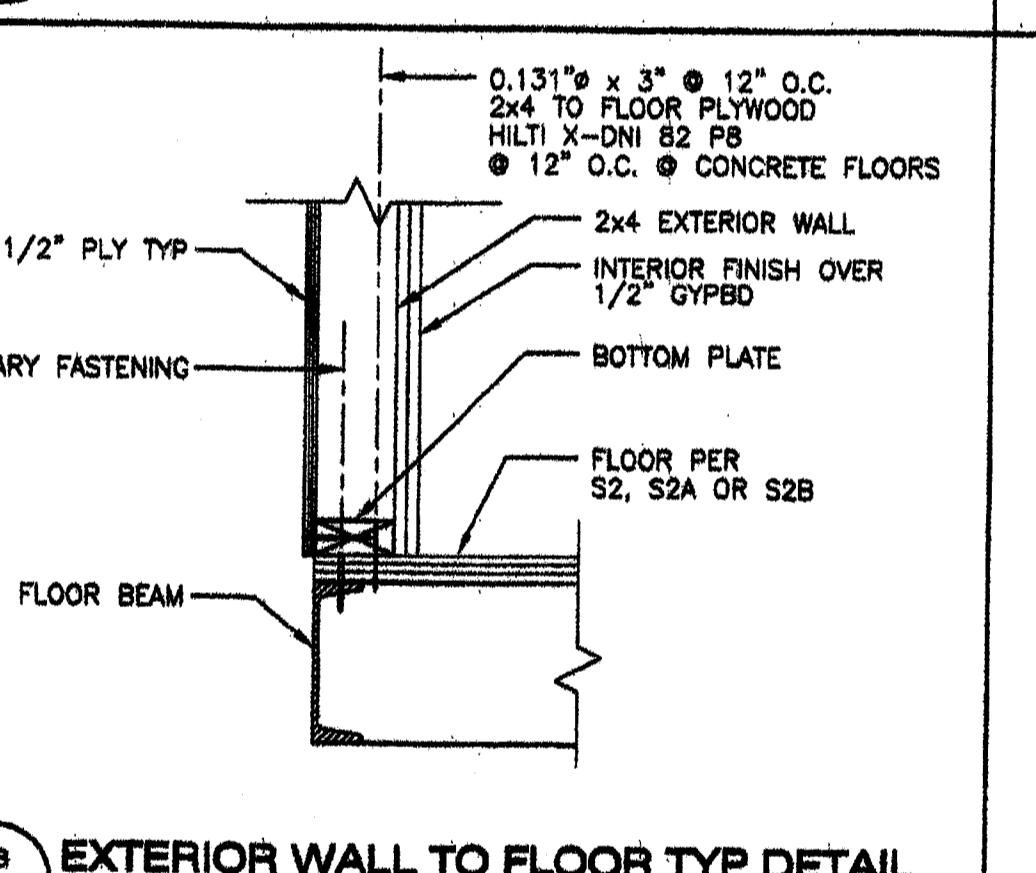
3 WALL HEADER DETAILS AND ALTERNATE
 SBA 1 1/2"=1'-0"



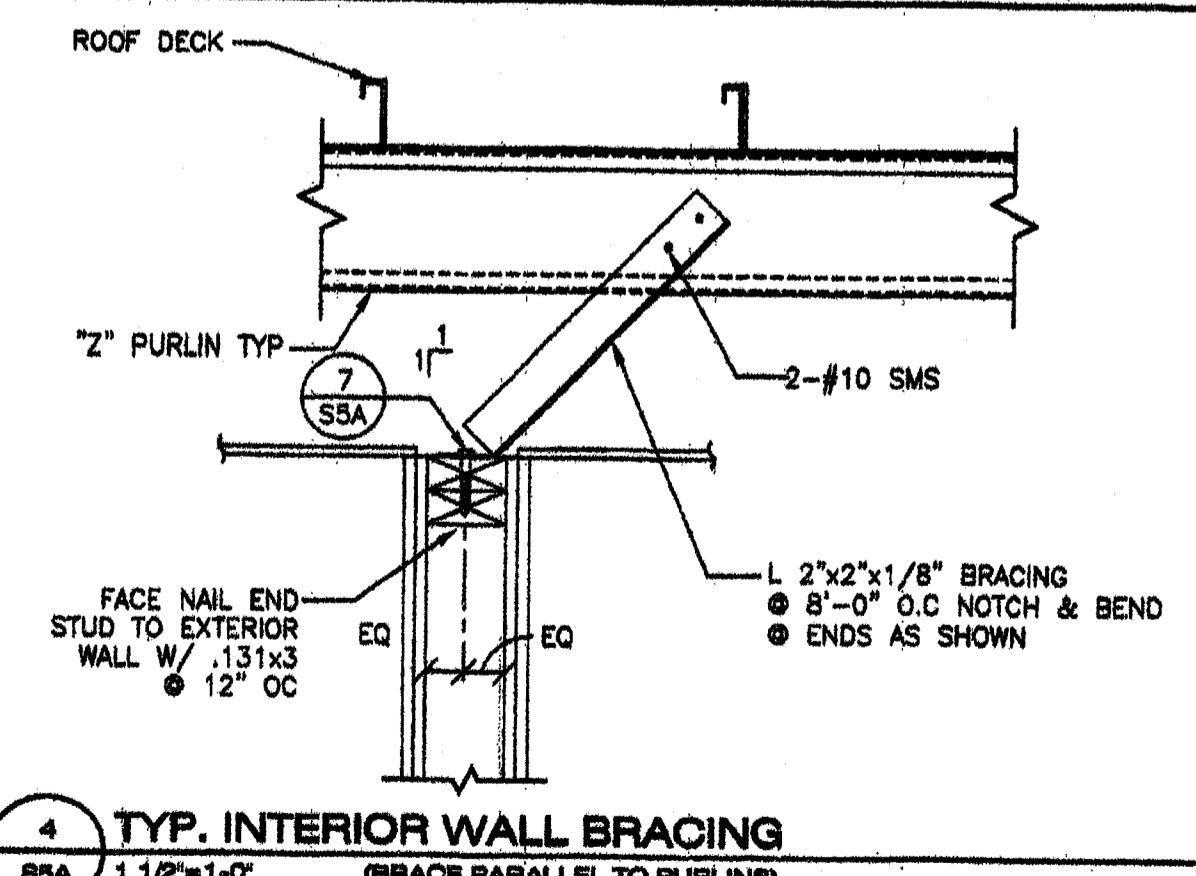
6A ALT. INTERIOR WALL BRACING w/EMT BRACE
 SBA 1 1/2"=1'-0" (BRACE PERPENDICULAR TO PURLIN)



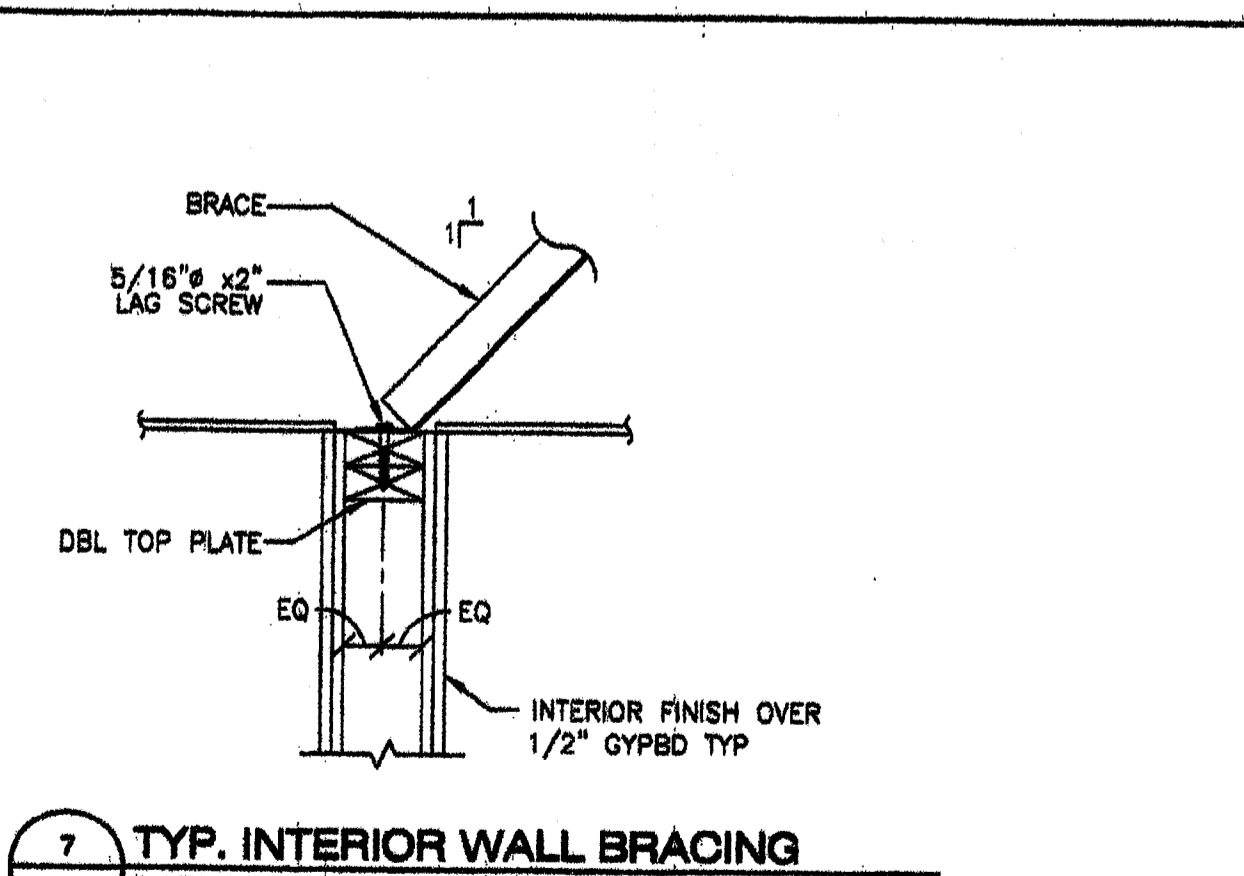
9 TYPICAL SIDING JOINT
 SBA 1 1/2"=1'-0"



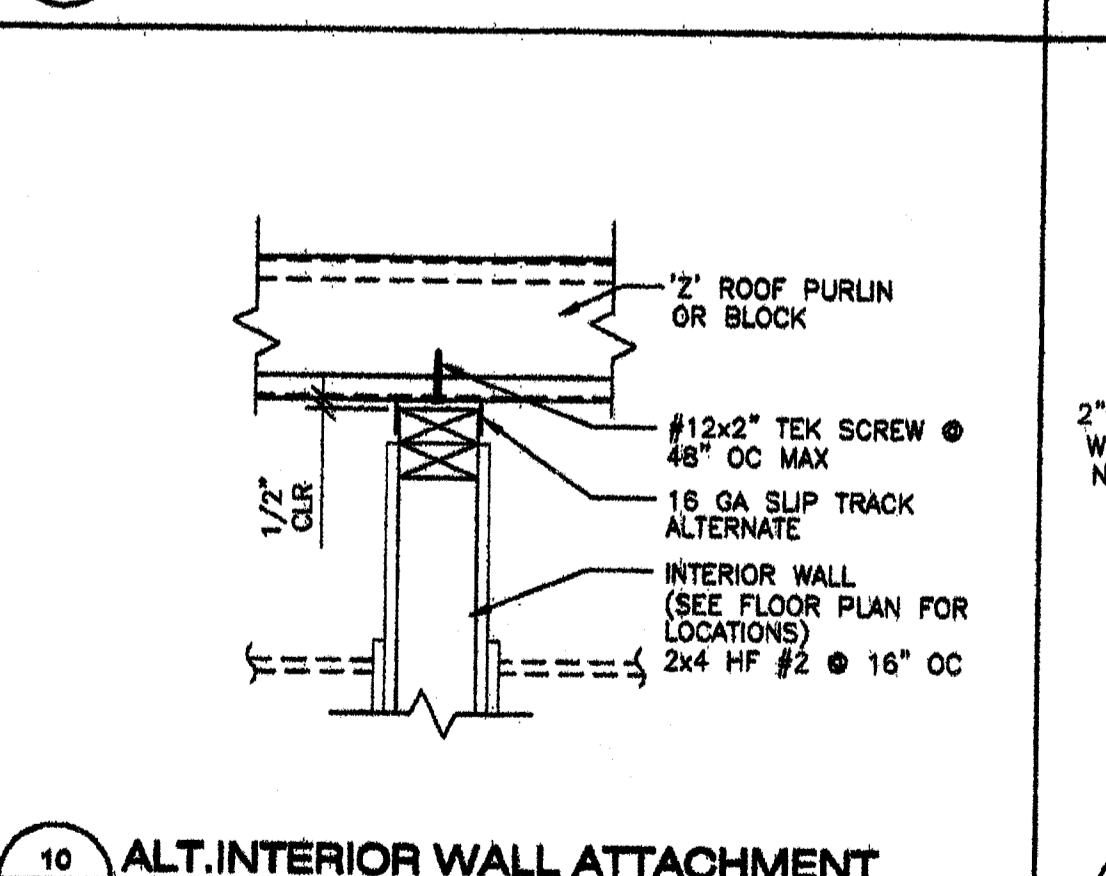
18 EXTERIOR WALL TO FLOOR TYP DETAIL
 SBA 1 1/2"=1'-0"



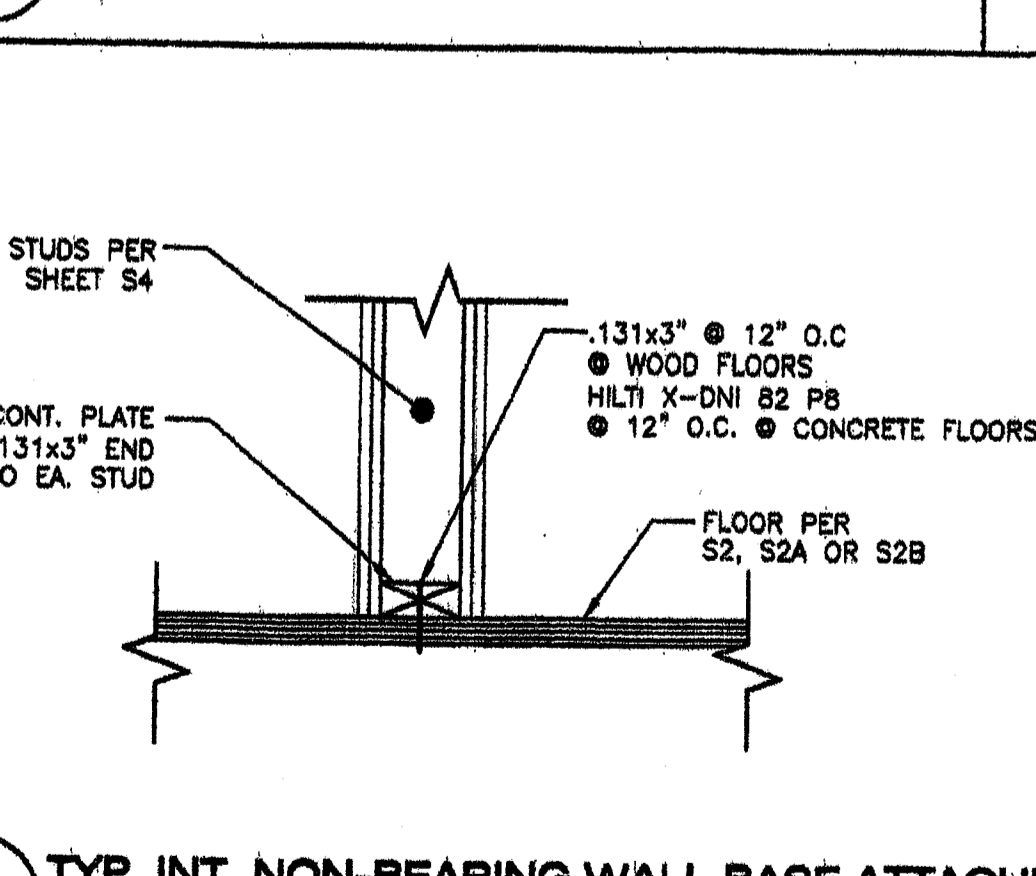
4 TYP. INTERIOR WALL BRACING
 SBA 1 1/2"=1'-0" (BRACE PARALLEL TO PURLIN)



7 TYP. INTERIOR WALL BRACING
 SBA 1 1/2"=1'-0" (INTERIOR PARTITION BRACING)



10 ALT. INTERIOR WALL ATTACHMENT
 SBA 1 1/2"=1'-0"



14 TYP. INT. NON-BEARING WALL BASE ATTACHMENT
 SBA 1 1/2"=1'-0" (WALL PARALLEL TO FLOOR JOISTS)

REVISIONS		
NO	DATE	DESCRIPTION

DATE: 02/25/08
 SCALE: NOTED
 DRAWN BY: DM
 SERIAL NO.:

CUSTOMER:
 12' x 40' RELOCATABLE BUILDINGS
 WALL FRAMING DETAILS

AMS
 American Modular Systems Inc.
 787 Spracosta Ave. Menlo Park, CA 94028
 (650) 825-1921 Fax (650) 825-7018
 americanmodular.com

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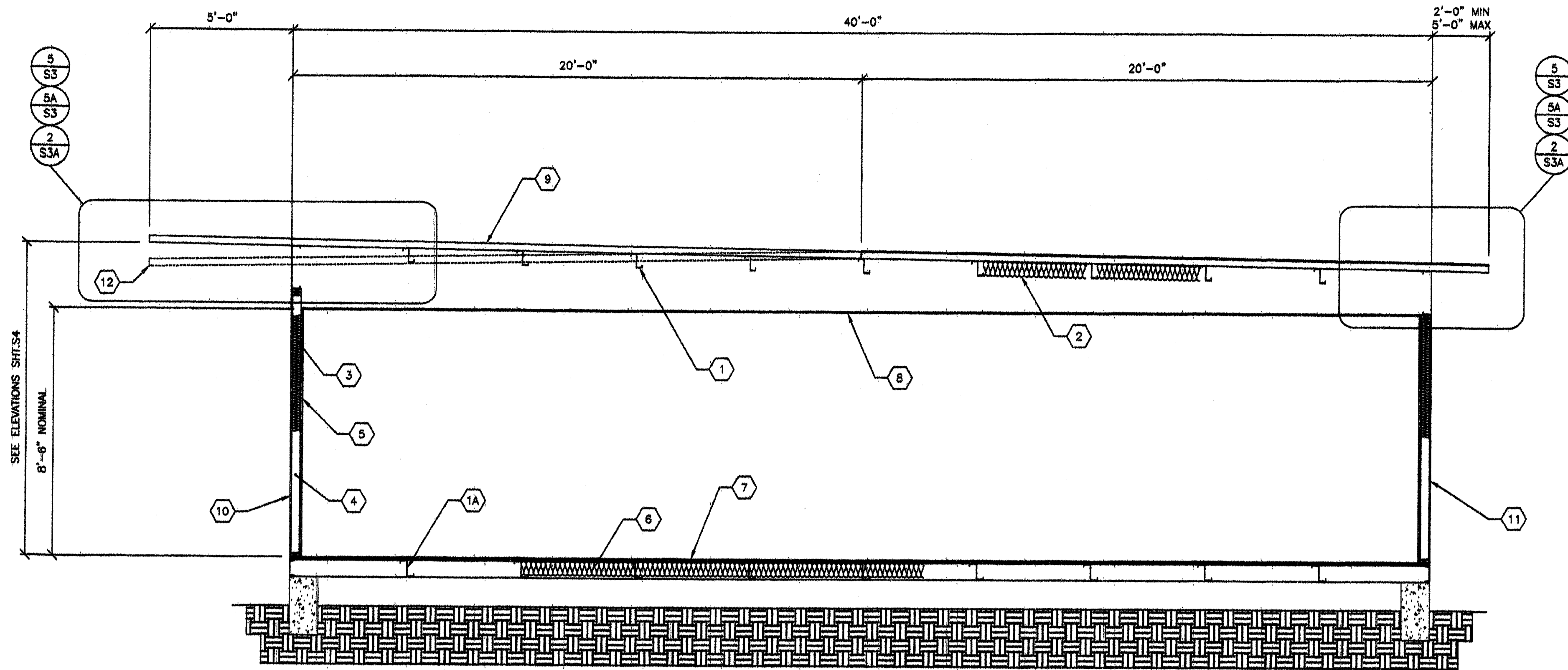
Professional Engineer Seal

STATE OF CALIFORNIA
 No. 02651
 No. 2311

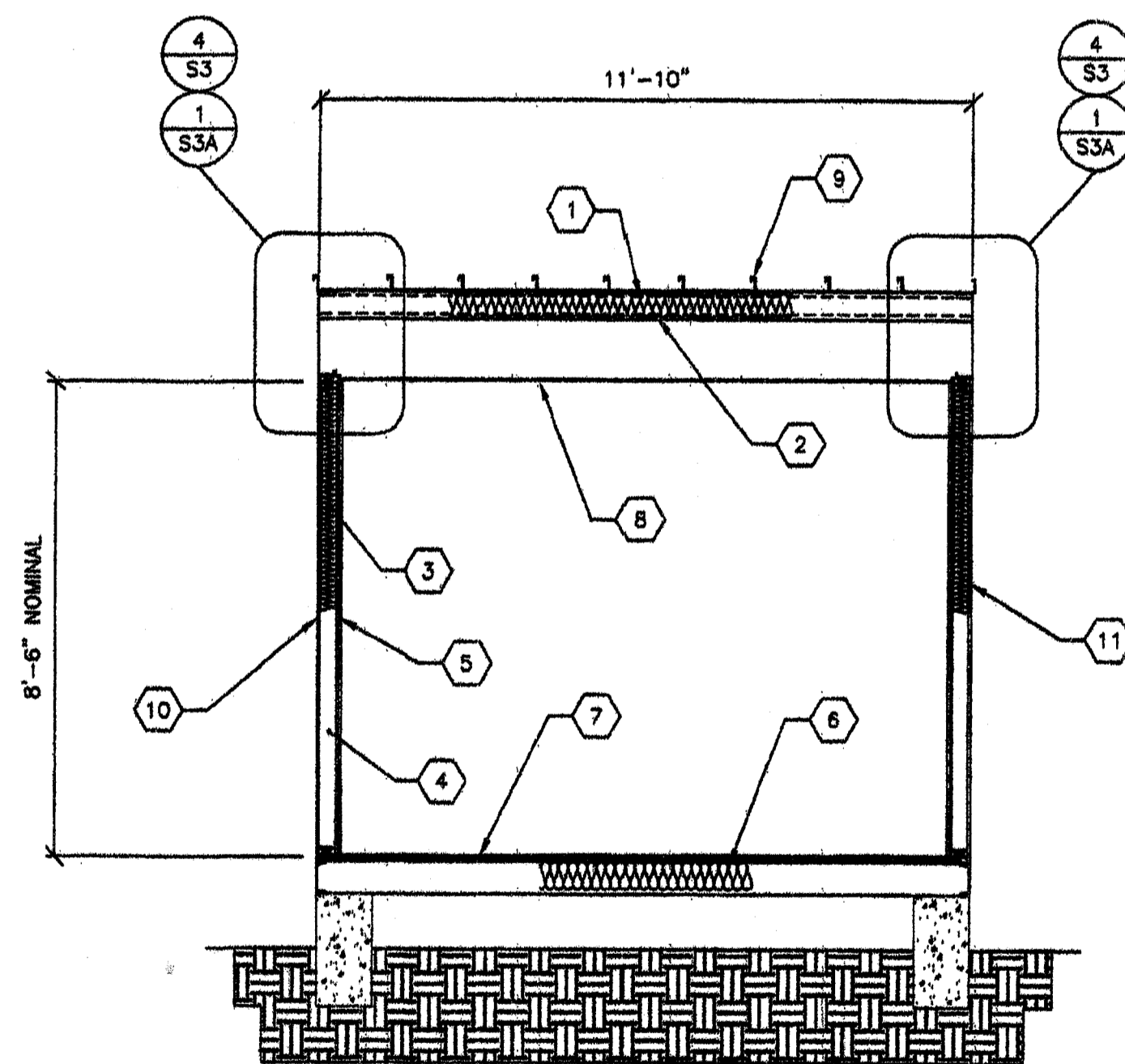
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 OFFICE OF REGULATION SERVICES
 02-11612
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 DATE: 11/2/11

PROJECT No.
S5A

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A TYP. LONGITUDINAL SECTION
 87 3/8"=1'-0" (MONO/DUAL PITCH)



B TYP. TRANSVERSE SECTION
 87 3/8"=1'-0" (MONO/DUAL PITCH)

- KEY NOTES -**
- 1 "Z" PURLINS @ 48" O.C
 - 1A STEEL "Z" FLOOR JOISTS
 - 2 INSULATION w/22 GA WIRE
 - 3 INSULATION w/KRAFT PAPER
 - 4 2x STUDS PER ELEV, S5
 - 5 VINYL FABRIC OVER TACKABLE BACKING PANELS
 - 6 INSULATION w/KRAFT PAPER AND CHICKEN WIRE
 - 7 1/2" PLYWOOD FLOOR SHEATHING FOR ALT SEE SHEET S2, S2A OR S2B
 - 8 SUSPENDED T-BAR CEILING
 - 9 METAL ROOF PANELS SEE ROOF FRAMING PLAN
 - 10 TYPICAL PLYWOOD NAILING .131x2 1/2" GALV @ 6" O.C PANEL EDGES (ALL EDGES BLOCKED). 1.31x2 1/2" GALV @ 12" O.C FIELD
 - 11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
 - 12 ALTERNATE DUAL PITCH

REVISIONS		
NO	DATE	DESCRIPTION

DATE: 02/25/09
 SCALE: NOTED
 DRAWN BY: DM
 SERIAL NO.:

CUSTOMER:
 12' x 40' RELOCATABLE BUILDINGS
 BUILDING SECTIONS

APPROVALS:
 THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.
 [Professional Engineer Seal]

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 02_111612
 AG - FLS - 88 GR
 DATE 1/11/11

PROJECT No.
 S7

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF AMERICAN MODULAR SYSTEMS, INC. AND ARE NOT TO BE REPRODUCED, COPIED OR COPIED IN ANY FORM OR MANNER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT THE WRITTEN AUTHORIZATION OF AMERICAN MODULAR SYSTEMS, INC.

