2-24x40 RELOCATABLE CLASSROOMS
AT
GENERAL SHAFTER ELEMENTARY SCHOOL
1825 SHAFTER ROAD, BAKERSFIELD, CA. 93313
FOR
GENERAL SHAFTER SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

SYMBOLS

Symbol	Description
1 / A	GRID LINES
G	GATE SYMBOL
124 / A	DOOR SYMBOL DOOR NUMBER
1 T	WINDOW SYMBOL WINDOW NUMBER T = TEMPERED WH/OCCURS
△	REVISION NUMBER
	WORK POINT CONTROL PT./ DATUM PT. ELEVATION
	MATCH LINE (SHADED PORTION IS THE SIDE SHOWN)
	ADA CLEARANCE, SEE SCHEDULE
TRUE NORTH / PLAN NORTH	NORTH ARROW
A / A8.0	BUILDING SECTION SHEET NUMBER
B / A8.0	WALL SECTION SHEET NUMBER
12 / A10.1	DETAIL NUMBER SHEET NUMBER
101 OFFICE / A9.0	RM. NUMBER/ NAME SHEET REFERENCE
100.00 / (E) 99.50	REVISED FINISH GRADE (E) GRADE CALLED (E)
901	KEYNOTE
	SIGNS, SEE SHT A1.1, DTL 4/A10.0
A	KITCHEN EQUIPMENT

ABBREVIATIONS

Abbr.	Meaning
@	AT
&	And
(E)	Existing
<	Less Than
>	More Than
(N)	New
d	Penny
±	Plus or Minus
#	Pound / Number
≤	Less than or Equal
≥	More than or Equal
AB	Anchor Bolt
AC	Asphalt Concrete
ACC	Accessibility
AD	Area Drain
AFF	Above Finish Floor
AP	Access Panel
A/C	Air-conditioning
ABV	Above
ACOUS	Acoustic(al)
ACPL	Acoustical Plaster
ADD	Addendum
ADJ	Adjustable/Adjacent
AGG	Aggregate
AFF	Above Finish Floor
ALT	Alternate
ALUM	Aluminum
ANC	Anchor(age)
ANOD	Anodized
APPROX	Approximate(ly)
ARCH	Architect
ASB	Asbestos
AUTO	Automatic
AVE	Average
AV	Audio Video
BBD	Bulletin Board
BC	Begin Curve
BMK	Bench Mark
BOB	Bottom of Beam
BUR	Built-up Roofing
BD	Board
BEL	Below
BIT	Bituminous
BLDG	Building
BKBD	Backboard
BLK	Block
BLKG	Blocking
BRK	Break, Brick
BRKR	Braker
BM	Beam
BOT	Bottom
BN	Boundary Nailing
BRG	Bearing
BRNZ	Bronze
BTU	British Thermal Unit
BTWN	Between
BUR	Built Up Roofing
BVL	Bevel(ed)
C&G	Curb and Gutter
CB	Catch Basin
CF	Cubic Foot(Feet)
CFL	Counterflashing
CFRD	Coffered
CG	Corner Guard
CI	Cast Iron
CIP	Cast Iron Pipe
CIPC	Cast-in-place concrete
CISP	Cast Iron Soil Pipe
CJ	Ceiling Joist
CJT	Control Joint
CK	Caulk(ing)
CL	Chain Link
℄	Center Line
CMT	Ceramic Mosaic tile
CMU	Concrete Masonry unit
CO	Clean-out, Conduit
COTG	Clean-out to grade
COTW	Clean-out thru wall
CR	Curb Return
CAB	Cabinet
CEM	Cement
CER	Ceramic
CHAM	Chamfer
CHBD	Chalkboard
CHG	Change
CLG	Ceiling
CLR	Clear(ance)
CLS	Closure
CNTR	Counter
COL	Column
COMB	Combination
COMPO	Composition
CONC	Concrete
CONST	Construction
CONT	Continuous
CORR	Corrugated
CSK	Countersink
CRPT	Carpet
CSMT	Casement
CTR	Center
CW	Cold Water
DF	Drinking Fountain / Douglas Fir
DG	Decomposed Gravel
DH	Double Hung
DA	Double Acting
DET	Detail
DIA	Diameter
DIAG	Diagonal
DIM	Dimension
DIV	Division
DPPR	Depress(ed)
DR	Door
DS	Downspout
DISP	Dispenser
DWG	Drawing
DWR	Drawer
DC W	Domestic Cold Water
DHW	Domestic Hot Water
E	East
EDF	Electric Drinking Fountain
EF	Each Face
EJ	Expansion Joint
EPB	Electric Panel Board
EW	Each Way
EA	Each
ELECT	Electric(al)
ELEV'R	Elevator
ELEV	Elevation
EMER	Emergency
ENAM	Enamel
ENCL	Enclosure
EQ	Equal
EQUIP	Equipment
EXH	Exhaust
EXP	Expansion / Exposed
EX	Exterior
FBO	Furnished By Others
FBLKG	Fire-blocking
FD	Floor Drain
FDN	Foundation
FEC	Fire Extinguisher Cabinet
FG	Fixed Glass / Finish Grade
FGRD	Finish Grade
FJ	Floor Joist
FJT	Flush Joint
FO	Face Of
FOC	Face of Concrete / Column
FOF	Face of Finish
FOM	Face of Masonry
FOS	Face of Stud
FOW	Face of Wall

Abbr.	Meaning
FAB	Fabrication(tion)
FAC	Factory
FAS	Fasten(er)
FBD	Fiberboard
FBGL	Fiberglass
FHC	Fire Hose Cabinet
FHMS	Flathead Machine Screw
FHWS	Flathead Wood Screw
FHSS	Flathead Stainless Steel
FIN	Finish(ed, es)
FLEX	Flex(ible)
FLR	Floor
FLUOR	Fluorescent
FOUND	Foundation
FRMG	Framing
FRT	Fire-Retardant
FS	Fixed Shelf
FTG	Footing
FURR	Furring(ed)
FUT	Future
FV	Field Verify
GB	Grab Bar
GI	Galvanized Iron
GA	Guage
GALV	Galvanize
GL	Glass
GLZG	Glazing
GRAV	Gravel
GRD	Grade
GSKT	Gasket
GYPBD	Gypsum Board
GYPLA	Gypsum Lath
HB	Hose Bibb
HC	Hollow Core
HJT	Head Joint
HM	Hollow Metal
HVAC	Heating, Ventilating & Air-Conditioning
HBD	Hardboard
HDR	Header
HDWD	Hardwood
HDWR	Hardware
HEX	Hexagonal
HORIZ	Horizontal
HSS	Hollow Steel Section
HT	Height
HTG	Heating
HW	Hot Water
ID	Inside Diameter
INCL	Include(ing)
INSTR	Instruction(tor)
INSUL	Insulate(tion)
INTM	Intermediate
INT	Interior
INV	Invert
ISA	International Symbol of Accessibility
JST	Joist
JT	Joint
KVC	Keen's Veneer Cement
KD	Knockdown
KPL	Kick-plate
KIT	Kitchen
KO	Knock Out
LBS	Pounds
LBT	Lag Bolt
LF	Linear Foot
LH	Left Hand
LPT	Low Point
LAD'R	Ladder
LAM	Laminate(d)
LAV	Lavatory
LBL	Label
LVR	Louver
LOC	Location
LT	Light
MACH	Machine
MB	Machine Bolt / Marker Board
MC	Medicine Cabinet
MT	Metal Threshhold
MAS	Masonry
MAX	Maximum
MBRN	Membrain
MECH'L	Mechanical
MED	Medium
MFG	Manufacturing
MFR	Manufacturer
MH	Man Hole
MIN	Minimum
MIR	Mirror
MISC	Miscellaneous
MLDG	Molding (Moulding)
MKR	Marker
MO	Masonry Opening
MOD	Modular
MS	Mud-Set
MT	Metal Threshold
MTD	Mounted
MTL	Metal
MTL'L	Material
MULL	Mullion
MWK	Millwork
N	North
NIC	Not In Contract
NO	Number
NTS	Not to Scale
NAT	Natural
NOM	Nominal
NRC	Noise Reduction Coefficient
OC	On Center
OCBW	On Center Both Ways
OD	Outside Diameter
O/	Over
OA	Overall
OBS	Obscure
OFLD	Overflow Drain
OHMS	Ovalhead Machine Screw
OHWS	Ovalhead Wood Screw
OVHD	Overhead
OPHD	Opposite Hand
OPAQ	Opaque
OPNG	Opening
OPP	Opposite
PA	Planting Area
PS&P	Patch, Sand & Paint
PSS&S	Patch, Sand, Stain & Seal
PBD	Particle Board
PL	Property Line
PLAM	Plastic Laminate(d)
POC	Point of Connection
POI	Point of Intersection
PT DISP	Paper Towel Dispenser
PT RECP	Paper Towel Receptical
PVC	Poly-Vinyl Chloride
PART	Partition
PC CONC	Precast Concrete
PERF	Perforated
PERIM	Perimeter
PL	Plate

Abbr.	Meaning
PLAS	Plaster
(P)CPL	(Portland) Cement Plaster
PNL	Panel
PNT(D)	Paint(ed)
PRE-FAB	Pre-Fabricated
PLBG	Plumbing
PLYWD	Plywood
PTDF	Pressure Treated D.F.
R	Riser
RA	Return Air
RD	Roof Drain, Relative Density
RH	Right Hand
RJ	Roof Joist
RL	Ridge Line
RO	Rough Opening
RAD	Radius
ROW	Right of Way
RDWD	Redwood
REF	Reference
REINF	Reinforce(ment)
REM	Removal
REQ'D	Required
RES	Resillent
RET	Return
REV	Revision
RFG	Roofing
RFL	Reflect(ed),(ive)or(r)
RM	Room
RO	Rough Opening
RS	Reducer Strip
RTSB	Rubber Top Set Base
RVT	Rivet
RWD	Redwood
RWL	Rainwater Leader
S&P	Shelf and Pole
S	South
SC	Solid Core
SD	Storm Drain, Self-drilling
SEL	Select
SF	Square Foot
SN DISP	Sanitary Napkin Dispenser
SCHED	Schedule
SEC	Section
SGL	Single
SHLF	Shelf
SHLVG	Shelving
SHWR	Shower
SHT	Sheet
SHT MTL	Sheet Metal
SHTG	Sheathing
SIM	Similar
SKLT	Skylight
SPEC	Specification(s)
SPKR	Speaker
SQ	Square
SS	Stainless Steel
STC	Sound Transmission Coefficient
ST	Self Tapping
STD	Standard
STFRNT	Storefront
STL	Steel
STOR	Storage
STRUC	Structure
STRUCT'L	Structural
SUSP	Suspended
SYM	Symetrical
SYS	System
T&B	Top & Bottom
T&G	Tongue & Groove
T	Tread
TB	Towel Bar
THRU	Through
TI	Tenant Improvement
TJ	Tool Joint
TS	Tube Steel
TOB	Top of Beam
TOC	Top of Curb(Conc)
TOM	Top of Masonry
TOP	Top of Plate(Parapet)
TOR	Top of Roof
TORD	Top of Roof Drain
TOS	Top of Sheathing
TOW	Top of Wall
TP DISP	Toilet Paper Dispenser
T PART	Toilet Partition
TSC DISP	Toilet Seat Cover Dispenser
TELE	Telephone
TEMP	Tempered
TEXT	Texture(d)
TH	Threshold
THD	Thread(ed, s)
THK	Thick(ness)
TKBD	Tackboard
TSB	Topset Base
TS	Thermostat
TT&P	Tape, Texture & Paint
TYP	Typical
TV	Television
TW	Tread Width
UNO	Unless Noted Otherwise
UG	Underground
VAC	Vacuum
VERT	Vertical
VIF	Verify in Field
VG	Vertical Grain
VO	Vent Over(Offset)
VR	Vent Riser
VTR	Vent Thru Roof
VAR	Varnish
VCT	Vinyl Composition Tile
VTWB	Vinyl Tackable Wallboard
VEN	Veneer
VERT	Vertical
VPB	Vapor Barrier
VWC	Vinyl Wall Covering
W	West
WC	Watercloset
WD	Wood
WG	Wire Glass
WH	Water Heater / Wafer-head
WHCAB	Wall Hung Cabinet
WI	Wrought Iron
WM	Wire Mesh
WTW	Wall to Wall
WWM	Welded Wire Mesh
WWRM	Welded Wire Reinforcing Mat
W/	With
WH/	Where
W/I	Within
W/O	Without
WOLM	Wolmanized
WDW	Window
WP	Waterproof(ing)
WR	Water Resistant
WS	Weatherstrip
WSCT	Wainscot
WST	Waste
WT	Weight

GENERAL NOTES

GENERAL STANDARDS:

1. NOTHING IN THE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT AN INSTALLATION THAT COULD BE IN VIOLATION OF THE APPLICABLE CODES, ORDINANCES, REGULATIONS RESTRICTIONS, ETC. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE DRAWINGS SHALL CAUSE THE CONTRACTOR TO NOTIFY THE ARCHITECT PRIOR TO MAKING ANY CHANGES IN THE WORK.
3. THE DRAWINGS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/OWNER AND NO PART THEREOF SHALL BE COPIED OR DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS CONSTITUTES CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.
4. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB-SITE AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
5. MISPLACEMENT, ADDITION, OR OMISSION OF ANY WORD, LETTER, FIGURE, PUNCTUATION MARK, ETC., SHALL IN NO WAY CHANGE OR ALTER THE TRUE INTENT, SPIRIT, OR MEANING OF THE DRAWINGS. THE CONTRACTOR SHALL STUDY AND COMPARE ALL DRAWINGS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR INCONSISTENCIES TO THE ARCHITECT BEFORE COMMENCING WORK IN THAT AREA

ALL WORK SHALL CONFORM WITH 2022 T-24, C.C.R.'S & CURRENTLY ADOPTED EDTIONS OF THE FOLLOWING:

PART 1	2022 CALIFORNIA ADMINISTRATIVE CODE, TITLE 24
PART 2	2022 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE, VOL-1 & 2 WITH CALIFORNIA AMENDMENTS)
PART 3	2022 CALIFORNIA ELECTRICAL CODE, T-24, PART-3; C.C.R. (2020 NATIONAL ELEC. CODE OF THE NATIONAL FIRE-PROTECTION ASSOCIATION, NFPA)
PART 4	2022 CALIFORNIA MECHANICAL CODE, T-24, PART-4 C.C.R. (2021 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5	2022 CALIFORNIA PLUMBING CODE, T-24, PART-5 C.C.R. (2021 UNIFORM PLBG. CODE OF THE INTERNATIONAL ASSOCIATION OF PLBG. & MECH. OFFICIALS, IAPMO & CALIFORNIA AMMENDMENTS)
PART 6	2022 CALIFORNIA ENERGY CODE, TITLE 24. PART-6 C.C.R.
PART 9	2022 CALIFORNIA FIRE CODE, T-24, PART-9; C.C.R (2021 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
PART 12	2022 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 10	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2021 EDITION
NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS	2022 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE AND SIGNALING CODE (CALIFORNIA AMENDED)	2022 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, REFERENCE CODE SECTION FOR NFPA STDS-CBC (SFM0 3504.1	2018 EDITION
UL464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS w/ REVISIONS THROUGH JULY 20, 2005'	1999 EDITION

GENERAL NOTES:

A. IF CONFLICTS BETWEEN VARIOUS ELEMENTS (CIVIL, ARCHITECTURAL, ELECTRICAL OR SPEC.S) ON THE DRAWINGS ARE DISCOVERED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN ACCORDANCE W/ THE CONDITIONS OF THE CONTRACT. SUBMIT RFI'S TO THE DESIGN TEAM IN CASE OF INCONSISTENCIES BETWEEN APPROVED DWG.S AND OR APPROVED SPEC.S IN THE DESCRIPTIONS OF WORK TO BE DONE, EQUIP. TO BE PROVIDED OR MATERIAL TO BE USED. IT SHALL BE THAT THE MORE STRINGENT, THE MORE RESTRICTIVE, THE HIGHER QUALITY & THE GREATER QUALITY OF WORK SHALL APPLY. SUBMIT REVISED DWG.S OR SPEC.S AS A RESULT OF SUCH RFI'S TO DSA VIA CCD'S, SIGNED BY THE ARCHITECT, FOR APPROVAL BY D.SA..

B. THESE PROPOSED DWG;S ARE BASED ON PLANS BY OTHERS, FURNISHED BY THE DISTRICT, INDICATING WORK OF PREVIIOUS CONCTRACTS. THE EXISTING DWG'S WILL BE MADE AVAILABLE FOR THE CONTRACTOR 'S REVIEW UPON REQUEST. THE OWNER, THE ARCHITECT AND THE ENGINEERS SHALL ASSUME NO RESPONSIBILITY FOR THE EXISTING CONDITIONS AND MEASUREMENTS INDICATED ON THE PROPOSED PLANS. EXISTING DIMENSION INDICATED ON THE DWG.S HAVE BEEN PROVIDED FROM INFORMATION OBTAINED FROM THE DISTRICT. THE CONTRACTOR SHALL USE ANY MEANS NECESSARY TO VERIFY DIMENSIONS IN THE AREAS OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MEASUREMENTS & CONDITIONS NECESSARY TO COMPLETE THE WORK AS INDICATED BY THE INTENT OF THESE PLANS PRIOR TO PROCEEDING WITH THE WORK OF THIS CONTRACT. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING WORK IN THE AREA IN QUESTION.

C. CHANGES TO APPROVED DWGS & SPEC.S SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD TYPE A) SIGNED BY THE ARCHITECT & APPROVED BY D.S.A., AS REQ'D BY SECT. 4-338, PART 1, T-24, CCR, PRIOR TO FABRICATION AND INSTALLATION. ALL SUBSTITUTIONS OF PRODUCTS OR DESIGNS WHICH AFFECT THE STRCUTURAL SAFTEY, FIRE & LIFE SAFTEY OR ACCESSIBILITY OR THE WORK MUST BE SUBMITTED TO DSA AS A CCD FOR REVIEW AND APPROVAL

D. DSA CERTIFIED "CLASS 3" PROJECT INSPECTOR SHALL BE ARCHITECT & DSA APPROVED & EMPLOYED BY G.S.S.D. THE SITE I.OR. SHALL WITNESS & VERIFY GROUNDING & PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE I.O.R ARE DEFINED IN SECT. 4-342, PART 1, T-24, CCR. THE I.O.R. SHALL VERIFY ITEMS D.1 TO D.3 PRIOR TO SETTING THE BLDG.S. THE DOCUMENTS BELOW SHALL BE ONSITE PRIOR TO SETTING THE BLDG.S. THE I.O.R. SHALL SEND COPIES OF ITEM-D.1 TO DSA. THE I.O.R. SHALL VERIFY THAT EA. BLDG. IS PLACED IN THE LOCATION SHOWN ON THE DSA APPROVED SITE PLAN w/ SERIAL NUMBERS PER THIS DSA APPROVED APPLICATION.
1. IN-PLANT INSPECTOR'S INSPECTION CARD/VERIFIED REPORT FORM (DSA-152-IPI) FOR EACH UNIT OF STKP 04-105453 USED FOR APPLICATION 03-124658
2. WELDING VERIFIED REPORTS
3. SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT INSTALL
4. LAB VERIFIED REPORTS
5. T-24, PARTS 1-5 AND 9
6. CALTRANS SPECIFICATIONS FOR GRADING
7. SET OF "AS-BUILTS", BROUGHT UP TO DATE EACH DAY

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

F. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATIONS, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITION SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE THE FINISHED WORK WILL NOT COMPLY WITH T-24, C.C.R., A CONSTRUCTION CHANGE DOCUMENT (CCD TYPE A) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY D.S.A. BEFORE PROCEEDING WITH THE REPAIR WORK, (SECTION 4-317(C)M PART-1 TITLE-24M C.C.R.)

G. CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF A D.S.A. REPRESENTATIVE.

H. A D.S.A. ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL DISTRICT SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

I. DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION: IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE STRUCTURE NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE C.B.C. IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CONSTRUCTION CHANGE DOCUMENT (CCD-A), OR A SEPARATE SET OF PLANS & SPEC.S DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY D.S.A. BEFORE PROCEEDING WITH THE REPAIR WORK.

J. ALL ARCHITECTURAL & ELECTRICAL MATERIALS AND INSTALLATION SHALL COMPLY W/ APPLICABLE CODES, STD.S & MANUFACTURER'S RECOMMENDATIONS.

K. WHENEVER D.S.A. FINDS ANY CONSTRUCTION WORK BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF THE C.B.C., THAT WOULD COMPROMISE THE BLDG.'S STRUCTURAL INTEGRITY, THE DEPT. OF GEN. SERVICES, STATE OF CA., IS AUTHORIZED TO ISSUE A STOP WORK ORDER" PER SECT. 4-334.1 CA. ADMIN. CODE (PART-1, T-24, CCR).

L. PER 2022 C.B.C. SECTION 1705.A.3.3.1, CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET: 1) THE CONCRETE PLANT COMPLIES FULLY WITH THE REQUIREMENTS OF ASTM C94, SECTION-9 & 10 AND HAS A CURRENT CERTIFICATE FROM THE NATIONAL READY MIXED CONCRETE ASSOCIATION OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES. AN APPROVED AGENCY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY TO VERIFY MATERIALS & PROPORTIONS CONFORM TO THE TO THE APPROVED MIX DESIGN. 2) A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET, INCLUDING MATERIAL QUANTITIES AND WEIGHTS. THIS SHALL ACCOMPANY ALL LOADS OF CONCRETE & SHALL BE TRANSMITTED TO THE PROJECT INSPECTOR BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. 3) THE LOAD OF CONCRETE SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. 4) THE PROJECT INSPECTOR SHALL KEEP A DAILY RECORD OF CONCRETE PLACEMENTS, IDENTIFYING EACH TRUCK, IT'S LOAD, AND TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY DSA.

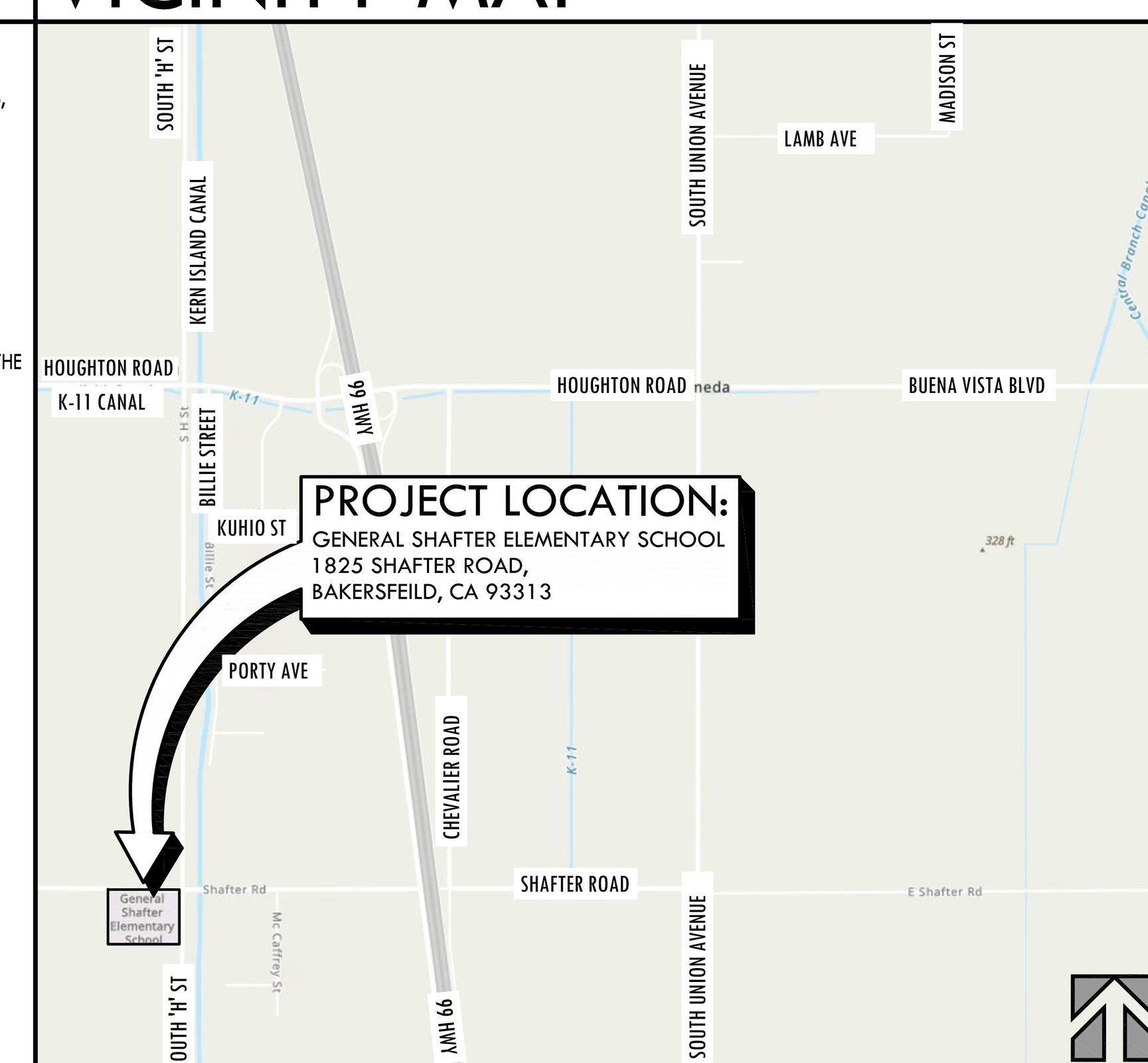
M. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT THE NEWLY INSTALLED EQUIPMENT IS OPERATING AND COMPLIANT WITH THE ENERGY CODE. LIGHTING CONTROLS ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNIICIAN (ATT). MECHANICAL SYSTEMS ACCEPTANCE TESTS MUST BE PREFORMED BY A CERTIFIED MECHANICAL ATT FPR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TEST SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD OR THE OWNER'S AGENT. A LISTING OF CERTIFIED ATT CAN FOUND AT: HTTP://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNITION-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE. THE ACCEPTANCE TESTING PROCEEDURE MUST BE REPEATED AND DIFFICIENCEIS MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTILL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORMS AND PASS THE REQUIRED ACCEPTANCE CRITERIA. PROJECT INSPECTOS WILL CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

N. DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS

O. WHENEVER DSA FINDS ANY CONSTRUCTION WORK BEING PERFORMED IN A MANNR CONTRARY TO THE PROVISION OF CALIFONIA'S BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF TH BLDG. THE DEPT. OF GENERAL SERVICES, STATE OF CA. IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CA. ADMINISTRATIVE CODE (PART-1, TITLE-24, CCR)

P. SUBMIT RFI'S TO DESIGN TEAM IN CASE OF INCONSISTENCIES BETWEEN APPROVED DRAWINGS AND SPECIFICATIONS IN THE DESCRIPTION OF WORK TO BE DONE, EQIPMENT TO BE PROVIDED OR MATERIAL TO BE USED. IT SHALL BE THE MORE STRINGENT, THE MORE RESTRICTIVE, THE HIGHER QUALITY & THE GREATER QUANTITY OF WORK SHALL APPLY. SUBMIT REVISED DWGS OR SPEC.S AS RESULT OF SUCH RFI'S TO DSA VIA CCD'S AS REQ'D BY IR A-6.

VICINITY MAP



SCOPE OF WORK

(CONTRACT-1 MODULAR BLDG MFR, CONTRACT-2 BY CONTRACTOR)

CONTRACT I - MODULAR BUILDING MFR.

ALL LABOR, MATERIALS, & EQUIP. AS REQ'D & NECESSARY TO DELIVER TO THE JOB-SITE & SET (4) MODULES ONSITE & COMBINE INTO (2) 24'x40' MODULAR CLSRM. BUILDINGS PER STKP 04-104778. SET ON WOOD FOUNDATIONS, CONNECT & INSTALL THE GALV. VENT SCREENS, JT-COVERS & (2) MODULAR PLATFORMS & RAMPS. THE RELOCATABLE BLDG. SUPPLIER SHALL INSTALL PLYWD SKIRTING TO MATCH THE (E) RELO'S TO COVER THE FOUNDATION & RAMP FRAMING AND REINSTALL (E) T-GRID PANELS AFTER FIRE SPRINKLERS INSTALLED BY CONTRACT-II. THE MODULAR BLDG.S SHALL BE COMPLETE, READY FOR UTILITY HOOK-UPS BY OTHERS (SEE CONTRACT-II). THE MODULAR BLDG. SUPPLIER SHALL COORDINATE W/ THE SITE IMPROVEMENT CONTRACTOR TO ENSURE FUNCTIONAL BUILDINGS

CONTRACT II - SITE IMPROVEMENTS

ALL LABOR, MATERIALS & EQUIP. REQUIRED & NECESSARY TO PROVIDE SITE IMPROVEMENTS FOR (2) 24x40 RELOCATABLE CLSRM'S. WORK TO INCLUDE BUT NOT NECESSARILY LIMITED TO SAW-CUT & DEMO (E) CONC WALKS, C/L FENCING & (E) TURF & SPRINKLERS. PROVIDE FIRE WATER, FIRE-RISER, STORM DRAINS, SITE GRADING, CONC. PAVING, C/L FENCING, CURBS, FTG.S & AGG. FILL. INSTALL FIRE SPRINKLERS WITHOUT MODIFYING (E) T-GRID & INSTALL EXTINGUISHER, DOOR HDWR AS REQ'D, SIGNAGE, TRENCHING, TIE-IN'S TO UTILITIES P.O.C. FOR PWR., SIGNAL, FIRE ALARM, GROUNDING & FIRE WATER. PROVIDE UNDER-FLR. VENTS PER ARCH. DWG.S. CONTRACTOR SHALL COORD. w/ WILLSCOT.COM (CONTRACT-1) TO ENSURE A COMPLETE & FUNCTIONAL INSTALLATION.

SITE DATA

RISK CATEGORY	II
SITE CLASS	D
S_{MS}	1.54
S_{M1}	1.02
S_{DS}	1.03
S_{D1}	0.68
S_s	1.28
S_1	0.40
SEISMIC DESIGN CATEGORY	D
SOIL BEARING PRESSURE	1,000 PSF
ULTIMATE WIND SPEED	94 Vmph
WIND EXPOSURE	C
CLIMATE ZONE	13
FLOOD HAZARD	DESIGNATION: ZONE X, (06029C2725E), 09-26-2008

DESIGN TEAM

OWNER

GENERAL SHAFTER SCHOOL DISTRICT
1825 SHAFTER ROAD
BAKERSFIELD, CA., 93313
(661) 837-1931
CHRIS SALYARD-CHIEF ADMIN. OFFICER
(661) 204-4713

ARCHITECT

SCARCHITECT, INC.
1601 NEW STINE RD., SUITE 280
BAKERSFIELD, CA 93309
(661) 397-4377
FAX (661) 397-4378
STEPHEN J. CORBIN, AIA, NCARB

CONSULTING ENGINEERS

CIVIL	ELECTRICAL	MECHANICAL
SWANSON ENGINEERING	DPG ENGINEERING, INC.	BASKIN MECH. ENGINEERS
2000 OAK ST., SUITE 150	6702 N CEDAR AVE, ST 205	175 FULTON STREET
BAKERSFIELD, CA 93301	FRESNO, CA 93710	FRESNO, CA 93721
(661) 831-4919	(559) 276-5144	(559) 237-0376
FAX (661) 831-4929	FAX (559) 900-4929	FAX (559) 437-40297
MIKE M. NOEL	DAVOR P. GOLIK	MARK BASKIN

SHEET INDEX

RELOCATABLE BUILDINGS FROM STOCKPILE

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS WHO UTILIZE P.C. DWG.S (04-104778), PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS; THE DWG.S LISTED ON THE "WILSCOT | MOBILE MINI" INDEX; HAVE BEEN PREPARED BY DESIGN ROFESSIONALS WHO ARE LICENSED TO PREPARE DWG.S IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:
1- DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQ'MT'S OF T-24, CA. CODE OF REG.S & THE PROJECT SPEC.S PREPARED BY ME, AND
2- COORDINATE WITH MY PLANS AND SPEC.S & ARE ACCEPTABLE FOR BEING INCORPORATED INTO THE CONSTRUCTION DWG.S OF THIS PROJECT
THE STATEMENT OF GEN. CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES & RESPONSIBILITIES UNDER SECT.S 17302 & 81138 OF THE EDU. CODE & SECT.S 4-336, 4-341 & 4-344 OF T-24, PT-1, SECT. 4-316(b). I FIND THAT ALL DWG.S LISTED ON THE "WILSCOT | MOBILE MINI" INDEX ARE IN GEN. CONFORMANCE W/ THE DESIGN INTENTS & HAVE BEEN COORDINATED INTO THE PLANS & SPEC.S.

PURSUANT TO DSA POLICY 07-02 APPENDIX A, OTC PACKAGE CHECKLIST, ITEM D-RELOCATION PROJECT #3;
I SHALL BE RESPONSIBLE TO VERIFY BY APPROPRIATE MEANS SUBJECT TO DSA APPROVAL, THAT THE MODULAR BLDG.S TO BE MOVED FOR THIS APPLICATION SHALL CONFORM TO THE ORIGINALLY APPROVED PLANS & SPECIFICATIONS & HAVE NOT BEEN ALTERED STRUCTURALLY OR SUFFERED STRUCTURAL DETERIORATION.

SIGNATURE: ARCHITECT DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE — DATE: 09-19-2024

NAME: STEPHEN J. CORBIN, AIA, NCARB, LEED-AP BD+C — LICENSE NUMBER: C-16788 — EXPIRATION DATE: 11-30-2025

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 REN 11-30-25 STATE OF CALIFORNIA

WILLSCOT | M.S.I. — RELOCATABLES BLDG.S

PC: 04-104778; UNIT-16 SN: 20156-20157, UNIT-17 SN: 20194-20195

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124658 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2025

PTN : 63487-7 FILE: 15-70

2-24x40 RELOCATABLE CLASSROOMS AT
GENERAL SHAFTER ELEMENTARY SCHOOL
1825 SHAFTER ROAD, BAKERSFEILD, CA 93313
FOR
GENERAL SHAFTER SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

SC ARCHITECT inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 REN 11/30/25 STATE OF CALIFORNIA
STEPHEN J. CORBIN, AIA, NCARB, LEED®-AP BD+C

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

TITLE SHEET, SHEET INDEX & VICINITY MAP

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.: 1389
DRAWN : SH
CHECKED : MMS
DATE : 8/9/24

T 0.0
- OF -- SHEETS

GRADING PLANS FOR
2 RELOCATEABLE CLASSROOMS

GENERAL SHAFTER ELEMENTARY SCHOOL
1825 SHAFTER ROAD
BAKERSFIELD, CALIFORNIA 93313

GRADING NOTES

1. ALL GRADING SHALL CONFORM TO THE COUNTY OF KERN ORDINANCES AND STANDARDS PERTAINING THERETO (CALIFORNIA BUILDING CODE, 2022) AND SHALL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH COUNTY OF KERN ORDINANCES.

2. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITHIN HIS PURVIEW.

3. THE SOIL ENGINEER, DESIGN ENGINEER, AND BUILDING OFFICIAL SHALL BE NOTIFIED 48 HOURS PRIOR TO PLACING ANY MATERIAL.

4. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ARCHITECT, AND THE ENGINEER HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, OR THE ENGINEER.

5. THE GRADING CONTRACTOR SHALL CONTACT ALL COMPANIES WITH UNDERGROUND FACILITIES PRIOR TO BEGINNING CONSTRUCTION AND VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES, INCLUDING TELEPHONE, ELECTRIC, WATER, SEWER, OIL AND GAS LINES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED LINES NOT INDICATED ON THE PLAN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES. (USA – 811)

6. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING ALL AREAS TO + OR – 0.10 FOOT. IF AN AREA SHOULD BE FOUND TO BE MORE THAN 0.10 FOOT OUT OF TOLERANCE AFTER COMPACTING AND COMPLETION OF GRADING, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER. GRADING TOLERANCE FOR BUILDING PADS SHALL BE + 0.0 FOOT TO – 0.04 FOOT.

7. THE CONTRACTOR SHALL WATER AS REQUIRED DURING THE GRADING OPERATIONS TO PREVENT THE OCCURRENCE OF A DUST NUISANCE AND SHALL PROTECT CURBS AND OTHER OBJECTS WHICH ARE TO REMAIN. DUST CONTROL SHALL CONFORM TO THE SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT REGULATIONS.

8. EXCAVATION – EXCAVATION SHALL CONSIST OF ALL EXCAVATION INVOLVED IN GRADING THE PROJECT AS SHOWN ON THE PLANS. THIS SHALL INCLUDE EXPORTING MATERIAL TO AN OFF-SITE LOCATION, AS REQUIRED.

9. EMBANKMENTS – EMBANKMENT CONSTRUCTION SHALL CONSIST OF CONSTRUCTING EMBANKMENTS, INCLUDING THE PREPARATION OF AREAS WHERE THEY ARE TO BE PLACED, THE CONSTRUCTION OF DIKES WITHIN OR OUTSIDE THE CONSTRUCTION AREA, THE PLACING AND COMPACTING OF APPROVED MATERIAL WITHIN THE CONSTRUCTION AREA WHERE UNSUITABLE MATERIAL HAS BEEN REMOVED, AND THE PLACING AND COMPACTING OF EMBANKMENT MATERIAL IN HOLES, PITS, AND DEPRESSIONS. IT SHOULD ALSO CONSIST OF PREPARING SUB-GRADE AT THE GRADING PLANE, CONFORMING TO THE GRADE TOLERANCE, DOING NECESSARY PLOWING OR BENCHING, IMPORTING OR EXPORTING, PLACING AND COMPACTING MATERIAL TO THE LINE AND GRADES SHOWN ON THE PLANS. ALL EMBANKMENT CONSTRUCTION SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE.

10. THE WORK EMBRACED HEREIN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DATED JULY 2018 (UNLESS OTHERWISE SPECIFIED), INSOFAR AS THE SAME MAY APPLY IN ACCORDANCE WITH THE NOTES HERON. IN CASE OF CONFLICT WITH THE STANDARD SPECIFICATIONS AND ANY NOTES HEREON, THE NOTES HEREON SHALL TAKE PRECEDENCE OVER AND BE USED IN LIEU OF SUCH CONFLICTING PORTIONS. SAID SPECIFICATIONS SHALL APPLY BUT NOT BE LIMITED TO THE FOLLOWING:

A) ALL CONCRETE SHALL BE CLASS "3" USING TYPE II/V CEMENT AS IN ACCORDANCE WITH SECTION 90 AND SHALL HAVE AT LEAST 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, PER CALTRANS STANDARD SPECIFICATIONS (2006) UNLESS OTHERWISE SPECIFIED.

B) ASPHALTIC CONCRETE SHALL BE TYPE "B", 1/2" MAXIMUM, MEDIUM GRADED, AND INTIMATELY MIXED WITH 5–6.5% ASPHALT PER CALTRANS STANDARD SPECIFICATIONS (2006). NO R.A.P. (RECLAIMED ASPHALT PAVEMENT) SHALL BE USED. ASPHALT SHALL BE PERFORMANCE GRADE PG64–10.

