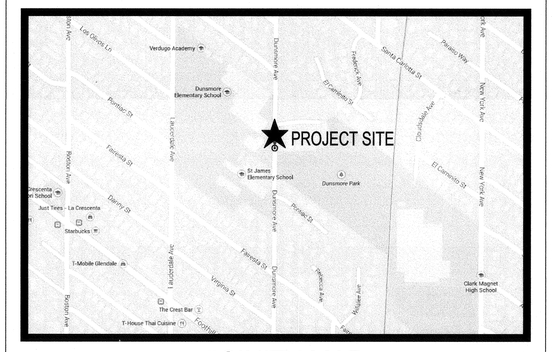
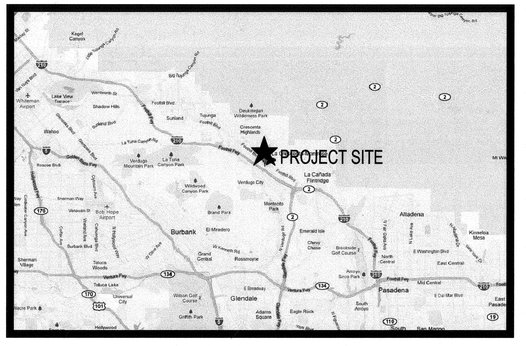
RELOCATABLE CLASSROOMS - PHASE 2
DUNSMORE ELEMENTARY SCHOOL

4717 DUNSMORE AVE. LA CRESCENTA, CA

GLENDALE UNIFIED SCHOOL DISTRICT



VICINITY MAP



REGIONAL MAP

north

tBP /Architecture

4611 Teller Avenue - Newport Beach - California - 92660
http://www.tbparchitecture.com
ph: 949.673.0300 - fx: 949.732.3895

NOTE:
THIS PROJECT WILL NOT BE CERTIFIED UNTIL A # 03-118062. IS CERTIFIED.

tBP
Architecture
Planning
Interiors

tBP
architecture
planning
interiors

tBP/Architecture
4611 Teller Avenue
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architect

consultant

48 SHEET TOTAL
+ DSA 103 SHEETS

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A#03-118937
AC. FLS SPOT CHECK
DATE APR 03 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

DUNSMORE ELEMENTARY SCHOOL
RELOCATABLE CLASSROOMS - PHASE 2
GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018

Rev:	date:	description:

drawing title:
COVER SHEET

drawing no.:
T-1
drawing of

ABBREVIATIONS

&	AND	(E)	EXISTING	K	KIP (1000 LB)	R.	RISER
∠	ANGLE	EA.	EACH	KIT.	KITCHEN	RAD.	RADIUS
@	AT	E.J.	EXPANSION JOINT	KO	KNOCKOUT	R.D.	ROOF DRAIN
℄	CENTERLINE	ELEC.	ELECTRICAL	KVA	KILOVOLT AMPERE	RDWD.	REDWOOD
⌀	DIAMETER OR ROUND	ELEV.	ELEVATION			REF.	REFERENCE
#	NUMBER	EMER.	EMERGENCY	LAB.	LABORATORY	REFR.	REFRIGERATOR
		ENCL.	ENCLOSURE	LAM.	LAMINATED	REG.	REGISTER
AB	ANCHOR BOLT	ENG	ENGINEER	LAV.	LAVATORY	REINF.	REINFORCING
AC	ASPHALTIC CONCRETE	ENGY	ENERGY	LB.	POUND	REQD.	REQUIRED
ACP	ACOUSTICAL PANEL	ENTR	ENTRANCE	LDG	LANDING	RESIL.	RESILIENT
ACT	ACOUSTICAL TILE	EP	EPOXY ENAMEL	LL	LIVE LOAD	RET	RETURN
ACOUS	ACOUSTICAL	EQ.	EQUAL	LT	LIGHT	REV.	REVERSE
AD	AREA DRAIN	EQUIP.	EQUIPMENT	LTF	LINOLEUM TILE FLOORING	RFG	ROOFING
ADH	ADHESIVE	EST.	ESTIMATE	LTG	LIGHTING	RM.	ROOM
ADJ	ADJACENT	E.W.C.	ELECTRIC WATER COOLER	LVL	LEVEL	R.O.	ROUGH OPENING
AFF	ABOVE FINISH FLOOR	EWH	ELECTRIC WATER HEATER	LVR	LOUVER	R.T.F.	RUBBER TILE FLOORING
AFP	ACCORDIAN FOLDING PARTITION	EXH	EXHAUST				
AGGR	AGGREGATE	EXIST.	EXISTING	MAINT	MAINTENANCE	S.B.	SPLASH BLOCK
ALT	ALTERNATE	EXP.	EXPANSION	MAN	MANUAL	S.C.	SOLID CORE
ALUM	ALUMINUM	EXPSD.	EXPOSED	MAS	MASONRY	SCHED.	SCHEDULE
AMP	AMPERE	EXT.	EXTERIOR	MATL.	MATERIAL	SCN	SOLID CORE NATURAL FINISH
ANOD	ANODIZED			MAX.	MAXIMUM	SCP	SOLID CORE PAINT FINISH
APPROX	APPROXIMATELY	F	FACTORY FINISH	MCC	MOTOR CONTROL CENTER	SCPL	SOLID CORE P.LAM FINISH
ARCH	ARCHITECT	F.A.	FIRE ALARM	MECH.	MECHANICAL	S.D.	STORM DRAIN
ASB	ASBESTOS	FC	FOOTCANDLE	MED	MEDIUM	SECT.	SECTION
ASSY	ASSEMBLY	F.D.	FLOOR DRAIN	MEZZ	MEZZANINE	SF	SQUARE FOOT
		FDC	FIRE DEPARTMENT CONNECTION	MFR.	MANUFACTURER	SHT.	SHEET
BAT	BATTERY	FDN	FOUNDATION	MH	MANHOLE	SIM.	SIMILAR
BBD	BULLETIN BOARD	F.E.	FIRE EXTINGUISHER	MIN.	MINIMUM	SLR	SEALER
BD	BOARD	F.E.C.	FIRE EXTINGUISHER CABINET	MIR	MIRROR	SPEC.	SPECIFICATIONS
BLDG	BUILDING	F.F.	FINISH FLOOR	MISC.	MISCELLANEOUS	SPLY	SUPPLY
BLKG	BLOCKING	F.G.	FINISHED GRADE	MKR	MARKER	SQ	SQUARE
BLO	BLOWER	F.H.	FIRE HYDRANT	MTL	METAL	S.SK.	SERVICE SINK
BLR	BOILER	FIN.	FINISH	MTD.	MOUNTED	SST.	STAINLESS STEEL
BLW	BELOW	F.L.	FLOW LINE	MUL.	MULLION	ST	STREET
BM	BEAM	FLASH.	FLASHING	MVBL	MOVABLE	STAG	STAGGERED
BO	BOTTOM OF	FLR.	FLOOR			STC	SOUND TRANSMISSION CLASS
BRKR	BREAKER	FLUOR.	FLUORESCENT	(N)	NEW	STD.	STANDARD
BTU	BRITISH THERMAL UNIT	F.O.	FACE OF	NAT.	NATURAL	STL.	STEEL
BUR	BUILT UP ROOFING	F.O.C.	FACE OF CONCRETE	NEG	NEGATIVE	STN	STAIN FINISH
		F.O.F.	FACE OF FINISH	N.I.C.	NOT IN CONTRACT	STOR	STORAGE
CAB	CABINET	F.O.M.	FACE OF MASONRY	NO.	NUMBER	STRUCT.	STRUCTURAL
CARP	CARPET	F.O.S.	FACE OF STUD	NOM.	NOMINAL	SURF	SURFACE
CAT	CATALOG	FPP	FOLDING PANEL PARTITION	N.T.S.	NOT TO SCALE	SUSP.	SUSPENDED
CB	CATCH BASIN	FPW	FOLDING PANEL WOOD DOOR			SV	SHEET VINYL
CEM	CEMENT	F.R.	FIRE RETARDANT	O.A.	OVERALL	SWBD	SWITCHBOARD
CF	CURB FACE	F.R.A.	FIRE RATED ASSEMBLY	O.C.	ON CENTER	SWGR	SWITCHGEAR
CFM	CUBIC FEET PER MINUTE	F.R.P.	FIBERGLASS REINFORCED PANEL	O.D.	OUTSIDE DIAMETER	SWR	SEWER
CHBD	CHALKBOARD	F.S.	FLOOR SINK	O.F.	OVERFLOW DRAIN	SYM.	SYMBOL
CHEM	CHEMICAL	FT.	FOOT OR FEET	OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED	SYS	SYSTEM
CHWR	CHILLED WATER RETURN	FTG.	FOOTING				
CHWS	CHILLED WATER SUPPLY	FURR.	FURRING	OFF	OFFICE	T.	TREAD
CI	CAST IRON	FXTR	FIXTURE	OFOI	OWNER FURNISHED-OWNER INSTALLED	T. &B.	TOP AND BOTTOM
CIR	CIRCLE					T. & G.	TONGUE AND GROOVE
CJ	CONTROL JOINT	G.	GAS	OPNG.	OPENING	T.C.	TOP OF CURB
CL	CENTERLINE	GA.	GAGE	OPP.	OPPOSITE	TD	TRENCH DRAIN
CLG	CEILING	GALV.	GALVANIZED	OVHD	OVERHEAD	TECH	TECHNICAL
CLO	CLOSET	GB	GRAB BAR			TEL.	TELEPHONE
CLRM	CLASSROOM	G.I.	GALVANIZED IRON	PART.	PARTITION	TEMP.	TEMPERATURE
CMT	CERAMIC MOSAIC TILE	GL.	GLASS	PB	PULL BOX	T.G.	TOP OF GRATE
CMU	CONCRETE MASONRY UNIT	GLU.LAM.	GLUE LAMINATED	PBD	PARTICLEBOARD	THK	THICK
CND	CONDUIT	GND.	GROUND	PC	PORTLAND CEMENT	THRES.	THRESHOLD
CO	CLEANOUT	GPM	GALLONS PER MINUTE	PD	PLANTER DRAIN	THRU	THROUGH
COL	COLUMN	GR.	GRADE	PERF	PERFORATED	TKBD	TACKBOARD
COMM	COMMUNICATION	GYP.	GYPSUM	PERP	PERPENDICULAR	T.O.	TOP OF
COMP	COMPOSITION			PE	PAINT EGGSHELL	T.O.P.	TOP OF PARAPET
CONC	CONCRETE	H.B.	HOSE BIBB	PF	PAINT FLAT	TOT	TOTAL
CONF	CONFERENCE	HCN	HOLLOW CORE NATURAL FINISH	PG	PAINT GLOSS	T.P.	TOP OF PAVING
CONN	CONNECTION	HCP	HOLLOW CORE PAINT FINISH	P.H.	PANIC HARDWARE	TRNSF.	TRANSFORMER
CONT	CONTINUOUS	HDBD.	HARDBOARD	PIV	POST INDICATOR VALVE	TW	TOP OF WALL
CONTR	CONTRACTOR	HDR	HEADER	P.L.	PROPERTY LINE	TYP.	TYPICAL
COORD	COORDINATE	HDW.	HARDWARE	PL.	PLATE		
CORR	CORRIDOR	HDWD.	HARDWOOD	P.LAM.	PLASTIC LAMINATE	UGND	UNDERGROUND
COV	COVER	HGT.	HEIGHT	PLAS.	PLASTER	UNFIN.	UNFINISHED
CP	CONTROL PANEL	H.M.	HOLLOW METAL	PLAT.	PLATFORM	U.N.O.	UNLESS NOTED OTHERWISE
CR	CONDENSATE RETURN	HORIZ.	HORIZONTAL	PLBG	PLUMBING	U.O.S.	UNDERSIDE OF STRUCTURE
CSWK	CASEWORK	HP	HORSEPOWER	PLF	POUNDS PER LINEAR FOOT	UR.	URINAL
CT	CERAMIC TILE	HR.	HOUR	PLYWD.	PLYWOOD	UTIL	UTILITY
CTSK	COUNTERSUNK	HTG.	HEATING	PNL	PANEL		
CTV	CABLE TELEVISION	HTWR	HOT WATER RETURN	POS	POSITIVE	V	VOLT
CW	COLD WATER	HTWS	HOT WATER SUPPLY	PR.	PAIR	VAC	VACUUM
		HVAC	HEATING, VENTILATING, AIR CONDITIONING	PREFAB	PREFABRICATED	VAV	VARIABLE AIR VOLUME
DBL	DOUBLE			PREFIN	PREFINISHED	V.C.T.	VINYL COMPOSITION TILE
DEMO	DEMOLITION	HVY	HEAVY	PRELIM	PRELIMINARY	VERT.	VERTICAL
DEPT	DEPARTMENT	HW	HOT WATER	PROJ	PROJECT	VEST.	VESTIBULE
DET	DETAIL			PSF	POUNDS PER SQUARE FOOT	VFWC	VINYL FABRIC WALL COVERING
DF	DRINKING FOUNTAIN	I.D.	INSIDE DIAMETER	PSG	PAINT SEMI-GLOSS		
DG	DECOMPOSED GRANITE	I.E.	INVERT ELEVATION	PSI	POUNDS PER SQUARE INCH	W	WATT
DIA	DIAMETER	INSUL.	INSULATION	PVC	POLYVINYL CHLORIDE	W/	WITH
DIM	DIMENSION	INT.	INTERIOR			W.C.	WATER CLOSET
DISP.	DISPENSER	INV.	INVERT	Q.T.	QUARRY TILE	WD.	WOOD
DIST.	DISTANCE	IW	IRRIGATION WATER	QTY	QUANTITY	WDW.	WINDOW
DIV.	DIVISION					WHSE	WAREHOUSE
D.L.	DEAD LOAD	JAN.	JANITOR			WL	WIND LOAD
DN.	DOWN	JCT.	JUNCTION			WLD	WELDED
DS.	DOWN SPOUT	JT.	JOINT			WP	WORKING POINT
DWG.	DRAWING					WPG	WATERPROOFING
						WR	WATER RESISTANT
						WSCT.	WAINSCOT
						WT	WEIGHT
						W.W.F.	WELDED WIRE FABRIC
						XFMR	TRANSFORMER

DRAWING LIST

(TOTAL NO. OF DRAWINGS 48)

GENERAL (NO. OF DRAWINGS - 3)

* CIVIL DRAWINGS (NO. OF DRAWINGS - 2)

ARCHITECTURAL DRAWINGS (NO. OF DRAWINGS - 5)

* ELECTRICAL DRAWINGS (NO. OF DRAWINGS - 8)

* 24'X40' MODULAR CLASSROOM (NO. OF DRAWINGS - 22)

MODTECH PC# 04-101419 A# 04-104310

* TMP SERVICES (NO. OF DRAWINGS - 8)

A# 04-113584

GENERAL NOTES

ALL WORK TO CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISIONS OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT 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). INSPECTOR SHALL HAVE CLASS (4) CERTIFICATION MINIMUM.

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 IMPROVEMENT, ROAD AND ENVIRONMENT HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

PORTABLE NOTES

THE DESIGN PROFESSIONAL IN RESPONSIBLE CHANGE SHALL SUBMIT A LETTER CERTIFYING THAT THE EXISTING BUILDING CONFORMS THE ORIGINALLY APPROVED PLANS AND SPECIFICATIONS AND HAS NOT SUFFERED STRUCTURAL DETERIORATION OR BEEN STRUCTURALLY ALTERED PER DSA IR 16-1.

THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE UNIT(S):
a. IN-PLANT VERIFIED REPORT
b. LABORATORY VERIFIED REPORT
c. WELDING VERIFIED REPORT

THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS AND SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR T INSTALLATION OF THE UNIT(S).

NOTIFY ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.

IN-PLANT INSPECTOR AND MANUFACTURER SHALL FOLLOW THE REQUIREMENTS OF DSA IR16-1.13 AND INCLUDE THE FOLLOWING FORMATION ON ID TAG OF SHOP FABRICATED RE-LOCATABLE STRUCTURES:
1. THE DSA APPLICATION NUMBER AND CBC EDITION UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED;
2. THE MANUFACTURER OR BUILDER'S NAME;
3. THE SERIAL NUMBER;
4. THE DESIGN CLIMATE ZONES;
5. THE DESIGN LIVE LOADS FOR THE ROOF AND FLOOR;
6. THE DESIGN WIND SPEED AND EXPOSURE CATAGORY;
7. THE SEISMIC DESIGN PARAMETER Sa.

a. EXISTING ELECTRICAL SERVICE HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS. OR
b. SOURCE OF POWER HAS BEEN INVESTIGATED AND IS ADEQUATE FOR THE ADDITIONAL LOAD.
c. SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS.

DETERIORATION OR EXISTING NON COMPLAINT CONSTRUCTION - IF ANY CONDITIONS IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENT. A CONSTRUCTION CHANGE ORDER (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPESIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

CODE ANALYSIS

OCCUPANCY GROUP: E (K-8)
CONSTRUCTION TYPE: TYPE V-B, NON-SPRINKLERED

ALLOWABLE HEIGHT PER TABLE 504.3
ALLOWABLE NUMBER OF STORIES PER TABLE 504.4

	ALLOWABLE	ACTUAL
NUMBER OF STORIES	1	1
BUILDING HEIGHT	40'-0"	10'-0"

ALLOWABLE AREA PER TABLE 506.2

ALLOWABLE BUILDING AREA	
BASIC ALLOWABLE AREA A(t)	9,500 S.F.
FRONTAGE INCREASE:	NOT USED
SPRINKLER INCREASE:	NOT USED
TOTAL ALLOWABLE AREA A(a)	9,500 S.F.
ACTUAL BUILDING AREA	6,240 S.F.

PROJECT DIRECTORY

OWNER
GLENDALE UNIFIED SCHOOL DISTRICT
223 N. JACKSON STREET, 3RD FLOOR
GLENDALE, CA 91206
PHONE NO. - (818) 241-3111

ARCHITECT
tBP/ARCHITECTURE
4611 TELLER AVENUE
NEWPORT BEACH, CA 92660
PHONE NO. - (949) 673-0300

CIVIL ENGINEER
FPL&ASSOCIATES, INC.
10 CORPORATE PARK
IRVINE, CA 92606
PHONE: (949) 252-1688

ELECTRICAL ENGINEER
FBA ENGINEERING
3420 IRVINE AVENUE
NEWPORT BEACH, CA 92660
PHONE NO. - (949) 852-9995

SUMMARY OF WORK

PROJECT CONSISTS OF THE PLACEMENT OF (2) 24' x 40' PORTABLE CLASSROOM BUILDINGS.

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2017:

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R.
(2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2016 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R.
(2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2016 CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 C.C.R.

2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R.
(2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R.
(2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 8 C.C.R., DIVISION 1, CHAPTERS 4 AND 6, ELEVATOR SAFETY ORDERS (INCLUDING ASME A17.1-2001, SAFETY CODE FOR ELEVATORS AND ESCALATORS)

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS

2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEM (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVE	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED)	2015 EDITION

Statement of General Conformance

(Application No. 03-118937 File No. 19-41)

☒ The drawings or sheets listed on the cover or index sheet [marked by asterisk (*)]
☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

This Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 (b))

I find that:
☒ All drawings or sheets listed on the cover or index sheet
☐ This drawing or page

☒ is/are in general conformance with the project design, and
☒ has/have been coordinated with the project plans and specifications.

☐ is/are in general conformance with the project design intent, and
☐ has/have been coordinated with the project plans and specifications.

Signature	4/3/2018 Date	Signature	Date
Architect or Engineer designated to be in general responsible charge		Architect or Engineer delegated responsibility for this portion of the work	
HUNG L. CHENG			
Print Name		Print Name	
C 34187	4-30-19		
License Number	Expiration Date	License Number	Expiration Date

EXISTING MODULAR BUILDING INFORMATION

CLASSROOM #	SIZE	MANUFACTURER	SERIAL NO.	PC NUMBER	STOCKPILE DSA NO.
1	24' x 40'	MODTECH	57369/70	04-101419	04-104310
2	24' x 40'	MODTECH	57361/62	04-101419	04-104310

CODE ANALYSIS LEGEND

960 SF | 20
48

AREA
OCCUPANT LOAD FACTOR
OCCUPANT LOAD SYMBOL
NUMBER OF OCCUPANTS
72 NUMBER OF OCCUPANTS EXITING
ASSUMED LOT LINE

WIND DESIGN DATA

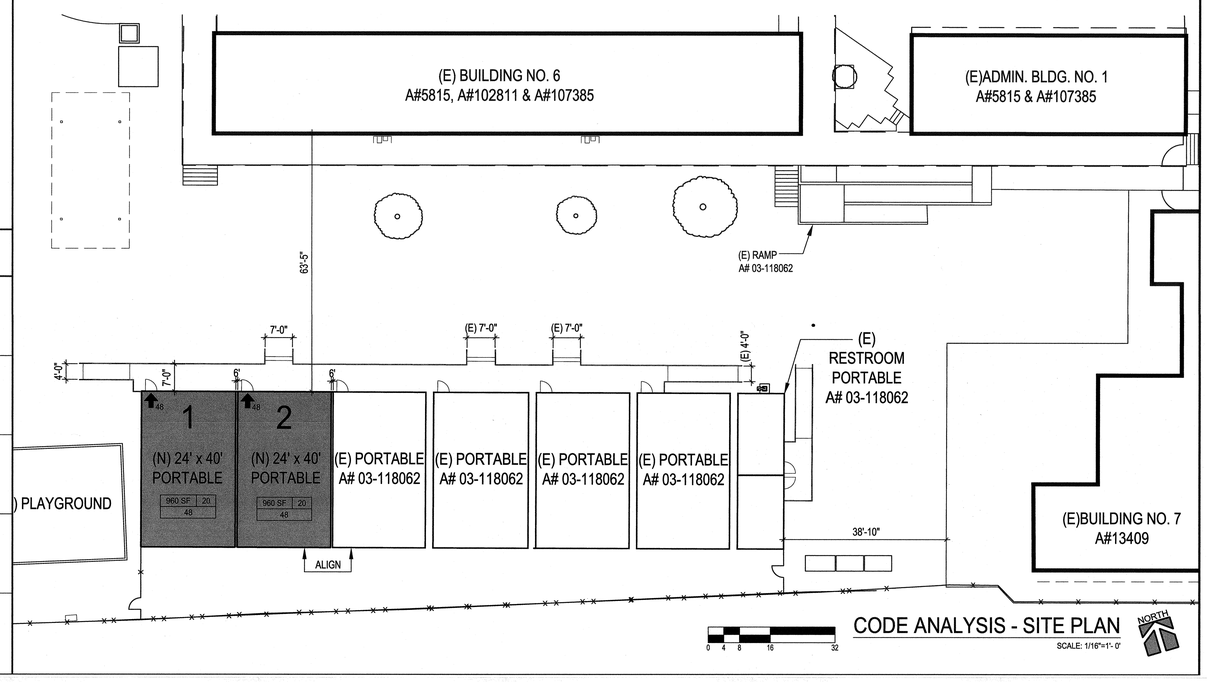
2016 CBC 1603.1.4
1. ULTIMATE DESIGN WIND SPEED V =115
2. RISK CATEGORY III
3. WIND EXPOSURE CATEGORY C
4. INTERNAL PRESSURE COEFFICIENT +0.18
5. ENCLOSURE CLASSIFICATION ENCLOSED BLDG (PORTABLE/RELOCATABLE)

EARTHQUAKE DESIGN DATA

2016 CBC 1603.1.5
SITE COORDINATES: 34.240°N, 118.257°W
1. RISK CATEGORY: III
2. SEISMIC IMPORTANCE FACTOR: 1.25
3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
   Ss = 2.078g S1= 0.736g
4. SITE CLASS: D
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
   SDS= 1.798g SD1= 0.936g

GEOTECHNICAL INFORMATION

1. ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF



CODE ANALYSIS - SITE PLAN

SCALE: 1/16"=1'- 0"

REFERENCE SYMBOLS

FULL BUILDING SECTION
A / A-4 — LETTER ABOVE - SECTION; NUMBER BELOW - SHEET NUMBER

PARTIAL BUILDING SECTION / WALL SECTION
B / A-4 — LETTER ABOVE - SECTION; NUMBER BELOW - SHEET NUMBER

EXTERIOR ELEVATION
1 / A-3 — NUMBER ABOVE - ELEVATION NUMBER; NUMBER BELOW - SHEET NUMBER

DETAIL
2 / 3.01 — NUMBER ABOVE - DETAIL NUMBER; NUMBER BELOW - SHEET NUMBER

MATERIAL SYMBOLS

EARTH
SAND & GROUT
CONCRETE
MASONRY
STEEL
PLYWOOD
FINISH WOOD
LATH & PLASTER
GYPSUM BOARD
BATT INSULATION
RIGID INSULATION
ACOUSTICAL CEILING PANEL/ TILE

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

consultant

FILE NO.:
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DEPARTMENT OF GENERAL SERVICES
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DATE APR 03 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
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DUNSMORE ELEMENTARY SCHOOL RELOCATABLE CLASSROOMS

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

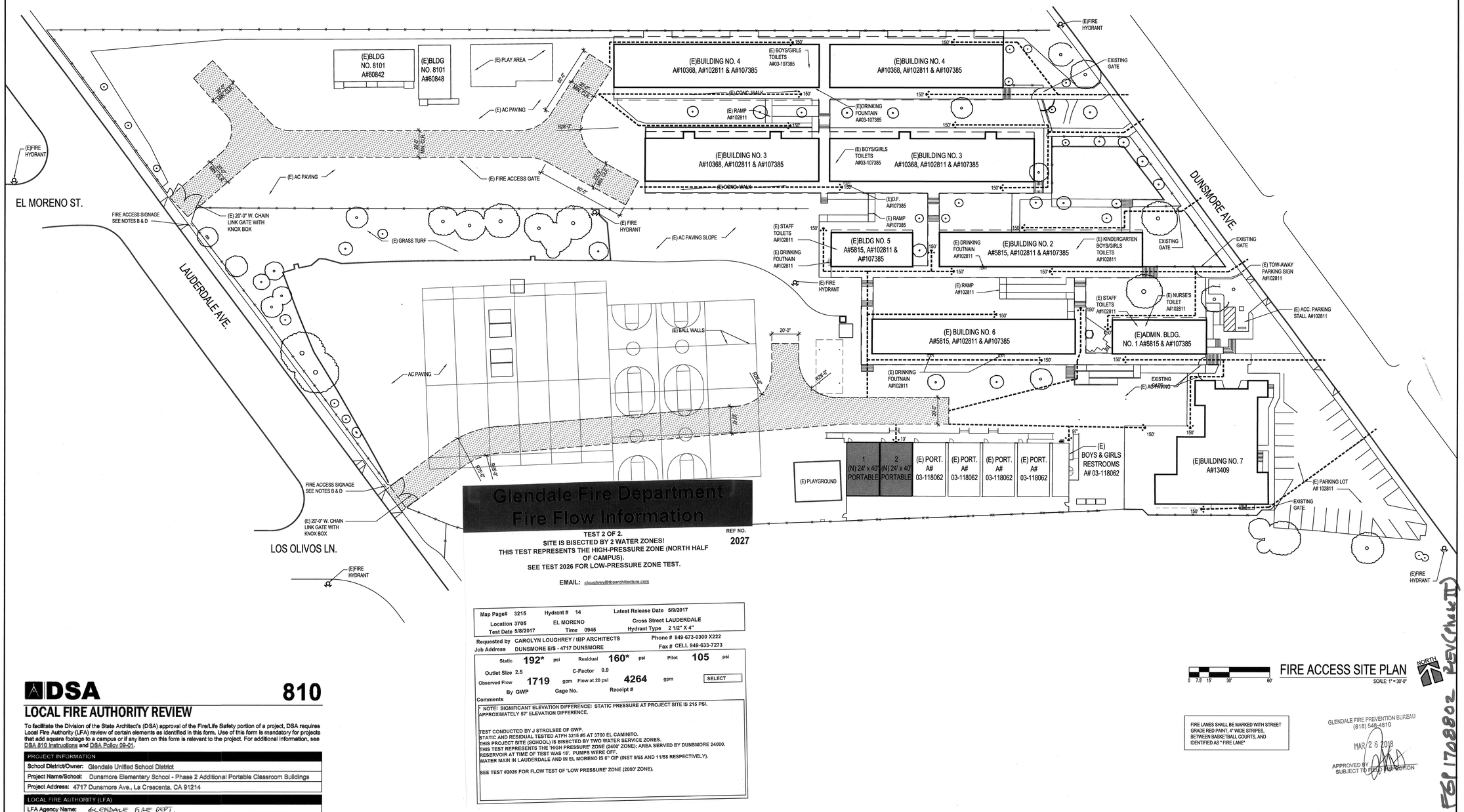
owner

tBP project number : 20967.00
file name:
drawn by: checked by:
date: May 10, 2017

Rev:	date:	description:

drawing title:
INDEX SHEET

drawing no.:
T-2
drawing of



Glendale Fire Department Fire Flow Information

REF NO. 2027

TEST 2 OF 2.
SITE IS BISECTED BY 2 WATER ZONES!
THIS TEST REPRESENTS THE HIGH-PRESSURE ZONE (NORTH HALF OF CAMPUS).
SEE TEST 2026 FOR LOW-PRESSURE ZONE TEST.

EMAIL: cloughrey@tbparchitecture.com

Map Page# 3215 Hydrant # 14 Latest Release Date 5/9/2017
Location 3705 EL MORENO Cross Street LAUDERDALE
Test Date 5/8/2017 Time 0945 Hydrant Type 2 1/2" X 4"
Requested by CAROLYN LOUGHREY / tBP ARCHITECTS Phone # 949-673-0300 X222
Job Address DUNSMORE E/S - 4717 DUNSMORE Fax # CELL 949-633-7273

Static 192* psi Residual 160* psi Pitot 105 psi
Outlet Size 2.5 C-Factor 0.9
Observed Flow 1719 gpm Flow at 20 psi 4264 gpm SELECT
By GWP Gage No. Receipt #

Comments
* NOTE! SIGNIFICANT ELEVATION DIFFERENCE! STATIC PRESSURE AT PROJECT SITE IS 215 PSI.
APPROXIMATELY 57' ELEVATION DIFFERENCE.

TEST CONDUCTED BY J STROLSEE OF GWP.
STATIC AND RESIDUAL TESTED ATFH 3215 #5 AT 3700 EL CAMINITO.
THIS PROJECT SITE (SCHOOL) IS BISECTED BY TWO WATER SERVICE ZONES.
THIS TEST REPRESENTS THE 'HIGH PRESSURE' ZONE (2400' ZONE); AREA SERVED BY DUNSMORE 24000.
RESERVOIR AT TIME OF TEST WAS 18'. PUMPS WERE OFF.
WATER MAIN IN LAUDERDALE AND IN EL MORENO IS 6" CIP (INST 9/55 AND 11/58 RESPECTIVELY).

SEE TEST #2026 FOR FLOW TEST OF 'LOW PRESSURE' ZONE (2000' ZONE).

FSI 170802 Rev(Mult)

FIRE ACCESS SITE PLAN

SCALE: 1" = 30'-0"

FIRE LANES SHALL BE MARKED WITH STREET GRADE RED PAINT, 4" WIDE STRIPES, BETWEEN BASKETBALL COURTS, AND IDENTIFIED AS " FIRE LANE"

GLENDALE FIRE PREVENTION BUREAU (818) 548-4810
MAR 2 6 2018
APPROVED BY
SUBJECT TO FIELD INSPECTION

DSA 810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: Glendale Unified School District
Project Name/School: Dunsmore Elementary School - Phase 2 Additional Portable Classroom Buildings
Project Address: 4717 Dunsmore Ave., La Crescenta, CA 91214

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: GLENDALE FIRE DEPT.
LFA Reviewer Name: JEFF UNPERT Title: FPE II
Work Email: JUNPERT@GLENDALECA.GOV Work Telephone Number: 818 737 8125

I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.
LFA Reviewer's Signature: Date: 3/28/18

Review Key: "Y" = Complies with LFA requirements "N" = Not approved (complete Section 8)
"NA" = Not applicable to the project "NR" = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.			X	
	Signature of School District Official: _____ Date: _____ Print the School District Official's Name:				
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.	X			
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) ☐ Yes ☒ No Check type if "Yes": ☐ Moderate ☐ High ☐ Very High ☐ WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies):				

DSA 810 (rev 01-24-18) DEPARTMENT OF GENERAL SERVICES Page 1 of 1
DIVISION OF THE STATE ARCHITECT STATE OF CALIFORNIA

BUILDING DESCRIPTION

TOTAL BUILDING AREAS: 6,240 SF
BUILDING HEIGHT: 10'-0" HIGH
BUILDING USE: E OCCUPANCY
CONSTRUCTION TYPE: TYPE V-B, NON-SPRINKLERED

FIRE FLOW ANALYSIS

2016 CALIFORNIA FIRE CODE TABLE B105.1 - MIN. REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS

FIRE AREA TYPE V-B	FIRE FLOW (GPM)	FLOW DURATION (HOURS)		
6,240 S.F.	2,250	2		

SITE PLAN LEGEND

EXISTING FIRE DEPARTMENT VEHICULAR ACCESS LANE 20'-0" MINIMUM UNOBSTRUCTED WIDTH

FIREFIGHTER ACCESS WALKWAY 5'-0" MINIMUM CLEAR WIDTH

(E) FH EXISTING FIRE HYDRANT

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2017:

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2016 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2012 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

2016 CALIFORNIA ENERGY CODE (C.E.C.), PART 6, TITLE 24 C.C.R.

2016 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2012 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2012 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.

2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

TITLE 8 C.C.R., DIVISION 1, CHAPTERS 4 AND 6, ELEVATOR SAFETY ORDERS (INCLUDING ASME A17.1-2004, SAFETY CODE FOR ELEVATORS AND ESCALATORS)

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

FIRE DEPARTMENT NOTES

A. DOUBLE CHECK DETECTOR - OBTAIN APPROVAL FROM THE CITY OF GLENDALE WATER AND POWER DEPARTMENT FOR ANY PROPOSED DOUBLE CHECK DETECTORS (BACKFLOW PREVENTERS) WITHIN 60 DAYS. THE PROPOSED DOC MODEL MUST BE APPROVED BY THE G.W.P.

B. FIRE DEPARTMENT ACCESS SIGNAGE MAP:
PLANS SHOWING THE FIRE DEPARTMENT ACCESS SIGNAGE MAP DETAILS SHALL BE SUBMITTED TO THE GLENDALE FIRE DEPT. FOR APPROVAL WITHIN 60 DAYS. THE SIGNAGE SHALL BE WEATHER RESISTANT AND OF AN APPROVED SIZE, AND SHALL SHOW THE FOLLOWING INFORMATION:
1. BUILDINGS AND BUILDING IDENTIFICATION
2. FIRE ACCESS ROAD(S)
3. APPROVED ACCESS WALKWAYS LEADING FROM FIRE APPARATUS ACCESS ROADS TO EXTERIOR OPENINGS
4. FIRE HYDRANTS
5. KNOX BOXES
6. FENCES AND GATES (VEHICLE AND PERSON GATES
7. FIRE DEPARTMENT CONNECTION
8. DOUBLE DETECTOR CHECK
9. OTHER INFORMATION PERTINENT TO FIRE DEPARTMENT ACCESS

C. SIGNAGE DURING AND AFTER CONSTRUCTION: THE FIRE DEPARTMENT ACCESS SIGNAGE SHALL BE INSTALLED PRIOR TO THE NEW BUILDING CONSTRUCTION COMMENCING TO FACILITATE FIRE DEPARTMENT ACCESS DURING CONSTRUCTION. THIS SIGNAGE SHALL ALSO REMAIN IN PLACE UPON COMPLETION OF CONSTRUCTION AND SHALL BE UPDATED AS NEEDED TO FACILITATE FIRE DEPARTMENT ACCESS.

D. ACCESS DURING CONSTRUCTION: FIRE APPARATUS ACCESS ROADS AND WATER SUPPLY FOR FIRE PROTECTION SHALL BE INSTALLED AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION EXCEPT WHEN APPROVED ALTERNATIVE METHODS OF PROTECTION ARE PROVIDED. (SEE CFC SECTION 501.4)

E. KNOX BOX : THE MOUNTING HEIGHT FOR THE KNOX BOX SHALL NOT EXCEED 6'-0" ABOVE THE GROUND LEVEL / FINISHED FLOOR. PROVIDE (3) SETS OF KEYS (WITH PERMANENT ENGRAVED IDENTIFICATION) FOR ALL EXTERIOR DOORS, GATES AND FIRE ALARM PANEL AND OTHERS AS DIRECTED BY THE FIRE INSPECTOR. KNOX BOXES SHALL BE PURCHASED PRIOR TO THE BEGINNING OF CONSTRUCTION, AND INSTALLED IN APPROVED LOCATION FOR THE DURATION OF THE CONSTRUCTION.

F. ADDRESS NUMBERS: APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION SHALL BE PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET, ROAD, ALLEY AND WALKWAYS GIVING ACCESS TO AND WITHIN THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS. NUMBERS SHALL BE A MIN. OF 4-INCHES (102 MM) HIGH W/ MIN. STROKE WIDTH 0.5 INCH (12.7 MM) AND SHALL BE ILLUMINATED IN AN APPROVED MANNER (IF NOS. ARE ON THE EXTERIOR). NUMBER HEIGHT AND STROKE WIDTH SHALL BE INCREASED AS NEEDED FOR LEGIBILITY BASED ON VISIBILITY DISTANCE.

G. KEY BOX MAINTENANCE . THE OPERATOR OF THE BUILDING SHALL IMMEDIATELY NOTIFY THE FIRE CODE OFFICIAL AND PROVIDE THE NEW KEY WHEN A LOCK IS CHANGED OR REKEYED. THE KEY TO SUCH LOCK SHALL BE SECURED IN THE KEY BOX. (SEE CFC SECTION 506.2)

CONSTRUCTION OF GATES SHALL BE OF MATERIALS THAT ALLOW MANUAL OPERATION BY ONE PERSON. (SEE CFC APPENDIX D, D103.5 CRITERIA 3)

CONSTRUCTION OF FIRE LINE REPLACEMENT BETWEEN LAS CRESCENTA AVENUE AND FIRE HYDRANT NO. 1 IS TO BE COMPLETED PRIOR TO THE OCCUPANCY AND USAGE OF THE INTERIM HOUSING PROJECT.

FIRE DEPARTMENT VEHICULAR ACCESS ROADS MUST BE INSTALLED AND MAINTAINED IN A SERVICEABLE MANNER PRIOR TO AND DURING THE TIME OF CONSTRUCTION. (FIRE CODE 501.4)

FIRE DEPARTMENT VEHICULAR ACCESS ROADS SHALL BE HARD SCAPE ALL WEATHER ACCESS IN ACCORDANCE WITH THE DEPARTMENT'S ALL WEATHER ACCESS REQUIREMENTS. (LOS ANGELES COUNTY FIRE CODE 503.2.3)

ALL FIRE HYDRANTS SHALL MEASURE 6" x 4" x 2 1/2", BRASS OR BRONZE, CONFORMING TO AMERICAN WATER WORKS ASSOCIATION STANDARD C503, OR APPROVED EQUAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH THE COUNTY OF LOS ANGELES FIRE DEPARTMENT REGULATION 8. (FIRE CODE 507.5 AND REGULATION 8)

REQUIRED INSPECTIONS

A. UNDERGROUND FLUSH / ROUGH / HYDRO OF PIPE FROM CITY MAIN TO BACKFLOW PREVENTER - CALL GLENDALE WATER AND POWER TO SCHEDULE AND OBTAIN INSPECTION OF FLUSH PRIOR TO COVERING PIPE.

B. GLENDALE FIRE PREVENTION FINAL INSPECTION (PRIOR TO OCCUPANCY) - TO VERIFY INSTALLATION OF ADEQUATE FIRE DEPARTMENT ACCESS AND SIGNAGE, AS INDICATED ON THIS PLAN, CONTACT THE GLENDALE FIRE DEPARTMENT AT (818)548-4810 TO SCHEDULE A SITE VISIT AND INSPECTION PRIOR TO OCCUPANCY.

SCOPE OF WORK

PROJECT CONSISTS OF THE PLACEMENT OF (2) 24' x 40' PORTABLE CLASSROOM BUILDINGS.

tBP architecture planning interiors
tBP/Architecture
4611 Teller Avenue
Newport Beach, CA 92660
ph: 949.673.0300 fx: 949.732.3895
architect

consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A 03 - 118937
AC. FLS SS
DATE APR 0 3 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

DUNSMORE ELEMENTARY SCHOOL RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018

Rev:	date:	description:

drawing title:
FIRE ACCESS SITE PLAN

drawing no.:
T-3
drawing of

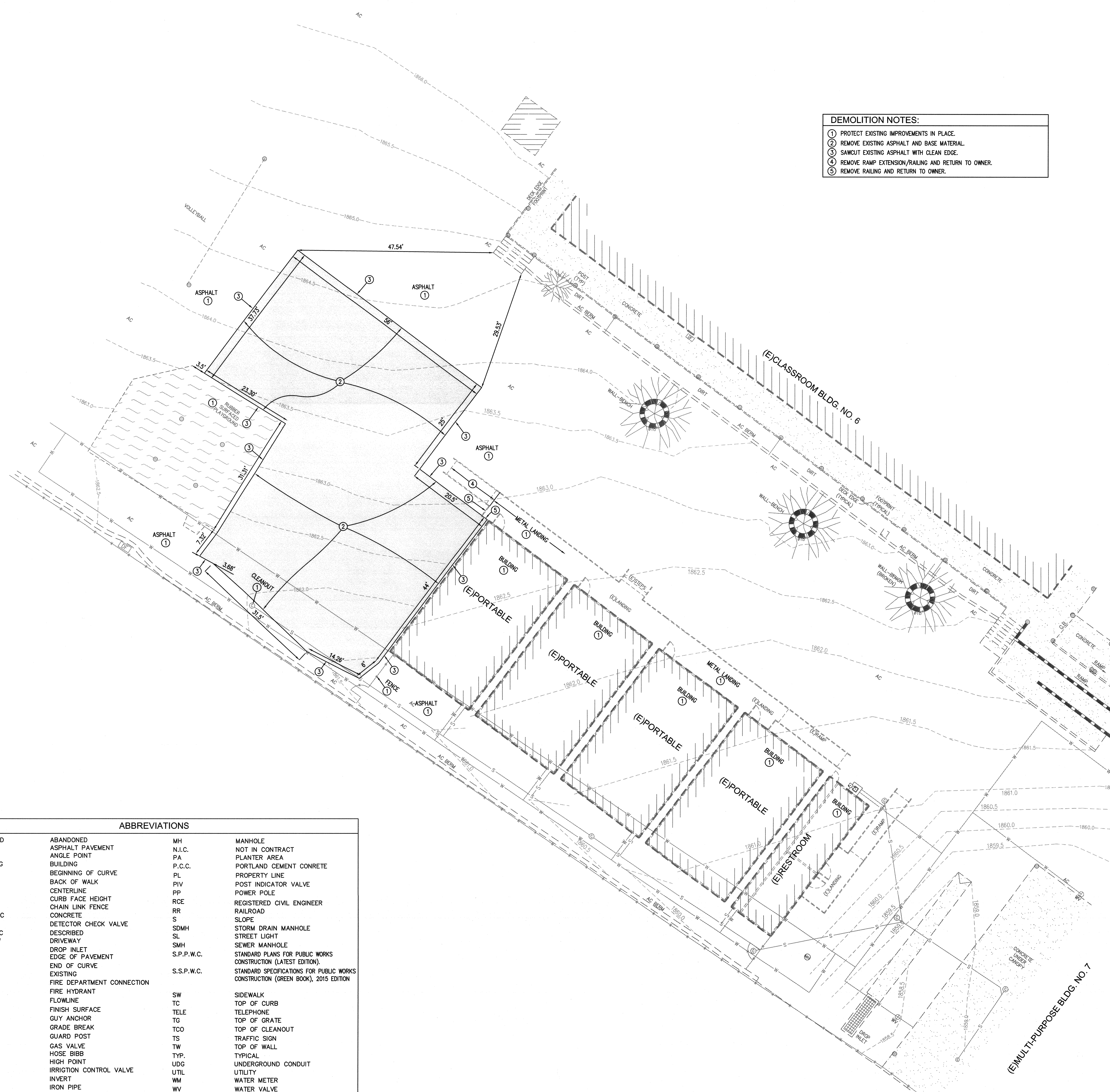
DEMOLITION NOTES

1. ALL ITEMS, SHOWN ON THIS PLAN TO BE REMOVED, SHALL BE VERIFIED BY THE GLENDALE UNIFIED SCHOOL DISTRICT PRIOR TO DEMOLITION. THE CONTRACTOR SHALL MEET WITH THE SCHOOLS REPRESENTATIVE PRIOR TO CLEARING AND GRUBBING.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC,. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK. ALL ITEMS TO BE REMOVED SHALL BE MARKED BY THE CONTRACTOR PRIOR TO DEMOLITION.
4. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES WHICH ARE TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
5. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAIN, SANITARY SEWERS AND STREETS.
6. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
7. CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
8. CONTRACTOR IS RESPONSIBLE TO KEEP ALL UTILITES OPERATIONAL THAT SERVES FACILITIES OUTSIDE THE SCOPE OF THE DEMOLITION ZONE. CONTRACTOR IS ALSO RESPONSIBLE TO REROUTE UTILITIES IF NECESSARY TO COMPLETE DEMOLITION.
9. CONTRACTOR SHALL INSTALL A MINIMUM 6' HIGH CONSTRUCTION FENCE AROUND PERIMETER OF DEMOLITION AREA WITH WIND SCREEN.
10. ALL EXISTING DRAINAGE STRUCTURES ON SITE SHALL BE PROTECTED AND REMAIN FUNCTIONAL DURING DEMOLITION AND THROUGH THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE STRUCTURES, OR DAMAGE CAUSED TO ADJACENT PROPERTIES DUE TO THE OBSTRUCTION OF THESE STRUCTURES.
11. THE PROVISIONS OF CALIFORNIA FIRE CODE CHAPTER 14 AND CALIFORNIA BUILDING CODE CHAPTER 37 SHALL BE ENFORCED ON THIS PROJECT.

NOTE: CONTRACTOR IS REQUIRED TO RESTORE ALL EXISTING IMPROVEMENTS TO THE SAME CONDITION, THAT ARE NOT PART OF THIS PROJECT, THAT EXISTED PRIOR TO HIS STARTING CONSTRUCTION.

DEMOLITION NOTES:

(1) PROTECT EXISTING IMPROVEMENTS IN PLACE.
(2) REMOVE EXISTING ASPHALT AND BASE MATERIAL.
(3) SAWCUT EXISTING ASPHALT WITH CLEAN EDGE.
(4) REMOVE RAMP EXTENSION/RAILING AND RETURN TO OWNER.
(5) REMOVE RAILING AND RETURN TO OWNER.



10 5 0 10 20 30

SCALE: 1" = 10'

ABBREVIATIONS

ABND	ABANDONED	MH	MANHOLE
AC	ASPHALT PAVEMENT	N.I.C.	NOT IN CONTRACT
AP	ANGLE POINT	PA	PLANTER AREA
BLDG	BUILDING	P.C.C.	PORTLAND CEMENT CONRETE
BC	BEGINNING OF CURVE	PL	PROPERTY LINE
BW	BACK OF WALK	PIV	POST INDICATOR VALVE
CL	CENTERLINE	PP	POWER POLE
CF	CURB FACE HEIGHT	RCE	REGISTERED CIVIL ENGINEER
CLF	CHAIN LINK FENCE	RR	RAILROAD
CONC	CONCRETE	S	SLOPE
DCV	DETECTOR CHECK VALVE	SDMH	STORM DRAIN MANHOLE
DESC	DESCRIBED	SL	STREET LIGHT
D/W	DRIVEWAY	SMH	SEWER MANHOLE
DI	DROP INLET	S.P.P.W.C.	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
EP	EDGE OF PAVEMENT		
EC	END OF CURVE	S.S.P.W.C.	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), 2015 EDITION
EX	EXISTING		
FDC	FIRE DEPARTMENT CONNECTION		
FH	FIRE HYDRANT	SW	SIDEWALK
FL	FLOWLINE	TC	TOP OF CURB
FS	FINISH SURFACE	TELE	TELEPHONE
GA	GUY ANCHOR	TG	TOP OF GRATE
GB	GRADE BREAK	TCO	TOP OF CLEANOUT
GP	GUARD POST	TS	TRAFFIC SIGN
GV	GAS VALVE	TW	TOP OF WALL
HB	HOSE BIBB	TYP.	TYPICAL
HP	HIGH POINT	UDG	UNDERGROUND CONDUIT
ICV	IRRIGTION CONTROL VALVE	UTIL	UTILITY
INV	INVERT	WM	WATER METER
IP	IRON PIPE	WV	WATER VALVE
L	LENGTH	W VLT	WATER VAULT
LIP	LIP OF GUTTER	VIF	VERIFY IN FIELD
LP	LIGHT POLE	VLT	VAULT
L T & T	LEAD TACK AND TAG		

LEGEND

(S)	SEWER MANHOLE	■	OVERHANG POST	---(12.5)--	(E)CONTOUR ELEVATION
(D)	STORM DRAIN MANHOLE		SIGN POST	13.45	PROPOSED ELEVATION
(T)	TELEPHONE MANHOLE		MAIL BOX	PL	PROPERTY LINE
	FIRE HYDRANT		CHAIN LINK FENCE	CL	CENTERLINE
(C)	SEWER CLEANOUT		WIRE FENCE	(ICV)	IRRIGATION VALVE
	WATER VALVE		WALL	T	TRASH ENCLOSURE
	GAS VALVE		TREE		DRAINAGE INLET
	WATER METER		FLOW DIRECTION	CF	CURB FACE
	GAS METER	FS	FINISHED SURFACE	INV	INVERT
W	WATER VAULT	FF	FINISHED FLOOR		
G	GAS VAULT	——W——W——	(E)DOMESTIC WATER		
T	TELEPHONE VAULT	——S——S——	(E)SEWER		
E	ELECTRIC VAULT		= EXISTING BUILDING		
	WELL		= REMOVE EXISTING ASPHALT (2)		
EPB	ELECTRIC PULLBOX		= EXISTING CONCRETE		
)---	GUY WIRE				
	LIGHT				

tBP
architecture
planning
interiors

LICENSED ARCHITECT · STATE OF CALIFORNIA · HUNG L. CHENG · NO. C34187 · REN. 4-30-19

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architect

PLANS PREPARED BY:

FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
PHONE: 949-252-1688

REGISTERED PROFESSIONAL ENGINEER · ALAN WING-CHI LEE · No. C 34971 · Exp. 09-30-19 · CIVIL · STATE OF CALIFORNIA

ALAN WING-CHI LEE R.C.E. 34971 EXP. 09-30-19

consultant

FILE NO.: 19-41

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

A#03-118937

AC ___ FLS ___ SS ___

DATE APR 0 3 2018

DEPARTMENT OF GENERAL SERVICES

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700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
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DUNSMORE ELEMENTARY SCHOOL RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20967.02

file name:

drawn by: checked by:

date: APRIL 3, 2018

Rev:	date:	description:

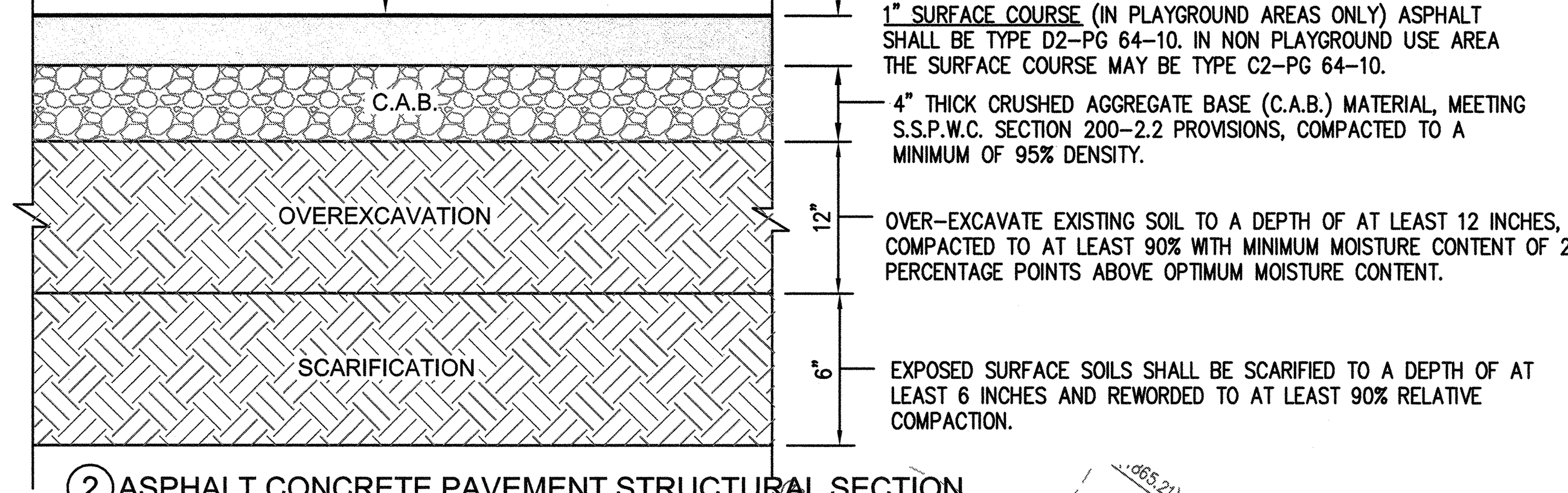
drawing title:

DEMOLITION PLAN

drawing no.:

C1.1

drawing of



(2) ASPHALT CONCRETE PAVEMENT STRUCTURAL SECTION

FLOOD ZONE INFORMATION

Per Flood Insurance Rate Map Number 06037C1335F, dated September 26, 2008, the flood zone for this area is "ZONE X". ZONE X is an area determined to be outside the 0.2% annual chance floodplain.

HORIZONTAL CONTROL

AN AUTOCAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

BENCHMARK:

LOS ANGELES COUNTY BENCHMARK "9Y11240"
ELEVATION 1836.498 FEET (NAVD88) QUAD YEAR 2005

"DPW BM TAG IN N CB 3.3 W/O BCR @ NW COR PENNSYLVANIA AVE & ORANGE AVE"

NOTE: CONTRACTOR SHALL RESTORE ALL AREAS ON THE SITE DAMAGED DURING THE COURSE OF WORK TO MATCH EXISTING.

NOTE: STRAIGHT GRADES SHALL BE CONSTRUCTED BETWEEN SPOT ELEVATIONS OR CONTOURS INDICATED, EXCEPT WHERE GRADE BREAKS INTERVENE.

EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.

DOMESTIC WATER GENERAL NOTES:

1. LOCATION OF EXISTING UTILITIES SHOWN, HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE TRUE LOCATION OF ANY EXISTING UTILITIES AND TO EXERCISE PROPER PRECAUTION TO AVOID INJURY OR DAMAGE THERETO.
2. STERILIZATION AND TESTING THE NEW INSTALLATION SHALL BE COMPLETED PRIOR TO MAKING FINAL CONNECTION TO THE SCHOOLS SYSTEM. THE CONTRACTOR SHALL SEE THAT ALL VALVES IN THE SYSTEM REMAIN OPEN AFTER THE TEST.
3. NEW ON-SITE WATER LINES, RUNNING PARALLEL WITH EXISTING OR NEW SEWER LINES, SHALL BE PLACED A MINIMUM OF 1 FOOT HORIZONTALLY & 1 FOOT HIGHER THAN SEWER.

SANITARY SEWER GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY CROSSINGS AND POINTS OF CONNECTION TO THE EXISTING SEWER SYSTEM PRIOR TO CONSTRUCTION OF THE SEWER LINES.
2. ALL SEWER MAINS, CLEANOUT, AND HOUSE CONNECTION LATERALS SHALL BE STAKED BY A LICENSED SURVEYOR IF SLOPE OF GRADE IS LESS THAN 2%, AND A COMPLETE SET OF CUT SHEETS SHALL BE SUPPLIED TO THE INSPECTOR.
3. NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE INSPECTOR.
4. IN ORDER TO PREVENT ACCIDENTAL USE OF THE NEW SEWER PRIOR TO COMPLETION AND ACCEPTANCE OF THE WORK, THE OUTLET OR INLET TO EXISTING TIE-IN CLEANOUT(S) SHALL BE SEALED WITH BROKEN BRICK AND MORTAR. INSTALLATION OF THESE PLUGS SHALL BE APPROVED BY THE INSPECTOR. PLUGS SHALL BE REMOVED ONLY AT THE DIRECTION OF INSPECTOR.
5. NEW SEWER LINES SHALL NOT BE CONNECTED TO THE EXISTING SEWER SYSTEM UNTIL THE NEW LINES HAVE BEEN TESTED PER SECTION 712.0 OF THE 2016 CALIFORNIA PLUMBING CODE. THE LINES SHALL BE TESTED AND CLEANED TO THE INSPECTORS APPROVAL BEFORE THEY ARE CONNECTED TO THE EXISTING SITE SEWER LINES.

GENERAL NOTES FOR GRADING

1. ALL WORK SHALL CONFORM WITH THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), 2015 EDITION AND THE LATEST REVISIONS THERETO, THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H. MANUAL), A.D.A, TITLE 24 REQUIREMENTS, AND 2016 C.B.C. UNLESS SPECIFIED OTHERWISE IN THE CONTRACT SPECIFICATIONS.
2. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE CONSTRUCTION MANAGER OR FIELD INSPECTOR THROUGHOUT THE CONSTRUCTION OPERATION AND SHALL INCORPORATE IN BASE BID.
3. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES THAT OCCUR DURING CONSTRUCTION PRACTICES AND SUBMIT THIS RECORD TO THE SCHOOL DISTRICT CERTIFIED AS "RECORD DRAWING" PLANS.
4. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY BROKEN OR DAMAGED SIDEWALK, CURB, GUTTER OR ASPHALT PAVING AND TURF (PATCH, REPAIR OR OVERLAY) CAUSED BY THEIR WORK ON THIS PROJECT AT THE DIRECTION OF THE OWNER.
5. ALL UNDERGROUND SEWER, STORM DRAIN, AND WATER PIPELINES, ELECTRIC POWER, TELEPHONE OR CABLE TV CONDUITS AND CABLE AND GAS PIPELINES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, GUTTERS, SIDEWALKS AND PAVEMENT.
6. AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING EXCAVATION, THE CONTRACTOR SHALL POTHOLE AND EXPOSE THE EXISTING UTILITIES AT ALL CROSSINGS AND AT THE POINT OF TIE-IN; THEN CONTACT THE ENGINEER TO VERIFY THE ELEVATION OF THE EXISTING FACILITIES.
7. ALL UNSUITABLE MATERIAL SHALL BE REMOVED, AS DIRECTED BY THE SOILS ENGINEER, FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.
8. ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER AFTER REMOVAL OF UNSUITABLE MATERIAL AND EXCAVATION OF KEYWAYS AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR ANY FILLS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STORM DAMAGE PREVENTION MEASURES OR EROSION CONTROL DEVICES AND/OR TO PERFORM CERTAIN GRADING TO PREVENT SOIL OR EXCESS RUNOFF FROM FLOWING INTO PUBLIC STREETS OR ADJACENT PROPERTIES. IN THE EVENT OF SUCH AN OCCURRENCE, CLEANUP SHALL COMMENCE IMMEDIATELY. SHOULD CITY FORCES OR THE CITY CONTRACTOR PERFORM ANY CLEANUP RESULTING FROM THIS DEVELOPMENT, THE CONTRACTOR SHALL PAY THE COST INCURRED WITHIN TEN (10) WORKING DAYS UPON RECEIPT OF BILLING.
10. EITHER WATER OR DUST PALLIATIVE, OR BOTH, MUST BE APPLIED FOR THE ALLEVIATION OR PREVENTION OF EXCESSIVE DUST RESULTING FROM THE LOADING OR TRANSPORTATION OF EARTH FROM OR TO THE PROJECT SITE OR PRIVATE AND PUBLIC ROADWAYS.
11. MAXIMUM SLOPES FOR BOTH CUT AND FILL SHALL BE 2:1.
12. ALL EQUIPMENT USED TO HAUL EXCAVATION OR FILL MATERIAL FROM OR TO THE SITE SHALL FOLLOW A DESIGNATED ROUTE OR ROUTES IN GOING TO AND FROM THE SITE. THE CONTRACTOR SHALL BE ENTITLED TO THE DESIGNATION OF A ROUTE PROVIDING ACCESS TO A SPECIFIED PLACE OTHER THAN THE SITE, AFTER SHOWING TO THE SATISFACTION OF THE CITY BUILDING OFFICIAL THAT SUCH SPECIFIED PLACE IS A PLACE WHERE EXCAVATION MATERIAL MAY BE REASONABLY DEPOSITED OR FILL MATERIAL MAY BE OBTAINED. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED WHEN IT IS NECESSARY TO FLAG TRAFFIC OR INSTALL ANY TRAFFIC CONTROL DEVICES ON CITY RIGHT-OF-WAY.
13. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
14. ALL TRUCKS HAULING DIRT, SAND, OIL, OR OTHER LOOSE MATERIALS ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD IN ACCORDANCE WITH THE REQUIREMENTS OF CVC SECTION 23114.
15. ADJUST UTILITY BOXES TO BE FLUSH WITH ULTIMATE FINISH SURFACE IN PAVING SCOPE OF WORK AREAS.
16. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE ALL CATCH BASINS, STORM DRAIN PIPE, SAW-CUT LINES, BUILDING PADS, FINISH FLOORS, SWALES AND GRADE BREAKS. TWO STAKES SHALL BE PROVIDED FOR ALL CATCH BASINS.

GRADING CONSTRUCTION NOTES:

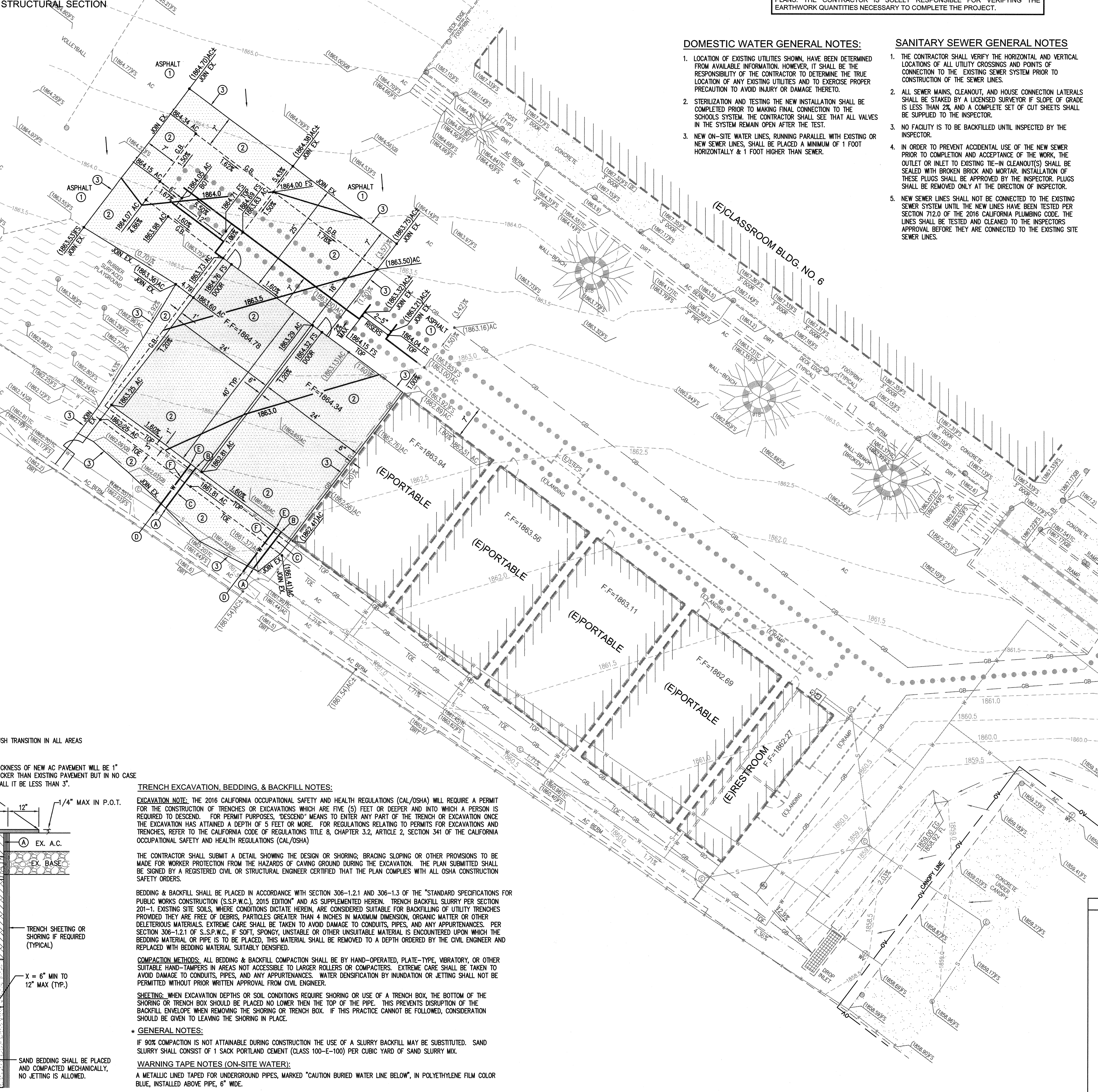
(1) PROTECT EXISTING IMPROVEMENTS IN PLACE.
(2) CONSTRUCT ASPHALT PAVEMENT PER DETAIL 2 HEREON.
(3) COAT SIDE OF EXISTING ASPHALT WITH TACK COAT MEETING S.S.P.W.C. SECTION 302-5.4.

SANITARY SEWER CONSTRUCTION NOTES:

(A) CONNECT TO EXISTING SEWER LINE WITH APPROPRIATE FITTINGS.
(B) TRANSITION ABOVE GRADE SANITARY WASTE INTO BUILDING AT APPROXIMATE LOCATION.
(C) CONSTRUCT 2" ABS SCHEDULE 40 PIPE PER TRENCHING DETAIL HEREON.