GENERAL NOTES
(TYPICAL FOR ALL RELOCATABLE CLASSROOM BUILDINGS)

- (A) ALL EXISTING ELECTRICAL INFORMATION SHOWN HEREIN HAS BEEN COMPILED FROM PREVIOUS STATE APPROVED CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED BY THE OWNER'S FACILITIES PERSONNEL. IT HAS NOT NECESSARILY BEEN PHYSICALLY FIELD VERIFIED BY THIS OFFICE. USE AND APPLICATION OF THIS INFORMATION SHALL BE CONFINED TO THE PROJECT FOR WHICH IT IS INTENDED.
- (B) ALL EQUIPMENT SHALL HAVE AN INDEPENDENT TESTING LABORATORY LABEL (UL, C.S.A., ETC.) AS REQUIRED BY C.E.C. ARTICLE 110. PROVIDE EVIDENCE OF COMPLIANCE WITH THIS REQUIREMENT WITH EQUIPMENT SUBMITTALS. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO ISSUING PURCHASE ORDERS IF EQUIPMENT PROPOSED IS NOT COMPLIANT WITH THIS REQUIREMENT. WHERE FIELD CERTIFIED PRODUCTS MAY BE REQUIRED FOR FIELD ASSEMBLED COMPONENTS, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. ALL TESTING FEES SHALL BE INCLUDED IN CONTRACTOR'S BID.
- (C) WORKING CLEARANCES ABOVE ELECTRICAL EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF C.E.C. ARTICLE 110. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORKING CLEARANCES FOR EQUIPMENT INSTALLED AS PART OF THIS CONTRACT.
- (D) PROVIDE 1/2" NYLON PULL ROPE IN ALL NEW CONDUIT AND RACEWAY TO ALLOW FUTURE ADDITION OF CONDUCTORS AS REQUIRED, WHETHER OR NOT CONDUCTORS ARE INSTALLED AT THIS TIME.
- (E) WHERE EXISTING CONDUIT IS BEING REUSED ON THE SITE, NEW CONDUCTORS SHALL BE PULLED CONTINUOUS AND UNPLUGGED THROUGH THE EXISTING RACEWAY, RE-FILLING EXISTING CONDUCTORS AS REQUIRED AND PROVIDING A PULL ROPE IN THE EXISTING CONDUIT PER ABOVE.
- (F) FOR ALL UNDERGROUND CONDUIT BETWEEN SWITCHGEAR, SIGNAL TERMINAL CABINETS, OR PERMANENT BUILDINGS AND RELOCATABLE CLASSROOM BUILDINGS, RUN CONDUIT UNDERGROUND TO RELOCATABLE CLASSROOM BUILDING PER PLANS. AT THE RELOCATABLE CLASSROOM BUILDING, CONVERT PVC TO PVC WRAPPED RIGID CONDUIT AT 18" BELOW FINISH GRADE, THEN RISE CONDUIT FROM UNDERGROUND ON THE EXTERIOR WALL OF THE RELOCATABLE BUILDING AND CONVERT FROM PVC WRAPPED RIGID CONDUIT TO W.P. EMT AT 4" A.F.F. CONTINUE TO RELOCATABLE BUILDING PANEL, SIGNAL TERMINAL CABINET, OR EXTERIOR MOUNTED DISTRIBUTION BUTTER ATTACHING CONDUIT TO BUILDING STRUCTURE PER C.E.C. ARTICLE 358 REQUIREMENTS AND PROVIDE ALL FITTINGS, CONDULETS, ETC. AS REQUIRED TO CONNECT CONDUIT TO PANEL, SIGNAL TERMINAL CABINET OR EXTERIOR MOUNTED DISTRIBUTION BUTTER WHETHER LOCATED INSIDE BUILDING OR MOUNTED TO EXTERIOR WALL AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY ALL.
- (G) FOR ALL ELECTRICAL EQUIPMENT BEING REMOVED, PROVIDE THE OWNER WITH THE FIRST RIGHT OF REFUSAL. IF OWNER EXERCISES THE FIRST RIGHT, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SUCH REFERRED EQUIPMENT COMPLETE AND IN A PROPER MANNER.
- (H) RELOCATABLE CLASSROOM MANUFACTURER SHALL PROVIDE AND INSTALL ALL ELECTRICAL CONDUIT, OUTLET, LIGHTING, PANELS AND TERMINAL CABINETS AS SHOWN ON THE RELOCATABLE CLASSROOM BUILDING MANUFACTURER'S BUILDING DRAWINGS.
- (J) RELOCATABLE BUILDING MANUFACTURER SHALL PROVIDE AND INSTALL 45 JUNCTION BOXES WITH SINGLE GANG PLASTER RINGS FOR COMMUNICATION AND FIRE ALARM SYSTEM OUTLETS.
- (L) CONTRACTOR SHALL SUPPLY ALL BACK BOXES FOR CLOCK AND SPEAKER OUTLETS. INSTALL ALL SIGNAL SYSTEMS DEVICES AND WIRING AND CONNECT SAME PER ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- (M) CONTRACTOR SHALL USE JUNCTION BOXES PROVIDED BY THE RELOCATABLE BUILDING MANUFACTURER TO THE FULLEST EXTENT POSSIBLE. WHEN NOT POSSIBLE, NEW JUNCTION AND/OR PULL BOXES SHALL BE PROVIDED AT LOCATIONS ON THE BUILDING ELECTRICAL FLOOR PLAN DRAWINGS.
- (N) PROVIDE FLEXIBLE CONDUIT CONNECTION BETWEEN BUILDING MODULES, TYPICAL WHERE BUILDING MODULE LINES OCCUR. CONTRACTOR SHALL VERIFY EXACT LOCATIONS WITH RELOCATABLE BUILDING MANUFACTURER.
- (P) WHERE SURFACE MOUNTED RACEWAY IS REQUIRED WITHIN THE RELOCATABLE CLASSROOM BUILDING, USE SURFACE METAL RACEWAY, WIREMOLD #100 SERIES OR APPROVED EQUAL. VERIFY ANY SURFACE RACEWAY ROUTING AND FINISH WITH THE ARCHITECT PRIOR TO ORDERING MATERIALS AND COMMENCING WORK.
- (Q) CONTRACTOR SHALL COORDINATE ALL ELECTRICAL ROUGH-IN, POWER CONNECTION AND SITE DISTRIBUTION REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION AND RELOCATABLE BUILDING MANUFACTURER AND/OR RELOCATABLE BUILDING MANUFACTURER'S BUILDING DRAWINGS.
- (R) THE SEISMIC ANCHORAGE MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS TITLE 24, 2001 CALIFORNIA CODE SECTION 1613A AND TABLE 1607A. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
- (S) CONTRACTOR SHALL WARRANT ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK BY OWNER.

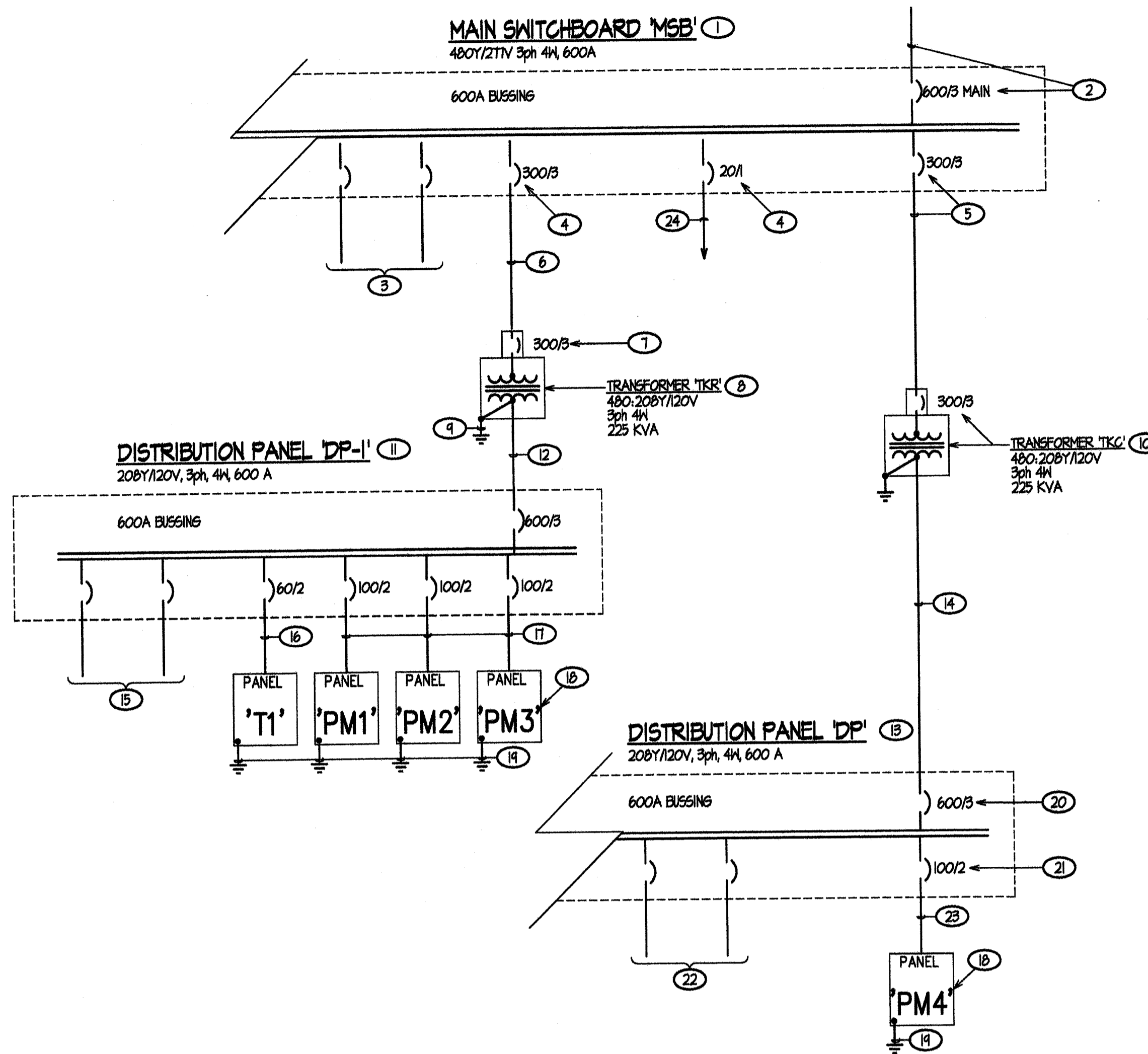
CODES, RULES & REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, TITLE 24, 2001 CALIFORNIA CODE OF REGULATIONS, 2001 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

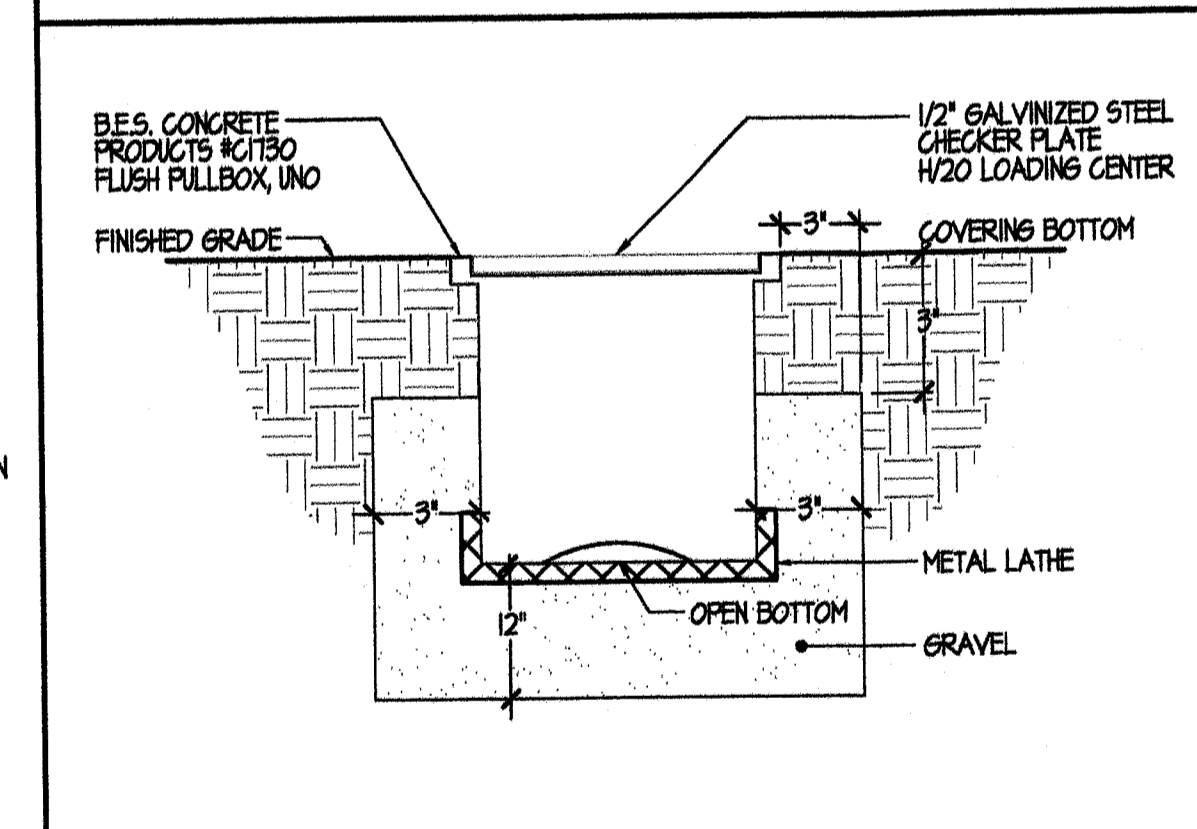
ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	NOTES
(2-A-100)	DENOTES LIGHTING FIXTURE CIRCUIT, FIXTURE TYPE AND FIXTURE WATTAGE	
U.G.	DENOTES UNDERGROUND INSTALLATION	
W.P.	WEATHERPROOF	
A.F.F.	DENOTES ABOVE FINISHED FLOOR	
U.O.N.	UNLESS OTHERWISE NOTED	
(1)	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.	
(4)	HOME RUN 3/4" C. MINIMUM, (DENOTES PANEL A. CIRCUIT #1)	
(—)	CONDUIT RUN IN WALL OR ATTIC (1/2" C - 2 #12 AWG THIN + 1 #12 GND)	(1)
(—)	CONDUIT RUN IN FLOOR OR U.G. (1/2" C - 2 #12 AWG THIN + 1 #12 GND)	(1)
(—)	CONDUIT RUN: DENOTES 1/2" C - 3 #12 AWG CU THIN + 1 #12 CU GND	(1)
(—)	ELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL	
(—)	ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL	
(J)	JUNCTION BOX PROVIDED BY BUILDING MANUFACTURER, U.O.N.	
(J)	JUNCTION BOX PER PLANS.	
(U)	UNDERGROUND SYSTEMS PULL BOX PER PLANS.	
(S)	OCCUPANCY SENSOR SYSTEM SWITCHPACK PER PLANS.	
(M)	OCCUPANCY SENSOR MOTION DETECTOR PER PLANS.	
(L)	WALL MOUNTED LIGHTING FIXTURE PER PLANS.	
(N)	WALL MOUNTED NIGHT LIGHTING FIXTURE	
(I)	INTERCOM HANDESET PER PLANS.	
(TV)	TELEVISION OUTLET 48" A.F.F., U.O.N.	
(S)	SURFACE MOUNTED INTERCOM SPEAKER PER PLANS.	
(F)	FIRE ALARM MASTER CONTROL PANEL PER PLANS.	
(F)	FIRE ALARM MANUAL PULL STATION 48" A.F.F., U.O.N.	
(SD)	FIRE ALARM SMOKE DETECTOR ON CEILING, U.O.N.	
(HD)	FIRE ALARM HEAT DETECTOR IN ACCESSIBLE ATTIC, U.O.N.	
(DD)	FIRE ALARM DUCT SMOKE DETECTOR IN AIR CONDITIONING DUCT.	
(V)	FIRE ALARM VISUAL ALARM UNIT @ 48" MINIMUM, U.O.N.	
(AV)	FIRE ALARM HORN/STROBE ALARM UNIT @ 48" MINIMUM, U.O.N.	
(H)	FIRE ALARM HORN MOUNTED ON CEILING, U.O.N.	
(H)	FIRE ALARM MINI-HORN, MOUNTED ON CEILING, U.O.N.	
(M)	FIRE ALARM SIGNALING CIRCUIT END OF LINE RESISTOR LOCATED AT THE FIRE ALARM MASTER PANEL, U.O.N.	

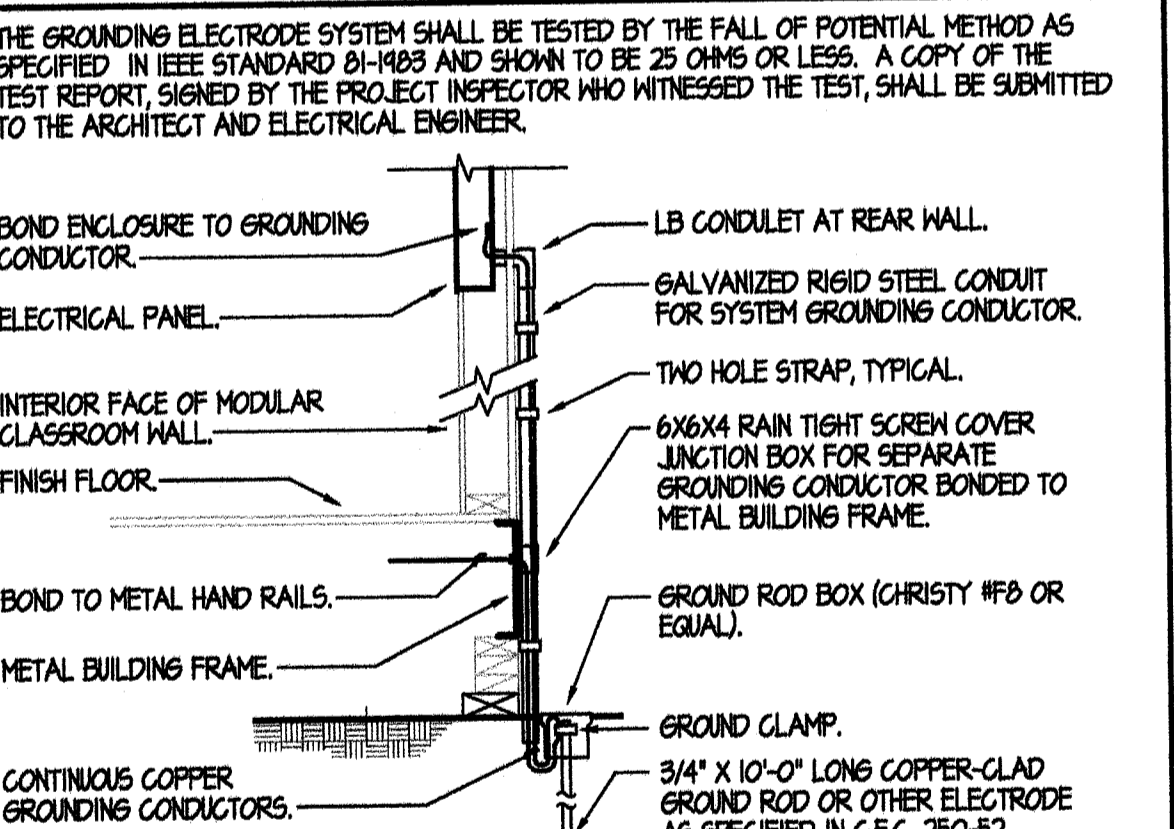
- NOTES**
- (1) ALL UNDERGROUND SITE CONDUIT SHALL BE MINIMUM 3/4" C. UNLESS NOTED OTHERWISE.
 - (2) REFER TO 66 FOR FIRE ALARM DEVICE SCHEDULE