11. SWANSON ENGINEERING SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED, IN WRITING, BY SWANSON ENGINEERING.

12. N/A

13. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL POTHOLE ALL UTILITIES THAT WILL BE AFFECTED BY THIS CONSTRUCTION TO DETERMINE IF ANY UTILITY CONFLICTS EXIST. ANY UTILITY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT DESIGN CHANGES CAN BE MADE PRIOR TO THE START OF CONSTRUCTION.

14. UPON COMPLETION OF GRADING AND BEFORE THE START OF CONSTRUCTION, A FINAL SOILS REPORT SHALL BE PREPARED BY THE SOIL ENGINEER.

15. THE SOIL ENGINEER SHALL REVIEW ALL EXCAVATIONS PRIOR TO BACKFILLING AND SHALL BE NOTIFIED OF ANY ITEM ENCOUNTERED DURING THE GRADING OPERATIONS THAT MIGHT AFFECT FOUNDATION STABILITY SO THAT RECOMMENDATIONS CAN BE MADE BY THE SOIL ENGINEER.

16. CUT AND FILL SLOPES NEARER THAN FIVE FEET FROM THE BUILDING FOUNDATIONS SHALL NOT BE STEEPER THAN 5:1. CUT AND FILL SLOPES SHALL NOT BE STEEPER THAN 2:1 FOR SLOPES FARTHER THAN FIVE FEET FROM FOOTING LINES.

17. ALL SLOPES GREATER THAN THREE FEET IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO PREVENT EROSION.

18. IMPORTED FILL MATERIAL SHOULD CONSIST OF ESSENTIALLY GRANULAR, SILTY SANDS WITH LOW EXPANSION POTENTIAL AND FREE OF GRASSES, WEEDS, ROCKS LARGER THAN TWO INCHES IN DIAMETER, DEBRIS, AND SOLUBLE SULFATES IN EXCESS OF 200 PARTS PER MILLION. IMPORTED FILL SHOULD CONTAIN SUFFICIENT SILT AND CLAY BINDER TO RENDER THEM STABLE IN FOOTING TRENCHES AND CAPABLE OF MAINTAINING SPECIFIED ELEVATION TOLERANCES DURING PAVING OPERATIONS. ANY EARTHEN MATERIALS PROPOSED TO BE BROUGHT ONTO SCHOOL SITES ARE SUBJECT TO TESTING TO VERIFY THEY ARE IN COMPLIANCE WITH DTSC STANDARDS. OWNER SHALL DETERMINE IF TESTING OF MATERIALS IS REQUIRED PRIOR TO ANY MATERIAL BEING BROUGHT ONTO THE SITE. TESTING OF MATERIALS MAY TAKE UP TO TWO WEEKS TO VERIFY COMPLIANCE WITH DTSC STANDARDS.

IMPORTED SOILS SHOULD ALSO MEET THE FOLLOWING CRITERIA:

A) MAXIMUM % PASSING #200 SIEVE 50
B) MAXIMUM LIQUID LIMIT 40
C) MAXIMUM PLASTICITY INDEX 14
D) MINIMUM R-VALUE 50
E) MAXIMUM EXPANSION INDEX 20

19. CLEARING AND GRUBBING – REMOVE ALL DEBRIS, SUCH AS METAL, TRASH, ROCKS GREATER THAN 2" IN DIAMETER, BROKEN CONCRETE, VEGETATION, OTHER BIODEGRADABLE SUBSTANCES, AND UNSUITABLE SOIL FROM AREAS TO BE GRADED. UNSUITABLE SOIL IS SOIL THAT, IN THE OPINION OF THE BUILDING OFFICIAL, SOIL ENGINEER, OR CIVIL ENGINEER, IS NOT COMPETENT TO SUPPORT OTHER SOIL OR STRUCTURES, OR TO SATISFACTORILY PERFORM ANY OTHER FUNCTIONS FOR WHICH THE SOIL IS INTENDED.

20. AREAS TO RECEIVE FILL SHALL BE SCARIFIED SIX INCHES, OR AS RECOMMENDED IN THE SOIL REPORT, WHICHEVER IS GREATER, UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD TEND TO PREVENT UNIFORM COMPACTION BY THE EQUIPMENT TO BE USED. MOISTEN AND COMPACT TO AT LEAST 90% OF THE MAXIMUM DENSITY PER ASTM D1557 UNLESS OTHERWISE SPECIFIED.

21. ENGINEERED FILL MATERIALS SHOULD BE PLACED IN THIN LAYERS WHICH, WHEN COMPACTED, SHALL NOT EXCEED SIX (6) INCHES IN THICKNESS, BROUGHT TO NEAR THE OPTIMUM MOISTURE CONTENT OR TO A MOISTURE CONTENT COMMENSURATE WITH EFFECTIVE COMPACTION AND SOIL STABILITY, AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE BY ASTM TEST METHOD D1557.

22. QUANTITIES FOR EARTHWORK

EXCAVATION – 150 C.Y.
EMBANKMENT – 120 C.Y.

QUANTITIES ARE FOR GRADING PERMIT ONLY. THE ENGINEER MAKES NO WARRANTY OF THE ANTICIPATED SHRINKAGE FACTOR. THE CONTRACTOR SHALL NOT USE THESE QUANTITIES TO BASE HIS BID ON. THE GRADING PLAN DOES NOT NECESSARILY INDICATE A BALANCED SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING MATERIALS FROM AN OFF-SITE LOCATION OR EXPORTING EXCESS MATERIAL TO AN OFF-SITE LOCATION, AS NEEDED.

23. CONTRACTOR TO VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS IN THE FIELD BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES THAT WILL AFFECT TIE-INS TO EXISTING IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

24. BUILDING PAD PREPARATION: EXCAVATE EARTH MATERIAL TO A MINIMUM DEPTH OF ONE (1) FOOT BELOW THE LOWEST GRADE IN EACH OF THE PROPOSED BUILDING AREAS, OR ONE (1) FOOT BELOW THE LOWEST FOUNDATION, WHICHEVER IS DEEPER. THE BOTTOM OF THE EXCAVATION SHALL BE REVIEWED BY THE SOIL ENGINEER OR HIS REPRESENTATIVE PRIOR TO ANY BACKFILL OPERATIONS. MOISTEN IMPORTED SOILS TO NEAR THE OPTIMUM MOISTURE OR TO A MOISTURE CONTENT CONSISTENT WITH EFFECTIVE COMPACTION AND SOILS STABILITY. COMPACT MOISTENED SOILS TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINED BY ASTM TEST METHOD D1557. WORK TO LINES AT LEAST TWO (2) FEET BEYOND THE OUTSIDE EDGES OF EXTERIOR FOOTINGS AND TWO FEET BEYOND PAVEMENT EDGES.

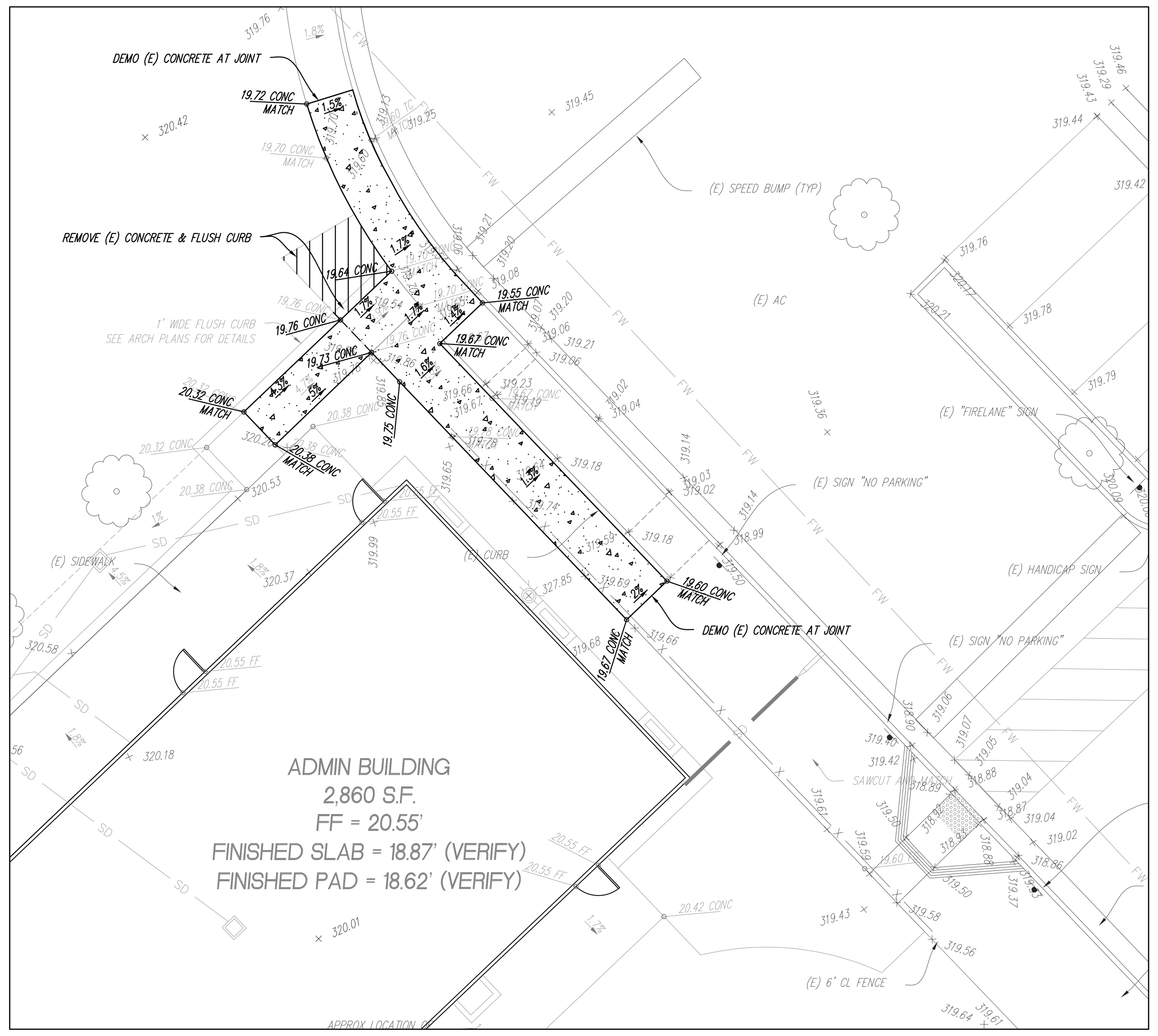
25. PAVEMENT AND FLATWORK AREA PREPARATION: GROUND SURFACES TO RECEIVE CONCRETE DRIVEWAY AND BITUMINOUS PAVEMENTS SHOULD BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE GRADING PLANE IN CUT AREAS OR TO 12 INCHES IN AREAS TO RECEIVE FILL. ENGINEERED FILL PLACED IN PROPOSED PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY AS OBTAINED BY ASTM TEST METHOD D1557, AND SHOULD EXTEND TO A MINIMUM OF TWO FEET BEYOND THE OUTSIDE EDGES OF PAVEMENT.

26. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET.

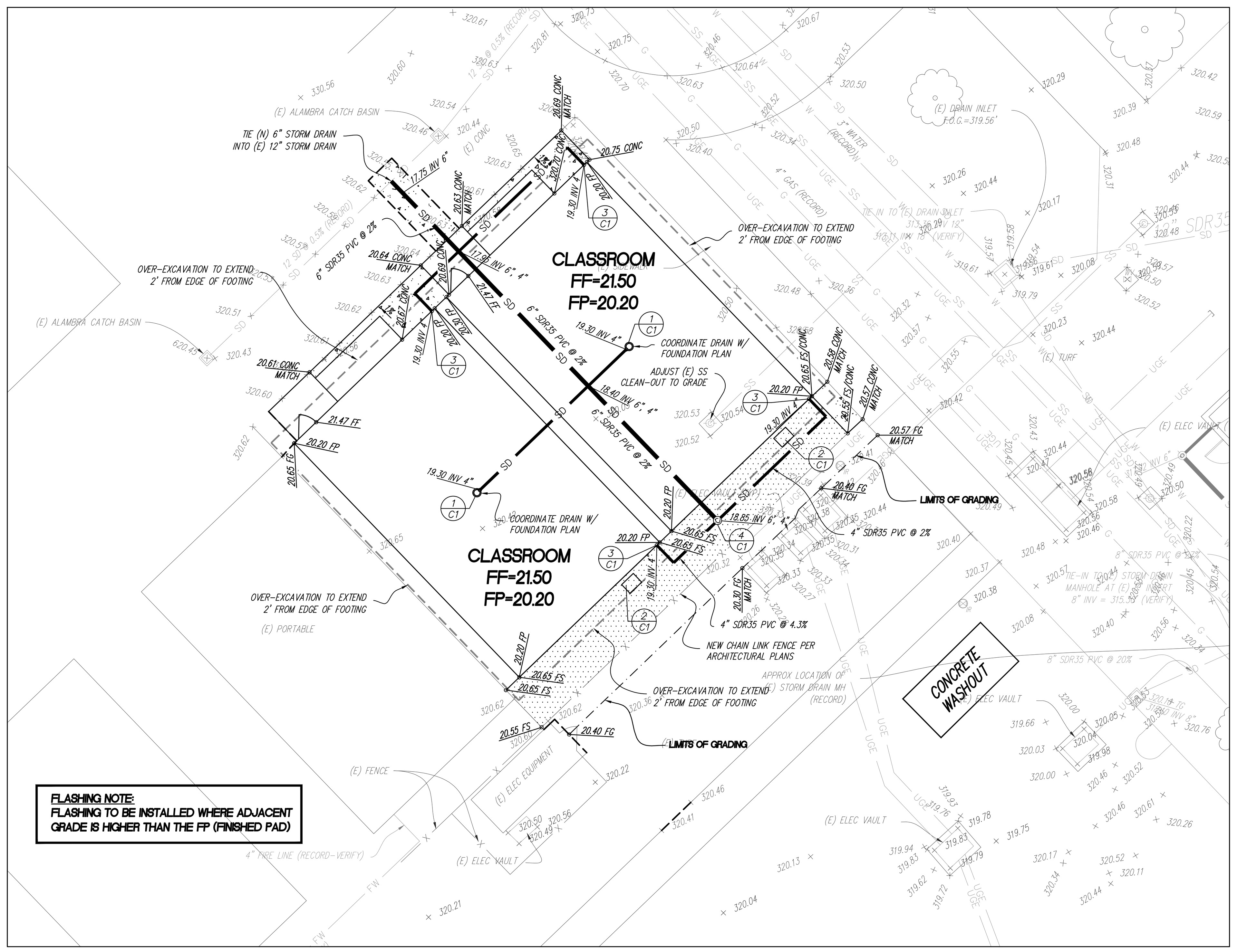
27. N/A

28. N/A

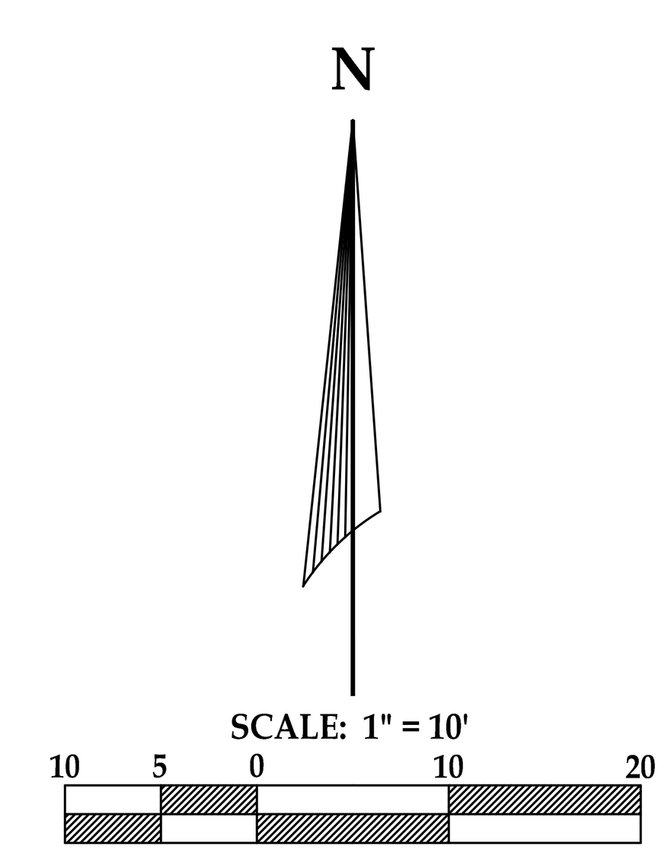
29. N/A

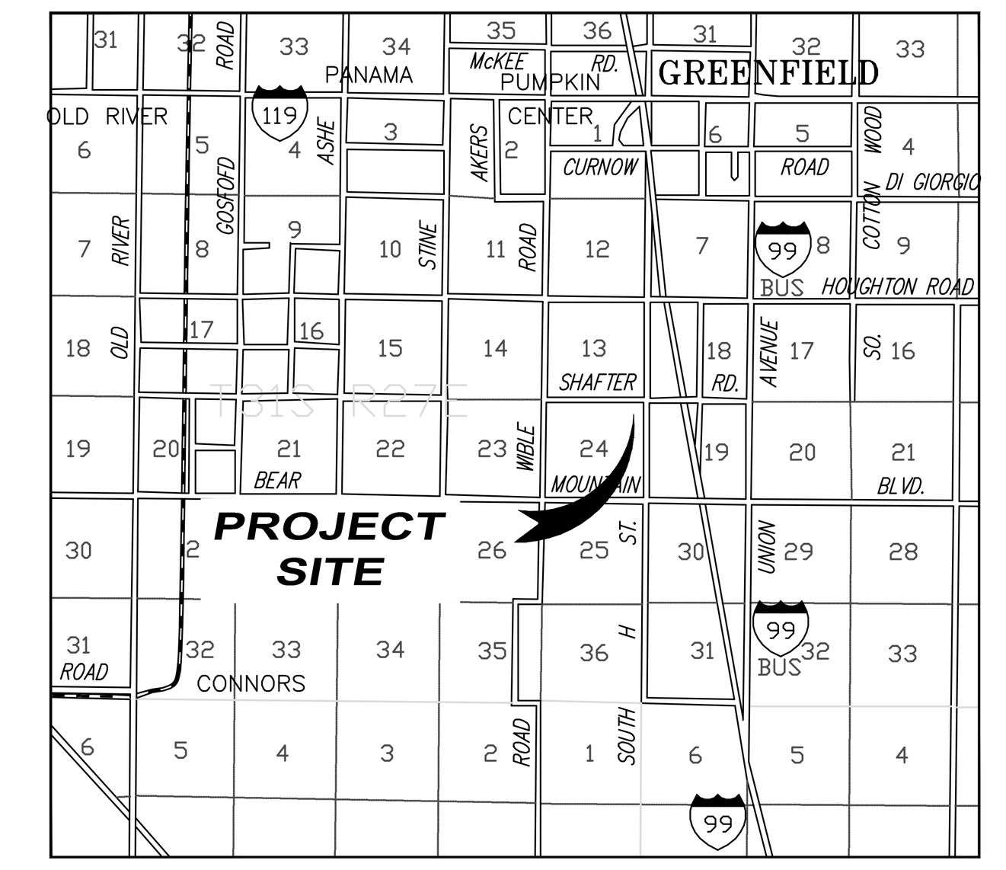


PROJECT AREA – NORTH



PROJECT AREA – SOUTH





VICINTIY MAP
N.T.S.