WATER CONSTRUCTION NOTES:

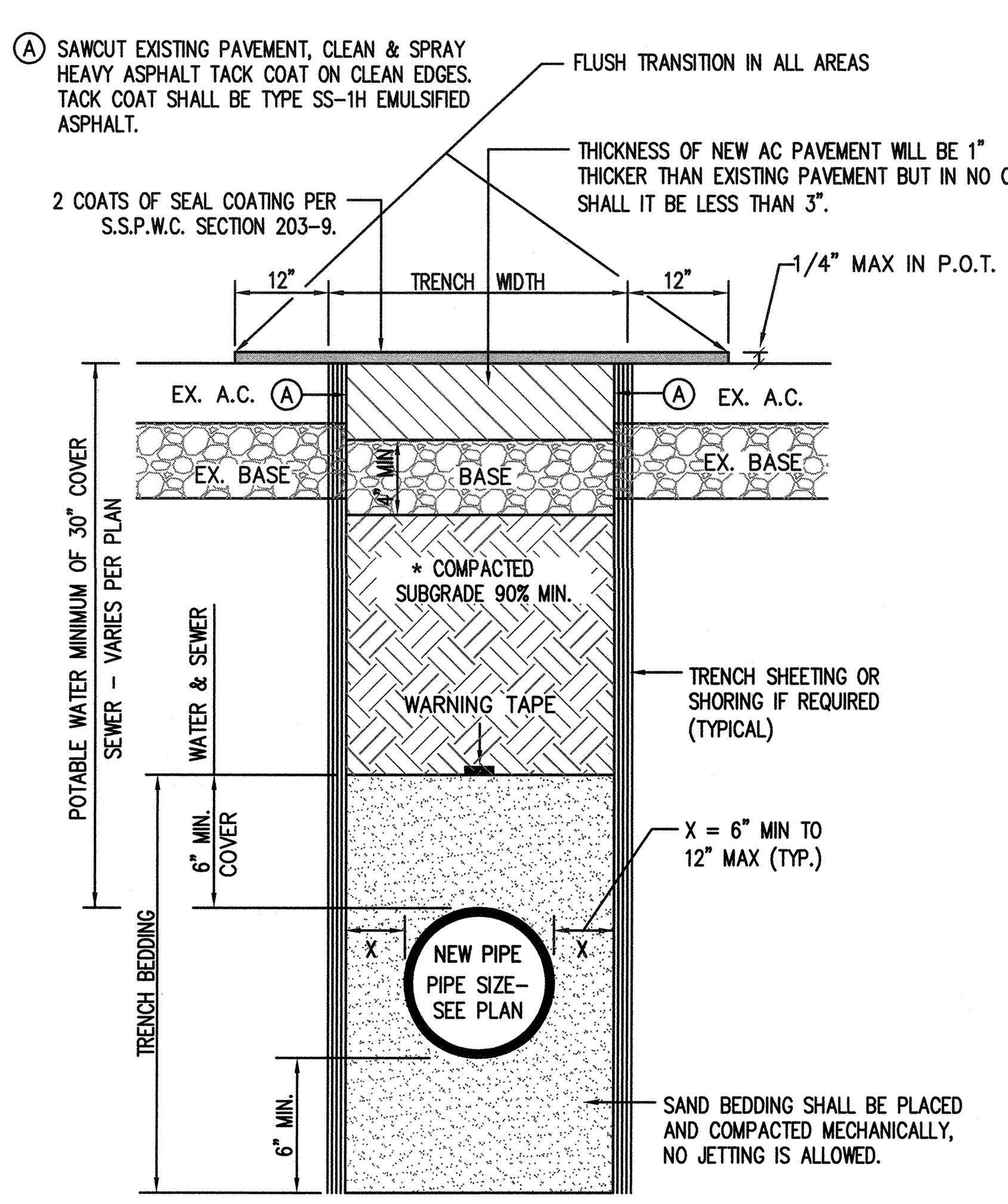
(D) CONNECT NEW 1/2" WATER TO EXISTING 4" WATER WITH SERVICE SADDLE (FORD 202BS OR APPROVED EQUAL). INSTALL 1/2" CORPORATION STOP (COMPRESSION TYPE), BALL TYPE, CS THREAD.
(E) TRANSITION ABOVE GRADE COLD WATER TO COPPER WATER TUBE, TYPE L HARD, MEETING ASTM B88. PIPE FITTINGS TO BE WROUGHT COPPER, SOLDER TYPE PER ANSI B 16.22. CONNECT TO BUILDING WATER AT APPROXIMATE LOCATION SHOWN.
(F) CONSTRUCT 1/2" TYPE K COPPER PIPE AND FITTINGS PER TRENCHING DETAIL HEREON.



SCALE: 1" = 10'

LEGEND

SEWER MANHOLE	OVERHANG POST	---(1860)--- (E)CONTOUR ELEVATION
STORM DRAIN MANHOLE	SIGN POST	1860.00 PROPOSED ELEVATION
TELEPHONE MANHOLE	MAIL BOX	IRRIGATION VALVE
FIRE HYDRANT	CHAIN LINK FENCE	DRAINAGE INLET
SEWER CLEANOUT	WIRE FENCE	CF CURB FACE
WATER VALVE	WALL	INV INVERT
GAS VALVE	TREE	AC ASPHALT CONCRETE
WATER METER	FLOW DIRECTION	1860.00 FS = PROPOSED ELEVATION AT BUILDING / RAMP
GAS METER	FS FINISHED SURFACE	1860.00 AC = PROPOSED ELEVATION AT ASPHALT CONCRETE
WATER VAULT	FF FINISHED FLOOR	
GAS VAULT	= EXISTING BUILDING	
TELEPHONE VAULT	= NEW BUILDING	
ELECTRIC VAULT	= NEW ASPHALT CONCRETE PAVING (2)	
WELL	= EXISTING CONCRETE PAVING	
ELECTRIC PULLBOX	(E)DOMESTIC WATER	
GUY WIRE	(E)SEWER	
LIGHT	GRADE BREAK	
	PATH OF TRAVEL	



EXISTING ASPHALT AREAS

N.T.S.

TRENCH EXCAVATION, BEDDING, & BACKFILL NOTES:

EXCAVATION NOTE: THE 2016 CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA) WILL REQUIRE A PERMIT FOR THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE (5) FEET OR DEEPER AND INTO WHICH A PERSON IS REQUIRED TO DESCEND. FOR PERMIT PURPOSES, "DESCEND" MEANS TO ENTER ANY PART OF THE TRENCH OR EXCAVATION ONCE THE EXCAVATION HAS ATTAINED A DEPTH OF 5 FEET OR MORE. FOR REGULATIONS RELATING TO PERMITS FOR EXCAVATIONS AND TRENCHES, REFER TO THE CALIFORNIA CODE OF REGULATIONS TITLE 8, CHAPTER 3.2, ARTICLE 2, SECTION 341 OF THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA)

THE CONTRACTOR SHALL SUBMIT A DETAIL SHOWING THE DESIGN OR SHORING; BRACING SLOPING OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FROM THE HAZARDS OF CAVING GROUND DURING THE EXCAVATION. THE PLAN SUBMITTED SHALL BE SIGNED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER CERTIFIED THAT THE PLAN COMPLIES WITH ALL OSHA CONSTRUCTION SAFETY ORDERS.

BEDDING & BACKFILL SHALL BE PLACED IN ACCORDANCE WITH SECTION 306-1.2.1 AND 306-1.3 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (S.S.P.W.C.), 2015 EDITION" AND AS SUPPLEMENTED HEREIN. TRENCH BACKFILL SLURRY PER SECTION 201-1. EXISTING SITE SOILS, WHERE CONDITIONS DICTATE HEREIN, ARE CONSIDERED SUITABLE FOR BACKFILLING OF UTILITY TRENCHES PROVIDED THEY ARE FREE OF DEBRIS, PARTICLES GREATER THAN 4 INCHES IN MAXIMUM DIMENSION, ORGANIC MATTER OR OTHER DELETERIOUS MATERIALS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. PER SECTION 306-1.2.1 OF S..S.P.W.C., IF SOFT, SPONGY, UNSTABLE OR OTHER UNSUITABLE MATERIAL IS ENCOUNTERED UPON WHICH THE BEDDING MATERIAL OR PIPE IS TO BE PLACED, THIS MATERIAL SHALL BE REMOVED TO A DEPTH ORDERED BY THE CIVIL ENGINEER AND REPLACED WITH BEDDING MATERIAL SUITABLY DENSIFIED.

COMPACTION METHODS: ALL BEDDING & BACKFILL COMPACTION SHALL BE BY HAND-OPERATED, PLATE-TYPE, VIBRATORY, OR OTHER SUITABLE HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTERS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. WATER DENSIFICATION BY INUNDATION OR JETTING SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM CIVIL ENGINEER.

SHEETING: WHEN EXCAVATION DEPTHS OR SOIL CONDITIONS REQUIRE SHORING OR USE OF A TRENCH BOX, THE BOTTOM OF THE SHORING OR TRENCH BOX SHOULD BE PLACED NO LOWER THEN THE TOP OF THE PIPE. THIS PREVENTS DISRUPTION OF THE BACKFILL ENVELOPE WHEN REMOVING THE SHORING OR TRENCH BOX. IF THIS PRACTICE CANNOT BE FOLLOWED, CONSIDERATION SHOULD BE GIVEN TO LEAVING THE SHORING IN PLACE.

* GENERAL NOTES:

IF 90% COMPACTION IS NOT ATTAINABLE DURING CONSTRUCTION THE USE OF A SLURRY BACKFILL MAY BE SUBSTITUTED. SAND SLURRY SHALL CONSIST OF 1 SACK PORTLAND CEMENT (CLASS 100-E-100) PER CUBIC YARD OF SAND SLURRY MIX.

WARNING TAPE NOTES (ON-SITE WATER):

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION BURIED WATER LINE BELOW", IN POLYETHYLENE FILM COLOR BLUE, INSTALLED ABOVE PIPE, 6" WIDE.

WARNING TAPE NOTES (ON-SITE SEWER):

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION BURIED SEWER LINE BELOW", IN POLYETHYLENE FILM COLOR GREEN, INSTALLED ABOVE PIPE, 6" WIDE.

TRENCHING DETAILS FOR SEWER & WATER LINES

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DUNSMORE ELEMENTARY SCHOOL RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
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LA CRESCENTA, CA 91214

owner

tBP project number : 20967.02
file name:
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date: APRIL 3, 2018
Rev: date: description:

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GRADING & UTILITY PLAN

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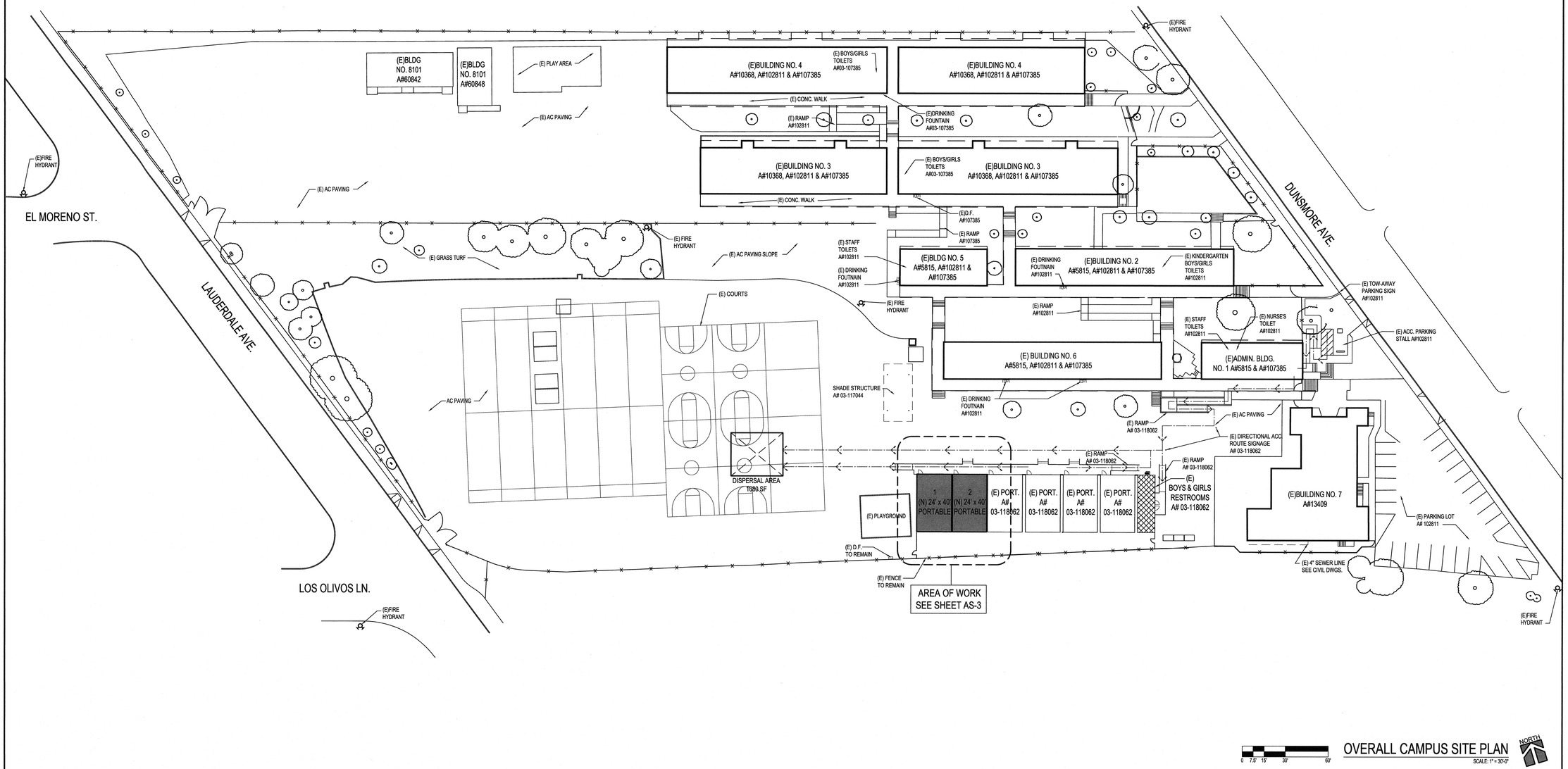
C1.2
drawing of



OVERALL CAMPUS SITE PLAN

SCALE: 1" = 30'-0"

TEST & INSPECTION REQUIREMENTS (TITLE 24 PART 2 2016 CBC)

CHAPTER 22A STEEL
MATERIALS
- STRUCTURAL STEEL - PER 2205A.1
- COLD FORMED STEEL - PER 2210A.1

QUALITY
- TEST OF STRUCTURAL & COLD FORMED STEEL - PER 2211A.1

INSPECTION
- SHOP FABRICATED - PER 1704A2.5, 1705A.2

CHAPTER 20
WELDING - PER 1705A2.2.1

GENERAL NOTES

1. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWING DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

FLOOD DESIGN INFORMATION

THE FLOOD ZONE DESIGNATION	ZONE X
THE FLOOD INSURANCE RATE MAP (FIRM) PANEL DESIGNATION	06037C1335F
EFFECTIVE DATE OF THE FIRM	09-26-2008
BASE FLOOD ELEVATION (BFE)	N/A
APPLICABLE COMMUNITY ORDINANCE SECTION	N/A

PARKING TABULATION

PARKING LOT : 26 PARKING STALLS
1 ACCESSIBLE PARKING STALL

SITE PLAN LEGEND

PATH OF TRAVEL

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

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVEL (P.O.T.) AS VERIFIED BY ARCHITECT IS :
- A COMMON BARRIER FREE ACCESSIBLE ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGED 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.
- CROSS-SLOPE DOES NOT EXCEED 2%.
- SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED AS A RAMP.
- MAINTAIN POT FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, PROTRUDING OBJECTS GREATER THAN 4". PROJECTION FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE.

SHADED AREA INDICATES AREA OF NEW WORK

(E) ACCESSIBLE RESTROOMS - A# 03-118062

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GLENDALE UNIFIED SCHOOL DISTRICT
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LA CRESCENTA, CA 91214

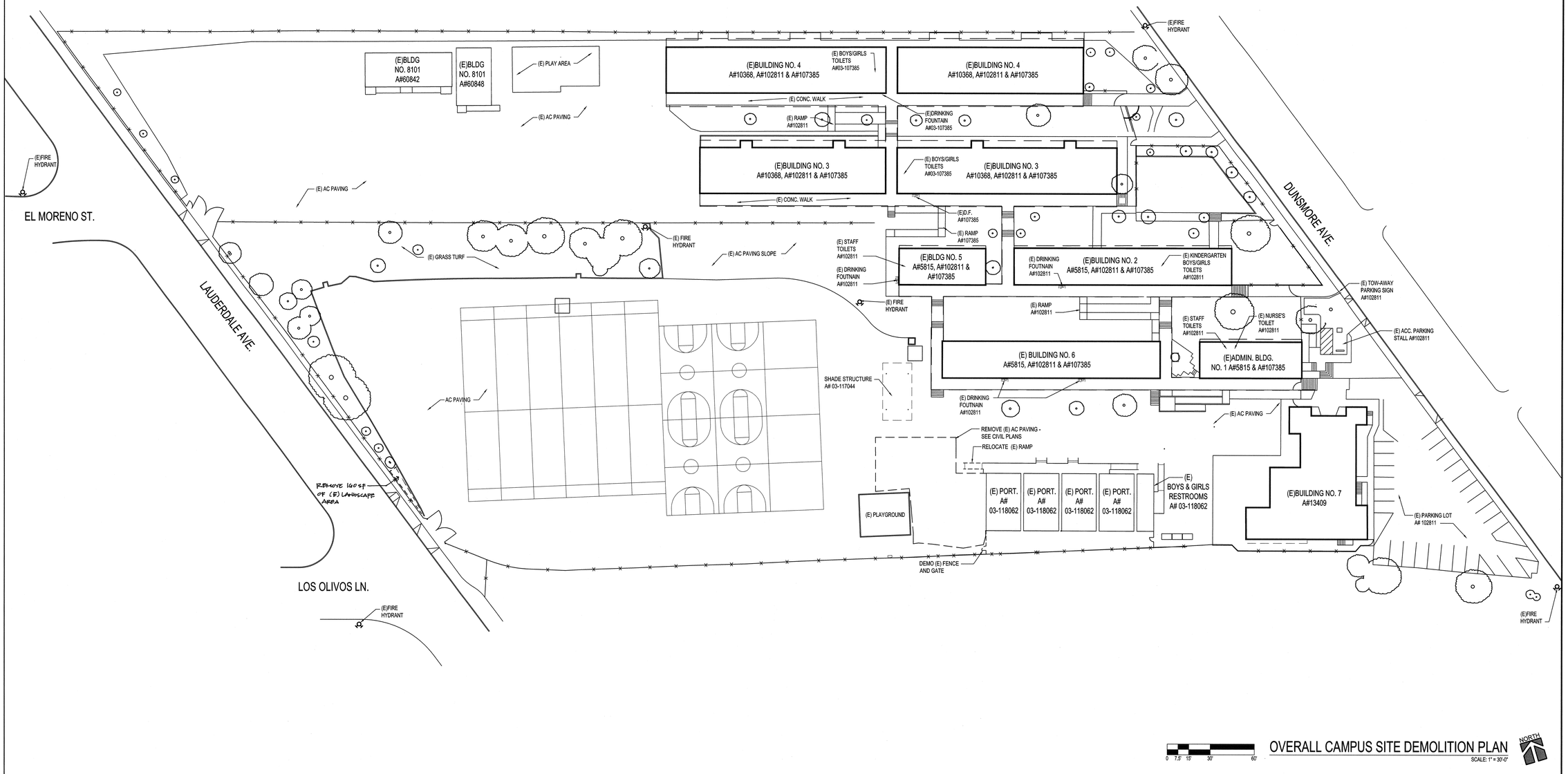
owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018

Rev:	date:	description:

drawing title:
OVERALL CAMPUS SITE PLAN

drawing no.:
AS-1
drawing of



OVERALL CAMPUS SITE DEMOLITION PLAN

SCALE: 1" = 30'-0"

GENERAL NOTES

1. WHERE DEMOLITION OR REMOVAL WORK OCCURS, TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ELEMENTS TO REMAIN. FINISHED WORK DAMAGED BY OPERATIONS UNDER DEMOLITION CONTRACT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF OWNER AND ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
2. DISPOSITION OF MATERIALS: PROMPTLY REMOVE FROM THE SITE ALL MATERIALS RESULTING FROM DEMOLITION WHICH ARE NOT TO BE REUSED.
3. COORDINATE REMOVAL OF ALL ELECTRICAL FIXTURES, CONDUIT, AND JUNCTION BOXES WITH ELECTRICAL CONTRACTOR.
4. REFER TO CIVIL AND UTILITY PLANS FOR ADDITIONAL DEMOLITION WORK AND COORDINATION FOR TERMINATION POINTS OF UTILITIES.
5. ALL DEMOLITION SHALL COMPLY WITH CH. 34 OF THE CBC AND ARTICLE 87 CFC.
7. WHERE AN EXISTING REQUIRED FIRE PROTECTION SYSTEM WILL BE TEMPORARILY OUT OF SERVICE DUE TO CONSTRUCTION ACTIVITIES, COMPLY WITH CFC SECTIONS 1408 AND 901.
8. DURING THE OVER-EXCAVATION PROCCESS THE CONTRACTOR MAY ENCOUNTER COBBLE EXCESS OF 6", CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL SOIL, ORGANICS, AND COBBLE MATERIAL.

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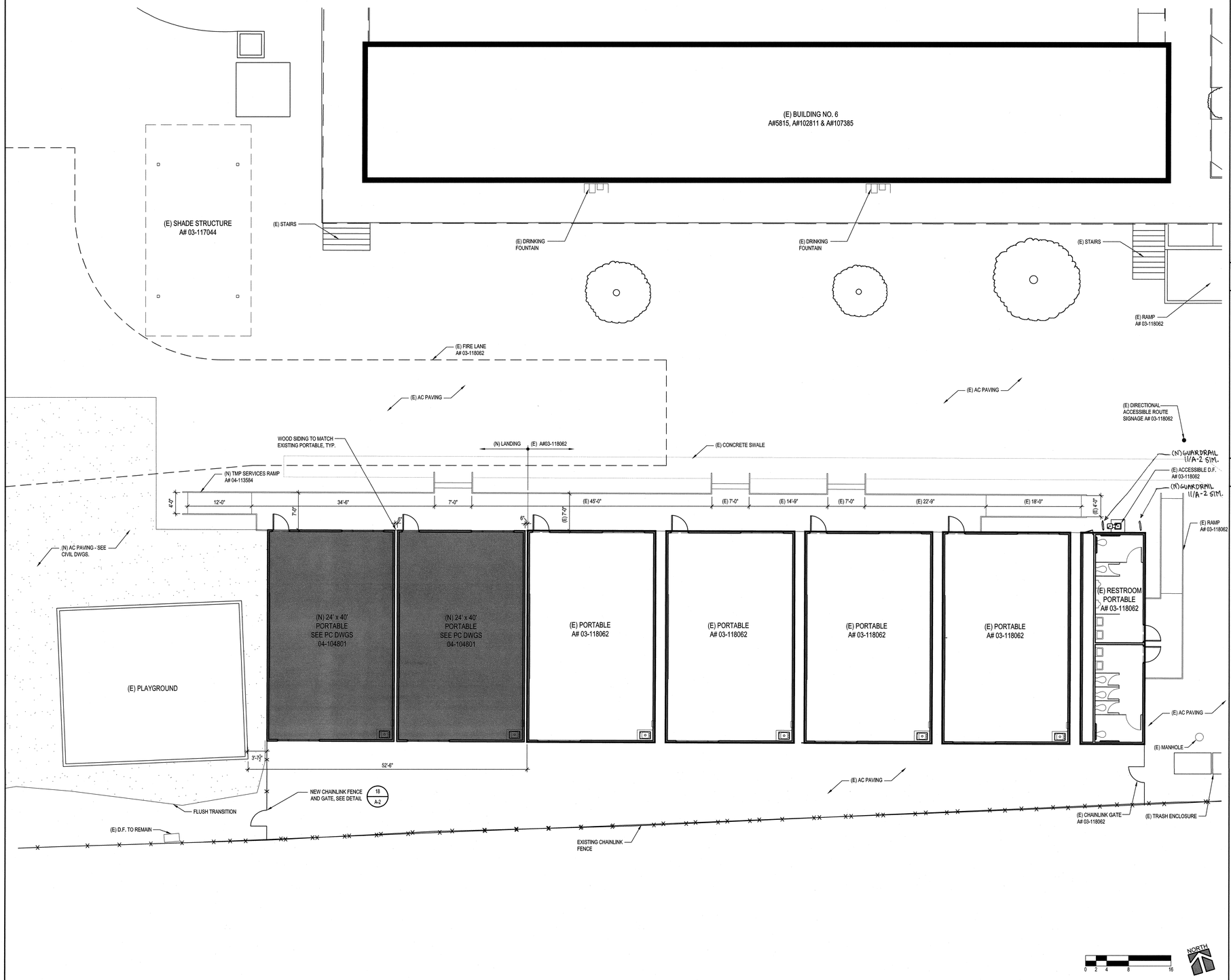

ENLARGED SITE PLAN

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

1

GENERAL NOTES

1. DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION:
   IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
2. VERIFY ALL EXISTING AND FINISH GRADES, DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
3. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
4. SEE T-2 FOR EXISTING MODULAR BUILDING INFORMATION
5. SEE CIVIL DRAWING FOR ADDITIONAL GRADING INFORMATION
6. DURING THE OVER-EXCAVATION PROCCESS THE CONTRACTOR MAY ENCOUNTER COBBLE EXCESS OF 6". CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY AND ALL SOIL, ORGANICS, AND COBBLE MATERIAL.

PORTABLE EXTERIOR NOTES

1. PATCH AND REPAIR OR REPLACE ANY DAMAGED WOOD SIDING OR METAL TRIM AS REQUIRED.
2. PAINT BODY OF PORTABLE DUNN EDWARDS DUSTY TAUPE AND THE DOORS AND TRIM DUNN EDWARDS HORIZON BLUE.

EXIT WIDTH CALCULATION

NEW PORTABLES & EXISTING PORTABLES
(6) CLASSROOMS - 294 OCCUPANTS x 0.2 = 58.8" (4'-10") REQUIRED AND 94.8" EXIT WIDTH PROVIDED (2'4"+2')

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AS-3
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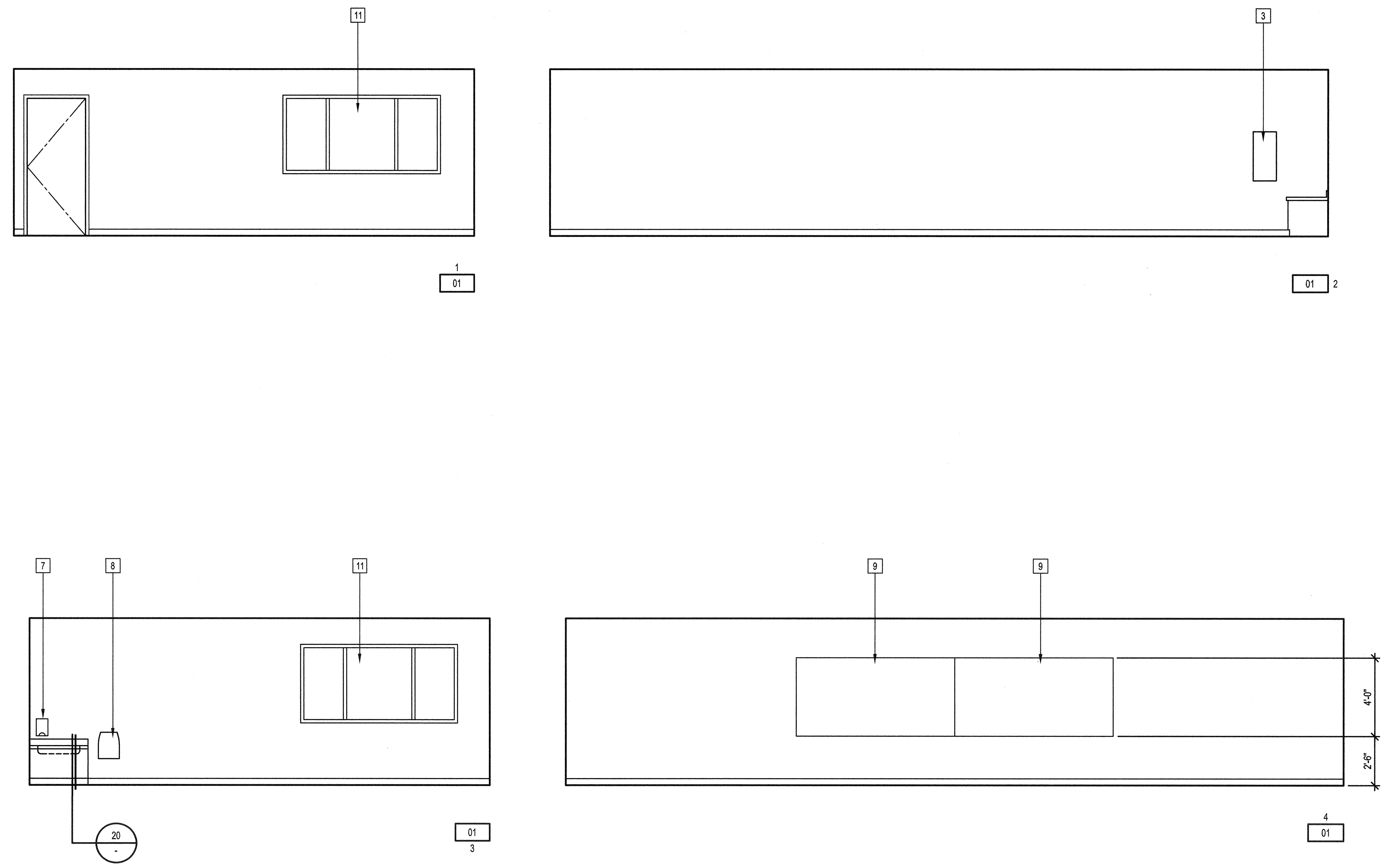
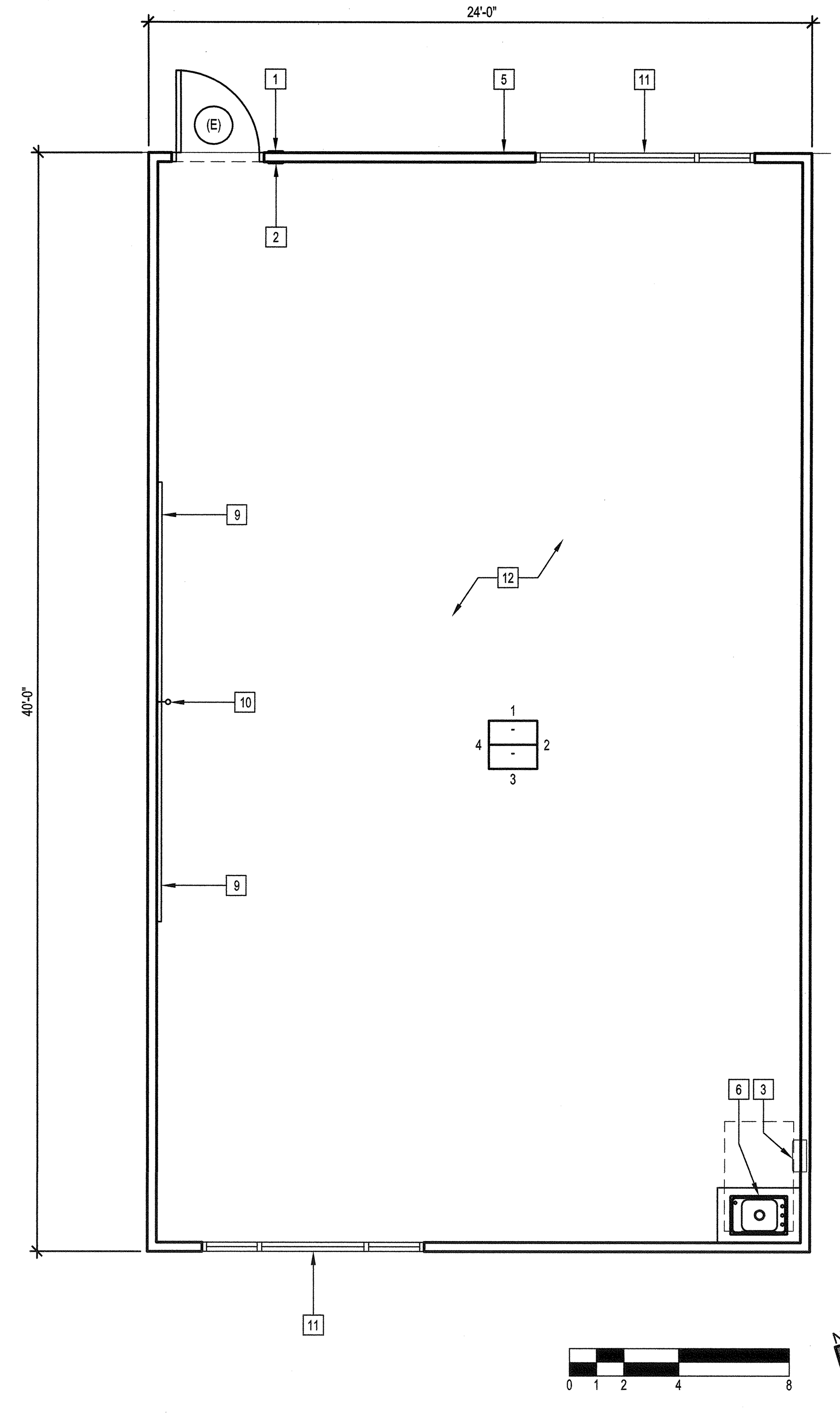


PORTABLE INTERIOR ELEVATION

SCALE: 1/4"=1'-0" 2



PORTABLE FLOOR PLAN

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

KEYNOTES

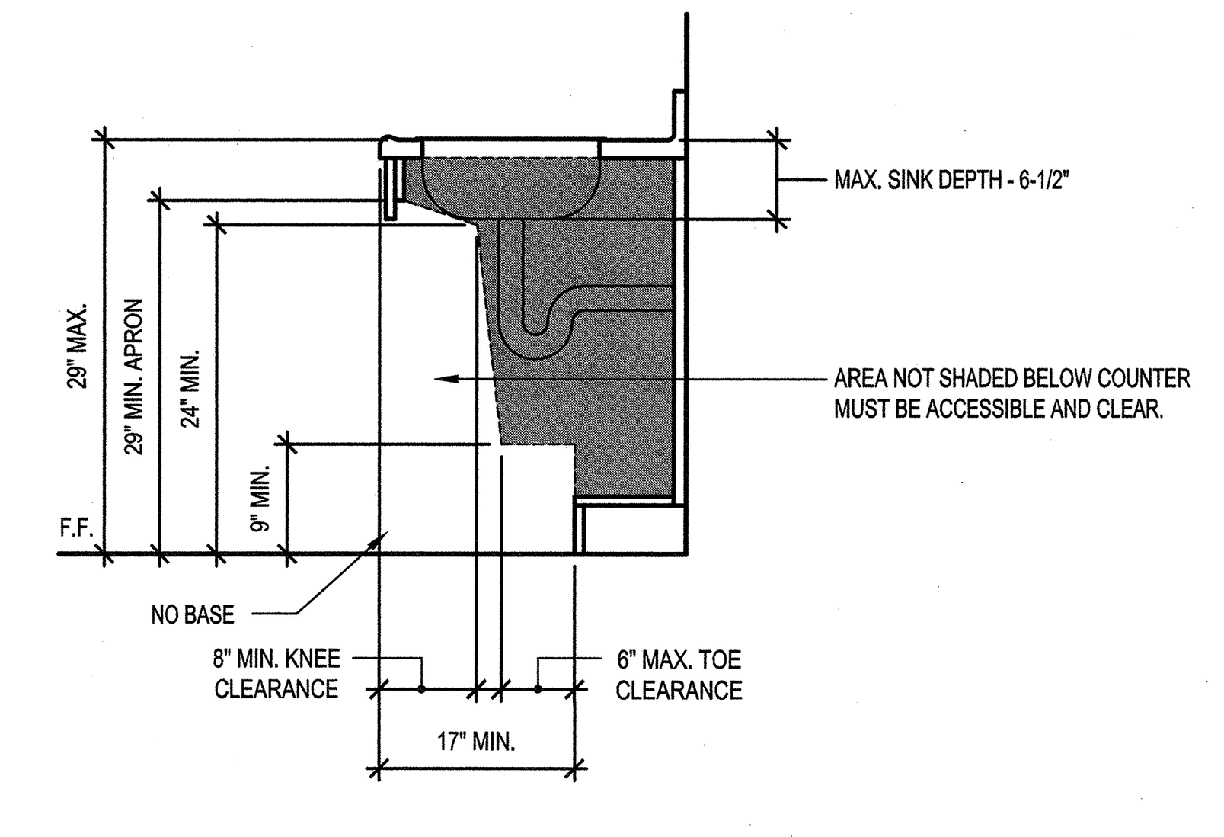
1. ROOM NAME / NUMBER SIGN - SEE DETAIL 19/A-2
2. TACTILE "EXIT" SIGN - SEE DETAIL 20/A-2
3. FIRE EXTINGUISHER - 5 LBS DRY CHEMICAL W2A-108C U.L. RATING ON WALL MOUNTED BRACKET @ +48" A.F.F. TO HANDLE, 4" MAX PROJECTION - DISTRICT WILL SUPPLY AND INSTALL FIRE EXTINGUISHERS
4. NOT USED
5. EXISTING MODULAR BUILDING WALL
6. COUNTERTOP MOUNTED SINK WITH BUBBLER - BY PORTABLE MANUFACTURER
7. SOAP DISPENSER - DISTRICT PROVIDED
8. PAPER TOWEL DISPENSER - DISTRICT PROVIDED
9. 4'X8' MARKERBOARD - BY PORTABLE MANUFACTURER
10. EPSON PROJECTOR - DISTRICT PROVIDED, CONTRACTOR INSTALLED
11. EXISTING WINDOW TO REMAIN
12. VCT FLOORING - BY PORTABLE MANUFACTURER

GENERAL NOTES

1. ALL INTERIOR FINISHES (FLOOR, WALL AND CEILING WILL BE PROVIDED BY THE PORTABLE MANUFACTURER UNLESS OTHERWISE NOTED.

NOTES

1. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.



ACCESSIBLE SINK / LAVATORY

SCALE: 3/4" = 1'-0" 20

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DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

A#03-118937

AC ___ FLS ___ SS ___

DATE APR 0 3 2018

DEPARTMENT OF GENERAL SERVICES

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DUNSMORE ELEMENTARY SCHOOL
RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20967.02

file name:

drawn by: checked by:

date: APRIL 3, 2018

Rev: date: description:

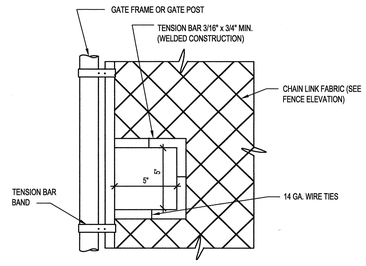
drawing title:

PORTABLE FLOOR PLAN

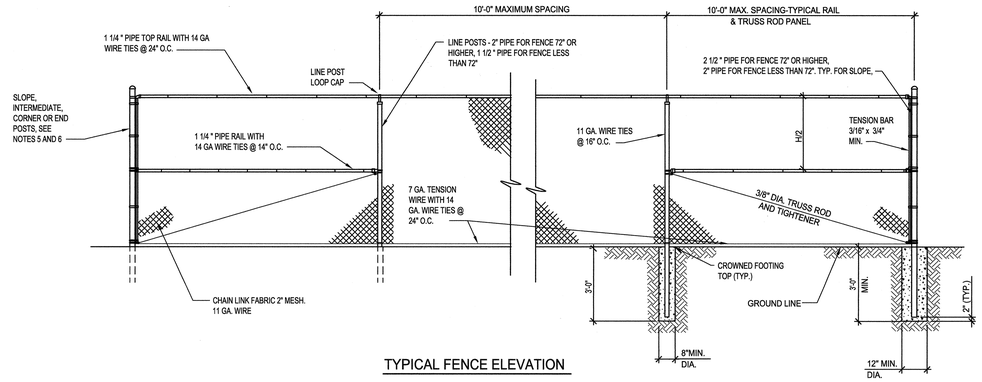
drawing no.:

A-1

drawing of



DETAIL OF CUTOUT FOR CHAIN AND LOCK



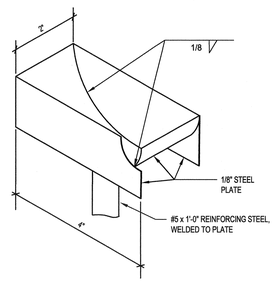
TYPICAL FENCE ELEVATION

GATE POST FOOTING SCHEDULE			
GATE WIDTH		FOOTING MIN. DEPTH, D	
SINGLE GATE	DOUBLE GATE	H TO 6'	H 6' TO 8'
TO 8'	TO 16'	3'-0"	3'-0"

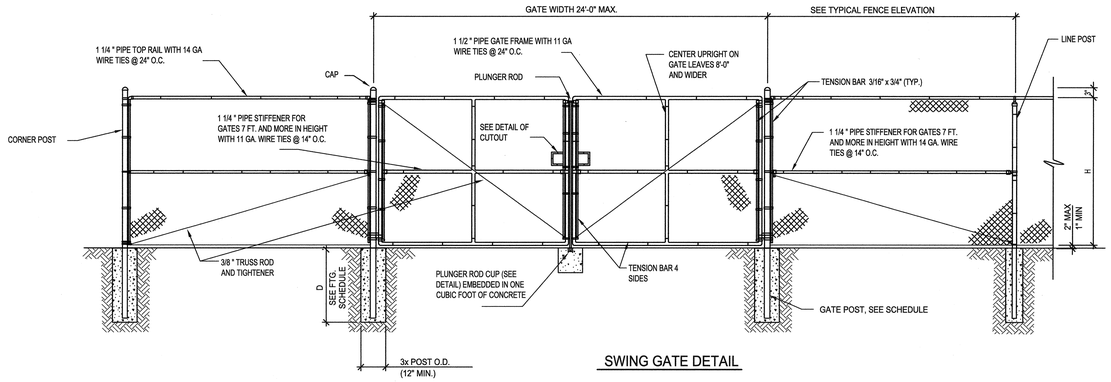
GATE POST SCHEDULE				
FENCE HEIGHT (H)	GATE WIDTH	NOMINAL SIZE OF PIPE INCHES	ACTUAL O.D. INCHES	WEIGHT PER FOOT POUNDS
6 FEET TO 8 FEET INCLUSIVE	SINGLE GATES 6 FEET OR LESS AND DOUBLE GATES 12 FEET OR LESS	2 1/2	2.875	5.79
6 FEET TO 8 FEET INCLUSIVE	SINGLE GATES 6 TO 12 FEET AND DOUBLE GATES 12 TO 24 FEET	3 1/2	4.00	9.11
6 FEET TO 8 FEET INCLUSIVE	SINGLE GATES 12 TO 18 FEET AND DOUBLE GATES 24 TO 36 FEET	6	6.625	18.97

NOTES

1. FABRIC SHALL HAVE KNUCKLED FINISH ON BOTH TOP AND BOTTOM EDGES.
2. ALL GATE HINGES SHALL BE HEAVY DUTY MALLEABLE IRON OR STEEL, INDUSTRIAL SERVICE TYPE AND NOT LESS THAN 3-INCHES IN WIDTH.
3. ALL TIES SHALL BE GALVANIZED STEEL.
4. TOP CAP SHALL BE SECURED TO POST USING 1/4-INCH RIVET.
5. CORNER OR SLOPE POSTS SHALL BE INSTALLED WHEN THE CHANGE IN DEFLECTION ANGLE IS 30 DEGREES OR MORE AT CORNER OR SLOPE POINTS. CONSTRUCT SLOPE POSTS AS THOUGH THEY WERE CORNER POSTS.
6. INTERMEDIATE POSTS SHALL BE PROVIDED WHEN THE DISTANCE BETWEEN CORNER OF SLOPE POSTS EXCEEDS 300 FEET. THEY SHALL BE CONSTRUCTED AS THOUGH THEY WERE CORNER OR SLOPE POSTS.
7. THREADS OF ALL 3/8-INCH ROUND TRUSS RODS SHALL BE PEENDED AFTER INSTALLATION.
8. WHEN TOP RAIL IS OMITTED BY PLAN, PROVIDE 7-GAGE TENSION WIRE WITH 11-GAGE FABRIC TIES OR HOG RINGS SPACED AT 24-INCH INTERVALS.
9. GATES SHALL BE PROVIDED WITH A COMBINATION SPRING LATCH AND PLUNGER ROD, APPROVED BY THE ENGINEER.
10. TENSION WIRE SHALL BE SECURELY FASTENED TO THE TERMINAL POSTS AND BE TAUT AND FREE OF SAG.
11. THE FABRIC SHALL BE PLACED ON THE OUTWARD FACING SIDE OF THE POSTS, STRETCHED TAUT, AND FASTENED SECURELY.



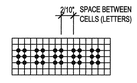
PLUNGER ROD CUP DETAIL



SWING GATE DETAIL

TYPICAL SIGNAGE NOTES

1. TACTILE CHARACTER TYPE: TACTILE CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED (GRADE 2) BRAILLE. CBC SECTION 11B-703.2.
2. TACTILE CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH. CBC SECTION 11B-703.2.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. CBC SECTION 11B-703.2.
4. PROPORTIONS: RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTION 11B-703.2.
5. BRAILLE: CONTRACTED (GRADE 2) BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. BRAILLE DOTS SHALL BE DOMED OR ROUNDED. CBC SECTION 11B-703.3.



CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED AND FLAT TOPPED.

6. MOUNTING HEIGHT AND LOCATION: SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. CBC SECTION 11B-703.4.

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DATE APR 0 3 2018

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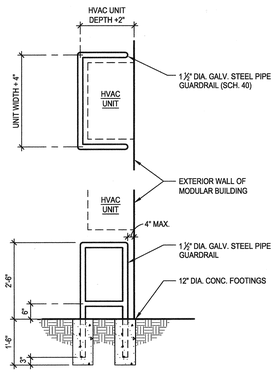
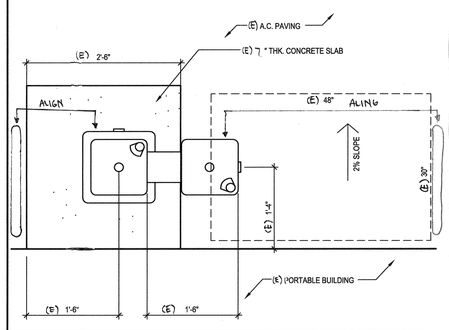
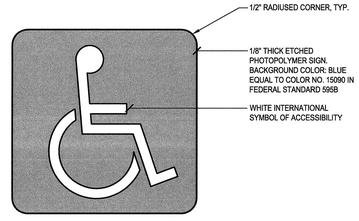
CHAIN LINK FENCE AND GATES — SCALE: N.T.S. — 10



HVAC UNIT GUARDRAIL — SCALE: 1/2" = 1'-0" — 11



PEDESTAL DRINKING FOUNTAIN — SCALE: 1/2" = 1'-0" — 12



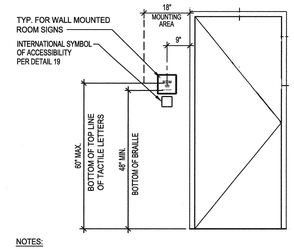
NOTES:

1) THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND.

2) MOUNT WITH 3M HIGH BOND TAPE AND SILICONE GLUE.

3) SEE 14 - FOR LOCATION.

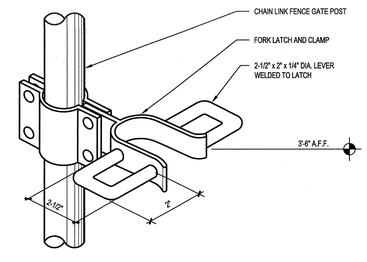
INTERNATIONAL SYMBOL OF ACCESSIBILITY — SCALE: HALF — 13



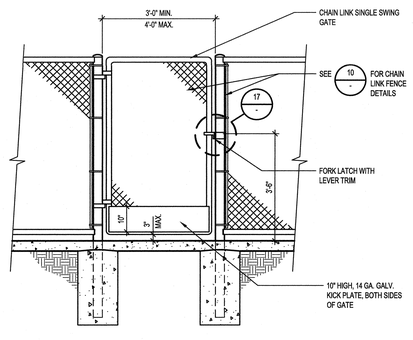
NOTES:

MOUNT SIGN ON THE WALL ADJACENT TO LATCH SIDE OF DOOR. WHERE THERE IS NO WALL SPACE ON LATCH SIDE OF DOOR, PLACE SIGNS ON NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT.

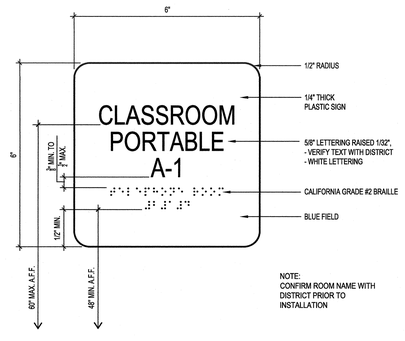
SIGNAGE LOCATION LEGEND — SCALE: 1/2" = 1'-0" — 14



FORK LATCH WITH LEVER TRIM NOT AT PATH OF TRAVEL — SCALE: N.T.S. — 17

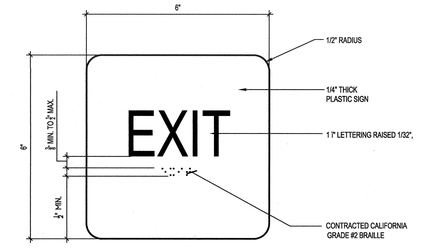


GATE ELEVATION NOT AT PATH OF TRAVEL — SCALE: 1/2" = 1'-0" — 18



NOTE:
CONFIRM ROOM NAME WITH DISTRICT PRIOR TO INSTALLATION

ROOM NAME / NUMBER SIGNAGE — SCALE: HALF — 19



NOTE: SEE DETAIL 14 - FOR MOUNTING HEIGHT

TACTILE EXIT SIGNAGE (ON INTERIOR SIDE) — SCALE: HALF — 20

owner

DUNSMORE ELEMENTARY SCHOOL
RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

tBP project number : 20967.01
file name:
drawn by: checked by:
date: May 10, 2017

Rev: date: description:

drawing title:
DETAILS

drawing no.:
A-2
drawing of

LIGHT FIXTURE SCHEDULE

FBA # 223.026.010

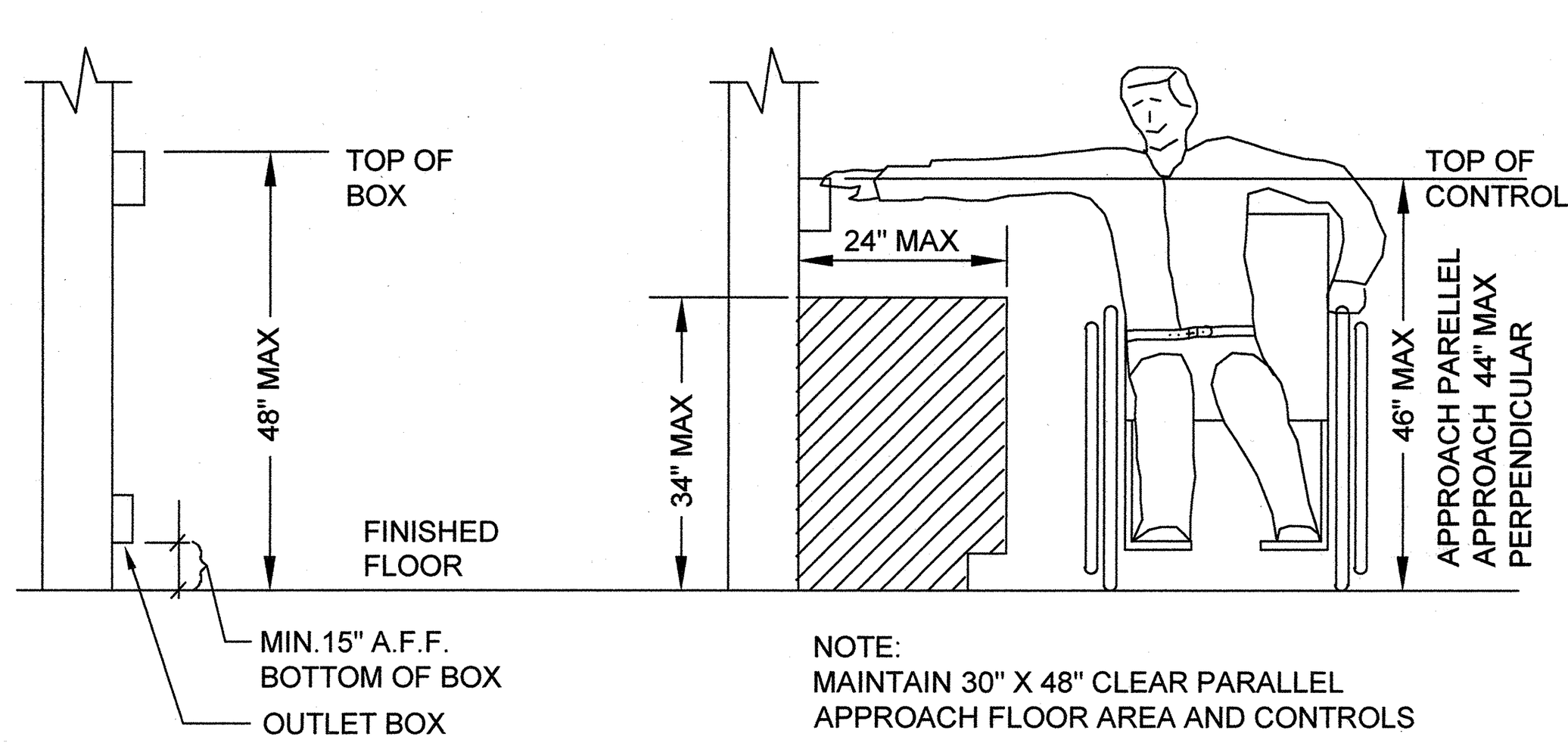
TYPE	LIGHT FIXTURE DESCRIPTION	FIXTURE MAXIMUM TOTAL INPUT WATTS	FIXTURE MINIMUM LUMEN OUTPUT EFFICIENCY	FIXTURE MOUNTING	LAMP TYPE	LAMP COLOR TEMPERATURE K°	LAMP CRI, NOT LESS THAN	EACH LAMP INITIAL MINIMUM LUMEN OUTPUT	TOTAL ALL LAMPS INITIAL MINIMUM LUMEN OUTPUT	LAMP QUANTITY
SL1	LED BUILDING MOUNTED LUMINAIRE WITH DIE CAST ALUMINUM	24	-	WALL	LED	3000	70		2029	
	HOUSING IN FINISH AS SELECTED BY ARCHITECT. TYPE 3									
	DISTRIBUTION; CLEAR ACRYLIC LENS; INTEGRAL DRIVERS AND									
	EMERGENCY BATTERY PACK FOR 90 MINUTES OF EMERGENCY									
	ILLUMINATION, IP65 RATED									
	LITHONIA "WST" SERIES # WST LED 10A700/30K SR3 120 ELCW									
	OR APPROVED EQUAL BY COOPER, GARDCO									

FIXTURE NOTES

(NOTE: REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. FIXTURES LOCATED OUTDOORS SHALL BE RATED FOR STARTING AND OPERATING TEMPERATURES BELOW 0-DEGREES FAHRENHEIT.
2. FIXTURES WITH THE SAME TYPE # SHALL BE THE PRODUCTS OF THE SAME MANUFACTURER, (I.E., TYPE #1, 1A, 1B, ETC., SHALL BE THE SAME MANUFACTURER).
3. VERIFY MOUNTING HEIGHT OF ALL WALL MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT INSTALL LOCATION OF ALL FIXTURES.
5. VERIFY VOLTAGE BEING SUPPLIED TO FIXTURES PRIOR TO SUBMITTING SHOP DRAWINGS AND PRIOR TO ORDERING. FIXTURE VOLTAGE SHALL MATCH BRANCH CIRCUITS CONNECTING TO RESPECTIVE FIXTURE.
6. PROVIDE TESTING CERTIFICATION AND COMMISSIONING OF LIGHTING FIXTURES, LAMPS, BALLASTS, INSTALLATION, LIGHTING CONTROL SYSTEM AND LIGHTING SYSTEM OPERATION.
7. LIGHTING CONTROL ACCEPTANCE REQUIREMENTS PER 130.4. A CERTIFICATE OF ACCEPTANCE SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER SECTION 10-103(a) OF PART 1 FOR:

   A. AUTOMATIC DAYLIGHT CONTROLS
   B. LIGHTING CONTROLS
   C. DEMAND RESPONSIVE CONTROLS
   D. OUTDOOR LIGHTING CONTROLS



MOUNTING HEIGHT OVER OBSTRUCTION — SCALE: N.T.S. — 1

GENERAL NOTES

1. PORTIONS OF THESE PLANS HAVE BEEN DERIVED FROM INFORMATION TAKEN FROM ORIGINAL ELECTRICAL PLANS. THE INTENT OF THESE PLANS IS TO PROVIDE COMPLETE AND OPERABLE SYSTEMS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL THE FEATURES OF THE BUILDING AND SITE WHICH WAY AFFECT THE PROPER PERFORMANCE OF THIS WORK.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REFER TO THE DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS AND REQUIREMENTS WHICH AFFECT THE PROPER PERFORMANCE OF THIS WORK.
4. RACEWAY ROUTING, DIMENSIONS, AND EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXACT RACEWAY ROUTING TO CONFORM TO FIELD CONDITIONS.
5. ELECTRICAL DOWN TIME MUST BE APPROVED BY THE COLLEGE. CONTRACTOR SHALL MAKE PROVISIONS TO ACCOMPLISH THE WORK OF THIS CONTRACT WITHOUT UNDUE INTERFERENCE WITH COLLEGE OPERATIONS.
6. ALL EQUIPMENT DEVICES, CONDUIT FITTINGS, JUNCTION BOXES, AND CONSTRUCTION LOCATED OUTDOORS SHALL BE WEATHERPROOF.
7. ALL SIGNAL AND FIRE ALARM SYSTEMS TERMINATIONS MADE IN JUNCTION BOXES SHALL BE EXECUTED USING TERMINAL BLOCKS.
8. SIGNAL AND/OR FIRE ALARM SYSTEMS SPLICES ARE NOT PERMITTED IN UNDERGROUND PULLBOXES.
9. ALL ELECTRICAL EQUIPMENT INCLUDING PANELS, OUTLET BOXES, CONDUITS, ETC. SHALL BE ANCHORED TO BUILDING STRUCTURE. ANCHORING SHALL BE DESIGNED FOR 1.0 GRAVITY LATERAL ACCELERATION OF THE EQUIPMENT.
10. VERIFY THE EXACT LOCATION OF THE RELOCATABLE BUILDING PANELBOARD WITH THE BUILDING MANUFACTURER PRIOR TO ROUGH-IN.
11. WHERE POSSIBLE ALL RACEWAYS SHALL BE ROUTED CONCEALED IN WALLS AND/OR ABOVE ACCESSIBLE CEILING SPACE.
12. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
13. PROVIDE OZ COMPANY TYPE "DX" EXPANSION/DEFLECTION FITTINGS WITH BONDING JUMPER ON ALL CONDUITS AT ALL BUILDING EXPANSION OR SEISMIC JOINT CROSSINGS.

PERFORMANCE NOTES

1. VISIT THE SITE PRIOR TO BID AND INVESTIGATE THE EXISTING FIRE ALARM, TELEPHONE, INTRUSION DETECTION, EMS, CLOCK, INTERCOM/PA, TELEVISION AND DATA SYSTEMS EQUIPMENT ON CAMPUS. COORDINATE WITH THE EXISTING SYSTEMS MANUFACTURERS FOR ALL REQUIRED EQUIPMENT MODIFICATIONS, CONDUIT, WIRING AND UPGRADING REQUIRED TO EXTEND THE EXISTING SYSTEMS TO THE NEW MODULAR BUILDINGS. INCLUDE ALL COSTS IN BID. ALL NEW COMPONENTS SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM.
2. PAINT ALL EXPOSED RACEWAYS TO MATCH SURROUNDING SURFACE COLOR.
3. PROVIDE GROUNDING SYSTEM PER DETAIL A/E0.2 WHERE METAL RAMPS OR RAILWAYS ARE USED PROVIDE 1#2 BONDING ELECTRODE FROM THE RAMPS AND RAILWAYS TO THE STRUCTURAL STEEL MEMBER OF THE BUILDING.
4. PROVIDE WEATHERPROOF SEALANT AROUND PRECAST CONCRETE PULL BOX COVERS AFTER WORK IS COMPLETED WITHIN BOX.
5. PROVIDE APPROVED WEATHERPROOF SEALANT AROUND ALL WALL PENETRATIONS. SEAL IN A MANNER ACCEPTABLE TO THE ARCHITECT.
6. PROVIDE CORE DRILLING OF ALL STRUCTURES AS REQUIRED FOR RACEWAY ROUTING AND DISCOVERED SITE CONDITIONS.
7. RECONNECT EXISTING CIRCUITS FOR EQUIPMENT THAT IS TO REMAIN IF DISRUPTED BY WORK PERFORMED UNDER THIS CONTRACT. MAINTAIN CONTINUITY OF ALL FEED THRU WIRING.
8. WHERE NEW CONDUCTOR(S)/CABLING IS SPECIFIED IN EXISTING CONDUITS CONTAINING EXISTING WIRING THE CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING WIRING TO PULL IN NEW PLUS REPLACEMENT OF EXISTING REMOVED.
9. PROVIDE NEW TELEPHONE(S), SPEAKERS, DATA OUTLETS, AUDIO/VISUAL SYSTEMS AND CLOCKS IN MODULAR BUILDINGS WHERE INDICATED ON DRAWINGS.

EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1615A.1.26.

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

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

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

MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH APPLICABLE OSHPD PRE-APPROVAL (OPM#) #________________.

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

SYMBOL LIST

(ALL SYMBOLS NOT NECESSARILY USED ON THESE DRAWINGS)
ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS.
VERIFY EXACT LOCATIONS AND HEIGHTS OF OUTLETS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.