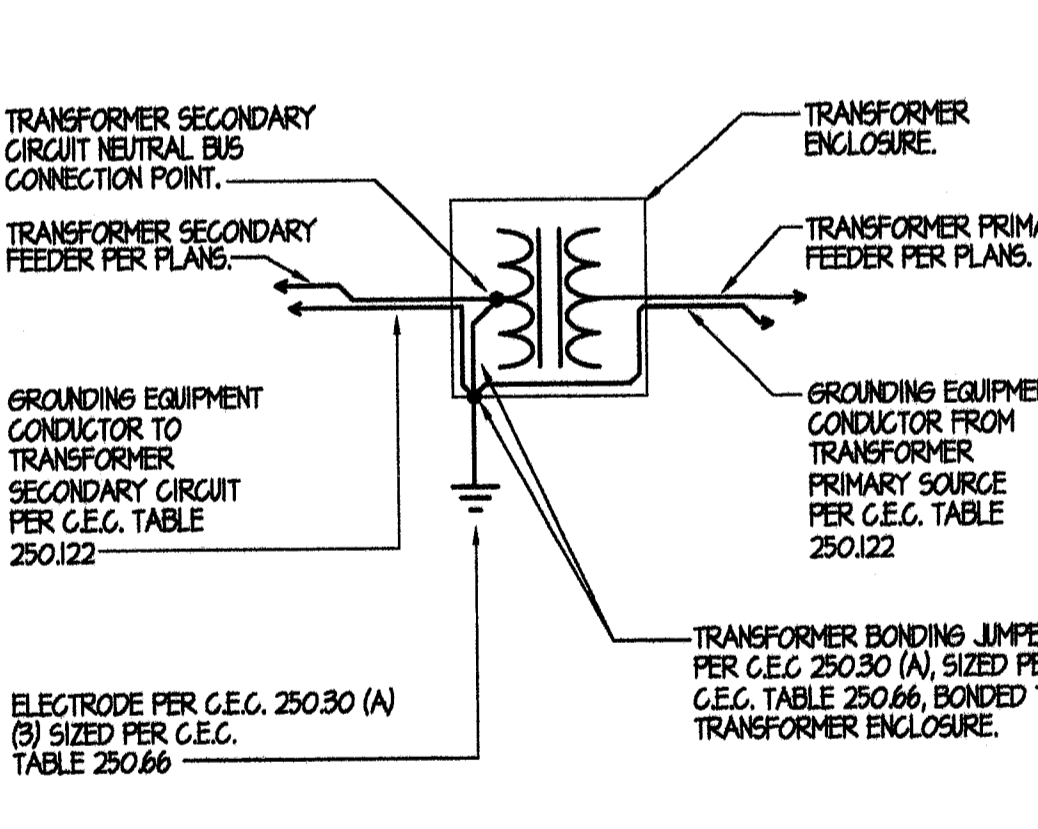
1 SINGLE LINE DIAGRAM



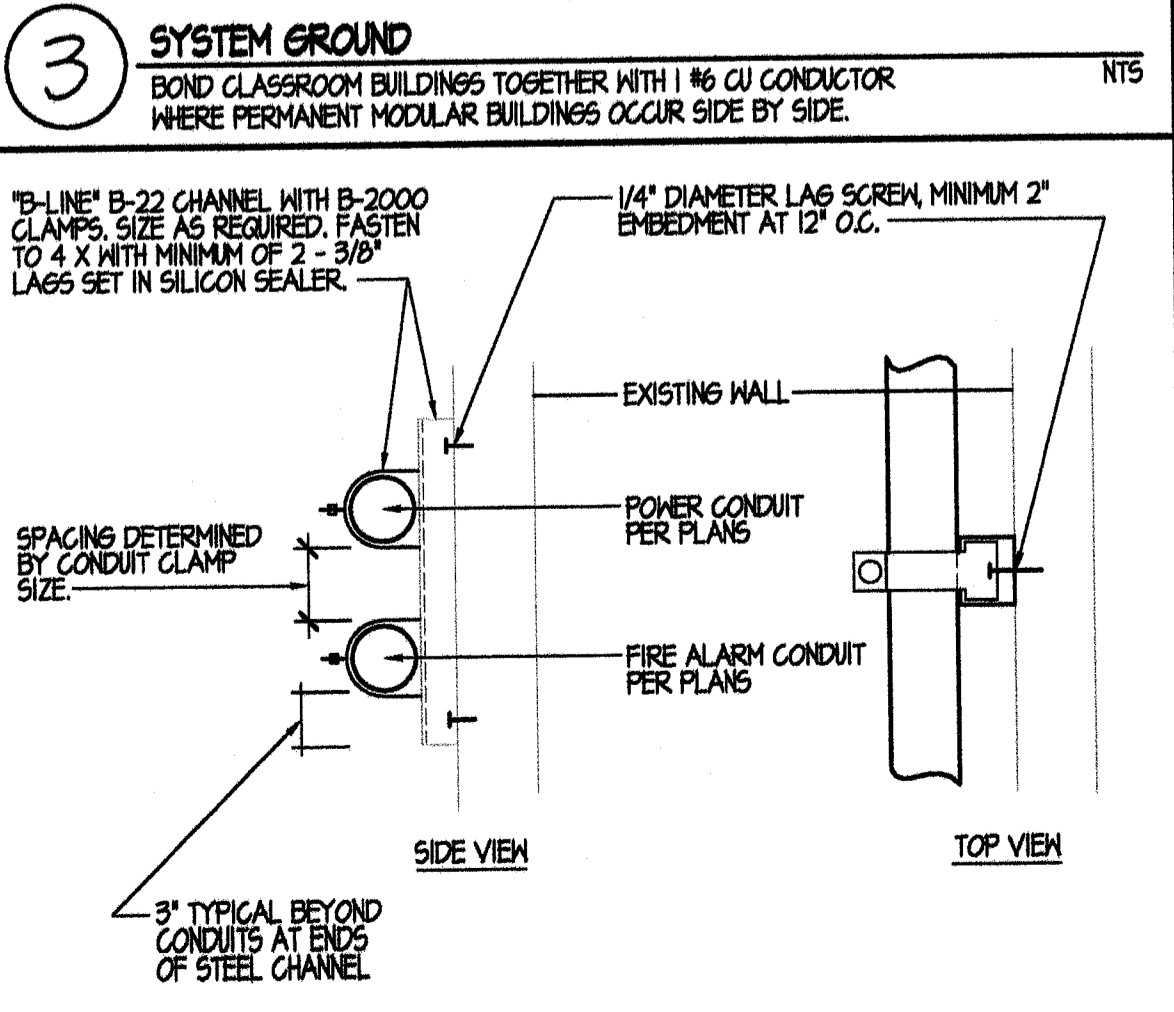
2 UNDERGROUND PULLBOX



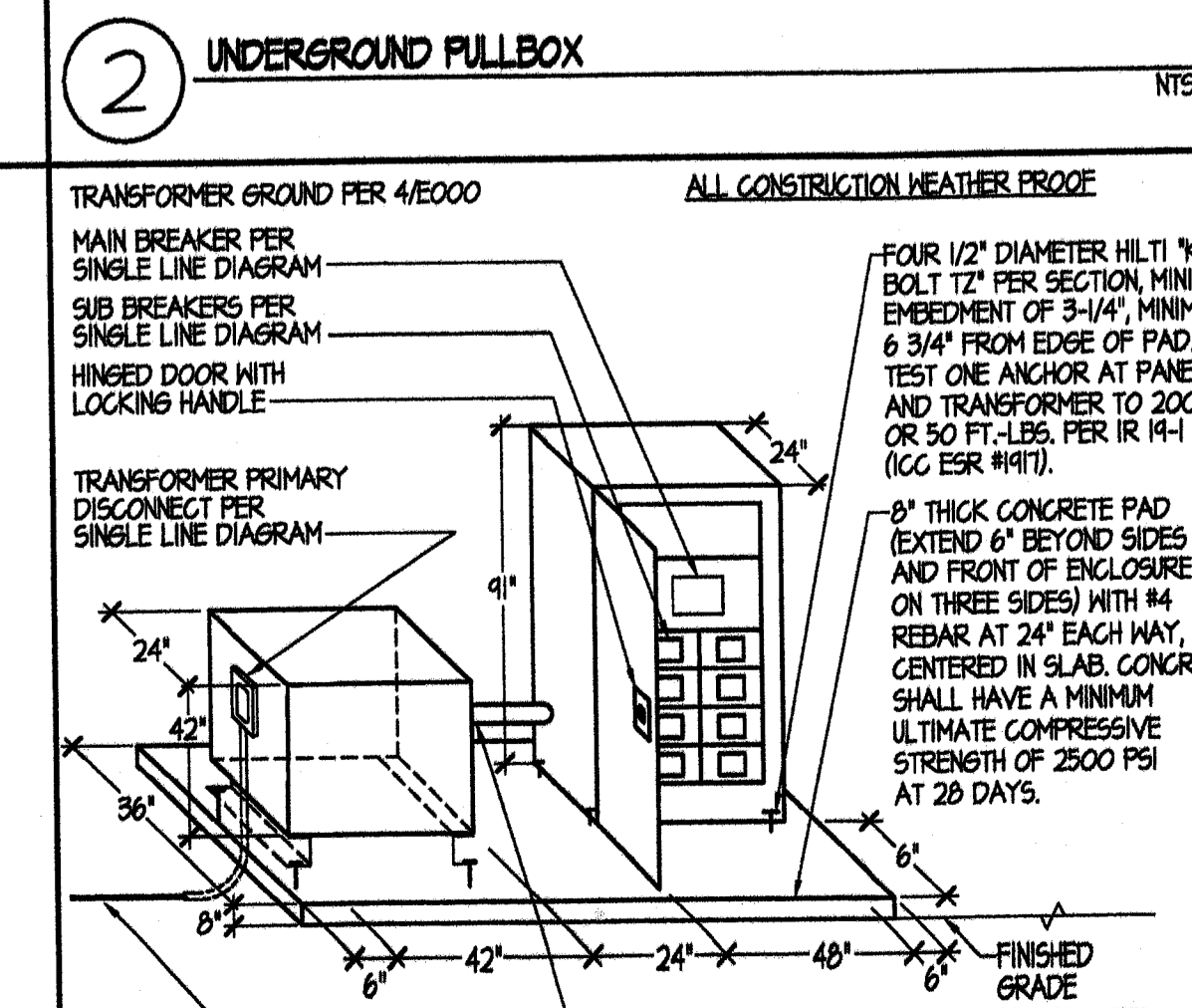
3 SYSTEM GROUND



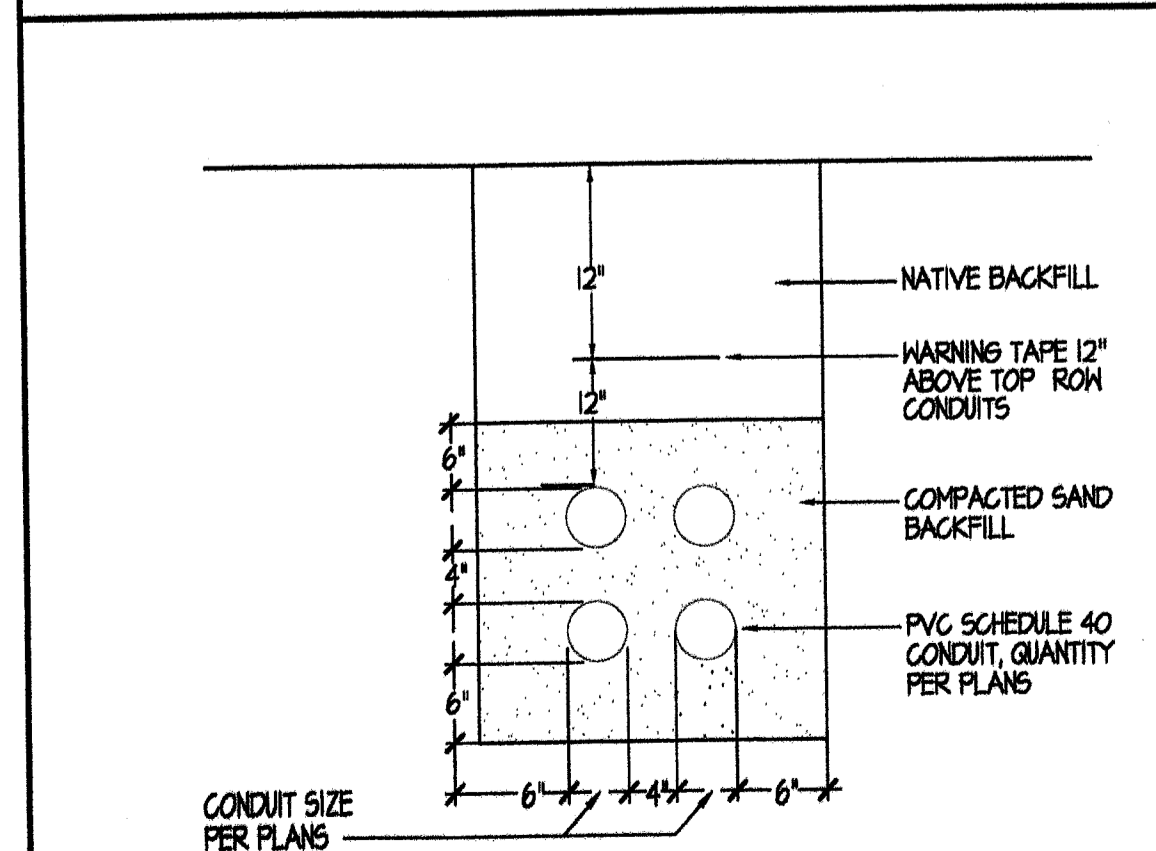
4 TRANSFORMER GROUND



7 CONDUIT SUPPORT



6 TRANSFORMER AND DISTRIBUTION PANEL DETAIL



5 DUCT BANK DETAIL 600V OR LESS

LOAD CALCULATIONS - MAINSWITCHBOARD 'MSB'

EXISTING DEMAND SUB-TOTAL	16,410	KVA
NEW LOAD BEING ADDED	11,482	KVA
FINAL RESULT LOAD	14,902	KVA
	171.1	AMPS

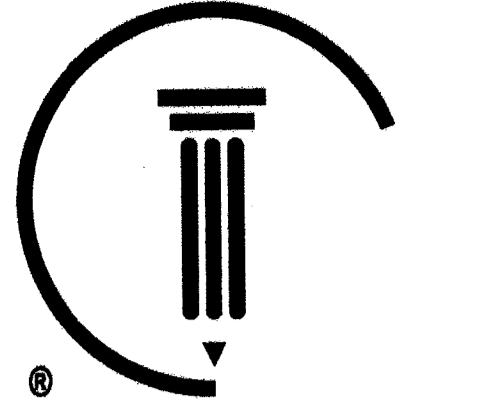
THE EXISTING DEMAND WAS CALCULATED USING THE PREVIOUS 12 MONTH HIGH BILLING DEMAND AND 0.85 ASSUMED POWER FACTOR. RESULTANT LOAD WAS THEN TAKEN AT 125% PER N.E.C. ARTICLE 220.35 REQUIREMENTS. THE FINAL RESULTANT LOAD DOES NOT EXCEED RATED FEEDER CAPACITY OR SERVICE CAPACITY. THEREFORE, THE EXISTING 600A SERVICE IS ADEQUATE AND HAS CAPACITY FOR THE REVISED/ADDITIONAL LOAD.

SINGLE LINE DIAGRAM NOTES

- (1) EXISTING MAIN SWITCHBOARD TO REMAIN. SWITCHBOARD IS 480Y/277V, 3PH 4W, 600A WITH SUFFICIENT CAPACITY FOR THE REVISED/ADDITIONAL LOAD REQUIRED BY THE SCOPE OF THIS WORK. REFER TO LOAD CALCULATIONS, THIS SHEET AND SITE POWER PLAN, SHEET E101 FOR WORK REQUIRED AND COORDINATION/REFERENCE.
- (2) EXISTING UTILITY COMPANY SERVICE LATERAL AND SWITCHBOARD MAIN CIRCUIT BREAKER TO REMAIN, NO WORK REQUIRED.
- (3) REPRESENTATIVE SUB-FEED CIRCUIT BREAKER SPACE SHOWN FOR CLARITY ONLY, ARE EXISTING TO REMAIN, NO WORK REQUIRED. DISTRIBUTION SECTION HAS CAPACITY AND SPACE FOR ADDITIONAL CIRCUIT BREAKER REQUIRED BY THIS SCOPE OF WORK.
- (4) PROVIDE NEW CIRCUIT BREAKER PER SPECIFICATIONS MATCH EXISTING EQUIPMENT MANUFACTURER AND I.C. RATINGS CONTRACTOR SHALL VERIFY ALL) AND INSTALL IN SPACE AVAILABLE IN EXISTING DISTRIBUTION SECTION.
- (5) EXISTING SUB-FEED CIRCUIT BREAKER, FEEDER CONDUIT AND WIRING TO REMAIN, NO WORK REQUIRED.
- (6) 4\"/>

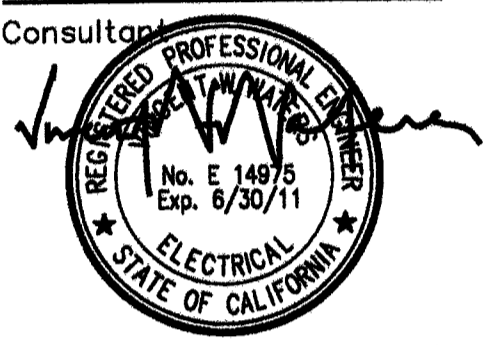
ELECTRICAL DRAWING INDEX

SHEET NUMBER	SHEET TITLE
E000	SINGLE LINE DIAGRAM, DETAILS AND CALCULATIONS
E101	PARTIAL SITE POWER PLAN
E102	PARTIAL SITE SIGNAL PLAN
E201	BUILDING ELECTRICAL PLANS
E301	BUILDING FIRE ALARM PLANS
E302	FIRE ALARM SINGLE LINE DIAGRAM
E401	MATERIAL SPECIFICATIONS
E402	MATERIAL SPECIFICATIONS



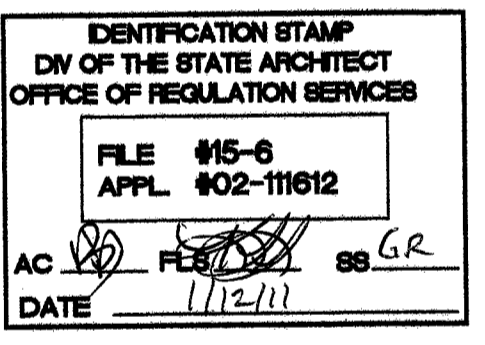
CUNNINGHAM GROUP

Cunningham Group
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661-327-7075
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661-327-1822
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Revisions

No.	Date	Description



Date: 12/18/10
Comm. No.: 10-0801
Drawn By: MWV Checked By: -
PIC/AIC: - Document Phase: CD

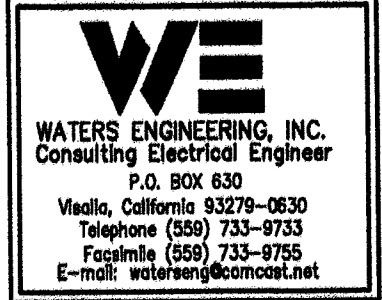
McKinley Elementary Permanent Mod. Classrooms



Sheet Title
SINGLE LINE DIAGRAM, DETAILS AND CALCULATIONS

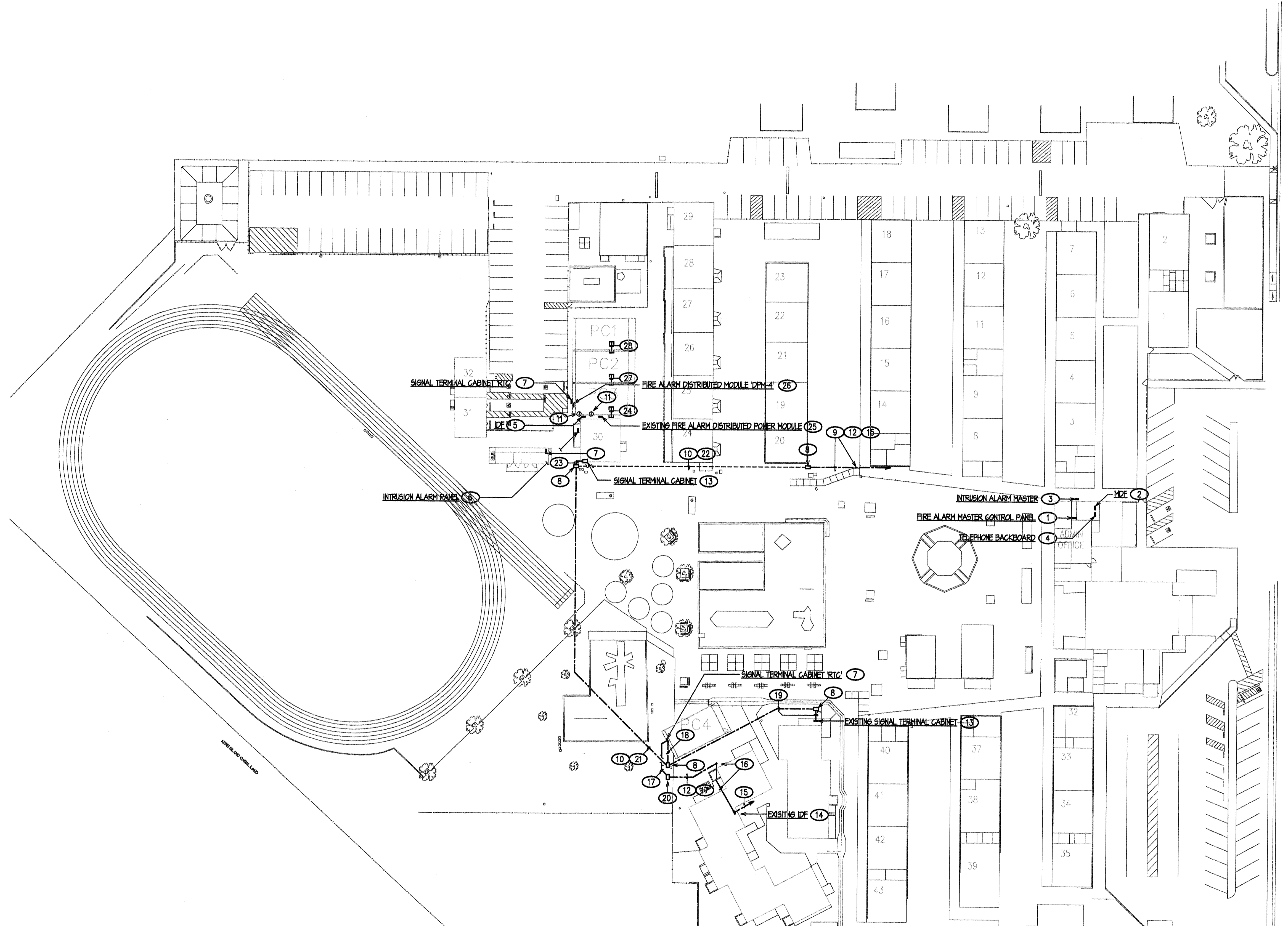
Sheet Number

E000



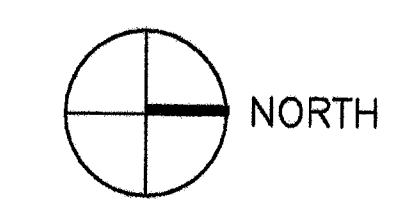
12/08/10
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PARTIAL SITE SIGNAL PLAN

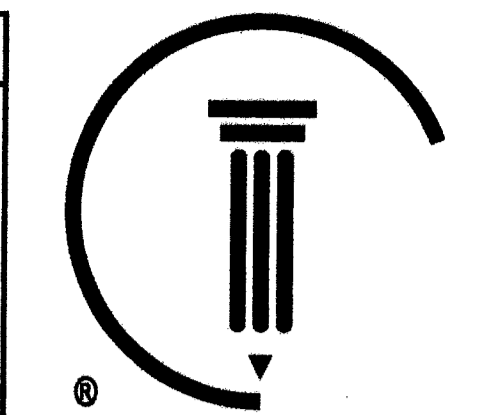


- ### PARTIAL SITE SIGNAL PLAN NOTES
- 1 EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. PANEL IS AN NF5-640 AS MANUFACTURED BY NOTIFIER, C.S.F.M. # 1165-0028-214, INSTALLED UNDER D.S.A. APPLICATION #09-106681 WITH PROTECTION MONITORING PER NFPA 72 1-5.6 REQUIREMENTS. PANEL HAS BATTERY CAPACITY FOR ADDITIONAL DEVICES REQUIRED UNDER THIS SCOPE OF WORK. PROVIDE ADDITIONAL SIGNALING/INITIATION MODULE/CARDS/PROGRAMMING AS REQUIRED TO ACCOMMODATE ADDITIONAL DEVICES. CONTRACTOR SHALL FIELD VERIFY. REFER TO FIRE ALARM SINGLE LINE DIAGRAM, SHEET E302 FOR COORDINATION/REFERENCE.
 - 2 EXISTING MAIN DISTRIBUTION FRAME RACK TO REMAIN. COORDINATE TERMINATION OF NEW FIBER OPTIC CABLE WITH DISTRICT NETWORK SYSTEMS ENGINEER, GARY TAYLOR (661) 691-4145.
 - 3 EXISTING CONTROL INTRUSION ALARM MASTER PANEL. TO REMAIN, NO WORK REQUIRED.
 - 4 EXISTING TELEPHONE BACKBOARD TO REMAIN. COORDINATE TERMINATION OF NEW 25 PAIR 'A' CABLING WITH DISTRICT NETWORK SYSTEMS ENGINEER, GARY TAYLOR (661) 691-4145.
 - 5 PROVIDE NEW HALL MOUNTED IDF PER SPECIFICATIONS AND INSTALL PER 2/E201. IDF CABINET IS TO BE MOUNTED JUST BELOW THE T-BAR CEILING WITH SUFFICIENT SPACE BETWEEN CABINET AND CEILING TO ALLOW FREE UNIMPEDED DOOR SWING. CONTRACTOR SHALL CUT CEILING TILE ABOVE IDF CABINET AT HALL AND INSTALL A 6" LENGTH OF 1/2"000 HIREHOLD TO ROUTE CABLES FROM ATTIC SPACE INTO IDF CABINET.
 - 6 EXISTING INTRUSION ALARM PANEL. TO REMAIN, NO WORK REQUIRED.
 - 7 PROVIDE NEW SIGNAL TERMINAL PER SPECIFICATIONS. INSTALL PER 1/E201. REFER TO BUILDING REAR ELEVATION, 4/E201 FOR COORDINATION/REFERENCE.
 - 8 EXISTING SIGNAL PULL BOX TO REMAIN.
 - 9 EXTEND NEW 1-1/2" C. UNDERGROUND, FROM EXISTING PULL BOX TO EXISTING BUILDING OVERHANG. CONVERT PVC TO PVC WRAPPED RIGID CONDUIT AT 18" BELOW FINISH GRADE, THEN RISE CONDUIT FROM UNDERGROUND ON SUPPORT BEAM OF BUILDING OVERHANG AND CONVERT FROM PVC WRAPPED RIGID CONDUIT TO N.P. ENT AT 48" A.F.S., THEN CONTINUE TO ROOF OF EXISTING OVERHANG, ATTACHING CONDUIT TO BUILDING STRUCTURE PER C.E.C. ARTICLE 350 REQUIREMENTS. CONTINUE TO SYSTEMS MASTER PANELS. PROVIDE ALL FITTINGS, CONDULETS, ETC. AS REQUIRED TO CONNECT TO SYSTEMS MASTER PANELS. SEAL ALL BUILDING PENETRATIONS WATER TIGHT. CONTRACTOR SHALL FIELD VERIFY ALL.
 - 10 EXISTING CONDUIT TO REMAIN.
 - 11 EXISTING HALL MOUNTED PULL BOXES TO REMAIN. REFER TO ITEM 28, BELOW FOR COORDINATION/REFERENCE.
 - 12 SAW CUT EXISTING AC PAVING/ASPHALT/CONCRETE SURFACES AS REQUIRED, BACK FILL TRENCH AND INFILL AREA WITH LIKE MATERIAL SUCH THAT NEW FINISH SURFACE MATERIAL IS FLUSH WITH EXISTING ADJACENT FINISH SURFACE MATERIAL UPON COMPLETE CURING/DRYING OF MATERIAL. CONTRACTOR SHALL EXERCISE CAUTION IN NEW TRENCHING SO AS TO NOT DISTURB OR DISRUPT EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL FIELD VERIFY ALL.
 - 13 EXISTING SIGNAL TERMINAL CABINET TO REMAIN. PROVIDE TELEVISION SYSTEM SPLITTER IN TERMINAL CABINET, PICK UP EXISTING TELEVISION CABLING AT THIS LOCATION AND EXTEND NEW 'T' CABLING TO NEW PERMANENT MODULAR BUILDINGS PER PLANS. CONTRACTOR SHALL FIELD VERIFY ALL.
 - 14 EXISTING IDF TO REMAIN. CONTRACTOR SHALL ADD NEW FIBER OPTIC PATCH PANEL PER SPECIFICATIONS AND INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - 15 1-1/2" C. ONE 1" C. CABLE (DATA) FROM CAMRUS MDF VIA EXISTING CONDUIT. TERMINATE NEW CABLE IN FIBER OPTIC PATCH PANEL BEING INSTALLED IN EXISTING IDF. CONTRACTOR SHALL FIELD VERIFY CONDUIT ROUTING TO MDF LOCATION. WHERE CONDUIT DOES NOT EXIST, CONTRACTOR SHALL PROVIDE NEW CONDUIT, SURFACE MOUNTED OR UNDERGROUND PER ITEM 12 ABOVE, AS REQUIRED.
 - 16 2" C. EIGHT 1" C. CABLES (DATA). CONTRACTOR SHALL PICK UP AND SPLICE EXISTING TWO WEST PENN 36# CABLES IN ACCESSIBLE ATTIC SPACE AND THEN RUN TO EXISTING JUNCTION BOX INSTALLED ON SIDE OF EXISTING BUILDING. EXIT BUILDING, PROVIDING NEW 3/4" C. FOR SPEAKER CABLE AND NEW 2" C. FOR DATA CABLES AS REQUIRED, ATTACHING CONDUIT TO BUILDING STRUCTURE PER C.E.C. ARTICLE 350 REQUIREMENTS USING EXISTING 1" CHANNEL MOUNTING TO BUILDING EXTERIOR WALL. CONTINUE DOWN SIDE OF EXISTING BUILDING. CONVERT FROM N.P. ENT TO PVC WRAPPED RIGID CONDUIT AT 48" A.F.S. CONVERT FROM PVC WRAPPED RIGID CONDUIT TO PVC AT 18" BELOW FINISH GRADE. CONTINUE WITH NEW CONDUIT TO NEW UNDERGROUND PULL BOX AS SHOWN.
 - 17 2" C. EIGHT 1" C. CABLES (DATA), 3/4" C. ONE 'A' CABLE (SPEAKER).
 - 18 3/4" C. ONE 1" C. CABLE (NOTIFICATION) + ONE 1" C. CABLE (INITIATION). 2" C. EIGHT 1" C. CABLES (DATA) AND 3/4" C. ONE 'A' CABLE (SPEAKER).
 - 19 EXISTING 1" C. AND 1-1/2" C. TO REMAIN, NO WORK REQUIRED.
 - 20 PROVIDE NEW UNDERGROUND PULL BOX PER SPECIFICATIONS AND INSTALL PER 2/E000.
 - 21 IN EXISTING 1" C. PULL-IN ONE 1" C. CABLE (NOTIFICATION) AND ONE 1" C. CABLE (INITIATION).
 - 22 IN EXISTING 1-1/2" C. PULL-IN ONE 1" C. CABLE (DATA).
 - 23 1-1/2" C. ONE 1" C. CABLE (DATA) AND CONNECT TO BUILDING IDF. PICK UP EXISTING 25 PAIR COMMUNICATIONS CABLE SPLICE AND PULL ONE 'A' CABLE THROUGH ACCESSIBLE ATTIC SPACE TO EXISTING HALL MOUNTED PULL BOXES ON WEST SIDE OF BUILDING. REFER TO ITEM 11, ABOVE FOR COORDINATION/REFERENCE.
 - 24 2" C. THIRTY-FOUR 1" C. CABLES (DATA) FROM NEW IDF; 1-1/2" C. ONE 'A' CABLE (TELEPHONE) FROM EXISTING BUILDING MOUNTED SIGNAL T.C.; 1-1/2" C. ONE 1" C. CABLE (NOTIFICATION) FROM EXISTING DISTRIBUTED POWER MODULE + ONE 1" C. CABLE (INITIATION) FROM EXISTING BUILDING MOUNTED SIGNAL T.C. ROUTE EIGHT DATA CABLES PER 4/E201 IN PERMANENT MODULAR BUILDING PH#1 AND EXTEND REMAINING SIXTEEN DATA CABLES TO DATA CONDUIT SLEEVE BETWEEN PERMANENT MODULAR BUILDINGS PH#1 AND PH#2. ROUTE 'A' CABLE TO NEW BUILDING MOUNTED SIGNAL T.C. ITEM 1 ABOVE AND TERMINATE. ROUTE FIRE ALARM CABLING TO NEW BUILDING MOUNTED FIRE ALARM 'R'FATC' AND TERMINATE. REFER TO BUILDING EXTERIOR ELEVATION 4/E201 FOR COORDINATION/REFERENCE.
 - 25 EXISTING FIRE ALARM POWER MODULE TO REMAIN. DPM IS AN ACP5-2406 AS MANUFACTURED BY NOTIFIER, C.S.F.M. # 1165-0028-215, INSTALLED UNDER D.S.A. APPLICATION #09-106681 WITH PROTECTION MONITORING PER NFPA 72 1-5.6 REQUIREMENTS. MODULE HAS BATTERY CAPACITY FOR ADDITIONAL DEVICES REQUIRED UNDER THIS SCOPE OF WORK. REFER TO FIRE ALARM SINGLE LINE DIAGRAM, SHEET E302 FOR COORDINATION/REFERENCE.
 - 26 PROVIDE NEW FIRE ALARM DISTRIBUTED POWER MODULE PER SPECIFICATIONS, INSTALL PER 4/E302 AND CONNECT PER FIRE ALARM SINGLE LINE DIAGRAM, 1/E302.
 - 27 PROVIDE TWO 2" C. SLEEVES (DATA); ONE 2" C. SLEEVE (COMMUNICATIONS); ONE 1-1/2" C. SLEEVE (FIRE ALARM) BETWEEN PERMANENT MODULAR BUILDINGS. PULL SIXTEEN 1" C. CABLES IN ONE 2" C. SLEEVE (DATA), LEAVE ONE 2" C. SLEEVE (DATA) FOR FUTURE. PULL TWO 'A' CABLES (SPEAKER) IN 2" C. (COMMUNICATIONS). PULL TWO 1" C. CABLES (NOTIFICATION) + ONE 1" C. CABLE (FIRE ALARM INITIATION) IN 1-1/2" C. (FIRE ALARM). REFER TO PERMANENT MODULAR BUILDING ELECTRICAL PLANS, 4/E201 AND PERMANENT MODULAR BUILDING FIRE ALARM PLANS, 2/E301 FOR SIGNAL DISTRIBUTION REQUIREMENTS INSIDE BUILDING.
 - 28 PROVIDE TWO 2" C. SLEEVES (DATA); ONE 2" C. SLEEVE (COMMUNICATIONS); ONE 1-1/2" C. SLEEVE (FIRE ALARM) BETWEEN PERMANENT MODULAR BUILDINGS. PULL EIGHT 1" C. CABLES IN ONE 2" C. SLEEVE (DATA), LEAVE ONE 2" C. SLEEVE (DATA) FOR FUTURE. PULL TWO 'A' CABLES (SPEAKER) IN 2" C. (COMMUNICATIONS). PULL TWO 1" C. CABLES (NOTIFICATION) + ONE 1" C. CABLE (FIRE ALARM INITIATION) IN 1-1/2" C. (FIRE ALARM). REFER TO PERMANENT MODULAR BUILDING ELECTRICAL PLANS, 4/E201 AND PERMANENT BUILDING FIRE ALARM PLANS, 2/E301 FOR SIGNAL DISTRIBUTION REQUIREMENTS INSIDE BUILDING.