LEGEND:

ABBREVIATIONS:

(E)	EXISTING
TYP.	TYPICAL
FD.	FOUND
BK.	BOOK
PG.	PAGE
C.O.K.	COUNTY OF KERN
C.O.B.	CITY OF BAKERSFIELD
O.R.	OFFICIAL RECORDS
CONC	CONCRETE
A.C.	ASPHALT PAVEMENT
FG	FINISH GRADE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
FF	FINISHED FLOOR
FP	FINISHED PAD
TP	TOP OF PAVEMENT
GB	GRADE BREAK
CL	CENTERLINE

EXISTING FIRE HYDRANT
EXISTING WATER METER
EXISTING WATER VALVE
EXISTING HOSE BIB
EXISTING POWER POLE
EXISTING STREET LIGHT
FOUND MONUMENT
EXISTING TRAFFIC SIGN
EXISTING SEWER MANHOLE
EXISTING STORM DRAIN MANHOLE
EXISTING SEWER CLEANOUT
EXISTING IRRIGATION VALVE
EXISTING TELEPHONE PULL BOX
EXISTING GAS METER
EXISTING ELECTRICAL PULL BOX
EXISTING LIGHT POLE
DESIGN ELEVATION
DETAIL CALLOUT
CLEAN-OUT TO GRADE

EXISTING STORM DRAIN LINE
EXISTING FIBER OPTIC LINE
EXISTING WATER LINE
EXISTING SEWER LINE
EXISTING GAS LINE
EXISTING FENCELINE
EXISTING ELECTRIC LINE
EXISTING OVERHEAD ELECTRIC LINE
EXISTING PROPERTY LINE
EXISTING SECTION LINE
EXISTING RIGHT-OF-WAY
EXISTING CURB & GUTTER
EXISTING GROUND CONTOUR LINE & ELEVATION
SAWCUT
LIMITS OF GRADING
STORM DRAIN – SDR35 PVC
PATH OF TRAVEL

6" OF ¾" AGG BASE / LANDSCAPE FABRIC / 12" NATIVE COMPACTED TO 90%
4" CONCRETE / 12" NATIVE COMPACTED TO 90%

SHEET INDEX

C1 – GRADING PLAN
C2 – PATH OF TRAVEL
F1 – FIRE WATER PLAN

BENCHMARK

TOP K.C.S. CONCRETE MONUMENT AT CENTERLINE INTERSECTION OF SOUTH H STREET AND SHAFTER ROAD.

ELEVATION = 320.65'
ADD 300.00' TO ALL DESIGN ELEVATIONS

BASIS OF BEARINGS

THE NORTH LINE OF THE NE 1/4 OF SECTION 24, T.31S., R.27E. M.D.M. PER KCS FILED MAP, BK. 6 PG. 127 O.R. ALSO BEING THE THE CENTERLINE OF SHAFTER ROAD HAVING A BEARING OF S88°45'38"E WAS TAKEN AS THE BASIS OF BEARINGS SHOWN HEREON.

LEGAL DESCRIPTION

LOTS 1 AND 8 OF SECTION 24, T.31S., R.27E., M.D.M., ACCORDING TO THE "SALES MAP OF LANDS OF THE KERN COUNTY LAND COMPANY" FILED AUGUST 27, 1892 IN THE OFFICE OF THE KERN COUNTY RECORDER.

ADDRESS

1825 SHAFTER RD., BAKERSFIELD, CA

APN

184–392–51,53

UTILITY NOTE

NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES.

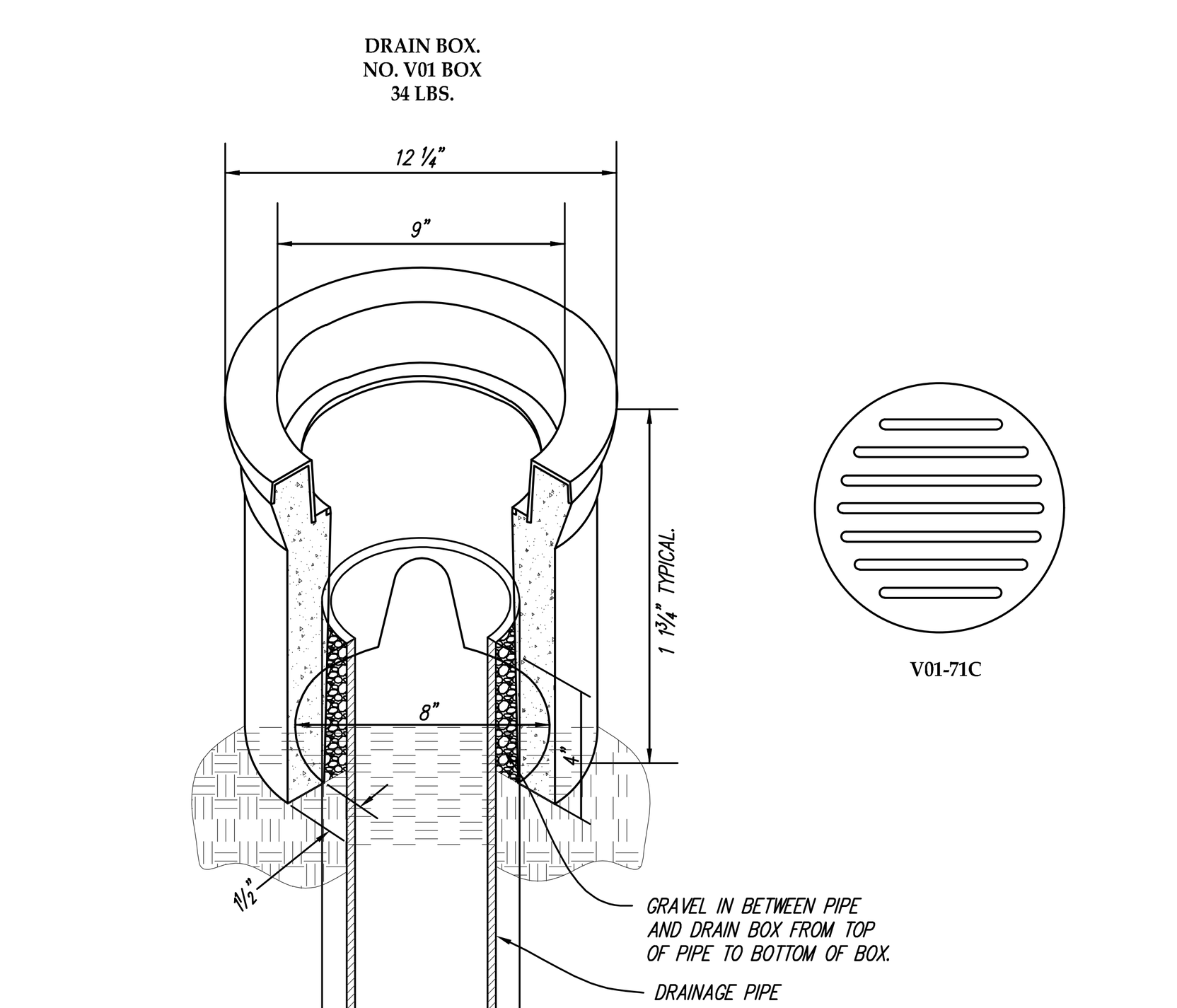
TRENCHING NOTE

ALL ON-SITE WET UTILITY TRENCHING PER DETAIL 5, SHEET C1 UNLESS OTHERWISE SPECIFIED.

REGISTERED PROFESSIONAL ENGINEER ROBERT T. SWANSON No. 43032 EXP. 3-31-26 STATE OF CALIFORNIA

SWANSON ENGINEERING, INC.
© 2024
2000 Oak Street, Suite 150 ~ Bakersfield, CA 93301
p:(661) 831-4919; f:(661) 873-4777
JOB#– 24–037 BTC

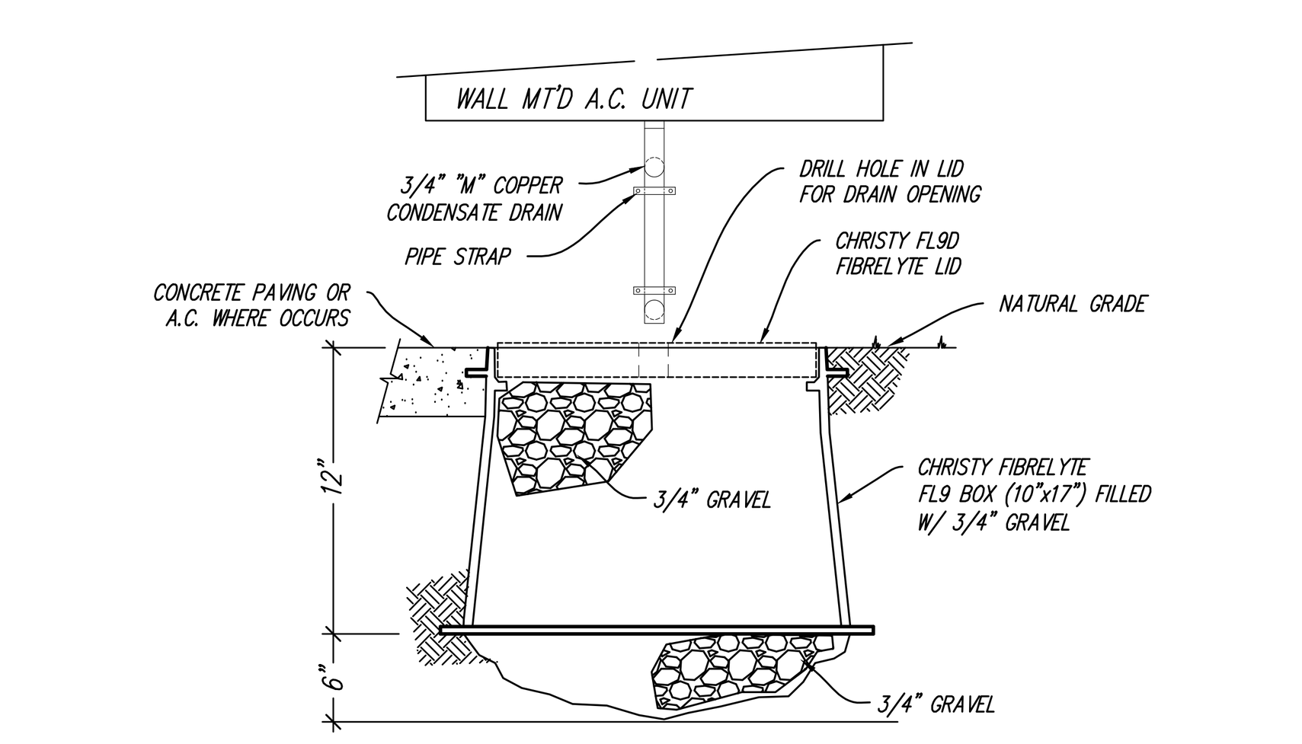
–ETCHED POLYPROPYLENE FACE
–FACE ANCHORED IN CONCRETE
–ULTRA-VIOLET INHIBITOR
–EXCEEDS ASTM–D1693 STANDARDS FOR ENVIRONMENTAL STRESS CRACKING RESISTANCE



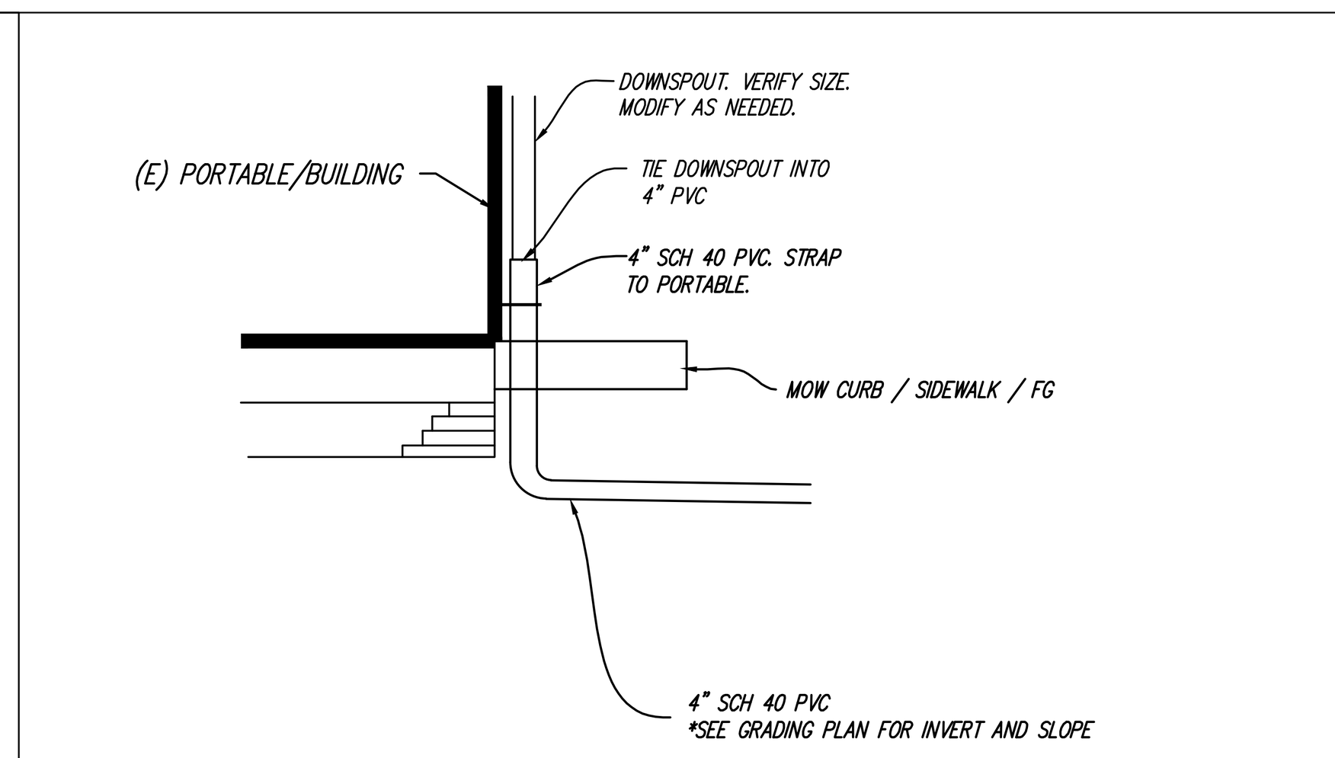
A REINFORCED CONCRETE DUAL PURPOSE BOX DESIGNED FOR EITHER LIGHT PURPOSE DRAINAGE INSTALLATIONS OR ENCLOSING SEWER CLEANOUTS IN FOOT TRAFFIC AREAS. TAPERED SHOULDERS PREVENT SETTLING. NOTCH ACCOMMODATES UP TO APPROXIMATELY 4" O.D. PIPE OR DRAIN TILE. APPROXIMATE DIMENSIONS AND WEIGHT SHOWN.

ORDERING CODE	ITEM	APPROX. SHIPPING WEIGHT	DESCRIPTION
F08BOX	BOX	34	V01 DRAIN BOX (8" I.D. X 12")– 48 PER PALLET
V01–71C	GRATE	12	CAST IRON

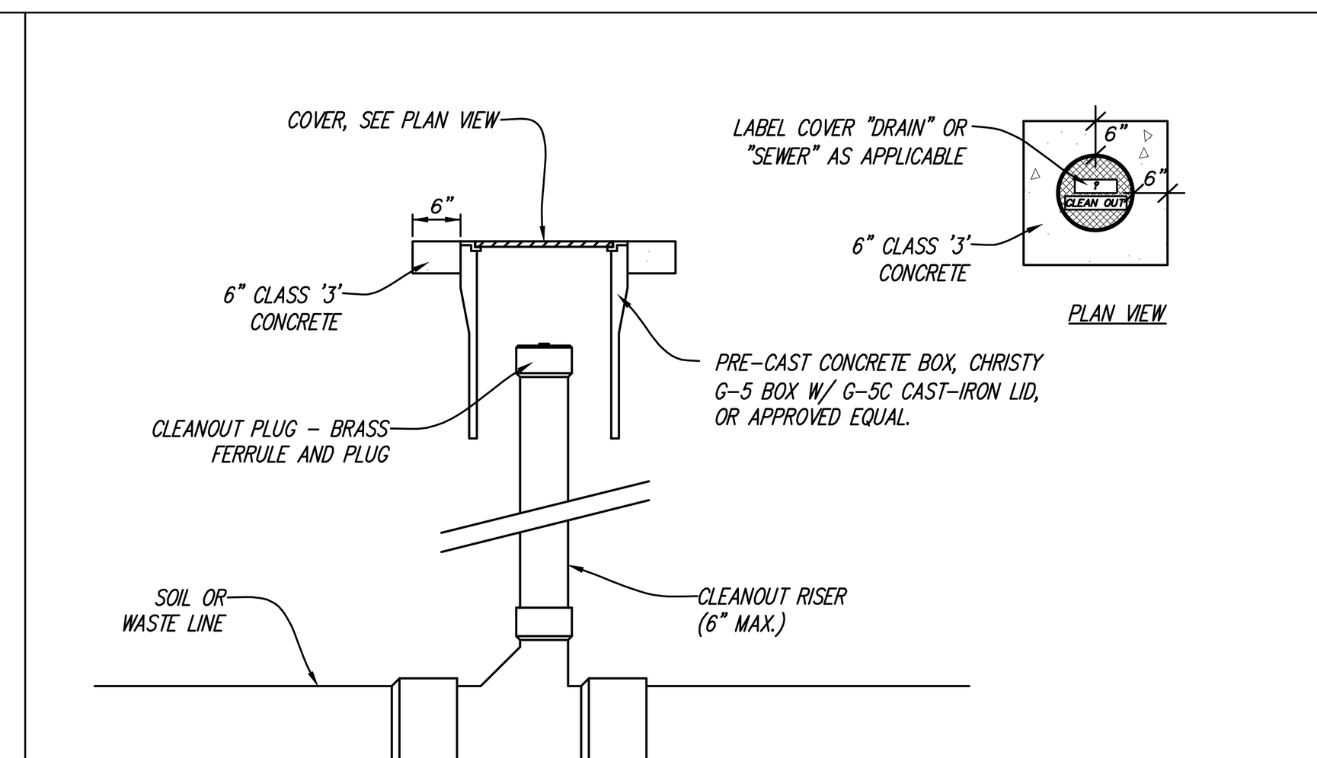
1/C1 VO1 BOX WITH PIPE CONNECTION AT BOTTOM



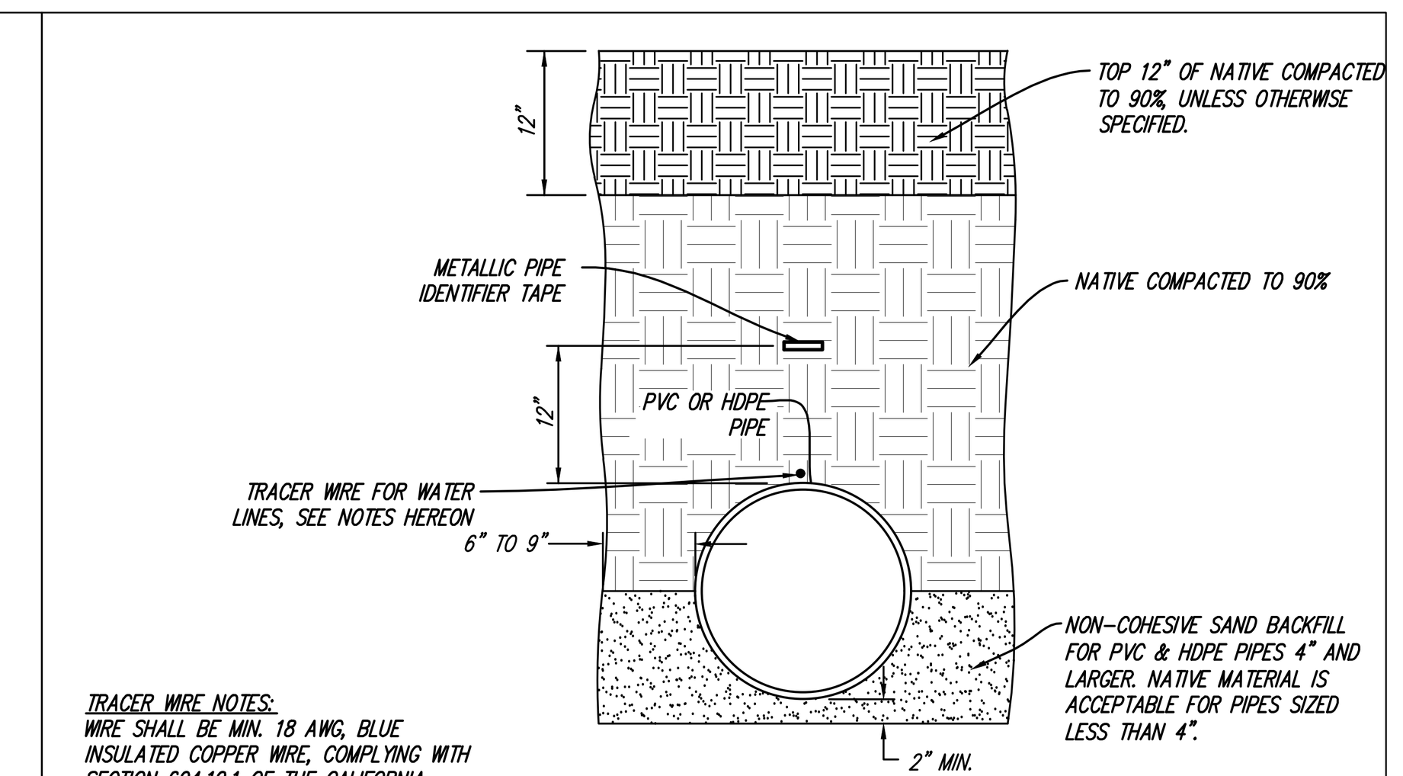
2/C1 CONDENSATE DRAIN



3/C1 DOWNSPOUT CONNECTION



4/C1 CLEANOUT TO GRADE



TRACER WIRE NOTES:
WIRE SHALL BE MIN. 18 AWG, BLUE INSULATED COPPER WIRE, COMPLYING WITH SECTION 604.10.1 OF THE CALIFORNIA PLUMBING CODE, LATEST EDITION.