- JUNCTION BOX, FLUSH WALL MOUNTED, +18".
- JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING AREA OR MOUNTED ON ROOF.
- INDICATES CONNECTION TO EQUIPMENT AS REQUIRED, TYPICAL.
- (A / E-1) PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLOON INDICATES PANEL DESIGNATION "A", SEE DRAWING E-1 FOR PANEL SCHEDULE.
- TERMINAL CABINET. ADJACENT LINE INDICATES CABINET FRONT.
- EQUIPMENT CABINET. ADJACENT LINE INDICATES CABINET FRONT.
- LIGHTING FIXTURE, SURFACE OR FLUSH MOUNTED AS INDICATED ON FIXTURE SCHEDULE, ON WALL MOUNTED OUTLET BOX, +90". STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL.
- (S 2, P / a, b) SINGLE POLE TOGGLE SWITCH, ON FLUSH WALL MOUNTED OUTLET BOX, +45". INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE. SUBSCRIPT OR SUPERSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING:
  - 2 - DOUBLE POLE 4 - FOUR WAY M - MANUAL MOTOR STARTERS
  - 3 - THREE WAY P - PILOT LIGHT K - KEY OPERATED
  - R - SPDT MOMENTARY CONTACT RELAY SWITCH V - VAPOR PROOF
  - a,b,c,d, ETC. - MULTIPLE SWITCHES WITH IDENTIFICATION OF OUTLET CONTROLLED.
- (2 / 100) FIXTURE SCHEDULE DESIGNATION: "2" INDICATES FIXTURE TYPE, "100" INDICATES FIXTURE TOTAL WATTAGE.
- (C / E-2) DETAIL CALLOUT, "C" INDICATES DETAIL, "E-2" INDICATES DRAWING WHERE DETAIL OCCURS.
- (1) PLAN NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.
- CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE.
  - 1/2" C - 2 #12, 1#12(GRD) — 3/4" C - 6 #12, 1#12(GRD)
  - 1/2" C - 3 #12, 1#12(GRD) — 1" C - 7 #12, 1#12(GRD)
  - 3/4" C - 4 #12, 1#12(GRD) — 1" C - 8 #12, 1#12(GRD)
  - 3/4" C - 5 #12, 1#12(GRD) — 1 1/4" C - 9 #12, 1#12(GRD)
- CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE, 3/4"C. MINIMUM.
- CONDUIT, INSTALLED EXPOSED.
- (B-5, 7, 9) HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH COMMON NEUTRAL
- UNDERGROUND CONDUIT STUBOUT, STUB 5'-0" FROM BUILDING OR WALKWAY, CAP, MARK AND RECORD.
- INDICATES CONDUIT SLEEVE(S) THROUGH WALL ABOVE THE CEILING. NUMBER AND SIZE OF CONDUITS AS NOTED.
- (— — E — —) EXISTING CONDUIT.
- (—— F ——) FIRE ALARM SYSTEM - 3/4"C. WITH FIRE ALARM SYSTEM CONDUCTORS AS SPECIFIED.
- (—— P ——) PUBLIC ADDRESS SYSTEM - 3/4"C., WITH CONDUCTORS AS SPECIFIED.
  P2 - 3/4"C WITH CONDUCTORS AS SPECIFIED.
- (—— TV ——) TELEVISION SYSTEM - 1"C. WITH CONDUCTORS AS SPECIFIED.
- (—— ID ——) INTRUSION DETECTION SYSTEM - 3/4"C. WITH CONDUCTORS AS SPECIFIED.
- (WP S) WEATHERPROOF PUBLIC ADDRESS/CLASS PASSING SPEAKER, HOUSING & GRILLE, FLUSH WALL MOUNTED, +90".
- (S) PUBLIC ADDRESS/CLASS PASSING SPEAKER, HOUSING AND GRILL, FLUSH WALL MOUNTED, +90".
- (S) PUBLIC ADDRESS/CLASS PASSING SPEAKER, HOUSING & GRILLE, FLUSH CEILING MOUNTED.
- (S AV) CLASSROOM AUDIO ENHANCEMENT SPEAKER IN FLUSH CEILING MOUNTED BACKBOX.
- (—— D1 ——) COMPUTER/DATA PROCESSING SYSTEM - 3/4"C., WITH ONE(1) CAT6 CABLE AS SPECIFIED.
  D2 - 1"C., WITH TWO(2) CAT6E CABLES AS SPECIFIED.
  D3 - 1 1/4"C., WITH THREE(3) CAT6E CABLES AS SPECIFIED.
  D4 - 1 1/4"C., WITH FOUR(4) CAT6E CABLES AS SPECIFIED.
- SELF CORRECTING BATTERY OPERATED CLOCK, +90" A.F.F. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS.
- (ID) INTRUSION DETECTION SYSTEM MOTION SENSOR, ON FLUSH CEILING MOUNTED OUTLET BOX.
- COMPUTER/DATA OUTLET WITH TWO (2) DATA OUTLET CONNECTORS, ON FLUSH IN WALL OUTLET BOX, +18". PROVIDE OUTLET BOX, DATA JACKS, FACE PLATE, ETC. AND 1" CONDUIT TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PROVIDE TWO (2) CAT 6E DATA NETWORK CABLES AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE MDF/IDF.
- (WAP) COMPUTER/DATA OUTLET WITH TWO (2) DATA OUTLET CONNECTORS, ON CEILING MOUNTED OUTLET BOX, FOR WIRELESS ACCESS POINT. PROVIDE OUTLET BOX, DATA JACK, FACE PLATE, ETC. PROVIDE TWO (2) CAT 6E DATA NETWORK CABLE AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE MDF/IDF.
- COMPUTER/DATA OUTLET WITH DATA OUTLET CONNECTOR, ON CEILING MOUNTED OUTLET BOX. PROVIDE ONE (1) CAT 6E DATA NETWORK CABLE AS SPECIFIED FROM THE OUTLET TO THE RESPECTIVE MDF/IDF.
- (AV) AUDIO/VIDEO OUTLET, ON FLUSH WALL MOUNTED OUTLET BOX WITH COVERPLATE AND GROMETTED OPENING PROVIDE OUTLET BOX, COVERPLATE AND 2" CONDUIT CONCEALED IN WALL TO THE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE.
- (TC) AUDIO/VIDEO CONTROL PANEL, ON FLUSH IN WALL MOUNTED OUTLET BOX, +45"A.F.F. LOCATED AT TEACHER'S DESK. PROVIDE CONTROL PANEL, OUTLET BOX AND 1" CONDUIT CONCEALED IN WALL DOWN TO AV CONNECTOR PLATE. AT +18"A.F.F.
- TELECOMMUNICATIONS OUTLET ON FLUSH WALL MOUNTED OUTLET BOX +18", WITH DESK MOUNTED DEVICE. PROVIDE 1"C. WITH CONDUCTORS AS SPECIFIED STUBBED INTO ACCESSIBLE CEILING SPACE.
- (P) DUPLEX CONVENIENCE RECEPTACLE VERTICAL ON FLUSH CEILING MOUNTED OUTLET BOX, +18".
- DUPLEX CONVENIENCE RECEPTACLE VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX, +18". INDICATES WALL MOUNTED OUTLET BOX, TYPICAL.
- DOUBLE DUPLEX (FOUR-PLEX) CONVENIENCE RECEPTACLE ON ONE FLUSH WALL MOUNTED OUTLET BOX
- CIRCUIT BREAKER STATIONARY (NON-DRAWOUT) SECONDARY VOLTAGE.
- DENOTES CONDUIT(S) RISING UP.
- MODULAR BUILDING GROUND ROD. SEE DETAIL 3/E-005.
- (E) LOW VOLTAGE LIGHTING ENTRANCE CONTROL STATION ON FLUSH IN WALL OUTLET BOX, +45".
- (D) LOW VOLTAGE LIGHTING INSTRUCTORS CONTROL STATION ON FLUSH IN WALL OUTLET BOX, +45".
- LIGHTING FIXTURE, SURFACE OR PENDANT MOUNTED, ON FLUSH CEILING MOUNTED OUTLET BOX.
- LIGHTING FIXTURE, RECESS MOUNTED, WITH OUTLET BOX.
- LIGHTING FIXTURE, SURFACE OR FLUSH MOUNTED AS INDICATED ON FIXTURE SCHEDULE, ON WALL MOUNTED OUTLET BOX, +90". STEM INDICATES WALL MOUNTED OUTLET BOX, TYPICAL.
- OUTLET ON EMERGENCY LIGHTING CIRCUIT.
- LIGHTING FIXTURE WITH LAMPS ON NORMAL AND EMERGENCY LIGHTING CIRCUITS, PROVIDE SEPARATE LAMP BALLASTS AS REQUIRED.

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AWG	AMERICAN WIRE GAUGE
AMP, A	AMPERE
AF/AT	AMP FRAME, AMP TRIP
AS/AF	AMP SWITCH, AMP FUSE
AV	AUDIO VISUAL
CIRC., CKT.	CIRCUIT
CB	CIRCUIT BREAKER
C	CONDUIT
C.O.	CONDUIT ONLY
CONN	CONNECTED
DIA	DIAMETER
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
E-O-L	END-OF-LINE CIRCUIT TERMINATOR
EF	EXHAUST FAN
ER	EXISTING EQUIPMENT TO BE REMOVED
E	EXISTING EQUIPMENT
FT. OR '	FEET
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
H.,W.,D.,L.	HEIGHT, WIDTH, DEPTH, LENGTH
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IN. OR "	INCHES
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
L.O.	LUGS ONLY
LTG, LTS	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MH	METAL HALIDE
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
PRIMARY	OVER 600 VOLTS
PH. OR	PHASE
PROVIDE	FURNISH, INSTALL AND CONNECT
PA	PUBLIC ADDRESS
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
RL	RELOCATED EXISTING EQUIPMENT
SECONDARY	600 VOLTS AND LESS
O	INDICATES DEVICE ON SURFACE WALL MOUNTED OUTLET BOX.
TV	TELEVISION
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT AMPERES
WP	WEATHERPROOF
W	WIRE
DFCI	DISTRICT FURNISHED CONTRACTOR INSTALLED
DFDI	DISTRICT FURNISHED DISTRICT INSTALLED
BLDG.	BUILDING
IWB	INTERACTIVE WHITE BOARD
AVC	AUDIO/VIDEO CABINET
1P	SINGLE POLE
2P	DOUBLE POLE
3P	TRIPLE POLE

SHEET INDEX

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A# 03-118937
AC ____ FLS ____ SS ____
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DUNSMORE ELEMENTARY SCHOOL RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

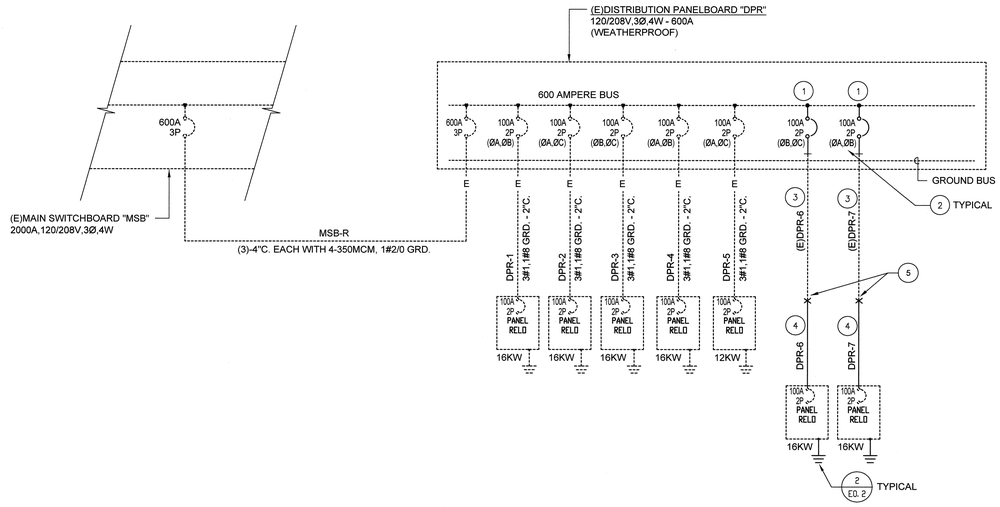
owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018
Rev: date: description:

drawing title:
GENERAL NOTES, SYMBOL LIST, FIXTURE SCHEDULE AND DETAIL

drawing no.:
E0-1
drawing of

FBA Engineering / Plot Date: 4/2/2018 10:40 AM / Plotted by: Brandon Nguyen / Drawing Location: I:\212\231\E0-1_212231.dwg



PLAN NOTES:

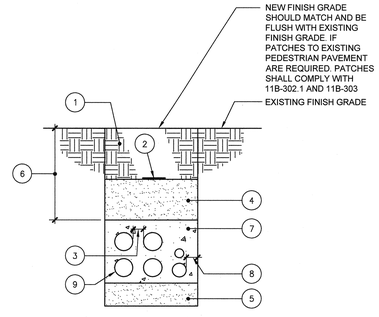
1. PROVIDE NEW CIRCUIT BREAKER (TYPE, MANUFACTURER AND A.I.C. RATING TO MATCH EXISTING) IN AVAILABLE SPACE IN MAIN SERVICE ENTRANCE SWITCHBOARD. PROVIDE DEAD FRONT COVER, PERMANENTLY ATTACHED ENGRAVED NAMEPLATE AND MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
2. CONNECT TO PHASE BUSSING AS INDICATED SO THAT LOAD ARE BALANCED ACROSS ALL THREE PHASES.
3. PROVIDE NEW 3#1, 1#8 GRD. IN EXISTING EMPTY 2"C.
4. PROVIDE 3#1, 1#8 GRD. - 2"C.
5. INTERCEPT EXISTING CONDUIT AND EXTEND WITH NEW CONDUIT AND CONDUCTORS AS INDICATED.

NOTE:
1. ALL EQUIPMENT SHOWN DASHED IS EXISTING ALL OTHER EQUIPMENT SHALL BE PROVIDED UNDER THIS CONTRACT.
2. THE EXISTING ELECTRICAL SERVICE IS SUFFICIENT TO SERVE THE NEW ADDITIONAL LOAD INDICATED.

THE EXISTING SOURCE OF POWER HAS BEEN REVIEWED AND FOUND TO BE ADEQUATE FOR ADDITIONAL POWER LOADS

PARTIAL SINGLE LINE DIAGRAM

SCALE NONE 1



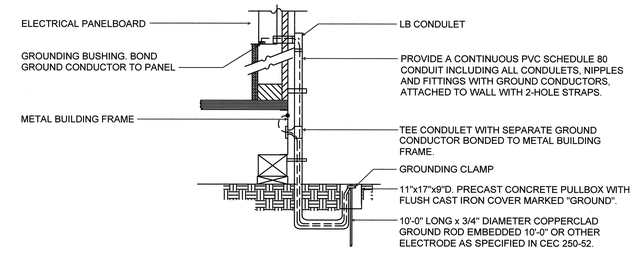
NOTE: SEE SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

DUCT BANK NOTES:

1. NATIVE SOIL BACK FILL
2. 3" WIDE WARNING TAPE LOCATED 12" BELOW GRADE. TAPE SHALL INDICATE: CAUTION BURIED ELECTRICAL CONDUIT".
3. 3" BETWEEN IDENTICAL SYSTEM CONDUITS OR 24" BETWEEN DIFFERENT SYSTEM CONDUITS.
4. DAMP SAND BACK FILL TO WITHIN 12" OF FINISH GRADE.
5. 6" BED OF DAMP SAND.
6. 36" IN TRAFFIC AREAS, 24" IN NON-TRAFFIC AREAS.
7. CONCRETE ENCASEMENT.
8. 3" MINIMUM COVERAGE.
9. REFER TO PLANS FOR CONDUITS SIZE AND QUANTITIES.

CONDUIT DUCT BANK DETAIL

SCALE NONE 3



NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC. TABLE 250.66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250.52). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOTE ACCEPTABLE BONDING.)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN SIX FEET AWAY (CEC 250.56). ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL GROUND RESISTANCE TESTING IS NOT REQUIRED.
5. WHERE MODULAR BUILDINGS ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED.
6. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER CEC 250.52 (A)(3).
7. OTHER GROUNDING METHODS IDENTIFIED IN CEC 250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE.
8. SEE SPECIFICATIONS FOR TESTING OF GROUNDING REQUIRED.

MODULAR BUILDING GROUND DETAIL

SCALE NONE 2

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DUNSMORE ELEMENTARY SCHOOL
RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20987.02
file name:
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date: APRIL 3, 2018

Rev:	date:	description:

drawing title:
SINGLE LINE DIAGRAM AND DETAILS

drawing no.:
E0-2
drawing of

FIRE ALARM BATTERY CALCULATIONS

EXISTING FIRE ALARM CONTROL PANEL "FACP2" A#03-118062

DEVICE	STAND-BY CURRENT	ALARM CURRENT
(4) SMOKE DETECTOR	0.002	0.024
(4) HEAT DETECTOR	0.002	0.024
TOTAL	0.004	0.048

TOTAL NEW STANDBY CURRENT X 60 HOURS = 0.004A x 60 HR = 0.240 A-HR
TOTAL NEW ALARM CURRENT X 15 MINUTES = 0.048A x 0.25HR = 0.012 A-HR
TOTAL MINIMUM AMPERE - HOUR RATING OF BATTERIES = 0.252 A-HR

NOTES:
1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS STANDBY AND 15 MINUTES ALARM.
2. EXISTING SPARE BATTERY STANDBY POWER PER A#03-118062 = 30.51 A-HR
3. NEW SPARE BATTERY STANDBY POWER = 30.258 A-HR

EXISTING EXPANDER PANEL "XPR" A#03-118062

DEVICE	STAND-BY CURRENT	ALARM CURRENT
(2) 75cd STROBE	———	0.316
	0.000	0.316

TOTAL STANDBY CURRENT X 60 HOURS = 0.000A x 60 HR = 0.000 A-HR
TOTAL NEW ALARM CURRENT X 15 MINUTES = 0.316A x 0.25 HR = 0.079 A-HR
TOTAL MINIMUM AMPERE - HOUR RATING OF BATTERIES = 0.079 A-HR

NOTES:
1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS STANDBY AND 15 MINUTES ALARM.
2. EXISTING SPARE BATTERY STANDBY POWER PER A#03-118062 = 1.373 A-HR
3. NEW SPARE BATTERY STANDBY POWER = 1.294 A-HR

EXISTING DIGITAL AUDIO AMPLIFIER "AMP1" A#03-118062

DEVICE	STAND-BY CURRENT	ALARM CURRENT
(4) 1W SPEAKER	———	0.160
	0.000	0.160

TOTAL STANDBY CURRENT X 60 HOURS = 0.000 A x 60 HR = 0.000 A-HR
TOTAL NEW ALARM CURRENT X 15 MINUTES = 0.160 A x 0.25 HR = 0.040 A-HR
TOTAL MINIMUM AMPERE - HOUR RATING OF BATTERIES = 0.040 A-HR

NOTES:
1. BATTERY CALCULATION SHALL BE BASED ON A MINIMUM OF 60.0 HOURS STANDBY AND 15 MINUTES ALARM.
2. EXISTING SPARE BATTERY STANDBY POWER PER A#03-118062 = 15.8 A-HR
3. NEW SPARE BATTERY STANDBY POWER = 15.76 A-HR

FIRE ALARM VOLTAGE DROP CALCULATION

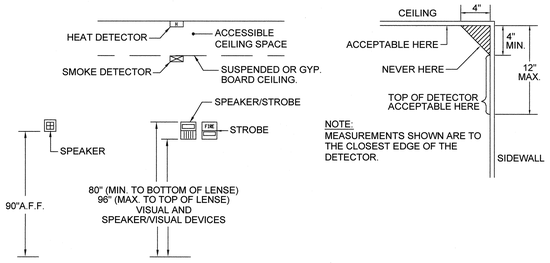
INDICATING CIRCUIT #	SERVICE TO	CONTROL PANEL TO BUILDING LENGTH FEET	CONTROL PANEL TO BUILDING CONDUCTOR SIZE (AWG)	DEVICE LOADS AMPS	LOAD CURRENT AMPS	VOLTS DROPPED PERCENT
V2	VISUAL DEVICE	105'	12	2 @0.158	0.316	0.457
S2	SPEAKER DEVICE	105'	18	4 @0.040	0.160	0.320

FORMULA: $\frac{\text{AMPS x DISTANCE x 21.6}}{\text{CIRC. MILS.}} \times \frac{100}{\text{VOLTS}}$ = PERCENT DROP

CIRCUIT V2: $\frac{0.316 \times 105' \times 21.6}{6530} \times \frac{100}{24}$ = 0.457%

CIRCUIT S2: $\frac{0.160 \times 105' \times 21.6}{1620} \times \frac{100}{70}$ = 0.320%

PULL STATION/HORN/STROBE ELEVATION



NOTE:
MEASUREMENTS SHOWN ARE TO THE CLOSEST EDGE OF THE DETECTOR.

FIRE ALARM EQUIPMENT SCHEDULE

ITEM DESCRIPTION	SYMBOL	MOUNTING	CATALOG NUMBERS	CSFM LISTING NUMBERS	NOTES
EXISTING FIRE ALARM CONTROL PANEL WITH BUILT-IN DIGITAL VOICE COMMANDER AND PAGING MICROPHONE	FACP (E)	+48"	NOTIFIER NSF2-640	7165-0028:0243	A#03-118062
EXISTING FIRE ALARM INTELLIGENT AMPLIFIER "AMP1"	FACP (E)	+48"	NOTIFIER DAA2 SERIES	7165-0028:0243	A#03-118062
EXISTING FIRE ALARM POWER SUPPLY "XPR"	FACP (E)	+48"	NOTIFIER FCPS-24S6	7315-0028:0225	A#03-118062
SMOKE DETECTOR ON FLUSH CEILING MOUNTED OUTLET	S	CEILING	NOTIFIER FSP-851 B210LP BASE	7272-0028:0206	0.0003A 0.006A
HEAT DETECTOR ON FLUSH CEILING MOUNTED OUTLET	H	ATTIC	NOTIFIER FST-851R B210LP BASE	7270-0028:0196	0.0003A 0.006A
WEATHERPROOF SPEAKER ON WEATHERPROOF SURFACE MOUNTED OUTLET BOX	WP 1W	+90"	SYSTEM SENSOR SPRK	7320-1653:0201	0.040A
COMBINATION SPEAKER/VISUAL STROBE DEVICE ON FLUSH CEILING MOUNTED OUTLET BOX.	75cd 1W	CEILING	SYSTEM SENSOR SPSC	7320-1653:0201	30.75 CANDELA PER UL MINIMUM PER U.L. STANDARD 1971 0.158A 0.040A

FIRE ALARM SYSTEM NOTES

FIRE ALARM COMPLETE PLAN SUBMITTAL

1.0 PROJECT INFORMATION

A. OCCUPANCY GROUP

REFER TO ARCHITECTURAL DRAWING.

B. CONSTRUCTION TYPE

REFER TO ARCHITECTURAL DRAWING.

C. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2, CHAPTER 7, TITLE 24. REFER TO THE ARCHITECTURAL PLANS FOR FIRE-RATE CORRIDOR(S), OCCUPANCY SEPARATION(S) AND AREA SEPARATION WALL(S).

D. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.

E. PROVIDE A STATEMENT OF COMPLIANCE WHEN REQUESTING INSPECTION CFC 901.2.1

F. THE FIRE ALARM SYSTEM DESIGN FOR THIS PROJECT IS ADDRESSABLE AND FULLY AUTOMATIC.

2.0 APPLICABLE CODES AND STANDARDS

A. APPLICABLE CODES AS OF JANUARY 1, 2014

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.;

2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; (2011 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.; (2012 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.; (2012 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.: (2012 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2016 CALIFORNIA ENERGY CODE (CEC),PART 6, TITLE 24 C.C.R.
2007 ASME A17.1 (W/A17.1A/CSA B44A-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2016 EDITION
NFPA 14 STANDPIPE SYSTEMS 2016 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2016 EDITION
NFPA 17A WET CHEMICAL SYSTEMS 2016 EDITION
NFPA 20 STATIONARY PUMPS 2016 EDITION
NFPA 24 PRIVATE FIRE MAINS (INCLUDED IN 2002 NFPA 13) 2016 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2016 EDITION (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")

NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES 2016 EDITION

NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2006 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2012 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2016 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

3.0 UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE INSTALLER SHALL SUPPLY THE OWNER WITH A WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS BUILD DRAWINGS AND EQUIPMENT SPECIFICATIONS.

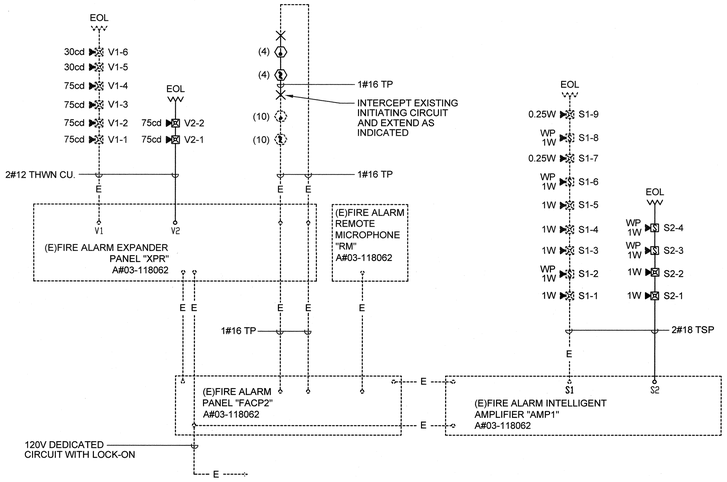
4.0 NFPA 72 CHAPTER 10,14 INSPECTION TESTING AND MAINTENANCE (2016) COMPLETE THE INSPECTION AND TESTING FORM IN ITS ENTIRETY SUBMIT A COPY TO THE DISTRICT, ARCHITECT AND DSA DIVISION OF FIRE AND LIFE SAFETY.

5.0 MANUAL FIRE ALARM BOXES SHALL COMPLY WITH CBC SECTIONS 907.4.2, 907.4.2.1 THROUGH 907.4.2.6.

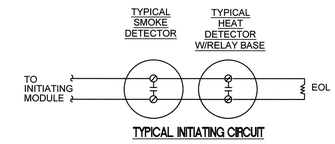
FIRE ALARM NOTE:
FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH PROJECT SUBMITTAL GUIDELINE, GL-2(FLS) DATE 2/10/11

FIRE ALARM SINGLE LINE RISER DIAGRAM

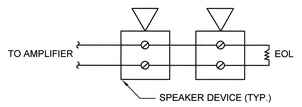
NOTE:
1. ALL EQUIPMENT SHOWN DASHED IS EXISTING. ALL OTHER EQUIPMENT SHALL BE PROVIDED UNDER THIS CONTRACT.

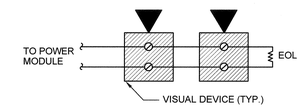


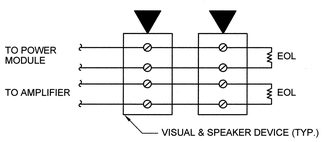
FIRE ALARM WIRING DIAGRAM



TYPICAL INITIATING CIRCUIT







TYPICAL NOTIFICATION CIRCUIT

FIRE ALARM SEQUENCE OF OPERATION

DEVICE / ACTION	SMOKE DETECTOR	AC POWER FAILURE AT NEW "FACP"	HEAT DETECTOR
SOUND ALARM AT "FACP"	YES	NO	YES
ACTIVATE RELAY FOR OFF-SITE MONITORING	YES	YES	YES
SOUND TROUBLE BUZZER AT "FACP"	ON WIRING FAULT	YES	ON WIRING FAULT
ANNUNCIATE AT "FACP"	YES	YES	YES
NOTIFICATION APPLIANCES VISUAL AND AUDIO	YES	NO	YES

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FBA Engineering
Consulting Electrical Engineers
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Costa Mesa, CA 92626
949.852.9966 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 212.231
consultant

FILE NO.: 19-41

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A#03-118937
AC ___ FLS LPHL SS BY
DATE APR 03 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
700 N. Alameda Street, Suite 5-500
Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

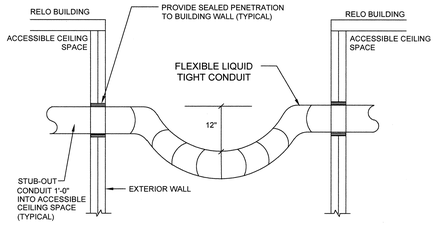
DUNSMORE ELEMENTARY SCHOOL
RELOCATABLE CLASSROOMS - PHASE 2
GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214
owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018

Rev:	date:	description:

drawing title:
FIRE ALARM RISER DIAGRAM AND CALCULATIONS

drawing no.:
E0-3
drawing of

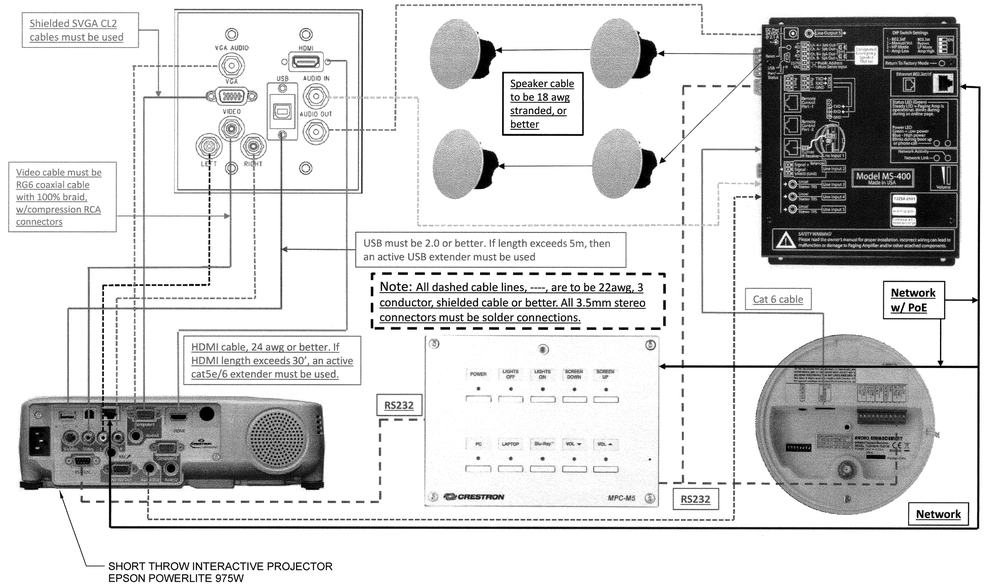


NOTES:

TO BE USED WHEN CONNECTING TWO BUILDINGS FOR NO MORE THAN 6' SEPARATION. SIZE OF CONDUIT AS REQUIRED. FOR DISTANCES IN EXCESS OF 6' PROVIDE UNDERGROUND INSTALLATION.

CONDUIT SLEEVE SEISMIC DETAIL

SCALE: NONE | 3

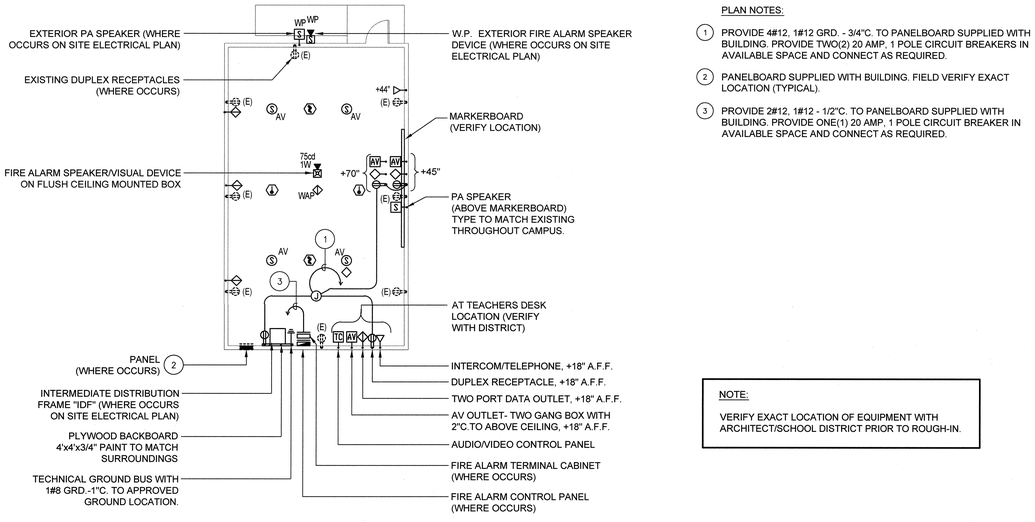


NOTE:

OWNER FURNISHED/OWNER INSTALLED AUDIO/VIDEO SYSTEM INCLUDING EPSON POWERLITE 975W SHORT THROW INTERACTIVE PROJECTOR, LV COMPONENTS, TEACHERS INPUTS, AND CEILING SPEAKERS. CONTRACTOR TO PROVIDE ALL JUNCTION BOXES AND STUD CONDUITS TO THE CEILING SPACE.

AUDIO/VIDEO SYSTEM (TYPICAL FOR EACH CLASSROOM)

SCALE: NONE | 1



PLAN NOTES:

1. PROVIDE 4#12, 1#12 GRD. - 3/4"C. TO PANELBOARD SUPPLIED WITH BUILDING. PROVIDE TWO(2) 20 AMP, 1 POLE CIRCUIT BREAKERS IN AVAILABLE SPACE AND CONNECT AS REQUIRED.
2. PANELBOARD SUPPLIED WITH BUILDING. FIELD VERIFY EXACT LOCATION (TYPICAL).
3. PROVIDE 2#12, 1#12 - 1/2"C. TO PANELBOARD SUPPLIED WITH BUILDING. PROVIDE ONE(1) 20 AMP, 1 POLE CIRCUIT BREAKER IN AVAILABLE SPACE AND CONNECT AS REQUIRED.

NOTE:

VERIFY EXACT LOCATION OF EQUIPMENT WITH ARCHITECT/SCHOOL DISTRICT PRIOR TO ROUGH-IN.

TYPICAL MODULAR BUILDING ELECTRICAL PLAN

SCALE: 1/8"=1'-0" | 2

tBP architecture planning interiors
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FBA Job Number: 212.231
consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A# 03-119737
AC FLS SPH SS BY
DATE APR 03 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
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Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

DUNSMORE ELEMENTARY SCHOOL
RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018

Rev:	date:	description:

drawing title:
TYPICAL MODULAR BUILDINGS ELECTRICAL PLAN AND DETAILS

drawing no.:
E0-4
drawing of

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Stephen R. Zajicek PE	Documentation Author Signature: [signature]
Company: FBA Engineering	Signature Date: 03-15-2018
Address: 150 Paularino Ave., Suite A120	CEA Certification Identification (if applicable): N/A
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name: Stephen R. Zajicek PE	Responsible Designer Signature: [signature]
Company: FBA Engineering	Date Signed: 03-15-2018
Address: 150 Paularino Ave., Suite A120	License: E10372
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (03 x 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
SL1	LED WALL LUMINAIRE	24	☐	☒	2	48	HARDSCAPE	UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐				UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐				UH: UL: FVH: BVH: FH: BH:	○	○
INSTALLED WATTS PAGE TOTAL:						48	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1			

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

A. General Information

Project Address: 4717 Dunsmore Ave., La Crescenta CA, 91214	Total Illuminated Hardscape Area: 1000
Phase of Construction: ☒ New Construction ☒ Addition ☐ Alteration	
Outdoor Lighting Zone (LZ) ☐ LZ-1 ☐ LZ-2 ☒ LZ-3 ☐ LZ-4	
I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114	

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☒	NRCC-LTO-01-E	Certificate of Compliance
☒	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☒	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
☐	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power

		Watts
01	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.	89
	Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)	
02	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	48

D. Declaration of Required Installation Certificates

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☐ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☐ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☐ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Stephen R. Zajicek PE	Documentation Author Signature: [signature]
Company: FBA Engineering	Signature Date: 03-15-2018
Address: 150 Paularino Ave., Suite A120	CEA Certification Identification (if applicable): N/A
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

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Responsible Designer Name: Stephen R. Zajicek PE	Responsible Designer Signature: [signature]
Company: FBA Engineering	Date Signed: 03-15-2018
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City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or leave empty if Exempted)						✓ if Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10	11	
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
EXTERIOR BUILDING	PHOTOCELL "ON"	2	E	✓	✓	✓	E	E	☐	○	○
TYPE SL1	TIMECLOCK "OFF"								☐	○	○
LED WALL LIGHT									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
									☐	○	○
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:
- ☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☐ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b)
- ☑ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☑ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5
- ☑ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

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Company: FBA Engineering	Date Signed: 03-15-2018
Address: 150 Paularino Ave., Suite A120	License: E10372
City/State/Zip: Costa Mesa, CA 92626	Phone: (949) 852 9995

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03-15-2018

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)	1.
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E. PER APPLICATION from Section C-1 + PER UNIT LENGTH (SALES FRONTAGE) from Section C-2 + PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3 + PER SPECIFIC AREA from Section C-4. =	2.
3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)	3.

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B02 x B03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (B05 x B06)	IWA (Watts)	B04 + B07 + B08
HARDSCAPE	1000	0.040	40	140	0.35	49	0	89
							TOTAL	89

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

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ph: 949.673.0300 fx: 949.732.3895
architect

LICENSED ARCHITECT ✿ HUNG L. CHENG NO. C34187 REN. 4-30-19 ✿ STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER STEPHEN R. ZAJICEK No. E 10372 Exp. 09-30-18 ELECTRICAL STATE OF CALIFORNIA

FBA Engineering
Consulting Electrical Engineers
150 Paularino Avenue Suite A120
Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 212.231
consultant

FILE NO.: 19-41
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES
A#03-118937
AC ✓ FLS ✓ SS EY
DATE APR 0 3 2018

DEPARTMENT OF GENERAL SERVICES
DSA Los Angeles Regional Office
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Los Angeles, California 90012
ph: (213)897-3995 fx: (213)897-3159/0726

DUNSMORE ELEMENTARY SCHOOL RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214
owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018
Rev: date: description:

drawing title:
OUTDOOR TITLE 24

drawing no.:
E0-5
drawing of

FBA Engineering / Plot Date: 4/2/2018 10:28 AM / Plotted by: William Ramirez / Drawing Location: I:\212\231\E0-5_212231.dwg

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 4 of 4
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03–15–2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Stephen R. Zajcek PE	Documentation Author Signature:	
Company:	FBA Engineering	Signature Date:	03–15–2018
Address:	150 Paularino Ave., Suite A120	(DEA/ HERS Certification Identification (if applicable):	N/A
City/State/Zip:	Costa Mesa, CA 92626	Phone:	(949) 852 9995

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	Stephen R. Zajcek PE	Responsible Designer Signature:	
Company:	FBA Engineering	Date Signed:	03–15–2018
Address:	150 Paularino Ave., Suite A120	License:	E10372
City/State/Zip:	Costa Mesa, CA 92626	Phone:	(949) 852 9995

STATE OF CALIFORNIA
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CEC-NRCC-ELC-01-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 3 of 4
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03–15–2018

C. Voltage Drop

Check all boxes below if he electrical power distribution system is in compliance with Section 130.5(c).

Enforcement Agency Check that the system complies

- [X] The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%. ☐
- [X] Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal. ☐

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles

Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.

Field Inspector Check that the system complies

- ☐ The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)1. ☐
- ☐ There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2. ☐
- ☐ There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2. ☐
- ☐ Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3. ☐
- ☐ For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4. ☐
- ☐ Receptacles that are only for the following purposes are excepted from Section 130.5(d):
  - Receptacles specifically for refrigerators and water dispensers in kitchen areas.
  - Receptacles located a minimum of six ft above the floor that are specifically for clocks.
  - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.
  - Receptacles on circuits rated more than 20 amperes.
  - Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits. ☐

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CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 2 of 4
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03–15–2018

B. Separation of Electrical Circuits for Electrical Energy Monitoring

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b)

- ☐ The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution systems is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-B.
- ☐ Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.

Fill out Column 2 thru 3 with the compliance information.

General Information	Electrical Power Distribution System information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA	Check that the system complies
			☐

Field Inspector Notes:

STATE OF CALIFORNIA
Electrical Power Distribution
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CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 1 of 4
Project Name: DUNSMORE ELEMENTARY SCHOOL – PHASE 2	Date Prepared: 03–15–2018

General Information

Project Address:	Climate Zone:	Conditioned Floor Area :
4717 DUNSMORE AVE LA CRESCENTA, CA., 91214	3	Unconditioned Floor Area :

Building Type: ☐ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel
[X] Schools ☐ Relocatable Public Schools ☐ Conditioned Spaces ☐ Unconditioned Spaces
Phase of Construction: ☐ New Construction [X] Addition ☐ Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)

Add Row | Remove Last

A. Service Electrical Metering

Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).

- ☐ For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). *Fill out Column 1 through 6 of table below.*
- ☐ For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)2Fi. *Fill out Column 1 through 6 of table below.*
- ☐ EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. *Fill out Column 1, 2 and 6 of table below with the compliance information.*

Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Exception to 130.5 (a)	Field Inspector
01	02	03	04	05	06	07	08
Electrical Service Designation/ Location/Description	kVA	Instantaneous (at the time) kW	Historical peak (kW)	Tracking kWh for a user-definable period	kWh per rate period	Utility metering system	Check that the metering complies
RELOCATABLE BUILDINGS	100 KVA	[X]	[X]	☐	☐	☐	☐

Add Row | Remove Last

SHORT CIRCUIT AND VOLTAGE DROP CALCULATIONS

FEEDERS

DESIGNATION	FEEDER LENGTH (ft)	PHASE ϕ	CONDUCTORS			CONDUIT MAG=1 NON=2	L-L VOLTAGE	L-N VOLTAGE	STARTING Isc	FEEDER AMPACITY	BUS AVAILABLE Isc 3 ϕ	BUS AVAILABLE Isc 1 ϕ L-L	BUS AVAILABLE Isc 1 ϕ L-N	VOLTAGE DROP %
			Cu	SIZE	PARALLEL RUNS									
Panel "P1"	50	1	Cu	#1	1	2	240	120	65,000	63	N/A	14,086	8,232	0.41
Panel "P2"	75	1	Cu	#1	1	2	240	120	65,000	63	N/A	10,122	5,647	0.61

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FBA Job Number: 212.231
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Att 03-118137
AC FLS SS
DATE APR 03 2018

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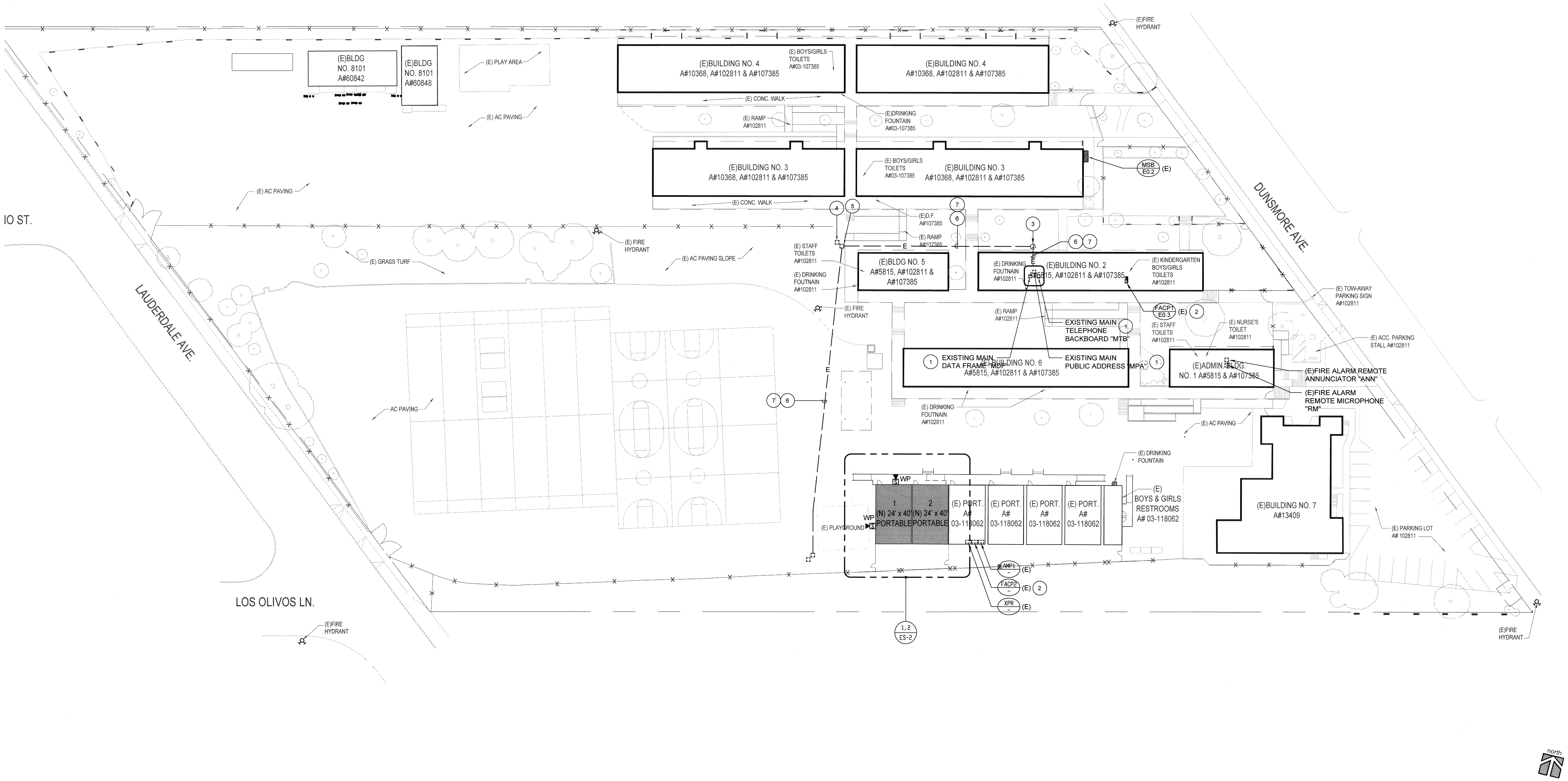
RELOCATABLE CLASSROOMS - PHASE 2
GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214
owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018

Rev: date: description:

drawing title:
POWER DISTRIBUTION
TITLE 24

drawing no.:
E0-6
drawing of



OVERALL SITE ELECTRICAL PLAN | SCALE: 1" = 30'-0" | 1

SITE ELECTRICAL PLAN GENERAL NOTES:

1. CONTRACTOR SHALL EXERCISE CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUITS, ETC., AND SHALL PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN, DETAILED OR INSTALLED BY THIS OR ANY OTHER CONTRACTS. THIS CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

PLAN NOTES:

1. MODIFY EXISTING SIGNAL SYSTEM EQUIPMENT AS REQUIRED TO SERVE THE NEW CONSTRUCTION PROVIDE ADDITIONAL EQUIPMENT AS NEEDED FOR A COMPLETE OPERABLE SYSTEM.
2. CONTRACTOR TO REPROGRAM EXISTING FIRE ALARM CONTROL PANEL AS REQUIRED TO SERVE THE NEW CONSTRUCTION.
3. EXISTING WALL MOUNTED PULLBOX TO REMAIN.
4. EXISTING POWER PULLBOX TO REMAIN.
5. EXISTING SIGNAL PULLBOX TO REMAIN.
6. EXISTING SIGNAL SYSTEM CONDUIT TO REMAIN. PROVIDE ADDITIONAL INTERCOM/PA SYSTEM CABLING AS REQUIRED TO SERVE THE NEW CONSTRUCTION.
7. WHERE NEW CONDUCTOR/CABLING IS SPECIFIED IN EXISTING CONDUIT CONTAINING EXISTING CABLING. CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING WIRING IN ORDER TO PULL IN NEW PLUS REPLACEMENT OF EXISTING REMOVED.

FBA Engineering / Plot Date: 4/2/2018 10:28 AM / Plotted by: William Ramirez / Drawing Location: I:\212\231\ES-1_212231.dwg

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DUNSMORE ELEMENTARY SCHOOL RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
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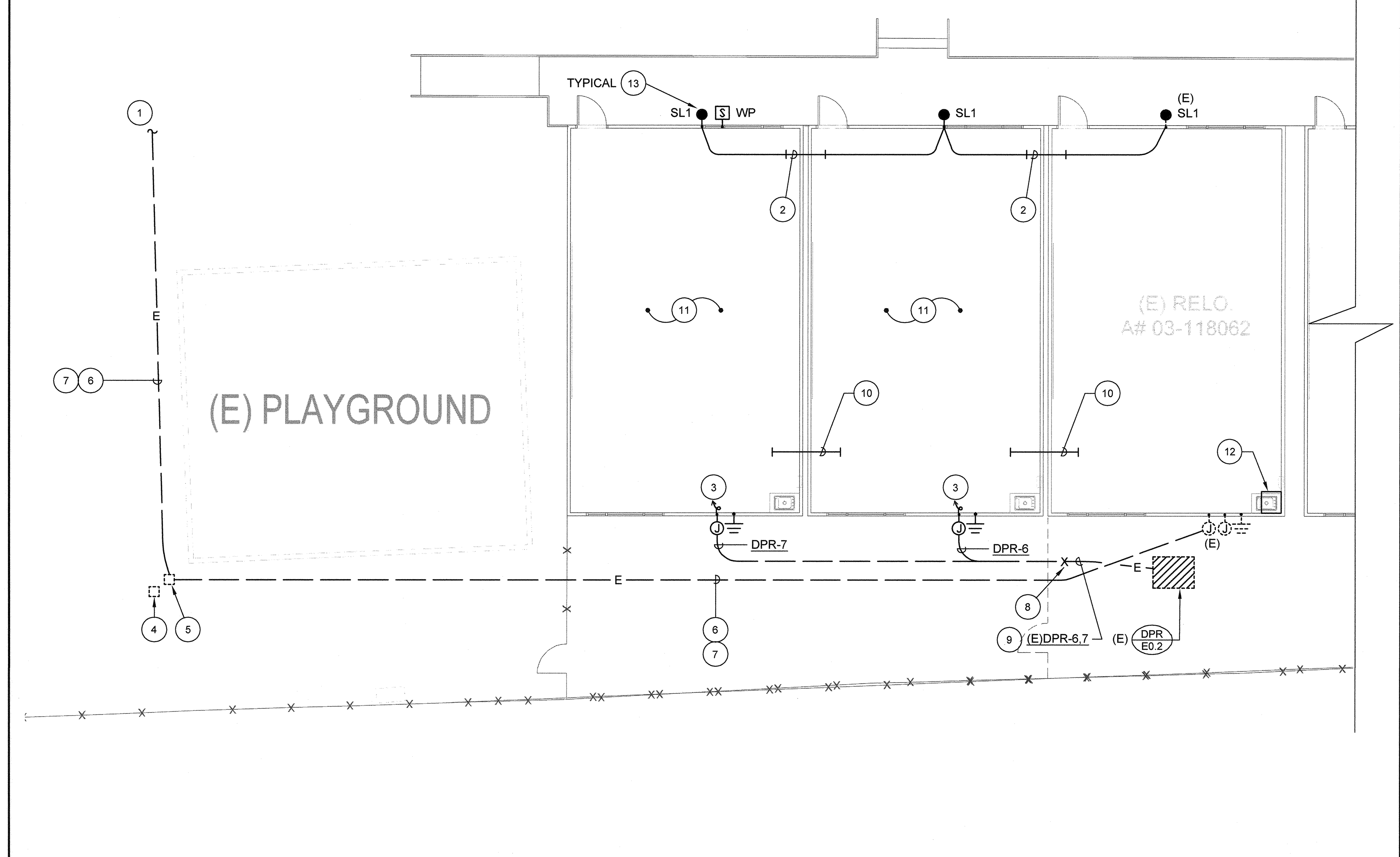
owner

tBP project number: 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018
Rev: date: description:

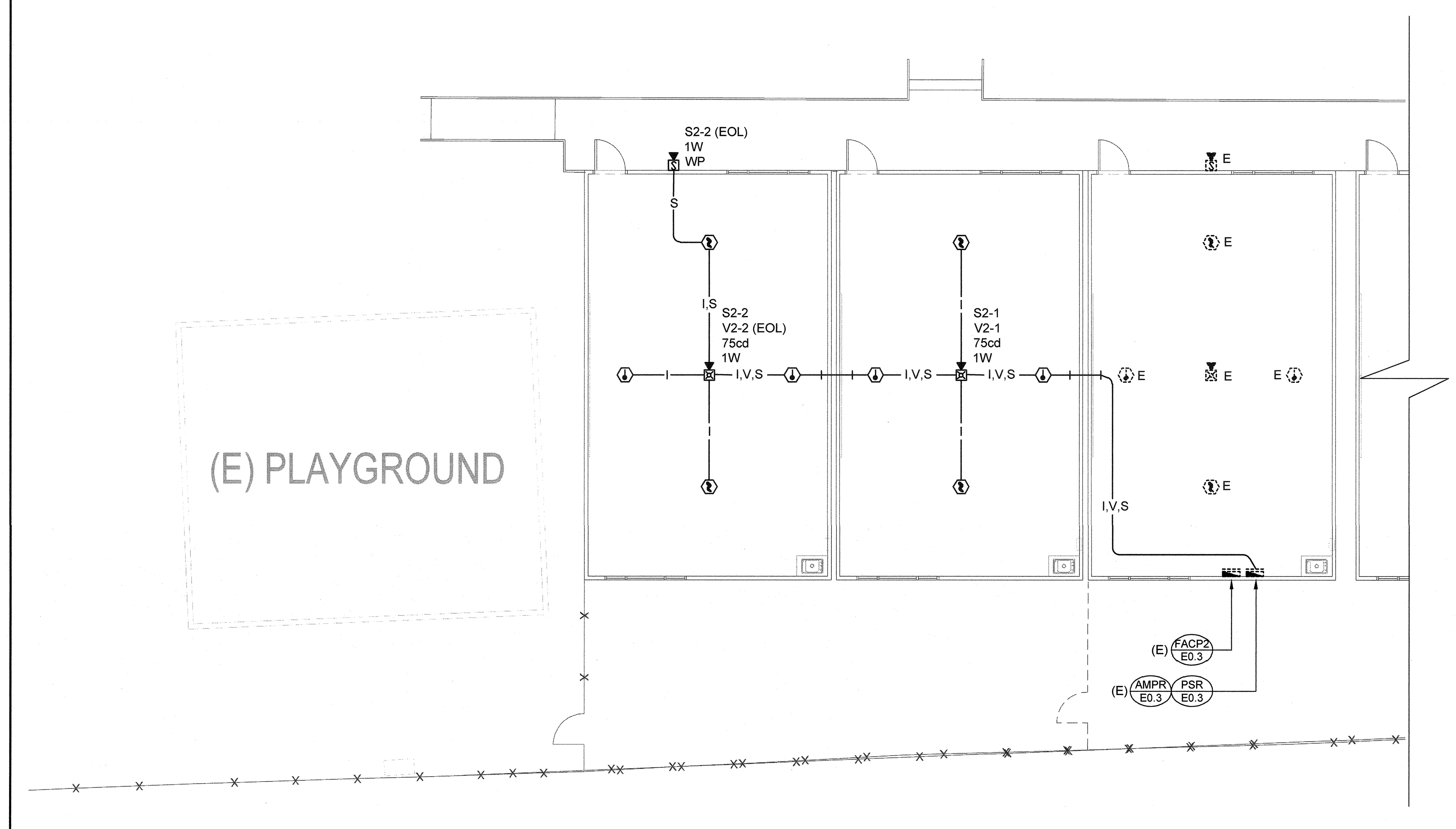
drawing title:
OVERALL SITE ELECTRICAL PLAN

drawing no.:
ES-1
drawing of

FBA Engineering / Plot Date: 4/2/2018 10:28 AM / Plotted by: William Ramirez / Drawing Location: I:\212\231\ES-2_212231.dwg



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



ENLARGED FIRE ALARM PLAN — SCALE: 1/8" = 1'-0" — 2

PLAN NOTES

1. REFER TO SHEET ES-1 FOR CONTINUATION.
2. PROVIDE 3/4" CONDUITS SLEEVES THROUGH WALL ABOVE THE CEILING FOR LIGHTING.
3. CONNECT TO PANELBOARD 100A, 2P MAIN CIRCUIT BREAKER IN RELOCATABLE BUILDING PER MANUFACTURE'S REQUIREMENTS.
4. EXISTING POWER PULLBOX TO REMAIN.
5. EXISTING SIGNAL PULLBOX TO REMAIN.
6. EXISTING SIGNAL SYSTEM CONDUIT TO REMAIN. PROVIDE ADDITIONAL INTERCOM/PA SYSTEM CABLING AS REQUIRED TO SERVE THE NEW CONSTRUCTION.
7. WHERE NEW CONDUCTOR/CABLING IS SPECIFIED IN EXISTING CONDUIT CONTAINING EXISTING CABLING, CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING WIRING IN ORDER TO PULL IN NEW PLUS REPLACEMENT OF EXISTING REMOVED.
8. INTERCEPT EXISTING CONDUITS AND EXTEND WITH NEW CONDUITS AND CONDUCTORS AS INDICATED.
9. PROVIDE NEW CONDUCTORS IN EXISTING EMPTY 2"C. AS REQUIRED. REFER TO SINGLE LINE DIAGRAM ON SHEET E0-2 FOR CONDUCTORS .
10. PROVIDE THREE (3) 2" CONDUIT SLEEVES THROUGH WALL ABOVE THE CEILING FOR COMPUTER/DATA NETWORK, PA/INTERCOM, CABLING, AND ONE(1) 1" CONDUIT SLEEVE FOR FIRE ALARM.
11. CONNECT SIGNAL SYSTEM CONDUCTORS TO RESPECTIVE SIGNAL SYSTEM DEVICES, AND/OR IDF, TERMINAL CABINET AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. REFER TO TYPICAL MODULAR BUILDING ELECTRICAL PLAN ON SHEET E0-4 FOR ELECTRICAL REQUIREMENTS WITHIN BUILDING.
12. MODIFY EXISTING INTERMEDIATE DATA FRAME "IDF" AS REQUIRED TO SERVE THE NEW CONSTRUCTION. PROVIDE ADDITIONAL EQUIPMENT AS NEEDED FOR A COMPLETE AND OPERABLE SYSTEM.
13. WALL MOUNT LIGHT FIXTURE AT A HEIGHT CENTERED BETWEEN THE TOP OF WINDOW AND UNDERSIDE OF OVERHANG.

FIRE ALARM CONDUIT SCHEDULE

SYMBOL	CONDUCTORS	SIZE
I	2#16TP UNSHIELDED TWISTED-PAIR INITIATING CIRCUIT	3/4"C.
V	2#12 VISUAL CIRCUIT	3/4"C.
2V	4#12 VISUAL CIRCUIT	3/4"C.
I,2V,2S	MULTIPLE CONDUCTORS	1"C.
I,V,S	MULTIPLE CONDUCTORS	1"C.
S	2#18 SHIELDED TWISTED -PAIR	3/4"C.
2S	4#18 SHIELDED TWISTED -PAIR	3/4"C.

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A# 03-118957
APR 0 3 2018

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DUNSMORE ELEMENTARY SCHOOL
RELOCATABLE CLASSROOMS - PHASE 2

GLENDALE UNIFIED SCHOOL DISTRICT
4717 DUNSMORE AVE.
LA CRESCENTA, CA 91214

owner

tBP project number : 20967.02
file name:
drawn by: checked by:
date: APRIL 3, 2018
Rev: date: description:

drawing title:
ENLARGED SITE ELECTRICAL PLAN

drawing no.:
ES-2
drawing of

MODTECH DESIGN MT-2440

PC 04-101419

RELOCATABLE CLASSROOM BUILDINGS

BUILDING SIZE: 24'x40'

FOR

WILLIAMS SCOTSMAN

STOCKPILE

MODTECH JOB #4223 (X 7 BLDGS)

MODTECH JOB #4225 (X 20 BLDGS)

MODTECH JOB #4237 (X 50 BLDGS)

(X 23 T.B.D.)

CBC 1998 PC

BUILDING DATA

STRUCTURAL DESIGN: RIGID FRAME
TYPE OF CONSTRUCTION: V-N
WIND LOAD (EXP C): 80 MPH
FLOOR LIVE LOAD: 50 PSF
ROOF LIVE LOAD: 20 PSF

OCCUPANCY: 24'x40' CLASSROOM: E-2

BUILDING AREA:
24'x40' BUILDING - 960 SF

APPLICABLE CODES

- TITLE 24, CCR, PART 2, 1998 CBC (97 UBC W/98 CA AMENDMENTS)
- 1997 UBC & 1998 CA AMENDMENTS (98 CBC - PART 2, TITLE 24, CCR)
- 1996 NEC & 1998 CA AMENDMENTS (98 CEC - PART 3, TITLE 24, CCR)
- 1997 UMC & 1998 CA AMENDMENTS (98 CMC - PART 4, TITLE 24, CCR)
- 1997 UPC & 1998 CA AMENDMENTS (98 CPC - PART 5 TITLE 24, CCR)
- 1997 UFC & 1998 CA AMENDMENTS (98 CFC - PART 9, TITLE 24, CCR)
- 1998 CA BUILDING STANDARDS CODE
- TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

LEGEND

SYMBOL	DESCRIPTION
(detail symbol)	DETAIL (1) ON SAME SHEET AS SYMBOL
(detail symbol)	DETAIL (1) ON SHEET (2)
1	KEY NOTE (1) ON SAME SHEET AS SYMBOL
(section symbol)	SECTION "A" ON SHEET (2)
1 (triangle)	REVISION/CHANGE IN DRAWING. (1) IS FIRST REVISION
CLOUD	HIGHLIGHTS CHANGED AREA
1 (circle)	DOOR REFERENCE
A	WINDOW REFERENCE
EL	ELECTRICAL ITEM(S) SEE ELECTRICAL DRAWINGS
HV	HEATING/VENTILATING & AIR CONDITIONING ITEM(S) SEE MECHANICAL DRAWINGS
PLG	PLUMBING ITEM(S) SEE MECHANICAL DRAWINGS
STR	STRUCTURAL ITEM(S) SEE STRUCTURAL DRAWINGS
FIN	FINISH ITEM(S) SEE FINISH SCHEDULE
RAMP	RAMP - SEE RAMP DRAWINGS

ABBREVIATIONS

AGC = ABOVE GRADE CONCRETE
BGC = BELOW GRADE CONCRETE
DIA = DIAMETER
CLR = CLEAR
GA = GAUGE
SIM = SIMILAR
MAX = MAXIMUM
MIN = MINIMUM
NIC = NOT IN CONTRACT
NTS = NOT TO SCALE
OC = ON CENTER
OD = OUTSIDE DIAMETER
OSB = ORIENTED STRAND BOARD
ROH = ROOF OVERHANG
SIM = SIMILAR
STS = SELF TAPPING SCREW
STSMS = SELF TAPPING SHEET METAL SCREW
TYP = TYPICAL
UON = UNLESS OTHERWISE NOTED

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

SHEET INDEX

ARCHITECTURAL

A.0	TITLE SHEET
A1.0	FLOOR PLAN 24'X40'
A2.0	ROOF PLAN (DUAL PITCH) 24'X40'
A3.0	EXTERIOR ELEVATIONS (DUAL PITCH) 24'X40' W/ FASCIA
A4.0	INTERIOR ELEVATIONS 24'X40'
A5.0	DOOR, WINDOW, FINISH, HARDWARE SCHEDULES
A6.0	ARCHITECTURAL DETAILS (WOOD SIDING)
A6.1	ARCHITECTURAL DETAILS (WOOD SIDING)
A6.0M	ARCHITECTURAL DETAILS (METAL SIDING)
A7.0	REFLECTED CEILING PLAN (24'X40') (12 LIGHTS)
A7.1	REFLECTED CEILING DETAILS

STRUCTURAL

F2.01	FUNDATION PLAN AGC-50, 50+20 PSF
F2.02	FUNDATION DETAILS AGC-100, 125 PSF
F2.11	FUNDATION DETAILS ABOVE GRADE CONC.
F3.01	FUNDATION PLAN BGC-50, 50+20 PSF
F3.02	FUNDATION PLAN BGC-100, 125 PSF
F3.11	FUNDATION DETAILS BELOW GRADE CONC.
F1.0	FOUNDATION PLAN (24 x 40) 50 PSF LL (WOOD)
F2.01	FOUNDATION DETAILS (WOOD)
S1.0	FLOOR FRAMING PLAN 50 PSF LL
S1.2	FLOOR FRAMING DETAILS (TYPICAL)
S2.0	ROOF FRAMING PLAN (DUAL PITCH) W/ FASCIA
S2.1	ROOF FRAMING DETAILS (TYP.)
S3.0	STRUCTURAL ELEVATIONS & DETAILS (DUAL PITCH)
S4.0	WALL FRAMING (WOOD)
S5.0	WALL FRAMING DETAILS (WOOD)
S5.1	WALL FRAMING DETAILS (WOOD)

MECHANICAL

M1.0	MECHANICAL (HVAC) PLAN 24'X40' -3 1/2 TONS

ELECTRICAL

E1.0	ELECTRICAL PLAN 24'X40'

RAMP

R1.00	RAMP/LANDING PLAN W/ 11' RAMP
R1.02	RAMP/STAIRS DETAILS

REVISED SEP 1 2 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104510

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 118937 APR 0 3 2018

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 101982

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 101984

REVISIONS		
1	DT.	ADD FND. SHEETS F2.01, F2.02, F2.11, F3.01, F3.02, F3.11
2		
3		
4		
5		

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architect's Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

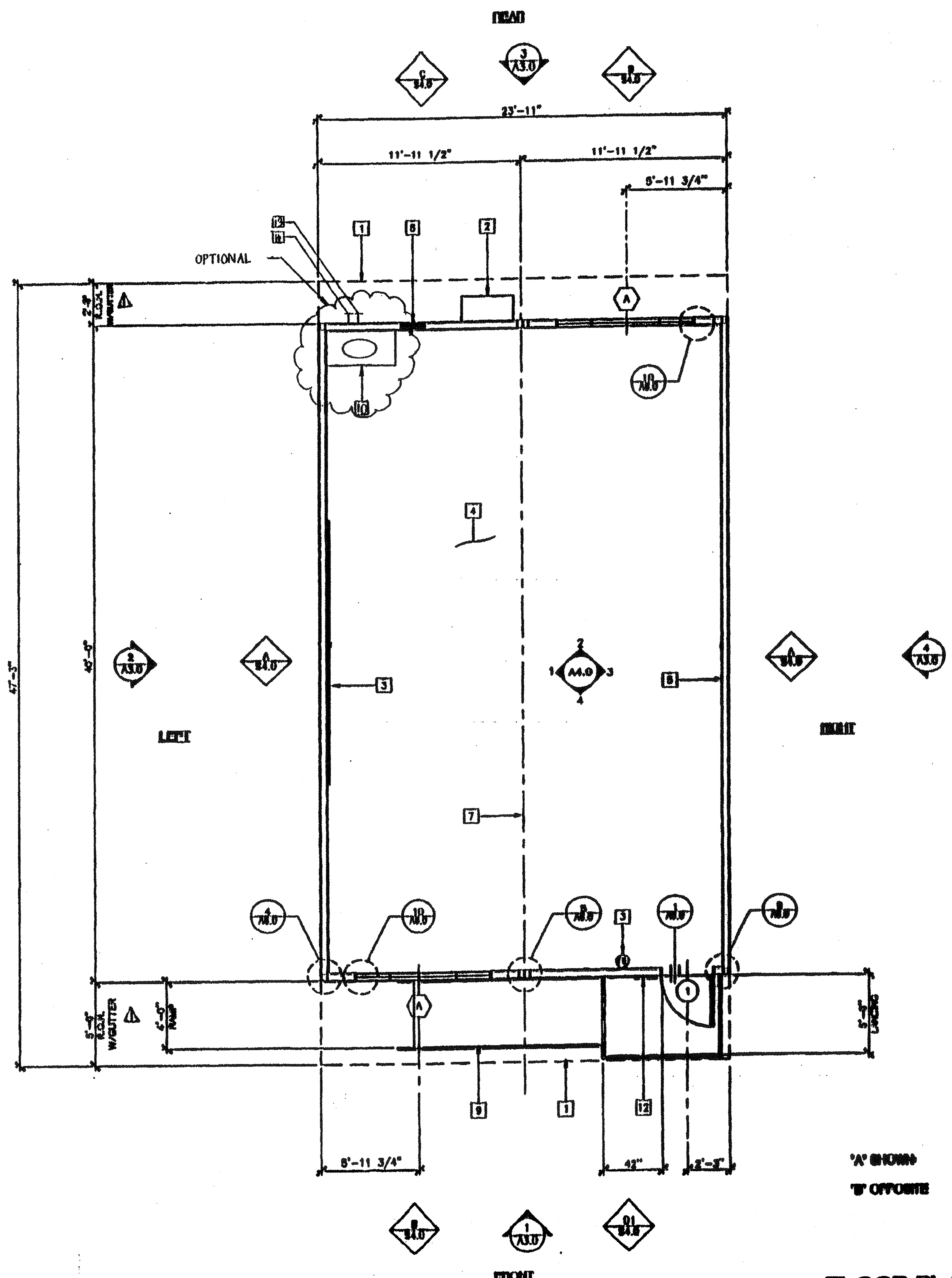
PROJECT NUMBER:
WILLIAMS SCOTSMAN

COVER SHEET

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

MODTECH Index No.
A0.01

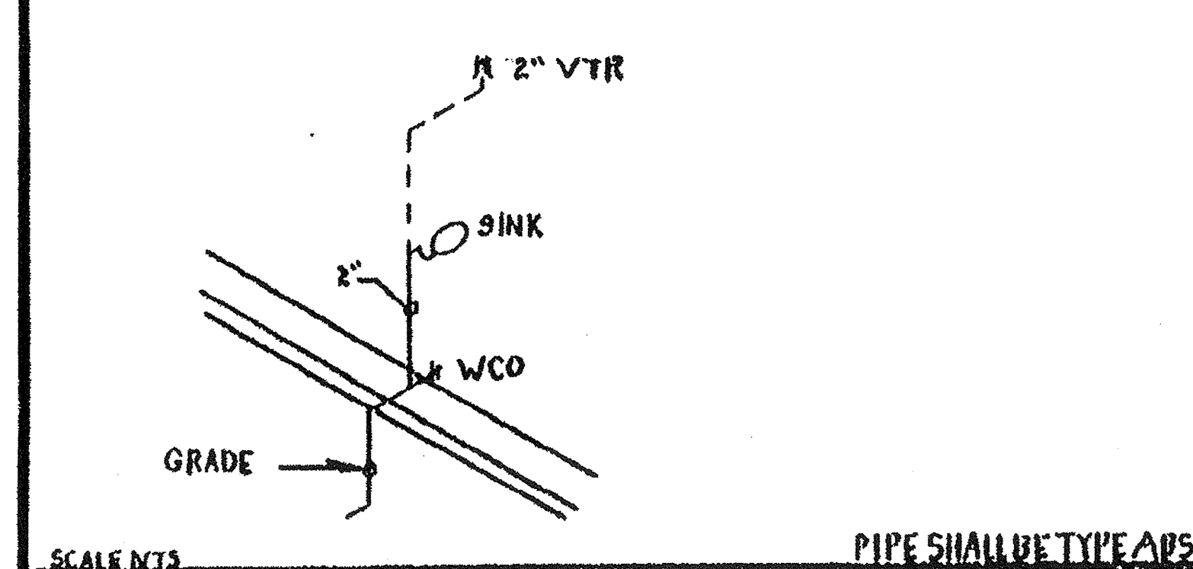
PROJECT NUMBER:



FLOOR PLAN

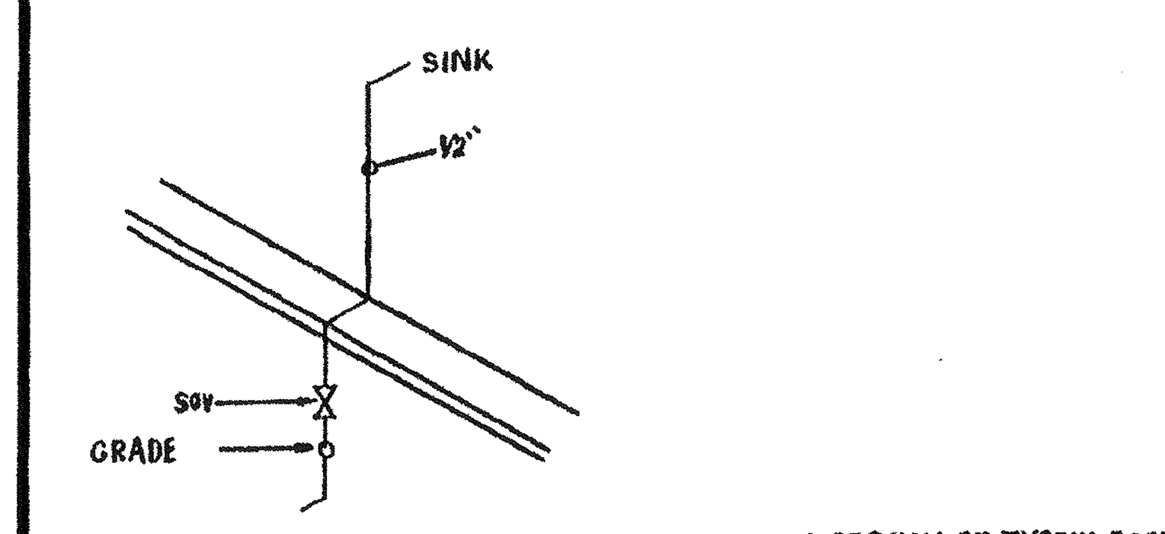
24x40

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



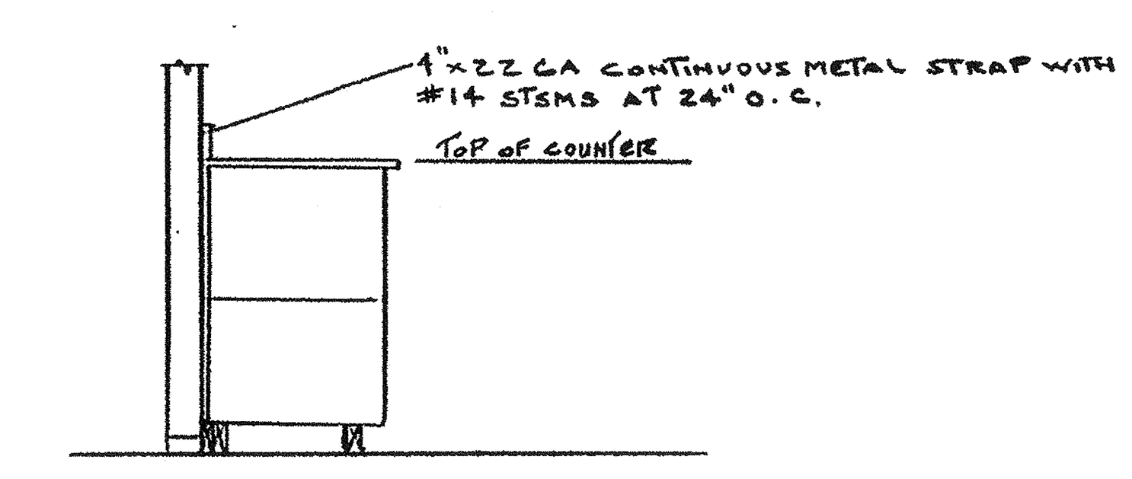
PIPE SHALL BE TYPE ABS

SINK CABINET WASTE | 1



PIPE SHALL BE TYPE 'L' COPPER

SINK CABINET COLD WATER SUPPLY | 2



CABINET ATTACHMENT

KEY NOTES

1. ROOF OVERHANG
2. HVAC UNIT (HV)
3. 2 – 8'x4' MARKER BOARDS (SEE SPEC'S FOR TYPE)
4. FINISH FLOORING (FIN)
5. INTERIOR FINISH (FIN)
6. FIRE EXTINGUISHER – 5 LBS DRY CHEMICAL WITH 2A-10BC UL RATING WALL MOUNTED BRACKET, HANDLE AT 48" AFF
7. MODLINE (M)
8. ELECTRICAL PANEL
9. RAMP/LANDING (RMP)
10. SINK CABINET OPTIONAL: (LOCATION MAY VARY)
    LAV: KOHLER # K-2867
    FAUCET CHICAGO 333-669
    BUBBLER - JSB-10
11. NOT USED
12. SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY, SEE A5.0.
13. COLD WATER SUPPLY
14. WASTE AND VENT P.O.C.