SCALE: 1" = 40'-0"

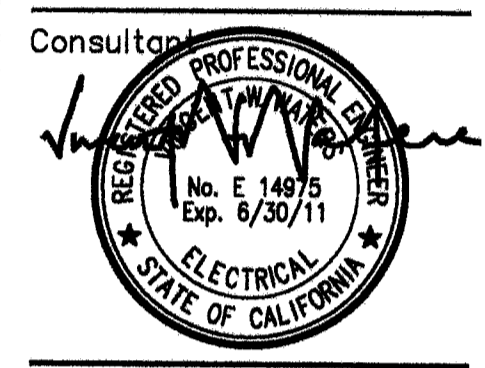


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Revisions

No.	Date	Description

IDENTIFICATION STAMP
 DIV OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES

FILE #15-6
 APPL. #02-11612

AC 10 FILED 08 GR
 DATE 11/15/10

Date: 12/15/10
 Comm. No.: 10-0801
 Drawn By: MMV Checked By: -
 PIC/AIC: - Document Phase: CD

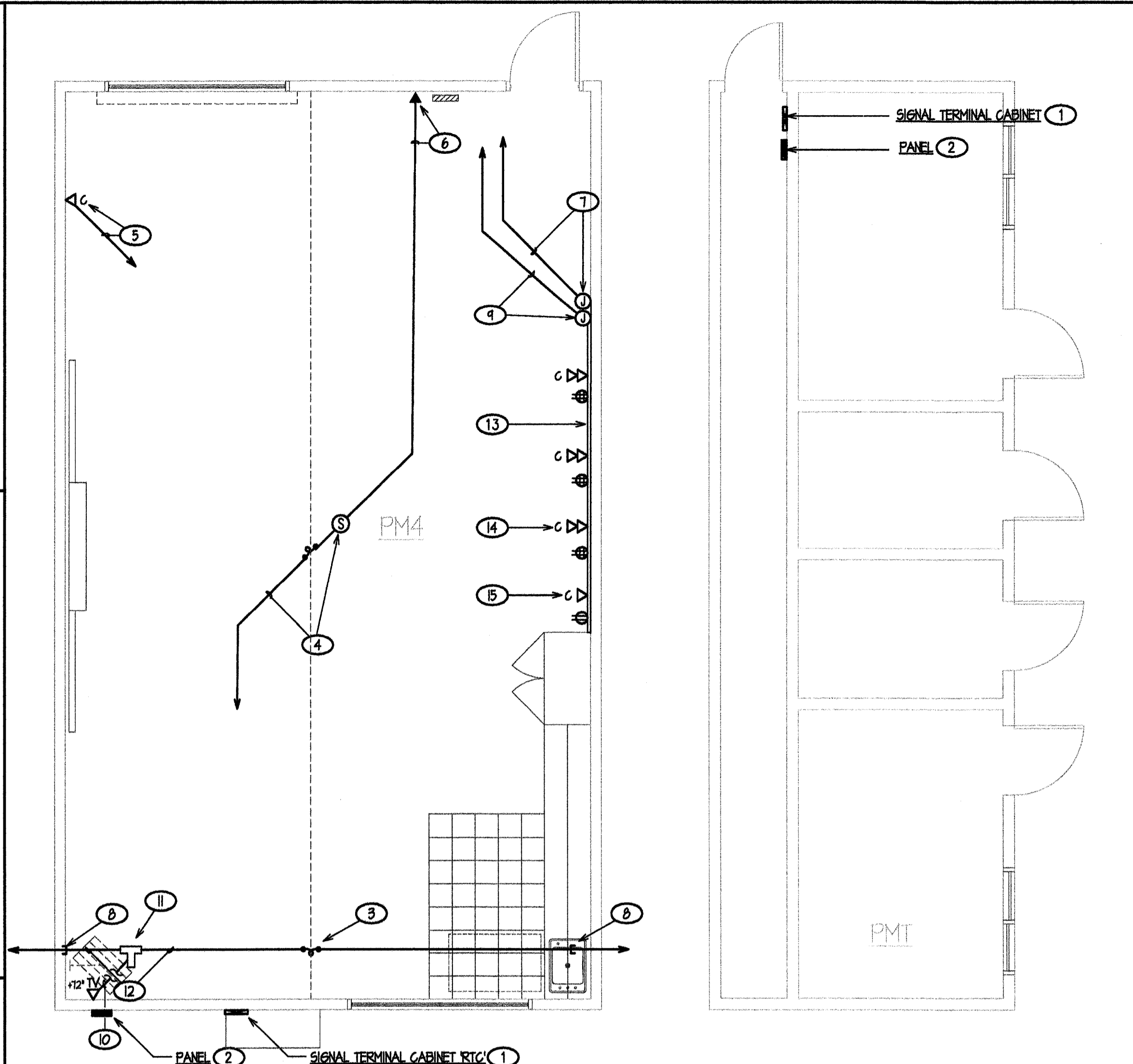
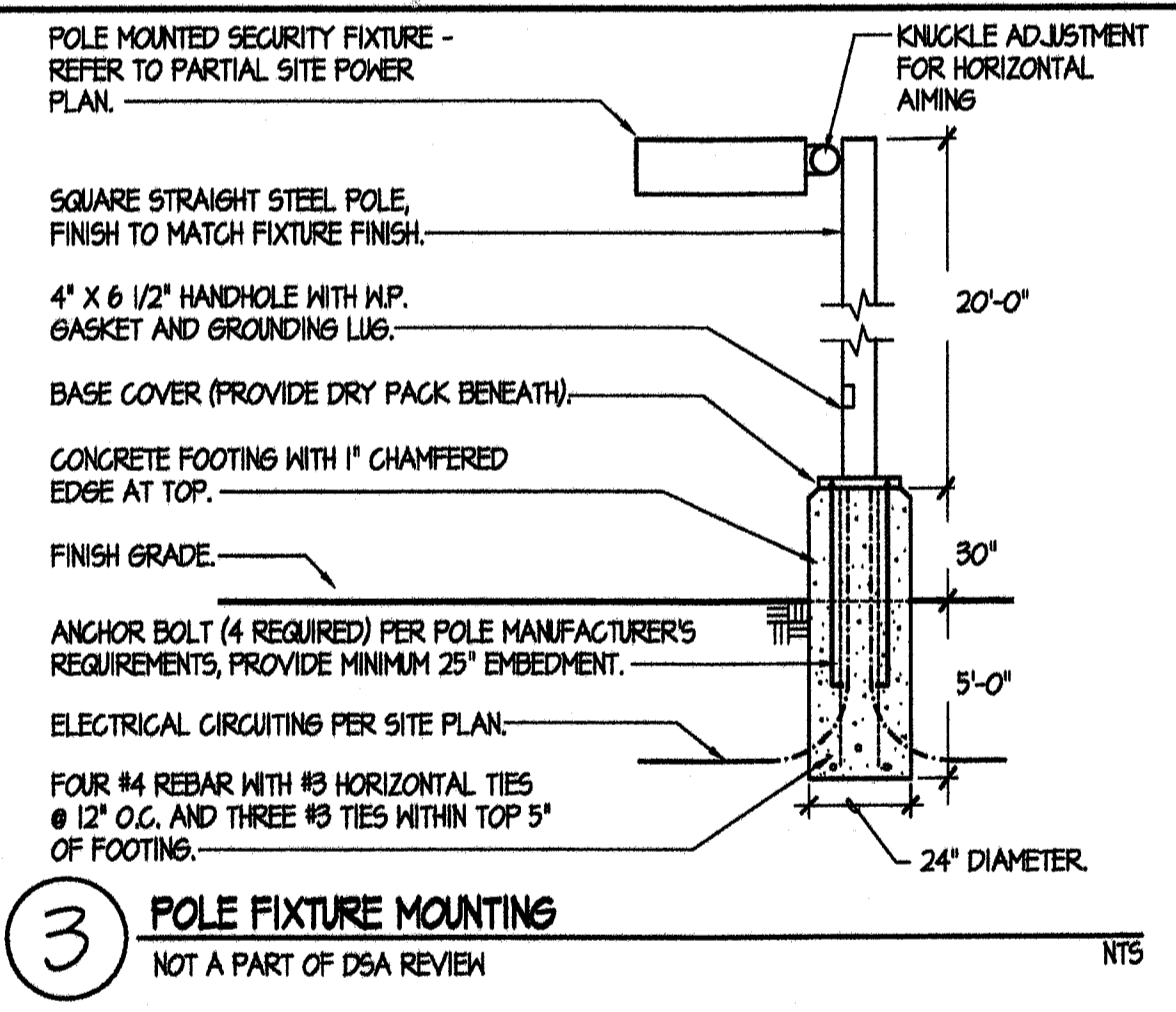
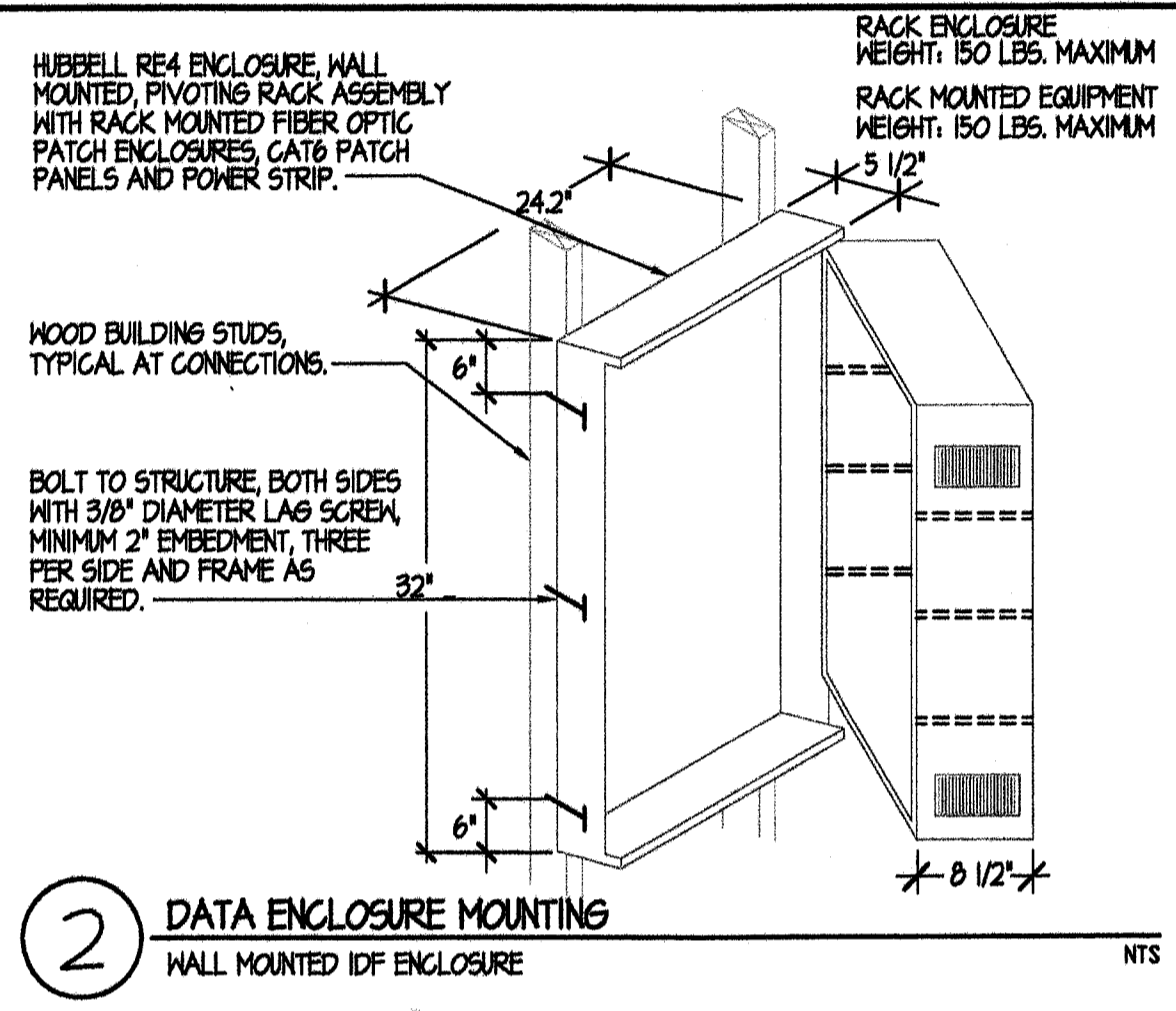
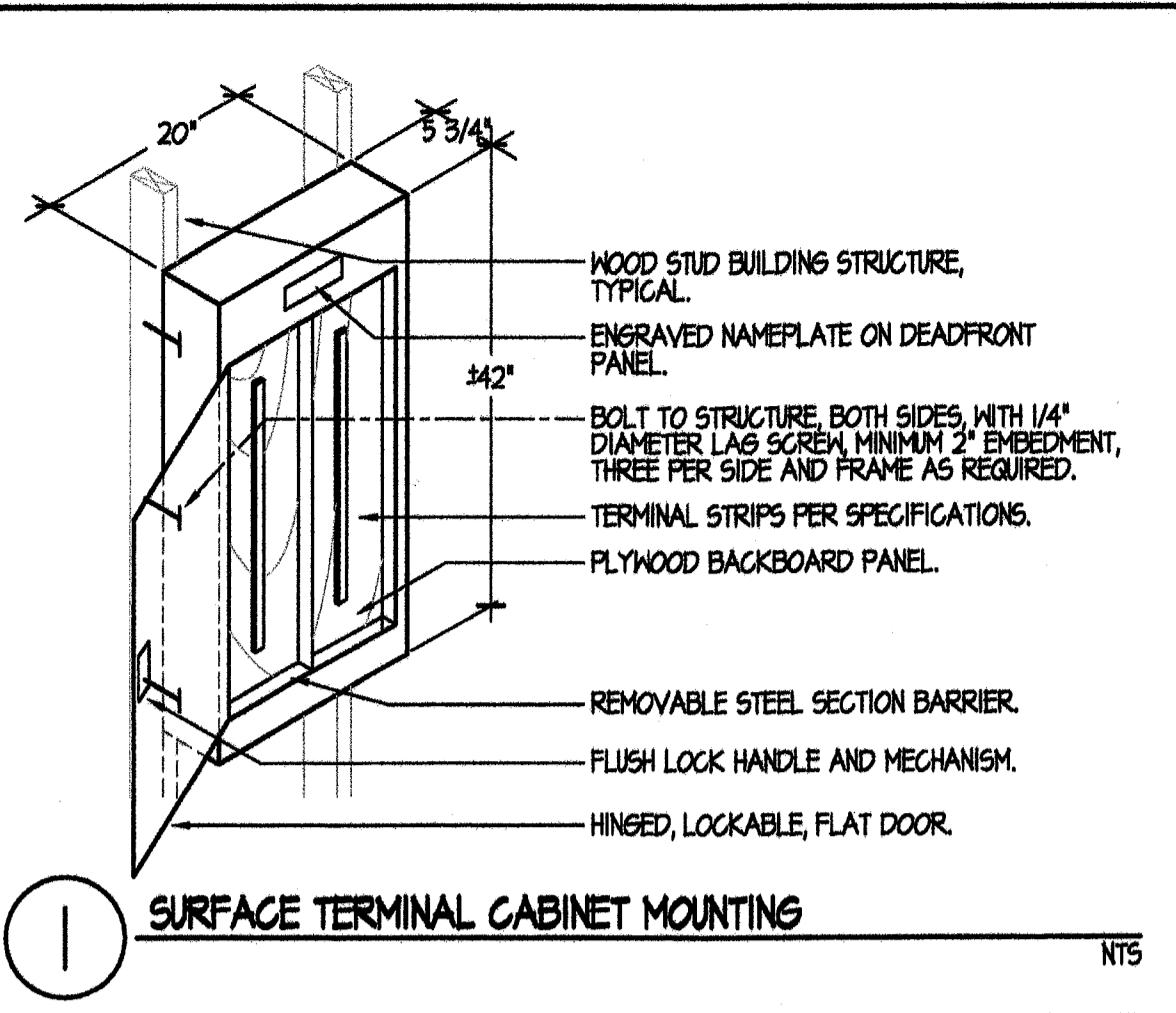
Project Title
**McKINLEY
 ELEMENTARY
 PERMANENT MOD
 CLASSROOMS**



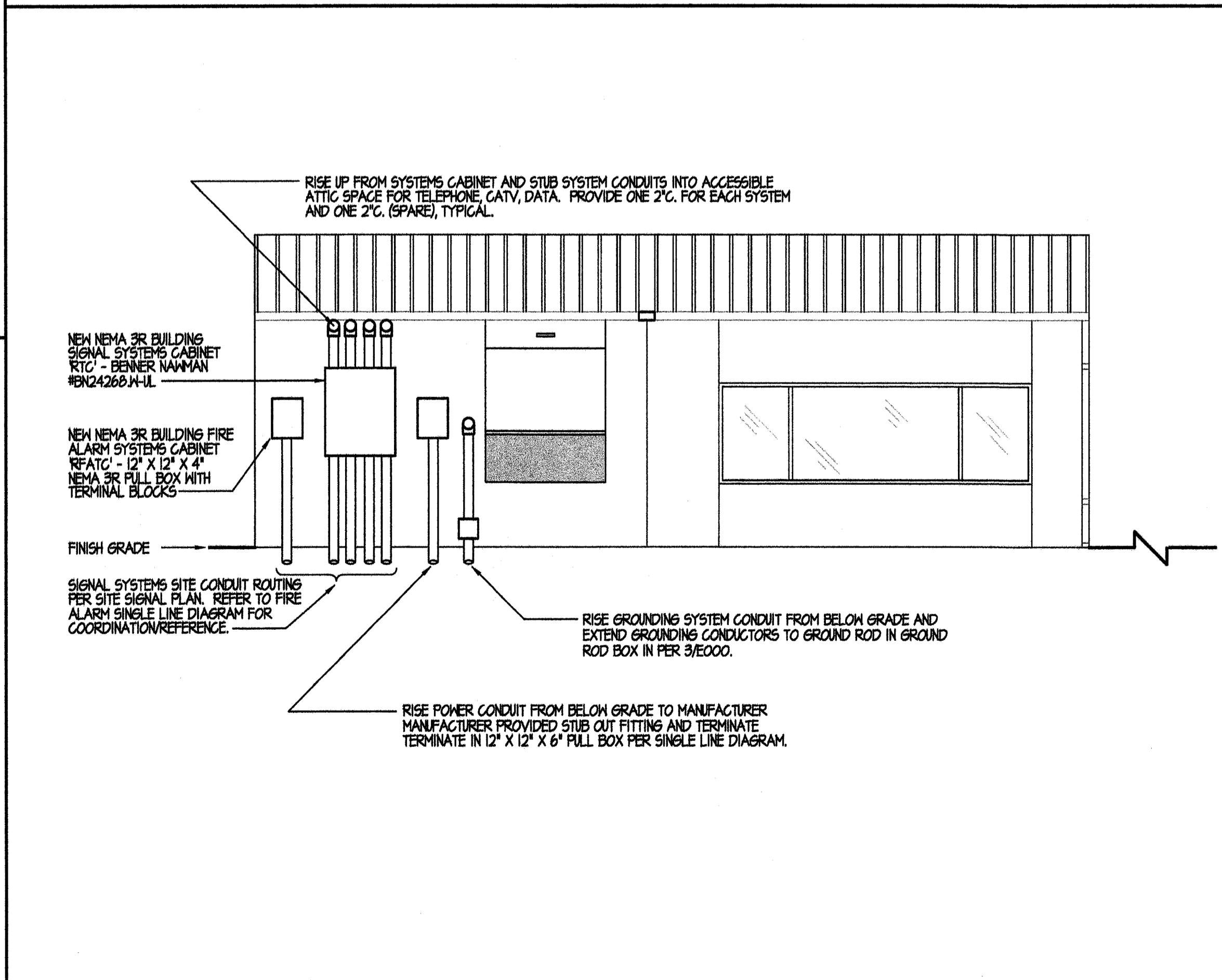
Sheet Title
**PARTIAL SITE
 SIGNAL PLAN**

Sheet Number

E102



4 PERMANENT MODULAR BUILDING ELECTRICAL PLANS
BUILDING ORIENTATION VARIES, REFER TO SITE ELECTRICAL PLANS FOR EXACT BUILDING POSITIONING. SCALE: 1/4" = 1'-0"



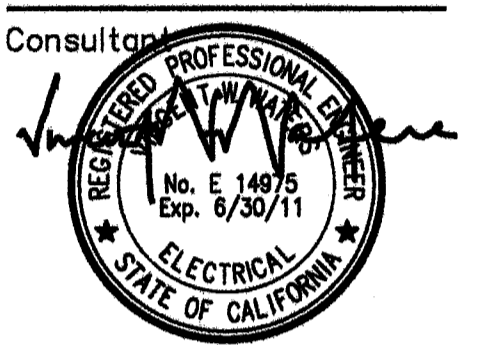
5 ELEVATION AT REAR OF PERMANENT MODULAR BUILDINGS
REFER TO SITE SIGNAL PLAN FOR EXACT LOCATIONS FOR RTC' AND RFATC' ON REAR OF BUILDING, WHERE OCCURS.

PERMANENT MODULAR BUILDING ELECTRICAL PLANS NOTES

- 1 PROVIDE NEW SIGNAL TERMINAL CABINET PER SPECIFICATIONS AND INSTALL PER VE201. EXTEND CONDUCTORS AS REQUIRED TO BUILDING ELECTRICAL SYSTEMS.
- 2 POWER PANEL IS TO BE PRE-INSTALLED ON PERMANENT MODULAR BUILDING (INSTALLATION BY OTHERS). REFER TO SINGLE LINE DIAGRAM, VE000 FOR COORDINATION/REFERENCE.
- 3 PROVIDE FLEXIBLE CONDUIT CONNECTION AT MODULE LINE BETWEEN BUILDING MODULES, TYPICAL.
- 4 PROVIDE CEILING MOUNTED SPEAKER ASSEMBLY PER SPECIFICATIONS (SPEAKER ASSEMBLY SHALL NOT EXCEED 20 LBS. TOTAL WEIGHT). PROVIDE SPEAKER CABLE PER SPECIFICATIONS. AT SPEAKER LOCATION, TERMINATE AT SPEAKER LEAVING SUFFICIENT EXCESS CABLE THREE SERVICE LOOPS MINIMUM AND RUN CABLE IN ACCESSIBLE ATTIC SPACE VIA J-HOOKS AT 8' O.C. FROM SPEAKER TO BUILDING SIGNAL TERMINAL CABINET VIA BUILDING COMMUNICATIONS CONDUIT SLEEVE WHERE OCCURS AND TERMINATE ON TERMINATION BLOCK.
- 5 PROVIDE SINGLE RJ45 JACK AND COVER PLATE PER SPECIFICATIONS AND INSTALL TO EXISTING BACK BOX AT THIS LOCATION. USE EXISTING CONDUIT TO ACCESSIBLE ATTIC SPACE AND RUN ONE 1' CABLE TO IDF CABINET VIA BUILDING DATA CONDUIT SLEEVE WHERE OCCURS AND TERMINATE AT SPARE POSITION IN COPPER PATCH PANEL. PROVIDE INSULATED BUSHING AT CONDUIT IN ATTIC SPACE FOR CABLE PROTECTION. CONTRACTOR SHALL FIELD VERIFY ALL.
- 6 PROVIDE SINGLE LINE TELEPHONE PER SPECIFICATIONS, SURFACE MOUNTED TO EXISTING BACK BOX AT THIS LOCATION. EXTEND ONE 'A' CABLE FROM CEILING MOUNTED SPEAKER VIA J-HOOKS AT 8' O.C. IN FREE AIR TO EXTERIOR WALL, THEN USE EXISTING CONCEALED CONDUIT TO EXISTING BACK BOX AND TERMINATE ONE PAIR AT TELEPHONE. FROM TELEPHONE, RUN ONE 1' CABLE VIA BUILDING DATA CONDUIT SLEEVE WHERE OCCURS TO IDF RACK AND TERMINATE AS SPARE FOR FUTURE. PROVIDE INSULATED BUSHING AT CONDUIT IN ATTIC SPACE FOR CABLE PROTECTION. CONTRACTOR SHALL FIELD VERIFY ALL.
- 7 PROVIDE 1\"/>

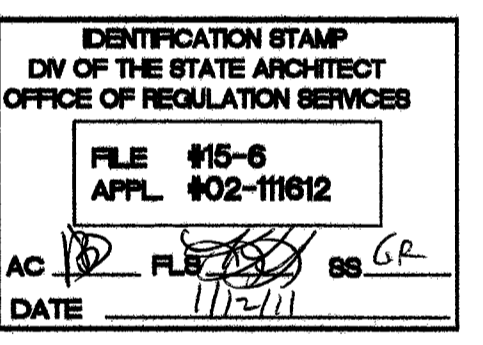


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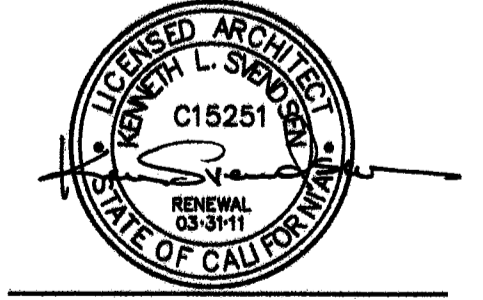
Revisions

No.	Date	Description



Date: 12/16/10
Comm. No.: 10-0801
Drawn By: MWW Checked By: -
PIC/AC: - Document Phase: CD
Project Title