5/C1 PVC/HDPE TRENCH DETAIL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124658 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2025

General Shafter School District
EXCELLENCE IN EDUCATION SINCE 1904

PTN : 63487-7 FILE: 15-70

2-24x40 RELOCATABLE CLASSROOMS AT
GENERAL SHAFTER ELEMENTARY SCHOOL
1825 SHAFTER ROAD, BAKERSFIELD, CA 93313
FOR
GENERAL SHAFTER SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

SC ARCHITECT inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 REN 11/30/25 STATE OF CALIFORNIA
STEPHEN J. CORBIN, AIA, NCARB, LEED®-AP BD+C

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

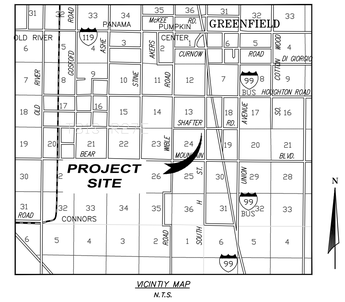
GRADING PLAN

MARK	DATE	REVISIONS
1		
2		
3		

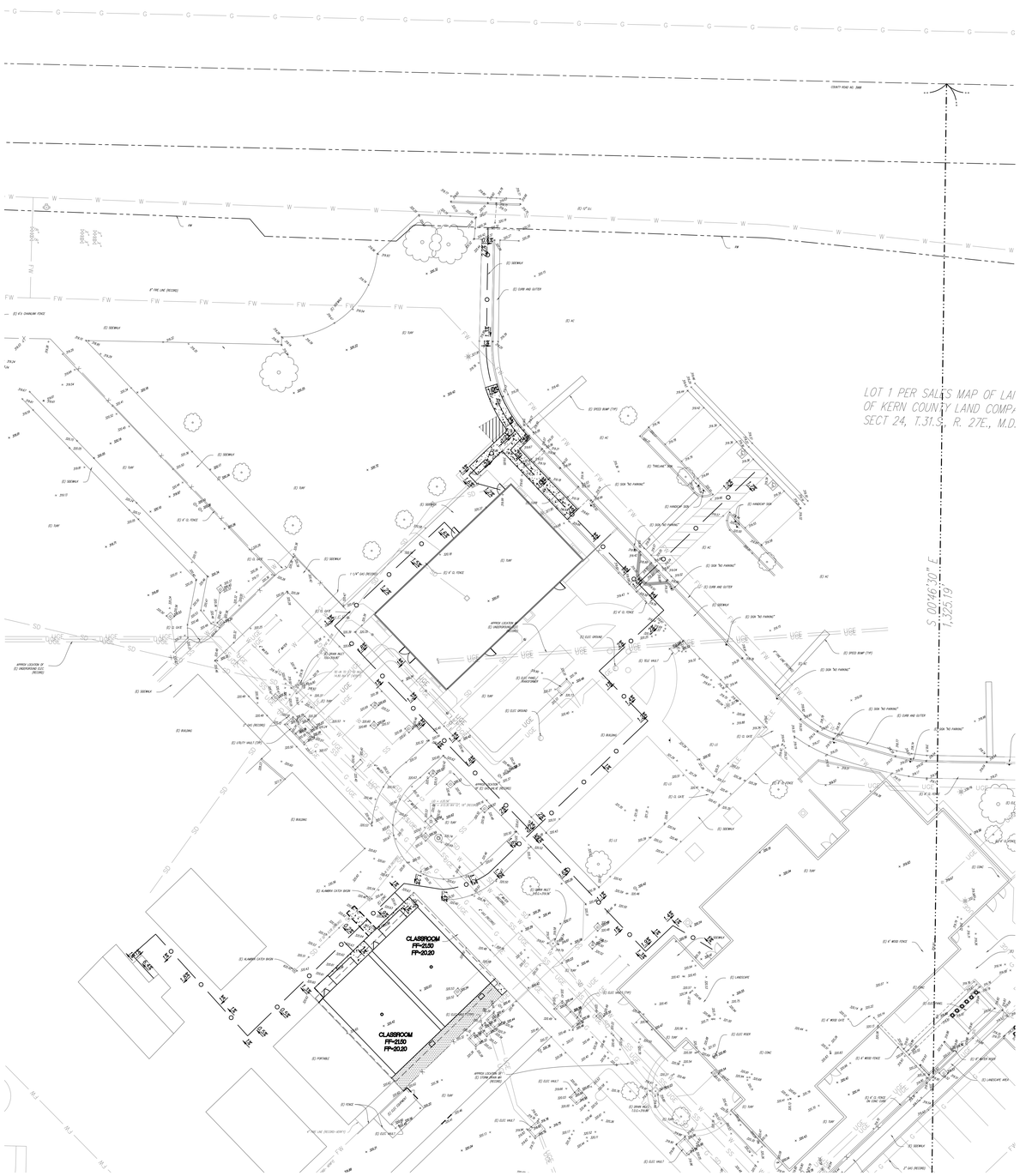
JOB NO. 1389
DRAWN : N/A
CHECKED : -
DATE : 7/10/2024

C

C1
1 OF 3 SHEETS



VICINITY MAP
N.T.S.



N

SCALE: 1" = 20'
20 10 0 20 40

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2-24x40 RELOCATABLE CLASSROOMS AT GENERAL SHAFTER ELEMENTARY SCHOOL

1825 SHAFTER ROAD, BAKERSFIELD, CA 93313

FOR

GENERAL SHAFTER SCHOOL DISTRICT

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LICENSED ARCHITECT STEPHEN J. CORBIN No. 31088 STATE OF CALIFORNIA

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PATH OF TRAVEL

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER ROBERT T. SWANSON No. 43032 EXP. 3-31-26 STATE OF CALIFORNIA

SWANSON ENGINEERING, INC.
2000 Oak Street, Suite 150 – Bakersfield, CA 93301
p:(661) 631-4910; f:(661) 873-4777

JOB# 24-037 BTC

JOB NO.	1389
DRAWN :	N/A
CHECKED :	-
DATE :	7/10/2024

C

C2
2 OF 3 SHEETS

FIRE WATER PLANS - 2 RELOCATEABLE CLASSROOMS

GENERAL SHAFTER ELEMENTARY SCHOOL
1825 SHAFTER ROAD
BAKERSFIELD, CALIFORNIA 93313

FIRE WATER NOTES:

1. ALL FIRE WATER LINE INSTALLATIONS SHALL COMPLY WITH KERN COUNTY FIRE DEPARTMENT STANDARDS.
2. FIRE HYDRANTS SHALL BE APPROVED BY THE KERN COUNTY FIRE DEPARTMENT.
3. N/A
4. HYDRANT NOZZLE SHALL BE 4".
5. ALL BACKFLOW DEVICES SHALL BE APPROVED BY THE KERN COUNTY HEALTH DEPARTMENT.
6. N/A
7. MINIMUM COVER OVER FIRE LINES SHALL BE 36".
8. ALL PIPE AND FITTINGS SHALL BE U.L. LISTED AND CONFORM TO N.F.P.A. #3 AND #24.
9. ALL UNDERGROUND ON-SITE FIRE LINE PIPING SHALL BE C900 CL 150 PVC, UNLESS NOTED OTHERWISE.
10. THRUST BLOCKS SHALL BE INSTALLED IN CONFORMANCE WITH N.F.P.A. #24, 7/FP1.
11. UNDERGROUND PIPING SHALL BE FLUSHED PER N.F.P.A. #24 BEFORE CONNECTING TO OVERHEAD FIRE SPRINKLER SYSTEM.
12. UNDERGROUND PIPING SERVING FIRE SPRINKLER SYSTEMS SHALL BE TESTED AT 200 PSI FOR 2 HOURS MINIMUM.

BENCHMARK
TOP K.C.S. CONCRETE MONUMENT AT CENTERLINE INTERSECTION OF SOUTH H STREET AND SHAFTER ROAD.

ELEVATION = 320.65'
ADD 300.00' TO ALL DESIGN ELEVATIONS

BASIS OF BEARINGS
THE NORTH LINE OF THE NE 1/4 OF SECTION 24, T.31S., R.27E. M.D.M. PER KCS FILED MAP, BK. 6 PG. 127 O.R. ALSO BEING THE THE CENTERLINE OF SHAFTER ROAD HAVING A BEARING OF S88°45'38"E WAS TAKEN AS THE BASIS OF BEARINGS SHOWN HEREON.

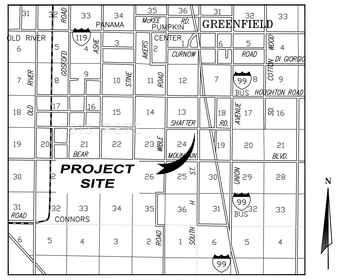
LEGAL DESCRIPTION
LOTS 1 AND 8 OF SECTION 24, T.31S., R.27E., M.D.M., ACCORDING TO THE "SALES MAP OF LANDS OF THE KERN COUNTY LAND COMPANY" FILED AUGUST 27, 1892 IN THE OFFICE OF THE KERN COUNTY RECORDER.

ADDRESS
1825 SHAFTER RD., BAKERSFIELD, CA

APN
184-392-51,53

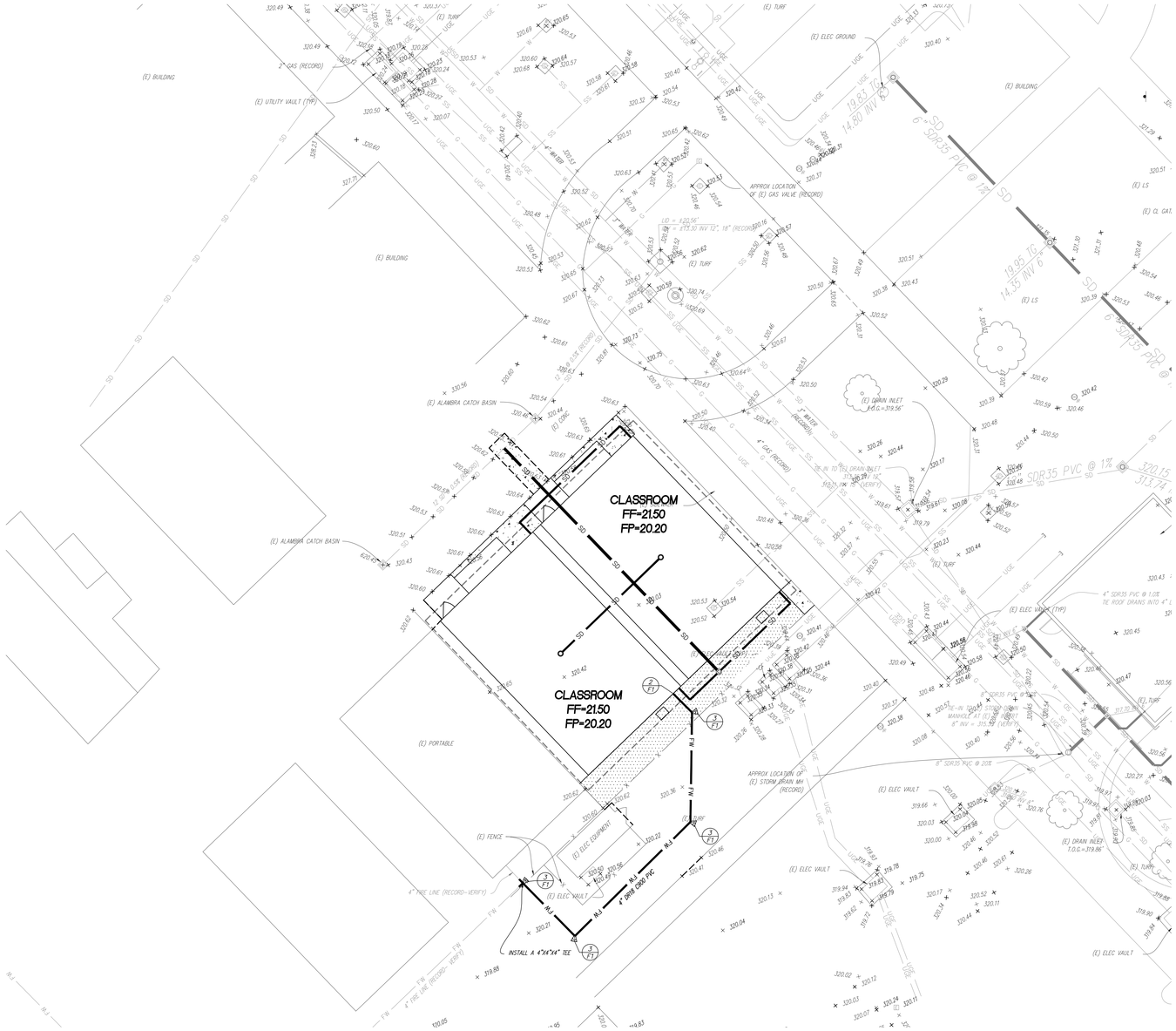
UTILITY NOTE
NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES.

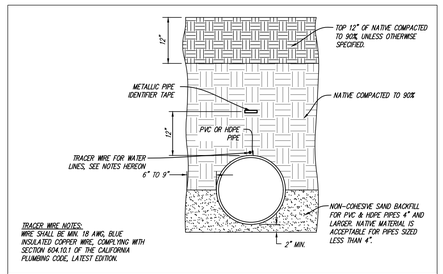
TRENCHING NOTE
FOR ON-SITE TRENCHING SEE DETAIL 1, SHEET F1 UNLESS OTHERWISE SPECIFIED OTHERWISE



VICINITY MAP
N.T.S.

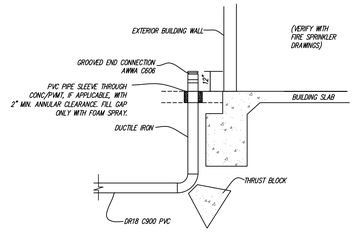
N.T.S.



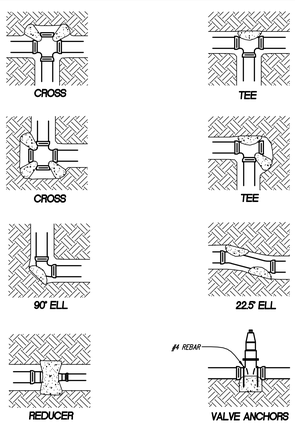


TRACER WIRE NOTES:
WIRE SHALL BE MIN. 18 AWG, BLUE INSULATED COPPER WIRE, COMPLYING WITH SECTION 604.10.1 OF THE CALIFORNIA PLUMBING CODE, LATEST EDITION.

1 / F1 PVC/HDPE TRENCH DETAIL



2 / F1 FIRE SPRINKLER RISER - EXTERIOR



THRUST BLOCK SCHEDULE

PIPE SIZE	BEARING AREA IN SQ. FT. TEE OR PLUG	90° ELL OR HYDRANT	45° ELL	22-1/2° ELL
6"	2.8	4.0	2.2	1.1
8"	5.0	7.1	3.8	2.0
10"	7.9	11.1	6.0	3.1
12"	11.3	16.0	8.7	4.4

NOTES:
1. ALL THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL. CONCRETE SHALL BE PLACED BEHIND BELL OF FITTING.
2. BEARING AREAS SHOWN IN TABLE ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1500 psf.
3. KEEP CONCRETE AWAY FROM BELLS.