NOTES

1. METAL TAG ON ALL MODULES. MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING SHOW D.S.A. APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER.
2. METAL TAG MIN. 3 1/2"X1 1/2" METAL I.D. W/
   1. DESIGN WIND LOAD
   2. DESIGN ROOF LOAD
3. PROVIDE MIN. 3 1/2"X1 1/2" METAL TAG INSTALLED INSIDE THE ELECTRICAL PANEL SHOWING OPSC NUMBER AND DSA NUMBER.

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1	CLARIFY OVERHANGS
2	
3	
4	
5	

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PC-04
101419

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

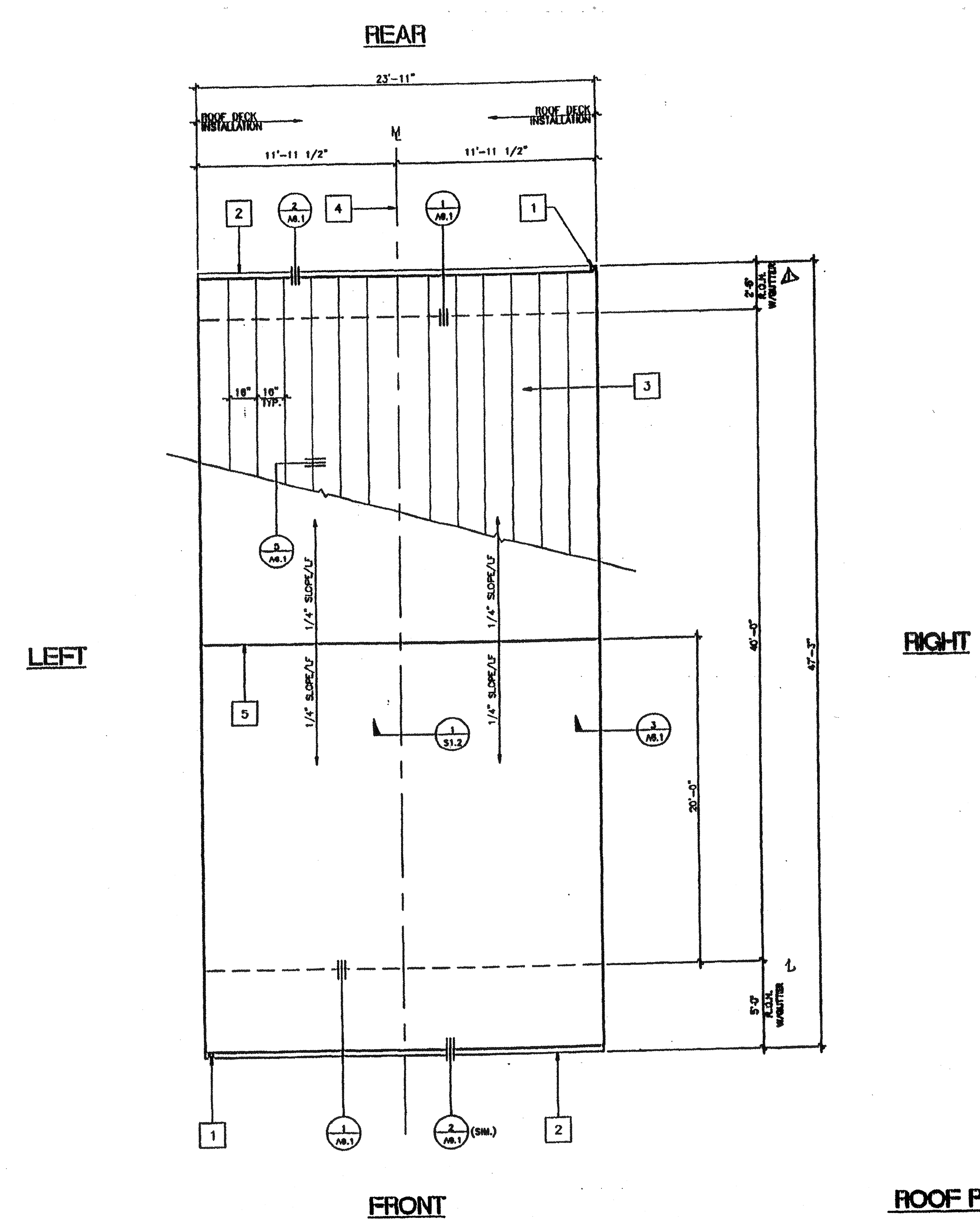
PROJECT NUMBER: 4151
WILLIAMS SCOTSMAN

FLOOR PLAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

A1.0

PROJECT NUMBER: 4097



ROOF PLAN (DUAL SLOPE) (24'X40')

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

KEY NOTES

1. DOWNSPOUT (TYPICAL 3" X 2" X 26GA)
2. CONTINUOUS GUTTER 26GA.
3. 22GA. MIN. INTERLOCKING ROOF PANELS (TYP)
4. MODLINE
5. RIDGELINE

NOTES

1. BUILDING HOUSING GROUP E OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A. C.B.C. CLASS A

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REVISED DEC 9 1999

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1	CANOPY OVERHANGS

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MODTECH INC.
2830 BARRETT AVENUE PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151
WILLIAMS SCOTSMAN

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DRAWN BY: WQ DATE: 3/6/02
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ROOF PLAN

A2.0

FILE PATH: 2440-0-A2-0.DWG

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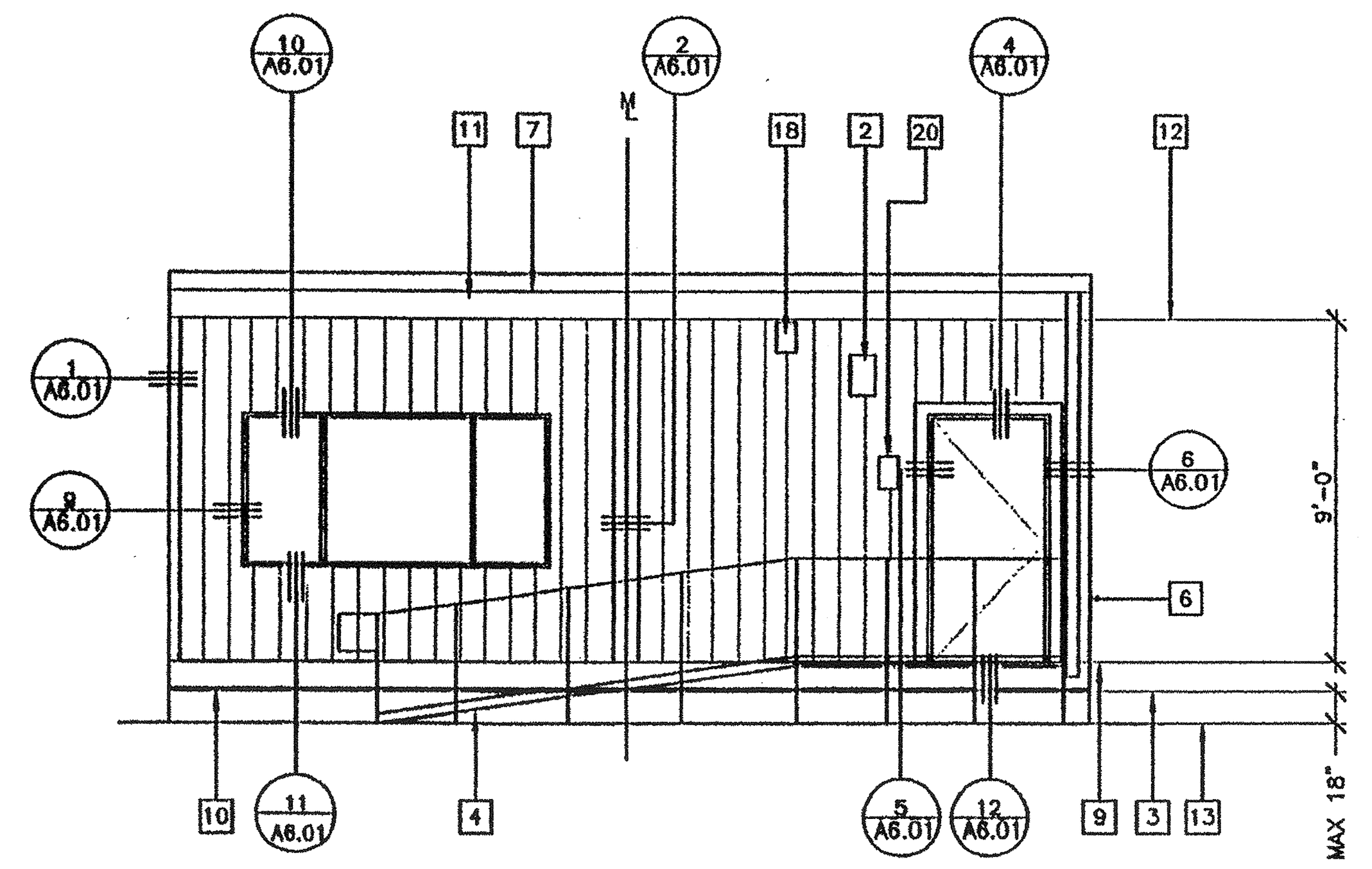
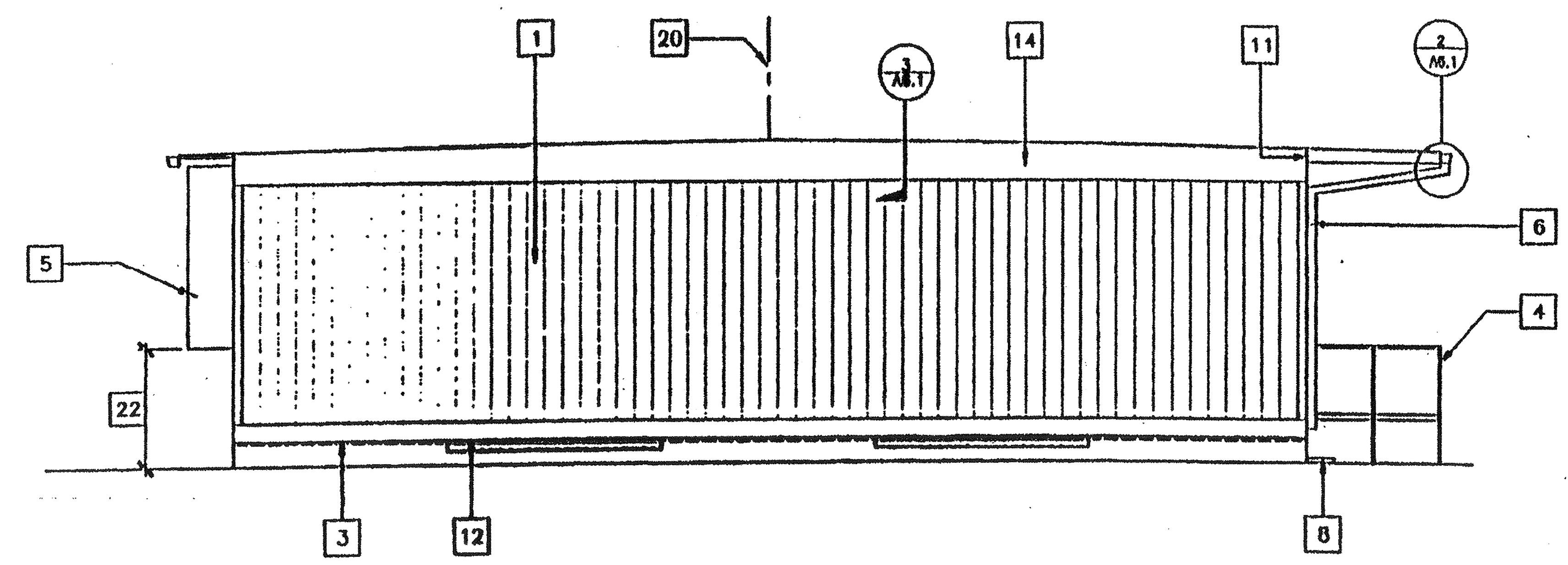
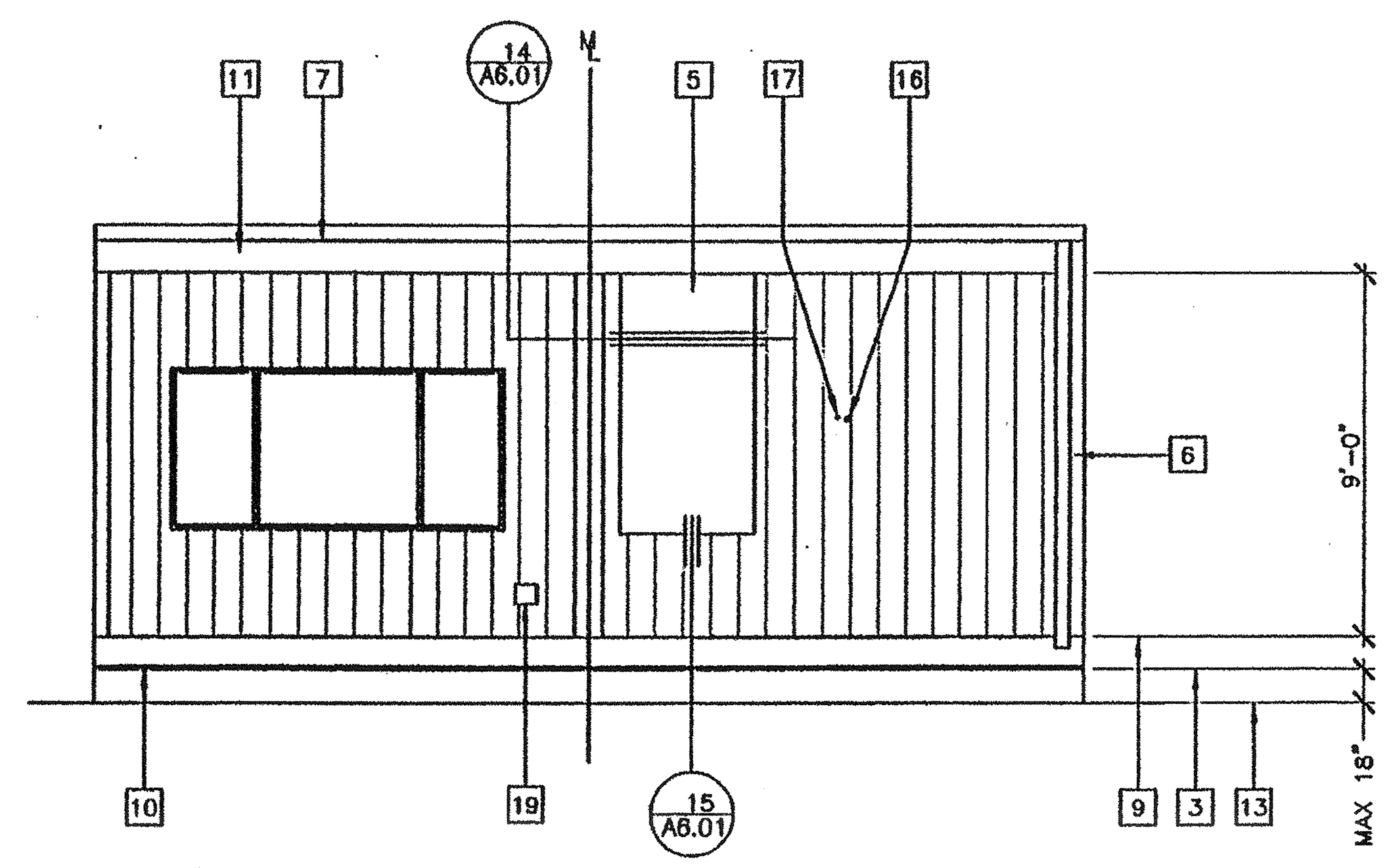


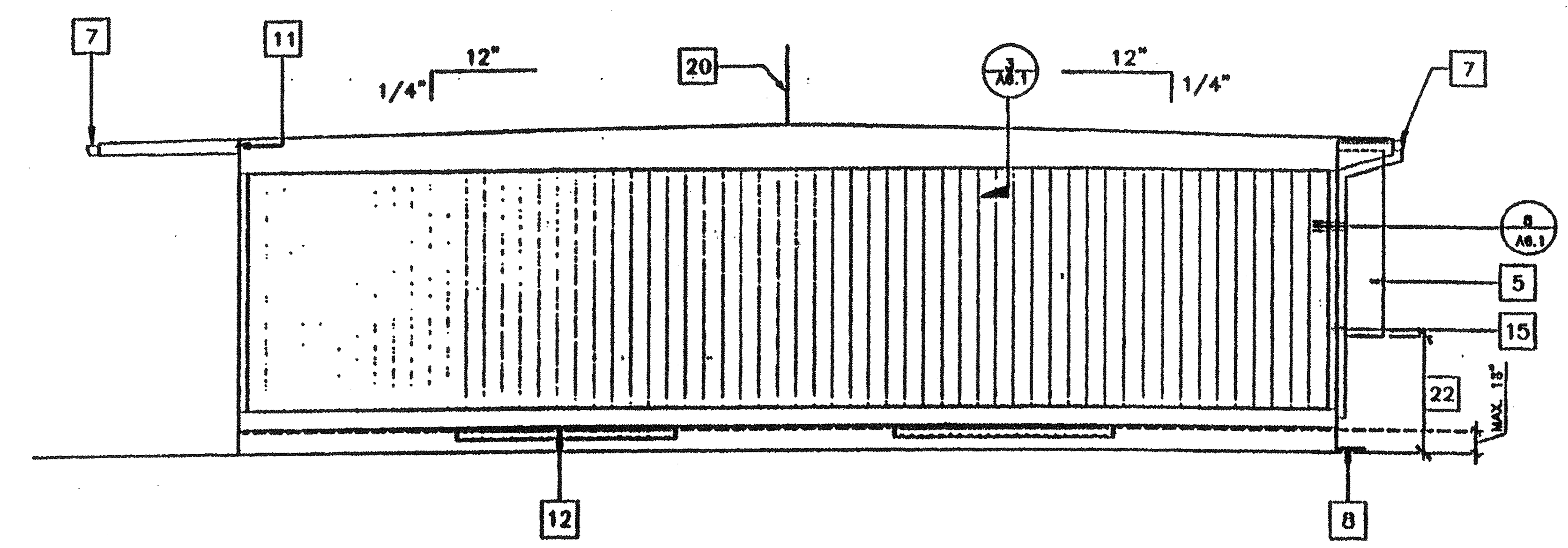
① FRONT ELEVATION 1/4" = 1'-0"



② LEFT ELEVATION 1/4" = 1'-0"



③ REAR ELEVATION 1/4" = 1'-0"



④ RIGHT ELEVATION 1/4" = 1'-0"

"A" = SHOWN
"B" = OPPOSITE

KEY NOTES

1. TYPICAL EXTERIOR SIDING (SEE A5.0)
2. EXTERIOR LIGHT FIXTURE (SEE SPEC'S)
3. TOP OF SKIRTING
4. RAMP AND LANDING SEE SHT. R-1
5. HVAC UNIT. SEE (HV)
6. DOWNSPOUT (TYP.) FOR (2). FASTEN TO BLD'G. TYP 3 PLACES (SEE 8/A6.1)
7. CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOWN ON ROOF PLAN) SEE A2.0
8. SPLASH BLOCK (BY OTHERS)
9. FINISH FLOOR LINE
10. BOTTOM FLANGE OF FLOOR BEAM
11. ROOF HEADER
12. VENT. SEE FOUNDATION PLAN
13. FINISH GRADE
14. ROOF BEAM SEE (STR)
15. COLUMN SEE (STR)
16. ELECTRICAL STUB-OUT SEE (EL)
17. GROUND STUB-OUT SEE (EL)
18. J BOX FOR EXT. FA HORN SEE (EL)
19. NEMA 6" X 6" GUTTER BOX SEE (EL)
20. RIDGE
21. NOT USED
22. IF HVAC UNIT IS LOCATED IN ANY PATH OF TRAVEL OR CIRCULATION AREA AND HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" THEN PROTECTION MUST BE PROVIDED.

NOTES

1. SEE FOUNDATION PLAN FOR SIZE AND LOCATION OF UNDER FLOOR VENTS.

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MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
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PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

EXTERIOR ELEVATIONS

DRAWN BY: WQ
DATE: 3/6/02
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DATE:
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A3.0

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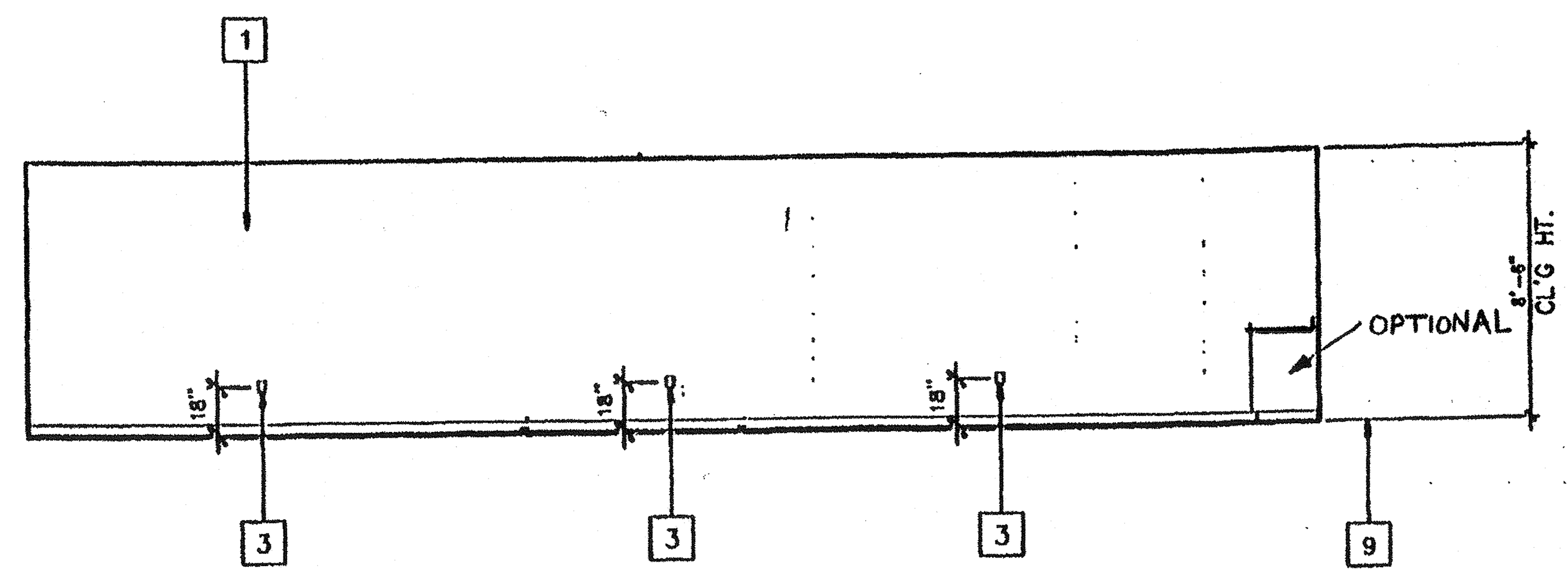
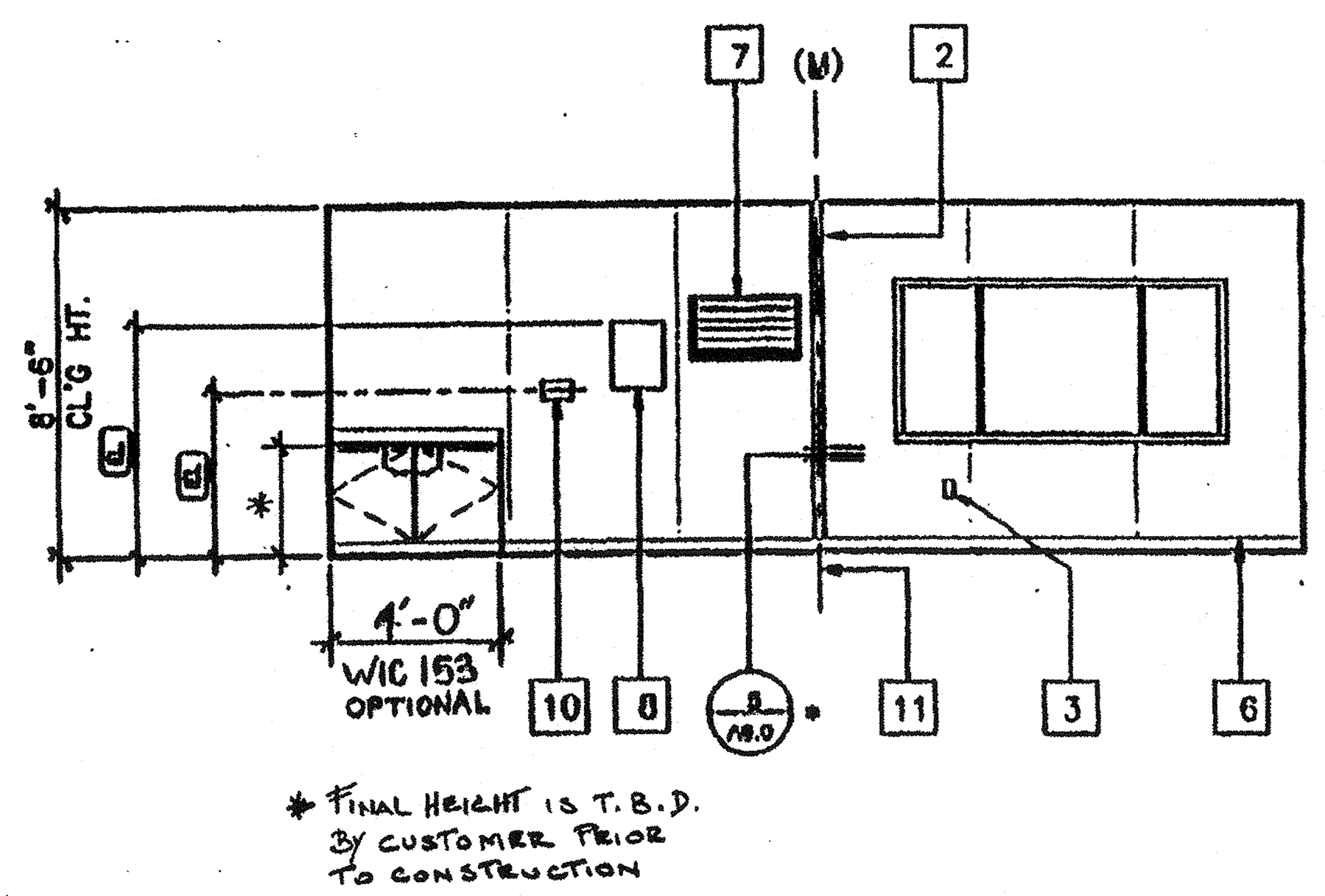
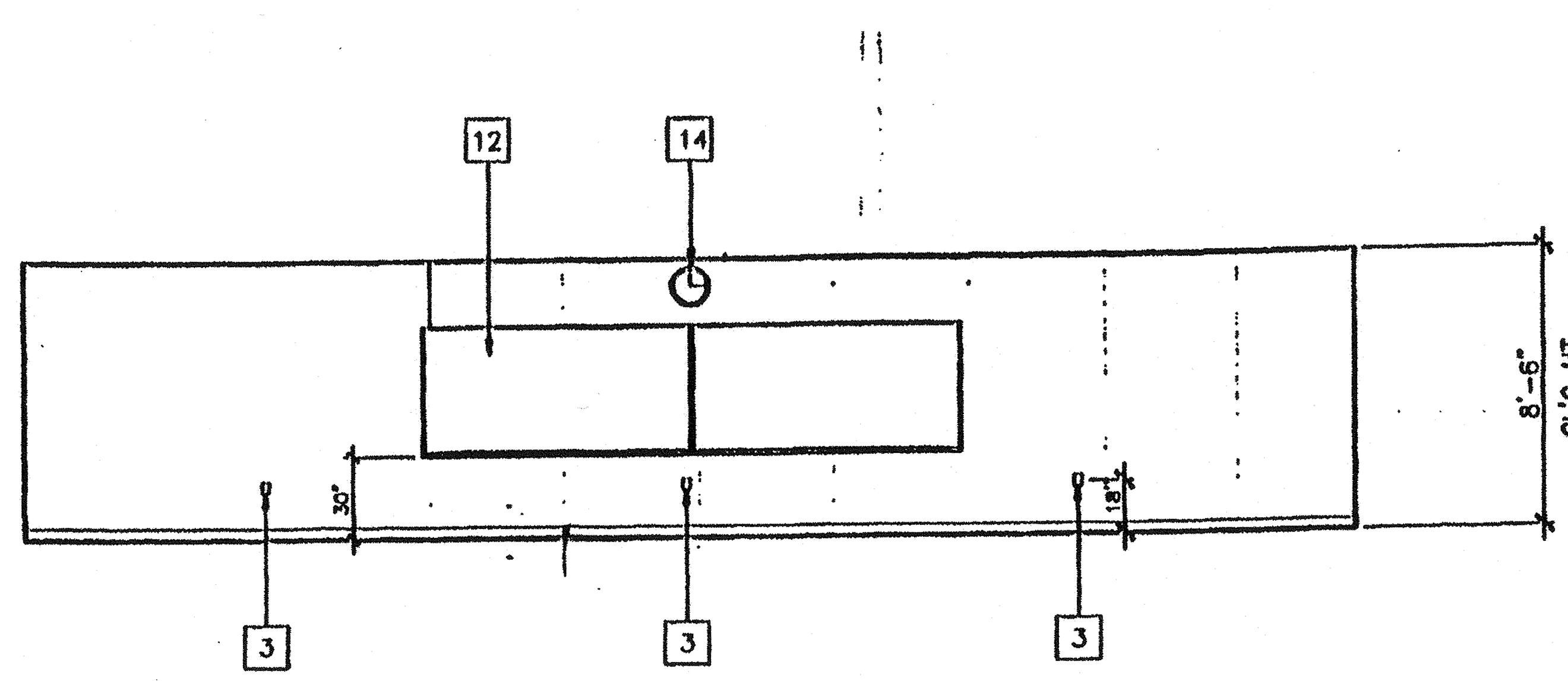


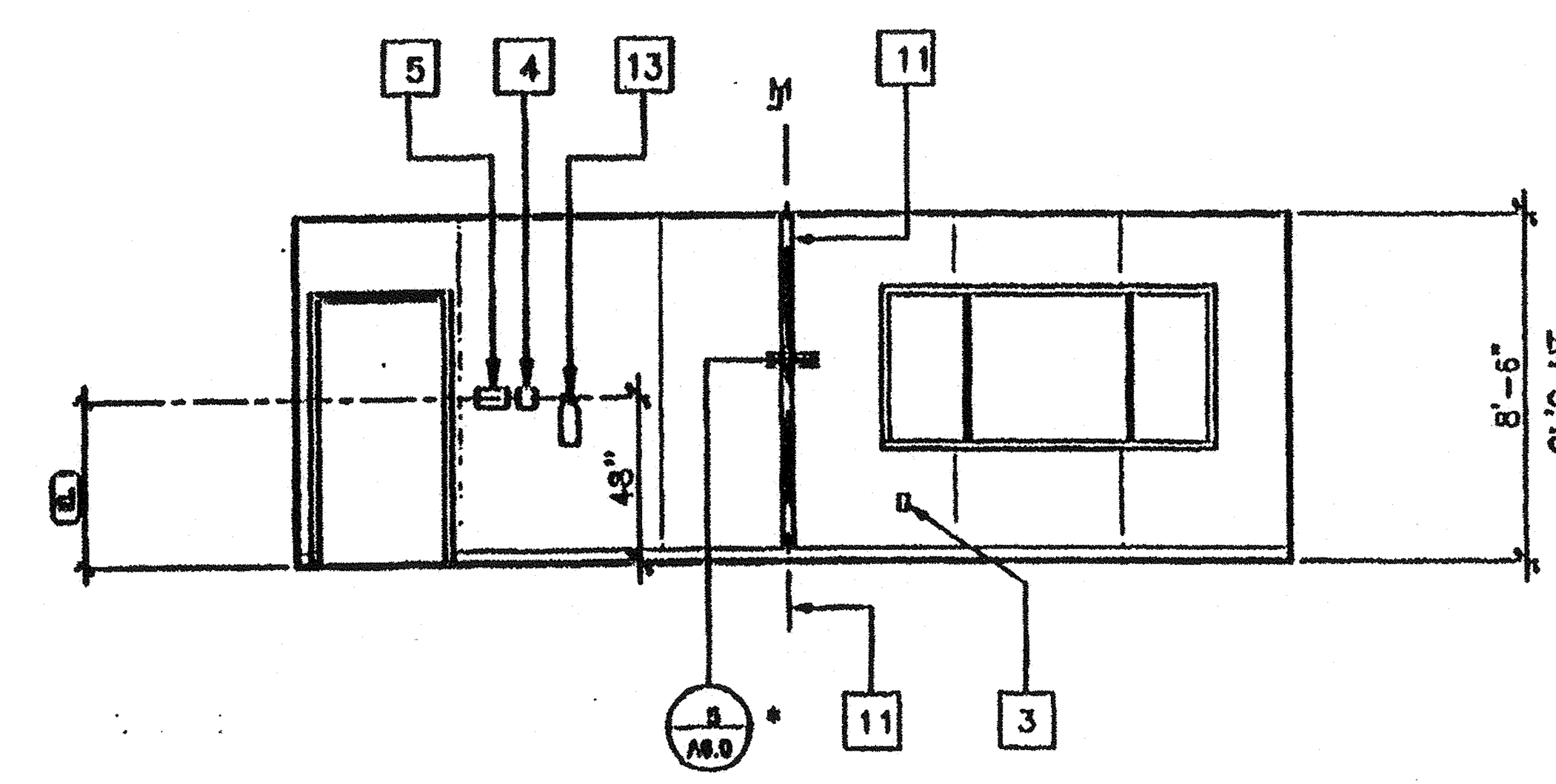
① LEFT ELEVATION



② REAR ELEVATION



③ RIGHT ELEVATION



④ FRONT ELEVATION

"A" = SHOWN
"B" = OPPOSITE

INTERIOR ELEVATIONS

24' X 40'

SCALE 1/4"=1'-0"

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KEY NOTES

1. [illegible]
2. CLOSURE AT MODULAR JOINT
3. FOURPLEX WALL RECEPTACLE SEE (EL)
4. J BOX FOR INT FA PULLSTATION SEE (FT)
5. LIGHT SWITCH SEE (EL)
6. TOP SET BASE (TYPICAL) SEE FINISH SCHED.
7. RETURN AIR GRILL SEE (HV)
8. ELECTRICAL PANEL SEE (EL)
9. LINE OF FINISH FLOOR
10. THERMOSTAT SEE (HV)
11. MODULAR JOINT
12. 8040 MARKBOARD. TYPICAL FOR (2) SEE SPEC'S
13. FIRE EXTINGUISHER: 5LBS. DRY CHEMICAL WITH 2A-10BC U.L. RATING ON WALL MTD. BRACKET, HANDLE AT 48" A.F.F.
14. 12" DIA. ELECTRIC CLOCK. SEE (II)

NOTES

1. FOR MOUNTING HEIGHTS SEE (EL).
2. *DETAIL 5/A6.0 FOR WOOD STUDS. SEE ALT. DET. 5/A6.0M FOR USE WITH METAL STUDS.

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PC-2440-0

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MODTECH INC.
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FAX (909) 940-0427

PROJECT NUMBER: 4151
WILLIAMS SCOTSMAN

INTERIOR ELEVATIONS

DRAWN BY: WQ
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DATE:

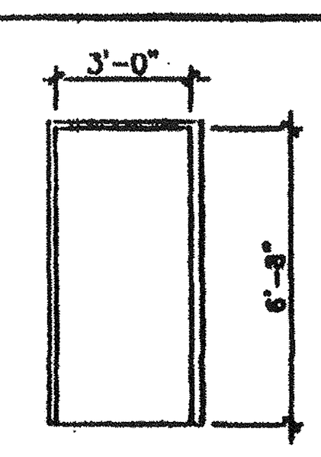
MODTECH Index No.
A4.0

DOOR SCHEDULE

DOOR NUMBER	DOORS: FRAME OPENING SIZE	MATERIAL	TYPE	FIRE RATING	HARDWARE SET NO.	QUANTITY	FRAMES: MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT	NOTE NO.
1	3'-0" X 6'-8"	HM	A	NA	1	1	HM	7/A6.0	8/A6.0	1/A6.0	5-1/8"	

HM — HOLLOW METAL
AL — ALUMINUM
SSL — STAINLESS STEEL
STL — STEEL
WWF — WINDOW WALL FRAME
SC — SOLID CORE WOOD
HC — HOLLOW CORE WOOD
PLT — SOLID CORE WOOD W/LAMINATED PLASTIC FACES

DOOR ELEVATIONS



TYPE A

DOOR NOTES

1. DOOR HANDLES FOR LOCKSETS TO BE CENTERED @ 38" AFF & DEADBOLTS @ 44" AFF.
2. HARDWARE TO BE OPENABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
3. ALL DOORS SHALL BE 1-3/4" THICK UNO
4. DOUBLE LETTERS IN SCHEDULE, INDICATES A PAIR OF DOORS.
5. SAFETY GLASS, CLEAR
6. WIRE GLASS
7. UNDERCUT DOOR
8. FIXED LOUVER
9. FUSIBLE LINK LOUVER
10. VISION PANEL
11. CLOSURE SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 8.5 LBS @ EXTERIOR DOORS AND 5.0 LBS @ INTERIOR DOORS.

HARDWARE SCHEDULE

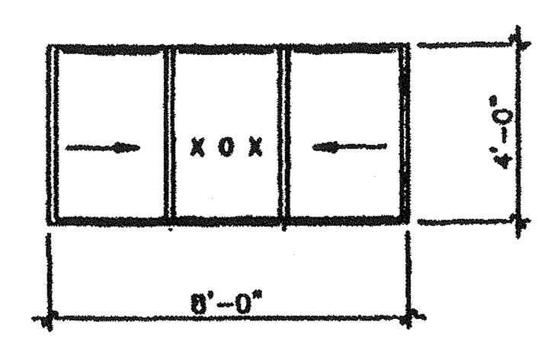
HARDWARE SET #1

LOCKSET	— SCHLAGE D70PD, RHODES LEVER, OR EQUAL
BUTTS	— 1-1/2 PAIR HAGER 1279 BB 4-1/2 x 4-1/2 NRP 26D OR EQUAL.
CLOSER	— NORTON 8500 DA / LCN 1460 OR EQUAL.
THRESHOLD	— PEMCO 271A OR EQUAL.
DOOR BOTTOM	— PEMCO 216AV OR EQUAL.
WEATHERSTRIP	— PEMCO 299AV OR EQUAL.
DOOR STOP	— QUALITY #44 OR EQUAL

WINDOW SCHEDULE

AMT.	TYPE	WIDTH	HEIGHT	FINISH	WIN. NO.	GLASS TYPE
2	1	8'-0"	4'-0"	ANODIZED	A	7/32" MIN. SOLAR GRAY 46%, SINGLE GLAZE

WINDOW ELEVATIONS

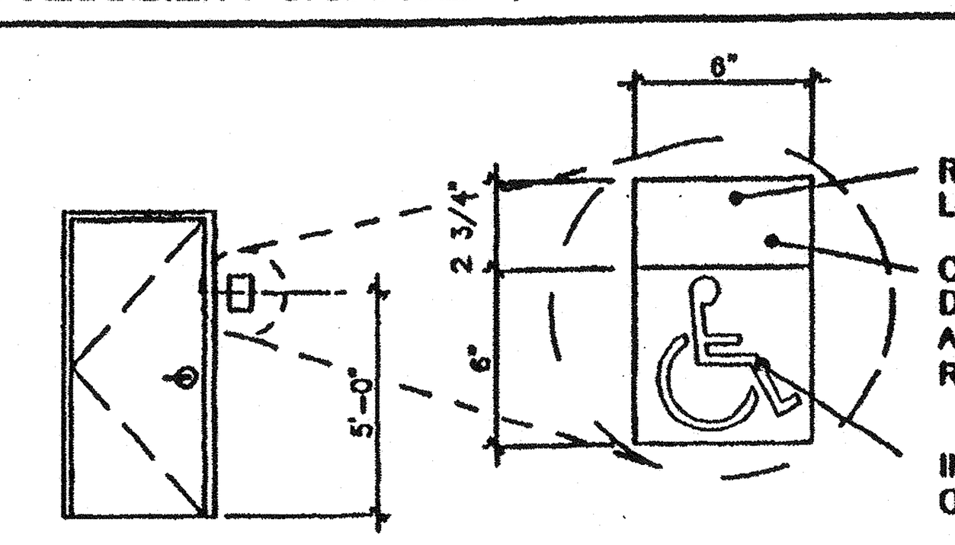


TYPE 1

WINDOW NOTES

1. 8040 XOX ANODIZED ALUMINUM GLAZING: EXTERIOR LITE 3/16" MIN. TEMPERED GLASS OF SOLAR GRAY WITH A LITE TRANSMISSION FACTOR OF 46%. 1/4" ALUMINUM SPACER. INTERIOR LITE – 1/8 MIN. CLEAR TEMPERED. ALL OPERABLE SASH SHALL HAVE ALUMINUM SSCREENS.

ACCESSIBILITY SIGNAGE (BY DISTRICT)



ENTRY DOOR FROM EXTERIOR VIEW

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS: FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HEIGHT	REMARKS
1	CLASSROOM	A	D	F	F	F	F	L	8'-6"	SEE SIGNAGE

A – CARPET PER STATE OF CALIF SPEC 7220-51E-04 COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN WITH 4" TOPSET BASE.
B – NOT USED
C – NOT USED
D – 4" BURKE
E – 6" BRIGANTINE OR SANDOVAL
F – 1/2" VINYL TACKBOARD CLASS-1 OVER 1/2" GYP. BOARD BACKING
G – 1/2" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
H – 3/8" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
I – 1/2" GYP. BOARD TAPE TEXTURE PAINTED WITH PAINTED FINISH
J – 3/8" GYP. BOARD TAPE TEXTURE PAINTED WITH PAINTED FINISH
K – 1/2" MARLITE OVER 1/2" W.R. GYP. BOARD
L – ACCOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)

FINISH NOTES

1. SUB-FLOOR PREP:

PREPARATION FOR SUB FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB FLOOR IS 2.4.1 PLYWOOD. OUTER PLY IS PLUGGED AND TOUCH SANDED. ANY DEFORMATIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTER. THE JOINT AT THE MODULEJOINING SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.

NOTES

1. ALL FINISHES SHALL COMPLY WITH C.B.C. CHAPTERS 3,6,7,8, & 10 & C.F.C. & TITLE 19 C.C.R.
2. FOR DOOR AND DOOR FRAME DATA SEE SPECIFICATIONS ON SHEET A8.0.

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1			
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PC-04
101419
DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

SCHEDULE SHEET

DRAWN BY: WQ
DATE: 3/6/02
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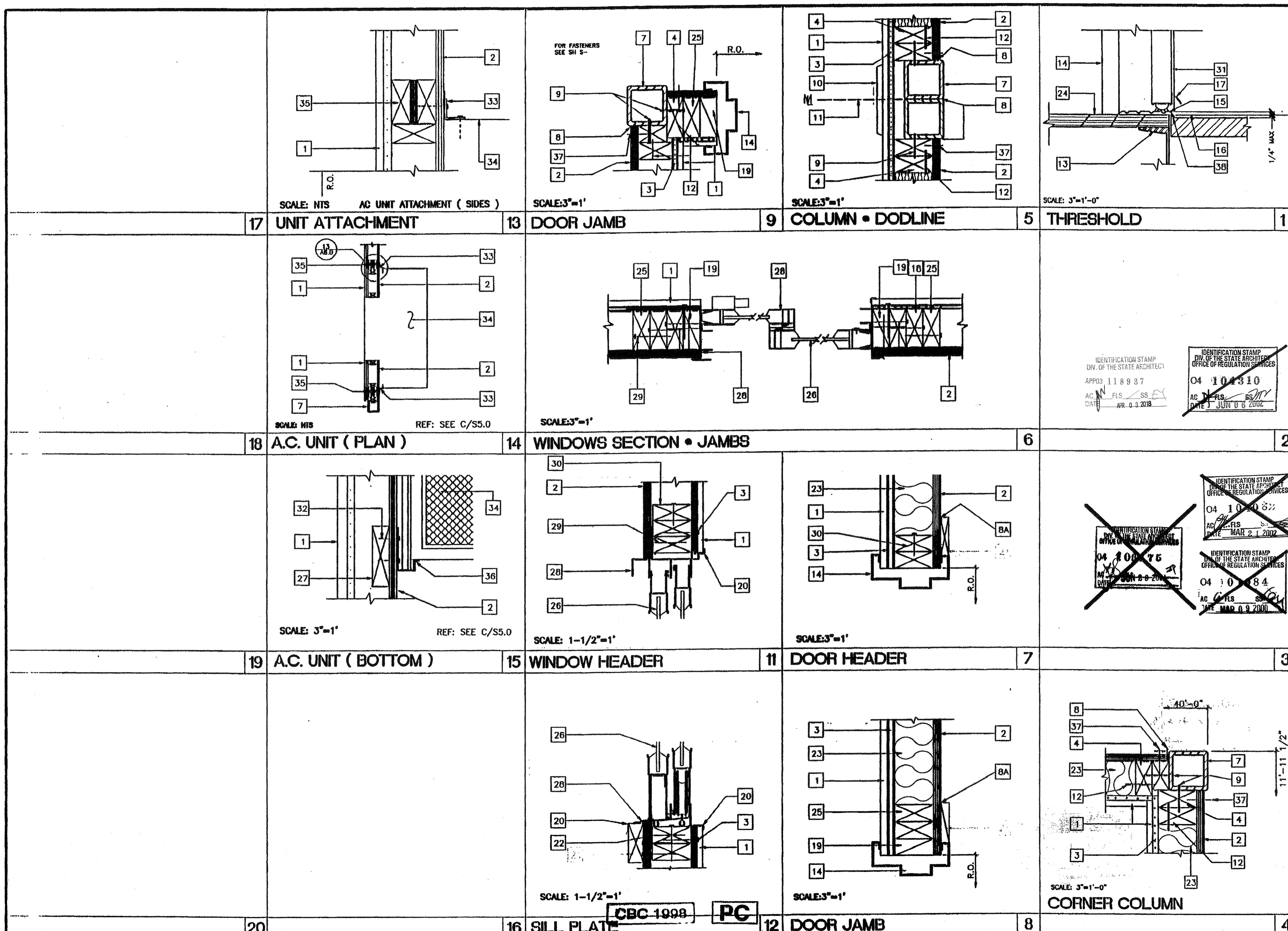
DATE:

MODTECH Index No.
A5.0

PC-04-101419 PROJECT NO. 4097



KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHEDULE)
2. TYPICAL EXTERIOR FINISH
3. 1/2" GYPSUM BOARD BACKING W/ 7d COOLER NAILS AT MAX 7" O.C. TYP. AT LA. STUD
4. 2X4 STUD TYP. AT 16" O.C. MAX.
5. NOT USED
6. 26GA SHEET METAL FLASH 2" X 4" X LENGTH
7. TUBE STEEL COLUMN SEE [STR]
8. NOT USED
9. #10 S.T.S.M.S. AT MAX. 24" O.C. (ALT. HILTI 0.145 SHOT PIN) 2X FILLER TO COLUMN
10. VINYL CLOSURE
11. MODULE JOINT
12. 16d AT 24" O.C. FACE NAIL OR 16d AT 12" O.C. TOE NAIL (SEE SHEET S5.1)
13. FLOOR BEAM SEE [STR]
14. PRESSED STEEL FRAME (K.D. TYPE SEE A5.0)
15. ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16. FINISH LANDING SEE FLOOR PLAN AND FOUNDATION FOR TYPE AND FINISH
17. DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18. (2) 2X4 KING STUD (SEE SHEET S5.0)
19. 2X4 TRIMMER (SEE SHEET S5.0)
20. "Z" MOLD 26GA
21. NOT USED
22. (2) 2X4 SILL PLATE W/ 16d AT 16" O.C.
23. INSULATION (SEE SPECS. FOR SIZE AND TYPE)
24. FINISH FLOORING (SEE FINISH SCHEDULE SHEET A5.0)
25. 2X4 JAMB STUDS (SEE SHEET S5.0) DETAILS FOR NUMBER OF STUDS REQUIRED AND NAILING SCHEDULE FOR NAILING
26. WINDOW GLAZING (SEE WINDOW SCHEDULE SHEET A5.0)
27. 2X6 LET IN (SEE WALL FRAMING SHEET S5.0)
28. ALUMINUM WINDOW FRAME WITH NAIL-ON FINISH. INSTALL W/ MIN. 3" BLDG. PAPER BETWEEN FINISH AND FRAMING. INSTALL WITH 8d AT MAX. 24" O.C.
29. 16d BOX STAGGERED AT MAX 24" O.C.
30. HEADER 12/S5.0
31. DOOR (SEE DOOR SCHEDULE) A5.0
32. 6-3/8"ø X 2" GALVANIZED LAG SCREWS
33. L 1-1/2"x1-1/2"x1/8"x18" LONG (BY HVAC MFR.) ATTACHED TO A/C W/ 4-#10 SELF TAPPING SHEET METAL SCREWS AND ATTACH TO WALL W/ 3"ø X 2" GALVANIZED LAG SCREWS
34. SIDE OF HVAC UNIT SEE [HV]
35. (3) 2X4 W/ PLYWOOD SPACER- BUILT- UP POST. 8d AT O.C. STAGGERED SPACER TO FIRST 2X4 16d AT 12" O.C. SECOND 2X4 12d AT 12" O.C. STAGGERED THIRD 2X4 ALTERNATE USE 4X4 POST
36. 11GA. X24" STEEL SUPPORT BRACKET
37. EN - 8d BOX ELECTRO GALV. AT 6" O.C.
    FN - 8d BOX ELECTRO GALV. AT 12" O.C.
38. CAULKING

NOTES

1. EN 8d ELECTRO GALV. AT 6" O.C.
2. FN Ed ELECTRO GALV. AT 12" O.C.
3. SEE SHEET S5.0 FOR TYPICAL WALL FRAMING NAILING

INSULATION MATERIALS INSULATED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES, OR ATTICS SHALL HAVE A FLAMESPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450. EXCEPTIONS:
A: FOAM PLASTIC INSULATION SHALL COMPLY WITH SEC. 2602

B: WHEN MATERIALS ARE INSULATEDIN CONCEALED SPACES OF TYPES I, II, IV, AND V CONSTRUCTION, THE FLAME SPREAD AND SMOKE-DEVELOPED LIMITATIONS DO NOT APPLY TO FACINGS. IF THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL FINISH. (SEC. 707.3 CBC)

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PC-04 101419
DATE OCT 2 5 2002

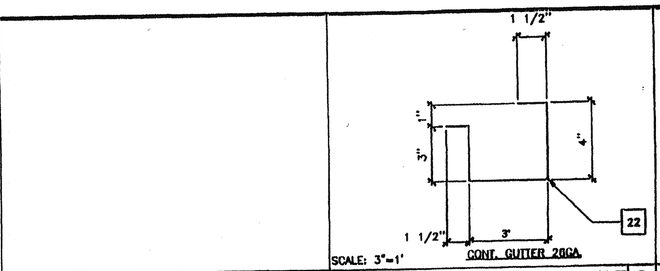
MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151
WILLIAMS SCOTSMAN

ARCHITECTURAL DETAILS

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:
MODTECH Index No.
A6.0

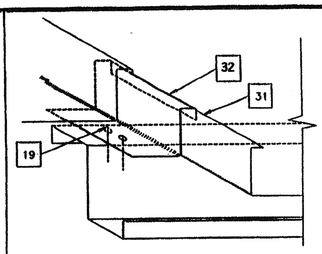
PROJECT NUMBER: 4097



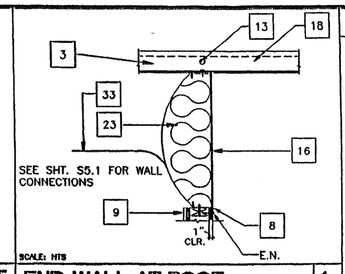
SCALE: 3"=1'

CONT. GUTTER 20GA.

13 **CONT. GUTTER AND CLOSURE** 9



ROOF STANDING SEAM 5

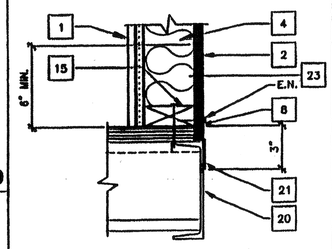


SEE SHT. S5.1 FOR WALL CONNECTIONS

SCALE: NTS

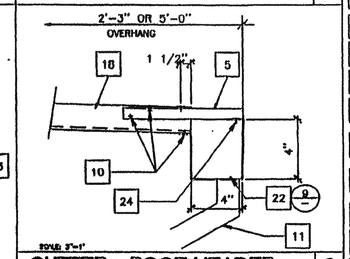
END WALL AT ROOF 1

17 18 14 10



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

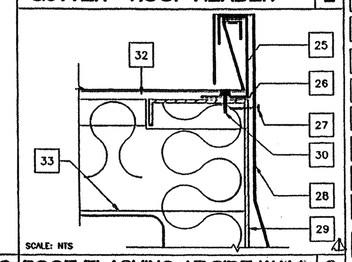
SCALE: 3"=1'



SCALE: 3"=1'

GUTTER • ROOF HEADER 2

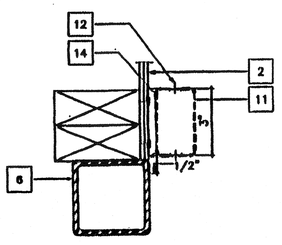
19 15 11



SCALE: NTS

TYPICAL SILL • FLOOR 6

ROOF FLASHING AT SIDE WALL 3



SCALE: 4"=1'

20 16 12

DOWNSPOUT ATTACHMENT 8

4

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP# 03 118937 AC KN FLS SS EY DATE APR 03 2003

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104310 AC FLS SS DATE JUN 06 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104308 AC FLS SS DATE MAR 21 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104984 AC FLS SS DATE MAR 08 2002

KEY NOTES

1	TYP. INTERIOR FINISH
2	TYP. EXTERIOR FINISH
3	#14STSMS X 3/4" W/NEO WASHER 3 PER PAN MAX 6" O.C.
4	2X4 STUD TYP. 16" O.C.
5	1 1/2"X1 1/2" X 22GA ∠ CLIP AT 32" O.C.
6	TUBE STEEL SEE STR
7	1 1/2"X1 1/2" X 20GA COPED ANGLE W/2 #10 STSMS TO PURLIN (TYP) AT 0'-0" O.C.
8	SEALANT TYP. (SEE SPECIFICATIONS)
9	EXTERIOR WALL (SEE S5.1 FOR CONNECTIONS)
10	#14 STSMS AT EA STANDING RIB (16" OC)
11	DOWNSPOUT
12	#8 STSMS- 1 AT EA SIDE OF DOWNSPOUT TO BRACKET
13	(1) - #14 STSMS W/NEOPRENE WASHER THROUGH RIB
14	ATTACHMENT BRACKET(TYP 3 PLACES: TOP, BOTTOM & MIDSPAN W/ 2-#10 STSMS, BRACKET TO STUD)
15	2 X 4 SILL PLATE PER 4/S5.1
16	ROOF HEADER SEE STR
17	GI FLASHING 22GA
18	STANDING SEAM ROOF (SEE A2.0 FOR GA.)
19	ROOF PURLIN SEE STR
20	FLOOR BEAM SEE STR
21	22GA GALV. FLASHING (AT BELOW GRADE CONC. FOUNDATION ONLY)
22	CONTINUOUS 26GA. GUTTER (SEE 9/A6.1)
23	INSULATION (SEE SPECS FOR TYPE AND SIZE)
24	#14 STSMS AT EACH CLIP (32" O.C.)
25	22 GA STARTER/END ROOF CLIP-3/A6.1
26	1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
27	#14x3/4" STSMS AT ROOF HEADER WITH NEOPRENE WASHER-3 PER PAN MAXIMUM 6" OC
28	26 GA GALVANIZED IRON FLASHING AT SIDE WALL
29	C 14x12 GA HEADER
30	(2) AKN .144 KNURLED DRIVE PINS-ROOF CLIP TO PURLIN ROOF BEAM OR HEADER
31	6"x2 1/2"x14 GA ROOF PURLIN SEE PLAN FOR SPACING
32	22 GA STARTER/END ROOF CLIP
33	PROVIDE VAPOR BARRIER OVER INSULATION AT ROOF BEAMS AND CEILING

REVISED DEC 9 1999

PC

CBC 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 10419 AC FLS SS DATE OCT 23 1999

REVISIONS			
1	12/99	UPDATE CLIP DETAIL	SS
2			
3			
4			
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Electrical Engineer's Seal

Mechanical Engineer's Seal

Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

CURRENT Index No.