**McKINLEY
ELEMENTARY
PERMANENT MOD
CLASSROOMS**



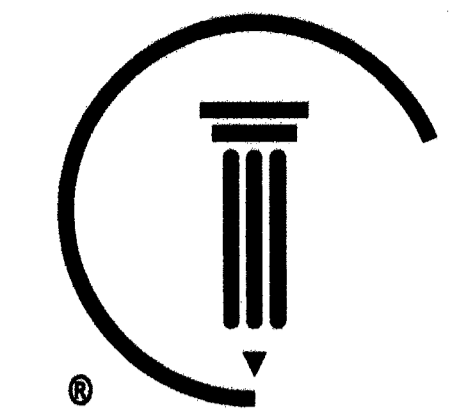
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**BUILDING
ELECTRICAL
PLANS**

Sheet Number

E201

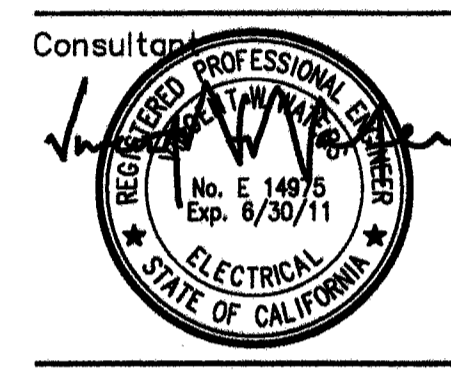


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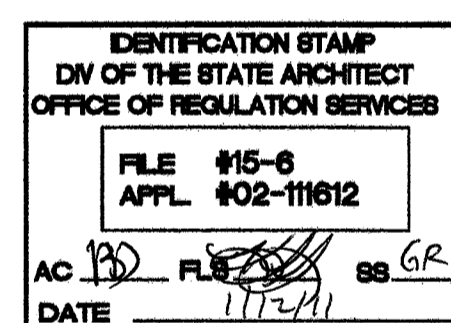
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Revisions

Table with 3 columns: No., Date, Description



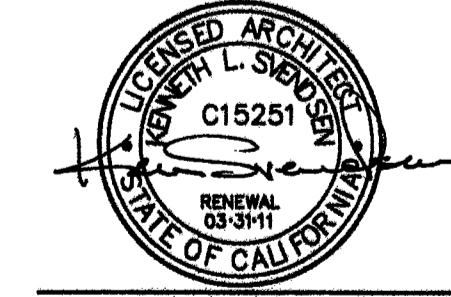
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Comm. No.: 10-0801

Drawn By: MWV Checked By: -

Project Title

McKINLEY ELEMENTARY PERMANENT MOD CLASSROOMS



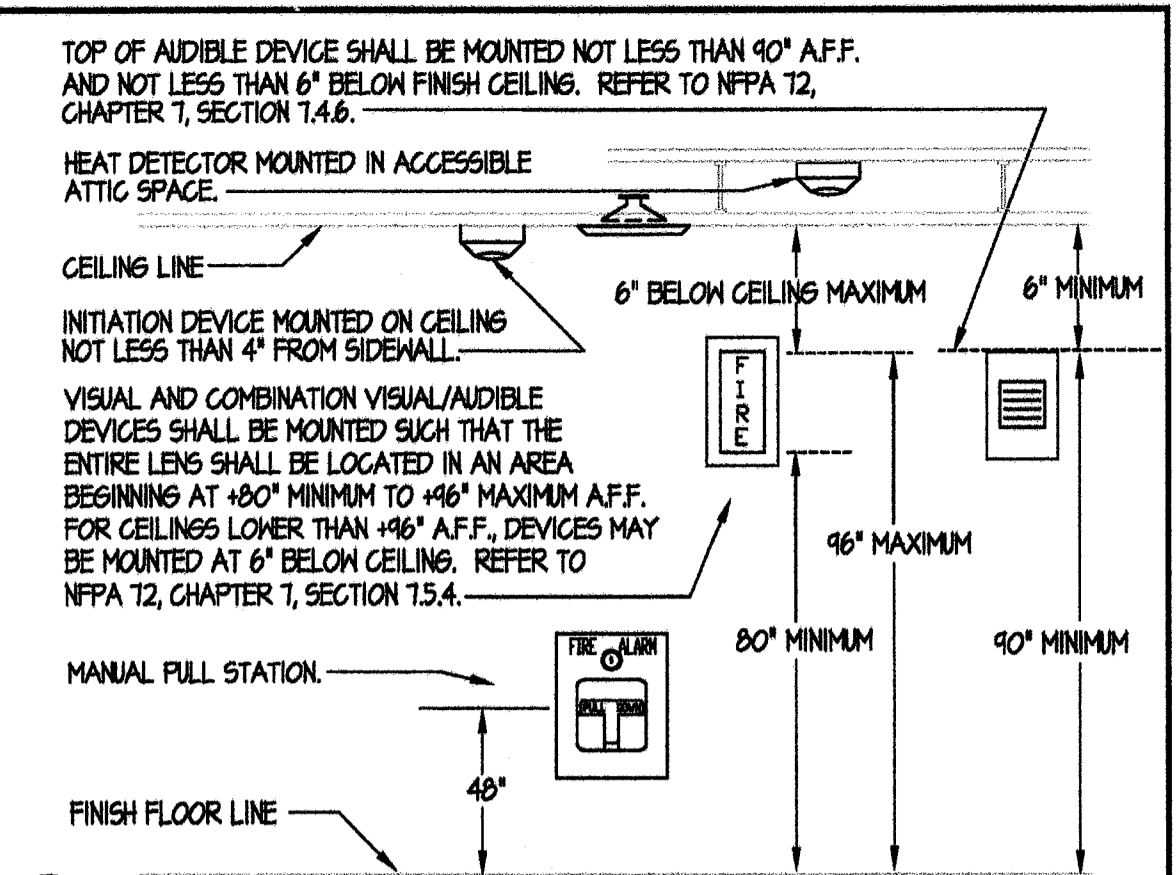
Sheet Title

FIRE ALARM SINGLE LINE DIAGRAM

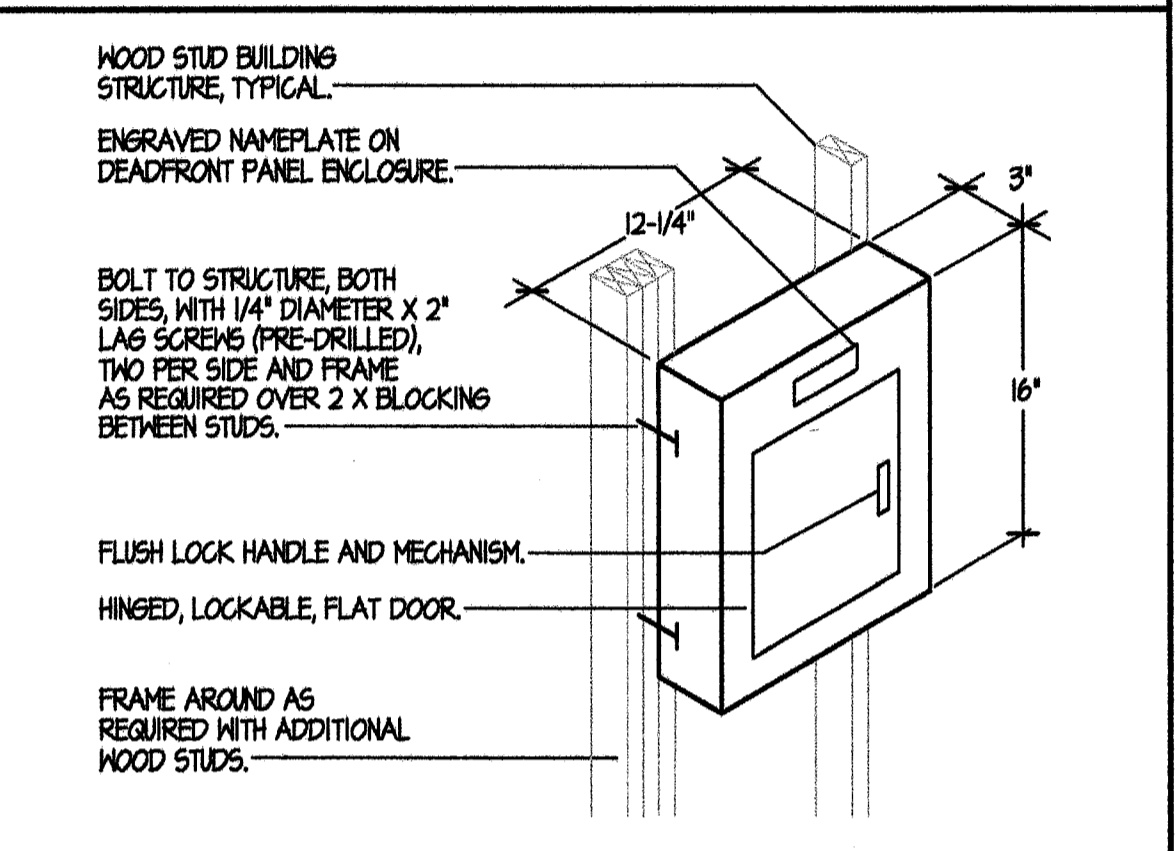
Sheet Number

E302

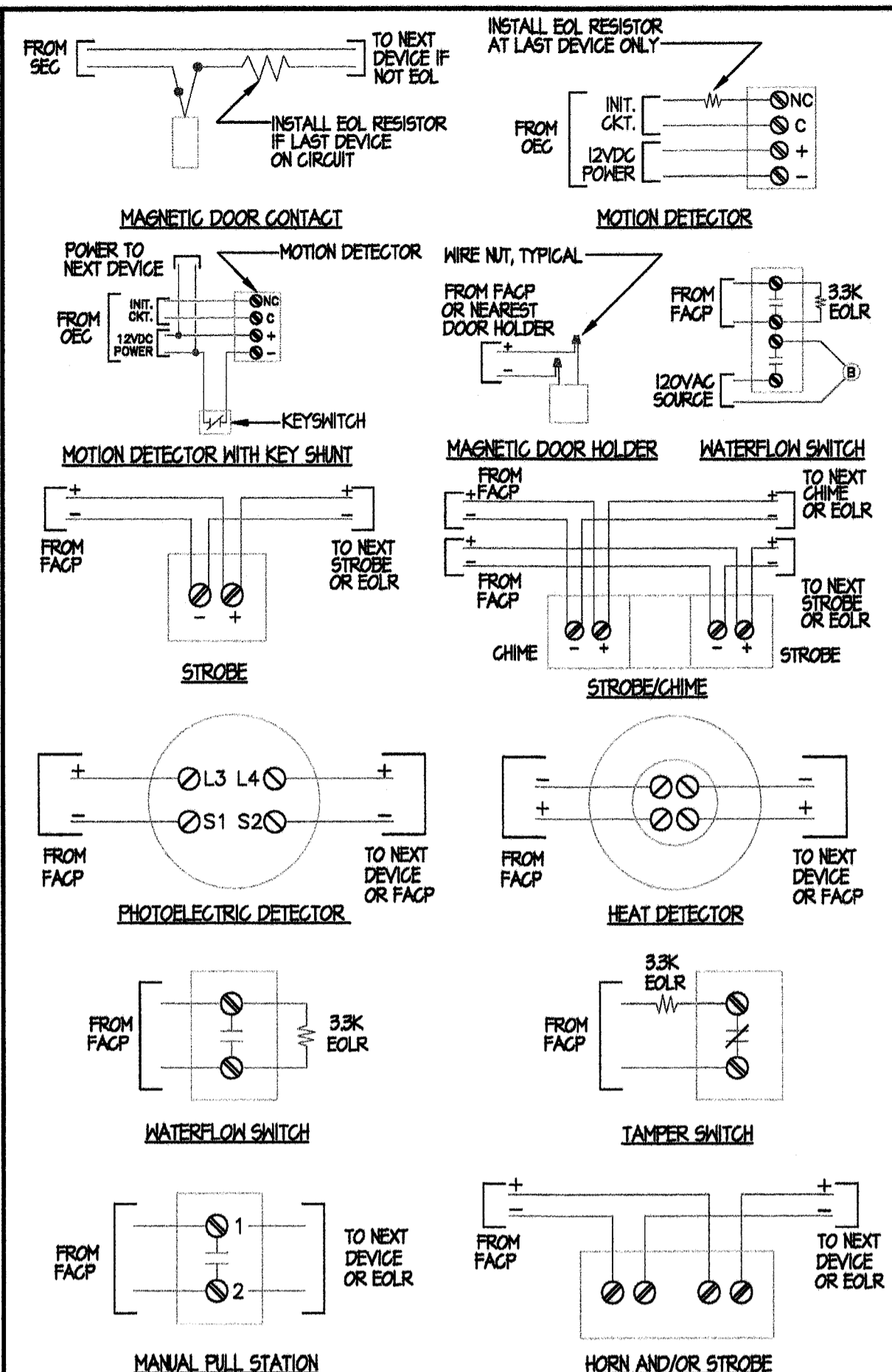
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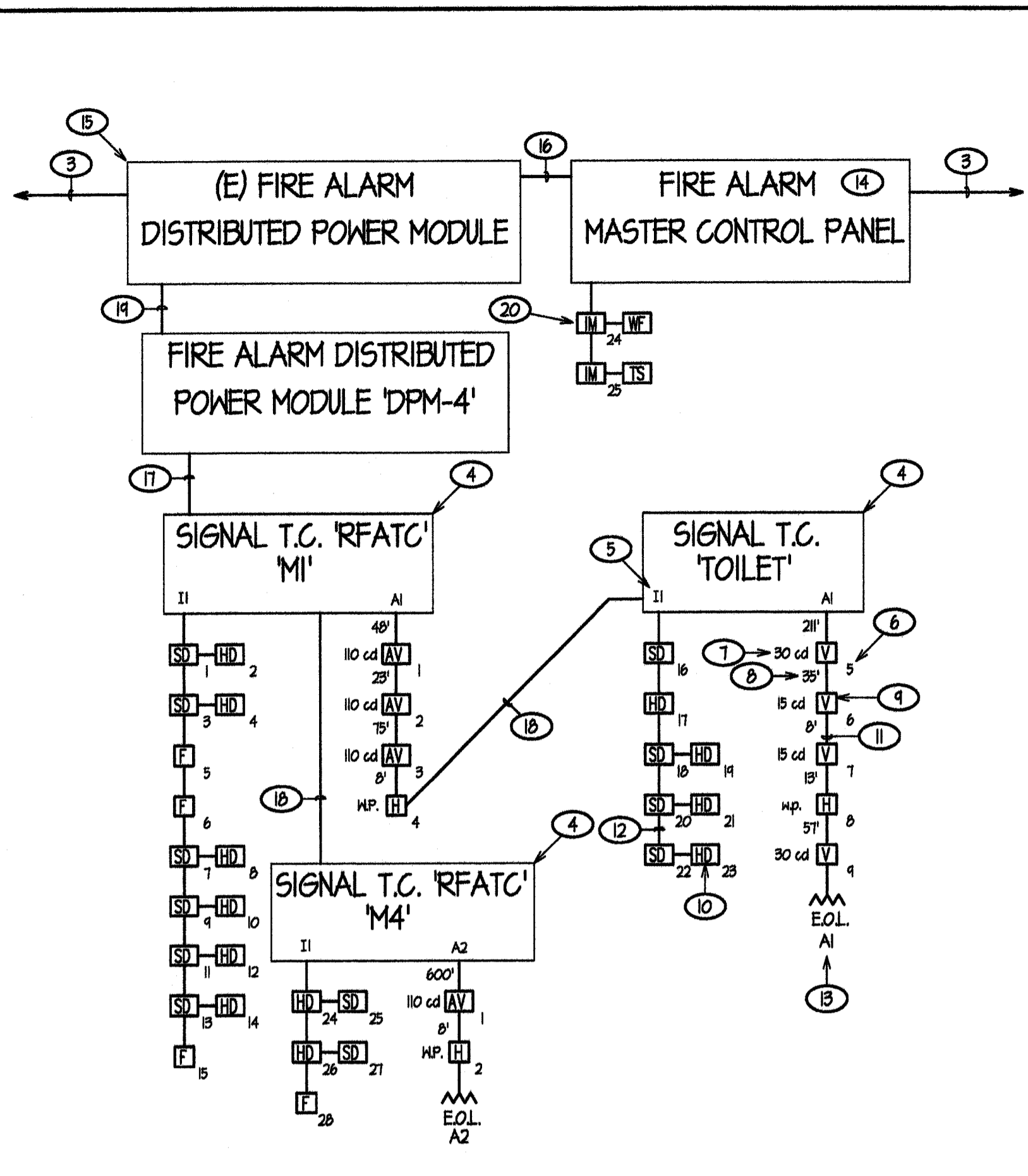
3 FIRE ALARM DEVICE ELEVATION NTS



4 SURFACE MOUNTED DISTRIBUTED POWER MODULE NTS



2 TYPICAL DEVICE WIRING DETAIL NTS



1 FIRE ALARM SINGLE LINE DIAGRAM NO SCALE

Table: FIRE ALARM VOLTAGE DROP CALCULATIONS with columns for Device Number, Amp Size, Circ. Mils, Ohms Res. Per/Ft., Wire Length, Device Amperes, Total Amperes, Device % VD, Total % VD.

ANNUNCIATION CIRCUIT 'A1' TOTAL PERCENTAGE DROP IN CIRCUIT: 2.10%

BASED UPON A 24 VDC CIRCUIT OPERATING AT 75 DEGREES FAHRENHEIT

Table: FIRE ALARM VOLTAGE DROP CALCULATIONS (continued)

ANNUNCIATION CIRCUIT 'A2' TOTAL PERCENTAGE DROP IN CIRCUIT: 1.10%

BASED UPON A 24 VDC CIRCUIT OPERATING AT 75 DEGREES FAHRENHEIT

Table: FIRE ALARM BATTERY CALCULATIONS - 'DPM-3'

Table: FIRE ALARM BATTERY CALCULATIONS - 'DPM-3' (continued)

Table: FIRE ALARM BATTERY CALCULATIONS - 'DPM-3' (continued)

TOTAL REQUIRED AMPERE-HOURS FOR: 4.689 A.H.

BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR: x 1.2

TOTAL MINIMUM AMPERE HOURS REQUIRED: 5.620 A.H.

EXISTING BATTERY CAPACITY: 1.0 A.H.

TOTAL REQUIRED AMPERE-HOURS FOR: 0.0783 A.H.

BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR: x 1.2

TOTAL MINIMUM AMPERE HOURS REQUIRED: 0.094 A.H.

PROVIDE BATTERY CAPACITY: 1.0 A.H.

FIRE ALARM SINGLE LINE DIAGRAM NOTES

- 1 SINGLE LINE DIAGRAM IS A SCHEMATIC REPRESENTATION OF FIRE ALARM DISTRIBUTION AND BRANCH CIRCUITING. REFER TO PARTIAL SITE SIGNAL PLAN, SHEET E102 FOR SPECIFIC SITE DISTRIBUTION ROUTING AND COORDINATION REFERENCE.
2 PROVIDE NEW FIRE ALARM DISTRIBUTED POWER MODULE PER SPECIFICATIONS. RUN 1/2" x 2 #12 CU THIN W/ #12 CU GROUND TO BUILDING PANEL AND CONNECT TO SPARE DEDICATED 20A CIRCUIT BREAKER LOCATED AT BUS POSITION NUMBER (X) IN PANEL (X) PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE RED COLOR CIRCUIT BREAKER HANDLE AND DISCONNECT LOCATION LABELING PER N.F.P.A. T2, CHAPTER 4, SECTIONS 4.4.1.4.2. ADDITIONALLY, CONTRACTOR SHALL PROVIDE AND INSTALL A LISTED LOCK OUT DEVICE COMPATIBLE WITH THE CIRCUIT BREAKER FOR ADDED PROTECTION.
3 EXISTING DEDICATED 120VAC, 20A CIRCUIT BREAKER FOR EXISTING FIRE ALARM CONTROL EQUIPMENT TO REMAIN, NO WORK REQUIRED.
4 BUILDING SIGNAL TERMINAL CABINET PER PLANS. PROVIDE FLAT MOUNT TERMINAL BLOCKS PER SPECIFICATIONS, QUANTITY AS REQUIRED, TO TERMINATE ALL FIRE ALARM CONDUCTORS WITHIN THE FIRE ALARM SECTION OF THE SIGNAL TERMINAL CABINET.
5 CIRCUIT DESIGNATION, TYPICAL.
6 DENOTES NOTIFICATION APPLIANCE NUMBER USED IN VOLTAGE DROP CALCULATIONS, TYPICAL. REFER TO FIRE ALARM VOLTAGE DROP CALCULATIONS, AND BATTERY CALCULATIONS, THIS SHEET FOR COORDINATION REFERENCE.
7 DENOTES FIRE ALARM VISIBLE NOTIFICATION APPLIANCE NOMINAL CANDELA RATINGS REQUIRED, TYPICAL.
8 DENOTES DISTANCE BETWEEN NOTIFICATION APPLIANCES, TYPICAL.
9 PROVIDE NOTIFICATION APPLIANCE PER SPECIFICATIONS, TYPICAL. REFER TO INDIVIDUAL BUILDING FIRE ALARM PLANS FOR EXACT DEVICE LOCATIONS, QUANTITIES AND CONDUIT ROUTING REQUIREMENTS. REFER TO FIRE ALARM SYMBOL SCHEDULE, THIS SHEET FOR COORDINATION REFERENCE.
10 PROVIDE INITIATING DEVICE PER SPECIFICATIONS, TYPICAL. REFER TO INDIVIDUAL BUILDING FIRE ALARM PLANS FOR EXACT DEVICE LOCATIONS, QUANTITIES AND CONDUIT ROUTING REQUIREMENTS. REFER TO FIRE ALARM SYMBOL SCHEDULE, THIS SHEET FOR COORDINATION REFERENCE.
11 RUN ONE 'N' CABLE BETWEEN NOTIFICATION APPLIANCES, TYPICAL, SHOWN HERE FOR CLARITY ONLY. SEE INDIVIDUAL FIRE ALARM PLANS FOR EACH RESPECTIVE BUILDING TO DETERMINE EXACT ROUTING REQUIREMENTS OF FIRE ALARM CIRCUITING AND CONDUIT.
12 RUN ONE 'I' CABLE BETWEEN INITIATING DEVICES, TYPICAL, SHOWN HERE FOR CLARITY ONLY. SEE INDIVIDUAL FIRE ALARM PLANS FOR EACH RESPECTIVE BUILDING TO DETERMINE EXACT ROUTING REQUIREMENTS OF FIRE ALARM CIRCUITING AND CONDUIT.
13 END OF LINE RESISTOR FOR INDICATED NOTIFICATION CIRCUIT, TYPICAL. PROVIDE AND INSTALL AT LAST NOTIFICATION APPLIANCE IN CIRCUIT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
14 EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. REFER TO PARTIAL SITE SIGNAL PLAN SHEET E102 FOR COORDINATION REFERENCE.
15 EXISTING FIRE ALARM DISTRIBUTED POWER MODULE TO REMAIN. EXTEND SPARE NOTIFICATION CIRCUITS AS INDICATED. REFER TO PARTIAL SITE SIGNAL PLAN, SHEET E102 FOR COORDINATION REFERENCE.
16 EXISTING FIRE ALARM FEEDER BETWEEN EXISTING FIRE ALARM CONTROL PANEL AND EXISTING FIRE ALARM DISTRIBUTED POWER MODULE TO REMAIN, NO WORK REQUIRED.
17 1/2" THREE 'N' CABLES (NOTIFICATION) AND ONE 'I' CABLE (INITIATION) TO BUILDING SIGNAL TERMINAL CABINET.
18 3/4" ONE 'N' CABLE (NOTIFICATION) AND ONE 'I' CABLE (INITIATION).
19 1/2" ONE 'N' CABLE (NOTIFICATION).
20 PROVIDE NEW ADDRESSABLE INTERFACE MODULE INSTALLED TO EXISTING FIRE ALARM CONTROL PANEL FOR WATER FLOW AND TAMPER SWITCH MONITORING. RUN 4 #14 CU THIN TO EACH SWITCH PER PARTIAL SITE FIRE ALARM PLAN, SHEET E101 AND CONNECT.

APPLICABLE CODES AND STANDARDS

- 2001 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2001 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. (2006 INTERNATIONAL BUILDING CODE VOLUMES 1-2 OF THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, WITH CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 C.C.R. 2005 NATIONAL ELECTRICAL CODE (NEC)
2001 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R. 2006 UNIFORM MECHANICAL CODE (UMC)
2001 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R. 2006 UNIFORM PLUMBING CODE (UPC)
2008 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2001 CALIFORNIA ELEVATOR SAFETY CODE OF REGULATIONS, TITLE 8
2001 CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24 C.C.R.
2001 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. 2006 INTERNATIONAL FIRE CODE (IFC)
2001 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R. 2006 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2008 TITLE 14 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2001 CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24 C.C.R.
PARTIAL LIST OF APPLICABLE STANDARDS:
2002 NFPA 13, AUTOMATIC SPRINKLER SYSTEMS
2001 NFPA 14, STANDPIPE SYSTEMS
2002 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
2002 NFPA 17A, WET CHEMICAL SYSTEMS
2001 NFPA 20, STATIONARY PUMPS
2001 NFPA 24, PRIVATE FIRE MAINS
2001 NFPA T2, NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARDS INTI FOR 'VISUAL DEVICES')
2006 NFPA 253, CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS
2004 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS REFERENCE CODE SECTION FOR NFPA STANDARDS - CBS (SFM) 3504.1
FIRE ALARM SYSTEM LEVEL OF VISIBILITY
THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA T2, SEC. 15.2)
FIRE ALARM SYSTEM TESTING REQUIREMENTS
UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY PER CHAPTER 1, NFPA T2, AND A CERTIFICATE OF COMPLETION SHALL BE PROVIDED TO THE OWNER PER CALIFORNIA ELECTRICAL CODE, SECTION 1006.2.4.2.1.1

FIRE ALARM SYMBOL SCHEDULE

Table with columns: Symbol, Description, and Notes. Includes symbols for Fire Alarm Master Panel, Distributed Power Module, Smoke Detector, Heat Detector, Interface Module, Manual Pull Station, Audible/Visible Device, and End of Line Resistor.

FIRE ALARM SYSTEM OPERATIONAL MATRIX

Table with columns: Symbol, Device Description, Activate Evacuation/Alarm, Annunciate at Building, Activate Fire/Smoke Dampers.

FIRE ALARM SYSTEM LEVEL OF AUDIBILITY

ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5 DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA T2, SEC. 4-3.2.1 AND 4-3.2.2) (FA-10)

FIRE ALARM SYSTEM INSTALLATION NOTES

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE AND ARTICLE 9. INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING SPEC LISTING NUMBERS FOR EACH COMPONENT, HAVE BEEN APPROVED BY DSA UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE INSPECTOR OF RECORD.

GENERAL ELECTRICAL CONDITIONS

SECTION 260500

DIVISIONS 0 AND 1 ARE HEREIN INCORPORATED AS A PART OF THIS SECTION BY REFERENCE.