3 / F1 TYPICAL THRUST BLOCK DETAIL

LEGEND:

ABBREVIATIONS:

(E)	EXISTING
TYP.	TYPICAL
FD.	FOUND
BK.	BOOK
PG.	PAGE
C.O.K.	COUNTY OF KERN
C.O.B.	CITY OF BAKERSFIELD
O.R.	OFFICIAL RECORDS
CONC.	CONCRETE
A.C.	ASPHALT PAVEMENT
FG.	FINISH GRADE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
FF	FINISHED FLOOR
FP	FINISHED PAD
TP	TOP OF PAVEMENT
GB	GRADE BREAK
CL	CENTERLINE

- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING HOSE BIB
- EXISTING POWER POLE
- EXISTING STREET LIGHT
- FOUND MONUMENT
- EXISTING TRAFFIC SIGN
- EXISTING SEWER MANHOLE
- EXISTING STORM DRAIN MANHOLE
- EXISTING SEWER CLEANOUT
- EXISTING IRRIGATION VALVE
- EXISTING TELEPHONE PULL BOX
- EXISTING GAS METER
- EXISTING ELECTRICAL PULL BOX
- EXISTING LIGHT POLE
- 100.00 / 100.00 — DESIGN ELEVATION
- 1 / F2 — DETAIL CALLOUT
- CLEAN-OUT TO GRADE
- SD — EXISTING STORM DRAIN LINE
- FO — EXISTING FIBER OPTIC LINE
- W — EXISTING WATER LINE
- SS — EXISTING SEWER LINE
- G — EXISTING GAS LINE
- X — EXISTING FENCELINE
- UGE — EXISTING ELECTRIC LINE
- OHE — EXISTING OVERHEAD ELECTRIC LINE
- EXISTING PROPERTY LINE
- EXISTING SECTION LINE
- EXISTING RIGHT-OF-WAY
- EXISTING CURB & GUTTER
- 100.00 — EXISTING GROUND CONTOUR LINE & ELEVATION
- SAWCUT
- LIMITS OF GRADING
- SD — STORM DRAIN LINE - SDR35 PVC
- FW — FIRE WATER LINE - DR18 C900 PVC
- 6" OF 3/4" AGG BASE / LANDSCAPE FABRIC / 12" NATIVE COMPACTED TO 90%
- 4" CONCRETE / 12" NATIVE COMPACTED TO 90%

IDENTIFICATION STAMP
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DATE: 01/08/2025

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2-24x40 RELOCATABLE CLASSROOMS AT
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FOR
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LICENSED ARCHITECT STEPHEN J. CORBIN No. 31078 RENEWAL 08/31/2025 STATE OF CALIFORNIA

STEPHEN J. CORBIN, AIA, NCARB, LEED®-AP BD+C

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

FIRE WATER PLAN

MARK	DATE	REVISIONS
1		
2		
3		

REGISTERED PROFESSIONAL ENGINEER JEREMY T. SWANSON No. 43032 EXP. 9-31-26 STATE OF CALIFORNIA

SWANSON ENGINEERING, INC.
2000 Oak Street, Suite 150 ~ Bakersfield, CA 93301
p:(661) 831-4919; f:(661) 873-4777

JOB# 24-037 BTC

JOB NO.	1389
DRAWN :	N/A
CHECKED :	-
DATE :	7/10/2024

C

F1
1 OF 1 SHEETS

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION	
School District/Owner:	Genral Shafter School District
Project Name/School:	General Shafter Elementary School
Project Address:	1825 Shafter Road. Bakersfield, CA. 93313

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

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

School District Acceptance of Acceptable Design Alternates

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

Accepted by: Chris Salyard Title: Chief Admin. Officer

Signature: _____ Date: 008/08/2024

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	Kern County Fire Department	
LFA Review Official:	Janet Huffaker	
Title: Fire Plan Examiner		Work Phone: 661 393-9311
Work Email:	Jhuffaker@kerncountyfire.org	

LFA Reviewer's Signature: _____ Date: _____

Hydrant Flow Test Report

Test Date 8/17/2024 **Test Time** 1:15 PM

Location
General Shafter Elementary School
1825 Shafter Rd
Bakersfield, CA 93313

Tested by
Another In The Fire, Inc.
16022 San Marco Pl
Bakersfield, Ca. 93314
C-16 License #1078553
NICET Cert. #1149354
David Holt & Jerry Esposito

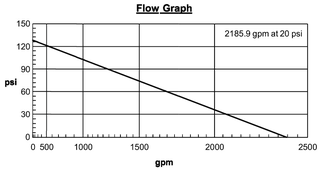
Notes
Hydrant A Pressure Readings
Hydrant B Flow Hydrant

Read Hydrant
129 psi **static pressure**
21 psi **residual pressure**
1.5 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1		4.5	.9	16	2175 gpm

Flow Graph



Created with the free hydrant flow test program from www.igneusinc.com

PER T-8105.1 (1) 2022 CFC 2000 GALS/ MIN IS OK FOR 6,200 S.F. ≥ 5664 S.F. OK

CAMPUS DIRECTORY

BLDG ID#	BUILDING DESCRIPTION	DSA A#	CERTIFICATION STATUS/ DATE, LETTER TYPE
(E) BUILDING	(E) MULTI-PURPOSE	03-118099	YES/ 01-14-2021, #1
(E) BUILDING A-1	(E) ADMINISTRATION	03-118099	YES/ 01-14-2021, #1
(E) UNIT 1	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 2	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 3	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 4	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 5	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 6	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 7	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 8	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 9	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 10	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 11	(E) CLASSROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 12	(E) KINDERGARTEN CLASROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 13	(E) KINDERGARTEN CLASROOM	03-108770	YES/ 11-09-2016, #2
(E) UNIT 14	(E) TOILETS	03-108770	YES/ 11-09-2016, #2
(E) UNIT 15	(E) CLASSROOM	03-112141	NO
(E) BLDG C	(E) SHADE STRUCTURE	03-110271	YES/ 03-12-2019, #5
(E) BLDG D	(E) TOILETS	03-106304	YES/ 04-12-2012, #1
UNIT 16	CLASSROOM	-	THIS APPLICATION
UNIT 17	CLASSROOM	-	THIS APPLICATION

PARKING ANALYSIS

(E) PARKING LOT 1

PER DSA A#03-117922

REGULAR STALLS	30
ACCESSIBLE STALLS	1
ACCESSIBLE VAN STALL	1
TOTAL	32

(E) PARKING LOT 2

PER DSA A#03-117922

REGULAR STALLS	23
ACCESSIBLE STALLS	1
ACCESSIBLE VAN STALL	1
TOTAL	25

BUILDING CODE ANALYSIS

GROUP	BUILDING I.D.	MECH'L SYS	BLDG OCCUPANCY	TYPE OF CONST	BASIC ALLOWABLE HT STRY/FT	ACTUAL HT STRY/FT	BASIC ALLOWABLE AREA	ACTUAL AREA	
A	UNIT 17	ELECTRIC HEAT PUMP	E	V-B	1 STY/ 40'	1 STY 14'-8"	9,500 S.F.	960 S.F.	
	UNIT 16							960 S.F.	
	UNIT 11							EXISTING 960 S.F.	} 3,850 S.F. ≤
	UNIT 10							EXISTING 960 S.F.	} 9,500 S.F.
	UNIT 9							EXISTING 960 S.F.	
	BLDG D							EXISTING 850 S.F.	

EXIT ANALYSIS

GROUP	BUILDING I.D.	REQ'D EGRESS WIDTH OCC X .02	PROVIDED EGRESS WIDTH	REQ'D NO. OF EXITS	NO. EXITS PROVIDED
A	UNIT 9	48 X 0.2 = 9.6	36"	1	1
	UNIT 11	48 X 0.2 = 9.6	36"	1	1
	UNIT 12	48 X 0.2 = 9.6	36"	1	1
	UNIT 16	48 X 0.2 = 9.6	36"	1	1
	UNIT 17	48 X 0.2 = 9.6	36"	1	1

OCCUPANT LOAD

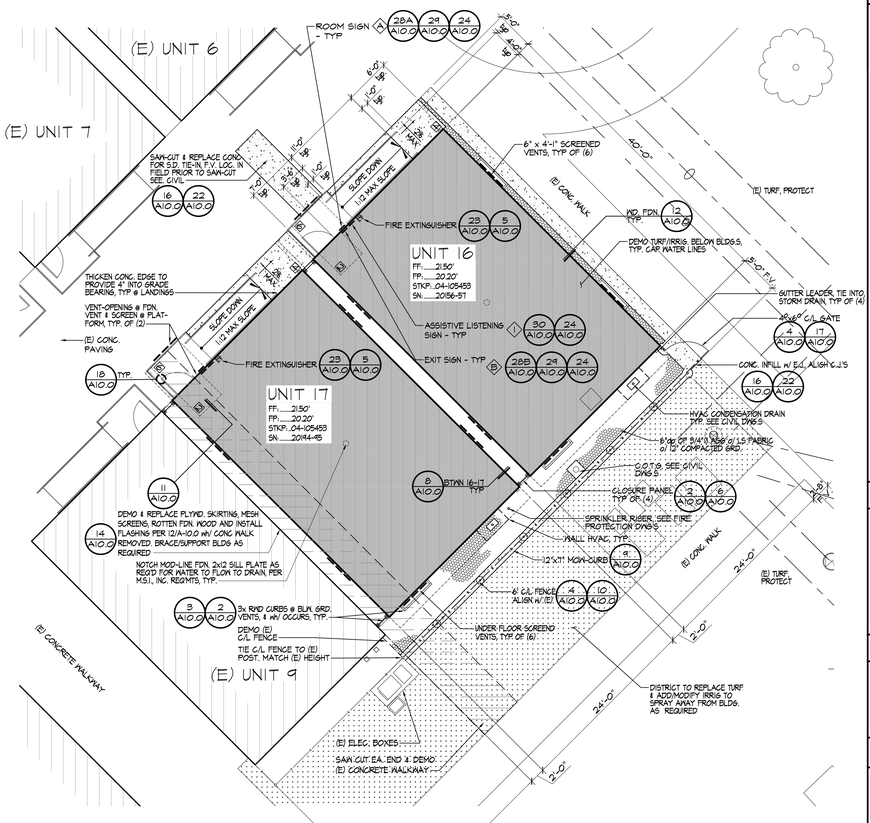
GROUP	BUILDING I.D.	FLOOR AREA	TOTAL	OCCUPANT LOAD FACTOR	OCCUPANTS	TOTAL
A	UNIT 9	960	} 4,800	1:20 NET	48	} 240
	UNIT 11	960		1:20 NET	48	
	UNIT 12	960		1:20 NET	48	
	UNIT 16	960		1:20 NET	48	
	UNIT 17	960		1:20 NET	48	

SITE PLAN LEGEND

- NO WORK SCHEDULE FOR THIS BUILDING
- (E) ACCESSIBLE RESTROOM
- AREA OF SCHEDULED WORK PER THIS APPLICATION
- DEMO (E) CONC WALKWAY
- SAFE DISPERSAL AREA (A)
- FIRE DEPARTMENT ACCESS 20' MIN PER A# 03-118099
- (E) CHAIN LINK FENCE
- CHAIN LINK FENCE (12 A10.0)
- PATH OF TRAVEL
- ASSUMED PROPERTY LINE
- EXIT DISCHARGE

SITE PLAN GENERAL NOTES

1. SEE ELECTRICAL & CIVIL AND SITE PLANS FOR ADDITIONAL SITE RELATED WORK. CONTRACTOR SHALL COORDINATE ALL WORK AS REQ'D TO ENSURE A COMPLETE & FINISHED PROJECT.
2. CONTRACTOR TO TAKE ALL NECESSARY & REQUIRED MEASURES TO PROTECT (E) IRRIGATION & TURF AREAS WITHIN THE JOB SITE, & SHALL BE RESPONSIBLE TO REPLACE ANY BROKEN IRRIGATION PART. RESEED TURF AS REQUIRED.
3. CONTRACTOR TO FV ALL (E) UTILITY BOXES, (E) VALVES, ETC. IN AREA OF WORK. DEMO, RELOCATE &/OR MODIFY AS REQ'D TO COMPLETE THE WORK. NOTIFY ARCHITECT OF ANY DISCREPANCY BETWEEN (E) CONDITIONS AND PLANS.
4. CONTRACTOR SHALL PATCH & MATCH ANY ADJACENT SURFACES DAMAGED AS A RESULT OF PERFORMING THE WORK REQUIRED.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ARCHITECT, AND THE ENGINEER HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, OR THE ENGINEER.
6. THE CONTRACTOR SHALL WATER AS REQUIRED DURING THE GRADING OPERATIONS TO PREVENT THE OCCURRENCE OF A DUST NUISANCE AND SHALL PROTECT CURBS AND OTHER OBJECTS WHICH ARE TO REMAIN. DUST CONTROL SHALL CONFORM TO THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT REGULATIONS.
7. SCARCHITECT SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED, IN WRITING, BY SCARCHITECT.
8. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL POTHOLE ALL UTILITIES THAT WILL BE AFFECTED BY THIS CONTRACT TO DETERMINE IF ANY UTILITY CONFLICTS EXIST. ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT DESIGN CHANGES CAN BE MADE PRIOR TO THE START OF CONSTRUCTION.
9. CONTRACTOR TO VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS IN THE FIELD BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES THAT WILL AFFECT TIE-INS TO EXISTING IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
10. SAW CUT CONC. & AC, TRENCH & PROVIDE U.G. UTILITIES PER CIVIL. F.A. ELEC. & FIRE PROTECTION DWGS. ALL TRENCH PATCHING SHALL BE FLUSH W/ ADJ. AC, CONC OR GRADE. ALL ELEC. CONDUITS SHALL BE 3' MIN BELOW SURFACE, SET ON 6" SAND-FILL W/ 6" SAND COVER, THEN BACKFILLED & COMPACTED TO 90% O.M.C., SEE SPECIFICATIONS.
11. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET.
12. ALL DEMOLITION & CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF CH-33 OF THE 2022 CBC & THE PROVISIONS OF CFC "FIRE SAFETY".
13. THESE CLASSROOMS HAVE FIRE SPRINKLERS & ARE CONNECTED TO THE FIRE ALARM SYSTEM W/ AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM.
14. PROVIDE 2 PORTABLE ASSISTING LISTENING SYSTEMS @ EA. SCHOOL, EACH WITH A MINIMUM OF 2 RECEIVERS. INSTALL SIGN IN CLASSROOM. "ASSISTED LISTENING SYSTEMS IS AVAILABLE", SYSTEM SHALL BE CENTRUM SOUND 'CS KT ST'.



PATH OF TRAVEL

PATH OF TRAVEL (POT) AS INDICATED IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL POT IS A MINIMUM OF 48" WIDE. THE SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. PASSING SPACES (11B-403.5.3) AT LEAST 60"X60" SHALL BE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS SHALL HAVE 60" LEVEL AREAS AT INTERVALS OF 400' MAXIMUM (11B-403.7) SLOPE SHALL NOT EXCEED 2% CROSS-SLOPE AND 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL (11B-401.1) SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (11B-405). THERE SHALL BE NO DROP-OFF OVER 4" ALONG THE EDGE OF WALK OR LANDING. POT SHALL BE MAINTAINED FREE OF OVER-HANGING OBSTRUCTIONS AND OBJECTS PROTRUDING GREATER THAN 4" FROM A WALL, BETWEEN 27" TO 80" ABOVE FINISHED GRADE. ARCHITECT SHALL VERIFY THAT NO BARRIERS EXIST IN THE 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 PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT I) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCORPORATED INTO THE DETAILS, DWG.S AND SPECIFICATIONS IN THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE MADE RIGHT BY THIS PROJECT BASED ON A VALUATION THRESHOLD LIMITATIONS OR AN UNREASONABLE HARDSHIP FINDING ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF NONCONFORMING P.O.T. ITEMS WITHIN THE SCOPE OF THIS CODE COMPLIANT PROJECT ARE FOUND TO BE 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.

RADIO COVERAGE

NEW BLDG'S SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT SHALL CONTACT THE LOCAL FIRE DEPT.AND/OR EMERGENCY COMMUNICATION AUTHORITY TO OBTAIN DESIGN, EQUIP. SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

VENT CALCS.

23'-10" x 40'-0" = 953.3/150 = 6.36 S.F./6
= 1.06 S.F. /0.528 = (6) 2.01 S.F. VENTS
6" x 4'-1" = 2.04 S.F. ; 2.01 S.F.
USE MONGOLIA "SQUARE WIRE MESH" S.S. ½" SQ. OPENING W/ 0.041" WIRE OR APPROVED EQUAL.
USE 6" x 4'-1" VENTS

SAFE DISPERSAL AREA

PER CBC 2022 SECTION 452.1.3 & 1004.6.3
5 x 48 OCC = 240 TOTAL OCCUPANTS
240 - 2 = 238 x 3# = 714# + 20 = 734# AREA REQ'D
MAX OCC/200 = MIN WHEELCHAIR SPACE
2/200 = 1.2 : 2 WHEELCHAIR SPACES REQ'D (A)
32'x23' 736# TOTAL SAFE DISPERSAL AREA WITH A MIN (2) WHEELCHAIR SPACES PROVIDED

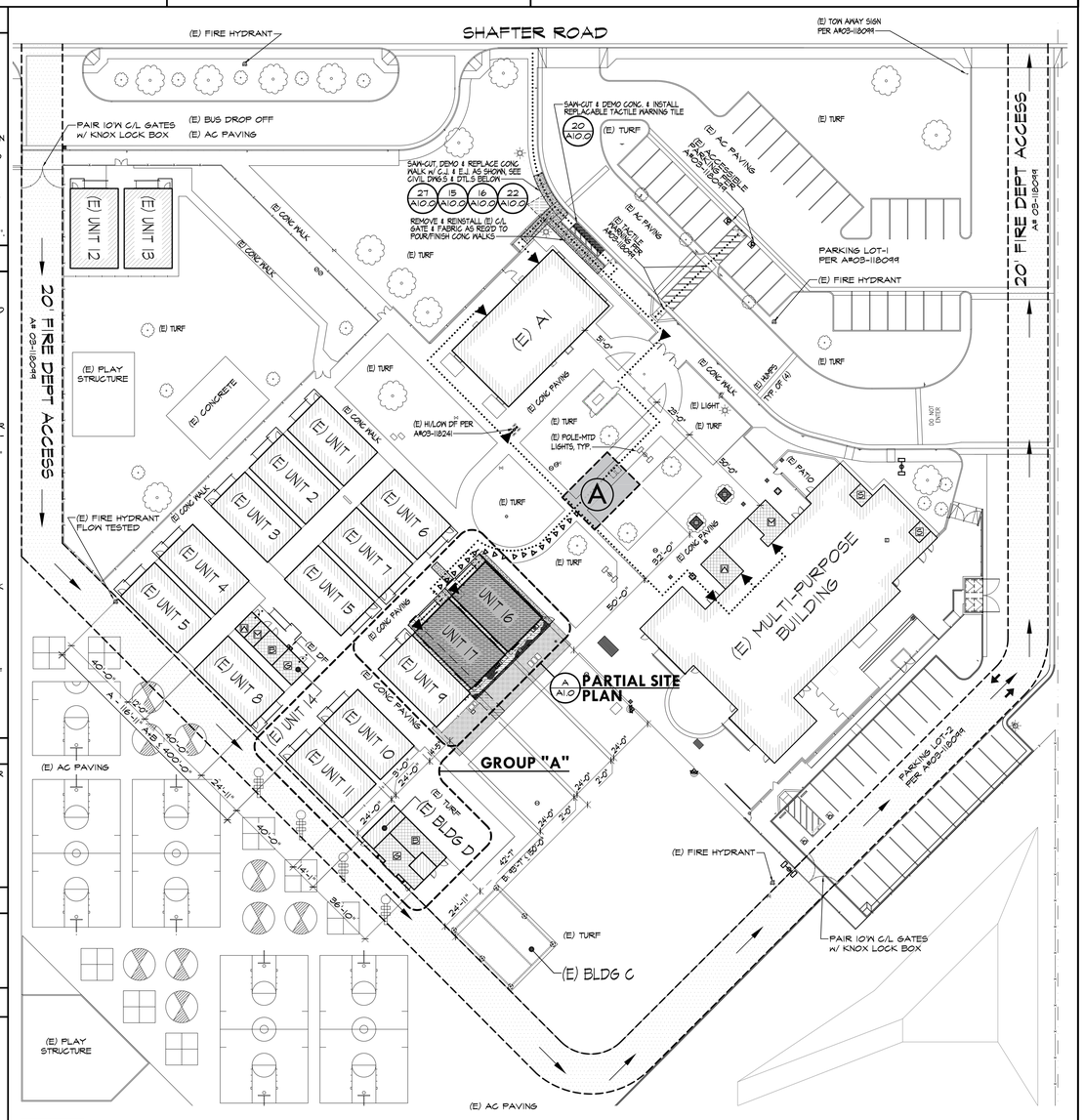
ADA REQ'D MIN CLEARENCES

1	30" X 48"	4	48" X 60"	7	60" X 72"
2	48" X 48"	5	54" X 60"	8	60" DIA
3	48" X 54"	6	60" X 60"		

PLAN NORTH

PARTIAL SITE PLAN (A) OF GROUP-'A'

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



PLAN NORTH

OVERALL SITE PLAN (B)

SCALE : 1" = 30'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124658 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2025

PTN : 63487-7 FILE: 15-70

2-24x40 RELOCATABLE CLASSROOMS AT
GENERAL SHAFTER ELEMENTARY SCHOOL
1825 SHAFTER ROAD, BAKERSFIELD, CA 93313
FOR
GENERAL SHAFTER SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. CORBIN, AIA, NCARB, LEED[®]-AP BD+C