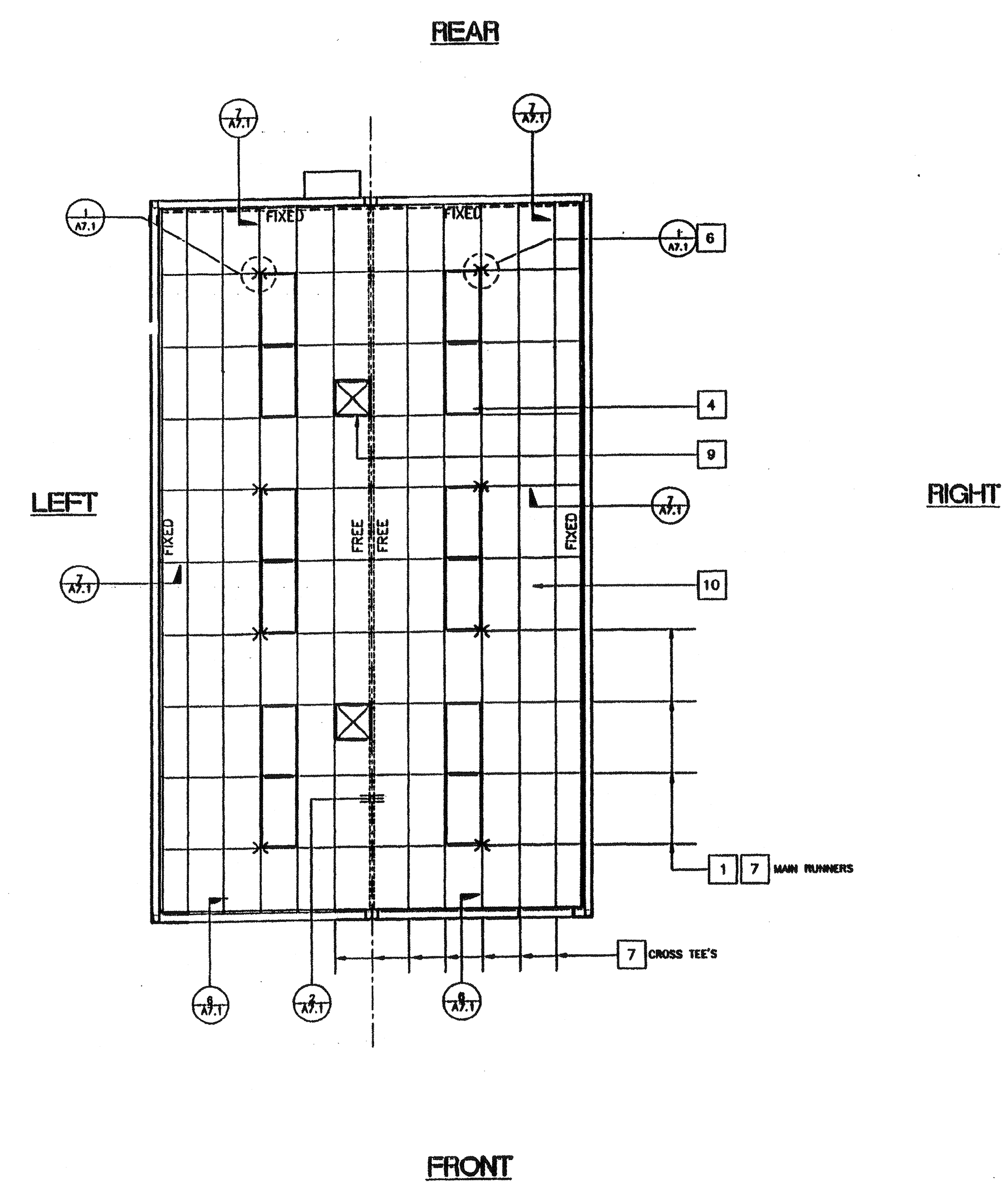
ARCHITECTURAL DETAILS

A6.1

PC-04-101419

PROJECT NO. 4097

PATH: 2440-0-AS-1.DWG



REFLECTED CEILING PLAN (24'X40')

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

KEY NOTES

1. MAIN RUNNERS @ 4'-0" W/12GA. HANGER WIRES @ END OF EACH RUNNER.
2. AT THE END OF ROWS OF RUNNERS A 12GA. HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT.
3. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
4. PROVIDE 2-12GA. SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS. WIRES SHALL BE ATTACHED TO STRUCTURE OF LIGHT FIXTURES: 2 X 4 RECESSED, ATTACH FIXTURE TO GRID W/1-#8 SHEET METAL SEREW AT EACH CORNER.
5. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT 2-ADJACENT WALLS, OTHER WALLS NO . ATTACHMENT. CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL.
6. CEILING AREAS SHALL HAVE 2/4-WAY SPLAYS PER DETAIL 1 ON SHEET A7.1 IN LOCATIONS INDICATED ON DRAWINGS. WIRES TAUT BUT NOT TO DISTORT GRID.
7. T-BAR PART NUMBERS

	ARMSTRONG PA-041		
RUNNER MAIN	7301D		
4' CROSS TEE	7343		
2' CROSS TEE	7328		
WALL ANGLE	7800D		

8. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
9. REGISTERS SHALL BE POSITIVELY ATTACHED W/4-10GA. SHEET METAL SCREWS. (TYP. 1- @ EA. CORNER)
10. CFILING PANELS: 2910

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 101375 AC FLS SS DATE JUN 1 8 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 101384 AC FLS SS DATE MAR 2 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 118937 AC FLS SS DATE APR 0 3 2018

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104310 AC FLS SS DATE JUN 0 6 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 10[illegible] AC FLS SS DATE MAR [illegible] 2002

LEGEND

- T & T BAR CEILING
- 2'X 4' ELEC. FIXTURE RECESSED
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- × SPLAY WIRE 4 WAY
- ——— INDICATES FIXED SIDE (SEE DETAIL 7/A7.1)
- - - - - - INDICATES FREE SIDE (SEE DETAIL 6/A7.1)

CBC 1998

PC

REVISIONS

1		
2		
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Electrical Engineer's Seal

Mechanical Engineer's Seal

LICENSED ARCHITECT STATE OF CALIFORNIA

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
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PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

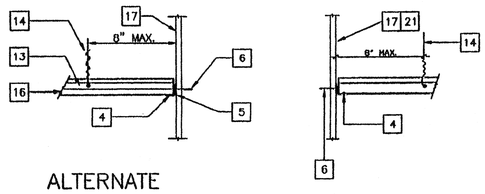
DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

REFLECTED CEILING PLAN 12 LIGHTS

MODTECH Index No. A7.0

PC-04-101419 PROJECT NO 4097

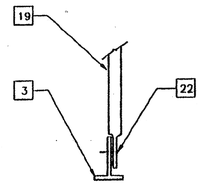
FILE PATH: 2440-0-A7-0.DWG



ALTERNATE

TYPICAL FIXED SIDE

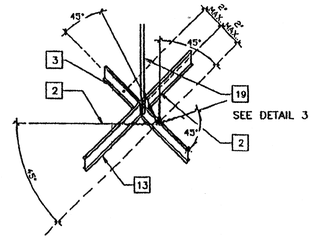
7



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

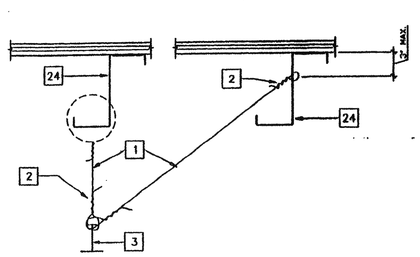
ALT. CONN. AT BOTTOM

4



SIESMIC SPLAY - 4 WAY

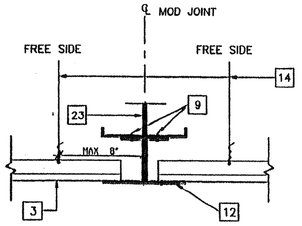
1



GRID AT MOD LINE

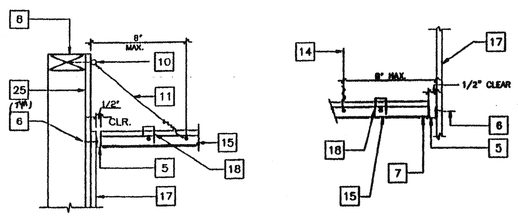
SCALE 3"=1'

5



NOTE: LAY-IN CEILING TILE NOT SHOWN FOR CLARITY.

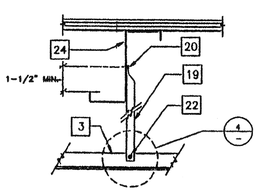
2



ALTERNATE

TYPICAL FREE SIDE

6



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR DEPENDING UPON CONDITION & LOCATION

3

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KEY NOTES

1. 12GA. HANGER OR DIAGONAL SPLAY WIRE IN PUNCHED OR DRILLED HOLE
2. 12GA. WIRE WITH 4 WRAPS IN 1 1/2" (TYP.) WIRE TO RUN PERPENDICULAR TO MAIN TEE
3. MAIN RUNNER
4. 1/8"ø POP RIVET TO EACH T-BAR
5. WALL ANGLE
6. 6d 16" @ FRAMING TO WALL STUD #8 S.T.S.M.S. WHEN METAL STUDS ARE USED
7. ANGLE WITH 1/8"ø POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
8. TOP PLATE
9. #10 S.T.S.M.S. @ 4' O.C.
10. 3" X 1/4" EYED SCREW. 1/8"ø X 2" JIF-E SCREW WHEN METAL STUDS ARE USED
11. HANGER TO WALL WHERE NO RAFTER ABOVE MAX SLOPE 1" IN 6"
12. 28 GA. JETCOAT
13. CROSS TEE
14. 12GA. HANGER WIRE AT THE END ON EACH RUNNER MIN. 4 WRAPS IN MAX 1 1/2" - SEE DETAIL #5 FOR WIRE TO PURLIN ATTACHMENT
15. MAIN RUNNERS OR CROSS TEES
16. ACOUSTICAL BOARD
17. FINISH WALL
18. HORIZONTAL STRUTS SHALL RUN CONTINUOUS AT ALL PERIMETERS, NOT POP RIVETED TO THE WALL ANGLE ARMSTRONG #7425 OR #7445 WITH SPRING STEEL SNAP TO RUNNER PER IR 47-4
19. 3/4" EMT CONDUIT - MAX 5'-2" (COMPRESSION STRUT)
20. CRIMP CONDUIT AND ATTACH TO RAFTER WITH (2) #8 TEK SCREW
21. PROVIDE SPACE AT ALL MEMBERS AT OPPOSITE WALL
22. CRIMP CONDUIT AND ATTACH TO T-BAR GRID WITH #8 TEK SCREW
23. ROOF BEAM SEE (STR)
24. ROOF PURLIN SEE (STR)
25. RUN GYP BOARD TO TOP PLATE FOR FIRE BLOCKING

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APPR'D 18937
AC FLS SS
DATE AUG 03 2018

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 104310
AC FLS BS
DATE JUN 06 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 10875
AC FLS
DATE JUN 28 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 10184
AC FLS
DATE MAR 08 2000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 10038
AC FLS
DATE MAR 21 2002

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal — REGISTERED ARCHITECT — STATE OF CALIFORNIA

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 10419 AC FLS SS DATE JUN 06 2002

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

MODTECH Index No.

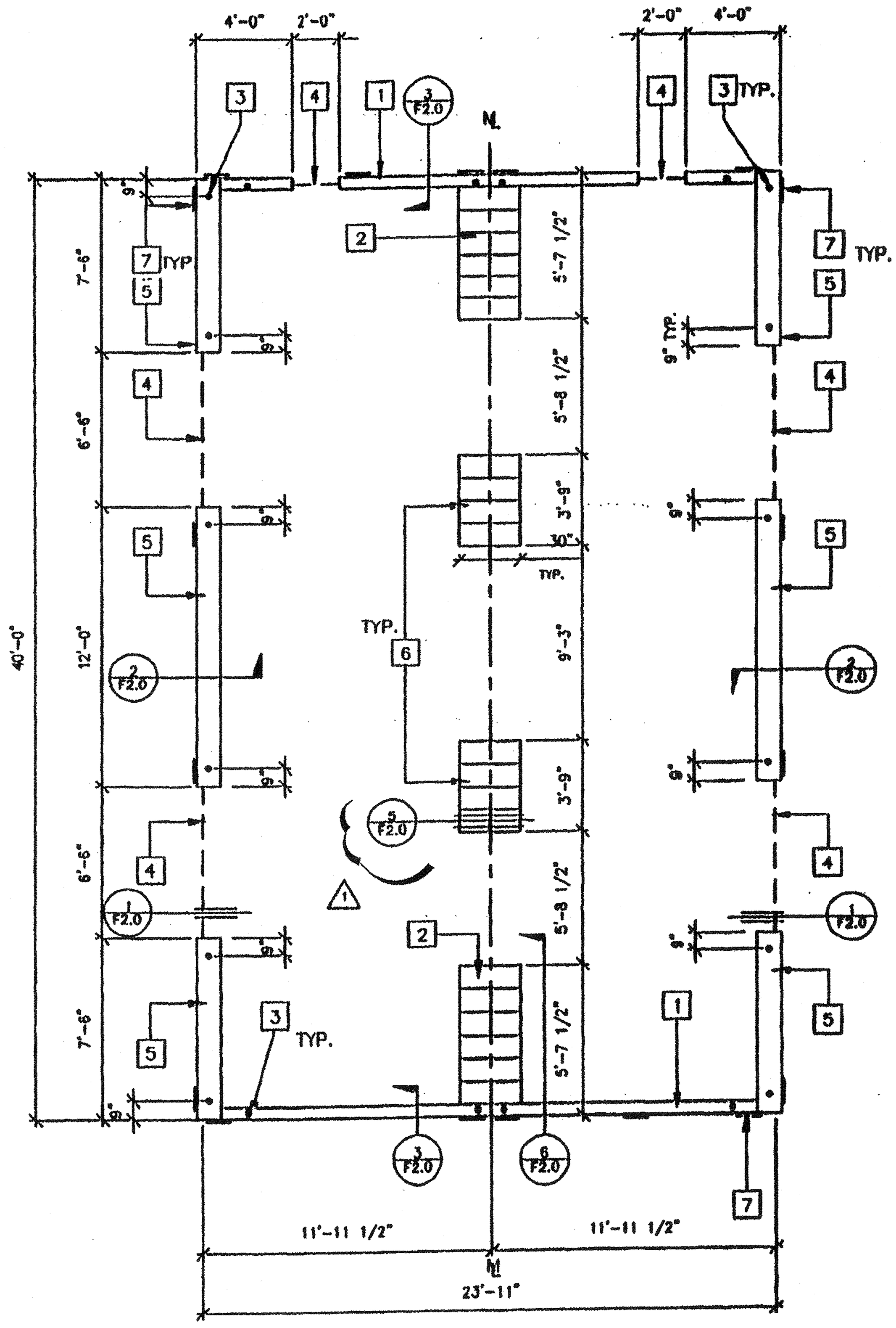
REFLECTED CEILING DETAILS

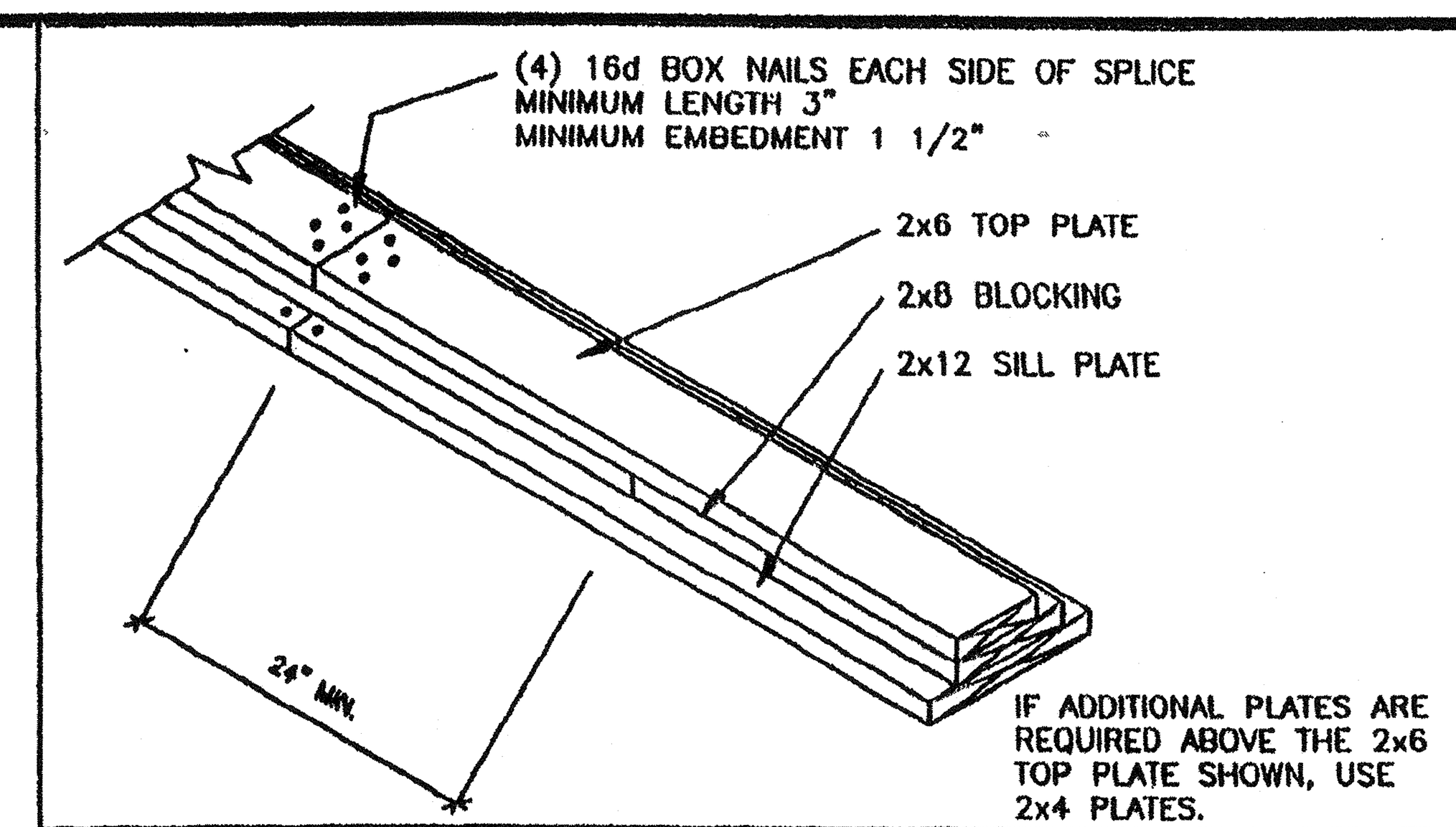
A7.1

PROJECT NO. 4097

PC-04-101419

FILE PATH: 2440-0-A7-1.DWG





FOUNDATION SPLICE DETAIL

KEY NOTES

1. 2"X6" SILL PLATE (END WALL)
2. 6– 2X12X30" LONG SILL PADS
3. PIPE TO GRADE (TYP.)
4. 3" HIGH BY 6'–6" LONG VENT @ SIDEWALLS
   3" HIGH BY 2'–0" LONG VENT @ ENDWALLS
5. 2X12 SILL PLATE (SIDE WALL)
6. 4–2X12X30" LONG SILL PADS
7. 6"X12"X10 GA. PLATES
   5 @ ENDWALL, 4 @ SIDEWALL
8. NOT USED
9. NOT USED

NOTES

1. SILL RESTRAINT:

   ON ASPHALT CONCRETE PAVING OR ON SOIL OR ON PRE-DRILLED CONCRETE SLAB ON GRADE USE 1" (1.315" OD) GALVANIZED PIPE AT 10'-0" OC MAX WITH 12" MIN PENETRATION BELOW SURFACE (MEASURED VERTICALLY). DRILLED SILL HOLE TO BE 1 1/4" MAX. PIPE MAY BE DRIVEN MAX OF 45° ANGLE TO VERTICAL. 19" LONG PIPE REQUIRED FOR PENETRATION AT 45° ANGLE.
   ONE PIPE SHALL BE LOCATED 2' MAX FROM EACH CORNER IN EACH DIRECTION. 2 PIPES MIN SHALL BE PROVIDED PER DISCONTINUOUS FOUNDATION STRIP

   ALTERNATE:
   ON CONCRETE PAVING USE HILTI DS 82-P10 THRU SILL PLATE, SPACING TO BE DETERMINED ON CASE BY CASE BASIS.

2. NOT USED
3. WHERE SHIM STOCK IS REQUIRED FOR LEVELING USE 1/4", 1/2", OR 3/4" THICK PLYWOOD SAME WIDTH AS BLOCK. P.T.
4. VERIFY DRAINAGE TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. WITH DISTRICT ARCHITECT SITE PLANS
5. ALL FOUNDATION MATERIAL SHALL BE HEM FIR
   GROUND CONTACT: LP–22 (CCA .40)
   ABOVE GROUND: LP–2 (CCA .25)
6. ALLOWABLE SOIL BEARING: 1000 PSI
7. "MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH"

   THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

VENT CALCS.

BLD'G SIZE 24' X 40'= 960
VENTILATION REQ'D 960 ÷ 150= 6.4SF
3"X6'–6" VENT=1.625SF X 4 = 6.5SF
3"X2'–0" = 0.5 SF X 2 = 1.0 SF
TOTAL VENTING PROVIDED = 7.5 SF

FOUNDATION - WOOD SILL 24' X 40' 50 PSF LL
SCALE 1/4" = 1'

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104310 AC FLS SS DATE JUN 0 6 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 101484

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 118937 AC FLS SS DATE APR 0 3 2018

CBC 1998

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REVISIONS			
1	DD	UPDATE NOTE 1, 2/CORRECT DETAIL CALLOUT	09-10-01
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

LICENSED ARCHITECT STATE OF CALIFORNIA

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC–04 101419 AC DATE

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4097

WILLIAMS SCOTSMAN

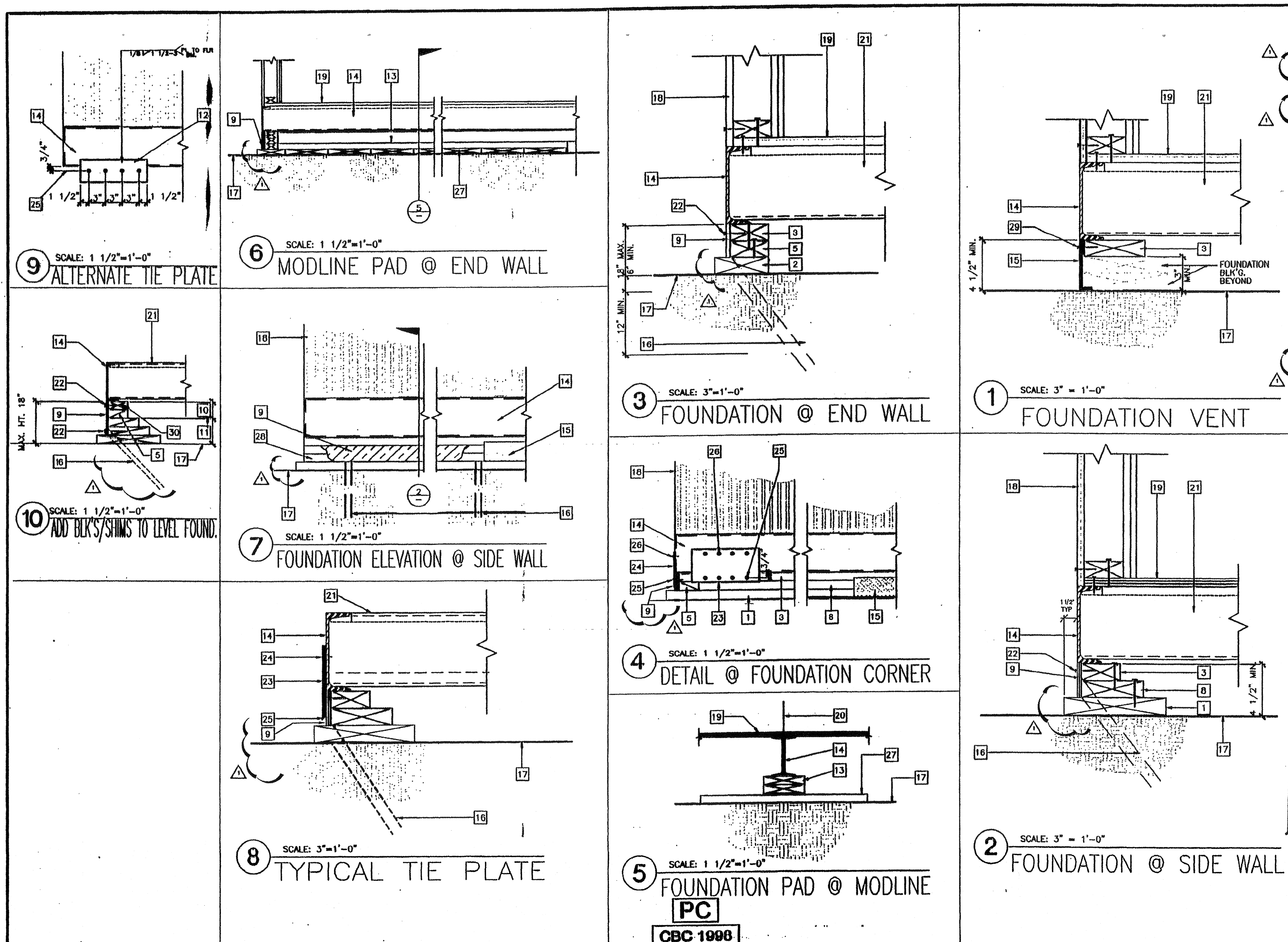
FOUNDATION PLAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

MODTECH Index No.
F1.0

PROJECT NO. 4097

PC-04-101419



KEY NOTES

1. 2X12 SILL PLATE SEE FOUND. PLAN FOR LENGTH
2. 2X6 SILL PLATE SEE FOUND. PLAN FOR LENGTH
3. 2X4 CONT. TOP PLATE W/16d AT MAX. 12" O.C.
4. NOT USED
5. 2X4 BLOCKING W/16d MAX. 12" O.C. TO SILL PLATE
6. NOT USED
7. NOT USED
8. 2X6 BLOCKING W/16d AT MAX. 12" O.C.
9. MIN. 3/8" PLYWOOD SKIRTING W/10d BOX @ MIN. 4" O.C. AT ENDWALLS & 6" O.C. AT SIDEWALLS E.N. & TYP. 12" O.C. FN.
10. ADD BLOCKING OR SHIMS AS REQ. TO MAX. HT. SEE DETAIL #2
11. MIN. FOUNDATION HEIGHT. SEE DETAIL #2
12. 10 GA. PLATE 4" X 12"
13. 2X8 BLOCKING FACE OR TOE NAIL 16d AT MAX. 12" O.C. ADD BLKS. OR SHIMS AS REQ'D
14. FLOOR FRAME BEAM. SEE STRUCTURAL
15. VENT MIN. 3" X 6'-6" TYP. 4-PLACES = 6.5 SF. 2 VENTS AT 3" X 2'-0" = 1.0 SF. = 7.5 SQ. FT. TOTAL
16. SILL RESTRAINT 1" DIA. PIPE. SEE FOUND. PLAN FOR LOCATION
17. FINISH GRADE
18. EXTERIOR FINISH
19. PLYWOOD SUBFLOOR
20. MOD-LINE
21. FLOOR-JOIST
22. EN SEE NOTE #9
23. 6" X 12" X 10GA. PLATE W/(4) #10 SMS TO FLR. & (4)1/4" DIA. X 3" LAG TO FOUND. TOP PLATE
24. 6" X 12" X 10 GA. PLATE
25. 1/4" DIA. X 3" LG. LAG SCREW TYP. 4-PLACES
26. #10 S.T.S. TYP. 4-PLACES
27. 2" X 12" X 2'-6" SILL PLATE. SEE FOUND. PLAN FOR QUANTITY REQ'D
28. 2X8 BLOCKING W/16d AT MAX. 6" O.C. MIN. 3 PER BLOCK. (MAY VARY ACCORDING TO SITE)
29. 10d GALV. BOX NAIL AT MAX. 4" O.C.
30. INSERT REQ'D 2X4 BLOCKING OR PLYWOOD SHIM W/16d AT 12" O.C. FACE NAIL
31. NOT USED
32. NOT USED

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104310 AC FLS SS DATE JUN 0 6 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 101484 DATE MAR 0 8 2002

PC

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FILE PATH: 2440-0-F2-0.DWG

PROJECT NO. 4097

PC-04-101419

REVISIONS			
1	DD	CORRECT KEYNOTES 2,4,16 CORRECT CALLOUTS - VARIOUS DETAILS	09-10-01
2			
3			
4			
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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architect's Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC DATE OCT 2 4 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

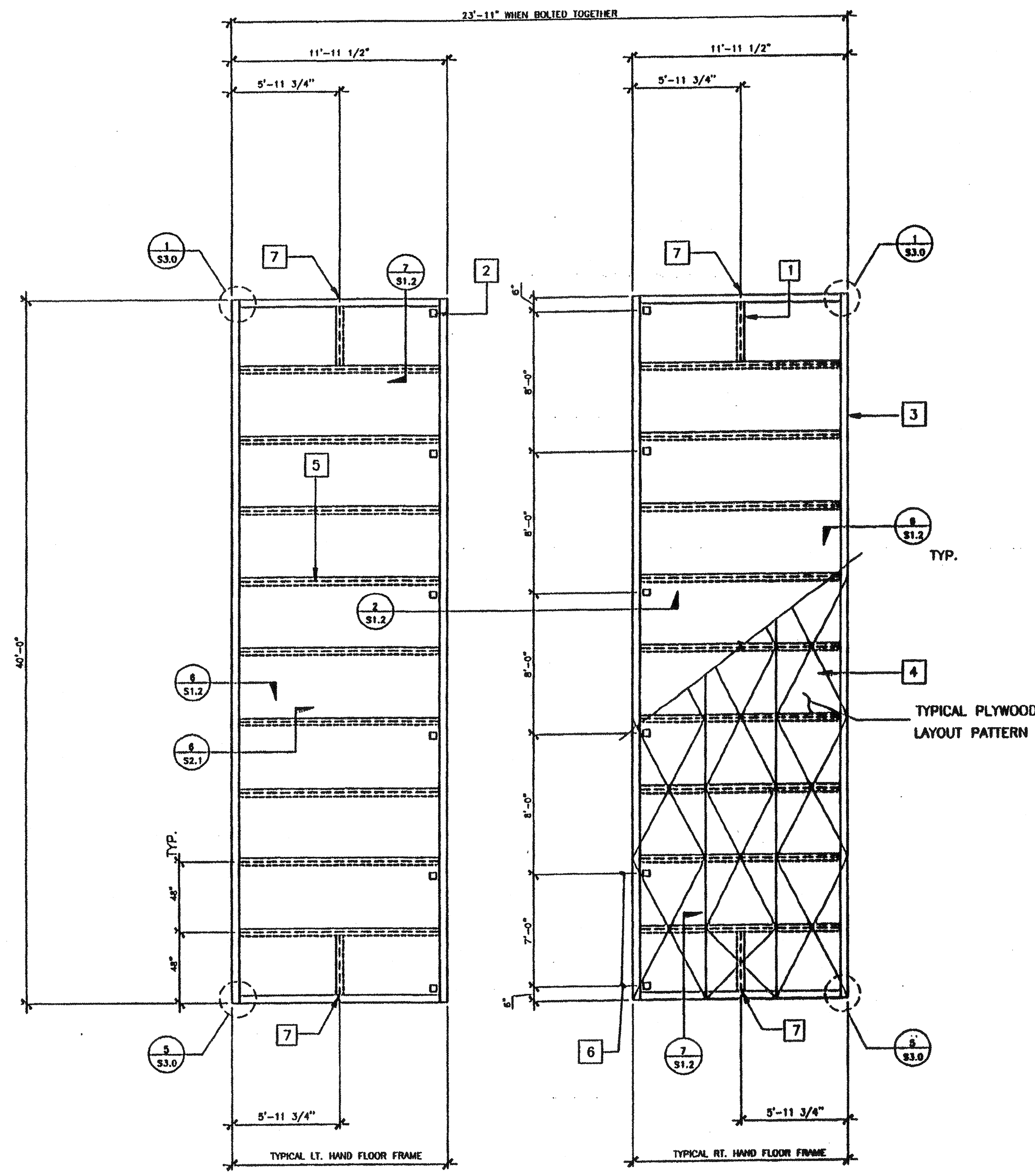
WILLIAMS SCOTSMAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

FOUNDATION DETAILS

F2.01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 118937 AC FLS SS DATE APR 0 3 2018



FLOOR JOIST TABLE

LIVE LOAD	6 3/8"X2 1/2" 12GA.
50 P.S.F.	48" O.C.

KEY NOTES

1. 6 3/8 X 2 1/2 X 12GA. BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
2. 5" DIA HAND HOLES AT BOLT BM TO BM (12 PLACES) OPTIONAL 5" SQUARE HOLE
3. C 7X9.8 PERIMETER CHANNEL (TYPICAL) SEE 5/S2.1
4. PLYWOOD FLOOR SHEATHING: APA PS 1-83 1 1/8" THICK, STURD-I-FLOOR OR EQUAL W/48" O.C. SPAN RATING, ATTACHED W/#10 X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME, AEROSMITH AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 6" O.C. FIELD TO JOIST. (TYPICAL) SEE 10/S2.1
5. 6 3/8 X 2 1/2 X 12GA. FLOOR JOIST AT 48" O.C.
6. TYPICAL BOLT HOLE LOCATION (SEE 2/S1.2)
7. 1"ø HOLE @ MID-DEPTH FOR HANDLING

NOTES

1. FOR L HAND & R HAND FRAME SEE S1.0
2. WELDING FIT-UP: OPENINGS = t/2 OR 1/8" MIN FOR FULL PEN AND
   t = BASE METAL THICKNESS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104310

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 118937 DATE APR 0 3 2018

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 04 101484 MAR 0 9 2000

FLOOR FRAMING PLAN

SCALE 1/4"=1'-0"

FLOOR LIVE LOAD - 50 PSF

CBC 1998

PC

REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	Structural Engineer's Seal	Architects Seal	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 DATE OCT 2 3 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

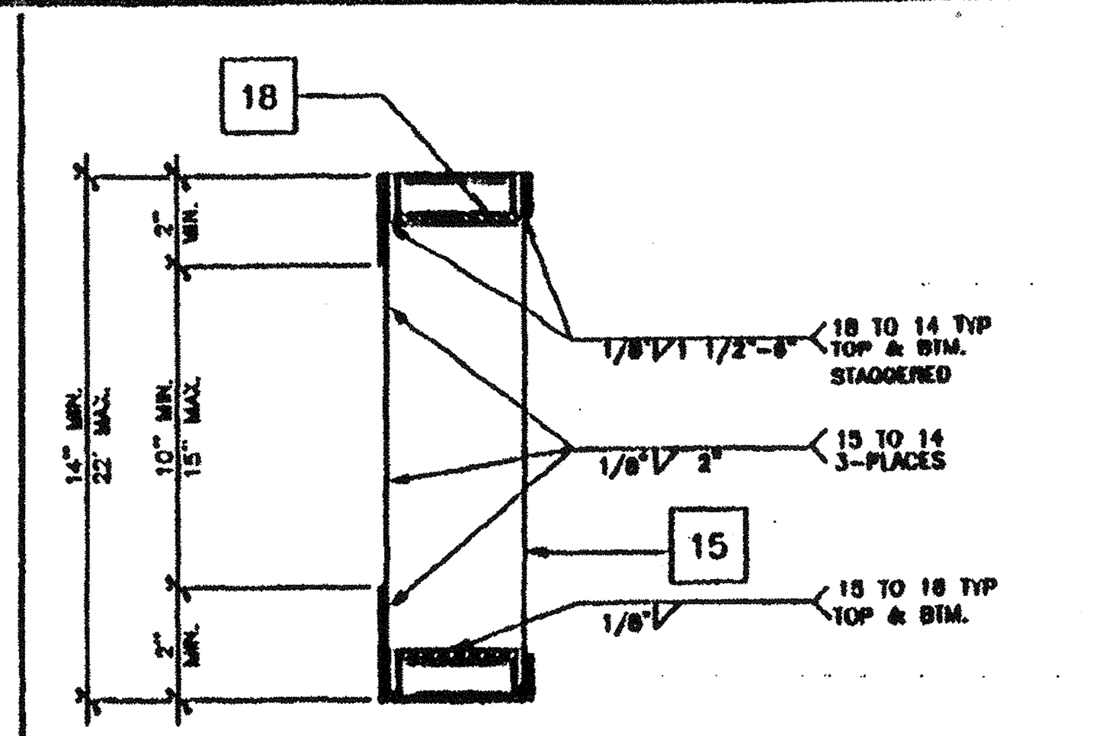
WILLIAMS SCOTSMAN

FLOOR FRAMING PLAN

DRAWN BY: WQ DATE: 3/6/02
CHECKED BY: DATE:

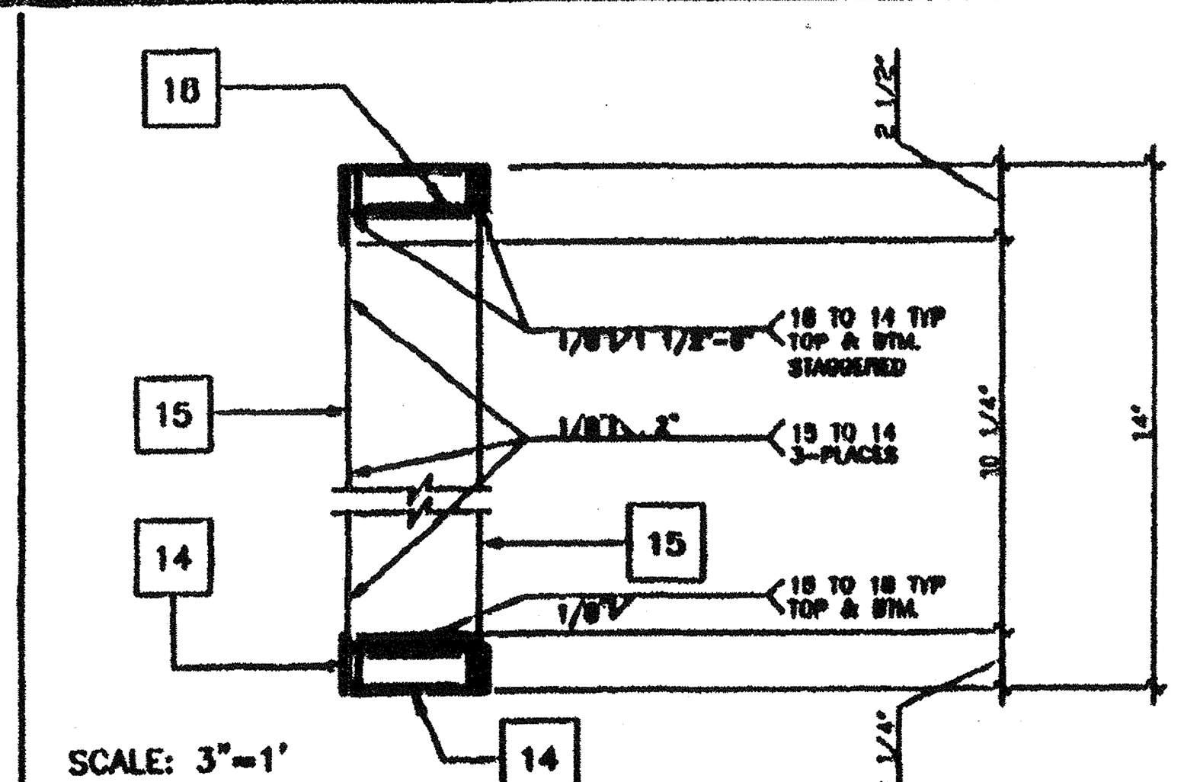
MODTECH Index No. S1.0

PC-04-101419 PROJECT NO. 4097



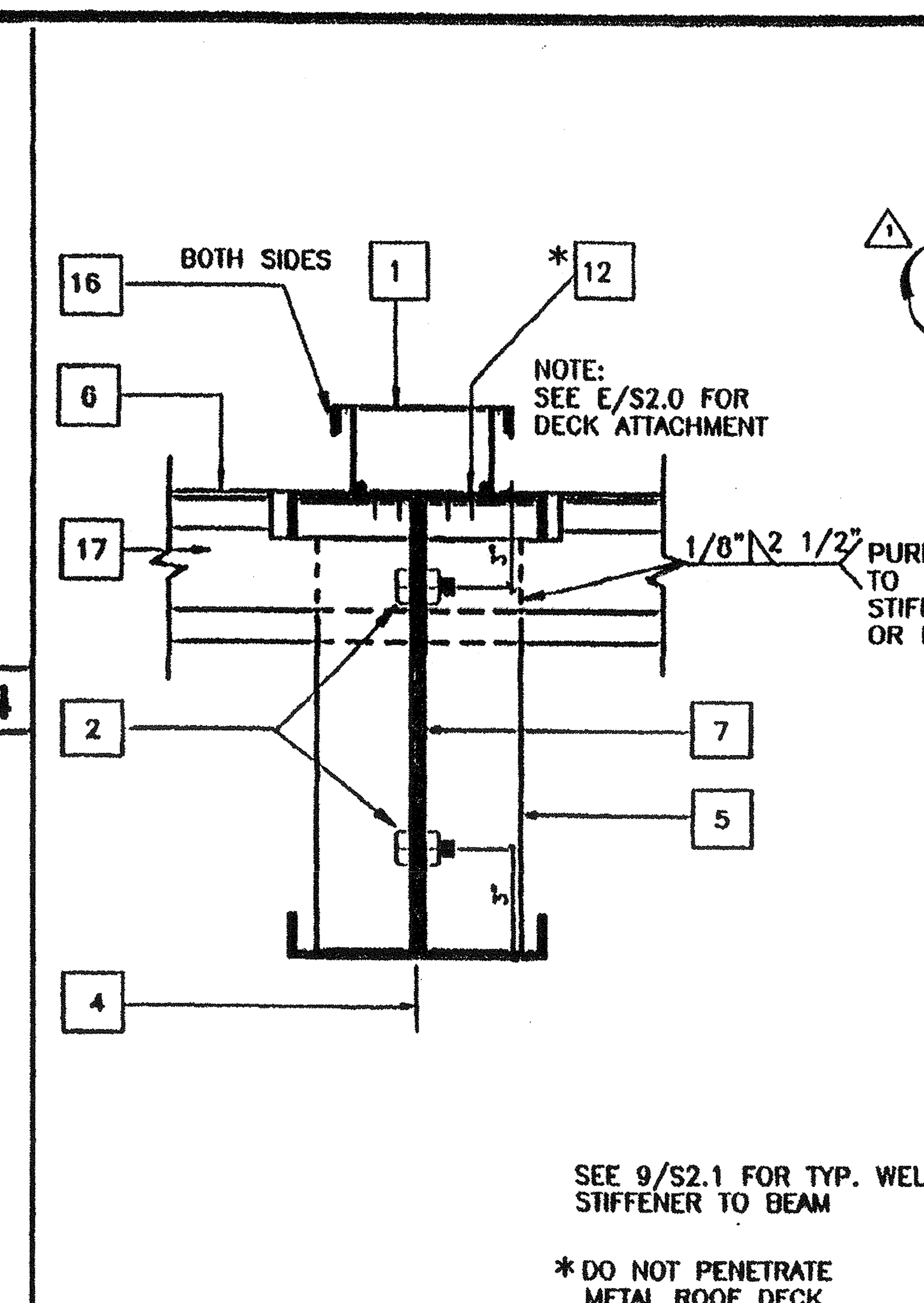
SCALE: 3"=1' SEE MECH. PLAN FOR LOCATION

MECH. DUCT OPENING IN ROOF BM. 8



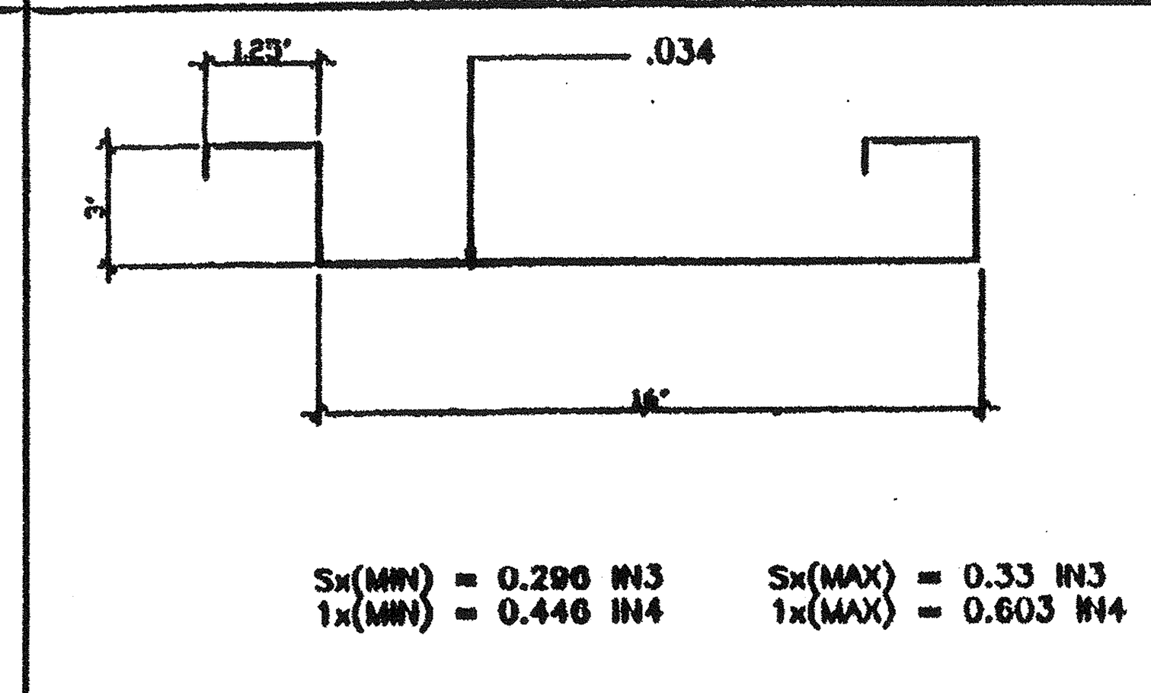
SCALE: 3"=1'

MECH. DUCT OPENING IN HEADER 4



SCALE: 3"=1'

ROOFING @ MODLINE 1



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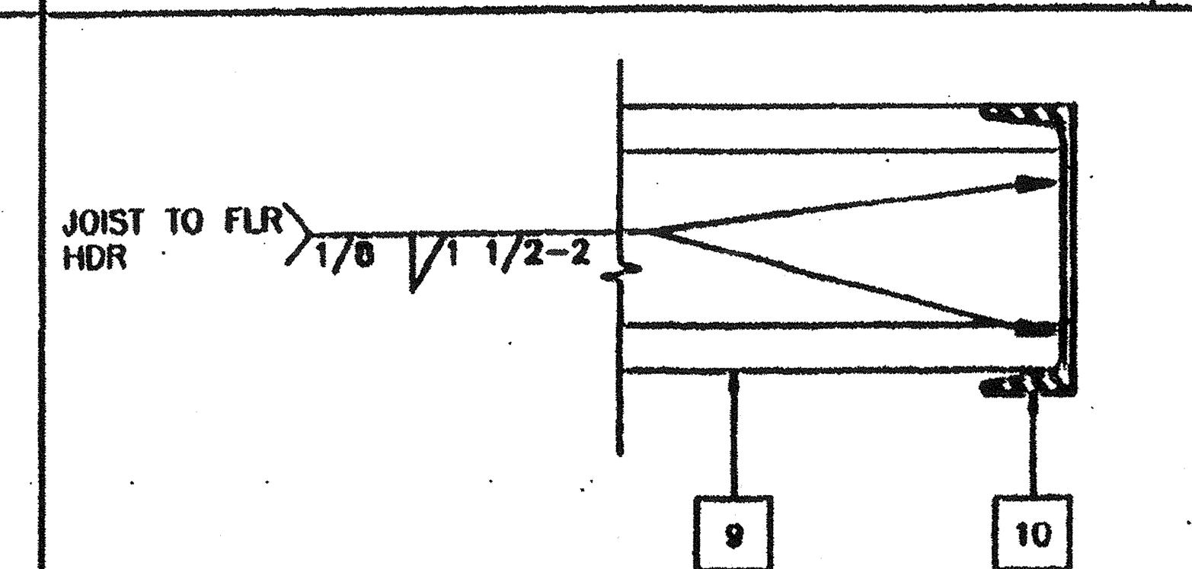
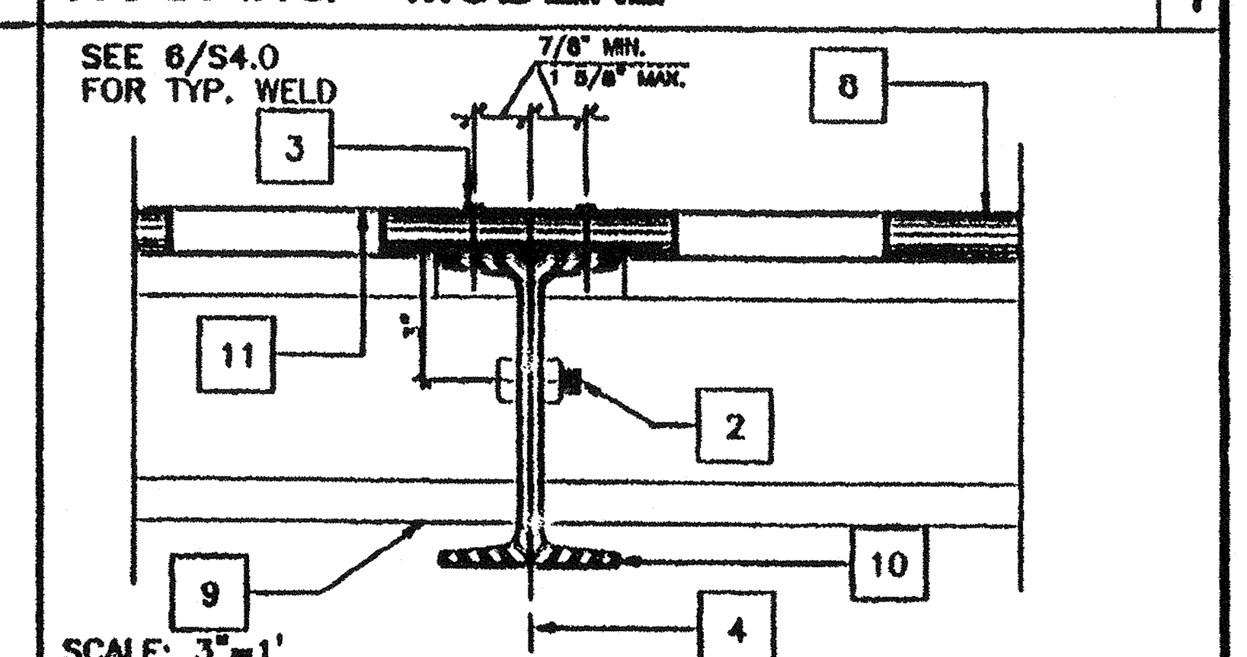
ROOF PAN (22GA.) 5



SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM 6



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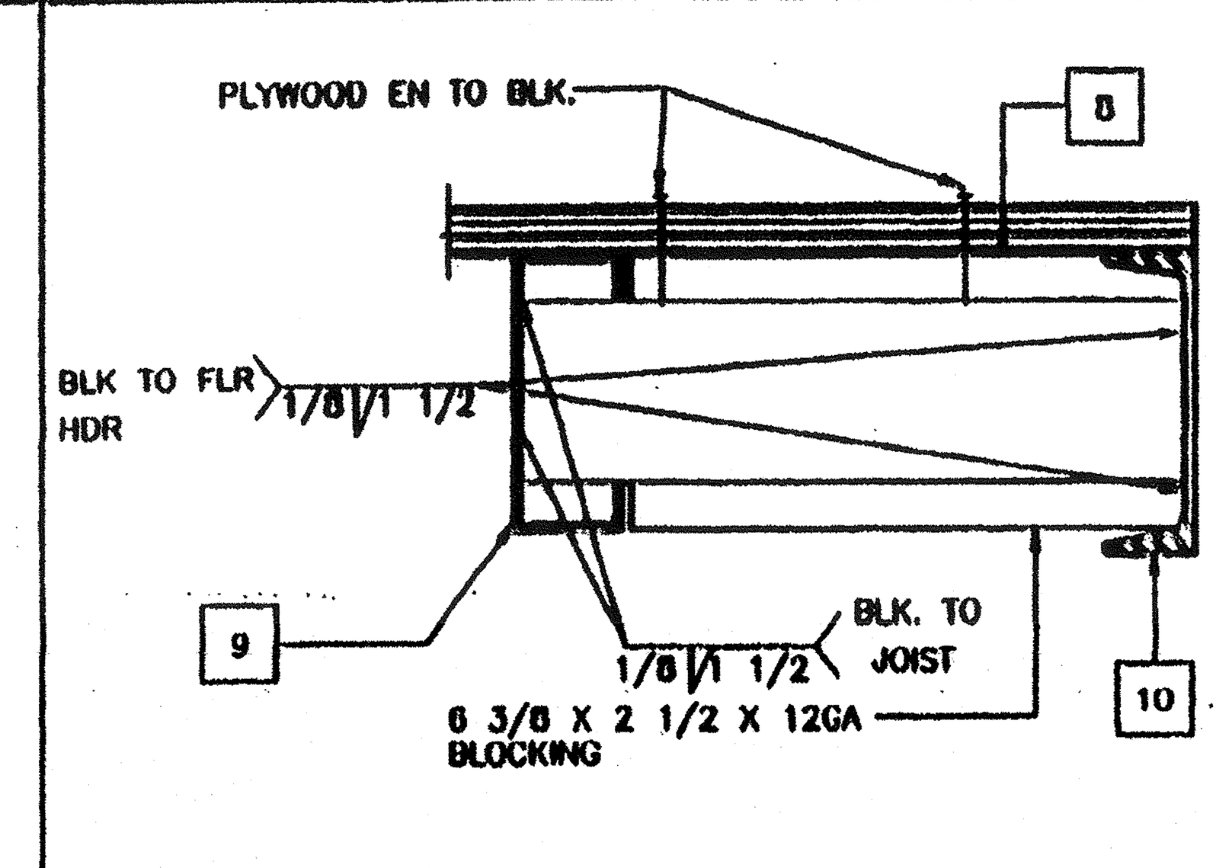
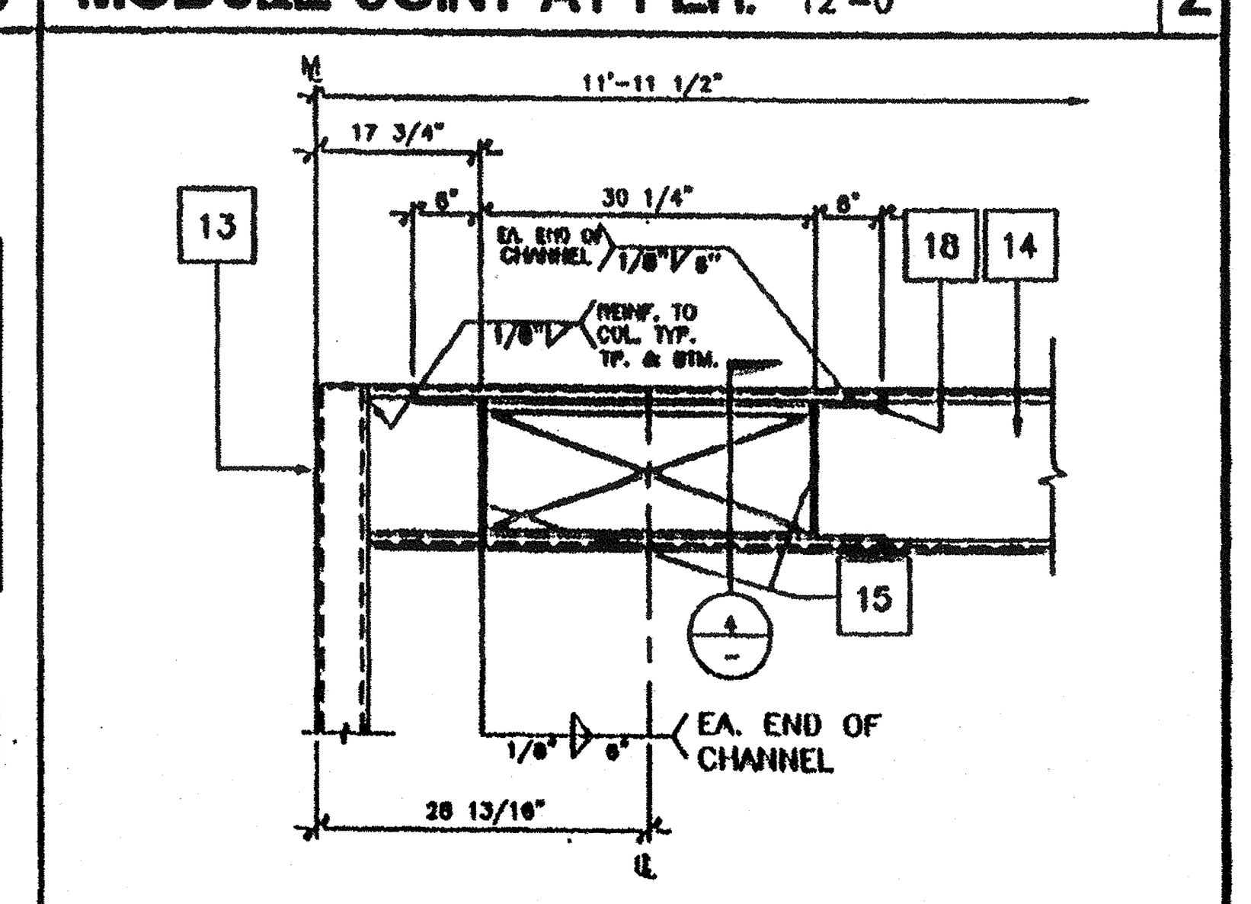
MODULE JOINT AT FLR. 12'-0" 2



SCALE: 3"=1'

BLOCK AT MIDSPAN 7



SCALE: 1"=1'

ELEVATION-OPENING 3

CBC 1998

PC

10

KEY NOTES

1. CAP CLOSURE AT RIDGE 26GA. GALV. W/#10 TYPE FASTENERS W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE. SET CAP IN SEALANT. BOTH SIDES
2. 5/8" M.B. A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) AT 8' O.C.
3. E.N.
4. MODULE JOINT
5. 14" THK X 3" FULL DEPTH STIFFENER PLATE AT RIDGE ONLY (SEE 9/S2.1)
6. STANDING ROOF SEAM (SEE A2.0)
7. ROOF BEAM SEE 1/S2.1 & 7/S2.1
8. PLYWOOD FLOOR SHEATHING
9. FLOOR JOIST SEE 6/S2.1
10. FLOOR BEAM SEE 5/S2.1
11. HAND HOLE AT BOLT LOCATION
12. #14 STSMS.
13. 3 1/2"X3 1/2"X1/4" STEEL TUBE COLUMN. SEE 12/S2.1
14. ROOF HEADER SEE 3/S2.1
15. 1/4" STIFFENER PLATE SEE 9/S2.1 FOR TYP. WELD
16. SEALANT
17. ROOF PURLIN SEE 2/S2.1
18. 3 1/4" X 1" X 45 11/16" LG X 10GA CHANNEL TOP AND BOTTOM OF OPENING

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104310 DATE JUN 0 8 2002

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 118937 DATE APR 0 3 2018

IDENTIFICATION STAMP 04 101484 MAR 0 8 2000

IDENTIFICATION STAMP 04 101... MAR 2 1 2002

REVISIONS			
1	DO	CORRECT KEYNOTE 2	09-10-01

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 DATE OCT 2 5 2000

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

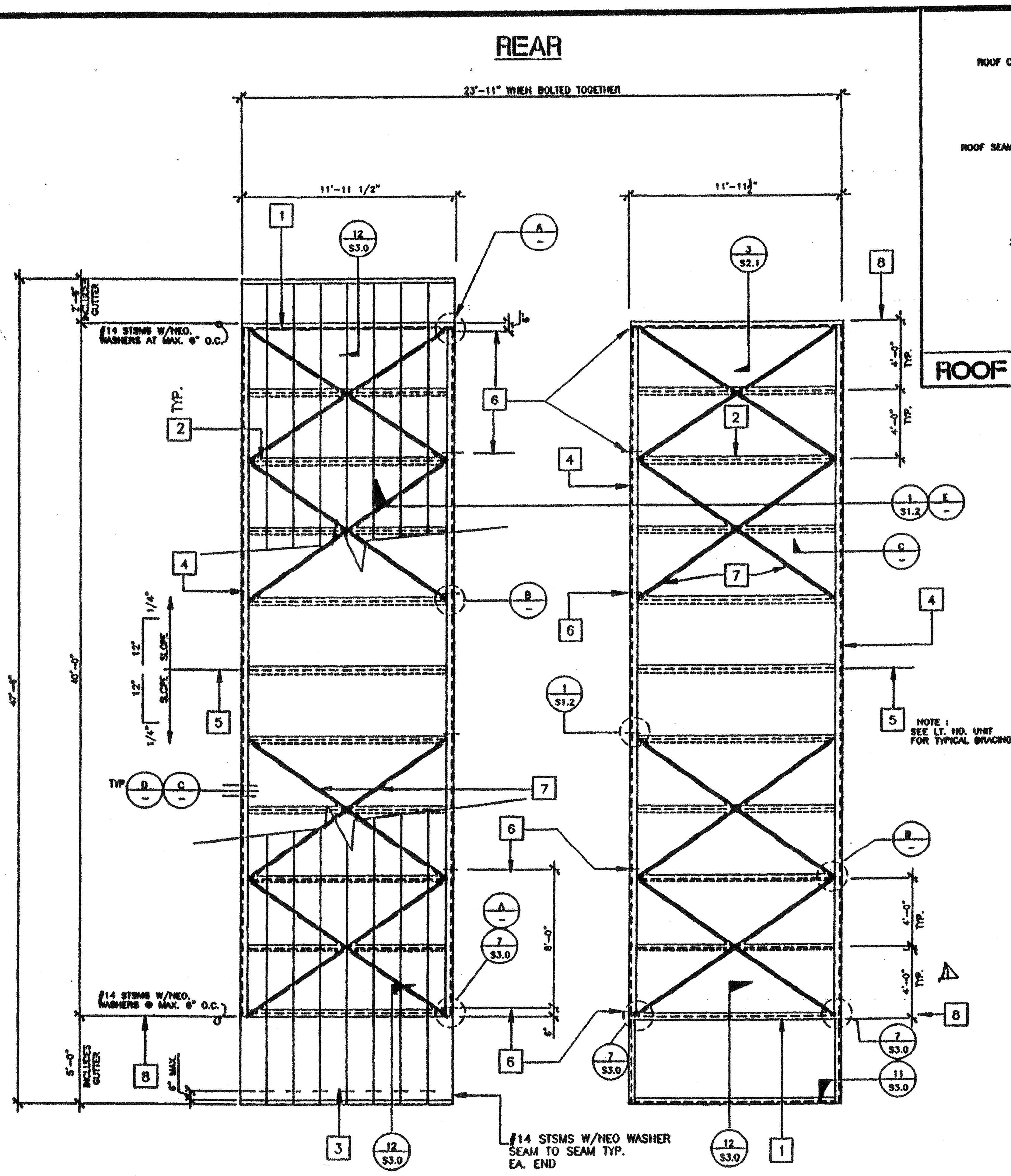
DRAWN BY: WQ DATE: 3/6/02

CHECKED BY: DATE:

STRUCTURAL DETAILS

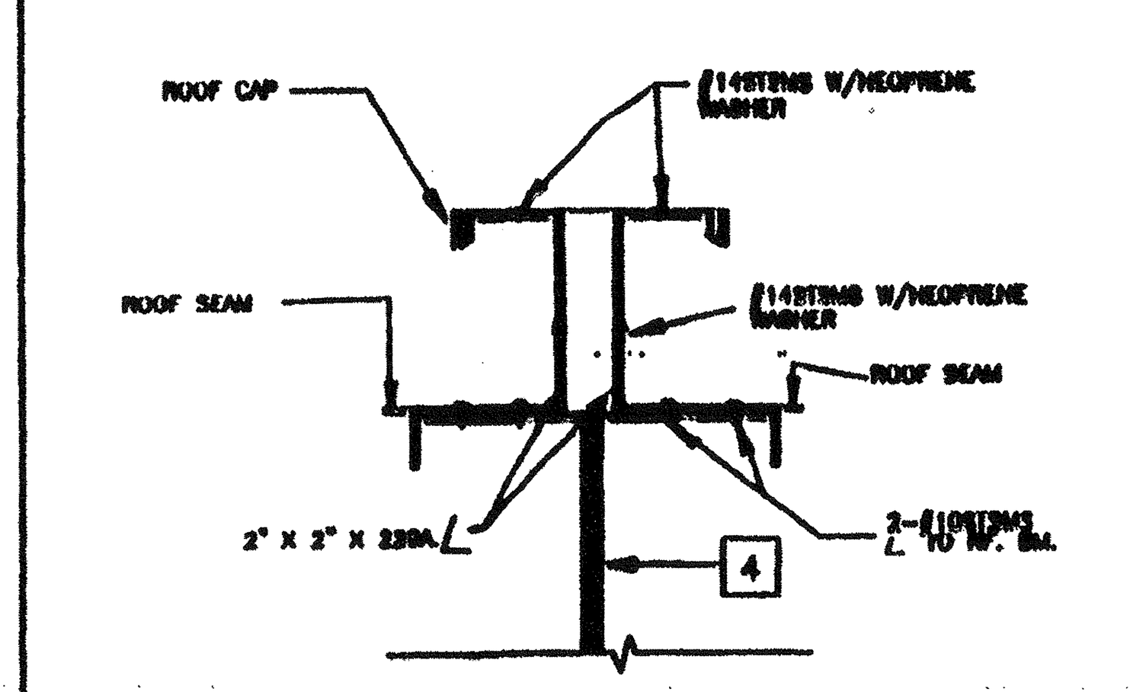
S1.2

PC-04-101419 PROJECT NO. 4097

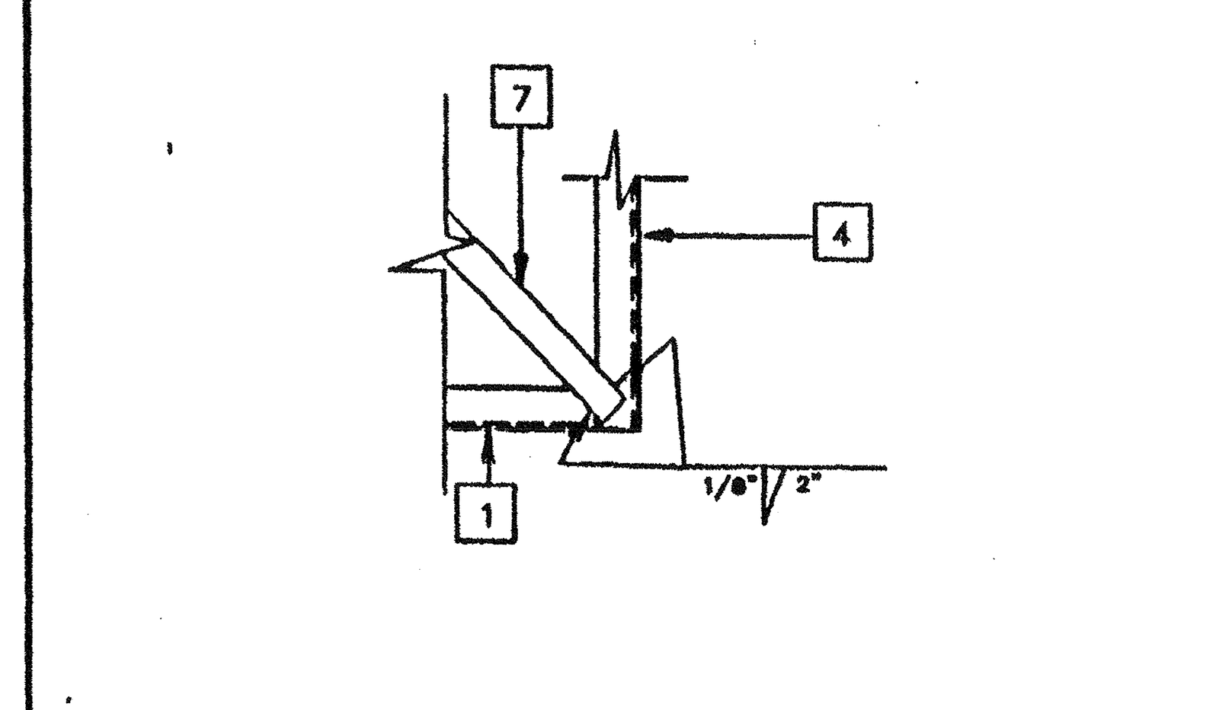


ROOF FRAMING PLAN - DUAL PITCH

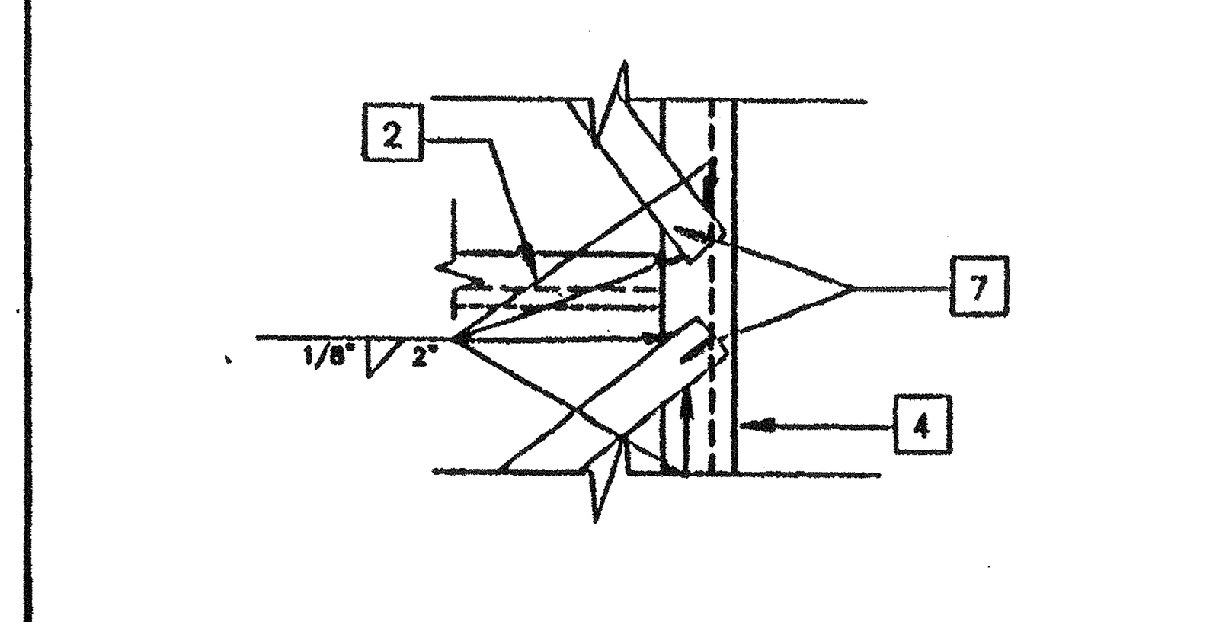
SCALE 1/4"=1'-0"