I - GENERAL

ORDINANCES, REGULATIONS AND CODES

ALL WORK MUST CONFORM TO THE REQUIREMENTS HIGH FALL WITHIN THE SCOPE OF THE REGULATIONS IN THE CODES OR UNDER THE JURISDICTION OF ALL OF THE GOVERNING BODIES LISTED.

THE CALIFORNIA CODE OF REGULATIONS, TITLES M THRU Z.

THE NATIONAL ELECTRIC CODE AS APPLICABLE UNDER CURRENT STATE AND LOCAL REGULATIONS, IF ANY, (LATEST EDITION AND SUPPLEMENTS).

STATE BOARD OF HEALTH.

CAL-OSHA REGULATIONS.

NOTHING IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, SHALL RELIEVE THE CONTRACTOR FROM FULL COMPLIANCE WITH APPLICABLE PORTIONS OF ANY OF THE ABOVE REGULATIONS PERTAINING TO WORK WHICH HE IS INSTALLING UNDER THIS CONTRACT.

PERMITS AND FEES

PAY FOR AND OBTAIN ALL PERMITS, INSPECTION FEES, ETC., AS REQUIRED FOR THE COMPLETION OF ALL WORK INCLUDED IN THIS CONTRACT. ANY INSPECTION CERTIFICATES REQUIRED SHALL BE OBTAINED AND DELIVERED TO THE OWNER.

EXAMINATION OF DRAWINGS AND SITE

BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL CAREFULLY EXAMINE THE STRUCTURAL, MECHANICAL, PLUMBING AND ARCHITECTURAL DRAWINGS FOR THIS WORK, ALONG WITH THE SPECIFICATIONS FOR SAME IN ADDITION TO THE DRAWINGS AND SPECIFICATIONS GOVERNING THE WORK OF THIS TRADE. HE SHALL ALSO VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND FAMILIARIZE HIMSELF WITH ALL THE SITE CONDITIONS. NO SUBSEQUENT ALLOWANCES WILL BE MADE TO THE CONTRACTOR BECAUSE OF HIS NEGLIGENCE IN COMPLYING WITH THE ABOVE OR HIS ALLEGED INABILITY TO UNDERSTAND THE REQUIREMENTS.

CONDUCT OF THE WORK

THE CONTRACTOR SHALL MAINTAIN ON THE JOB A COMPETENT FOREMAN OR A SUPERINTENDENT AT ALL TIMES TO SUPERINTEND THE WORK.

CONTRACTOR'S RESPONSIBILITY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS AND EQUIPMENT UNTIL FINAL ACCEPTANCE BY THE OWNER. HE SHALL ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES ABOUT THE BUILDINGS. HE SHALL BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM HIS NEGLIGENCE OR CARELESSNESS AND NEGLECT OF HIS EMPLOYEES.

II - PRODUCTS

GENERAL

WITHIN THIRTY ONE (31) DAYS OF CONTRACT AWARD BY THE OWNER, THE CONTRACTOR SHALL SUBMIT A COMPLETE LISTING OF PRODUCTS HE INTENDS TO FURNISH, COMPLETE WITH MANUFACTURER AND CATALOG DESIGNATIONS, ALONG WITH CURRENTLY QUOTED LEAD TIMES FOR DELIVERY OF SAME. SHOULD THE CONTRACTOR ANTICIPATE THAT THE DELIVERY SCHEDULE OF ANY SPECIFIED PRODUCT MAY ADVERSELY IMPACT THE PROJECT CONSTRUCTION SCHEDULE, HE SHALL BRING IT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER AT THIS TIME.

WITHIN THIRTY FIVE (35) DAYS AFTER AWARD OF CONTRACT BY THE OWNER, THE CONTRACTOR SHALL MAKE SUBMITTALS FOR ALL MATERIAL TO BE USED ON THE PROJECT, WHETHER AS SPECIFIED OR SUBSTITUTIONS.

SUBMITTALS FOR ALL PROPOSED MATERIAL SHALL BE MADE AT ONE TIME IN A NEAT AND ORDERLY FASHION IN A SUITABLE BINDER WITH A TITLE SHEET, TABLE OF CONTENTS AND INDEXED TABS SEPARATING EACH GROUP OF MATERIALS ACCORDING TO THE SECTION AS OUTLINED IN THIS SPECIFICATION. ALL EQUIPMENT SHALL BE IDENTIFIED BY THE MARK NUMBER AS INDICATED ON THE DRAWINGS. ANY SUBMITTAL MADE SUBSEQUENT TO THE INITIAL EQUIPMENT SUBMITTAL MAY BE REJECTED WITHOUT REVIEW, OR THE ENGINEER MAY INVOKE THE CONTRACTOR, AT SENIOR ELECTRICAL ENGINEER HOURLY RATES, FOR ADDITIONAL REVIEW. SUBMITTAL OF A BID FOR THIS PROJECT SHALL INCLUDE A WRITTEN ACKNOWLEDGEMENT OF THESE TERMS FROM THE CONTRACTOR (PAYMENT FOR SUCH REVIEW SHALL BE MADE IN ADVANCE).

EQUIPMENT OR MATERIAL FURNISHED OR INCORPORATED IN CONSTRUCTION WITHOUT PRIOR APPROVAL OF THE ARCHITECT MAY BE REJECTED AND IF REJECTED SHALL BE REMOVED FROM THE STRUCTURE AND REPLACED WITH APPROVED EQUIPMENT OR MATERIAL AT THE CONTRACTOR'S EXPENSE.

ALL EQUIPMENT CHARACTERISTICS AND ACCESSORIES REQUIRED ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL BE HIGHLIGHTED, CIRCLED OR UNDERLINED. FOR ALL ITEMS NOT SCHEDULED THEREIN, CALCULATIONS AND OTHER INFORMATION RELATING TO SELECTION OF AN ITEM SHALL BE INCLUDED.

SUBMITTALS NOT CONFORMING TO THE ABOVE REQUIREMENTS WILL BE REJECTED AND RETURNED WITHOUT REVIEW.

SUBSTITUTIONS

THE SPECIFICATIONS OR DRAWINGS ARE IN NO WAY TO BE CONSIDERED AS BEING PROPRIETARY TOWARD ONE PRODUCT OR MANUFACTURER UNLESS NOTED AND SUBSTITUTIONS. ALL OTHER PRODUCTS, OR TYPES OF PRODUCTS LISTED THEREIN ARE INTENDED TO SET THE STANDARDS FOR PERFORMANCE, QUALITY, DESIGN, AND INSTALLATION PROCEDURE. HOWEVER, NO RIGHT IS TIED UPON THE PART OF THE CONTRACTOR TO SUBSTITUTE OTHER MATERIALS, PRODUCTS OR SYSTEMS WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT AND/OR ENGINEER.

ALL REQUESTS FOR SUBSTITUTION, IN ADDITION TO THE REQUIREMENTS SET FORTH IN DIVISIONS 0 AND 1, SHALL BE COMPLETE, PROVIDED IN TRIPlicate, IN WRITING AND SHALL INDICATE ALL INFORMATION REQUIRED THEREIN, INCLUDING SPECIFIC REFERENCES FROM THE SPECIFIED ITEM. THE REQUEST FOR SUBSTITUTION SHALL BE ACCOMPANIED BY PRODUCT LITERATURE, PERFORMANCE DATA, SPECIFICATIONS, DRAWINGS, SAMPLES OR OTHER MEANS AS MAY BE REQUIRED FOR PROPER EVALUATION BY THE ARCHITECT AND/OR ENGINEER.

REQUEST FOR SUBSTITUTION OF A PRODUCT SHALL CONSTITUTE REPRESENTATION BY THE CONTRACTOR THAT HE HAS INVESTIGATED THE PROPOSED PRODUCT AND HAS DETERMINED THAT IT IS EQUAL OR SUPERIOR, IN ALL RESPECTS, TO THE SPECIFIED PRODUCT.

SUBMIT A SEPARATE REQUEST FOR EACH PRODUCT SUBSTITUTION. DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. EACH SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING INFORMATION:

AN ITEMIZED COMPARISON OF THE PROPOSED SUBSTITUTION WITH THE SPECIFIED PRODUCT, LISTING VARIATIONS, ADVANTAGES, DISADVANTAGES, ETC. IN DETAIL.

A QUALITY OF FABRICATION PROCESS COMPARISON BETWEEN THE PROPOSED SUBSTITUTION AND THE SPECIFIED PRODUCT.

A PERFORMANCE COMPARISON BETWEEN THE PROPOSED SUBSTITUTION AND THE SPECIFIED PRODUCT.

A COST COMPARISON BETWEEN THE PROPOSED SUBSTITUTION AND THE SPECIFIED PRODUCT, DETAILING ANY ADDITIONAL CHARGES, CREDITS TO THE OWNER, ETC. RESULTING FROM THE SUBSTITUTION OF SPECIFIED EQUIPMENT.

INDICATE THE IMPACT THE SUBSTITUTION WILL HAVE UPON THE CONSTRUCTION SCHEDULE AND THE WORK OF ANY OTHER TRADES, IF ANY.

PROVIDE AN EXECUTED CONTRACTORS WAIVER OF RIGHTS TO ADDITIONAL PAYMENT AND/OR TIME THAT MAY BECOME NECESSARY SHOULD THE SUBSTITUTED PRODUCT FAIL TO PERFORM ADEQUATELY.

ALL PROPOSED SUBSTITUTIONS SHALL BE A STANDARD PRODUCT OF THE MANUFACTURING FIRM UNDER CURRENT MANUFACTURE AND BE A STANDARD CATALOG ITEM AT THE TIME OF BID COMPLETE WITH MANUFACTURER'S STANDARD WARRANTY.

ACCEPTANCE OF SUBSTITUTIONS WILL BE MADE SOLELY BY THE ARCHITECT AND/OR THE ENGINEER BASED UPON THE INFORMATION PROVIDED.

ACCEPTANCE OF SUBSTITUTIONS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR COMPLYING WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES IN OTHER PARTS OF THE WORK MADE NECESSARY BY HIS SUBSTITUTIONS, AND SHALL BEAR ALL EXPENSE INCURRED THEREIN WHETHER OR NOT SUCH REQUIREMENTS ARE IDENTIFIED AT THE TIME THE SUBSTITUTION SUBMITTAL IS MADE.

SUBSTITUTION SUBMITTALS SHALL BE MADE NO LATER THAN (40) TEN BUSINESS DAYS PRIOR TO THE BID CLOSING DATE. FAILURE TO SUBMIT WITHIN THIS DEADLINE CONSTITUTES A GUARANTEE ON THE PART OF THE CONTRACTOR THAT THE SPECIFIED PRODUCTS WILL BE SUPPLIED. ANY SUBSTITUTION SUBMITTAL MADE SUBSEQUENT TO OR DURING THIS PREREQUISITE TEN DAY PERIOD MAY BE REJECTED WITHOUT REVIEW, OR THE ENGINEER MAY INVOKE THE CONTRACTOR, AT SENIOR ELECTRICAL ENGINEER HOURLY RATES, MINIMUM TWO HOURS PER PRODUCT, FOR REVIEW OF ANY PRODUCT NOT LISTED IN THIS SPECIFICATION OR SHOWN IN THE DRAWINGS. PAYMENT OF THE REVIEW INVOICE SHALL NOT BE CONTINGENT UPON APPROVAL OF THE SUBSTITUTION SUBMITTAL AND SHALL BE INCLUDED WITH THE SUBMITTAL. SUBMITTAL OF A BID FOR THIS PROJECT SHALL INCLUDE A WRITTEN ACKNOWLEDGEMENT OF THESE TERMS FROM THE CONTRACTOR (PAYMENT FOR SUCH REVIEW SHALL BE MADE IN ADVANCE).

SYSTEM DRAWINGS DENOTING THE PLACEMENT OF THE SUBSTITUTED EQUIPMENT WITHIN THE DESIGN OF THE OVERALL SYSTEMS SHALL BE PROVIDED. THESE DRAWINGS SHALL SHOW DIMENSIONS, HEIGHTS, MOUNTING METHODS, ANY AFFECTED SYSTEM CALCULATIONS, ETC. FOR EACH OF THE SUBSTITUTED PRODUCTS AND INCLUDE ANY CHANGES REQUIRED TO THE BUILDING TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.

CATALOG DATA AND OPERATING INSTRUCTIONS

UPON COMPLETION OF THE WORK IN THIS CONTRACT, THE ARCHITECT SHALL BE FURNISHED WITH A COMPLETE SET OF CATALOG DATA WHICH DESCRIBES EACH PIECE OF EQUIPMENT INSTALLED UNDER THIS CONTRACT. THE CATALOG SHALL BE BOUND IN A SET AND SHALL BE CLEARLY LABELED AS TO EACH ITEM OF EQUIPMENT USED.

OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT SUBMITTED AND INSTALLED UNDER THIS CONTRACT PER REQUIREMENTS AS SET FORTH IN DIVISION I OF THESE SPECIFICATIONS. IN ADDITION TO THOSE REQUIREMENTS, THE FOLLOWING INFORMATION SHALL BE INCLUDED:

INTERCONNECTION WIRING DIAGRAMS BETWEEN DISCRETE PORTIONS OF THE COMPLETE SYSTEMS WHERE DEVIATION OCCURRED FROM THE DESIGNED INTERCONNECTION REQUIREMENTS OF THE CONTRACT DOCUMENTS.

WHERE EQUIPMENT SUBSTITUTION WAS MADE DURING THE COURSE OF THE PROJECT, VARYING SIGNIFICANTLY FROM A DESIGNED SYSTEMS REQUIREMENTS AS SHOWN IN THE CONTRACT DOCUMENTS, COMPLETE SYSTEM DRAWINGS, EQUIPMENT SPECIFICATION SHEETS AND ALL OTHER PERTINENT DOCUMENTATION SHALL BE PROVIDED IN THE BOUND SET OF OPERATION AND MAINTENANCE MANUALS.

WHERE APPLICABLE, PREVENTATIVE MAINTENANCE PROCEDURES AND MANUFACTURER'S SUGGESTED SCHEDULE FOR SUCH PREVENTATIVE MAINTENANCE FOR ALL ELECTRICAL EQUIPMENT SUPPLIED.

EMERGENCY SAFETY SHUT DOWN PROCEDURES DURING EQUIPMENT MALFUNCTION.

MANUFACTURER'S LITERATURE PROVIDED WITH EQUIPMENT SHALL BE BOUND IN THE SET OF OPERATION AND MAINTENANCE MANUALS ALONG WITH ALL OTHER PERTINENT INFORMATION.

III - DEVIATION

RECORD DRAWINGS

THE CONTRACTOR SHALL MAINTAIN "AS-CONSTRUCTED" RECORD DRAWINGS AT ALL TIMES, SHOWING THE EXACT INSTALLATION OF THE ELECTRICAL WORK GOVERNED UNDER THIS CONTRACT, INCLUDING EQUIPMENT LOCATIONS.

ELECTRONIC FILES IN AUTOCAD R14 OR LATER DRAWING FILE FORMAT (.DWG) ON CD-ROM OR FLOPPY DISKETTES AND A PRINTABLE SET OF RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER'S FACILITIES MAINTENANCE AND OPERATIONS DEPARTMENT AT PROJECT CLOSE OUT.

REFER TO DIVISION I FOR ADDITIONAL REQUIREMENTS.

LOCATIONS

THE WORK AS LAID OUT IS TO SOME EXTENT DIAGRAMMATIC, AND THE LOCATION THEREON INDICATED MAY BE APPROXIMATE ONLY. THE CONTRACTOR, THEREFORE, SHALL INSTALL ALL THE EQUIPMENT, APPARATUS, CONDUIT RINGS AND THE LIKE AS FOLLOWS:

ADHERE TO THE LOCATION INDICATED AS FAR AS POSSIBLE.

MAINTAIN AMPLIFIED HEAD ROOM IN ALL ROOMS AND PASSAGEWAYS, CLEARANCE AROUND ALL APPARATUS AND EQUIPMENT AND UNDER PIPE LINES FOR UNRESTRICTED PASSAGE AND FOR EASY SERVICING OF ALL APPARATUS, EQUIPMENT, DEVICES AND THE LIKE.

VERIFY THE EXACT LOCATIONS OF ALL FIXTURES AND OTHER APPARATUS OR DEVICES AS INDICATED ON THE DRAWINGS. IN THE EVENT THESE DRAWINGS DO NOT SUFFICIENTLY INDICATE THE LOCATIONS FOR ALL SUCH FIXTURES, APPARATUS OR DEVICES, THE CONTRACTOR SHALL OBTAIN THE EXACT LOCATIONS FROM THE ARCHITECT.

VERIFICATION OF DIMENSIONS

THE CONTRACTOR SHALL, AS WORK PROGRESSES, VERIFY THE DIMENSIONS OF THE SPACES AVAILABLE FOR THE INSTALLATION OF THE WORK AND HE SHALL ASSUME FULL RESPONSIBILITY FOR THE PROPER LOCATIONS AND GRADING OF EACH PORTION THEREOF.

WHERE THE WORK REQUIRES CONNECTIONS TO BE MADE TO EQUIPMENT THAT IS FURNISHED AND SET IN PLACE BY OTHERS, THE CONTRACTOR SHALL OBTAIN EXACT ROOM-IN-DIMENSIONS FROM THE MANUFACTURER OF SUCH EQUIPMENT AND HE SHALL INSTALL THE CONNECTIONS IN A NEAT AND WORKMANLIKE MANNER.

PRELIMINARY OPERATION

SHOULD THE OWNER REQUIRE THROUGH THE ARCHITECT THAT ANY PORTION OF THE SYSTEMS OR EQUIPMENT HEREIN SPECIFIED BE OPERATED PRIOR TO THE FINAL COMPLETION AND ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL CONSENT. SUCH OPERATION SHALL BE UNDER SUPERVISION AND DIRECTION OF THE CONTRACTOR, BUT ALL EXPENSES THEREOF SHALL BE PAID BY THE OWNER, SEPARATE AND DISTINCT FROM ANY MONEY PAID ON ACCOUNT THEREOF OF THE CONTRACT.

SUCH PRELIMINARY OPERATION, OR PAYMENT THEREOF, SHALL NOT BE CONSIDERED AS AN ACCEPTANCE OF ANY OF THE WORK UNDER THE CONTRACT. THE ARCHITECT SHALL APPROVE ANY EXPENSE INCURRED BY THE CONTRACTOR BEFORE PAYMENT BY THE OWNER.

CUTTING AND PATCHING

THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE WORK FOR THE INSTALLATION OF THE EQUIPMENT AND MATERIALS AS APPROVED BY THE ARCHITECT AND/OR ENGINEER. ALL PATCHING SHALL ACCURATELY MATCH THE ADJOINING WORK.

FOUNDATIONS AND SUPPORTS

THE CONTRACTOR SHALL PROVIDE ALL FOUNDATIONS, SUPPORTS AND HANGERS, ETC., AS REQUIRED TO INSTALL THE EQUIPMENT AS SPECIFIED OR SHOWN ON THE DRAWINGS. ALL EQUIPMENT SHALL BE SUPPORTED, BRACED AND CROSS-BRACED IN SUCH MANNER AS TO PREVENT SWAY AND/OR LATERAL MOVEMENT.

EXCAVATION AND BACKFILLING

EXCAVATIONS REQUIRED FOR THE INSTALLATION OF THE WORK SHALL BE DONE BY THIS CONTRACTOR. UNDERGROUND LINES OUTSIDE THE BUILDINGS SHALL BE INSTALLED WITH A MINIMUM COVER OF 24" EXCEPT DEPTH OF UTILITY SERVICES SHALL COMPLY WITH RESPECTIVE UTILITY COMPANY REQUIREMENTS.

THE CONDUIT SHALL BE LAID ON FIRM SOIL, CUT TRUE AND EVEN TO AFFORD BEARING FOR THE FULL LENGTH OF THE BARREL OF THE PIPE. ANY PART OF THE TRENCH EXCAVATED BELOW GRADE SHALL BE CORRECTED WITH THOROUGHLY COMPACTED MATERIAL APPROVED BY THE ARCHITECT.

WHEN THE BOTTOM UNCOVERED AT SUBGRADE IS SOFT AND, IN THE OPINION OF THE ARCHITECT, CANNOT SUPPORT THE CONDUIT, A FURTHER DEPTH SHALL BE EXCAVATED AND REFILLED TO CONDUIT FOUNDATION GRADE AS REQUIRED BY THE ARCHITECT.

BACKFILL

6" BELOW, AROUND, AND TO 6" ABOVE CONDUIT. MATERIAL SHALL BE SAND. PLACE CAREFULLY AROUND AND ON TOP OF PIPE, TAKING CARE NOT TO DISTURB CONDUIT CONSOLIDATE WITH VIBRATOR.

6" ABOVE CONDUIT TO GRADE. MATERIAL SHALL BE SANDY OR SILTY LOAM, FREE OF LUMPS, LAID IN 6" LAYERS, UNFORMALLY MIXED TO PROPER MOISTURE AND COMPACTED TO REQUIRED DENSITY. IF BACKFILL IS DETERMINED TO BE SUITABLE AND REQUIRED COMPACTION IS DEMONSTRATED BY LABORATORY TEST, WATER COMPACTION IN 6" LAYERS MAY BE USED, SUBJECT TO REVIEW BY ENGINEER.

COMPACTION

COMPACT TO DENSITY OF 95% WITHIN BUILDINGS AND UNDER WALKWAYS, DRIVEWAYS, TRAFFIC AREAS, PAVED AREAS, ETC. AND TO 90% ELSEWHERE. DEMONSTRATE PROPER COMPACTION BY TESTING AT TOP, BOTTOM AND ONE-HALF OF THE TRENCH DEPTH. PERFORM THESE TESTS AT THREE LOCATIONS PER 100' OF TRENCH.

NO EXCAVATION BELOW THE LEVEL OF, OR ADJACENT TO, FOUNDATIONS OF FOOTINGS SHALL BE MADE EXCEPT IN A MANNER APPROVED BY THE ARCHITECT.

A DETECTABLE TRACER TAPE (RED OR YELLOW FOR POWER CONDUITS, ORANGE FOR TELECOMMUNICATIONS AND CATV CONDUITS) STATING "CAUTION ELECTRIC LINE BURIED BELOW" SHALL BE INSTALLED 12" ABOVE CONDUIT, FULL LENGTH OF DITCH.

ELECTRICAL CONDUIT SHALL NOT BE RUN IN EXCAVATIONS PROVIDED FOR PLUMBING OR HEATING PIPES, UNLESS SEPARATED BY A MINIMUM OF 12 INCHES.

VERIFY LOCATION OF ALL UNDERGROUND LINES WITH OWNER AND UTILITY COMPANIES BEFORE STARTING EXCAVATION.

TEN (10) DAYS BEFORE DOING ANY EXCAVATION OR TRENCING CONTACT "UNDERGROUND ALERT SERVICE" 1-800-942-2444, ADVISE THEM OF WORK SCHEDULE AND COMPLY WITH THEIR RECOMMENDATIONS.

CLEANING UP

THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM ACCUMULATIONS OF HIS WASTE MATERIAL OR RUBBISH. AT THE COMPLETION OF THE WORK, HE SHALL REMOVE ALL HIS RUBBISH, TOOLS, SCAFFOLDING AND SURPLUS MATERIALS FROM AND ABOUT THE BUILDINGS, LEAVING THE PREMISES IN A CLEAN CONDITION.

ALL EXTERIOR SURFACES OF EXPOSED EQUIPMENT AND MATERIAL SHALL BE THOROUGHLY CLEANED OF ALL DIRT, GROUT, PLASTER AND OTHER DEBRIS, INCLUDING THE EXTERIOR SURFACES OF ALL CONDUIT, CONDUIT FITTINGS, CONDUIT HANGERS, INSULATION AND THE LIKE.

ALL SURFACES TO BE PAINTED SHALL BE CAREFULLY WIPED OR OTHERWISE CLEANED, CRACKS AND CORNERS SCRAPPED OUT CLEAN, GREASE AND OIL SPOTS REMOVED SO THAT SURFACES MAY RECEIVE PAINT WITHOUT FURTHER PREPARATION.

ALL FIXTURES AND PLATED MATERIALS SHALL BE THOROUGHLY CLEANED AND POLISHED.

DAMAGE BY LEAKS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY PART OF THE PREMISES CAUSED BY BREAKS IN CONDUIT OR FIXTURES FURNISHED AND/OR INSTALLED BY HIM UNDER THIS SPECIFICATION FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE PROJECT BY THE OWNER.

SITE CONDITIONS

WHERE EXISTING UTILITIES ARE SHOWN ON THE PLANS, EXTREME CARE SHALL BE EXERCISED IN EXCAVATING NEAR THESE UTILITIES TO AVOID ANY DAMAGE THEREOF, AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY SUCH DAMAGE CAUSED BY THIS OPERATION.

THE GENERAL LOCATION AND ARRANGEMENT OF CONDUIT, EQUIPMENT APPARATUS, ETC., AS SHOWN IN THE DRAWINGS OR HEREIN SPECIFIED AND ALL INSTALLATIONS SHALL BE IN ACCORDANCE THEREWITH. INFORMATION ON THE DRAWINGS RELATIVE TO EXISTING SERVICES IS APPROXIMATE ONLY. MINOR DEVIATIONS REQUIRED TO CONFORM TO ACTUAL LOCATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO OWNER.

SHOULD UTILITIES NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT FOR INSTRUCTIONS AS TO FURTHER ACTION. FAILURE TO DO SO WILL MAKE THE CONTRACTOR LIABLE FOR ANY DAMAGE THERE ARISING FROM HIS OPERATIONS AFTER DISCOVERY OF SUCH UTILITIES NOT SHOWN ON THE PLANS. THESE UTILITIES SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ARCHITECT. AN EQUITABLE ADJUSTMENT IN THE CONTRACT WILL BE MADE FOR THE ADDITIONAL WORK INVOLVED.

THE CONTRACTOR SHALL USE SPECIAL PRECAUTIONS WHERE EXCAVATIONS ARE MADE IN THE AREAS NEAR ELECTRICAL DUCTS SINCE THEY MAY BE HIGH VOLTAGE DUCTS. ALL SUCH DUCTS SHALL BE EXPOSED BY CAREFUL HAND EXCAVATION SO AS NOT TO DAMAGE THE DUCTS OR CAUSE INJURY TO PERSONNEL AND SHALL BE SUITABLY MARKED WITH WARNING SIGNS, BARRICADES, ETC. AS REQUIRED.

STANDARD PRACTICE

ALL WORK NOT SHOWN IN COMPLETE DETAILS SHALL BE INSTALLED IN CONFORMANCE WITH THE BEST NECA STANDARD PRACTICE FOR THE TRADE.

INTENT

IT IS THE INTENTION TO PROVIDE SYSTEMS THAT ARE COMPLETE IN EVERY RESPECT WITHOUT FURTHER COST TO THE OWNER. ANYTHING NOT SHOWN IN DRAWINGS, OR INDICATED IN THE SPECIFICATIONS, BUT REQUIRED FOR COMPLETE OPERATING SYSTEMS SHALL BE INCLUDED AS PART OF THIS CONTRACT. THIS SHALL INCLUDE ALL CONNECTIONS TO EXISTING SERVICES.