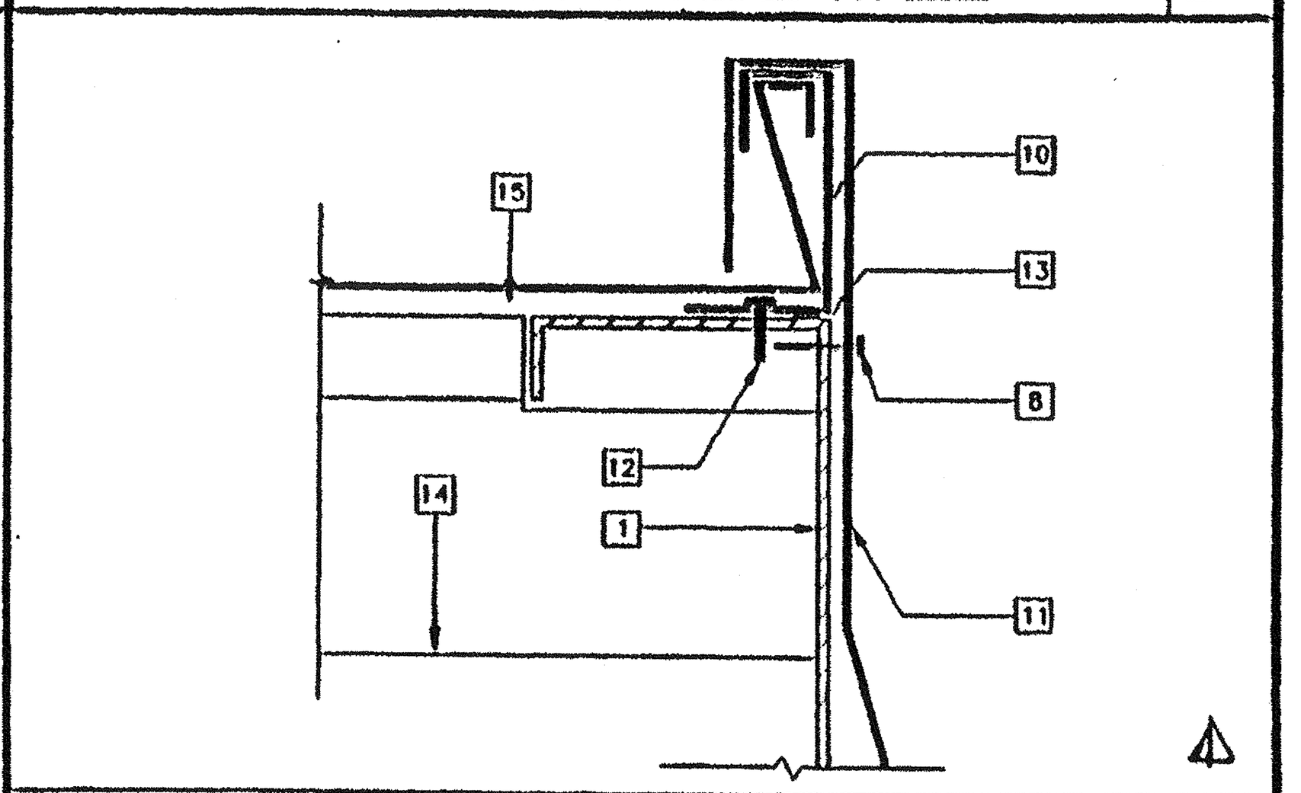
ROOF CAP AT MODLINE (ALTERN.) E



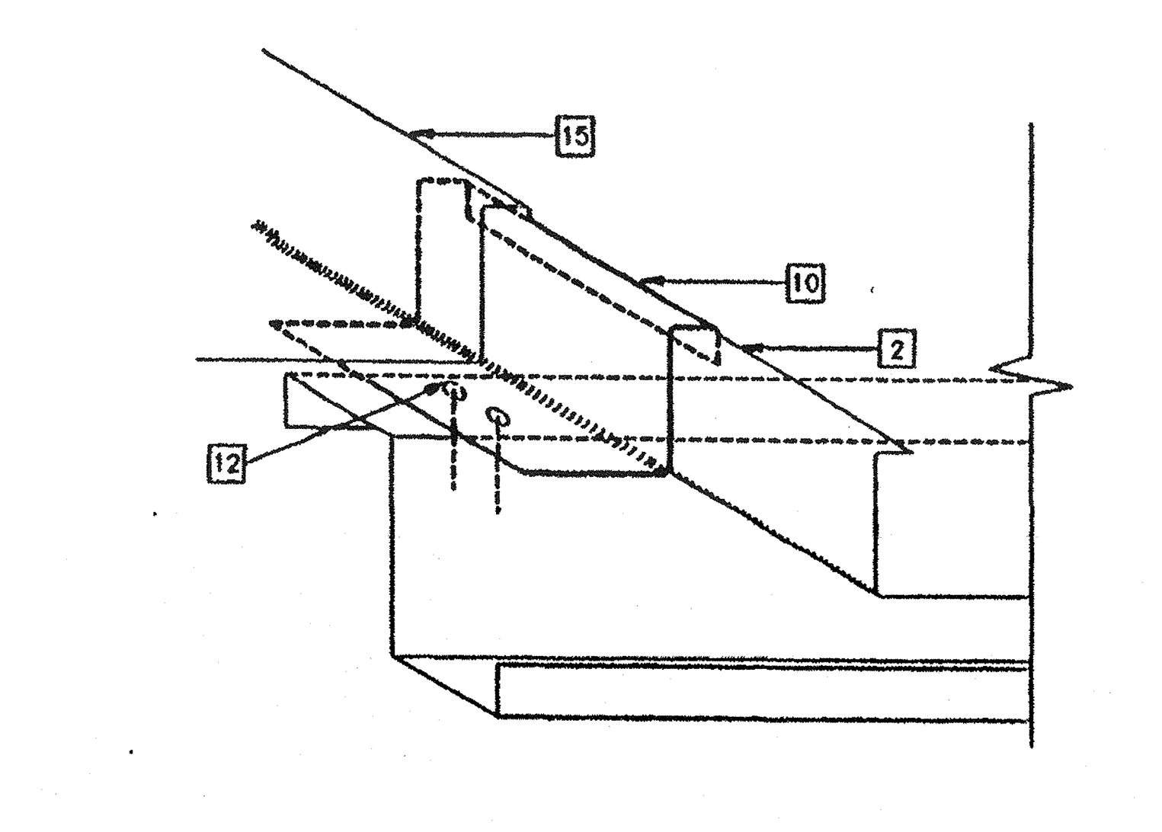
CROSS BRACING AT END WALL A



CROSS BRACING AT SIDE WALL B



ROOF FLASHING AT SIDE WALL C



ROOF STANDING SEAM D

KEY NOTES

1. C 14 X 12GA. HEADER
2. 6"X2 1/2X14GA. ROOF PURLIN SEE PLAN FOR SPACING
3. 22GA. STANDING SEAM ROOFING ATTACH ROOFING TO ROOF CLIP W/#14X3/8" STSMS WITH NEOPRENE WASHERS. SPACING: 4'-0" O.C.
4. TAPERED ROOF BEAM 10GA. SEE 7/S2.1
5. RIDGE-LINE
6. 11/16ø DRILL SEE DETAIL 1/S1.2
7. 2" X 20GA. STRAP CROSS BRACING TACK WELD TO EA. PURLIN
8. #14 X 3/4" STSMS AT ROOF HEADER W/NEO. WASHER - 3 PER PAN MAX. 6" O.C.
10. 22 GA STARTER/END ROOF CLIP - C/S2.01
11. 26 GA GALVANIZED IRON FLASHING AT SIDEWALL - C/S2.01
12. (2) AKN .144 KNURLED DRIVE PINS - ROOF CLIP TO PURLIN ROOF BEAM OR HEADER
13. 1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
14. ROOF PURLIN (STR)
15. 22 GA STANDING SEAM ROOF PAN

PC
CBC 1998

REVISED DEC 9 1999

REVISIONS

1	12/4/01 OFFSET PURLIN SPACING
2	
3	
4	
5	

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 DATE OCT 25 1999

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP03 118937 DATE APR 03 2018

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

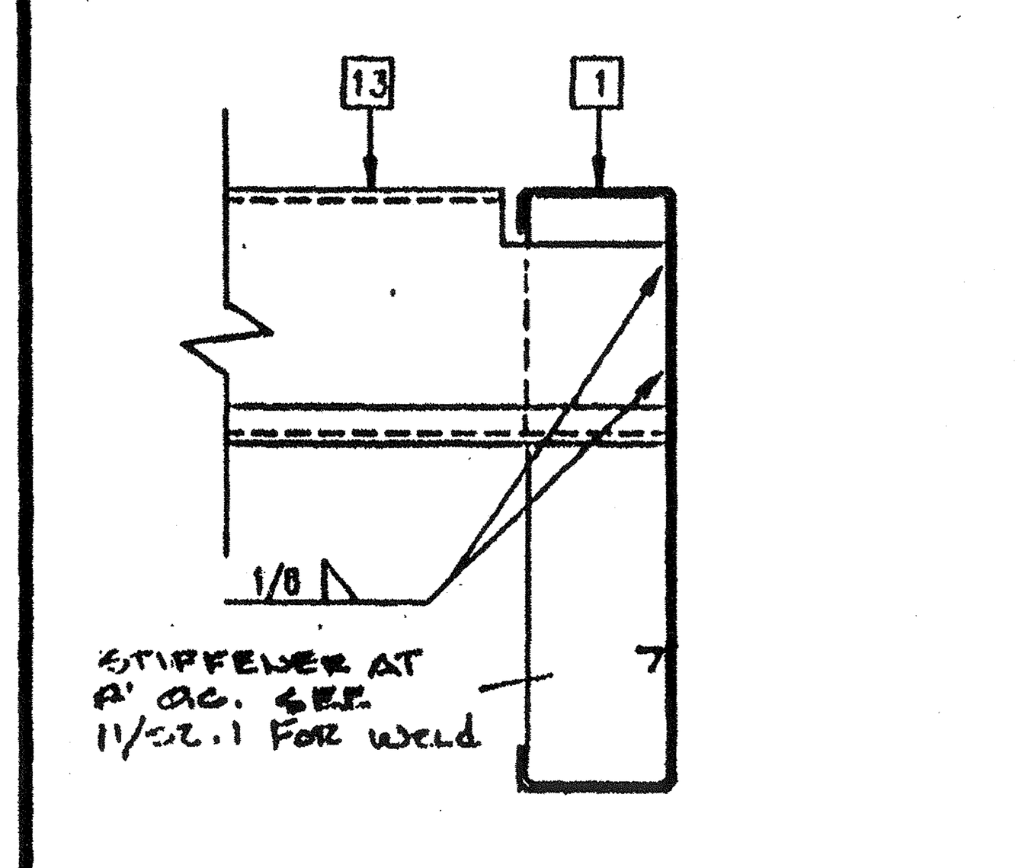
DRAWN BY: WQ DATE: 3/6/02
CHECKED BY: DATE:

ROOF FRAMING PLAN W/ FASCIA

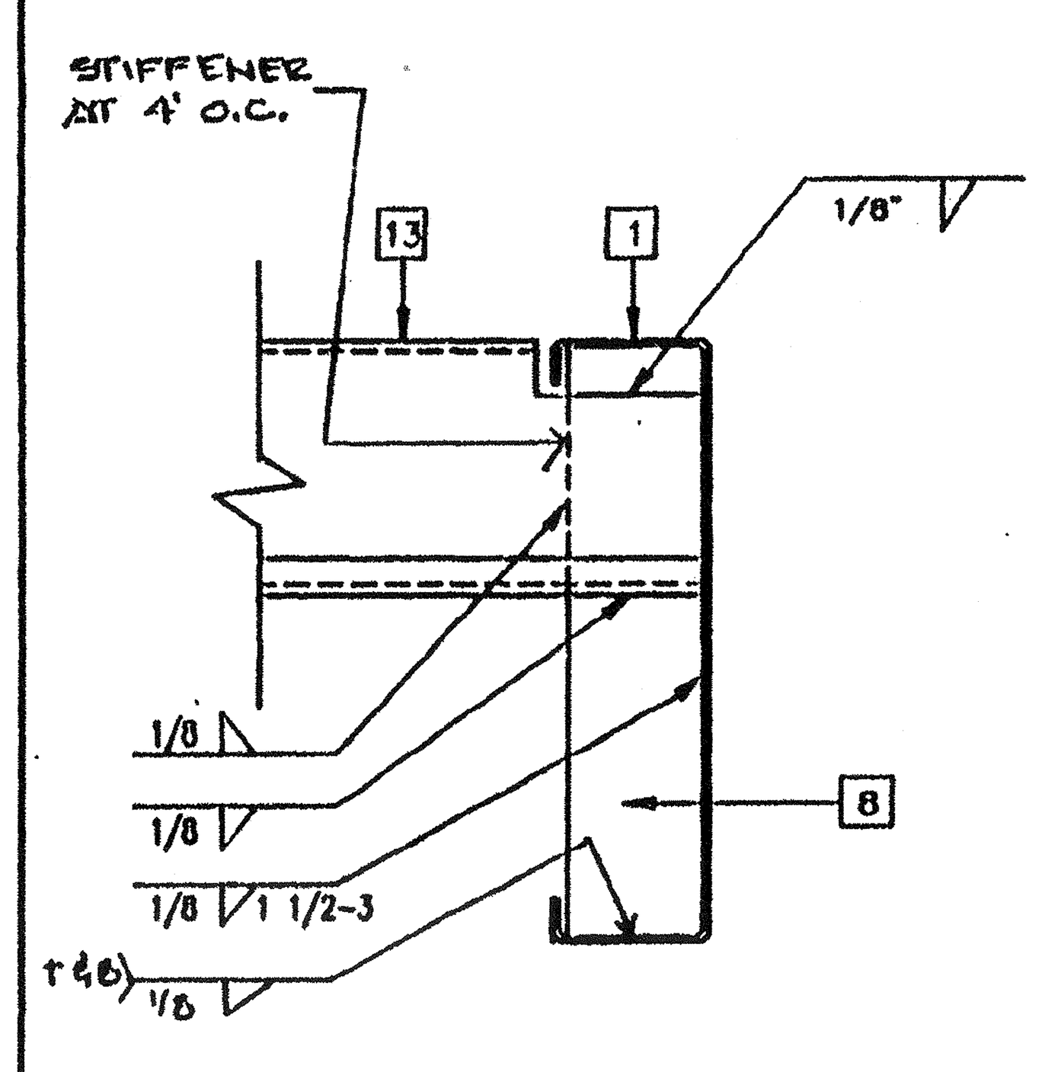
S2.0

FILE PATH: 2440-0-S2-0.DWG

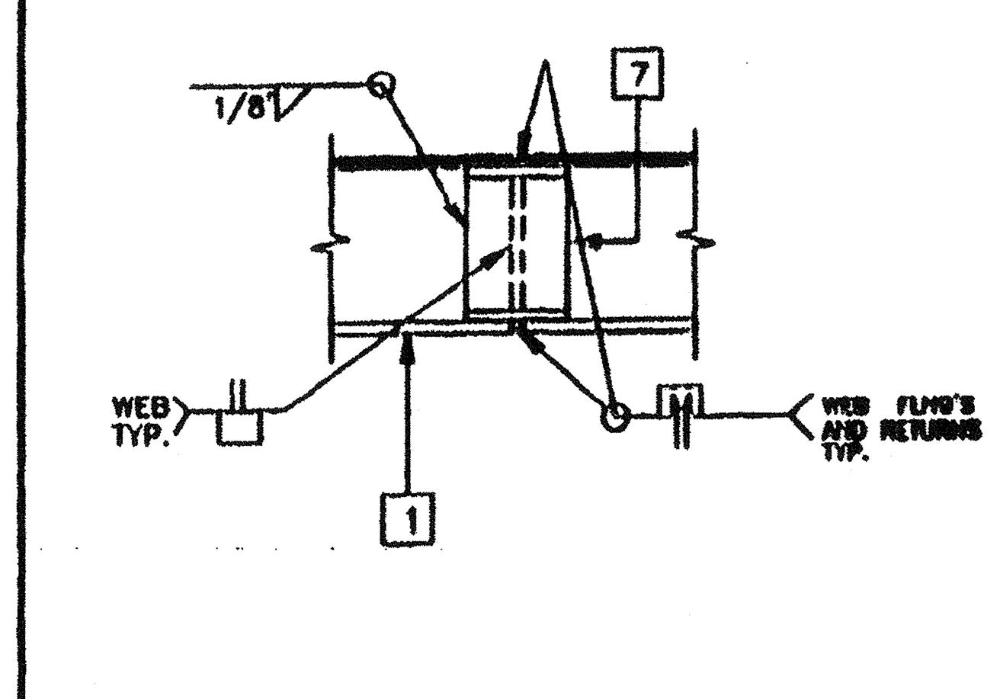
PC-04-101419 PROJECT NO. 4097



PURLIN AT MOD LINE WALLS 13

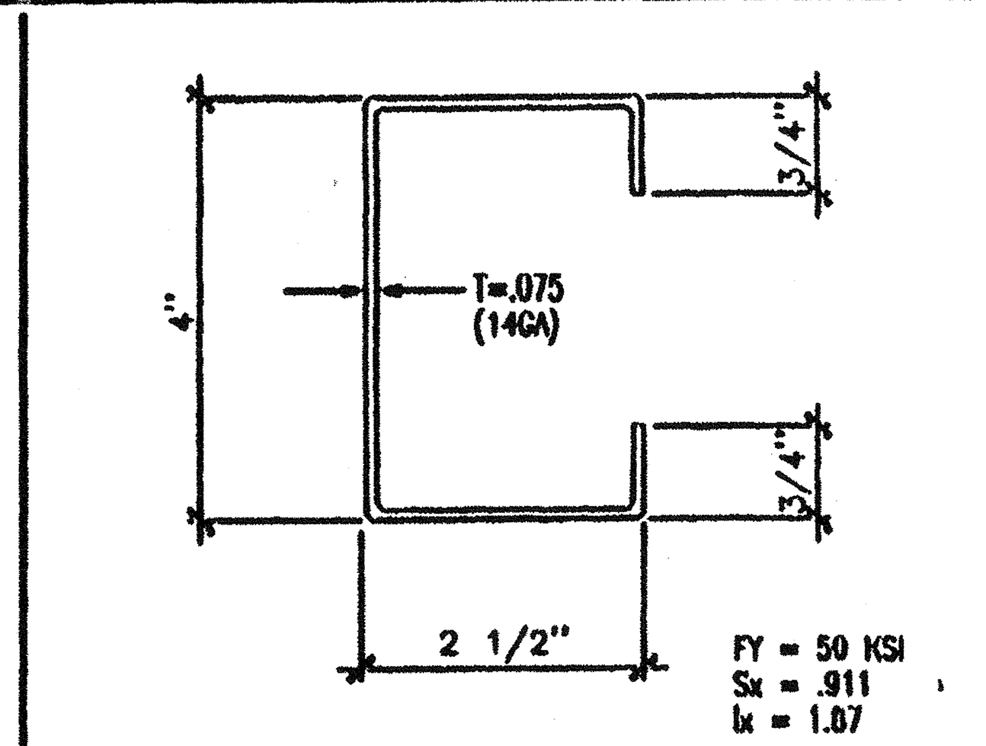


PURLIN AT EXT. SIDE WALLS 11

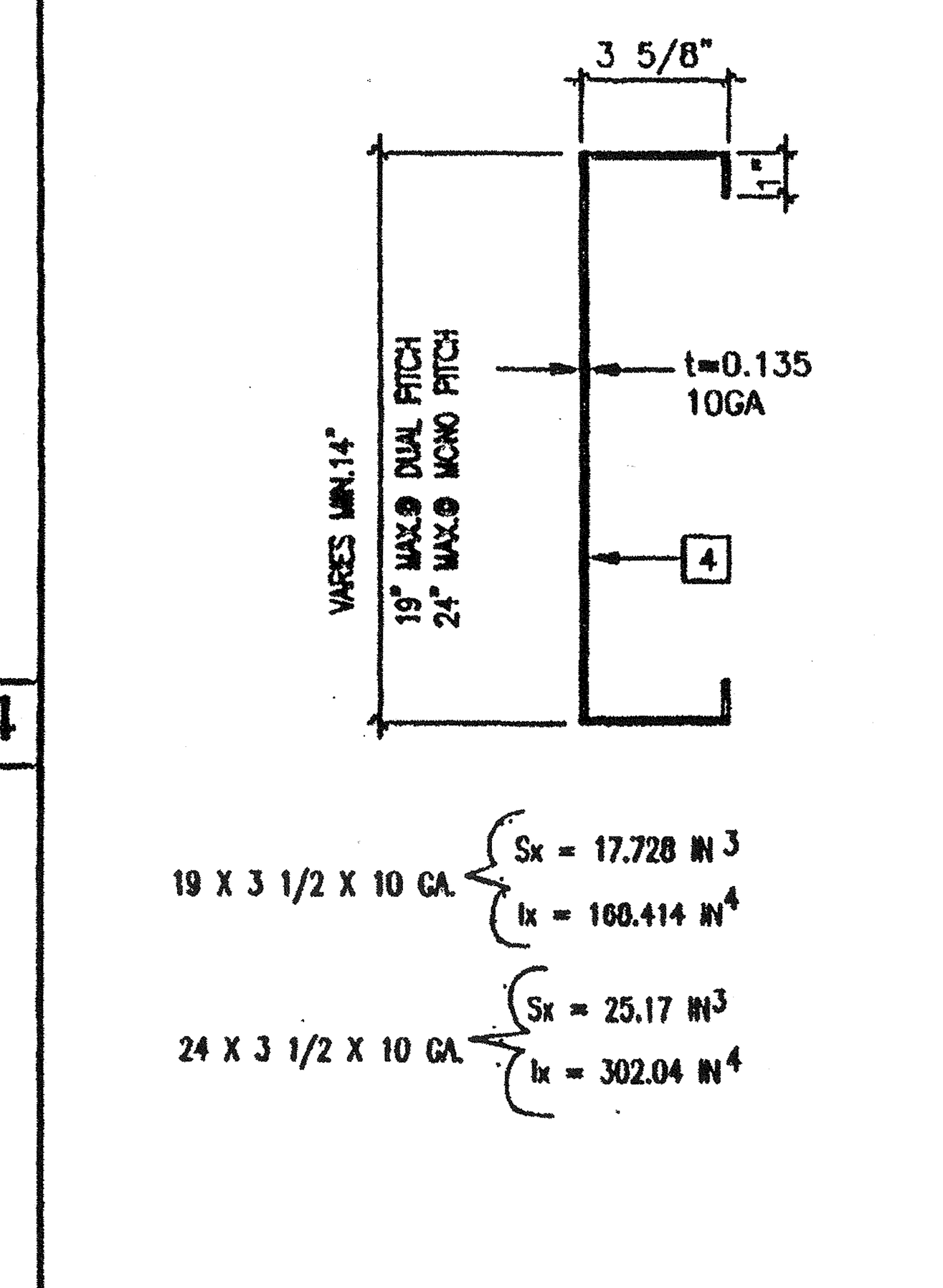


SCALE: 3"=1'

BEAM SPLICE AT RIDGE 8

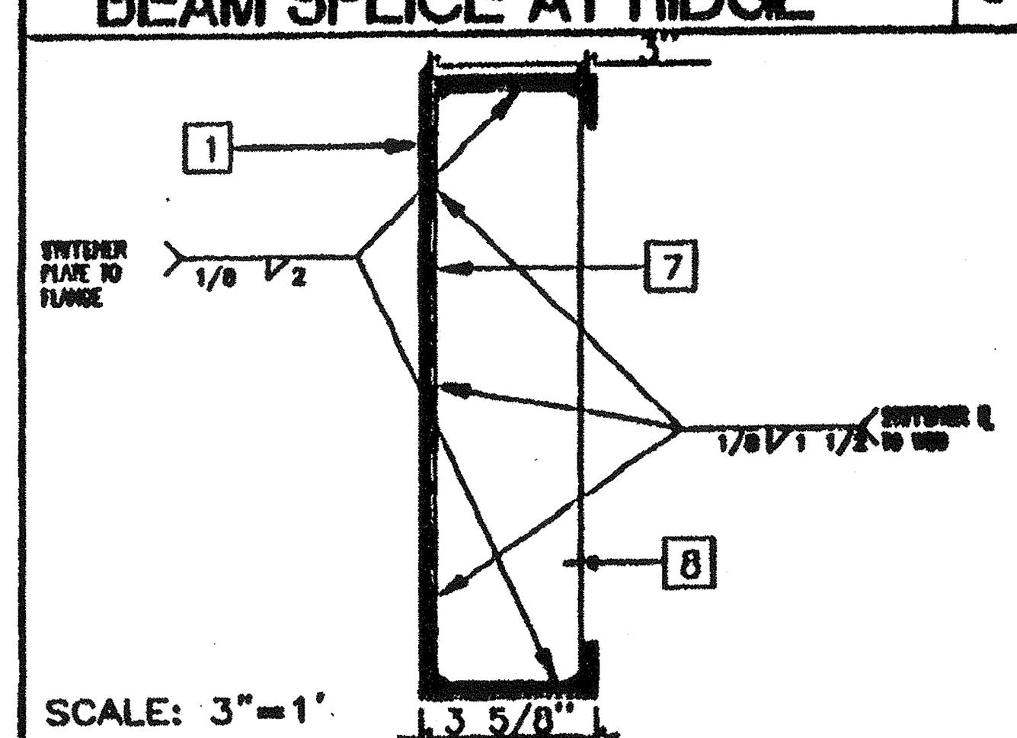


OPTIONAL FACIA AT 5' OVERHANG BM. 4



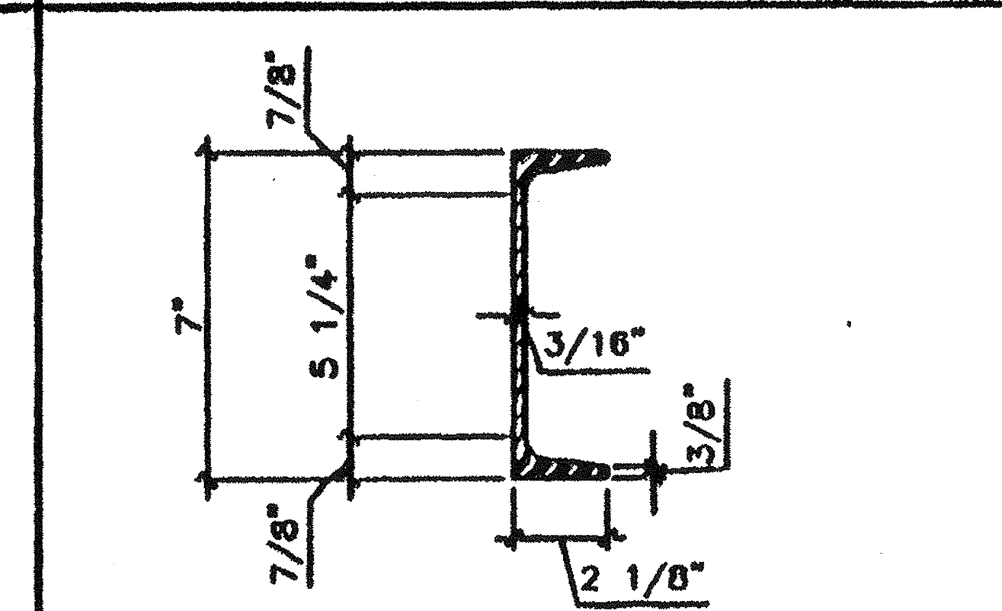
SCALE: 3"=1'

TAPERED ROOF BEAM 1



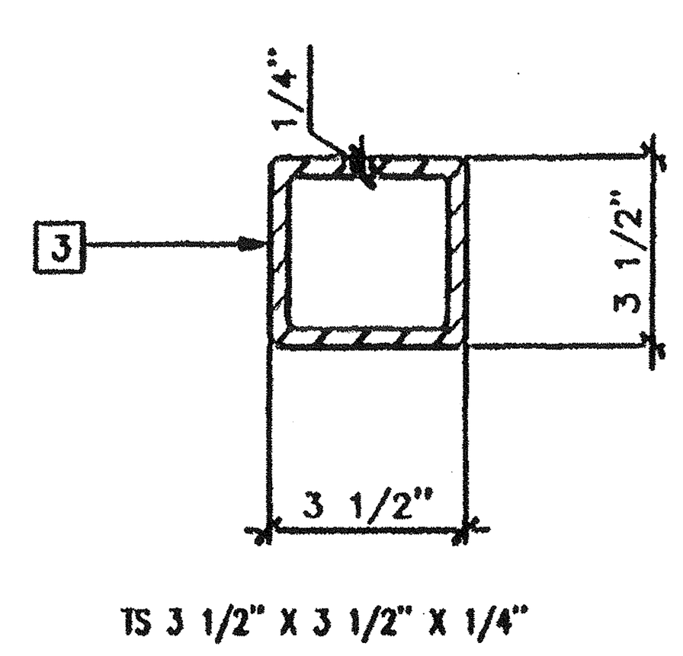
SCALE: 3"=1'

BEAM SPLICE W/STIFFENER 9

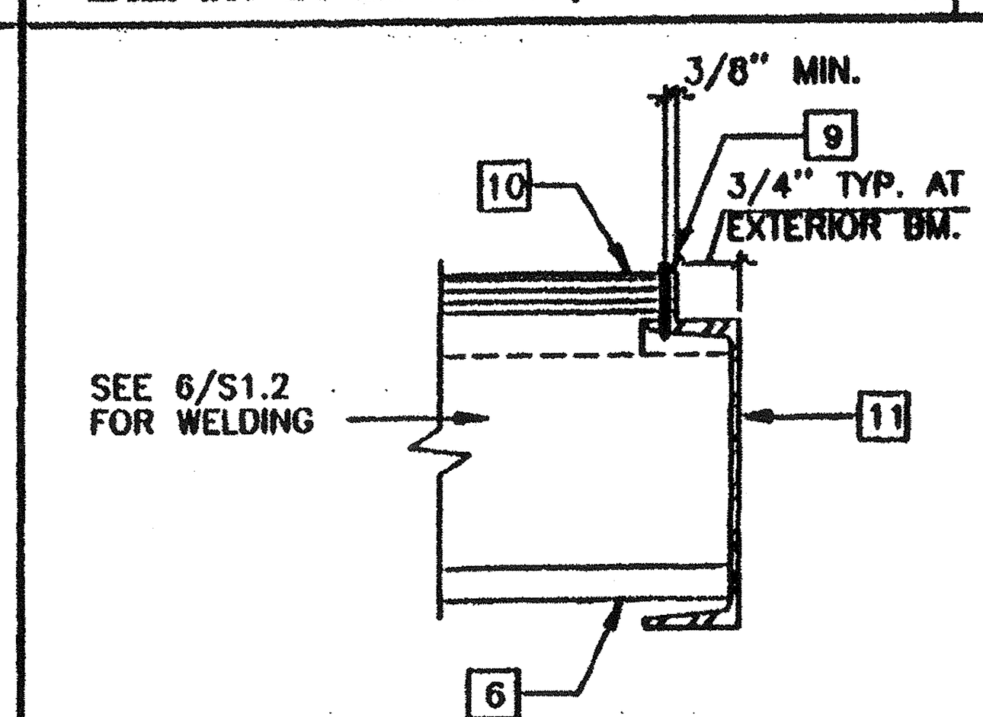


SCALE: 3"=1'

FLOOR BEAM C7X9.8 5

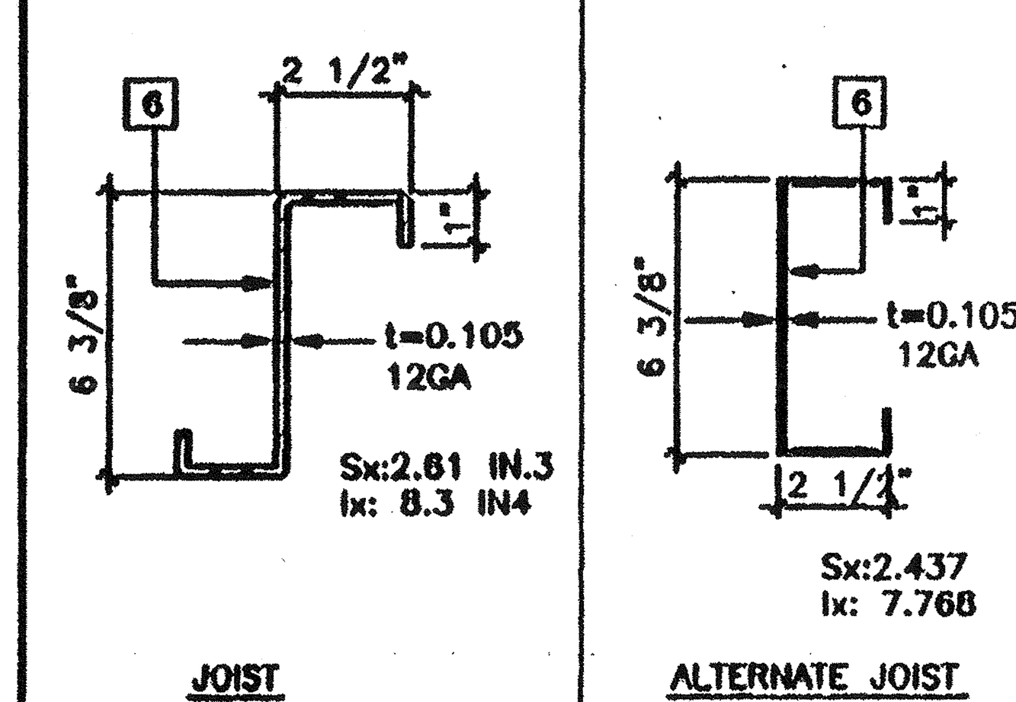


CORNER COLUMN 12

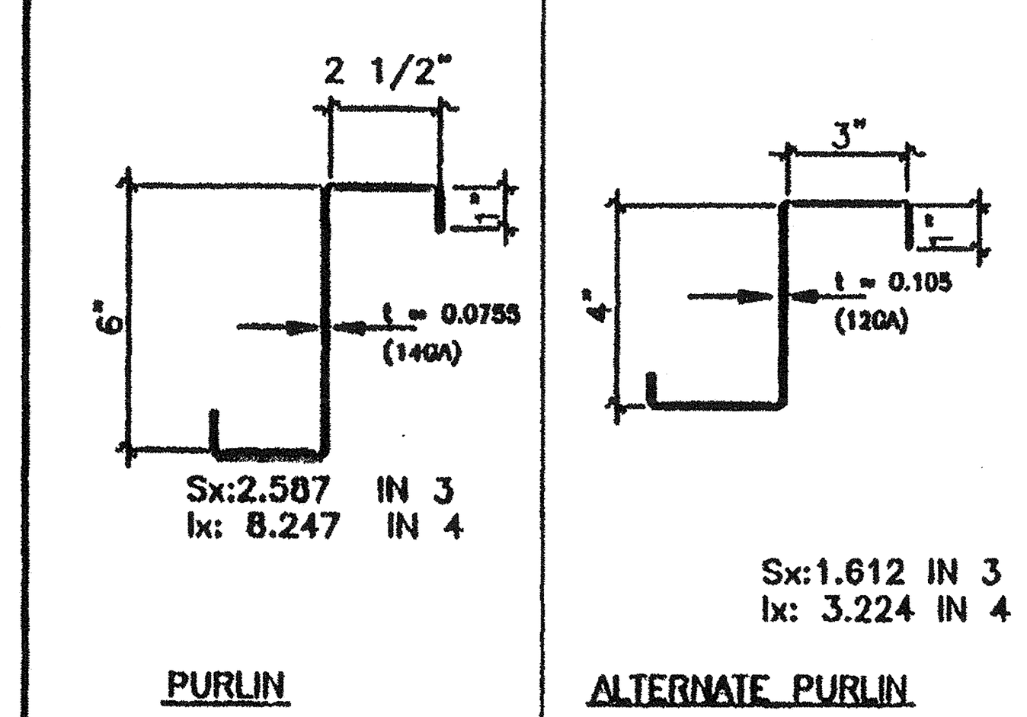


SCALE: 3"=1'

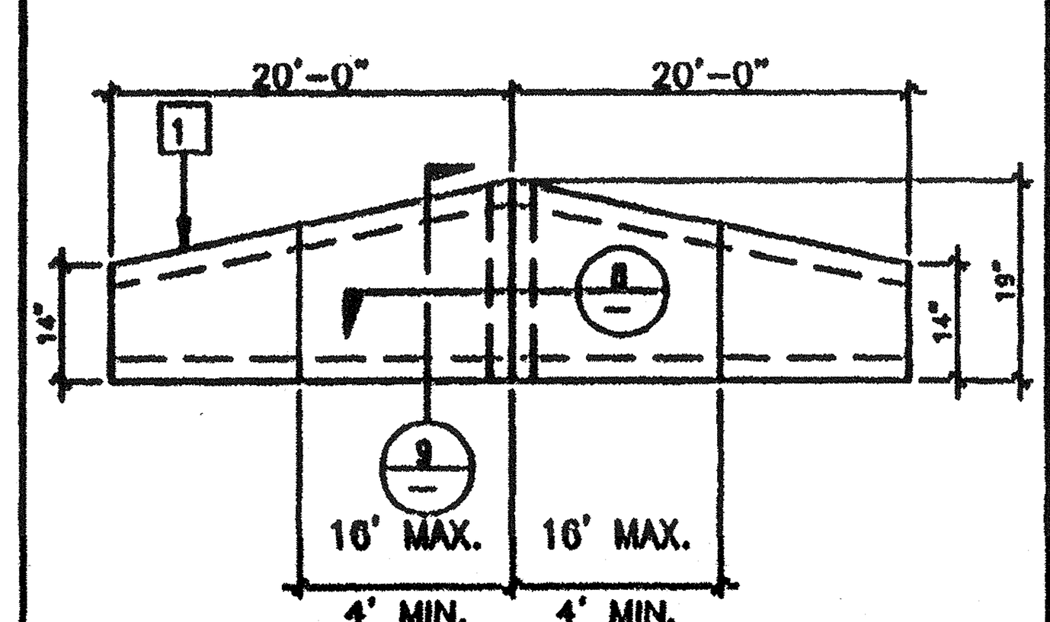
FLR LOIST AT FLOOR BEAM 10



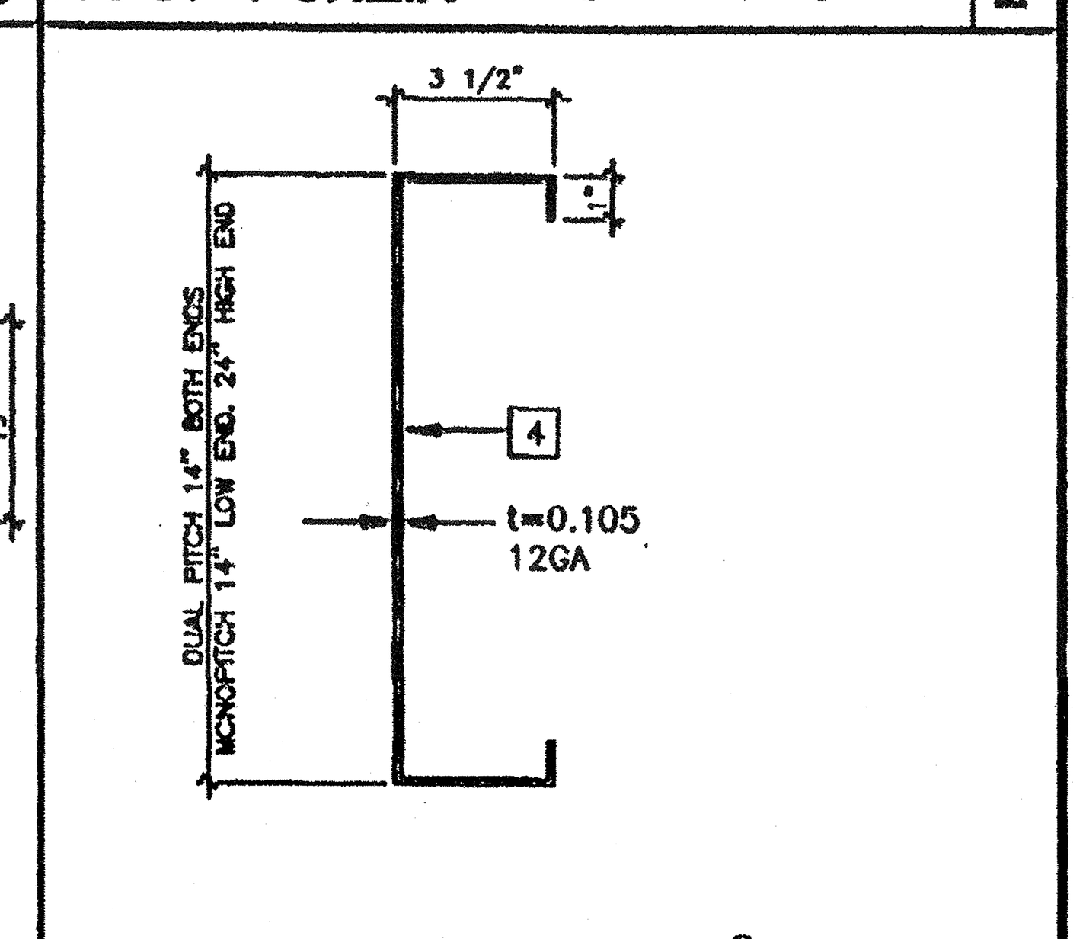
FLOOR JOIST 6



ROOF PURLIN 3" = 1'-0" 2



BM. SPLICE @ RIDGE (DUAL SLOPE) 7



SCALE: 3"=1'

Sx
Ix

ROOF HEADER 3

CBC 1998

PC

KEY NOTES

1. 10GA. TAPERED RF. BM. SEE 7/S2.1 &1/S2.1
2. NOT USED
3. TS 3 1/2"X3 1/2"X1/4" COLUMN
4. [14"X10GA. RF. HDR. SEE 3/S2.1
5. NOT USED
6. FLOOR JOIST SEE 6/S2.1
7. 10GA. BENT PLATE BACK-UP
8. STIFFENER PLATE 3"X1/4" THICK AT 4'-0" OC
9. #10 STSMS @ 6" O.C. (SEE S1.0)
10. PLYWOOD FLR. SHEATHING
11. FLOOR BEAM SEE 5/S2.1
12. NOT USED
13. ⌐ 6" X 2 1/2" X 14GA PURLIN
    ALT: ⌐ 4" X 3" X 12GA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP 03 118937
AC FLS SS
DATE APR 03 2018

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 104810
DATE JUN 06 2002

REVISIONS

Electrical Engineer's Seal | Mechanical Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
PC-04
101419

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

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WILLIAMS SCOTSMAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

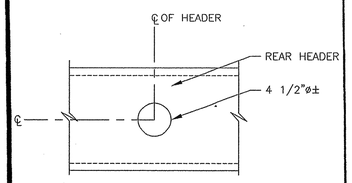
STRUCTURAL DETAILS

S2.1

FILE PATH: 2440-0-S2-1.DWG

PROJECT NO. 4097

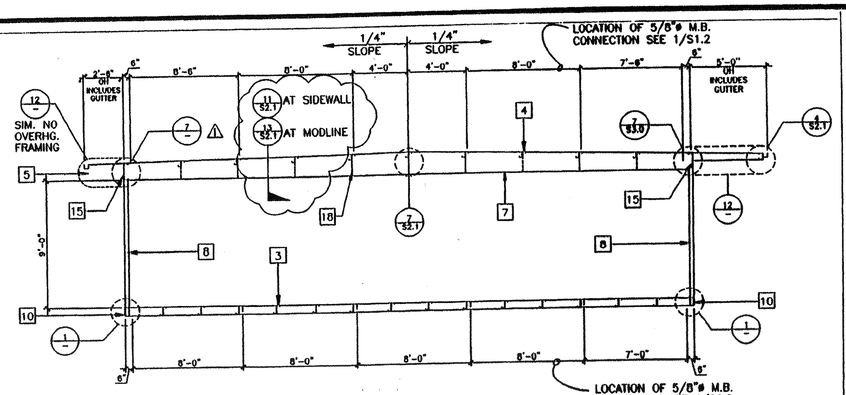
PC-04-101419



NOTE: OFFSET ON MODULES WITH HVAC UNITS

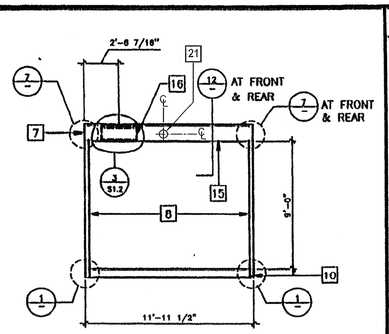
SCALE: N.T.S.

ATTIC RELIEF VENT | 10



DUAL PITCH

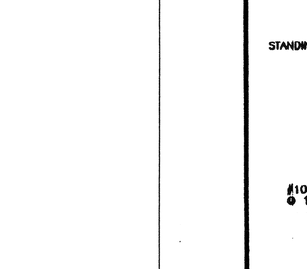
SECTION AT SIDEWALL | B



SECTION AT ENDWALL | A

KEY NOTES

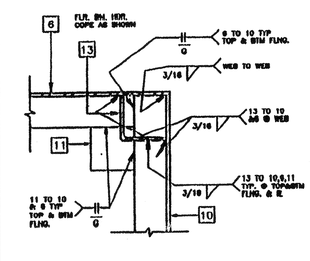
1. EN ❶ PLYWOOD EDGES
2. 22GA STANDING SEAM ROOF
3. 6 3/8"X2 1/2"X12GA. FLR. JOIST 6/S2.1
4. 6X2 1/2"X14GA. ROOF PURLIN 2/S2.1
5. 3"X3"X3"X26GA ROOF END CLOSURE W/#10 STSMS W/NEOPRENE WASHER TOP & BOTT.
6. [7 X 9.8 FLOOR HEADER
7. [10 GA. TAPERED ROOF BEAM (SEE 3/S2.1) OR 12/S2.1 REFER TO RF. FRAMING PLAN
8. T.S. 3 1/2"X3 1/2"X1/4" COLUMN
9. BACK-UP PLATE MIN. 10 GA.
10. [7X9.8 FLOOR CHANNEL -
11. 3 1/2"X3 1/2"X1/4" STEEL PLATE WELDED FLUSH TO TOP AND BOTTOM OF CHANNEL FLANGES
12. NOT USED
13. 3 1/2X3 1/2X1/4 STIFFENER ANGLE COPE TO FIT C7 X 9.8
14. STIFFENER TS 3 1/2X3 1/2X1/4
15. [14"X3 1/2"X12GA. HEADER (SEE 3/S2.1)
16. LOCATION OF HVAC OPENING
17. 3"X3"X1/4" THICK X 1/2" LONG INSERT POST
18. 1/4" FULL DEPTH STIFFENER PLATE AT 4'-0" OC AT EXTERIOR SIDEWALLS ONLY FOR 80 MPH DESIGN WIND LOAD ONLY AND 8' O.C. AT INT. MOD LINES.
19. 1/4" BASE PLATE-INSERT FLUSH WITH STIFFENER TUBE
20. (1) 3"x3"x10 GA TUBE STEEL BACK-UP TUBE OR (4) 10 GA BACK-UP PLATES
21. ATTIC RELIEF VENT 4 1/2" Ø HOLE



SEE 4/S2.1

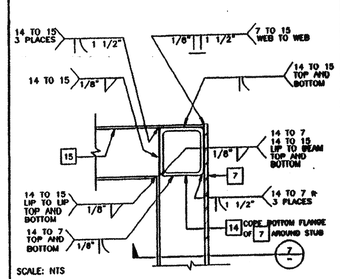
SECTION THRU OVERHANG BEAM | 11

SCALE: N.T.S.



SCALE: 3"=1'

STIFFENER SECTION AT FLOOR | 8



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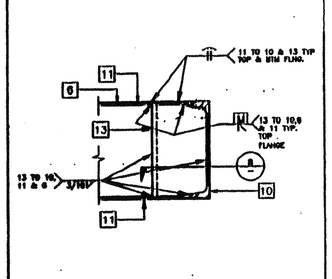
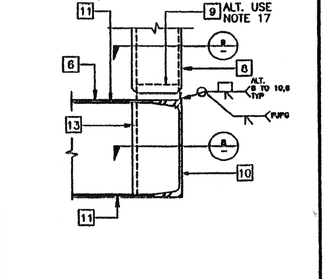
STIFFENER AT ROOF | 6



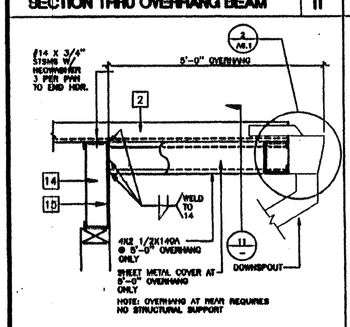
SCALE: 3"=1'

COLUMN CONN. AT FLOOR | 4



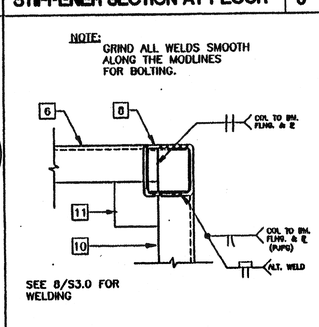
SCALE: 3"=1'

COLUMN CONN. AT FLR. | 1



SCALE: N.T.S.

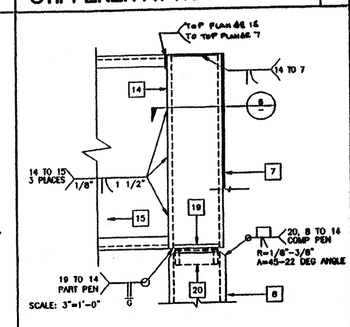
GUTTER AT OVRHNG AT FRNT AND REAR | 12



SEE 8/S3.0 FOR WELDING

SCALE: 3"=1'

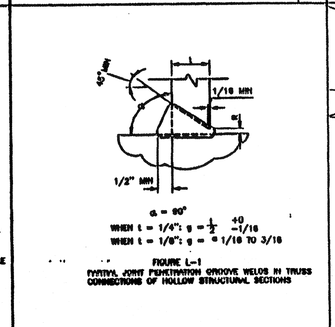
COLUMN AT FLOOR | 9



SCALE: 3"=1'-0"

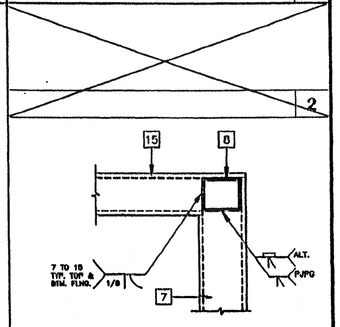
CBC 1998 | PC

COLUMN AT ROOF | 7



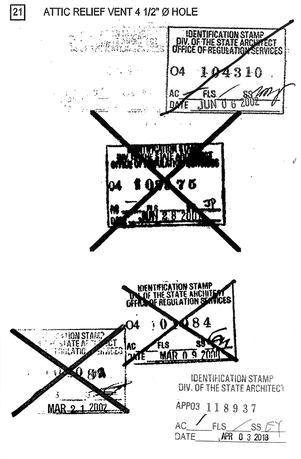
REVISED 6/8

P.J.G.P. WELD DETAIL | 5



SCALE: N.T.S.

COLUMN AT ROOF BEAM | 3



REVISIONS			
1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architect's Seal

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 OCT 25 2002

MODTECH INC.
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DRAWN BY: WQ
DATE: 3/6/02
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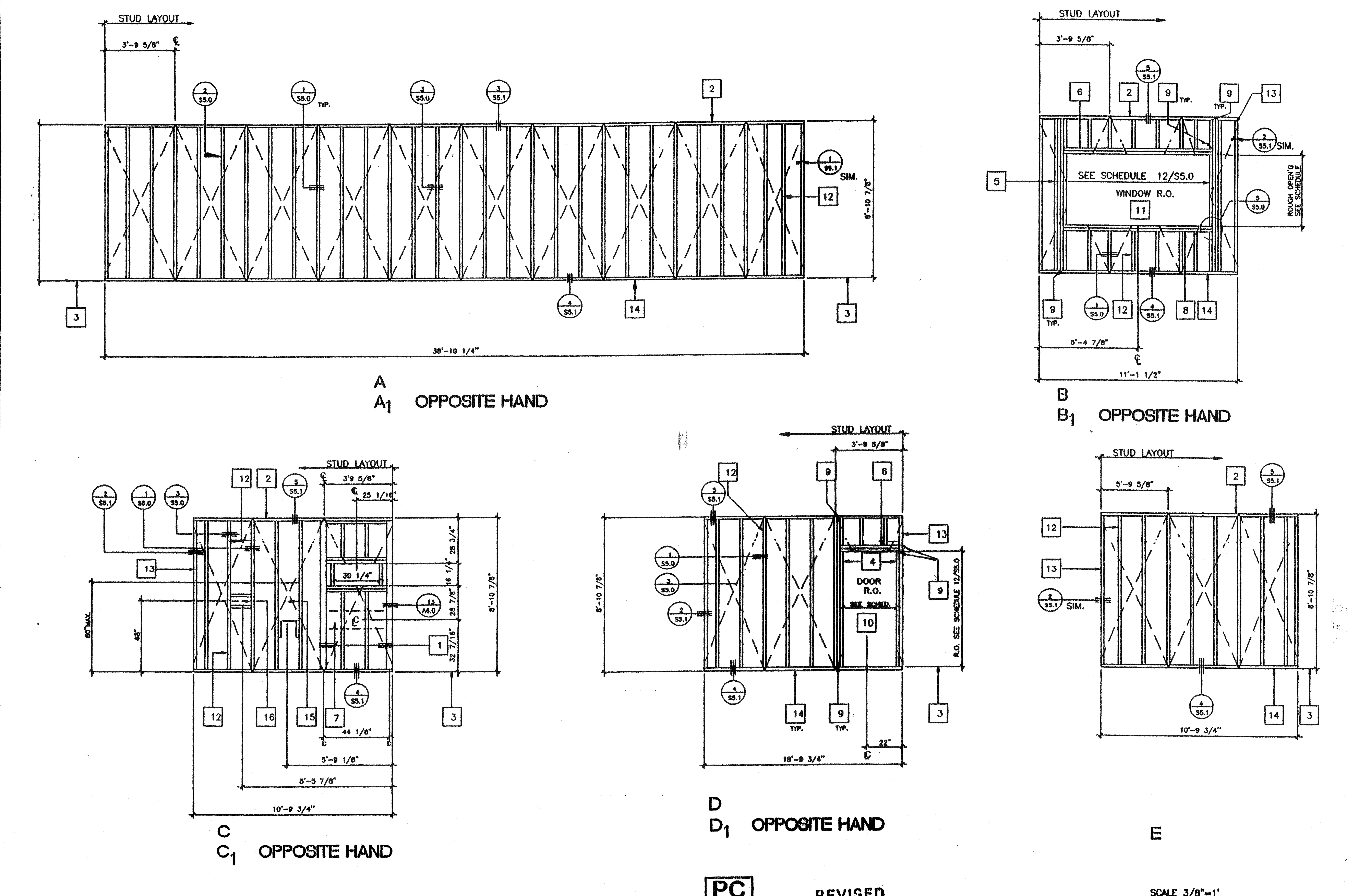
DATE:

STRUCTURAL ELEVATIONS

DRAWING NO. S3.0

PC-04-101419 PROJECT NO. 4097

FILE PATH: 2440-0-S3-0.DWG



KEY NOTES

1	4 X 4 POST ALT.:USE 2-2X4 W/FACE NAILING
2	2X4 TOP PLATE
3	FINISH FLOOR
4	2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY SHT S5.1)
5	FULL HEIGHT STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQUIRED. SHEET S5.0.
6	HEADER (SEE SCHEDULE)
7	26GA X 4" WIDE STRAP
8	WINDOW SILL PLATE (SEE SCHEDULE)
9	A 34 CLIPS AT HEADER & SILL TO FULL HGT. STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES.SEE 4/S5.0
10	REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.0)
11	REQUIRED OPENING FOR A 8040 WINDOW (SEE DETAIL 6/S5.0)
12	2X4 STUD AT 16" O.C. TYPICAL
13	2X4 NAILER TYPICAL AT EACH END
14	2X4 SILL PLATE
15	FRAME FOR ELECTRICAL PANEL
16	THERMOSTAT LOCATION 4S BOX

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104310 AC FLS SS DATE JUN 0 6 2002

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CBC 1998

REVISED DEC 9 1999

REVISIONS
1 APP DUCKING SS

Electrical Engineer's Seal | Mechanical Engineer's Seal | Architects Seal

PC-04 101419 DATE OCT 23 1999

MODTECH INC.
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PROJECT NUMBER: 4151
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DRAWN BY: WQ DATE: 3/6/02
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WALL FRAMING

WOOD STUDS

S4.0

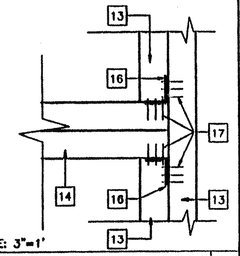
FILE PATH: 2440-0-S4-0.DWG
PROJECT NO. 4097
PC-04-101419

NAILING SHEDULE

CONNECTION	NAILING [1]
1. JIST TO SILL OR GIRDER,TOENAIL	3-8d
2. HANGARS TO JOIST, TOENAIL END END	2-8d
3. 1" X 6" (25 mm X 152mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL.	2-78d
4. WIDER THAN 1" X 8" (25 mm X 152 mm) SUBFLOOR TO EACH JOIST, FACE NAIL.	3-8d
5. 2" (51MM) SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL.	16d at 16" (406mm) o.c.
SOLE PLATETO JOIST OR BLOCKING, AT BRACED WALL PANELS	3-16d per 16" (406mm)
7. TOP PLATE TO STUD, END NAIL	2-16d
8. STUD TO SOLE PLATE	4-8d, toenail or 2-16d, end nail
9. DOUBLE STUDS, FACE NAIL	16d at 24" (610mm) o.c.
10. DOUBLE TOP PLATES, TYPICAL FACE NAIL	16d at 16" (406mm) o.c.
DOUBLE TOP PLATES, LAP SPLICE.	8-16d
11. BLOCKING BETEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL.	3-8d
12. RIM JOIST TO TOP PLATE, TOENAIL.	8d at 6" (152mm) o.c.
13. TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL.	2-16d
14. CONTINUOUS HEADER, TWO PIECES.	16d at 16" (406mm) o.c. along each edge
15. CEILING JOIST TO PLATE, TOENAIL.	3-8d
16. CONTINUOUS HEADER TO STUD, TOENAIL.	4-8d
17. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL.	3-16d
18. CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL.	3-16d
19. RAFTER TO PLATE, TOENAIL.	3-8d
20. 1" (25 mm) BRACE TO EACH STUD AND PLATE, FACE NAIL.	2-8d
21. 1" X 8" (25 mm X 203 mm) SHEATHING OR LESS TO EACH BEARING, FACE NAIL.	2-8d
22. WIDER THAN 1" X 8" (25mm X 203mm) SHEATHING TO EACH BEARING, FACE NAIL.	3-8d
23. BUILT-UP CORNER STUDS	16d at 24" (610mm) o.c.
24. BUILT-UP GIRDER AND BEAMS.	20d AT 32" (813 mm) O.C. AT TOP AND
BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE.	BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE.
25. 2" (51mm) PLANKS	
26. WOOD STRUCTURAL PANELS AND PARTICLEBOARD:[8] (1 INCH=25.4mm)	
SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING):	
1/2" AND LESS	6d[3]
19/32" – 3/4"	8d[4] OR 8d[5]
7/8" – 1"	8d[3]
1 1/8" – 1 1/4"	10[4] OR 8d[5]
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING): (1 INCH=25.4mm)	
3/4" AND LESS	8d[5]
7/8" – 1"	8d[5]
1 1/8" – 1 1/4"	10d[4] OR 8d[5]
27. PANEL SIDING (TO FRAMING):	
1/2" (13 mm) OR LESS	6d[6]
5/8" (16 mm)	8d[6]
28. FIBREBOARD SHEATHING	
1/2" (13 mm)	NO. 11 GA[9] 8d[4]
25/32" (20 mm)	NO. 16 GA.[9] NO 11 GA.[9] 8d[4] NO.16 GA.[9]
29. INTER PANELING	
1/4" (6.4 mm)	4d 10
3/8" (9.5 mm)	6d 11

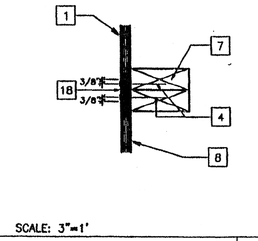
NOTE: All nail shall be box nails unless otherwise noted.

1. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
2. NAILS SPACED AT 6"(152MM) ON CENTER AT EDGES, 12"(305MM) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152MM) AT ALL SUPPORTS WHERE SPANS ARE 48"(1219MM) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE DIAPHRAMS AND SHEAR WALLS, REFERTO SECTION 2314.3. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
3. COMMON OR DEFORMED SHANK
4. COMMON
5. DEFORMED SHANK
6. CORROSION–RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2320.1.
7. FASTENERS SPACED 3 INCHES(76MM) ON CENTER AT EXTERIOR EDGES AND 6 INCHES(152MM) ON CENTER AT INTERMEDIATE SUPPORTS.
8. CORROSION–RESISTANT ROOFING NAILS W/7/16(11MM) HEAD AND 1 1/2 INCH(38MM) LENGHT FOR 1/2 INCH(13MM) SHEATHING AND 1 3/4 INCH(44MM) LENGHT FOR 25/32 INCH(20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2320.1.
9. CORROSION–RESISTANT STAPLES WITH NOMINAL 7/16 INCH(11MM) CROWN AND 1 1/8 INCH(29MM) LENGHT FOR 1/2 INCH(13MM) SHEATHING AND 1 1/2 INCH(38MM) LENGHT FOR 25/32 INCH(20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2320.1.
10. PANEL SUPPORTS AT 16 INCHES(406MM) 120 INCHES(305MM) IF STRENGHT AXIS IS IN THE LONG DIRECTION OF PANEL UNLESS OTHERWISE MARKED. CASING OR FINISH NAILS SPACED 6 INCHES(152MM) ON PANEL EDGES. 12 INCHES (152MM) AT INTERMEDIATE SUPPORTS.
11. PANEL SUPPORTS AT 24 INCHES(610MM). CASING OR FINISH NAILS SPACED 6 INCHES(152MM) ON PANEL EDGES. 12 INCHES(305MM) AT INTERMEDIATE SUPPORTS.



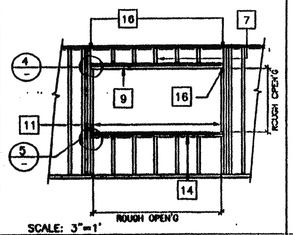
SCALE: 3"=1'

9 WINDOW SILL AT JAMB 5



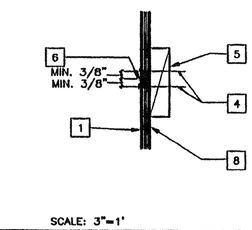
SCALE: 3"=1'

DETAIL AT VERT. PLYWOOD EDGES 1



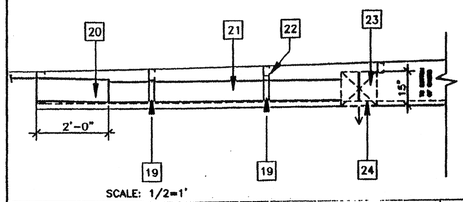
SCALE: 3"=1'

10 TYP. WINDOW FRAMING 6



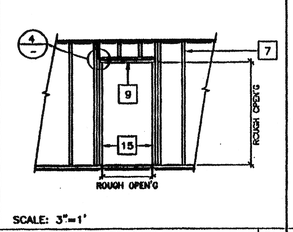
SCALE: 3"=1'

DETAIL AT HORIZ. PLYWOOD JOISTS 2



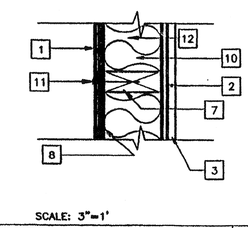
SCALE: 1/2=1'

SECTION: HVAC IN ROOF 11



SCALE: 3"=1'

TYP. DOOR FRAMING 7



SCALE: 3"=1'

SECTION AT STUD 3

OPENING SCHEDULE				ROUGH OPENING	
OPENING	HDR.	SILL	JAMB	HEIGHT	WIDTH
3068	(2) 2X4	(2) 2X4	(2) 2X4 *	81 1/4"	36"
8040 **	(3) 2X4	(2) 2X4	(3) 2X4 *	48 1/8"	96 1/8"

* FULL HEIGHT STUDS

** ALL WOOD WINDOW HEADER SHALL BE D.F./ LARCH #2 GRADE

ALTERNATE: METAL STUD 3 1/2 " X 20 GA.
IN LIEU OF 2X4 WD. STUDS

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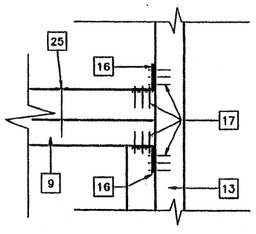
ROUGH OPENING SCHEDULE 12



SCALE: 3"=1'

8 HEADER DETAIL 4

KEY NOTES

1	EXTERIOR PLYWOOD SIDING – SHEATHING NAIL W/GALV. BOX NAILS –8d AT 6" O.C. EDGES, 8d AT 12" O.C. IN FIELD
2	GYP. BOARD
3	TYP. INTERIOR FINISH–SEE FINISH SCHEDULE
4	E.N.
5	2X4 BLK'G
6	"Z" FLASHING
7	2X4 AT 16" O.C./DBL. 2X4 AT VERT. SIDING JOINT
8	WATERPROOF MEMBRANE
9	HEADER (SEE SCHEDULE S5.0)
10	INSULATION (SEE SPECIFICATIONS)
11	8d ELECTRO GALV. 12" O.C.FN.
12	2X4 SILL PLATE (BELOW)
13	FULL HEIGHT STUDS AND 1–2X4 TRIMMER (SEE OPENING SCHEDULE FOR JAMB STUDS REQ'D FOR DOORS & WINDOWS ONLY)
14	SILL PLATE (SEE SCHEDULE)
15	2X4 FULL HEIGHT KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY)
16	A 34 CLIPS AT HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
17	9GA. 8d 1 1/2" NAILS
18	LAP JOINT
19	2" WIDE DUCT SUPPORT STRAP @ 48" O.C.
20	PLENUM
21	DUCTWORK
22	ROOF PURLIN
23	TRANSFER BOX
24	ROOF CHANNEL
25	16D @ 16" O.C.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 118937
AC. FLS SS
DATE APR 03 2003

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OFFICE OF REGULATION SERVICES
04 104310
AC. FLS SS
DATE JUN 06 2002

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 105075
AC. FLS SS
DATE JUN 28 2001

NOTES

1. NAILING:
-NAILING IN ACCORDANCE W/ T.24 C.A.C TABLE 2-25 P
-ALL NAILS EXPOSED TO WEATHER SHALL BE GALV.
-MACHINE APPLIED NAILING SHALL HAVE PRIOR DEMOSTRATION AND APPROVAL BY O.S.A. / DSA FIELD REP. AND THE ARCHITECT.

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04 104316
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04 104184
AC. FLS SS
DATE MAR 09

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1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal — LICENSED ARCHITECT — 12/31/03 — STATE OF CALIFORNIA

Architects Seal

EXPIRATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC-04
101419
AC. DATE OCT 23 2003

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PROJECT NUMBER: 4151
WILLIAMS SCOTSMAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

FRAMING DETAILS WOOD STUDS

MODTECH Index No.
S5.0

PROJECT NO. 4097

PC-04-101419

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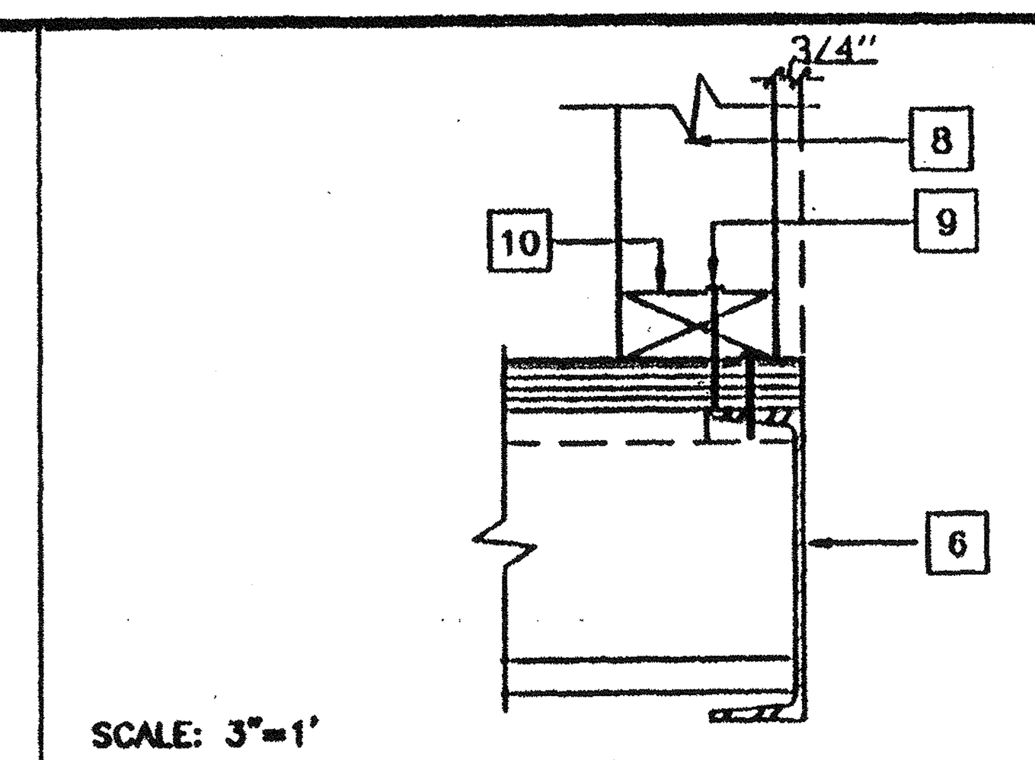
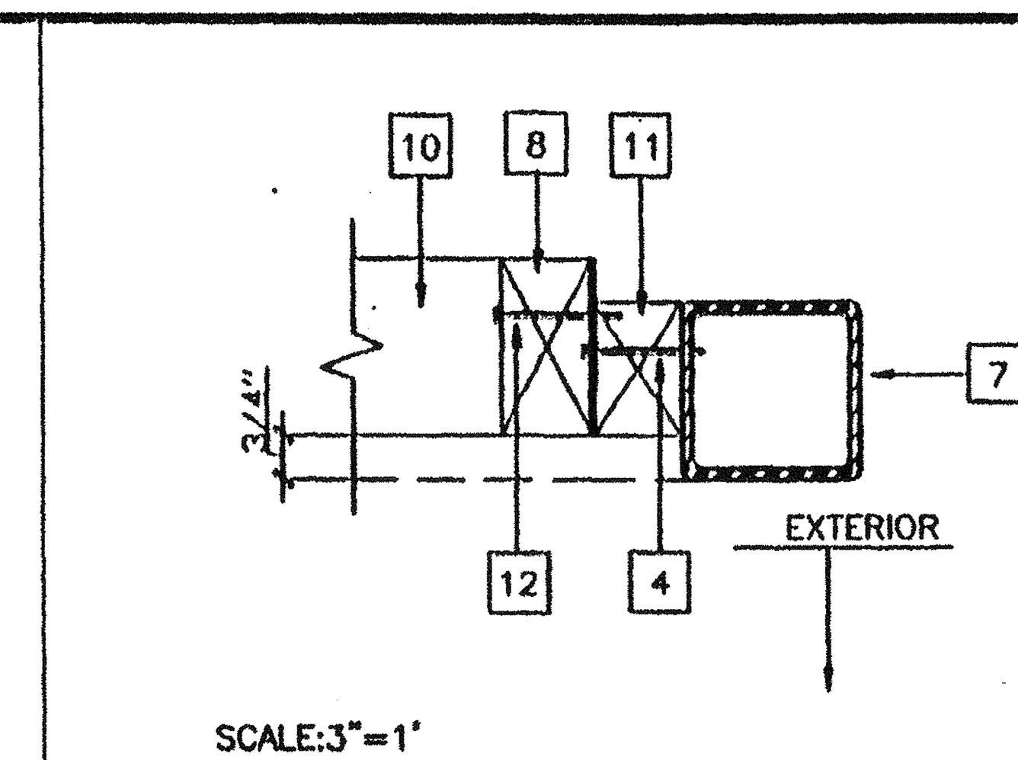
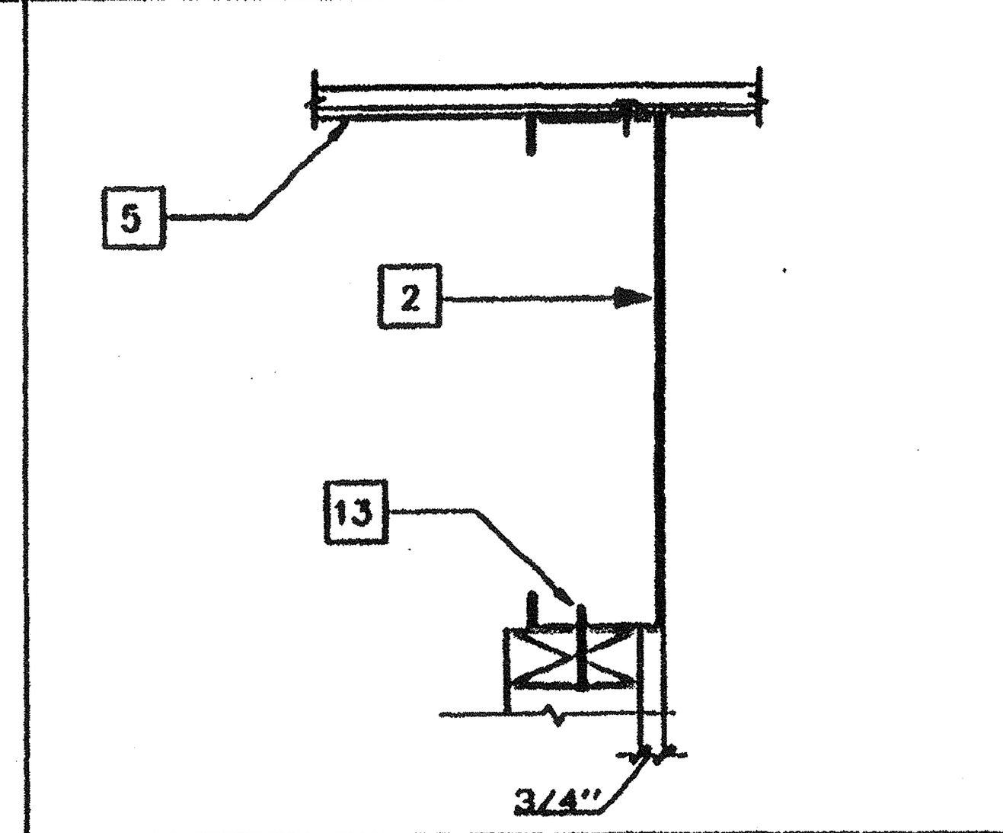


PLATE • FLOOR 4

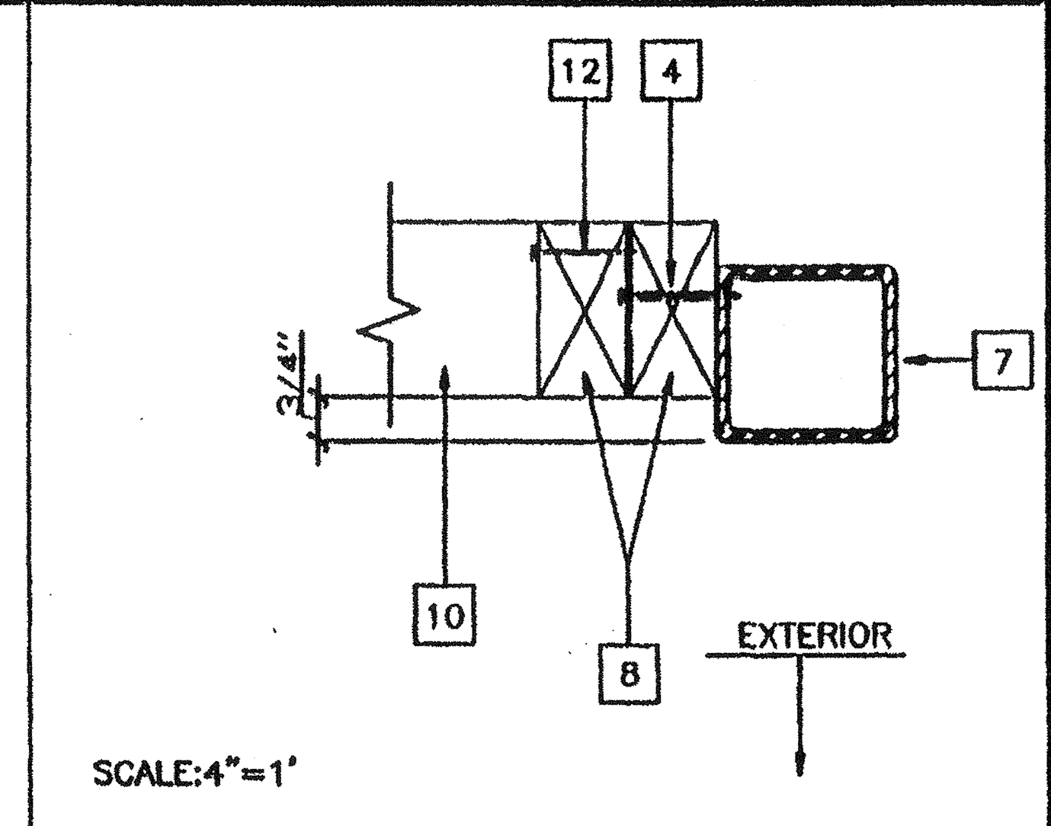


COLUMN • SIDEWALL. 1

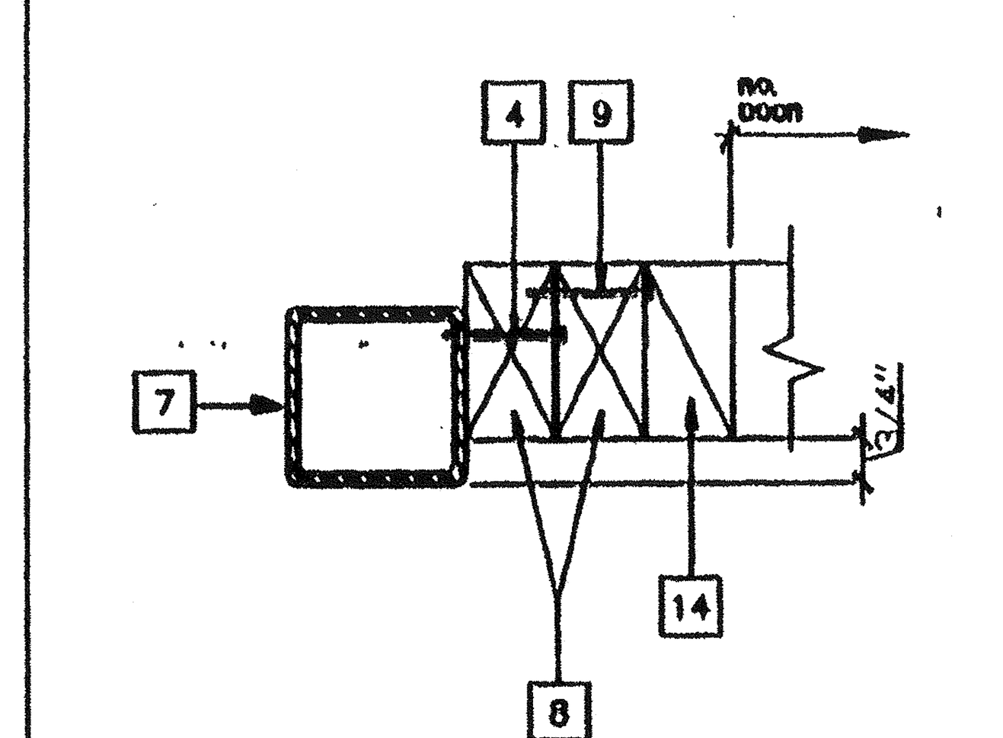
ENDWALL•ROOF HDR. 9



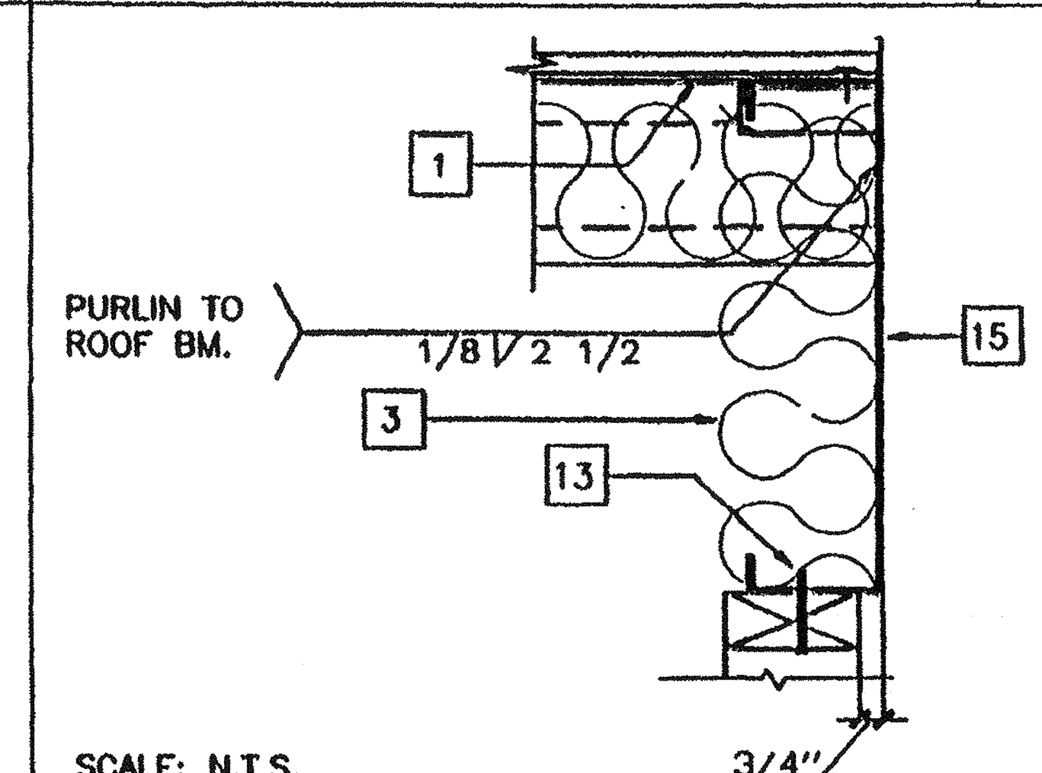
END WALL•ROOF HEADER 5



COLUMN • ENDWALL 2



COL.•ENDWALL/DOOR 6



ROOFPURLIN • ROOFBEAM 3

17 13 10 14 18 11 15 19 12 16 20 8

KEY NOTES

1	22 GA. MTL. ROOF DECK
2	[12GA. X 14" HEADER .
3	INSULATION SEE SPEC'S.
4	#10 S.T.S.M.S @24" O.C. OR 0.145ø SHOT PIN AT 24" O.C.
5	STANDING SEAM ROOF BEAM (SEE STRUCTURAL)
6	FLOOR BEAM (SEE STRUCTURAL)
7	TUBE STEEL COLUMN.
8	2X4 STUD @ 16" O.C. TYP.
9	16d BOX NAILS @ 8" O.C.
10	2X4 SILL PLATE.
11	2X TRIMMER @ CORNER.
12	16d @ 24"O.C.
13	#10 S.T.S.M.S @ 16"O.C. OR AEROSMITH AKN 144.0175 DRIVE PIN.
14	2X4 TRIM
15	ROOF BEAM

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PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

WALL FRAMING DETAILS WOOD STUDS

DRAWN BY: WQ DATE: 3/6/02
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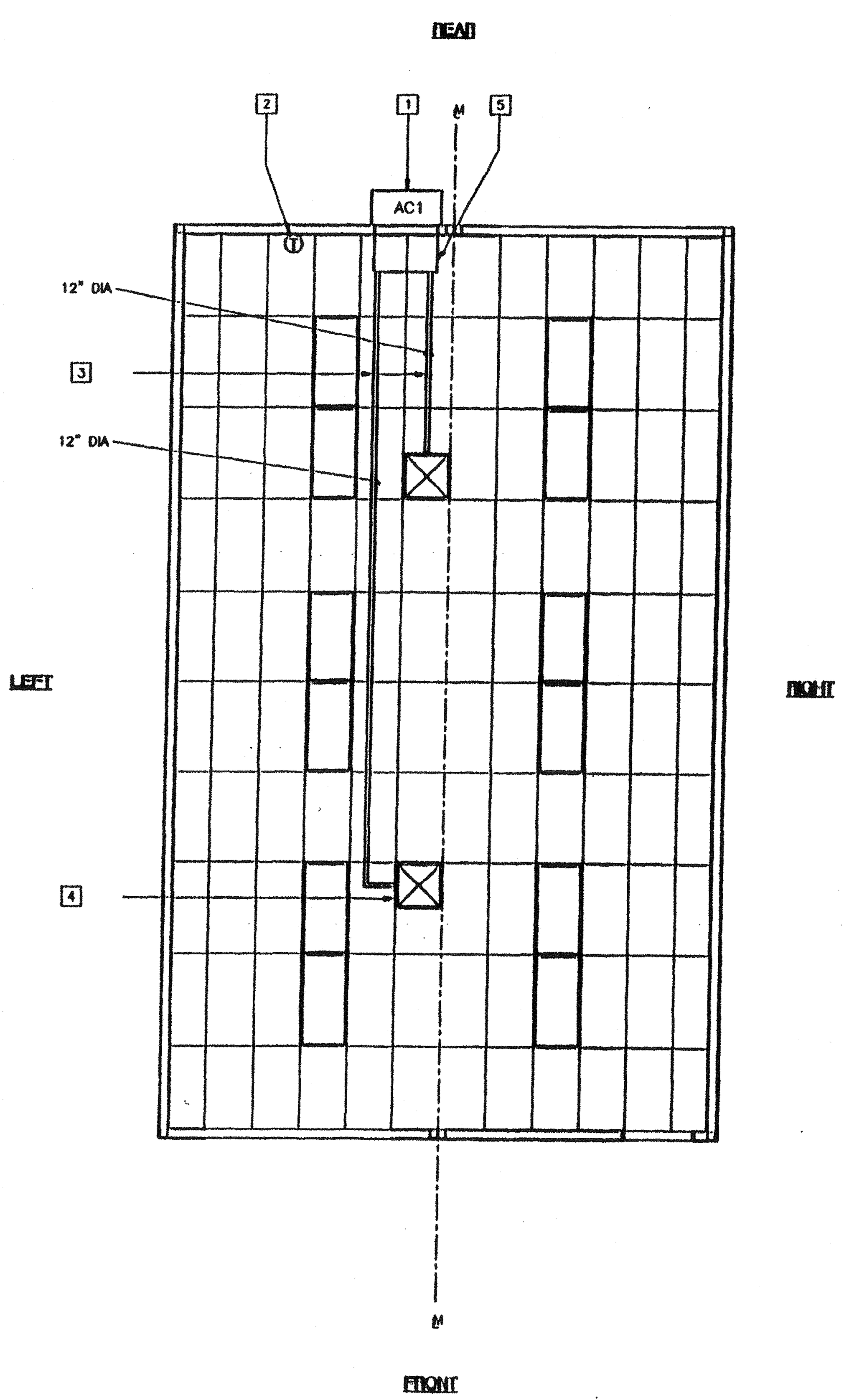
MODTECH Index No.

S5.1

PC-04-101419 PROJECT NO. 4097



MECHANICAL (HVAC) PLAN

(24'x40')

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

CBC 1998

KEY NOTES

1. AC1: WALL MOUNT 3.5 TON HEAT PUMP WITH 5KW HEATER OLA AND CALIFORNIA STATE ENERGY APPROVED 208/230V, 1 PHASE, 28 AMP WEIGHT 515 LBS
2. THERMOSTAT AT 48" AFF (SEE SPECS)
3. FLEX DUCT GALVANIZED PLENUM 80" WITH GALVANIZED IRON REGISTER BOXES GAGE PER ASHRAE CODE REQUIREMENTS FLEX DUCT PER CODE AND SIZING PER .1" S.P. INSULATE WITH 1" LINER INSULATION PER: SPECIFICATIONS SECTION #3.23.2.1
4. 15"x15" 4 WAY SUPPLY AIR GRILLE
5. 10"x30"x24" PLENUM (SEE SPECS)

NOTES

1. INSULATION APPLIED TO EXTERIOR SURFACE OF DUCTS LOCATED IN BLDGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE-DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION, INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED
2. SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM CCR TITLE 24, SECTION 1632A AND TABLE 16A-O. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 TIMES THE ABOVE VALUES AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 TIMES THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE , Z = 4

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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104310 JUN 2002

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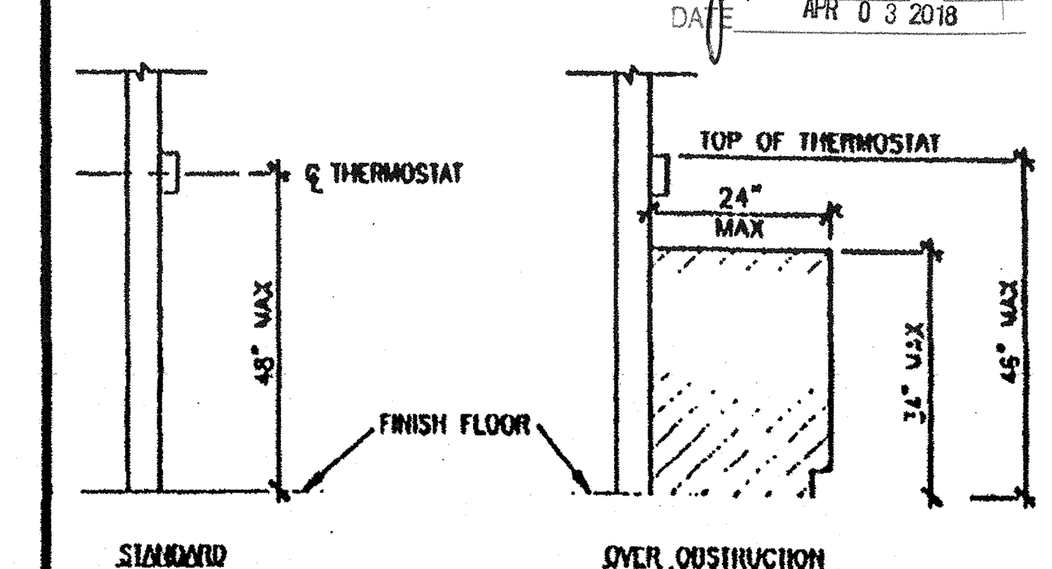

THERMOSTAT ACCESS 1

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MODTECH INC.
2830 BARRETT AVENUE
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PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY: SS
DATE: 10/22/99
MODTECH Index No.

MECHANICAL (HVAC) PLAN 3 1/2 TON

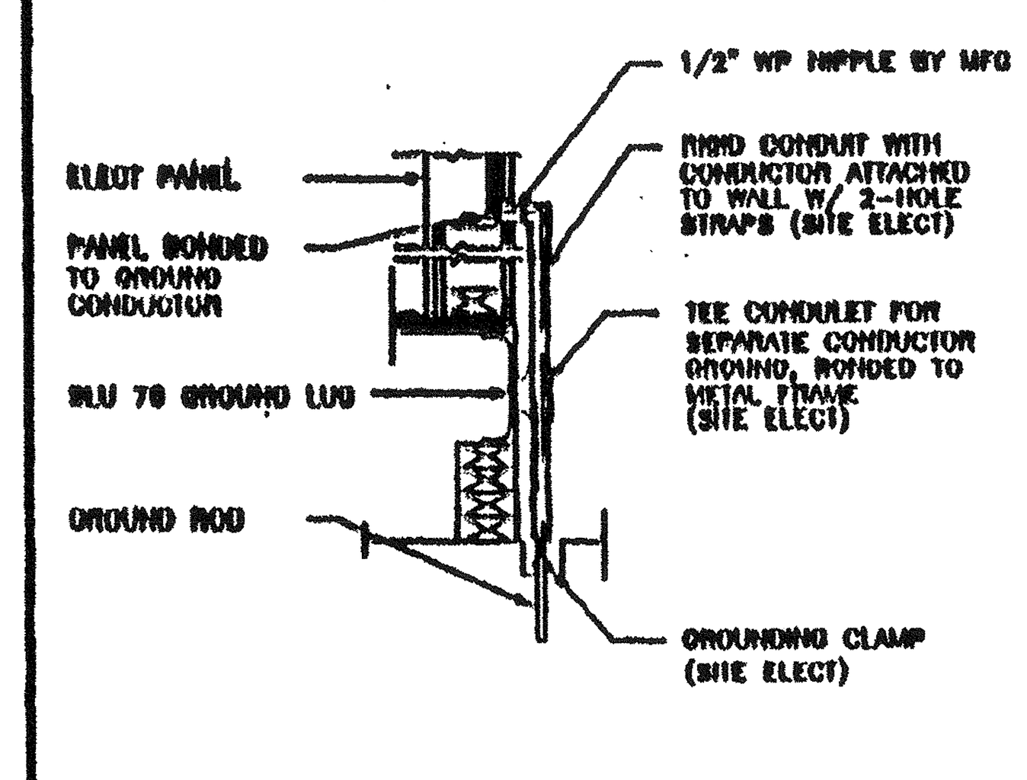
M1.0

ELECTRICAL PANEL SCHEDULE

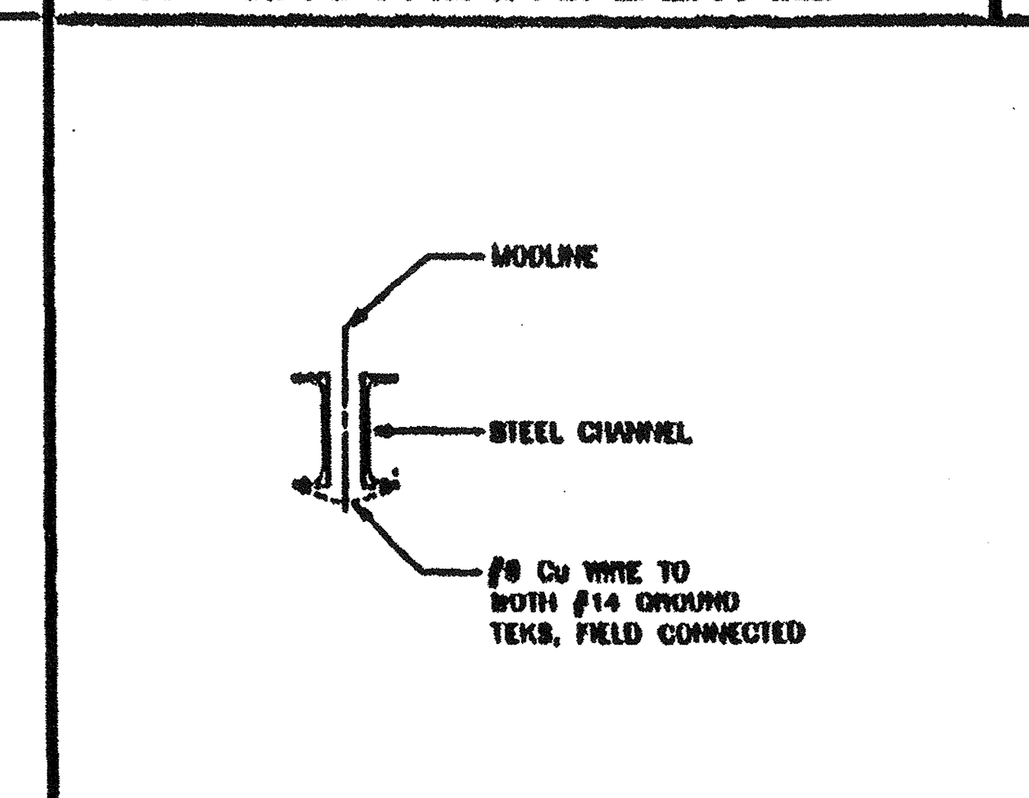
MAIN: 100 AMP 12 POLE					PANEL: A						FEED: REAR		
					LOCATION: REAR/INTERIOR						MOUNTING: FLUSH		
LOAD	WATTS		BREAKER		CKT	A	B	CKT	BREAKER		WATTS		LOAD
	A#	B#	Amps	P					P	Amps	A#	B#	
RECEPTACLE (4)	720		20	1	1			2	2	50	3540		HVAC (3 1/2T) w/ 5KW HEAT STRIP
RECEPTACLE/CLOCK (5)		900	20	1	3			4	–	–		3540	HVAC (3 1/2T) w/ 5KW HEAT STRIP
					5			6					
					7			8					
INT/EXT LIGHTS (13)	900		20	1	9			10					
INT. LIGHTS (12)		840	20	1	11			12	–	–			FIRE ALARM (DEDICATED)
WATTS/PHASE A = 5160	1620	1740									3540	3540	B = 5280 WATTS/PHASE
TOTAL 10440 WATTS	44 AMPS				120/240 VOLTS						SINGLE #		THREE WIRE
NCL = 13160 WATTS													

GENERAL GROUNDING NOTES

1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" DIA. X 8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL, OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL)
2. TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
3. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
4. GROUND ROD TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.



TYP GROUNDING DETAIL 1



GROUND JUMPER • MOD LINE 2

ELECTRICAL LEGEND

- 2'x4' 4 TUBE FLUORESCENT LIGHT FIXTURE
- EXTERIOR LIGHT FIXTURE AT +93" AFF
- SWITCH AT +48" AFF
- DUPLEX WALL RECEPTACLE 15A 125V 3 WIRE AT +18" AFF U.O.N.
- HVAC UNIT (HV)
- 4SD J-BOX FOR FIRE ALARM PULL STATION AT +48" AFF, 3/4" CO TO OR . PULLSTRING
- 4SD J-BOX FOR FIRE ALARM STROBE AT +80" AFF 3/4" CO TO PULLSTRING
- 4SD J-BOX FOR FIRE ALARM HORN AT +80" AFF 3/4" CO TO . PULLSTRING
- WEATHER PROOF GUTTER BOX (6"x6"x4") AT +18" AFF RECEIVE 3/4" CO FROM FA DEVICE PULL STRING
- ELECTRICAL PANEL AT +80" AFF TO CENTERLINE 1 1/4" POWER NIPPLE POC, GND JUMPER BY SITE ELECT
- CLOCK AT +90" AFF
- DATA LINE
- 4SD J-BOX FOR HEAT DETECTOR (ATTIC) *
- 4SD J-BOX FOR SMOKE DETECTOR (ATTIC) *

NOTES

1. SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE ARCHITECTS INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO CCR TITLE 24, SECTION 1632A AND TABLE 16A-O. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS & HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS MAY BE OMITTED FROM THE PLANS.

FOR ELECTRICAL DRAWINGS:

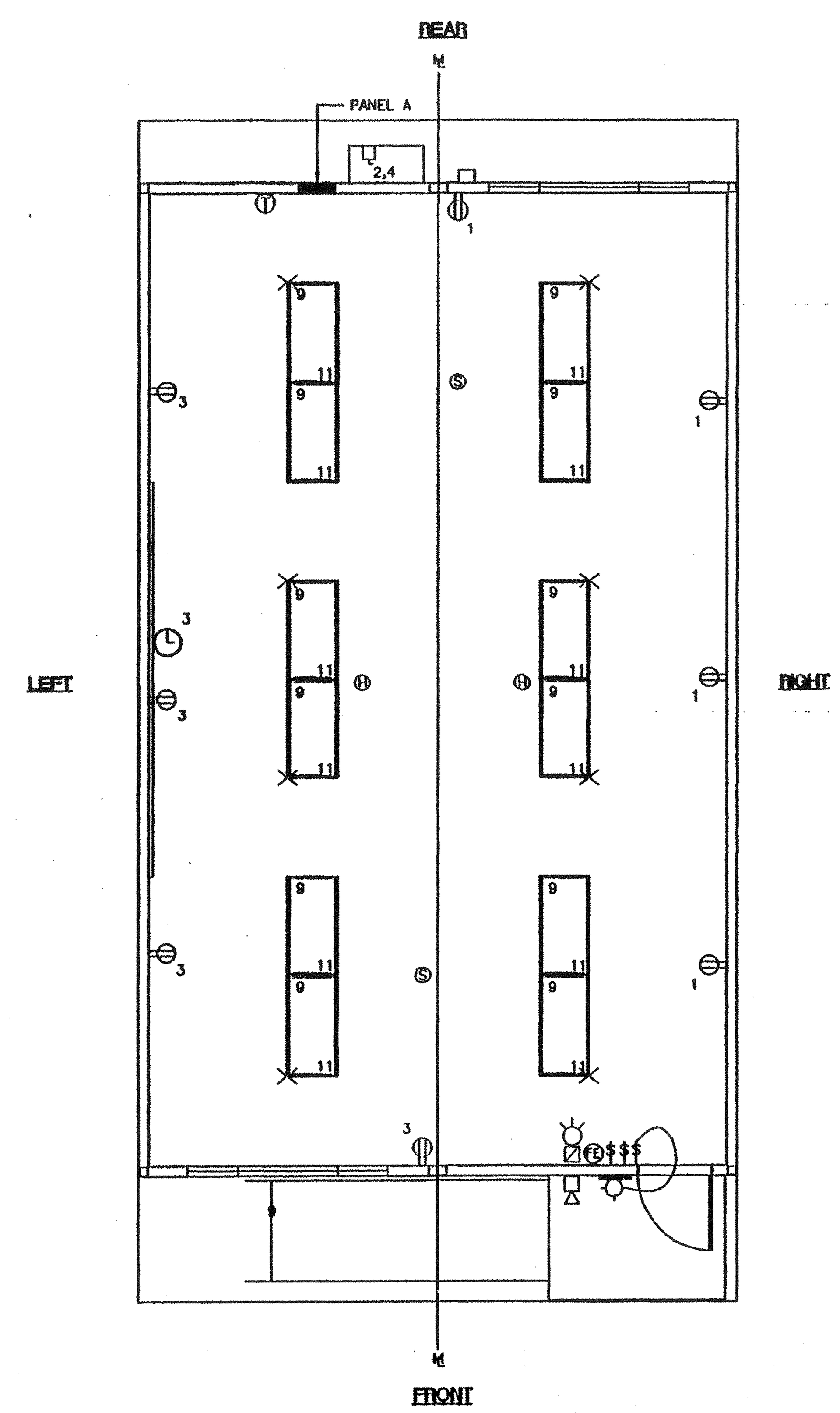
ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA

EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 TIMES THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 TIMES THE HORIZONTAL FORCE

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE, Z = 4

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



* SMOKE & HEAT DETECTORS SHOWN ARE FOR OPTION AUTOMATIC DETECTION. IF ELECTED AS AN OPTION THEY MUST BE PROVIDE BY DISTRICT. NO PROVISIONS WILL BE MADE UNDER THIS CONTRACT. AND NO EQUIPMENT WILL BE PROVIDED BY MOD-TECH.

4

ELECTRICAL PLAN (24'x40')

CBC 1998

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 104310
AC FLS SS
DATE JUN 0 2002

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 108 83
AC FLS SS
DATE 2002

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP03 118937
AC FLS SS
DATE APR 0 3 2018

REVISIONS			
1	DD	ADD CONDUIT SIZE FOR GUTTER BOX	09-10-01
2			
3			
4			
5			

Electrical Engineer's Seal | Mechanical Engineer's Seal | Architect's Seal

PC-04 101410

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: 4151

WILLIAMS SCOTSMAN

DRAWN BY: WQ
DATE: 3/6/02
CHECKED BY:
DATE:

ELECTRICAL PLAN w/o DATA 24'x40'

E1.0

PROJECT NUMBER: 4097

Page 1 of 5

DSA DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES

DSA-103 rev 4/27/2016

Listing of Structural Tests & Special Inspections - 2013 CBC

INCREMENT # | DSA File No.: | Application No.: | Date Submitted: | Revised:

School Name | District

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.
NOTE: This form is also available for projects submitted for review under the 2007 and 2010

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected. **For more information on use of this form, see DSA-103.INSTR.**

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE[1]	PERFORMED BY[2]	CODE REFERENCE AND NOTES
+	**SOILS**			
+	**CONCRETE**	Table 1705A.3		
+	**MASONRY**	TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3		
-	**STEEL, ALUMINUM**	Table 1705A.2.1		
-	**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	Periodic	*	* By special inspector or qualified technician when performed off-site.
X	b. Test unidentified materials	Test	LOR	2203A.1 (2203.1+). ASTM A370.
	Inspection:			
X	e. Verify and document steel fabrication per DSA approved construction documents.	Continuous	SI	Not applicable to cold-formed steel, except for trusses (1705A.2.2.4).
-	**19. WELDING:**			DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	c. Inspect welding of stairs and railing systems.	Periodic	SI	**1705A.2.2.1** Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
+	**WOOD**			
+	**OTHER**			

List of required verified report(s):

1 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

KEY to Columns	
1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**SI** – Indicates that the special inspection is to be performed by a special inspector

COMPILE PRINT

Name of Architect or Engineer in general responsible charge

Name of Structural Engineer (When structural design has been delegated)

Signature of Architect or Structural Engineer date

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APP. #
AC N/A F/LS N/A SS
DATE

Appendix: Work Exempt from DSA Requirements for Special Inspection or Structural Testing

DSA-103
(rev 12-20-13)

+ In the CODE REFERENCE AND NOTES column, it indicates DSA-SS/CC sections that may be used by community colleges, per 2013 CBC Sec. 1.9.2.2.

"CONSTRUCTION OF" AND "STOCKPILE OF" EXAMPLE DSA 103 FORM (DSA 103 FORM NOT REQUIRED FOR RELOCATION OF CERTIFIED RAMP & LANDING).

THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

TMP SERVICES

2929 KANSAS AVE.
RIVERSIDE, CA 92507
(951) 213-3900
FAX (951) 213-3997

PC 04-113584 (REV. #2)
ACCESSIBLE RAMPS/ LANDINGS/STAIRS

STATE OF CALIFORNIA– 2012 IBC/2013 CBC

NOTES:

LOADS:

1. RAMP LIVE LOAD = 100 PSF
2. NO SNOW LOADING
3. NO FLOOD LOADING
4. WIND:
   WIND SPEED = 120 MPH
   RISK CATEGORY = II
   EXPOSURE = C
   K_{ZT} = 1.0
   WIND DESIGN PER ASCE 7–10 CHAPTER 29
5. SEISMIC:
   RISK CATEGORY = II
   I_e = 1.25
   S_S = 3.73
   S_1 = 1.30
   SITE CLASS = D
   S_{DS} = 2.487
   C_S = 0.9332 (ASCE 7–10 EQUATION 15.4–5)
   R = 3.25 (ASCE 7–10 TABLE 15.4–1)
6. ALLOWABLE SOIL BEARING = 1000 PSF

APPROVED
DIVISION OF THE STATE ARCHITECT
ACS JS FLS DF SSS GL
A# 04-113584 DATE: 8.3.2016

CODES: (TITLE 24 CODES)

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC)....(PART 1, TITLE 24, CCR)

2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2012 EDITION INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2012 EDITION INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA GREEN CODE (CFC), (PART 9, TITLE 24, CCR)

2013 CALIFORNIA REFERENCED CODE, (PART 12, TITLE 24, CCR)
NFPA 13 2013
NFPA 72 2013

2013 CODE SECTIONS FOR APPLICABLE STANDARDS
2013 CBC, CHAPTER 35
2013 CFC, CHAPTER 45

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DIV. OF THE STATE ARCHITECT
APP03 118937
AC FLS SS
DATE APR 03 2018

TABLE OF CONTENTS

EXL STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710
MEMBER STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234
Fax(909) 613-0236

REVISIONS | BY

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-18
DATE SIGNED AUG 02 2016

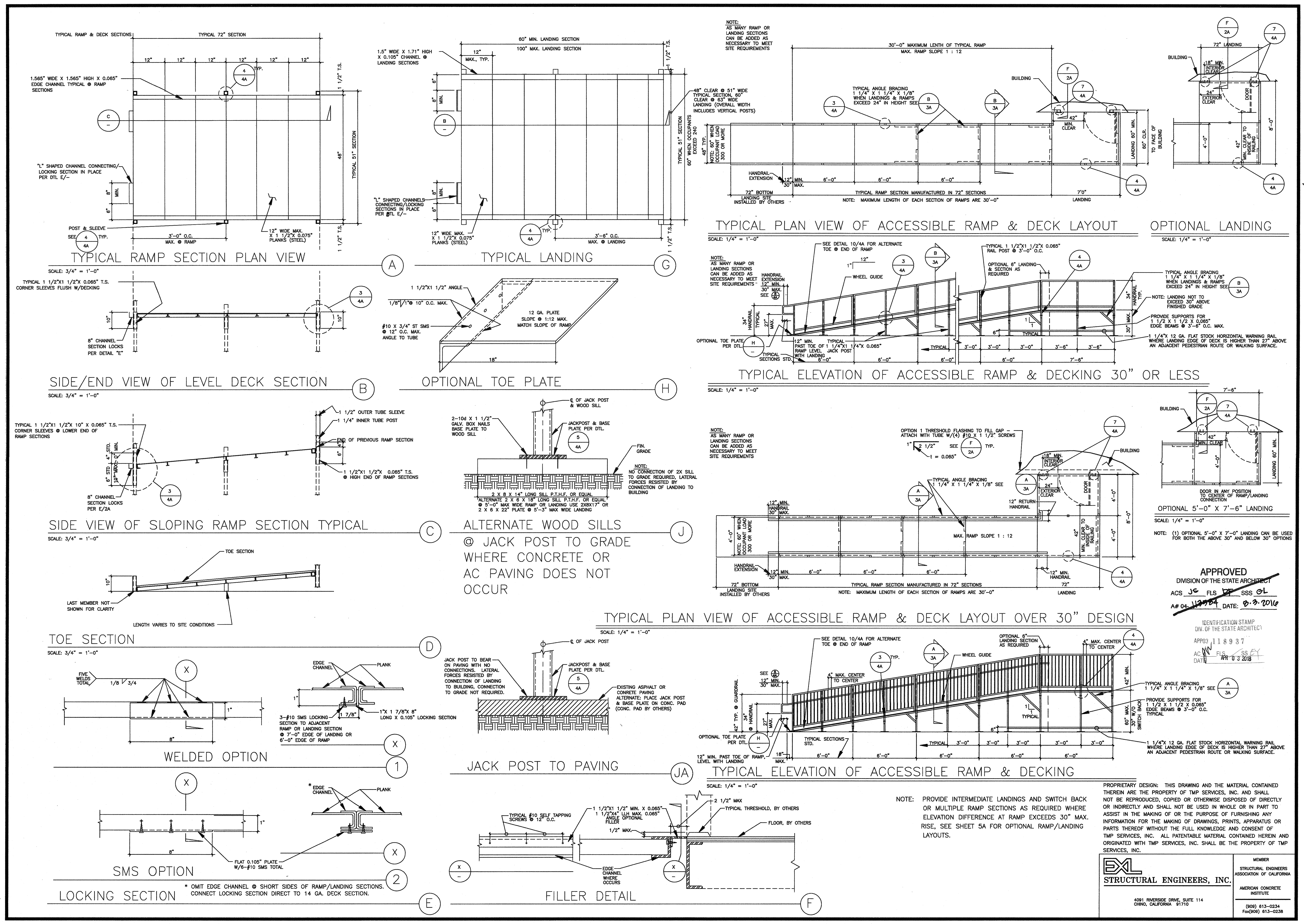
COVER SHEET

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951) 213-3900
FAX: (951) 213-3997

SITE: STATE OF CALIFORNIA

DRAWN
CHECKED
DATE 12 JULY 2016
SCALE
JOB NO.

1A
OF 8 SHEETS


TYPICAL RAMP SECTION PLAN VIEW
SCALE: 3/4" = 1'-0"
TYPICAL LANDING
SIDE/END VIEW OF LEVEL DECK SECTION
SCALE: 3/4" = 1'-0"
OPTIONAL TOE PLATE
SIDE VIEW OF SLOPING RAMP SECTION TYPICAL
SCALE: 3/4" = 1'-0"
ALTERNATE WOOD SILLS
@ JACK POST TO GRADE WHERE CONCRETE OR AC PAVING DOES NOT OCCUR
TOE SECTION
SCALE: 3/4" = 1'-0"
WELDED OPTION
SMS OPTION
LOCKING SECTION
* OMIT EDGE CHANNEL @ SHORT SIDES OF RAMP/LANDING SECTIONS. CONNECT LOCKING SECTION DIRECT TO 14 GA. DECK SECTION.
JACK POST TO PAVING
FILLER DETAIL
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT
SCALE: 1/4" = 1'-0"
OPTIONAL LANDING
SCALE: 1/4" = 1'-0"
TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS
SCALE: 1/4" = 1'-0"
OPTIONAL 5'-0" X 7'-6" LANDING
SCALE: 1/4" = 1'-0"
NOTE: (1) OPTIONAL 5'-0" X 7'-0" LANDING CAN BE USED FOR BOTH THE ABOVE 30" AND BELOW 30" OPTIONS
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN
SCALE: 1/4" = 1'-0"
TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING
SCALE: 1/4" = 1'-0"

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DIVISION OF THE STATE ARCHITECT
ACS JC FLS SSS GL
A# 04-117904 DATE: 8-3-2016

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APP03 118937
AC FLS SS
DATE AUG 03 2016

NOTE: PROVIDE INTERMEDIATE LANDINGS AND SWITCH BACK OR MULTIPLE RAMP SECTIONS AS REQUIRED WHERE ELEVATION DIFFERENCE AT RAMP EXCEEDS 30" MAX. RISE, SEE SHEET 5A FOR OPTIONAL RAMP/LANDING LAYOUTS.

EXL STRUCTURAL ENGINEERS, INC.
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(909) 613-0234
Fax(909) 613-0238

REVISIONS | BY

LICENSE EXPIRES 6-30-18

DATE SIGNED AUG 02 2016

ACCESSIBLE RAMP ELVATIONS & DETAILS

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213-3997

SITE:

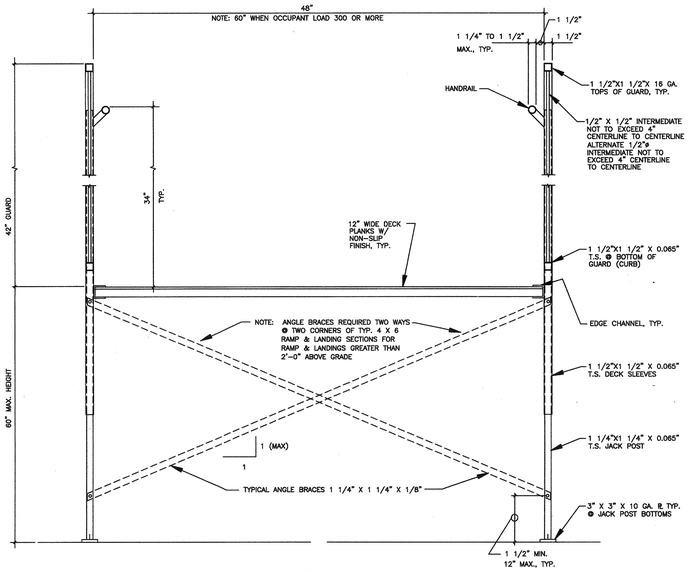
STATE OF CALIFORNIA

DRAWN
CHECKED
DATE 12 JULY 2016
SCALE
JOB NO.

2A

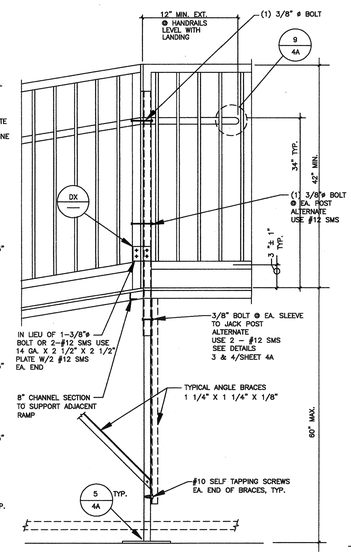
OF 8 SHEETS

TMP HCD 2013 STEEL SHEET 2A.DWG



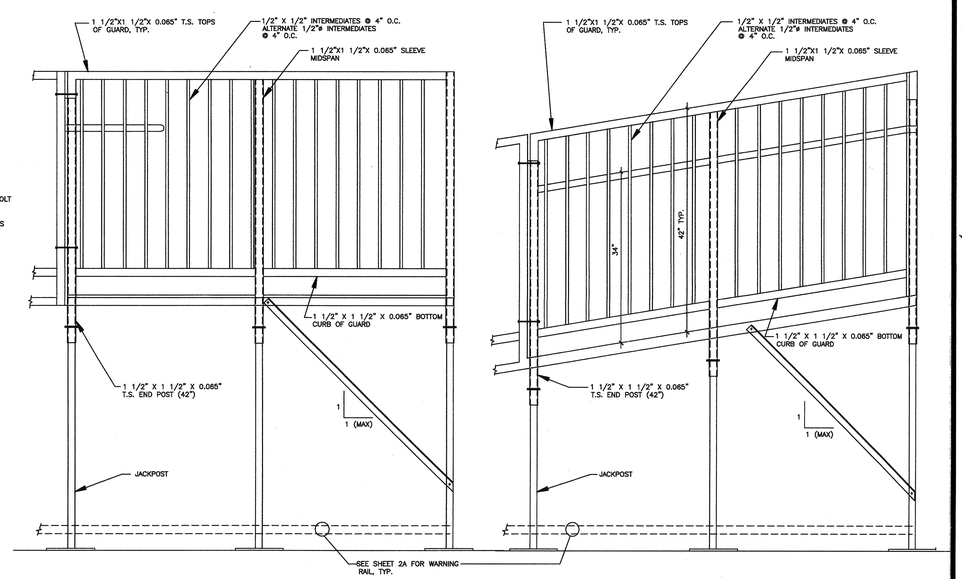
A — SCALE: 1" = 1'-0"

TYPICAL CROSS SECTIONS +30"



C — SCALE: 1" = 1'-0"

POST SECTION +30"

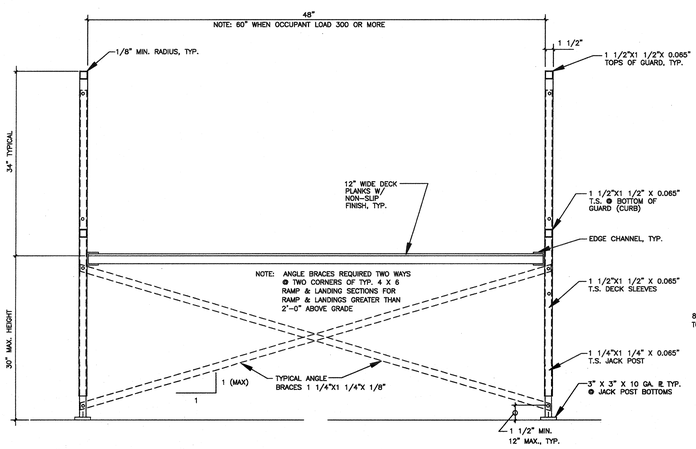


E — SCALE: 1" = 1'-0"

LANDING RAIL LAYOUT +30"

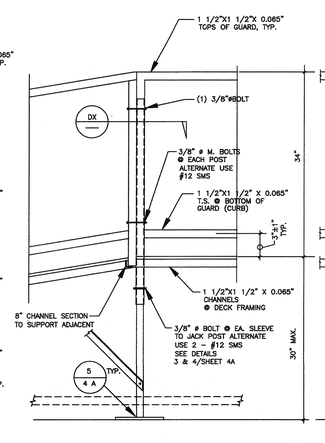
G — SCALE: 1" = 1'-0"

RAMP RAILING LAYOUT +30"



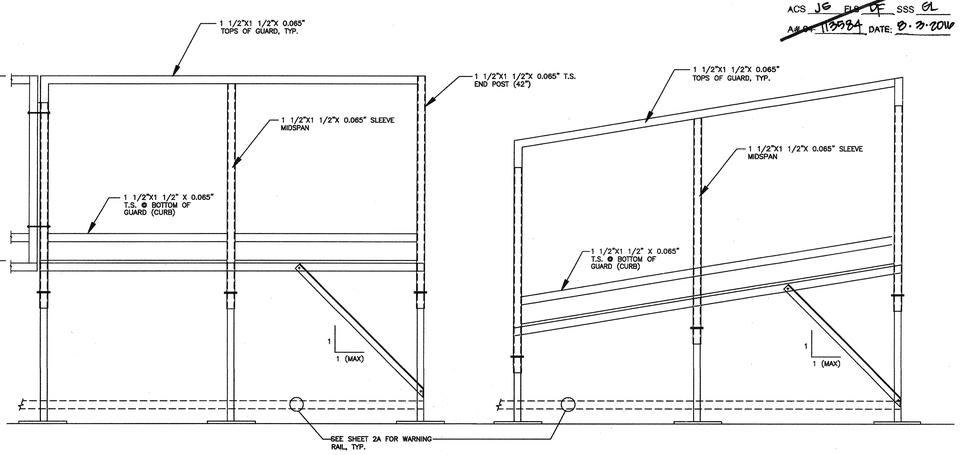
B — SCALE: 1" = 1'-0"

TYPICAL CROSS SECTIONS −30"



D — SCALE: 1" = 1'-0"

POST SECTION −30"

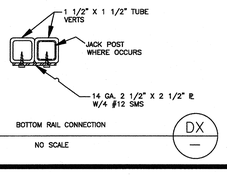


F — SCALE: 1" = 1'-0"

LANDING RAIL LAYOUT −30"

H — SCALE: 1" = 1'-0"

RAMP RAILING LAYOUT −30"



BOTTOM RAIL CONNECTION — NO SCALE — DX

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APP'L NO. 113984 DATE: 8-3-2016

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APP'D 118937
ACS FLS SS
DATE AUG 0 3 2016

EXL STRUCTURAL ENGINEERS, INC.
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REVISIONS	BY

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No. 3602
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-18
DATE SIGNED
AUG 02 2016

ACCESSIBLE RAMP DETAILS & NOTES

TMP SERVICES
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PHONE: (951)213-3900
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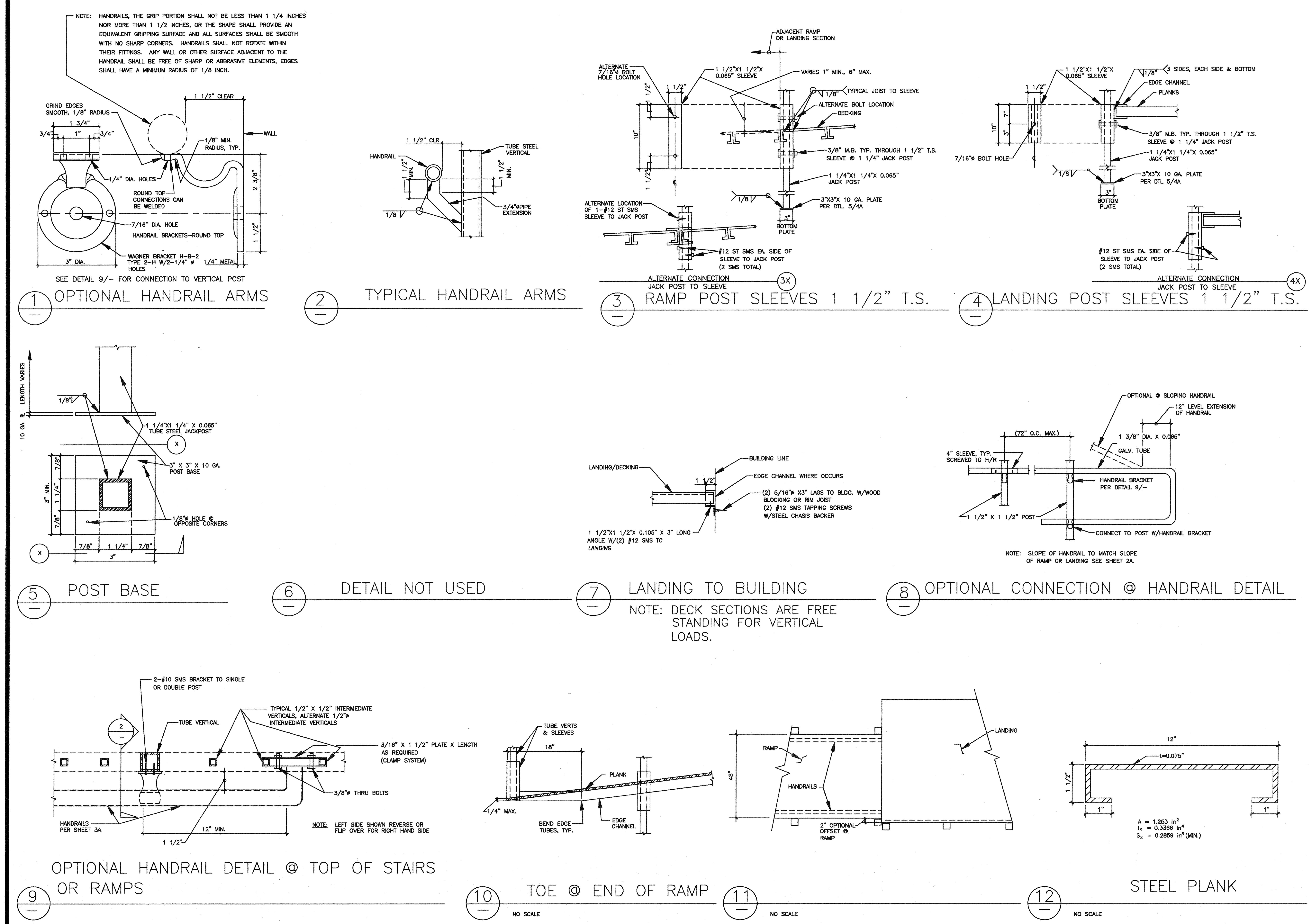
SITE:
STATE OF CALIFORNIA

DRAWN	
CHECKED	
DATE	12 JULY 2016
SCALE	
JOB NO.	

3A
OF 8 SHEETS

TMP HCD 2013 STEEL SHEET 3A.DWG



NOTES:

CODES:
2013 CALIFORNIA BUILDING CODE (CBC)

DESIGN LOADS:
LIVE LOAD: 100 PSF
WIND LOAD: SEE SHEET 1A
SEISMIC: SEE SHEET 1A
HANDRAIL & GUARD RAIL LOADS:
50#/FT
200# POINT LOAD

MATERIAL SPECIFICATIONS:
STEEL: ALL TUBE STEEL ASTM A-1008 CS TYPE AOR B (Fy = 40KS1)
ALL STEEL TO BE COATED WITH A RUST INHIBITIVE COATING
BOLTS: ASTM A307 COMMON BOLTS HOT DIPPED GALVANIZED W/ STAINLESS STEEL WASHERS
PLYWOOD OPTION: APA RATED STRUCT I EXTERIOR PLYWOOD
WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D-1.3-2008 FOR SHEET STEEL.
ELECTRODES SHALL BE E70XX.

GENERAL NOTES:

1) RAMPS HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30" OF RISE, PER CBC 11B-405.7.

2) LOCATION OF LANDINGS.
LANDINGS SHALL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP. INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30 INCHES OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION . LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP.

NOTE: EXAMPLES OF RAMP DIMENSIONS ARE:

SLOPE	MAX. RISE (INCHES)	MAX. HORIZONTAL PROJECTION
1:12	30	30'–0"
1:16	30	40'–0"
1:20	30	50'–0"
1:15	30	37'–6"

2. SIZE OF TOP LANDINGS. TOP LANDINGS SHALL NOT BE LESS THAN 60 INCHES WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60 INCHES IN THE DIRECTION OF RAMP RUN, PER CBC 11B-405.7.2 AND .3.

3) DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED, CBC 11B-405.7.5.

4) RAMPS SHALL BE CONSTRUCTED AS REQUIRED FOR STAIRWAYS.

5) THE SURFACE OF RAMPS SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL, TYP. FOR LANDINGS & STAIRS.

6) RAMPS REQUIREMENTS SHALL BE PER CBC 11B-405.

7) RAMPS AND STAIRWAYS USED AS EXIT SHALL CONFORM TO CBC SEC. 1009 SEC. 1010, CHAPTER 11B AND 11B-405.5.

8) HANDRAILS AND GUARDRAILS SHALL CONFORM TO CBC 11B-405.8 (RAMP), AND 11B-504 (STAIRS).

9) RAMPS SHALL CONFORM TO CBC 11B-405.

10) STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS.

11) LANDING WIDTH. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR RAMPS, CBC 11B-405.7.4.

12) THE WIDTH OF RAMPS SHALL BE AS REQUIRED PER STAIRWAYS AND EXITS, CBC 11B-405.5.

13) SLOPE RAMPS AND LANDINGS AS REQUIRED TO PREVENT ACCUMULATION OF WATER ON WALKING SURFACES.

14) ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS TITLE 24, CCR.

15) SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:
SHOP WELDING INSPECTION
MATERIAL VERIFICATION

DSA SPECIAL INSPECTOR: CLASS 4
(ON SITE)

APPROVED
DIVISION OF THE STATE ARCHITECT
ACS JS FLS DF SSS GL
A# 04-113584 DATE: 8.3.2016

IDENTIFICATION STAMP
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APP03 118937
AC YW FLS SS EY
DATE APR 03 2018

EXL
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REVISIONS | BY

LICENSE EXPIRES 6-30-18
DATE SIGNED
AUG 02 2016

DETAILS AND NOTES

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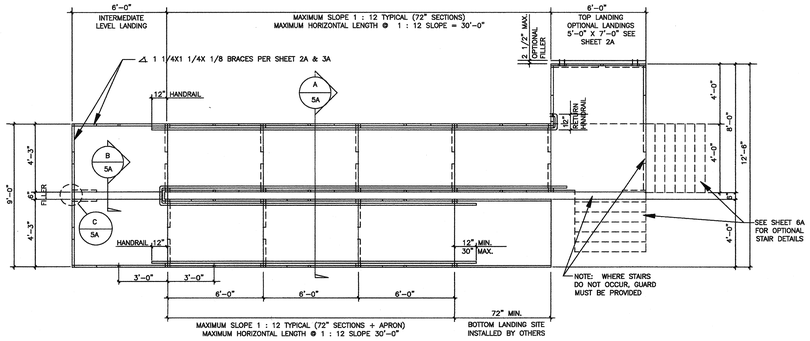
PHONE: (951)213-3900
FAX: (951)213-3997

SITE:
STATE OF CALIFORNIA

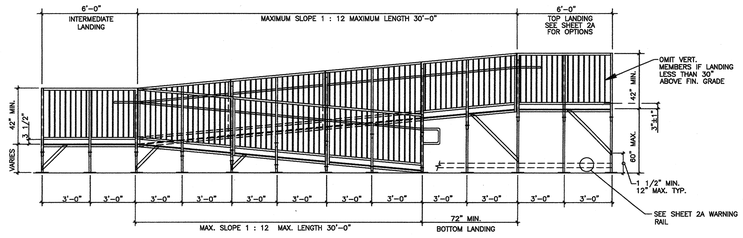
DRAWN
CHECKED
DATE
12 JULY 2016
SCALE
JOB NO.

TMP HCD 2013 STEEL SHEET 4A.DWG



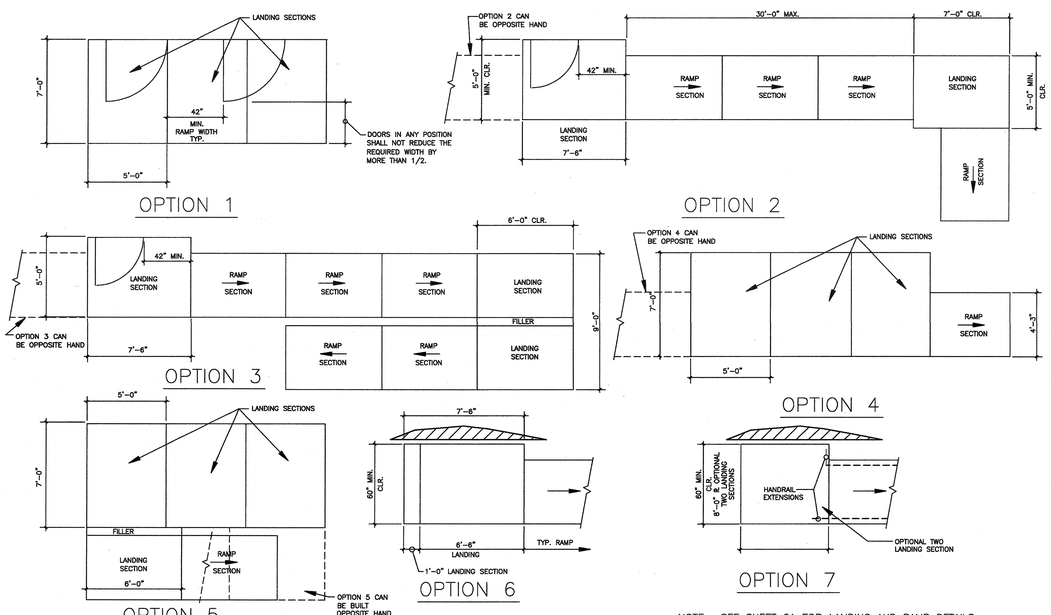
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

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



TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP

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



MULTIPLE LANDINGS AND RAMPS

NOTE: SEE SHEET 2A FOR LANDING AND RAMP DETAILS, SEE SHEET 6A FOR TYPICAL STAIRS

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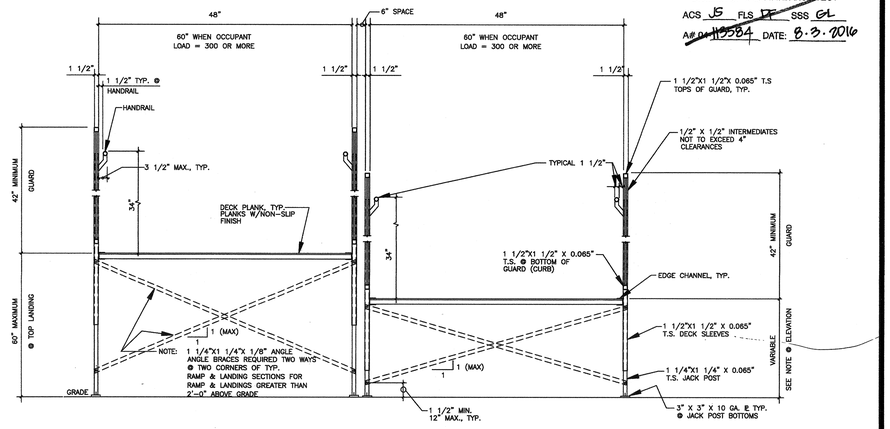
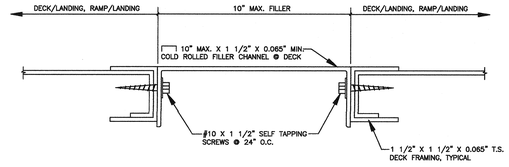
APP# 112504 DATE: 8.3.2016



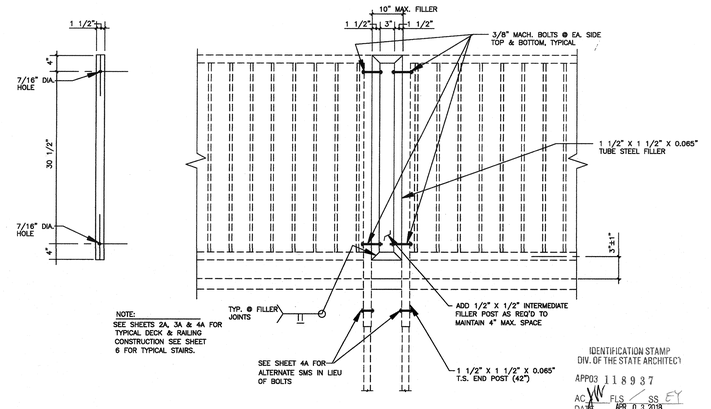
A — TYPICAL CROSS SECTIONS

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



B — TYPICAL DECK CROSS SECTION

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



C — TYPICAL GUARDRAIL FILLER

SCALE: 3/4" = 1'-0"

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STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
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STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613-0234
Fax(909) 613-0238

REVISIONS	BY

JAMES L. SIMPSON — No.3502 — STRUCTURAL — STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-18
DATE SIGNED AUG 02 2016

ACCESSIBLE RAMP SWITCHBACK DETAILS

SITE:

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213-3997

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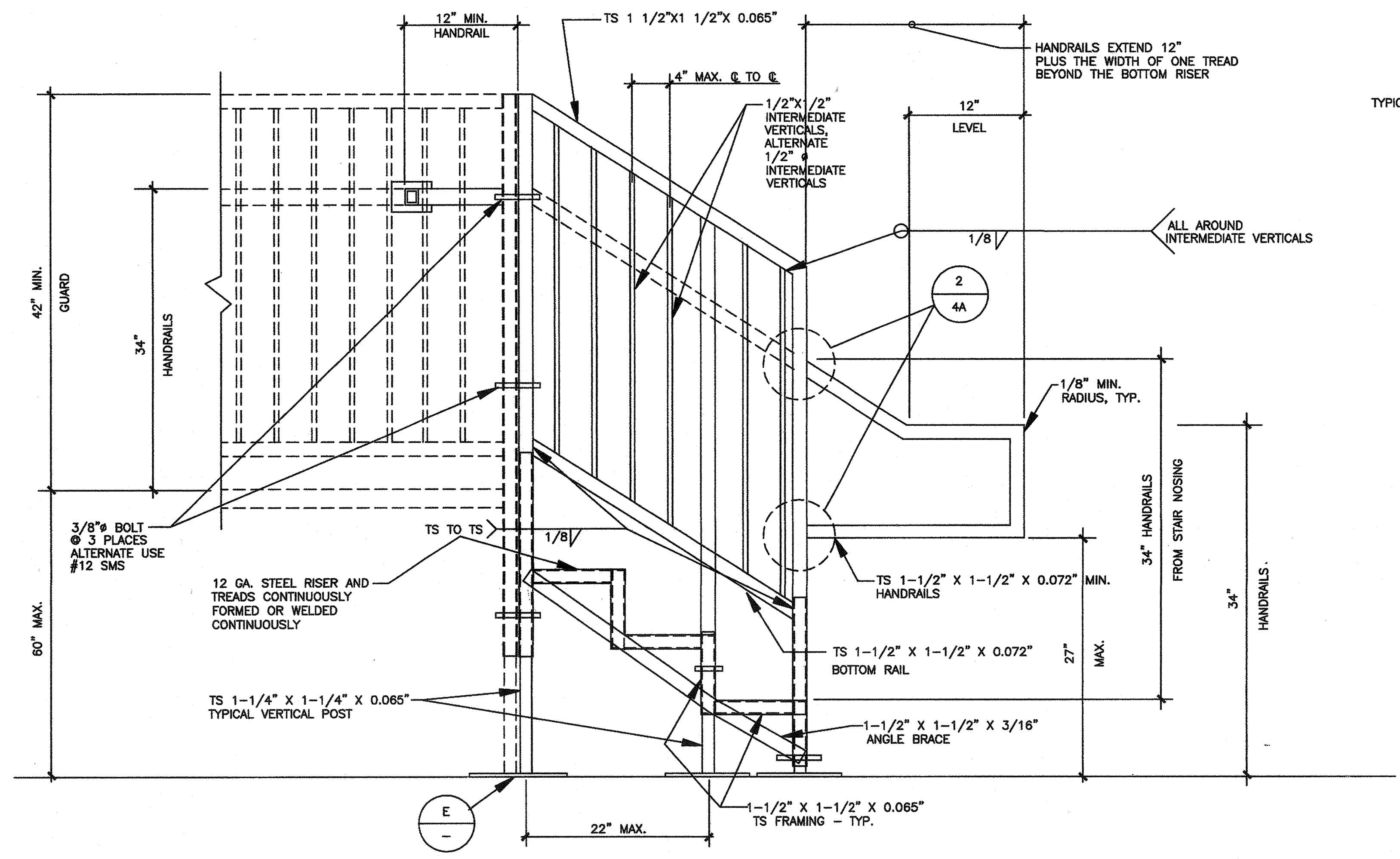
5A

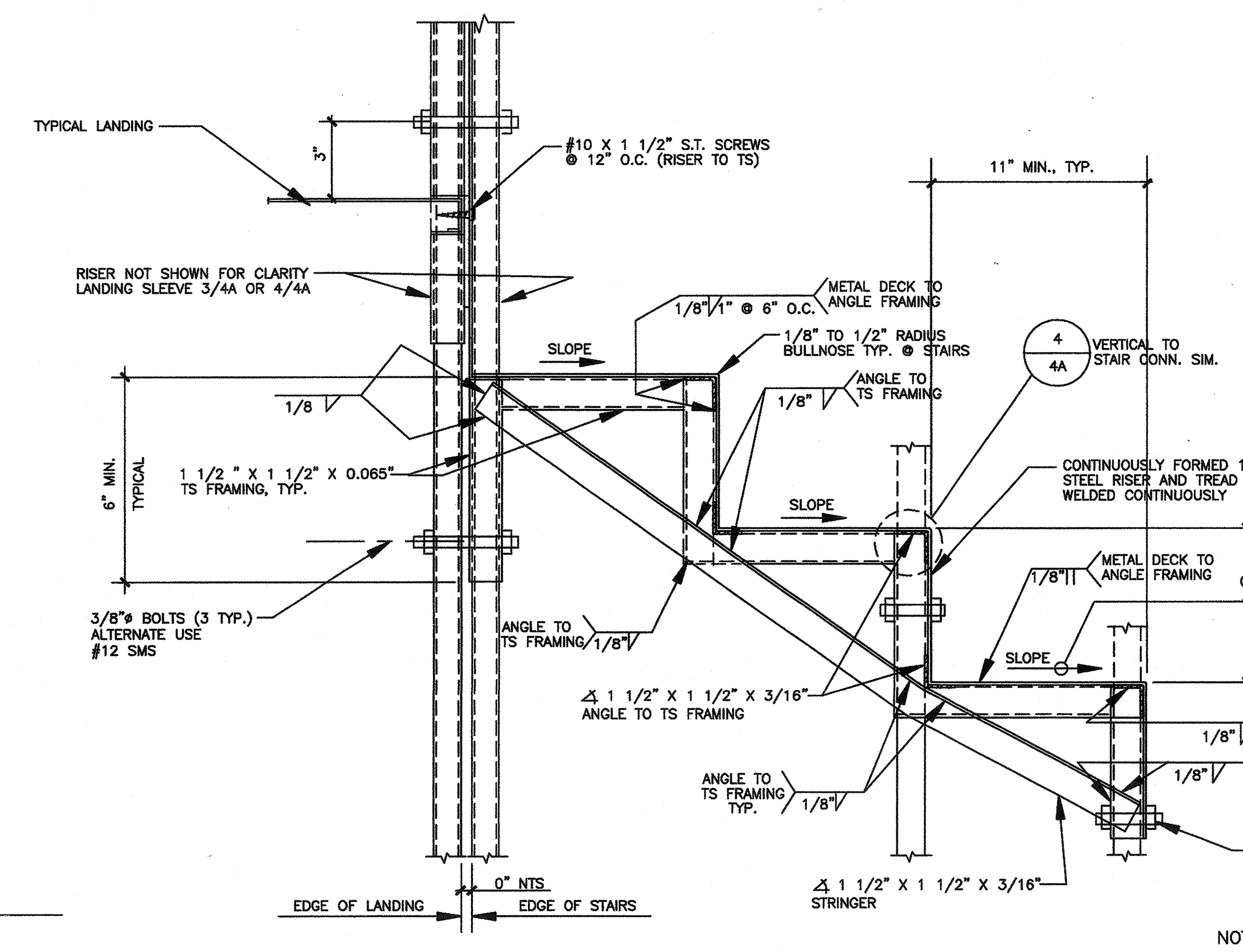
OF 8 SHEETS

TMP HSD 2013 STEEL SHEET SIZING



A — SIDE VIEW

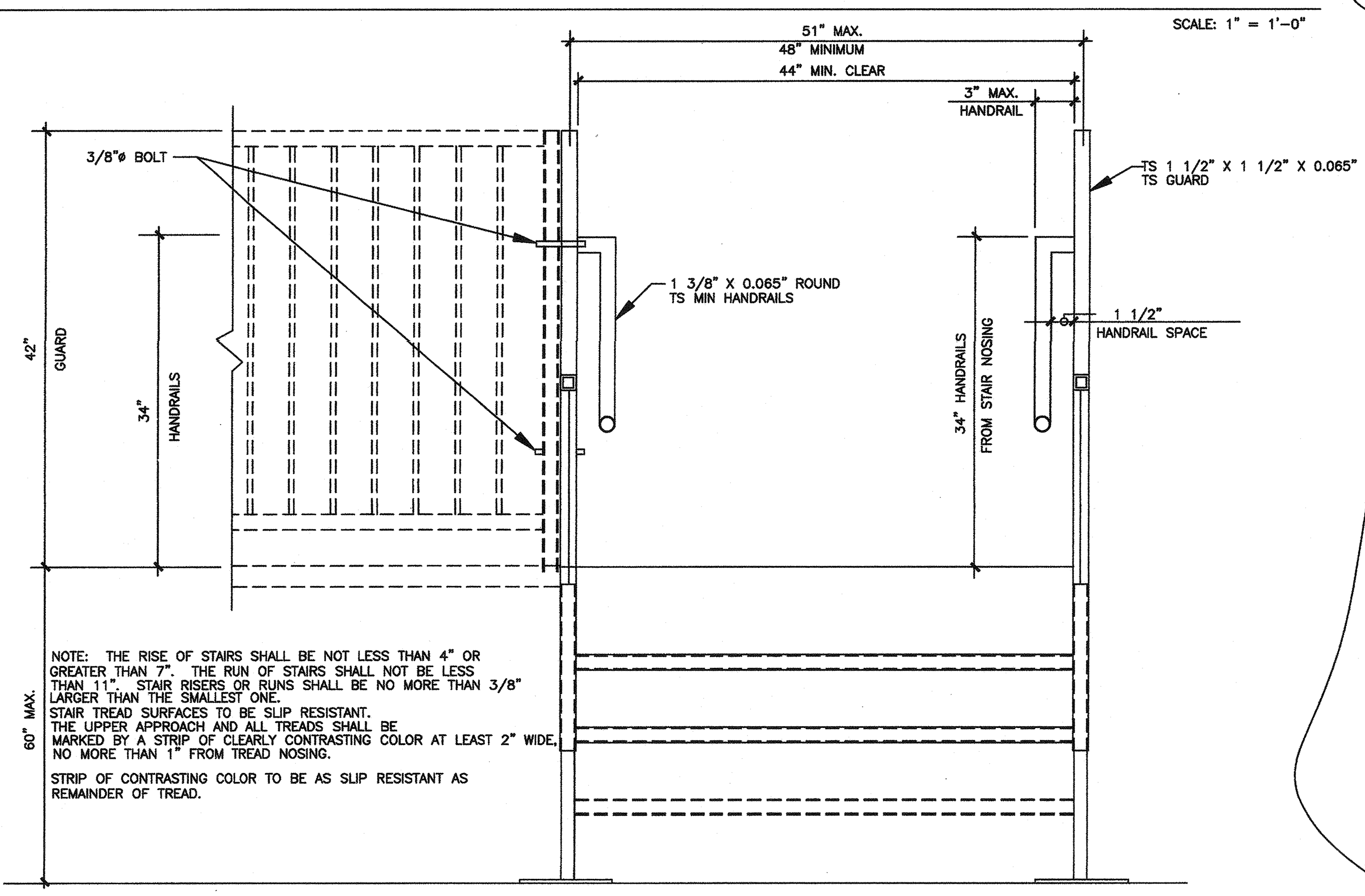
SCALE: 1" = 1'-0"



B — SECTION

NOT TO SCALE

NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" ABOVE FINISH GRADE.
FOR THRESHOLD HEIGHTS LESS THAN 30" ABOVE FINISH GRADE, PICKETS CAN BE OMITTED & HANDRAIL WILL ACT AS GUARD.

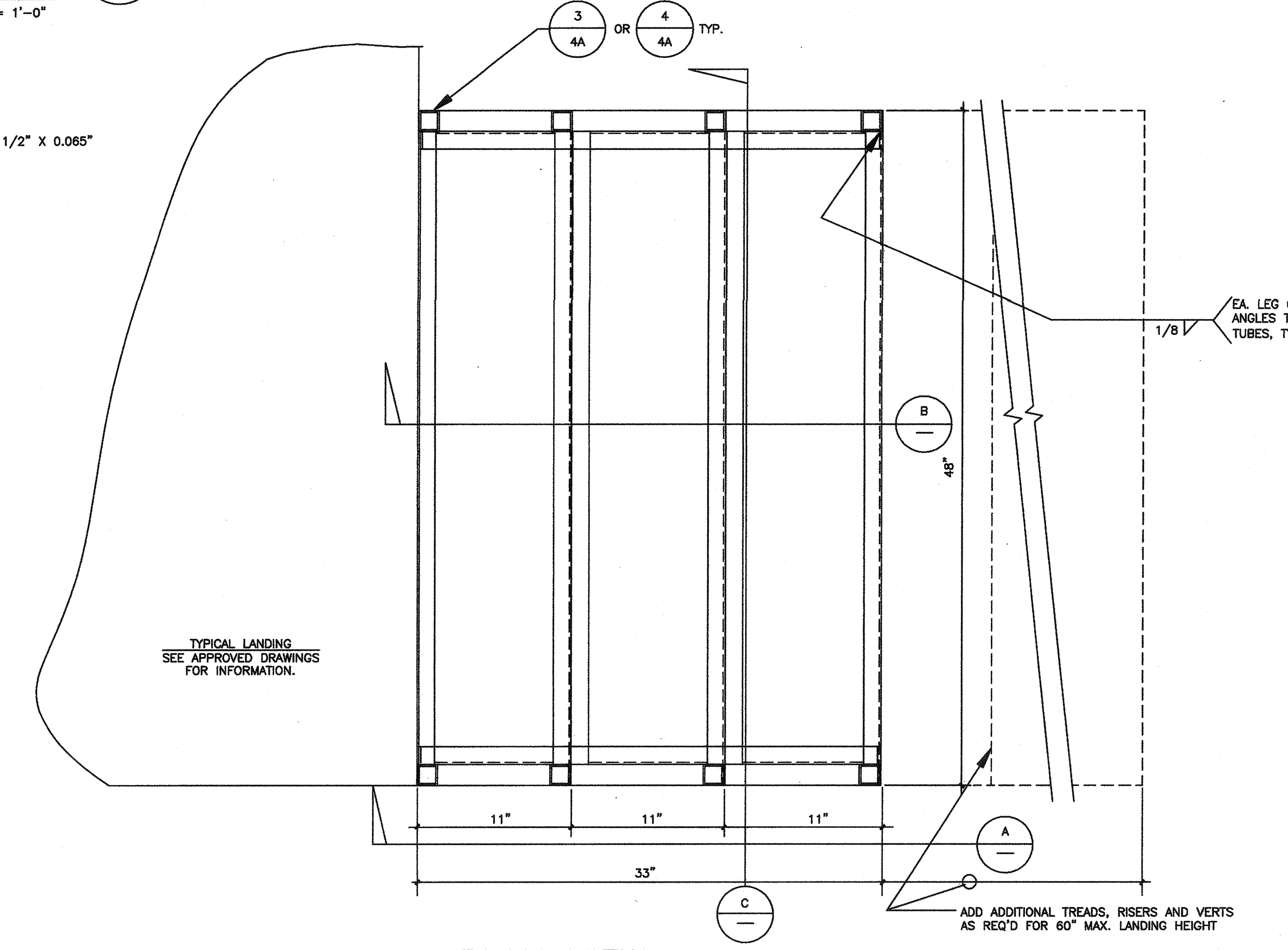


NOTE: THE RISE OF STAIRS SHALL BE NOT LESS THAN 4" OR GREATER THAN 7". THE RUN OF STAIRS SHALL NOT BE LESS THAN 11". STAIR RISERS OR RUNS SHALL BE NO MORE THAN 3/8" LARGER THAN THE SMALLEST ONE.
STAIR TREAD SURFACES TO BE SLIP RESISTANT.
THE UPPER APPROACH AND ALL TREADS SHALL BE MARKED BY A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, NO MORE THAN 1" FROM TREAD NOSING.

STRIP OF CONTRASTING COLOR TO BE AS SLIP RESISTANT AS REMAINDER OF TREAD.

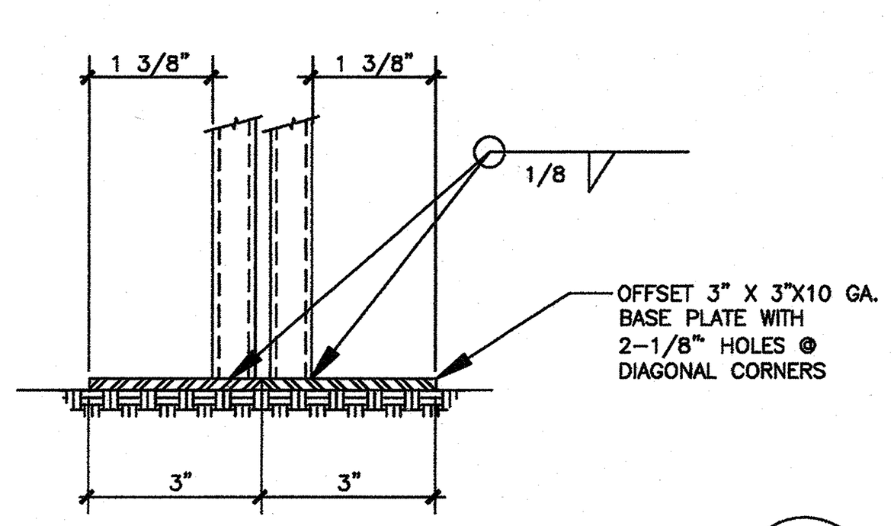
C — FRONT VIEW

SCALE: 1" = 1'-0"



PLAN VIEW — D

NOT TO SCALE



E

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LICENSE EXPIRES 6-30-18

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APP03 118937
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DATE APR 03 2018

EXL STRUCTURAL ENGINEERS, INC.
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REVISIONS	BY

STAIRS OPTIONAL

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213-3997

SITE:
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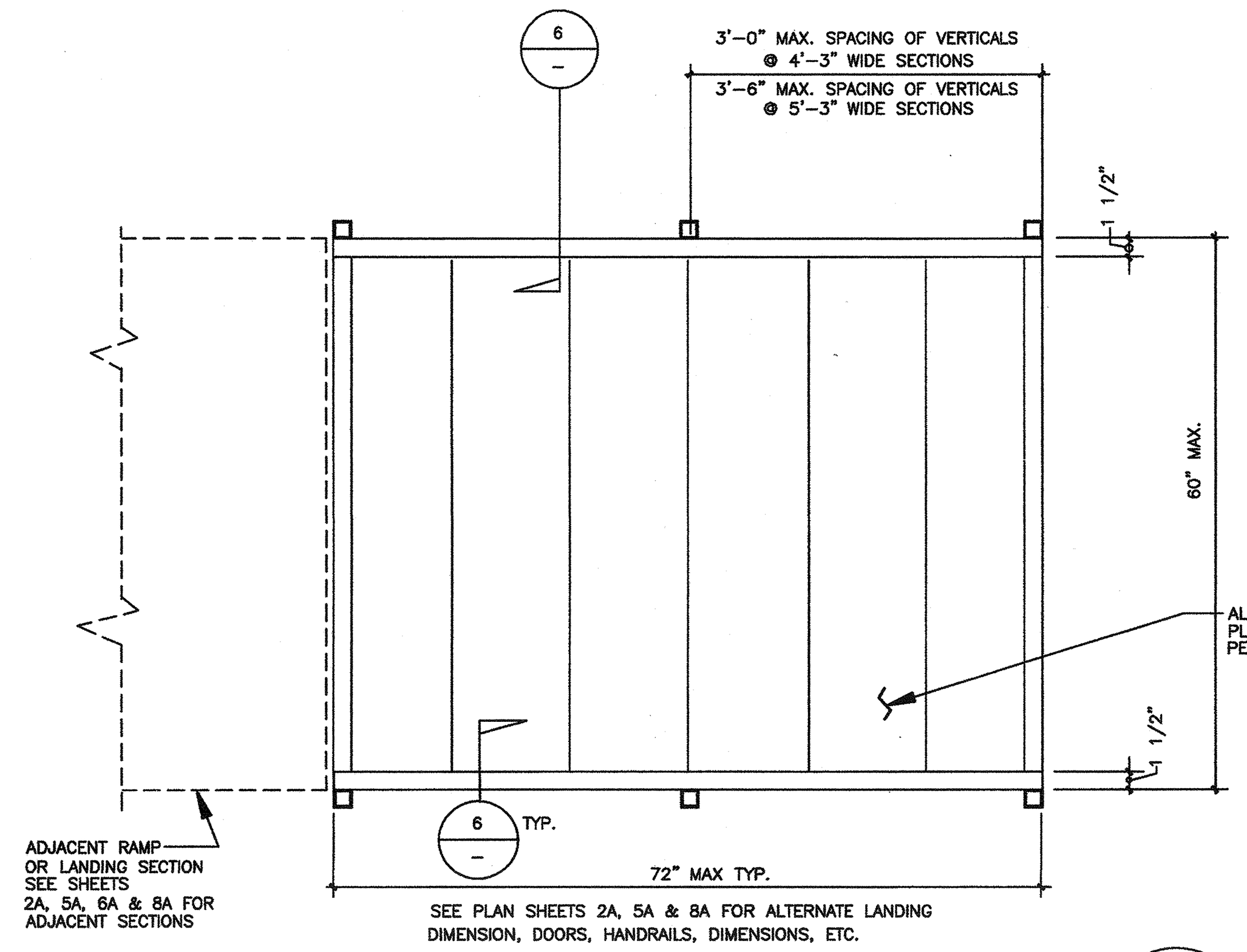
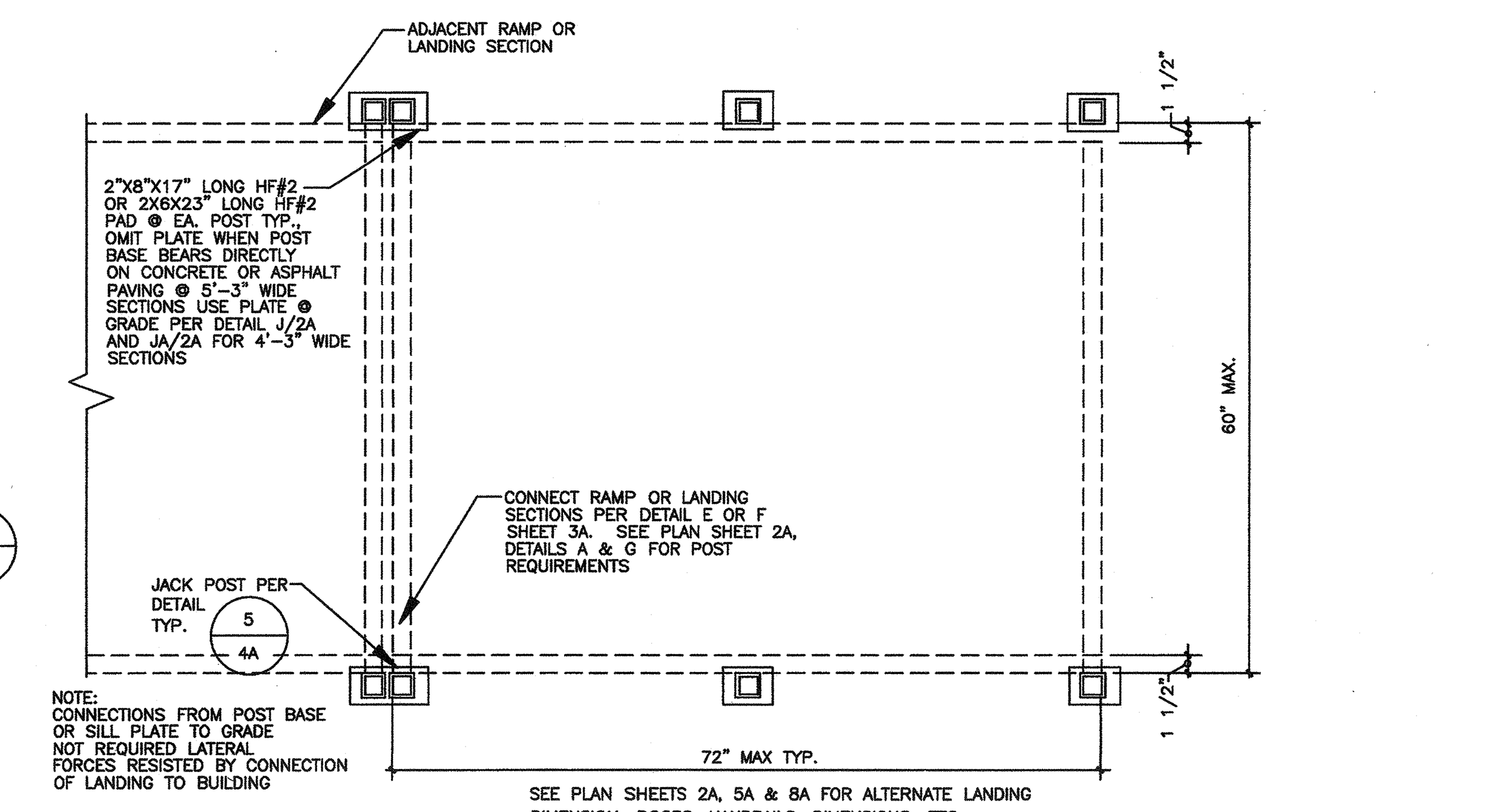
JOB NO.

6A
OF 8 SHEETS

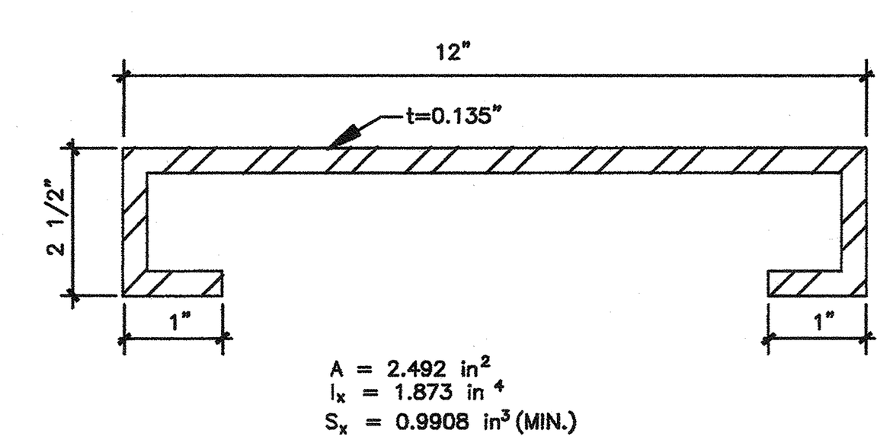
TMP HCD 2013 STEEL SHEET 6A.DWG



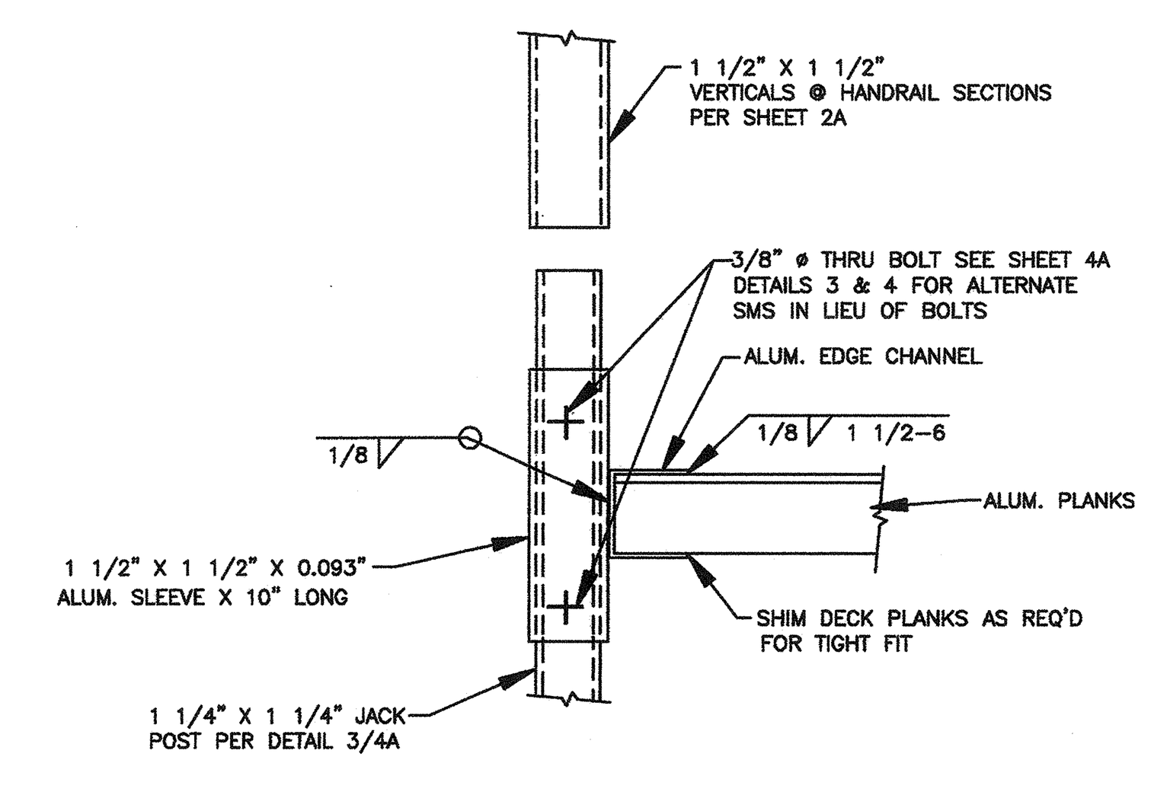
LANDING OR RAMP SECTION 1B



FOOTINGS @ LANDING OR RAMP SECTION 1A

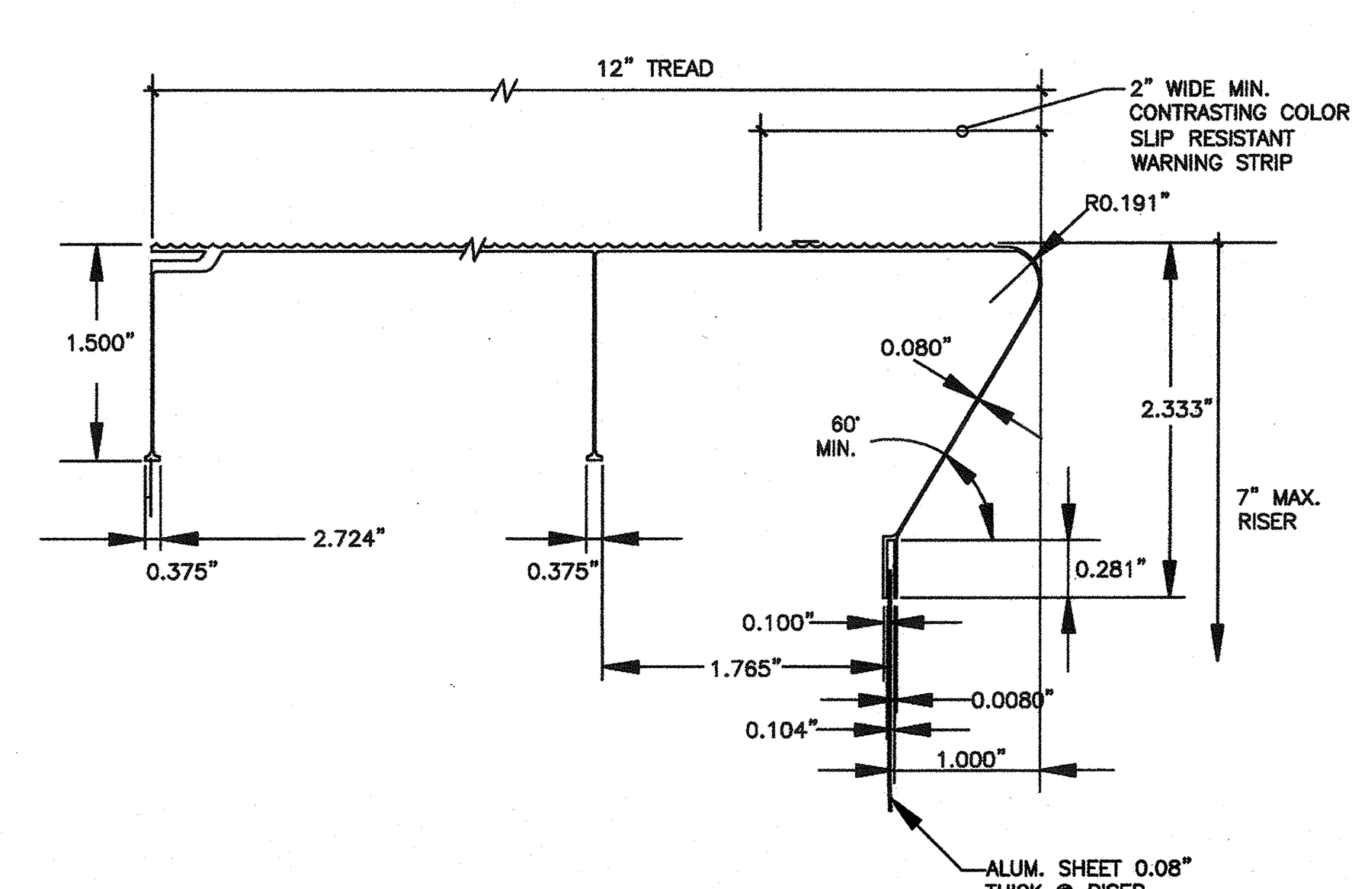


ALUM. PLANKING 2



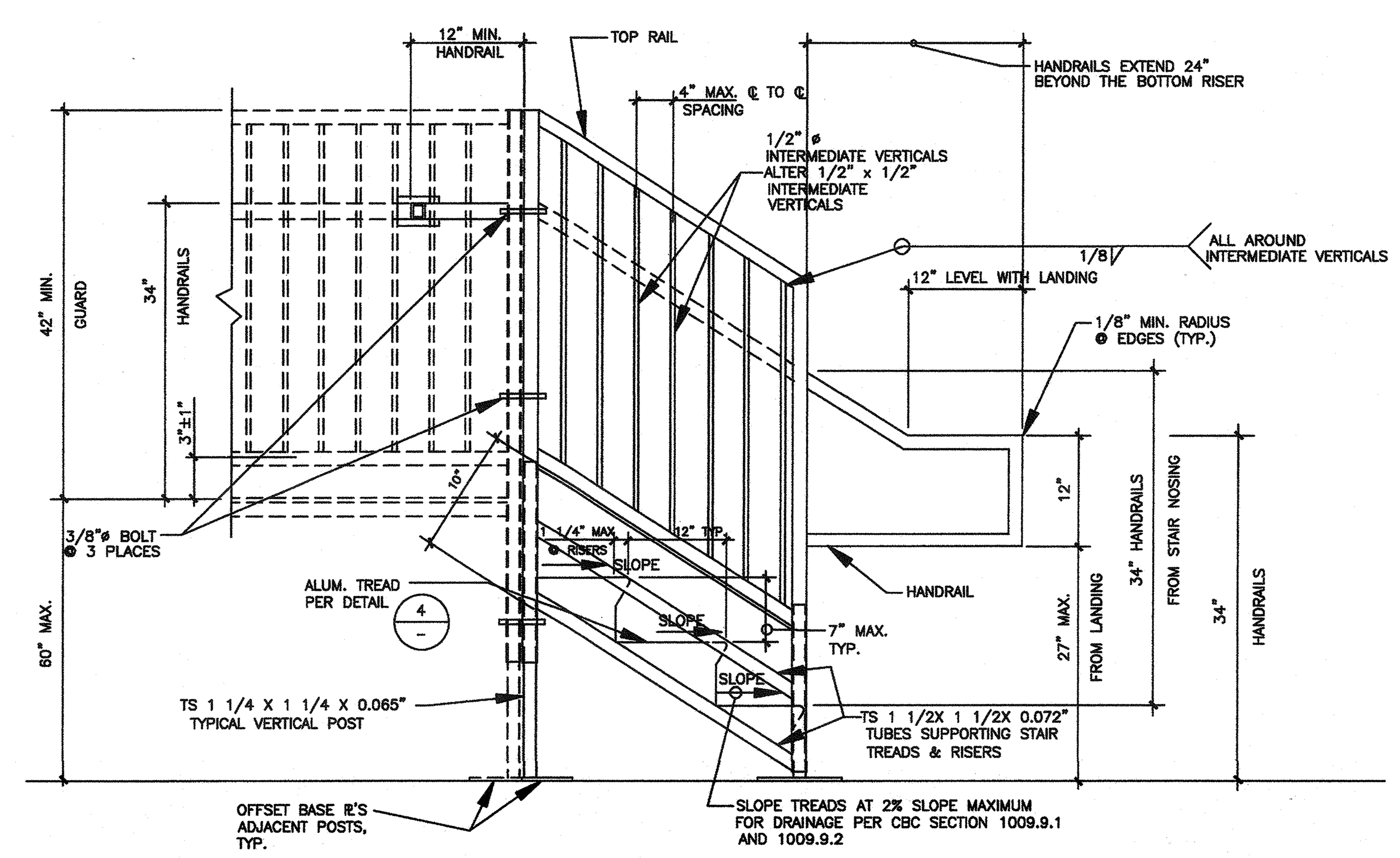
ALUM. SLEEVE DETAIL 3

SCALE: 3" = 1'–0"



ALUM. STAIR TREAD 4

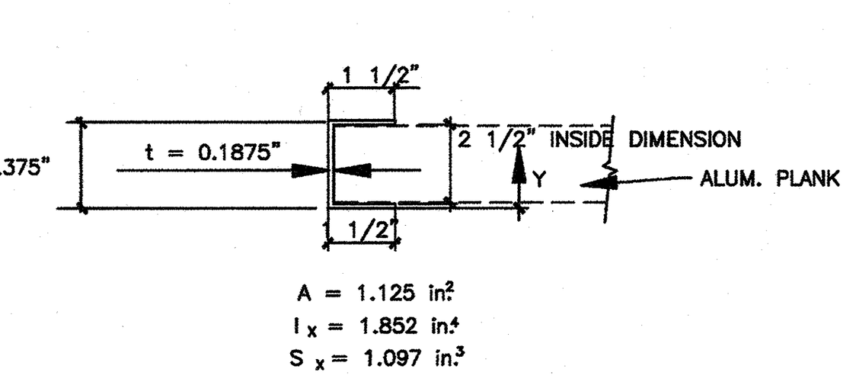
SCALE: 3/4" = 1"



STAIRS 5

SCALE: 3/4" = 1'–0"

NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" ABOVE FINISH GRADE.
FOR THRESHOLD HEIGHTS LESS THAN 30" ABOVE FINISH GRADE, PICKETS CAN BE OMITTED & HANDRAIL WILL ACT AS GUARD.



ALUM EDGE CHANNEL @ RAMP 6

SCALE: 3" = 1–0"

NOTES:

MATERIAL SPECIFICATIONS:
ALUMINUM:

1 1/4X 1 1/4X 1/8 ANGLE	6063 T5
2"X1 1/2"X1/8" CHANNEL	6063 T5
DECK PLANKS	6063 T5
STAIR PLANKS	6063 T5

BOLTS: ALUMINUM 6061–T6, 2024–T4 OR 7075–T73, ALTERNATE USE TYPE 304 STAINLESS STEEL BOLTS WITH STAINLESS STEEL WASHERS.

WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D1.2–2008 FOR ALUMINUM", ELECTRODES SHALL BE 5356 OR 5554 FOR 6063–T5 ALUMINUM & SHALL BE 5556 FOR 6061–T6 ALUMINUM.

SEE SHEET 4A FOR GENERAL NOTES

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APP03 118937
AC XW FLS / SS EY
DATE APR 0 3 2018

REVISIONS	BY

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-18

DATE SIGNED AUG 02 2016

ACCESSIBLE RAMP
OPTIONAL ALUMINUM DECK

TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
FAX: (951)213-3997

SITE:
STATE OF CALIFORNIA

EXL STRUCTURAL ENGINEERS, INC.
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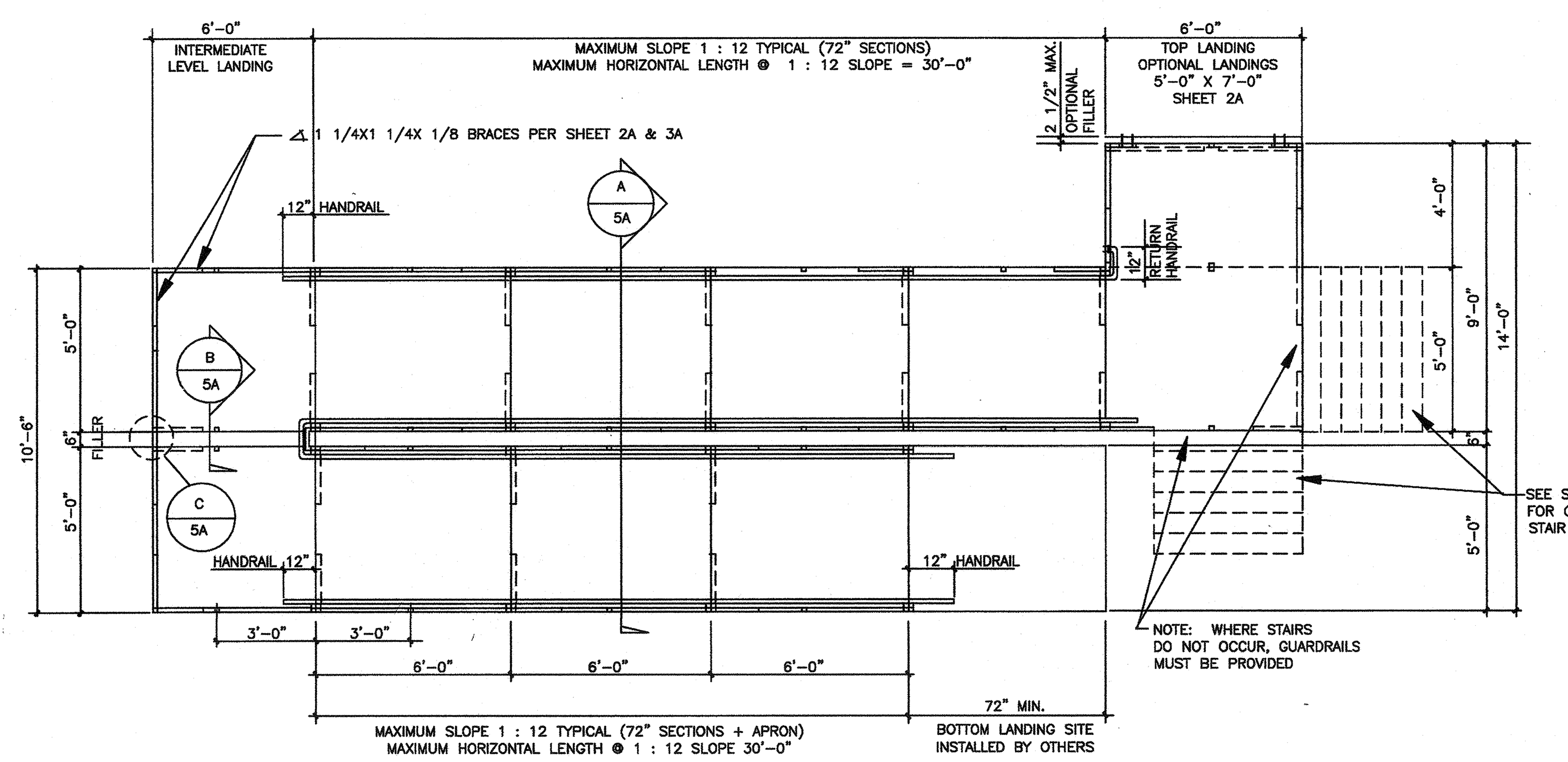
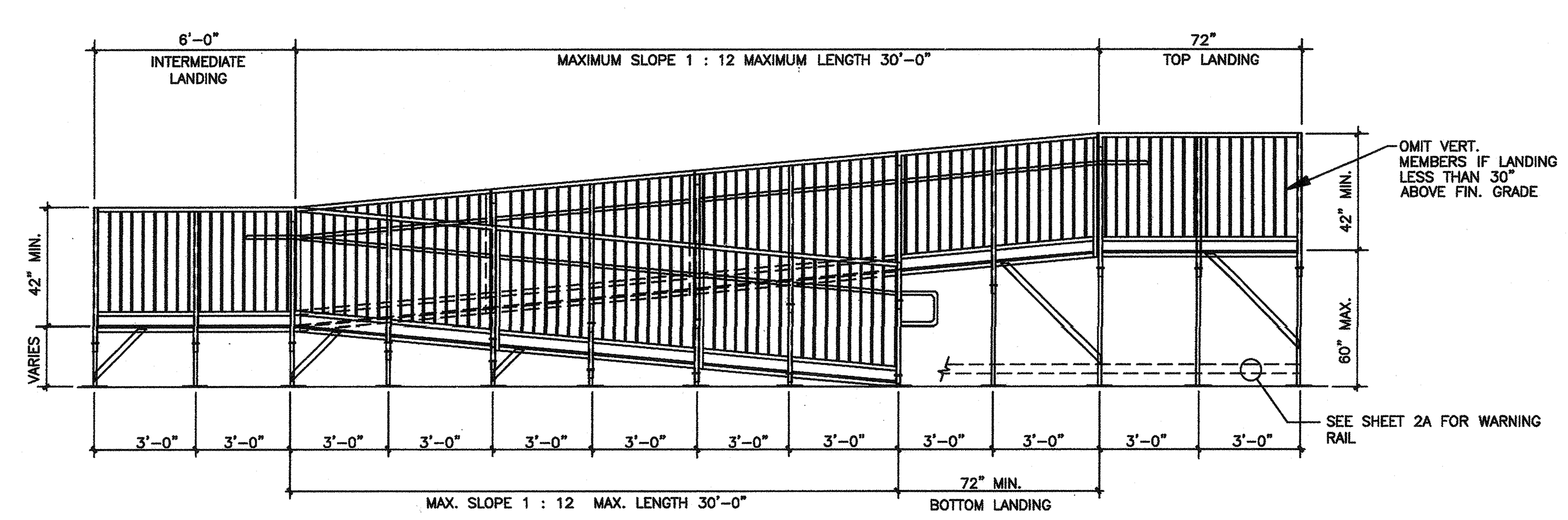


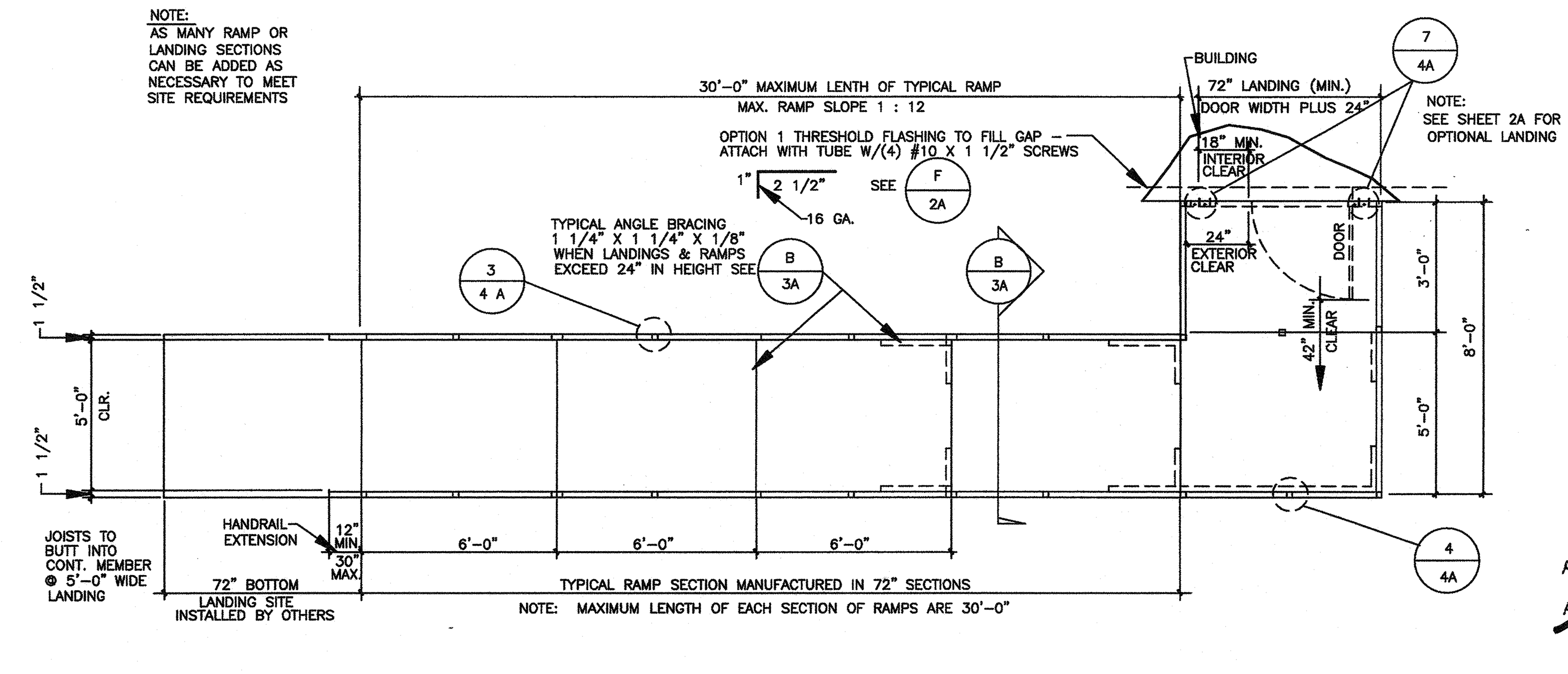
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

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



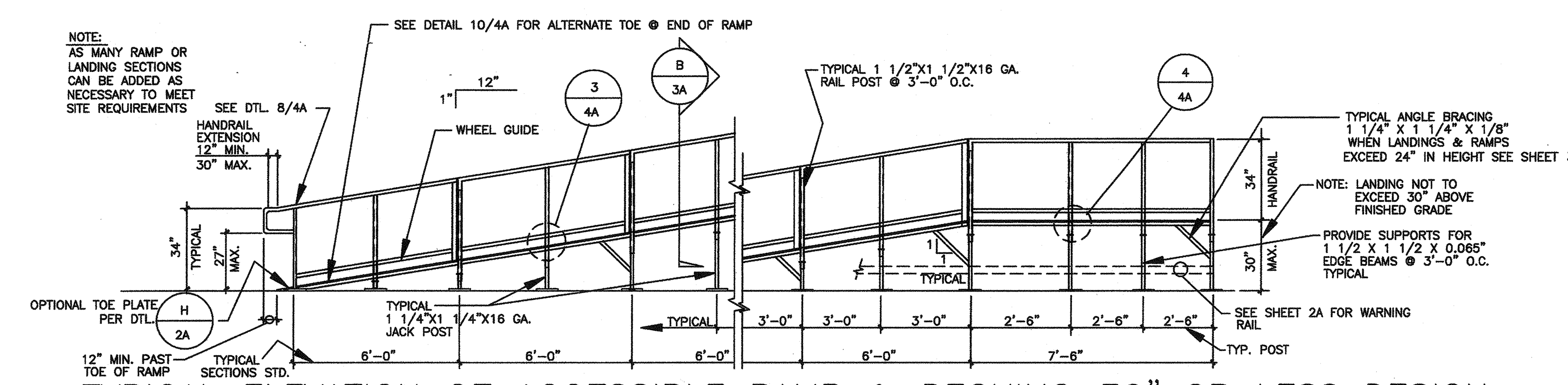
TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP W/ 5'-0" WIDE RAMPS

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



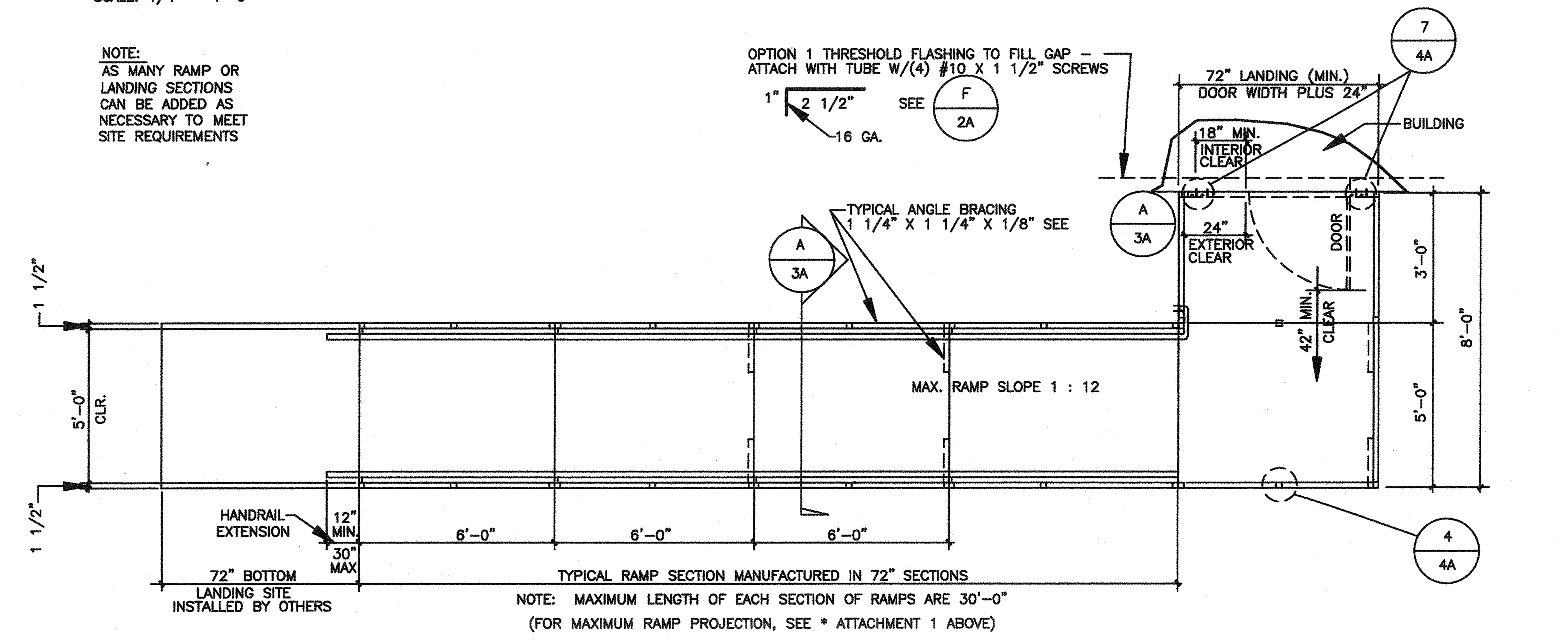
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT

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



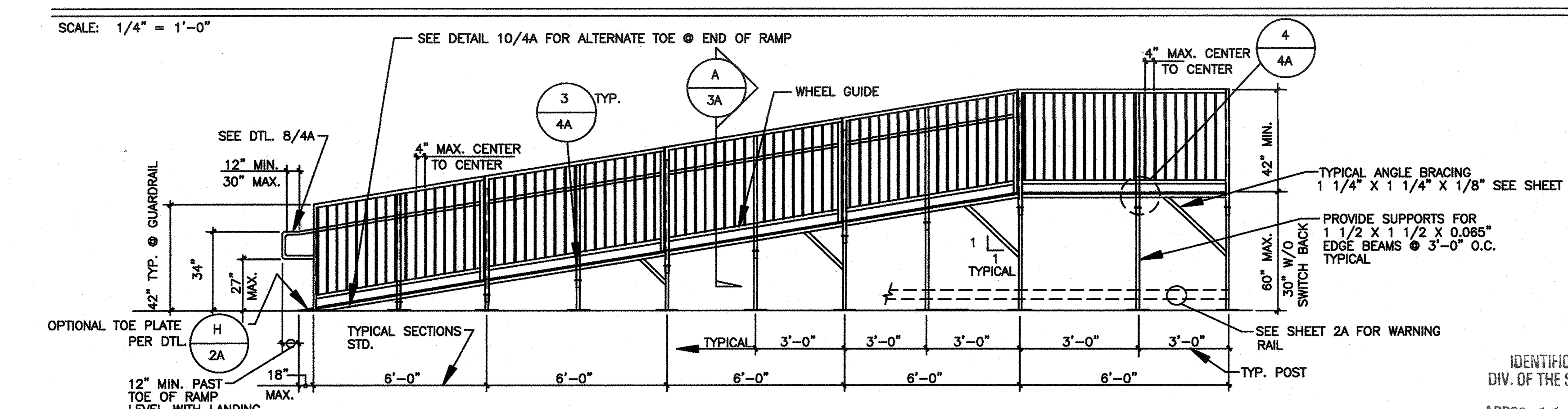
TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS DESIGN

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



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN

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



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING

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

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REVISIONS | BY

ACCESSIBLE RAMP ELVATIONS & PLAN VIEWS

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PHONE: (951)213-3900
FAX: (951)213-3997

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8A

OF 8 SHEETS

TMP DSA RAMP & LANDING STEEL SHEET 8A.DWG