SPECIAL NOTE

ATTENTION OF THE CONTRACTOR IS HEREBY CALLED TO ALL WORK COVERED BY NOTES ON THE DRAWINGS. REMOVED CONDITIONS SPECIFY PARTICULAR DETAILS REQUIRED FOR THE WORK SO NOTED.

WORK COVERED BY NOTES MUST BE FURNISHED AND INSTALLED WHETHER IT IS SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR NOT.

GUARANTEES

EXCEPT AS OTHERWISE SPECIFIED, ALL MATERIALS, APPARATUS EQUIPMENT FURNISHED AND INSTALLED UNDER THIS SPECIFICATION SHALL BE NEW AND FREE FROM ALL DEFECTS. SHOULD ANY TROUBLE DEVELOP WITHIN A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE WORK, DUE TO DEFECTIVE OR FAULTY MATERIAL AND/OR WORKMANSHIP, THE TROUBLE SHALL BE CORRECTED AND MATERIAL AND EQUIPMENT REPLACED BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER.

SERVICES

THE LOCATION OF ANY EXISTING UTILITY SERVICES SHOWN ON THE DRAWINGS IS APPROXIMATE AND SHALL BE CHECKED BY THIS CONTRACTOR FOR EXACT LOCATION.

LIST OF MATERIALS

WITHIN THIRTY (30) CALENDAR DAYS AFTER THE AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF MATERIALS TO BE INSTALLED UNDER THIS CONTRACT, GIVING, IN THE CASE OF EACH ITEM OF MATERIAL TO BE USED, THE NAME OF THE ARTICLE.

ALL SUBSTITUTIONS OF SPECIFIED MATERIALS MUST BE APPROVED BY THE ARCHITECT AS STIPULATED IN THE GENERAL CONDITIONS.

ACCESS OPENINGS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT AND CONVENIENT ACCESS OPENINGS, PANELS, ETC., IN THE BUILDING CONSTRUCTION WHERE REQUIRED FOR THE MAINTENANCE OF, INSTALLATION AND/OR REMOVAL OF ALL ELECTRICAL EQUIPMENT, OR OTHER ITEMS OF THE VARIOUS SYSTEMS AND EQUIPMENT.

PURCHASE ORDERS AND ACCEPTANCE

THE CONTRACTOR SHALL FILE WITH THE ARCHITECT TWO (2) CERTIFIED COPIES OF ALL PURCHASE ORDERS, FOR MATERIALS, EQUIPMENT, APPLIANCES AND REBUILTS THEREOF WITHIN TWO (2) WEEKS FROM DATE OF NOTICE TO PROCEED WITH THE CONTRACT IF REQUESTED BY THE ARCHITECT.

THE CONTRACTOR SHALL FILE WITH THE ARCHITECT TWO (2) CERTIFIED COPIES OF ACCEPTANCE OF PURCHASE ORDERS FOR MATERIALS, EQUIPMENT, AND APPLIANCES BY THE MANUFACTURER, DISTRIBUTOR OR WHOLESALE HOUSE WITHIN SIX (6) WEEKS FROM THE DATE OF NOTICE TO PROCEED WITH THE CONTRACT IF REQUESTED BY THE ARCHITECT.

FURNISH TO PROVIDE SAME WITHIN THE STIPULATED TIME SHALL BE DEEMED SUFFICIENT CAUSE FOR THE ARCHITECT TO WITHHOLD CERTIFICATES OF PAYMENT FOR WORK COMPLETED OR MATERIALS AND EQUIPMENT PROVIDED BY THE CONTRACTOR OR HIS SUBCONTRACTORS TOWARD THE COMPLETION OF THEIR CONTRACTS.

END OF SECTION 260500

BASIC ELECTRICAL MATERIALS AND METHODS

SECTION 26200

DIVISIONS 0 AND 1 ARE HEREIN INCORPORATED AS A PART OF THIS SECTION BY REFERENCE.

I - GENERAL

SCOPE OF WORK

THIS PORTION OF THE WORK INCLUDES THE FURNISHING OF ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETE WIRING SYSTEM TO OUTLETS AND ALL EQUIPMENT SHOWN ON THE DRAWINGS OR COVERED BY THIS SECTION OF THE SPECIFICATIONS. IN GENERAL, THE WORK INCLUDES THE FOLLOWING:

ALL CONDUIT, CABLEING, DEVICES, TERMINATIONS NECESSARY FOR A COMPLETE EXTENSION OF THE EXISTING CAMPUS TELEPHONE SYSTEM.

THIS SHALL INCLUDE BUT NOT BE LIMITED TO INSTALLING CABLE IN EXISTING AND NEW CONDUIT PER PLANS BETWEEN THE TELEPHONE BACKROOM IN ADMINISTRATION BUILDING AND COMMUNICATIONS TERMINAL CABINET ON FIRST PORTABLE BUILDING. EXTERIOR CABLE BETWEEN BUILDINGS SHALL BE 25 PAIR, ESEX 40-0FT-40, AIRCORE/SEALED, TERMINATE IN COMMUNICATIONS TERMINAL CABINET ON SENIOR 1656M-50 FRANCH MARKS MOUNTED ON 5000 STAND OFF BRACKETS. DESIGNATED CATS GENERAL CABLE 3500 SHALL BE INSTALLED FROM NEAREST OF TO EACH RAIL TELEPHONE JACK IN CLASSROOMS (FUTURE SPACES) EXTEND 364 CABLE FROM SPEAKER TO TELEPHONE JACK. PROVIDE CORTELCO, EASYTOUCH PART NUMBER 240085-VOE-207, COLOR SANDSTONE HANDLE IN EACH CLASSROOM.

ALL CONDUIT, CABLEING, DEVICES, TERMINATIONS NECESSARY FOR COMPLETE EXTENSION OF EXISTING CAMPUS COMMUNICATION SYSTEM.

THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, INSTALLING CABLE IN EXISTING AND NEW CONDUIT PER PLANS TO COMMUNICATIONS TERMINAL CABINET ON FIRST PORTABLE BUILDING. EXTERIOR CABLE BETWEEN BUILDINGS SHALL BE 25 PAIR, ESEX 40-0FT-40, AIRCORE/SEALED, TERMINATE IN COMMUNICATIONS TERMINAL CABINET ON SENIOR 1656M-50 FRANCH MARKS MOUNTED ON 5000 STAND OFF BRACKETS. DESIGNATED WEST PENN 8944 CABLE SHALL BE INSTALLED FROM COMMUNICATION TERMINAL CABINET TO EACH SPEAKER IN CLASSROOMS. TERMINATE SHIELDED PAIR AT LOCAL. PROVIDE ATLAS 5072-H ZENITH SPEAKER IN EACH CLASSROOM. PROVIDE 3 SERVICE LOOPS OF CABLE AT SPEAKER WITHIN EACH CLASSROOM ATTIC.

ALL CONDUIT, CABLEING, DEVICES, TERMINATIONS NECESSARY FOR COMPLETE EXTENSION OF EXISTING CAMPUS TV. CABLE SYSTEM.

THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, INSTALLING CABLE IN EXISTING AND NEW CONDUIT PER PLANS TO COMMUNICATIONS TERMINAL CABINET ON FIRST PORTABLE BUILDING. EXTERIOR CABLE FROM ADMINISTRATION BUILDING TO COMMUNICATIONS TERMINAL CABINET ON FIRST PORTABLE BUILDING SHALL BE R66 GUAD SHIELD. PROVIDE SPLITTER IN COMMUNICATIONS TERMINAL CABINET AND IN EACH CLASSROOM. INTERIOR CABLE FROM COMMUNICATIONS TERMINAL CABINET TO CLASSROOMS SHALL BE R66 GUAD SHIELD CABLE. INSTALL R66 GUAD SHIELD CABLE WITH TELEPHONE CABLE.

ALL CONDUIT, CABLEING, DEVICES, TERMINATIONS NECESSARY FOR COMPLETE EXTENSION OF EXISTING CAMPUS DATA SYSTEM.

THIS SHALL INCLUDE BUT NOT BE LIMITED TO INSTALLING MULTI MODE FIBER IN EXISTING AND NEW CONDUIT PER PLANS FROM ADMINISTRATION BUILDING TO COMMUNICATIONS TERMINAL CABINET ON FIRST PORTABLE BUILDING. SITE DATA CABLEING FROM ADMINISTRATION BUILDING TO IDF CABINET SHALL BE 6 STRAND 625/25 FIBER OPTIC CABLE BETWEEN THE MAIN DISTRIBUTION FRAME AND IDF VIA COMMUNICATIONS TERMINAL CABINET ON FIRST PORTABLE CLASSROOM. TERMINATE FIBER OPTIC CABLE WITH SC STYLE CONNECTORS. INSTALL IDF CABINETS, FIBER TERMINATION UNITS AND COPPER PATCH PANELS IN THREE LOCATIONS. INSTALL DESIGNATED CATS GENERAL CABLE R6600 BETWEEN IDF AND CLASSROOM DATA JACKS. INSTALL DESIGNATED CATS GENERAL CABLE R6600 BETWEEN IDF AND TELEPHONE JACKS (FUTURE SPARE). PROVIDE AND INSTALL R45 DATA JACKS AND ALL PATCH CABLES REQUIRED.

ALL CONDUIT, CABLEING, DEVICES, TERMINATIONS NECESSARY FOR COMPLETE EXTENSION OF EXISTING CAMPUS FIRE ALARM SYSTEM.

THIS SHALL INCLUDE BUT NOT BE LIMITED TO INSTALLING CABLE IN EXISTING AND NEW CONDUITS PER PLAN FROM EXISTING MAIN FIRE ALARM PANEL, IN ADMINISTRATION BUILDING AND EXISTING DPM2 IN EXISTING CLASSROOM BUILDING. CONTRACTOR SHALL INSTALL AND TERMINATE ONE A628B PANEL BETWEEN THE EXISTING MAIN FIRE ALARM PANEL AND THE NEW DPM VIA THE TERMINAL CABINETS AS SHOWN ON THE DRAWINGS. INTERIOR CABLE SHALL BE WEST PENN 918 AND WEST PENN 978.

COMPLETE UTILITY SERVICES AND FACILITIES AS DETAILED ON THE PLANS AND AS REQUIRED BY THE SERVING UTILITY COMPANIES.

FURNISH INSTALL AND CONNECT WIRE, CONDUIT AND SWITCHES, ETC. REQUIRED FOR OTHER EQUIPMENT PROVIDED BY OTHER SECTIONS OF THESE SPECIFICATIONS.

FUSED DISCONNECT SWITCHES, ETC., FOR EQUIPMENT COVERED BY OTHER SECTIONS.

ALL HANGERS, ANCHORS, SLEEVES, CHASES AND SUPPORTS FOR FIXTURES, ALL ELECTRICAL EQUIPMENT AND MATERIALS.

ACCESS OPENINGS, PANELS, ETC., IN THE BUILDING CONSTRUCTION WHERE REQUIRED FOR THE MAINTENANCE OF, INSTALLATION AND/OR REMOVAL OF ALL EQUIPMENT, OR OTHER ITEMS OF THE VARIOUS ELECTRICAL SYSTEMS AND EQUIPMENT.

DEMOLITION WORK AS NECESSARY TO CLEAR THE WAY FOR THE WORK OF THIS PROJECT.

THE PATCHING AND REPAIR OF ALL WORK MODIFIED OR DAMAGED BY THE INSTALLATION OF WORK UNDER THIS CONTRACT.

ALL EXCAVATION, BACKFILL, CONCRETE PADS AND BASES REQUIRED FOR ELECTRICAL WORK INCLUDE PAYMENT OF ALL REQUIRED INSURANCE, PERMITS, FEES AND TAXES. ANY INSPECTION CERTIFICATES REQUIRED FOR THE COMPLETION OF ALL WORK INCLUDED IN THIS CONTRACT SHALL BE OBTAINED AND DELIVERED TO THE OWNER.

WORK NOT INCLUDED: THE FOLLOWING WORK SHALL BE DONE UNDER DIVISION 15 OF THESE SPECIFICATIONS:

FURNISHING OF ALL ELECTRICAL, OR PARTIALLY ELECTRICAL DEVICES RELATED UNIQUELY TO THE MECHANICAL EQUIPMENT AND ONLY AS SPECIFICALLY INDICATED IN DIVISION 15 OF THESE SPECIFICATIONS.

FURNISHING AND INSTALLATION OF ALL MOTORS.

FURNISHING AND INSTALLATION OF ALL EQUIPMENT, SUCH AS SOLENOID VALVES WHICH ARE TO BE INSTALLED IN PIPING LINES.

FURNISHING AND INSTALLATION OF ALL CONDUIT AND WIRING FOR TEMPERATURE CONTROLS AND ENERGY MANAGEMENT SYSTEMS.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE COMPLETE SYSTEMS, WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS, BUT WHICH ARE NECESSARY IN ORDER TO MAKE COMPLETE WORKING SYSTEMS, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED THEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED BY OTHER CONTRACTORS.

THE CONTRACTOR MUST COORDINATE HIS WORK WITH THE WORK OF OTHER TRADES SO AS TO PROVIDE RACEWAYS, CONDUITORS AND OUTLETS IN THE CORRECT LOCATION FOR THE EQUIPMENT SERVED, INCLUDING ALL MECHANICAL, AND SIGNAL EQUIPMENT AND CONNECT SAME. THE CONTRACTOR MUST PROVIDE POWER OF THE CORRECT VOLTAGE AND PHASE TO EACH ITEM OF EQUIPMENT.

BEFORE CONSTRUCTION STARTS, THE CONTRACTOR SHALL ARRANGE A COORDINATION MEETING WITH ALL OTHER CONTRACTORS SUPPLYING EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTIONS. ALL ELECTRICAL REQUIREMENTS SHALL BE VERIFIED AND ANY PROBLEMS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT. EQUIPMENT ITEMS TO VERIFY SHALL INCLUDE BUT NOT BE LIMITED TO: V

FEEDER PROTECTIVE DEVICES AS SHOWN SHALL BE MOLDED CASE CIRCUIT BREAKERS PROVIDING COMPLETE CIRCUIT OVERCURRENT PROTECTION BY HAVING INVERSE TIME AND INSTANTANEOUS TRIPPING CHARACTERISTICS, AND WHERE APPLICABLE, BE CURRENT LIMITING.

CIRCUIT BREAKERS SHALL BE OPERATED BY A TOGGLE-TYPE HANDLE AND SHALL HAVE A QUICK-MAKE, QUICK-BREAK OVER-CENTER SWITCHING MECHANISM THAT IS MECHANICALLY TRIP FREE. AUTOMATIC TRIPPING OF THE BREAKER SHALL BE CLEARLY INDICATED BY HANDLE POSITION. CONTACTS SHALL BE NON-HELD SILVER ALLOY AND ARC EXTINCTION SHALL BE ACCOMPLISHED BY MEANS OF DE-ION ARC GAUDES.

STANDARD TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE I.L. LISTED AS HACR TYPE BREAKERS FOR USE WITH HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT.

ALL CIRCUIT BREAKERS LOCATED IN SEPARATE ENCLOSURES, WHETHER NEMA 1 OR NEMA 3R RATED, SHALL INCLUDE A HANDLE PADLOCK ATTACHMENT.

CIRCUIT BREAKER INTERRUPTING CAPACITIES SHALL BE AS INDICATED ON THE DRAWINGS OR AS SPECIFIED HEREINAFTER. WHERE APPLICABLE, CIRCUIT BREAKERS SHALL BE LISTED FOR SERIES APPLICATION.

ALL CIRCUIT BREAKERS IN MAIN SWITCHBOARD SHALL HAVE SHORT CIRCUIT INTERRUPTING CAPACITY EXCEEDING THE MAXIMUM AVAILABLE AT SERVICE TRANSFORMER. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FAULT CURRENT INFORMATION FROM SERVING POWER COMPANY PRIOR TO INSTALLATION. SUBMIT LETTER OF VERIFICATION OF AVAILABLE FAULT CURRENT WITH MAIN SWITCHBOARD EQUIPMENT SUBMITTALS.

ALL CIRCUIT BREAKERS, 100 AMPS OR MORE, SHALL BE TESTED BY AN INDEPENDENT TESTING FIRM IN ACCORDANCE WITH NETA SPECIFICATIONS AND A REPORT SUBMITTED TO THE ARCHITECT. THE CONTRACTOR SHALL PAY FOR THE COST OF THIS REQUIREMENT. ANY CIRCUIT BREAKER THAT DOES NOT PASS THE TEST SHALL BE REPLACED.

TERMINAL CABINETS

TERMINAL CABINETS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED WITH HINGED DOORS AND LOCK MATCH PANEL BOARD LOCK. EXTERIOR FINISH TO BE SAME AS FOR PANEL BOARDS. PROVIDE 3/4" PLYWOOD BACKING INSIDE OF CABINET. PROVIDE PROPER NUMBER OF TERMINALS IN CABINETS AS REQUIRED.

PROVIDE FLAT MOUNT TERMINAL BLOCKS MOUNTED ON PLYWOOD BACKING INSIDE TERMINAL CABINETS FOR CONDUCTOR TERMINATION. PROVIDE QUANTITY OF TERMINAL BLOCKS FOR EACH SYSTEM AS REQUIRED. TERMINAL BLOCKS SHALL BE KALKA STANDARD 600-600A SERIES AS MANUFACTURED BY HARATHON SPECIAL PRODUCTS.

PROVIDE A BAKELITE NAMEPLATE FASTENED WITH SCREWS TO THE FACE OF EACH TERMINAL CABINET WHICH WILL IDENTIFY IT.

MATCH PANEL KEY

PROVIDE CIRCUIT DIRECTORY AND HOLDER ON INSIDE OF DOOR WITH ONE LINE FOR EACH CONDUCTOR ENTERING AND EACH CONDUCTOR LEAVING CABINET.

RECEPTACLES AND PLATES

FURNISH AND INSTALL 20A, 125 VOLT, 3 WIRE GROUNDING TYPE DUPLEX RECEPTACLES AT ALL RECEPTACLE OUTLETS AS INDICATED ON DRAWINGS, SPECIFICATION GRADE LEVITON, BRANT, PASS AND SEYMOUR, OR APPROVED EQUAL.

ALL RECEPTACLE PLATES SHALL BE STAINLESS STEEL. PROVIDE OUTLET BOXES FOR RECEPTACLES AS SPECIFIED HEREIN.

DEVICE COLOR TO BE IVORY IN LIGHT COLORED WALLS AND BROWN IN DARK COLORED WALLS.

TELEVISION OUTLETS

HALL OUTLETS SHALL PROVIDE 5 MHz-400 MHz BANDWIDTH, SHIELDED, RFI SEALED, WITH STEEL BACKPLATE AND MOIST PLASTIC FRONT FILLER PLATE. HALL OUTLETS SHALL BE WALL TAPS WITH A RANGE OF COUPLING VALUES FROM 4-30 DB AND 75 OHM IMPEDANCE. OUTLETS SHALL BE BLUNDER-TONGUE #17-6FT, TAP VALUE AS DETERMINED BY THE FIELD.

TAP OFFS SHALL BE PROVIDED IN EACH CLASSROOM. PROVIDE A 1 MAY TAP OFF, WITH TAP VALUE AS REQUIRED TO ACCOMMODATE SYSTEM SIGNAL LEVELS AT EACH TELEVISION OUTLET. TAP OFFS SHALL HAVE A FREQUENCY RANGE OF 5 TO 1000 MHz WITH AN OUTPUT TAP ISOLATION OF 18 TO 40 DB, A TRI-LINE LOSS OF BETWEEN 0.5 AND 5.5 DB, A TAP DOWN LOSS OF 3 TO 30 DB AND INPUT RETURN LOSS OF 12 TO 30 DB, DEPENDING ON TAP VALUE SELECTED. TAP OFFS SHALL BE BLUNDER-TONGUE #17-6FT OR APPROVED EQUAL. (WHERE DB INDICATES TAP VALUE TO BE SELECTED TO ACCOMMODATE SYSTEM SIGNAL LEVELS).

SPLITTERS SHALL BE PROVIDED WHERE REQUIRED. SPLITTERS SHALL HAVE A FREQUENCY RESPONSE OF 5 TO 150 MHz WITH EIGHT OUTPUTS MINIMUM. SPLITTER LOSS SHALL BE 0.5 DB, MAXIMUM INPUT RETURN LOSS 4 DB, MINIMUM ISOLATION BETWEEN INPUTS 21 DB, MINIMUM SPLITTER LOSS SHALL BE PROVIDED WITH -80 DB RFI SHIELDING. SPLITTERS SHALL BE BLUNDER-TONGUE #17-6FT OR APPROVED EQUAL. COORDINATE EXACT QUANTITY AND LOCATION OF SPLITTERS WITH DISTRICT ELECTRONICS DEPARTMENT PERSONNEL.

PROVIDE TERMINATORS FOR COAXIAL CABLE AND LINE TERMINATION, AS REQUIRED. TERMINATORS SHALL BE MALE TYPE, WEATHERPROOF WHERE REQUIRED, TO OHM, 1/4 WATT, 1/4" TYPE. TERMINATORS SHALL HAVE 25 DB RETURN LOSS TO 1000 MHz, 22 DB RETURN LOSS TO 650 MHz, AND 18 DB RETURN LOSS TO 840 MHz. PROVIDE TERMINATORS FOR ALL UNUSED COAXIAL INPUTS. TERMINATORS SHALL BE BLUNDER-TONGUE #17-6FT OR APPROVED EQUAL.

COMMUNICATIONS PROGRAM

RJ45 JACKS: LEVITON QUICKPORT 5610B-R5.

IDF CABINET: HUBBELL R54 WITH HUBBELL 15M61H FIBER TERMINATION BOX AND SP53C INERT MODULES.

PATCH PANEL: HUBBELL P54QUE WITH PCL2619T CABLE MANAGEMENT BAR.

RJ11 JACKS: LEVITON 60256-55.

CEILING MOUNTED SPEAKER ASSEMBLY: ATLAS 15072N, 10/12V DUAL VOLTAGE TRANSFORMER AND WHITE SPEAKER BATTLE.

SINGLE LINE TELEPHONE: CORTECO R240059V02EA, SANDSTONE COLOR.

TELECOMMUNICATIONS TERMINATION BLOCKS: 66 STYLE BLOCK, SIECON NETWORKING CABLING SOLUTIONS, M SERIES #56AN-50 PUNCH DOWN BLOCKS MOUNTED ON 509B STAND OFF BRACKETS.

CONDUCTORS

ALL WIRE INSTALLED IN THIS CONTRACT SHALL BE OF A STANDARD MANUFACTURER AS APPROVED BY THE NATIONAL BOARD OF FIRE UNDERWRITERS AND BE OF THE SIZE AS INDICATED ON THE DRAWINGS. ALL WIRE SHALL BEAR THE UNDERWRITER'S LABEL AND SHALL BE BROUGHT TO THE JOB IN UNBROKEN PACKAGES AND APPROVED BY THE JOB INSPECTOR BEFORE SAME IS INSTALLED.

ALL CONDUCTORS SHALL BE TYPE COPPER WITH THIN INSULATION UNLESS OTHERWISE NOTED.

NUMBER 12 AWG GAUGE WIRE SHALL BE THE SMALLEST GAUGE WIRE USED, EXCEPT FOR CONTROL CIRCUITS WHICH SHALL BE AS SHOWN ON PLANS OR AS SPECIFIED UNDER OTHER SECTIONS OF THESE SPECIFICATIONS.

ALL WIRE #6 AWG GAUGE OR LARGER SHALL BE STRANDED.

THE NEUTRAL CONDUCTOR OF ALL FEEDERS SHALL BE OF THE SAME SIZE AS THE PHASE CONDUCTORS.

SPLICES ON ALL WIRE LESS THAN 6 GAUGE SHALL BE WITH INSULATED IDEAL "RING NUTS", "SCOTCHLOCK", OR EQUAL, SPRING CONNECTORS.

SPLICES IN WIRES 6 GAUGE AND LARGER SHALL BE MADE WITH GRIP OR SOLDERLESS CONNECTOR, SCOTCH BURNYD OR EQUAL. CONNECTORS TO SWITCHES OR BUS BAR SHALL BE MADE WITH ONE PIECE LUGS FOR ALL WIRES, SIZED FOR CONDUCTORS AS SHOWN ON PLANS.

EACH BRANCH CIRCUIT SHALL BE MARKED WITH THE CIRCUIT NUMBER AT THE PANEL AND AT THE FIRST OUTLET NEAREST THE PANEL. E-Z CODE MARKERS (WESTERN LITHOGRAPH CO.) OR EQUAL SHALL BE USED TO MARK THE CIRCUITS.

CABLES

'A' CABLE SHALL BE SHIELDED, TWISTED PAIR, TWO SHIELDED, TWISTED PAIRS, ONE UNSHIELDED, TWISTED PAIR, 22 AWG, LOW CAPACITANCE, WEST PORN 1864 OR APPROVED EQUAL. (Inside speaker)

'A' CABLE SHALL BE UNSHIELDED, TWISTED PAIR, 24 AWG, LOW CAPACITANCE, ESSEX 101-011-40, AIRCORE/SEALPIC 25 PAIR OR APPROVED EQUAL.

'D' CABLE SHALL BE CATEGORY 5e, UNSHIELDED TWISTED PAIR, FOUR PAIR, 24 AWG, SOLID BARE COPPER, GENERAL CABLE #5500 OR APPROVED EQUAL. (Data, inside telephone)

'F' CABLE SHALL BE WEST PORN #40271, 1/2" STRANDED FIRE ALARM CABLE, AND 'F' CABLE SHALL BE WEST PORN #40275, 1/2" STRANDED FIRE ALARM CABLE.

'O' CABLES SHALL BE 6 STRAND, 62.5/25 MICRON, MULTIMODE FIBER OPTIC CABLES, OPTICAL CABLE CORPORATION'S DX SERIES CABLES.

'T' CABLE SHALL BE SUPERIOR ESSEX #18-14D-41, R66 QUAD SHIELD COAXIAL CABLE.

MOTOR CONDUITS

SHALL BE RIGID SWITCH WITH DUAL ELEMENT FEES. HEAVY DUTY RATED AND QUICK-MAKE QUICK-BREAK TYPE. FUSE RATING SHALL COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS. SWITCH SHALL BE I.L. LISTED. DISCONNECTS SHALL HAVE AN EXTERNAL OPERATING HANDLE, LOCKABLE IN THE OPEN OR CLOSED POSITION.

PROVIDE DISCONNECTS FOR ALL MOTORS IF NOT PROVIDED BY OTHERS.

DISCONNECT SWITCHES SHALL BE LOCATED 50 AS NOT TO OBSCURE ANY PART OF THE HVAC UNITS NAMEPLATE DATA.

DISCONNECTS SHALL BE HEAVY DUTY RATED. OPERATING HANDLE SHALL BE LOCKABLE IN OPEN OR CLOSED POSITION.

TRANSFORMER DRY TYPE

TRANSFORMER SHALL BE CLASS H INSULATION WITH TEMPERATURE RISE NOT EXCEEDING 150° C, IN A MAXIMUM AMBIENT OF 40° C, WITH RATED NAMEPLATE LOAD CONNECTED TO THE SECONDARY SIDE, AT RATED VOLTAGE.

TRANSFORMER SHALL BE BUILT IN ACCORDANCE WITH THE LATEST REVISED IEEE, ANSI AND NEMA STANDARDS.

GAZE TEMPERATURE SHALL NOT EXCEED 35° C, ABOVE AMBIENT.

DESIGNS SHALL INCORPORATE BUILT-IN VIBRATION DAMPPING SYSTEMS.

TERMINAL COMPARTMENT SHALL BE LOCATED TO INSURE TERMINATION OF CABLE LEADS IN TEMPERATURE LEVELS NOT TO EXCEED 80° C, AND TO PROVIDE FOR SIDE OR BOTTOM ENTRANCE OF CONDUIT. ENCLOSURES SHALL BE WEATHERPROOF AND RODENT PROOF. VENTILATION OPENINGS SHALL BE LOWERED TYPE. SCREENING WILL NOT BE ACCEPTABLE.

TRANSFORMER SHALL BE FURNISHED WITH 2 TAPS ABOVE AND BELOW RATED VOLTAGE, EACH 2 1/2%.

ACCEPTABLE MANUFACTURERS SHALL BE SQUARE "D" APPROVED OR EQUAL.

III - EXECUTION

CONDUIT SYSTEMS

A CONCEALED CONDUIT SYSTEM SHALL BE INSTALLED FOR ALL INTERIOR WIRING INCLUDING CONTROLS. CONDUIT SHALL BE RUN CONTINUOUS BETWEEN OUTLETS, ETC., AND WITH THE MINIMUM NUMBER OF BENDS.

CONDUIT RUNS FOR CIRCUITS OPERATING OVER 600V SHALL HAVE A GROUNDING BUSHING INSTALLED AT EACH TERMINATION.

ALL CONDUIT RUNS ON ROOF AND UP TO TEN FEET ABOVE FINISH GRADE SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH THREADED COUPLINGS AND CONNECTORS.

PVC 40 OR RIGID STEEL, FACTORY WRAPPED WITH PVC TAPE SHALL BE USED FOR UNDERGROUND RUNS.

WHERE UNDERGROUND CONDUIT CANNOT BE RUN BELOW BUILDING FOOTINGS THE CONTRACTOR SHALL PROVIDE PVC-80 SLEEVES THROUGH THE FOOTINGS THROUGH THE CONTRACTOR SHALL OBTAIN APPROVAL FOR ALL SLEAVE SIZES AND LOCATIONS WITH THE STRUCTURAL ENGINEER BEFORE INSTALLATION.

ALL CONDUIT RISERS THROUGH SLAB SHALL BE RIGID STEEL OR PVC FACTORY WRAPPED WITH PVC TAPE OR WITH FACTORY APPLIED PVC COATING AND SHALL EXTEND A MINIMUM OF FOUR INCHES (4") ABOVE FINISHED FLOOR.

ALL CONDUIT SHALL BE DELIVERED TO THE SITE OF CONSTRUCTION IN THEIR ORIGINAL BUNDLES. EACH LENGTH OF CONDUIT SHALL BEAR THE LABEL OF THE NATIONAL BOARD OF FIRE UNDERWRITERS. ALL CONDUIT SUBJECT TO ROUGH USAGE WHILE ON THE JOB BEFORE INSTALLATION AND NOT ACCEPTABLE TO THE ARCHITECT SHALL BE REMOVED FROM THE PREMISES UPON NOTICE.

CONDUIT INSTALLED IN MASONRY WALLS SHALL BE RIGID STEEL, GALVANIZED CONDUIT OR PVC, NOT IN SAME MASONRY CELL AS THE BUILDING STRUCTURAL REINFORCING STEEL.

THE JOINTS IN ALL CONDUITS INSTALLED UNDER CONCRETE SLABS ON THE GROUND OR UNDERGROUND, OR EXPOSED TO THE WEATHER, SHALL BE MADE LIQUID AND GAS-TIGHT. ALL UNDERGROUND CONDUIT OUTSIDE OF THE BUILDINGS SHALL BE BURIED TO A DEPTH OF NOT LESS THAN 24" BELOW FINISH GRADE. UTILITY SERVICES SHALL COMPLY WITH UTILITY COMPANY REQUIREMENTS. TWO OR MORE POWER OR TELECOMMUNICATIONS CONDUIT RUNS INSTALLED IN A COMMON TRENCH SHALL BE SEPARATED HORIZONTALLY BY AT LEAST FOUR INCHES (4"). TWO OR MORE POWER AND TELECOMMUNICATIONS CONDUIT RUNS INSTALLED IN A COMMON TRENCH SHALL BE SEPARATED HORIZONTALLY BY AT LEAST TWELVE (12"). ELECTRICAL CONDUIT RUNS INSTALLED IN A COMMON TRENCH WITH OTHER UTILITY LINES SHALL BE SEPARATED HORIZONTALLY FROM SUCH LINES BY AT LEAST TWELVE INCHES (12").

CHANGES IN DIRECTION SHALL BE MADE WITH CONDUIT SNEEP ELBOWS OR LONG RADIUS BENDS MADE ON THE JOB. WHERE TWO OR MORE CONDUITS ARE GROUPED IN EXPOSED LOCATION.

5 OR CONDUIT PENNIES HELD IN PLACE WITH CONDUIT BUSHINGS. SHOULD DIRT OR MOISTURE COLLECT IN ANY CONDUIT, THE CONTRACTOR SHALL SWAB THEM OUT TO THE SATISFACTION OF THE ARCHITECT.

CONDUITS ENDING AT THE MOTORS SHALL BE CARRIED AS CLOSE AS POSSIBLE TO THE TERMINAL BLOCKS MAKING ALLOWANCE FOR THE MOVEMENT OF THE MOTORS WHEN THEY ARE EQUIPPED WITH SLIDE RAILS. THE CONNECTION BETWEEN THE CONDUIT TERMINALS ON THE MOTOR AND THE CONDUIT SHALL BE MADE WITH LIQUID-TIGHT FLEXIBLE CONDUIT USING THE PROPER FITTINGS.

ALL CONDUITS WHERE THEY ENTER PANEL BOXES, RULL BOXES, OR OUTLET BOXES SHALL BE SECURED IN PLACE BY GALVANIZED LUGS - ONE (1) LOCKOUT INSIDE OF BOX. AN INSULATED THROAT SHALL BE USED WHERE CONDUCTORS ARE 44 OR LARGER.

WHERE CONDUITS ARE RUN EXPOSED, THE SAME SHALL BE INSTALLED STRAIGHT AND TRUE WITH REFERENCE TO THE ADJACENT CONSTRUCTION.

CONDUIT 1" AND ABOVE SHALL HAVE INSULATED THROAT BUSHINGS.

ANY CONDUIT INSTALLED UNDER BUILDING SHALL BE UNDER THE SLAB.

ALL BOXES FOR BRACKET OUTLETS SHALL BE EQUIPPED WITH 3/8" "NO-BOLT" FIXTURE STUD. THESE BOXES SHALL BE 50 SET THAT WHEN IN PLACE THE FIXTURE SHALL BE AT RIGHT ANGLES TO THE CEILING OR WALLS.

ALL EMPTY CONDUIT SHALL BE EQUIPPED WITH A #2 GALVANIZED IRON RULL WIRE OR NYLON RULL ROPE CONTINUOUS FROM OUTLET TO OUTLET.

FLEXIBLE CONDUIT WILL BE PERMITTED FOR CONNECTIONS LIGHTING FIXTURES TO JUNCTION BOXES.

FLEXIBLE CONNECTIONS IN OUTDOOR AND DAMP LOCATIONS SHALL BE FLEXIBLE LIQUID-TIGHT METAL CONDUIT OR NON-CORROSIVE SEAMLESS METALLIC TUBING WITH WATER-TIGHT CONNECTIONS.

INSTALL ROOF JACKS FOR THIS CONSTRUCTION IN ACCORDANCE WITH OTHER SECTIONS OF THIS SPECIFICATION.

THE MAXIMUM ALLOWED LENGTH OF FLEX CONDUIT AT EQUIPMENT CONNECTIONS IS 18".

EXPANSION JOINTS FOR CONDUIT SHALL BE PROVIDED WHERE REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.

NO CONDUIT SMALLER THAN 1/2 INCH ELECTRICAL TRADE SIZE SHALL BE USED.

UNLESS OTHERWISE INDICATED, SUPPORT UNITS ON A LEVEL BED OF CRUSHED STONE OR GRAVEL, GRADED FROM 1/2-INCH SIZE TO NO. 4 SIZE AND COMPACTED TO SAME DENSITY AS ADJACENT UNDISTURBED EARTH.

ELEVATION: IN PAVED AREAS, SET 50 COVER SURFACE SHALL BE FLUSH WITH FINISHED GRADE. SET COVERS OF OTHER ENCLOSURES 1 INCH ABOVE FINISHED GRADE.

INSTALL HANDHOLES WITH BOTTOM BELOW FROST LINE, BELOW GRADE.

INSTALL REMOVABLE HARDWARE, INCLUDING PULLING EYES, CABLE STANCHIONS, CABLE ARMS, AND INSULATORS, AS REQUIRED FOR INSTALLATION AND SUPPORT OF CABLES AND CONDUCTORS AND AS INDICATED. SELECT ARM LENGTHS TO BE LONG ENOUGH TO PROVIDE SPARE SPACE FOR FUTURE CABLES BUT SHORT ENOUGH TO PRESERVE ADEQUATE WORKING CLEARANCES IN ENCLOSURE.

FIELD-CUT OPENINGS FOR CONDUITS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. CUT WALL OF ENCLOSURE WITH A TOOL DESIGNED FOR MATERIAL TO BE CUT. SIZE HOLES FOR TERMINATING FITTINGS TO BE USED, AND SEAL AROUND PENETRATIONS AFTER FITTINGS ARE INSTALLED.

OUTLETS

IN GENERAL, THE LOCATIONS OF ELECTRICAL OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS, HOWEVER, THE CONTRACTOR SHALL MAKE ANY CHANGES NECESSARY TO SUIT CONDITIONS ON THE JOB OR REARRANGEMENT OF BUILT-IN FIXTURES AND EQUIPMENT AS DIRECTED BY THE ENGINEER OR HIS REPRESENTATIVE.

THE CONTRACTOR SHALL STUDY THE GENERAL BUILDING PLANS WITH RELATION TO SPACES SURROUNDING EACH OUTLET IN ORDER THAT HIS WORK MAY FIT THE WORK OF OTHERS AND THAT WHEN FIXTURES OR OTHER EQUIPMENT ARE INSTALLED THEY WILL BE SYMMETRICALLY LOCATED ACCORDING TO ROOM LAYOUT. REFER ALL CONFLICTS AND DISCREPANCIES PROMPTLY TO THE ARCHITECT.

OUTLET BOXES

OUTLETS FOR CONCEALED WIRING SHALL BE FLUSH WITH THE FINISHED WALL OR CEILING SURFACES. RULL BOXES, JUNCTION BOXES AND ALL OTHERS TO WHICH NO FIXTURE OR DEVICE IS TO BE ATTACHED, SHALL BE FITTED WITH BLANK COVER PLATES AND PAINTED TO MATCH SURROUNDINGS. IN ORDER TO REDUCE NOISE TRANSMISSION BETWEEN ROOMS, OUTLET BOXES SHALL NOT BE INSTALLED BACK TO BACK. THESE OUTLETS ARE SIDE BY SIDE AND FACED INTO OPPOSITE ROOMS. THE BOXES SHALL BE AT LEAST 6" APART, EXCEPT IN FIRE RATED WALLS, SPACE BOXES 24" APART. IF THE BOXES ARE CONNECTED TOGETHER, THE CONNECTION SHALL BE FLEXIBLE AND SHALL HAVE OPENINGS PACKED WITH FIBERGLASS.

THE CONTRACTOR SHALL INFORM HIMSELF OF WALL THICKNESS THROUGHOUT THE BUILDING AND SHALL PROVIDE OUTLET BOXES OF SUFFICIENT DEPTH THAT CAN BE FLUSH MOUNTED AND YET WILL BE DEEP ENOUGH TO CONTAIN THE PARTICULAR APPARATUS INVOLVED. LOCATION OF EXPOSED FILL OR JUNCTION BOXES WILL BE SUBJECT TO THE ARCHITECT'S APPROVAL.

WHERE MORE THAN ONE SWITCH OCCURS AT THE SAME LOCATION, USE MULTIPLE GANG OUTLET BOXES COVERED BY A SINGLE PLATE, PROVIDE BOX PARTITIONS AS REQUIRED BY THE C.E.C.

OUTLET BOX EXTENSIONS SHALL BE I.L. LISTED AND SHALL BE ATTACHED TO BOX WITH THREADED METAL SCREWS. METALLIC "FLASH GUARDS" ARE NOT PERMITTED TO BE USED AS BOX EXTENSIONS.

LOCATIONS OF OUTLETS

THE ARCHITECT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN THE INDICATED LOCATIONS BEFORE WORK IS ROUGHED IN WITHOUT ADDITIONAL CHARGE TO THE OWNER.

WHERE HANGCOT OCCURS AT THE 4'-6" LEVEL, CONFLICTING WITH A DEVICE MOUNTING HEIGHT, THE DEVICE SHALL BE MOUNTED LOWER IN THE HANGCOT AS NEAR THE 4'-0" LEVEL AS POSSIBLE, BUT IN NO CASE, SHALL THE DEVICE BE PARTIALLY IN THE HANGCOT AND PARTIALLY IN THE WALL.

THE DRAWINGS INDICATE THE ARRANGEMENT OF OUTLETS ON EACH BRANCH CIRCUIT AND THE CIRCUIT TAGS SHOW THE NUMBER OF THE CIRCUIT, AND THE BOARD TO WHICH IT WILL BE CONNECTED. CIRCUITS INDICATED WITH THE SAME NUMBERS SHALL BE CONNECTED TO THE SAME BREAKER ON THE PANEL BOARD.

ALL FEEDERS AND BRANCH CIRCUITS SHALL BE TAGGED IN ALL RULL BOXES AND IN THE GUTTERS OF ALL PANELS TO WHICH THEY CONNECT.

ALL WIRING SHALL BE INSTALLED WITH IDENTIFIED NEUTRAL CONDUCTORS.

NO WIRE SHALL BE INSTALLED UNTIL ALL WORK OF OTHER CONTRACTORS THAT MIGHT CAUSE INJURY TO THE SAID WIRE HAS BEEN COMPLETED. CARE SHALL BE USED TO FIT WIRE TO INSURE THAT NO DAMAGE OCCURS TO THE INSULATION. POWDERED SOAPSTONES OR WIRE EASE SHALL BE USED FOR PULLING IN WIRES.

IN MAKING THE CONNECTION OF ALL BRANCH CIRCUITS TO THE TERMINALS OF SWITCHES, BASE PLUGS, ETC., THE WIRES SHALL BE LOOPED AROUND THE BINDING SCREWS OR BE FITTED WITH CONNECTING LUGS. AT THE CEILING OUTLETS, THE CONTRACTOR SHALL LEAVE NOT LESS THAN 6" OF FREE ENDS ON EACH WIRE FOR CONNECTIONS TO THE FIXTURES.

NO SPLICES SHALL BE PERMITTED EXCEPT IN OUTLET BOXES, AND IN PANEL BOARD GUTTERS.

SWITCHES AND RECEPTACLES SHALL BE SECURELY FASTENED TO THE OUTLET BOX. WHERE THE OUTLET BOX GIVES ARE BACK OF THE FINISHED WALLS THE SWITCH OR RECEPTACLE SHALL BE BUILT OUT FROM THE SAME WITH WAGNERS SO THAT IT IS RESIDUALLY HELD IN PLACE TO THE BOX. THE FLOATING OF ANY SWITCH OR RECEPTACLE WILL NOT BE PERMITTED.

ALL SIGNAL AND COMMUNICATIONS CONDUCTORS SHALL BE IDENTIFIED IN TERMINAL CABINETS AS TO TYPE OF SYSTEM, E.G. CLOCK, BELL, FIRE ALARM, ETC., AS WELL AS THE LOCATION OF THE OTHER END OF THE CONDUCTOR BY ROOM NUMBER OR NAME, AS DIRECTED BY THE OWNER. IDENTIFICATION SHALL BE BY NUMBERS AT TERMINAL STRIPS AND A NUMBERED DIRECTORY IN A CARD HOLDER INSIDE THE TERMINAL CABINET.

FIRE ALARM SYSTEM WIRING SHALL BE COLOR-CODED AS FOLLOWS:

INITIATING DEVICES - TWO YELLOW WIRES, TWO ORANGE WIRES.
SIGNALLING DEVICES - TWO BLACK WIRES, TWO RED WIRES.

TELECOMMUNICATION SYSTEM WIRING SHALL BE COLOR-CODED GREEN AND YELLOW.

SECURITY SYSTEM WIRING SHALL BE COLOR-CODED BLUE AND YELLOW.

ALL POWER WIRING #6 GAUGE AND SMALLER SHALL BE FACTORY COLOR CODED. FOR LARGER THAN #6, MARK CONDUCTORS ON EACH END AND AT ALL JUNCTION AND/OR RULL BOXES WITH A 1" BAND OF COLORED PRESURE-SENSITIVE PLASTIC TAPE. FOR ISOLATED GROUND WIRES, MARK WITH A 1" BAND OF GREEN TAPE, FOLLOWED BY A 1" BAND OF YELLOW TAPE, FOLLOWED BY A 1" BAND OF GREEN TAPE. COLORS FOR EACH PHASE AND THE NEUTRAL SHALL BE CONSISTENT THROUGHOUT THE SYSTEM. COLOR CODE SHALL BE AS FOLLOWS:

PHASE A BLACK
PHASE B RED
PHASE C BLUE
NEUTRAL WHITE
EQUIPMENT GROUND GREEN

THE WHITE OR GRAY CONDUIT SHALL BE THE NEUTRAL AT EACH OUTLET. CONDUCTORS HAVING WHITE, GRAY OR GREEN COVERING SHALL NOT BE USED TO INDICATE OTHER THAN NEUTRAL OR GROUNDING. THIS LIMITATION APPLIES TO ALL POWER, LIGHTING, AND CONTROL CIRCUITS.

INSTALLATION OF CONDUCTORS SHALL BE MADE IN A NEAT AND WORKMANLIKE MANNER TO MEET CODE REQUIREMENTS AND SHALL BE RUN CONTINUOUS WITHOUT HELD, SPLICE OR JOINT BETWEEN BOXES. DO NOT INSTALL WIRES IN CONDUIT UNLESS THE ENTIRE SYSTEM OF CONDUIT AND OUTLET BOXES ARE PERMANENTLY IN PLACE. ALL CONDUCTORS SHALL BE PULLED USING A I.L. APPROVED WIRE LUBRICANT.

MAKE ALL TERMINATIONS AT MOTORS USING 3M SERIES 5300 MOTOR LEAD/CABLE SPLICING KITS. MAKE CONNECTIONS PER 3M WRITTEN INSTALLATION PROCEDURES.

ON ALL BOLTED ELECTRICAL CONNECTIONS, THE CONTRACTOR SHALL USE BELVILLE WAGNERS.

ALL WIRING TO BE NEATLY BUNDLED AND TIED WITH NYLON CORD OR PLASTIC STRAPS.

SPLICES IN UNDERGROUND BOXES SHALL BE MADE WITH GRIP OR COMPRESSION CONNECTORS AND INSULATED WITH HEAT SHRINK SLEEVES OR WITH SPLICE KITS LISTED BY THE MANUFACTURER FOR NET LOCATIONS. WIRE NUTS ARE NOT PERMITTED.

THE CONTRACTOR SHALL EXERCISE EVERY PRECAUTION TO OBTAIN GOOD CONTACTS AT ALL PANEL BOXES, RULL BOXES, ETC.; HOWEVER, IT IS NOT POSSIBLE TO OBTAIN GOOD CONTACTS, THE CONDUITS SHALL BE BONDED AROUND THE BOXES WITH A #6 AWG GAUGE, THIN WIRE WITH GROUND CLAMPS.

ALL EQUIPMENT CASES, MOTOR FRAMES, ETC. SHALL BE COMPLETELY GROUNDING TO SATISFY APPLICABLE CODE REQUIREMENTS.

AT EACH BUILDING THE INTERIOR HOT AND COLD WATER PIPING SHALL BE BONDED TO THE BUILDING SERVICE EQUIPMENT PER C.E.C. #250104.

DO NOT USE UNDERGROUND GAS PIPING AS A GROUNDING ELECTRODE.

PULL A GREEN GROUND WIRE IN ALL CONDUITS, BOTH METALLIC AND NON METALLIC.

EACH DISCONNECT SWITCH SHALL HAVE A GROUND CONDUCTOR (LAY IN WIRE TYPE) WHICH SHALL BE USED FOR GROUNDING THE DISCONNECT ENCLOSURE. THE GROUND WIRE SHALL CONTINUE AND BE CONNECTED TO THE ENCLOSURE OF THE EQUIPMENT SERVED.

WHERE THERE IS MORE THAN ONE BUILDING SUPPLIED FROM A COMMON SERVICE, PROVIDE A GROUNDING ELECTRODE AT EACH BUILDING PER C.E.C. #250322.

GROUNDING CONDUCTORS: FOR INSULATED CONDUCTORS, COMPLY WITH DIVISION 16 SECTION "CONDUCTORS." ALL GROUNDING CONDUCTORS SHALL BE COPPER.

EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE. UNDERGROUND CONDUCTORS SHALL BE BARE, TINED, STRANDED, UNLESS OTHERWISE INDICATED.

BARE COPPER CONDUCTORS SHALL COMPLY WITH THE FOLLOWING: SOLID CONDUCTORS: ASTM B 3; ASSEMBLY OF STRANDED CONDUCTORS: ASTM B 8; TINED CONDUCTORS: ASTM B 33.

COPPER BONDING CONDUCTORS SHALL BE PROVIDED AS FOLLOWS: BONDING CABLE: 28 KCMIL, 14 STRANDS OF NO. 11 AWG COPPER CONDUCTOR, 1/4 INCH IN DIAMETER; BONDING CONDUCTOR: NO. 4 OR NO. 6 AWG, STRANDED COPPER CONDUCTOR; BONDING JIMPER: BARE COPPER TAPE, BRANDED BARE COPPER CONDUCTORS, TERMINATED WITH COPPER FERRULES 1-3/8 INCHES WIDE AND 1/8-INCH THICK; TINED BONDING JIMPER: TINED COPPER TAPE, BRANDED COPPER CONDUCTORS, TERMINATED WITH COPPER FERRULES 1-3/8-INCHES WIDE AND 1/8-INCH THICK.

CONNECTOR PRODUCTS: COMPLY WITH IEEE 801 AND UL 461, LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED ITEMS.

BOLTED CONNECTORS SHALL BE BOLTED-PRESSURE-TYPE CONNECTORS, OR COMPRESSION TYPE.

WELDED CONNECTORS SHALL BE EXOTHERMIC-WELDED TYPE, IN KIT FORM, AND SELECTED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

GROUNDING ELECTRODES: GROUND RODS SHALL BE 1/2" LONG, COPPER-CLAD.

TEST WELLS FOR GROUND RODS SHALL BE UNDERGROUND HAND HOLES AS SPECIFIED IN DIVISION 16 SECTION "FOLLOWUPS" AND SHOWN ON THE DRAWINGS.

MOUNTING HEIGHTS OF EQUIPMENT: UNLESS OTHERWISE SPECIFIED ELSEWHERE OR SHOWN ON THE PLANS, THE FOLLOWING MOUNTING SHALL APPLY:

PANEL BOARDS 4 SIGNAL TERMINAL CABINETS, DISCONNECT SWITCHES, CONNECTORS: 6'-0" TOP OF BOX
4'-6" TO CENTER LINE
4'-4" TO CENTER LINE

IDENTIFICATION OF SWITCHES AND APPARATUS

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

ALL WARNING, CAUTION, AND INSTRUCTION SIGNS WHERE REQUIRED TO COMPLY WITH 24 CFR, CHAPTER XVII, PART 1701.65, AND WHERE NEEDED TO ENSURE SAFE OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND OF ITEMS WHICH THEY CONNECT, INSTALL ENGRAVED PLASTIC-LAMINATED INSTRUCTION SIGNS WITH IMPROVED LEGIBLE PRINTING INSTRUCTIONS. THESE SIGNS ARE REQUIRED FOR SYSTEM OR EQUIPMENT OPERATION. INSTALL METAL-BACKED BUTYRATE SIGNS FOR OUTDOOR USES.

CONCRETE BASES: CONSTRUCT CONCRETE BASES OF DIMENSIONS INDICATED, BUT NOT LESS THAN 4 INCHES LARGER, IN BOTH DIRECTIONS, THAN SUPPORTED UNIT. FOLLOWS SUPPORTED EQUIPMENT MANUFACTURER'S ANCHORAGE RECOMMENDATIONS AND SETTING TEMPLATES FOR ANCHOR-BOLT AND THE LOCATIONS, UNLESS OTHERWISE INDICATED. USE 3000-PSI, 28-DAY COMPRESSIVE-STRENGTH CONCRETE AND REINFORCEMENT AS SPECIFIED IN DIVISION 3 SECTION "CAST-IN-PLACE CONCRETE."

FIRE RATED AREAS: WHERE CONDUIT, CABINETS, OR BOXES PENETRATE FIRE RATED CEILINGS, WALLS OR FLOORS PROVIDE A FIRE RATED ENCLOSURE OR FIRE STOP. RATING OF ENCLOSURE OR FIRE STOP SHALL MATCH OR EXCEED RATING OF AREA PENETRATED. VERIFY LOCATION OF FIRE RATED AREAS WITH ARCHITECTURAL DRAWINGS.

WHERE OUTLET BOXES ARE RECESSED ON OPPOSITE SIDES OF A FIRE RATED WALL, BOXES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES. WHERE OPENING FOR STEEL ELECTRICAL OUTLET BOXES EXCEED 16 SQ. INCHES IN AREA, OR AN AGGREGATE OF MORE THAN 100 SQ. INCHES FOR ANY 100 SQ. FEET OF WALL OR PARTITION AREA, FIRE STOPPING IS REQUIRED.

PENETRATIONS IN WALLS, FLOOR OR CEILINGS REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED. FIRE-STOPPING SHALL BE OF AN APPROVED MATERIAL, SECURELY INSTALLED AND CAPABLE OF MAINTAINING ITS INTEGRITY WHEN SUBJECTED TO THE TIME-TEMPERATURE CURVE OF STATE FIRE MARSHAL STANDARD 12-49.3 AND STANDARD 12-45-1. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY AND KEPT AT THE JOB SITE.

HEATING, AIR CONDITIONING, PLUMBING AND OTHER MECHANICAL WORK:

GENERAL: INSTALL ALL ELECTRICAL EQUIPMENT WHERE IT IS NOT ALREADY INSTALLED AS A PART OF A UNIT FURNISHED BY THE EQUIPMENT CONTRACTOR. (SEE DRAWINGS OF RESPECTIVE CONTRACTOR).

ALL MOTOR OUTLETS AND CONTROL OUTLETS SHOWN ON THE PLANS ARE APPROXIMATE ONLY