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

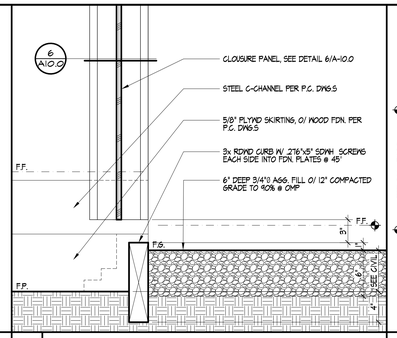
PARTIAL SITE PLAN-'A,' OVERALL SITE PLAN-'B'

MARK	DATE	REVISIONS
1		
2		
3		

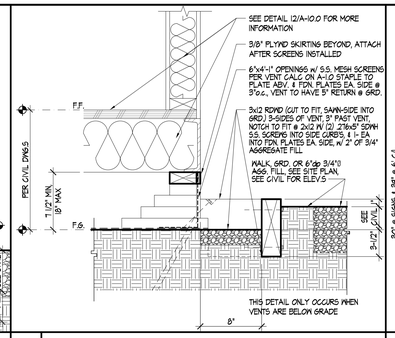
JOB NO. 1389
DRAWN : SH
CHECKED : MMS
DATE : 8/2/24

1.0 - OF -- SHEETS

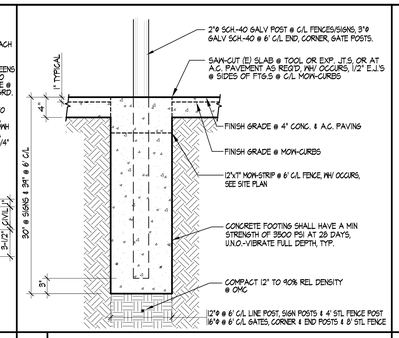
1 NOT USED SCALE:



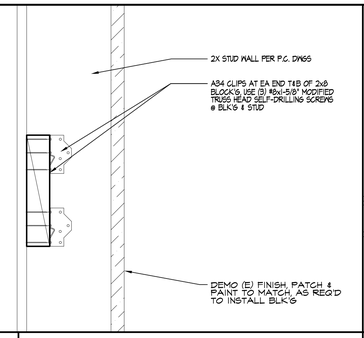
2 CURB BTWN BLDG.S SCALE:



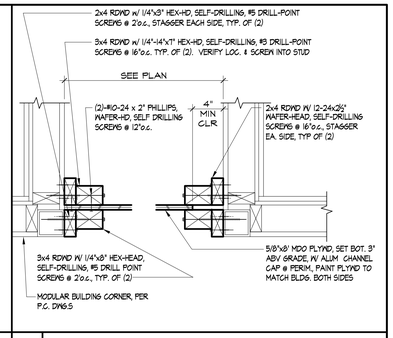
3 VENT BELOW GRADE SCALE: 1½" = 1'-0"



4 POST FOOTING DETAIL SCALE: 1" = 1'-0"

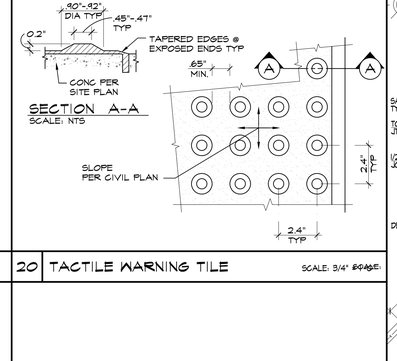


5 F.E. BACK'G DTL SCALE: 3" = 1'-0"

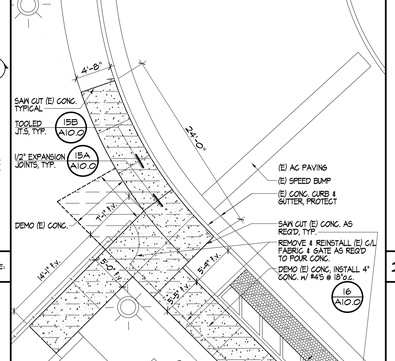


6 CLOSURE PANEL SCALE: 1-1/2" = 1'-0"

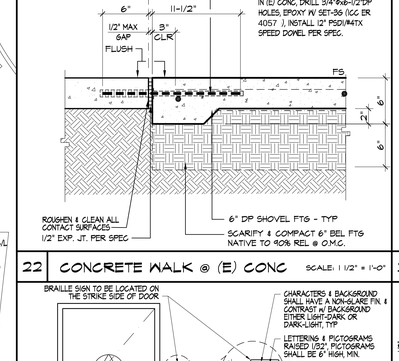
7 NOT USED SCALE:



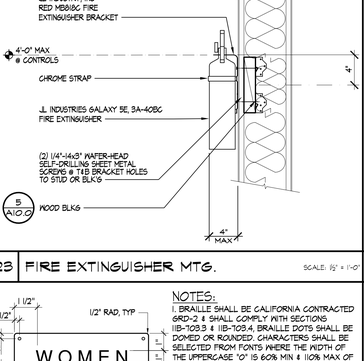
8 RELOCATABLE TO WD FDN. SCALE: 1½" = 1'-0"



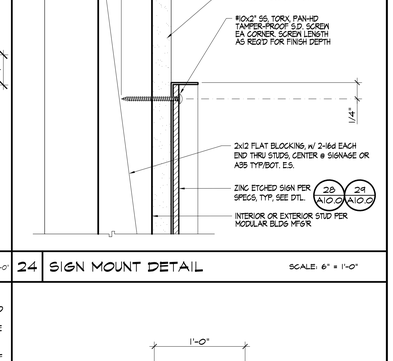
9 CONCRETE CURB SCALE: 1½" = 1'-0"



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

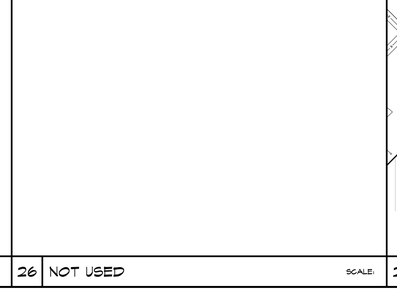


11 CLEARANCE DTL SCALE: ½" = 1'-0"

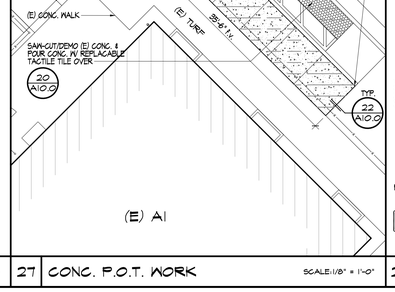


12 RELOCATABLE TO WD FDN. SCALE: 1½" = 1'-0"

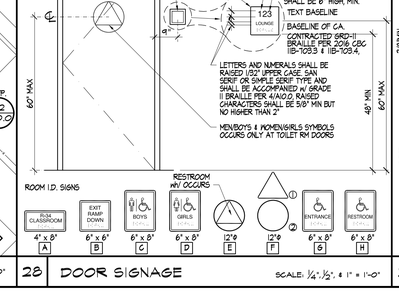
13 NOT USED SCALE:



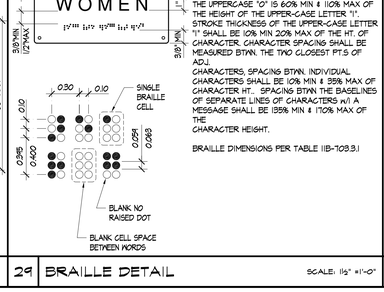
14 RELOCATABLE BTWN. BLDG.S SCALE: 1½" = 1'-0"



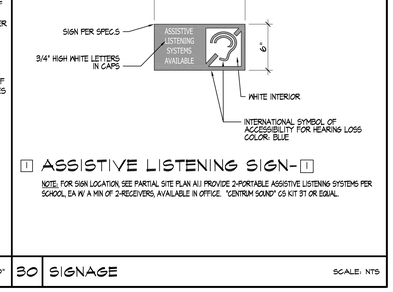
15 CONCRETE JOINT DETAIL SCALE: 1 1/2" = 1'-0"



16 CONC WALK SCALE: 1" = 1'-0"



17 CHAIN LINK GATE SCALE: 1/2"= 1'-0"



18 DOOR/GATE LEVER HDWR SCALE: 3" = 1'-0"

19 NOT USED SCALE:

20 TACTILE WARNING TILE SCALE: 3/4" EQUAL

NOTES:
TRUNCATED DOMES SHALL BE MANUFACTURED BY:
ACCESS PRODUCTS INC., (916) 361-6545
INSTALLATION: 5'dp REPLACEABLE CAST IN PLACE TILE, PER MANUFACTURERS INSTRUCTIONS, SEE SPECIFICATIONS.

21 NOT USED SCALE:

27 CONC. P.O.T. WORK SCALE:1/8" = 1'-0"

22 CONCRETE WALK @ (E) CONC SCALE: 1 1/2" = 1'-0"

23 FIRE EXTINGUISHER MTG. SCALE: ½" = 1'-0"

24 SIGN MOUNT DETAIL SCALE: 6" = 1'-0"

25 NOT USED SCALE:

26 NOT USED SCALE:

28 DOOR SIGNAGE SCALE: ¼", ½", & 1" = 1'-0"

29 BRAILLE DETAIL SCALE: 1½" =1'-0"

30 SIGNAGE SCALE: NTS

I ASSISTIVE LISTENING SIGN- I

NOTE: FOR SIGN LOCATION, SEE PARTIAL SITE PLAN A1/ PROVIDE 2-PORTABLE ASSISTIVE LISTENING SYSTEMS PER SCHOOL, EA W/ A MIN OF 2-RECEIVERS, AVAILABLE IN OFFICE. "CENTRUM SOUND" CS KIT 31 OR EQUAL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124658 INC:
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DATE: 01/08/2025

PTN: 63487-7 FILE: 15-70

2-24x40 RELOCATABLE CLASSROOMS AT
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FOR
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CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DETAILS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1389
DRAWN: SH
CHECKED: AGV
DATE: 6/10/24

10.0
- OF -- SHEETS

GENERAL ELECTRICAL NOTES

1. PROVIDE MINIMUM 36" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W (PER CEC-110.26).
2. PROVIDE MINIMUM 42" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 480/277V 3Ø 4W (PER CEC-110.26).
3. PROVIDE MINIMUM 30" WIDE WORK SPACE FOR PANELS, SERVICE OR EQUIPMENT (PER CEC-110.26).
4. SPECIFY THAT ONLY LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN THE LISTING AND LABELING (PER CEC-110.3(B)).
5. SWITCHES SHALL BE MOUNTED A MAXIMUM OF 48" TO THE TOP OF BOX. RECEPTACLES SHALL BE MOUNTED A MINIMUM OF 15" TO THE BOTTOM OF BOX PER CBC 2022 SECTION 11B-308.
6. HVAC CIRCUIT BREAKERS SHALL BE RATED HACR.
7. ALL SERVICE EQUIPMENT TO BE SUITABLE FOR AVAILABLE SHORT CIRCUIT CURRENT PER CEC ART 110.9.
8. PERMANENTLY DELINEATE ON THE FLOOR WORKING CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT WITH THE WORDING "NO STORAGE IN THIS AREA". APPLIES TO ELECTRICAL ROOMS AND CLOSETS ONLY.
9. PRIOR TO ORDERING THE SWITCHGEAR, THE ELECTRICAL CONTRACTOR SHALL COORDINATE A.I.C. RATINGS OF SWITCHBOARDS AND PANEL BOARDS PER UTILITY COMPANY REQUIREMENTS. EVIDENCE OF SUCH COORDINATION SHALL BE AVAILABLE ON SITE FOR REVIEW BY INSPECTOR OF RECORD (IOR).
10. SWITCHBOARDS AND PANEL BOARDS THAT ARE LIKELY TO BE ENERGIZED WHILE BEING MAINTAINED OR SERVICED BY QUALIFIED PERSONNEL SHALL BE LABELED WARNING OF POSSIBLE ARC FLASH HAZARDS AND IDENTIFIED WITH THE APPROPRIATE ARC FLASH PROTECTION RATING PERSONAL PROTECTIVE EQUIPMENT (PPE) SIGNAGE (PER CEC ART. 110.16).
11. CONTRACTOR IS TO PROVIDE ENGRAVED NAMEPLATES ON EACH SERVICE PANEL, TRANSFORMER, DISCONNECT SWITCH MOTOR STARTER, ETC. (PER CEC-110.3).
12. CONTRACTOR WILL BE REQUIRED TO PROVIDE A LABEL PER CEC ARTICLE 408.4(A). PROVIDE TYPED PANEL BOARD DIRECTORIES. PANEL BOARDS SHALL ALSO BE MARKED COMPLIANT WITH CEC 408.4(B) FOR ORIGINATED SOURCE OF POWER.
13. NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN 6 FEET OF THE FLOOR OR TO THE STRUCTURAL CEILING ABOVE THE SPACE OF ELECTRICAL EQUIPMENT (PER CEC ART. 110.26).
14. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, SUCH AS HANDLE-TIES AND MULTI-POLE BREAKERS (PER CEC- 210.4(B)).
15. THE DISCONNECTING MEANS FOR EACH SERVICE, FEEDER OR BRANCH CIRCUIT ORIGINATING ON A SWITCHBOARD OR PANELBOARD SHALL BE LEGIBLY AND DURABLY MARKED TO INDICATE ITS PURPOSE UNLESS SUCH PURPOSE IS CLEARLY EVIDENT (CFC-605.3.1).
16. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE	2022
CALIFORNIA ELECTRICAL CODE	2022
NON RESIDENTIAL CEC ENERGY STANDARDS	2022

17. PROVIDE THE MAIN SERVICE EQUIPMENT ROOM EGRESS DOOR, WITH THE REQUIRED DIRECTION OF THE DOOR SWING AND THE REQUIRED DOOR HARDWARE. ART.110.26(C)(3).
18. PROVIDE ARC-FAULT PROTECTION FOR ALL REQUIRED CIRCUITS AS PER ART. 210.12 (CEC).

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 2022 CBC Sections. 1617A.1.18 through 1617A.1.26 and ASCE 7 -16 Chapter 13,26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e .g. hard, wired) to the building utility services such as electricity, gas or water. "Permenantly attached" shall include all electrical connections except plugs for 110/220 volt receptacles having flexible cable.
3. Temporary, movable equipment or mobile equipment which is heavier than 400 lbs or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both traverse and longitudinal directions

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage for all mechanical, electrical and plumbing components shall be subject to approval of the design professional in general responsible charge or Structural Engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping. Ductwork. and Electrical Distribution System Bracing Note:

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5., 13.6.6, 13.6.7, 13.6.8 and 2022 CBC Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g. OSHPD OPM for 2013 CBC or later), Copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems(E):

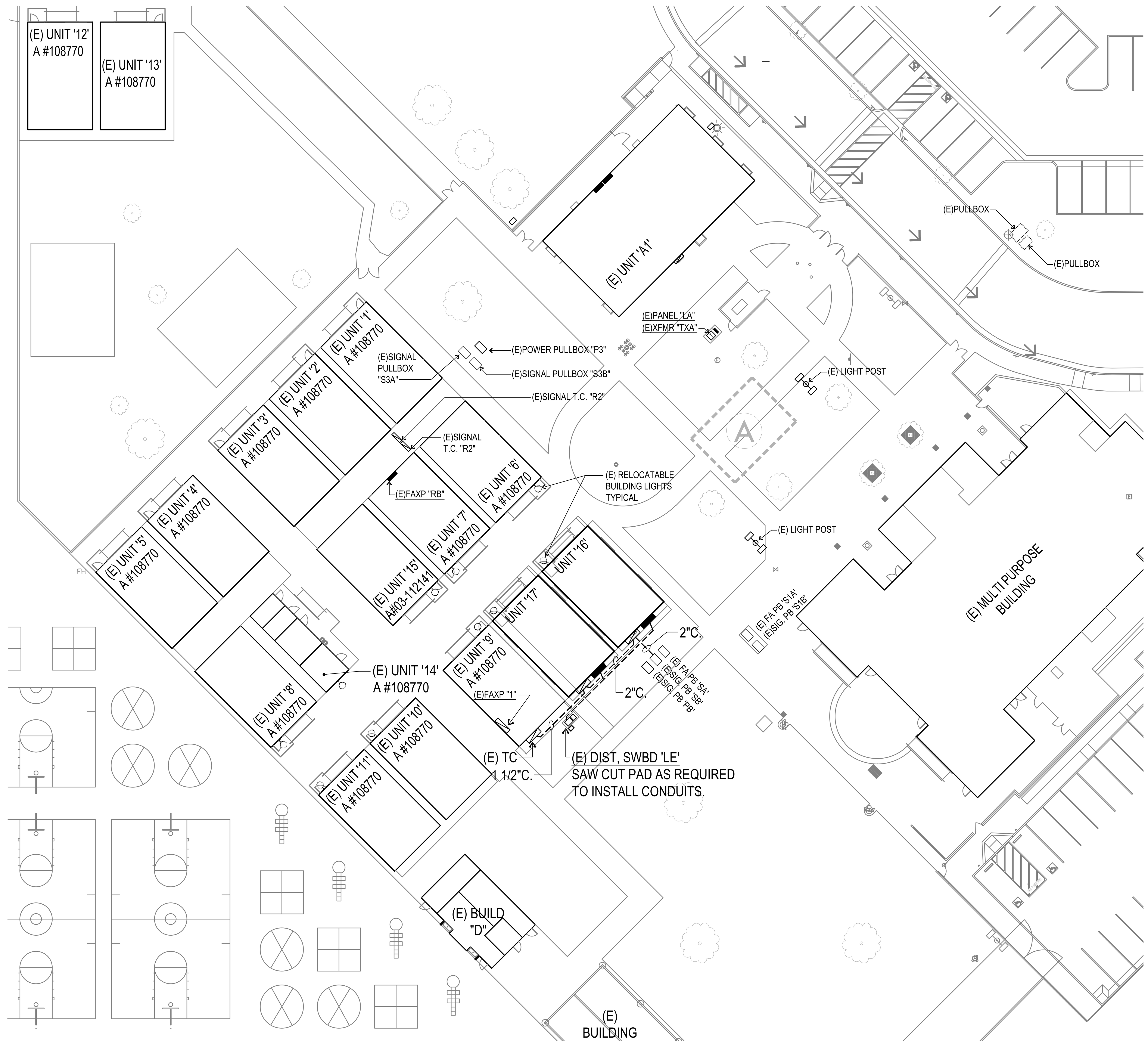
~~MP☐ MD☐ PP☐ E☒ Option 1: Detailed on the approved drawings with project specific notes and details.~~

~~MP☐ MD☐ PP☐ E☐ Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) #OPM-0052-13~~

No equipment over 20 lbs and center of mass more than 4ft will be installed.

SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION
Ⓙ	JUNCTION BOX - AS REQUIRED	4" SQUARE BOX & FLUSH PLATE MINIMUM
▨	ELECTRICAL SWITCHBOARD	REFER TO SINGLE LINE DIAGRAM
▬	ELECTRICAL PANEL	REFER TO PANEL SCHEDULE
▭	TERMINAL CABINET	24"H x 18"W x 4"D
⊡	POST TOP LIGHT FIXTURE	SEE POLE BASE DETAIL THIS SHEET
- - - -	WIRING BELOW GRADE	3/4" CONDUIT MINIMUM, REFER TO SPECIFICATIONS
——	WIRING IN WALL OR CEILING	3/4" CONDUIT MINIMUM, REFER TO SPECIFICATIONS
——]	CONDUIT STUB AND CAP	
—/// —	NUMBER OF HASH MARKS DENOTES NUMBER OF CONDUCTORS	
→ 'A-15'	HOME RUN	TO PANEL 'A' CIRCUIT '15'
— ·· —	(E) CONDUIT TO REMAIN	
(E)	EXISTING ITEM	
U.O.N.	UNLESS OTHERWISE NOTED	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	



POWER / SIGNAL SITE PLAN

SCALE : 1" = 20'-0"

0 10' 20' 30' 40' 60'

NORTH

IDENTIFICATION STAMP
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APP: 03-124658 INC:
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General Shafter School District
Excellence in Education Since 1904

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2-24x40 RELOCATABLE CLASSROOMS AT GENERAL SHAFTER ELEMENTARY SCHOOL

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LICENSED ARCHITECT
STEPHEN J. CORBIN
No. C-16788
REN. 11/30/25
STATE OF CALIFORNIA

[illegible]

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph. (559) 276-5144
Fax (559) 900-4929
Email @ dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER
DAVOR P. GOLIK
17151
EXP. 09/30/25
ELECTRICAL
STATE OF CALIFORNIA

[illegible]

ELECT. SITE PLAN, SYMBOL LEGEND, & NOTES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.	1389
DRAWN :	R.L.M.
CHECKED :	D.P.G.
DATE :	06/03/24

1.00

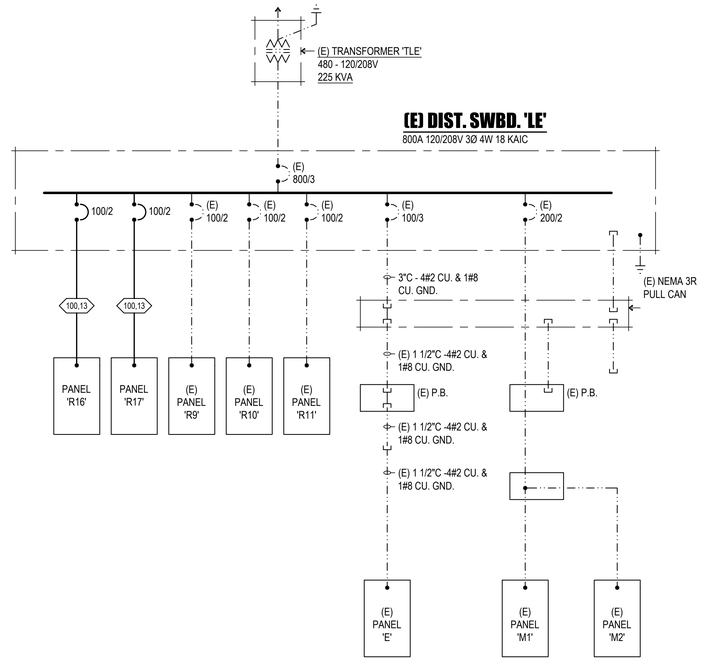
OF SHEETS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124658 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2025

PTN : 63487-7 FILE: 15-70

2-24x40 RELOCATABLE CLASSROOMS AT GENERAL SHAFTER ELEMENTARY SCHOOL

1825 SHAFTER ROAD, BAKERSFIELD CA. 93313
FOR
GENERAL SHAFTER SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



POWER SINGLE LINE DIAGRAM

NO SCALE (1 / E-1.10)

FEEDER SCHEDULE

AMPS	CONDUIT AND CONDUCTORS (THHN/THWN CU) PVC, EMT OR GRS	1Ø 3W (13)	3Ø 3W (33)	3Ø 4W (34)	3Ø 5W (35)	NYLON PULL LINE (NPL)	GROUNDING (THHN/THWN) COPPER PER CONDUIT
30	3/4"	3 #10	3 #10	4 #10	NA	1	#10
40	3/4"	3 #8	3 #8	4 #8			#10
50	1"	3 #6	3 #6	4 #6			#10
60	1"	3 #6	3 #6	4 #6			#10
70	1 1/4"	3 #4	3 #4	4 #4			#8
80	1 1/4"	3 #3	3 #3	4 #3			#8
90	1 1/4"	3 #2	3 #2	4 #2			#6
100	1 1/2"	3 #1	3 #1	4 #1	5 #1		#6
125	1 1/2"	3 #1	3 #1	4 #1	5 #1		#6
150	2"	3 #1/0	3 #1/0	4 #1/0	5 #1/0		#6
175	2"	3 #2/0	3 #2/0	4 #2/0	5 #2/0		#4
200	2"	3 #3/0	3 #3/0	4 #3/0	---		#4
225	2 1/2"	3 #4/0	3 #4/0	4 #4/0	5 #4/0		#2
250	3"	3 #250 Kcmil	3 #250 Kcmil	4 #250 Kcmil	5 #250 Kcmil		#2
300	3 1/2"	3 #350 Kcmil	3 #350 Kcmil	4 #350 Kcmil	5 #350 Kcmil		#2
350	4"	3 #500 Kcmil	3 #500 Kcmil	4 #500 Kcmil	5 #500 Kcmil		#1/0
400	4"	3 #500 Kcmil	3 #500 Kcmil	4 #500 Kcmil	5 #500 Kcmil		#1/0
500	(2)3"	3 #250 Kcmil (EA)	3 #250 Kcmil (EA)	4 #250 Kcmil (EA)	5 #250 Kcmil (EA)		#2/0
600	(2)3 1/2"	3 #350 Kcmil (EA)	3 #350 Kcmil (EA)	4 #350 Kcmil (EA)	5 #350 Kcmil (EA)		#2/0
700	(2)4"	3 #500 Kcmil (EA)	3 #500 Kcmil (EA)	4 #500 Kcmil (EA)	5 #500 Kcmil (EA)		#2/0
800	(2)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#2/0
1000	(3)3 1/2"	3 #400 Kcmil (EA)	3 #400 Kcmil (EA)	4 #400 Kcmil (EA)	5 #400 Kcmil (EA)		#3/0
1200	(4)3 1/2"	3 #350 Kcmil (EA)	3 #350 Kcmil (EA)	4 #350 Kcmil (EA)	5 #350 Kcmil (EA)		#3/0
1600	(4)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#4/0
2000	(5)4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#4/0

2000,3S
FEEDER AMPS
CONDUCTOR TYPE (3Ø 5W)

NOTE:
3Ø 5W FEEDERS ARE ØA, ØB, ØC AND TWO NEUTRAL CONDUCTORS FOR NON LINEAR LOAD APPLICATIONS.

VERIFY EQUIPMENT LUG SIZE PRIOR TO ORDERING CONDUCTORS, PARALLEL FEEDER EQUIVALENT IS ACCEPTABLE.

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FAX: (661) 397-4378
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LICENSED ARCHITECT STEPHEN J. CORBIN No. C-17765 REG. 12/31/25 STATE OF CALIFORNIA

STEPHEN J. CORBIN, NCARB, AIA, LEED ®-AP

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REGISTERED PROFESSIONAL ENGINEER VICTOR T. DOLLY No. 17579 Civil Structural ELECTRICAL STATE OF CALIFORNIA

ELECT. DETAILS & SCHEDULES

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JOB NO. 1389
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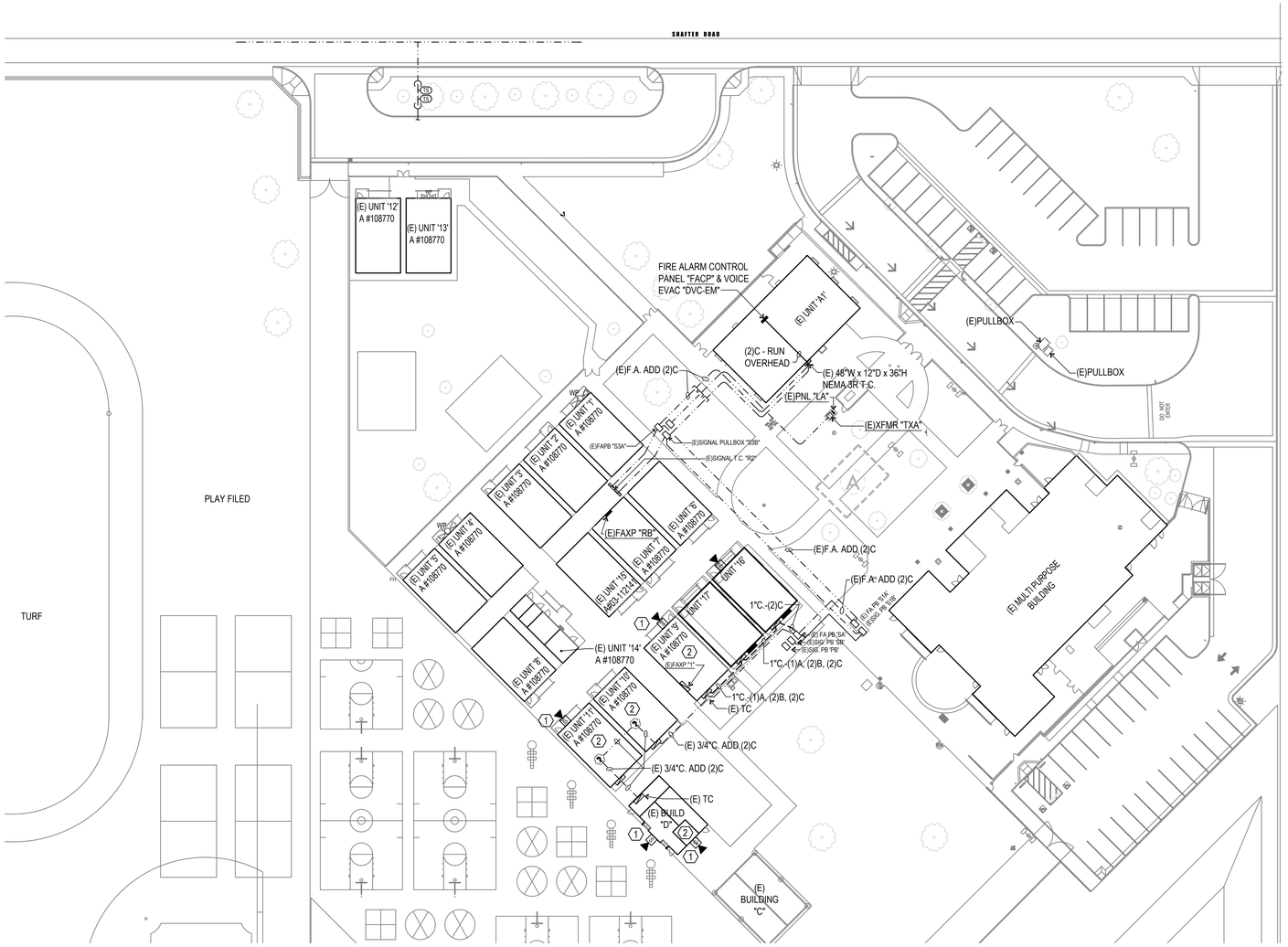
FIRE DETECTION SYSTEM NOTES:

1. ALL WIRING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR MAY VARY SEQUENCE OR CIRCUITRY: HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED FROM DEVICE TO DEVICE OR FATC TO DEVICE OR FACP TO FATC OR FATC TO FATC. NO PARALLEL BRANCHING SHALL BE ALLOWED. ANY CONNECTION OF ANY BREAK IN ANY CONDUCTOR SHALL BE BY TERMINAL CONNECTION AT A DEVICE OR AT A FATC ONLY.
2. ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STAKE ON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATE.
3. FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS, DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
4. FIRE ALARM PANEL, REMOTES AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS WITHOUT SPECIAL MOUNTING DETAILS. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS AT +48" ABOVE FINISHED FLOOR.
5. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE #12 & #14 AWG, STRANDED (19 STRANDS OR LESS) COPPER THHN OR THWN OR #16/2 SLC LOOP UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
6. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7. UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
7. INSTALLATION OF F.A. EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED. INSTALLER SHALL BE NICET LEVEL 3 CERTIFIED. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT / ENGINEER OF THE PROJECT.
8. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION
9. WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORM BY THE FIRE ALARM EQUIPMENT DISTRIBUTOR (OR VENDOR OR MANUFACTURER) SHALL BE SUBMITTED TO DSA (WITH COPIES TO THE ELECTRICAL ENGINEER AND THE ARCHITECT OF RECORD) AND THE INSTALLATION INCLUDES TESTING AND OPERATION THAT CONFORMS IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN C.B.C. SECTION 907.8. THE CONTRACTOR SHALL COMPLETE A FIRE ALARM SYSTEM RECORD AND COMPLETION FORM AND SUBMIT TO DSA.
10. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND INSPECTOR OF RECORD. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND OR TESTING.
11. THE CERTIFIED INSTALLER WILL BE REQUIRED TO PROVIDE ALL FACTORY WARRANTIES AT THE CLOSE UP OF THE PROJECT.
12. SMOKE DETECTORS SHALL BE MOUNTED MINIMUM 36" FROM SUPPLY AND RETURN AIR VENTS PER MANUFACTURER'S RECOMMENDATIONS AND NFPA72, 17.7.4.1.(2022 EDITION WITH SFM AMENDMENTS).
13. THE CONTRACTOR SHALL ARRANGE A MEETING WITH F.A. INSTALLER PRIOR TO ROUGH-IN TO COORDINATE THE INSTALLATION.
14. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY CBC 907.6.5. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.
15. ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5DBA ABOVE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS PER CFC 907.5.2.1.1. THE FIRE ALARM EVACUATION SIGNAL SHALL SOUND A SYNCHRONIZED THREE PULSE TEMPORAL PATTERN AS DESCRIBED IN NFPA 72 (CBC 907.5.2.1.3 AND NFPA 18.4.2.1.
16. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR PULSE TEMPORAL PATTERN PER NFPA 720 5.8.6.5.1
17. MICROPHONE ACCESSIBILITY SHALL COMPLY WITH CBC 11B-305 AND 11B-308
18. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. VISUAL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED.
19. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH STATE FIRE MARSHAL'S REGULATIONS AS ADOPTED AND AMENDED IN THE 2022 EDITION, CBC CHAPTER 35 (CBC SEC. 907.7, 907.8) & NFPA 72, 2022 EDITION.
20. PROVIDE ACCESS HOLE FOR ALL ATTIC HEAT DETECTORS LOCATED IN NON-ACCESSIBLE CRAWL OR ATTIC SPACES.
21. ALL BATTERIES SHALL BE STAMPED WITH DATE PUT INTO SERVICE.
22. MANUAL PULL STATIONS SHALL NOT REQUIRE TIGHT GRIPPING, OR TWISTING OF THE WRIST TO OPERATE.
23. SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH 2022 CBC, 2022 CFC, 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE AND NFPA 720, STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT (2015)
24. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
25. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL" CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
26. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAYOR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
27. PROVIDE FIRE WATCH TO COMPLY WITH DSA IRF-2 IF DURING CONSTRUCTION THE FIRE ALARM SYSTEM IS NOT OPERATIONAL AND STUDENTS ARE PRESENT IN CAMPUS.
28. VERIFY ALL ADDRESSES OF EXISTING FIRE ALARM INITIATION DEVICES, PRIOR TO INSTALLING AND PROGRAMING. ANY DISCREPANCIES FROM THE ESTABLISHED PLAN SHALL BE REFLECTED ON THE ONE LINE DIAGRAM OF THE SUBMITTAL.



FIRE ALARM SITE PLAN

SCALE : 1" = 30'-0"

0 10' 20' 30' 40' 60' NORTH

FIRE ALARM SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION	CSFM #
(E)	EXISTING ITEM		
U.O.N.	UNLESS OTHERWISE NOTED		
	WIRING UNDERGROUND OR IN WALL	3/4"C MIN U.O.N.	
	EXISTING CONDUIT TO REMAIN		
(E)FACP	(E) FIRE ALARM CONTROL PANEL	NOTIFIER #NFS2 640	7165-0028:0214
(E)EVAC	(E) F.A. VOICE EVACUATION SYSTEM	NOTIFIER #DVC-EM	7165-0028-0243
(E)EXP	(E) FIRE ALARM EXPANDER	NOTIFIER #ACPS-2406	7315-0028:0213
	PHOTOELECTRIC SMOKE DETECTOR W/ ADDRESSABLE BASE	NOTIFIER #FSP-851 NOTIFIER #B210LP	7270-0028:0206 7300-1653:0109
A	ATTIC HEAT DETECTOR W/ ADDRESSABLE BASE	NOTIFIER #FST-851H NOTIFIER #B210LP	7270-0028:0196 7300-1653:0109
MM	MONITOR MODULE	NOTIFIER #FDRM-1	7300-0028:0219
TS H	TAMPER SWITCH	BY SPRINKLER CONTRACTOR	-
FS H	FLOW SWITCH	BY SPRINKLER CONTRACTOR	-
B	F.A. ALARM BELL	BY SPRINKLER CONTRACTOR	-
C15	F.A. SPEAKER / STROBE. (CEILING MTD.) C=CEILING MTD., (MC) = MULTI-CANDELA, SET PER PLANS W = SPEAKER WATTAGE	SYSTEM SENSOR #SCW-P	7125-1653:0186
CMCXcd	F.A. SPEAKER / STROBE. (CEILING MTD.) Xw = WATTAGE C = CEILING MOUNTED, (MC)cd= MULTI-CANDELA SETTINGS	SYSTEM SENSOR #SPSCW-P (SEE PLANS FOR SETTINGS)	7320-1653:0201
xW	FIRE ALARM EXTERIOR SPEAKER. (WALL MTD.) xW = WATTAGE	SYSTEM SENSOR #SPRK (SEE PLANS FOR SETTINGS)	7320-1653:0201
	END-OF-LINE RESISTOR	PER MANUFACTURER SPECIFICATION	

FIRE ALARM DEVICE SEQUENCE OF OPERATION MATRIX

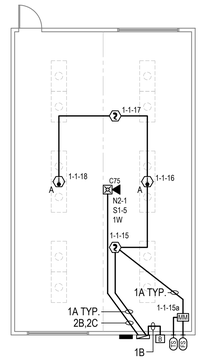
SYSTEM INPUT → / SYSTEM OUTPUT ↓	AREA SMOKE OR HEAT DETECTORS	SPRINKLER RISER FLOW SWITCH	SPRINKLER RISER TAMPER SWITCH	POWER FAILURE GROUND FAULT	TROUBLE	ELECTRICAL SUPERVISION	MANUAL PULL STATION
ANNUNCIATE AT ADMINISTRATION OFFICE	•	•	•	•	•	•	•
ACTIVATE AUDIO/VISUAL THRU-OUT CAMPUS	•	•					•
CENTRAL STATION MONITORING	•	•	•	•			•
ACTIVATE VOICE EVACUATION PANEL	•						

FA CABLE SCHEDULE			
'A'	ADDRESSABLE FA COMMUNICATION CABLE	WEST PENN #D990 (INDOOR)	WEST PENN #AQ225 (OUTDOOR)
'B'	2#12 CU.	WEST PENN #998 (INDOOR)	WEST PENN #AQ227 (OUTDOOR)
'C'	SPEAKER CABLE 14/2	WEST PENN #972 (INDOOR)	WEST PENN #AQ295 (OUTDOOR)

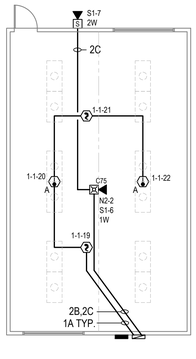
NOTE: ALL FIRE ALARM CABLE INSTALLED IN 3/4"C EMT RED MIN.

REFERENCE NOTES

1. REPLACE EXISTING FA HORN WITH NEW SPEAKER HORN. SEE FIRE ALARM SINGLE LINE DIAGRAM FOR NEW CONNECTION REQUIREMENTS.
2. REPLACE ALL EXISTING FA HORN / VISUALS IN THIS BUILDING WITH NEW SPEAKER / VISUALS. SEE FIRE ALARM SINGLE LINE DIAGRAM FOR NEW CONNECTION REQUIREMENTS.



UNIT 17



UNIT 16

FIRE ALARM FLOOR PLANS

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

0 4' 8' 12' 16' 24' NORTH

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REGISTERED PROFESSIONAL ENGINEER DAVID P. GOLDEN EXP. 09/30/25 ELECTRICAL STATE OF CALIFORNIA

F.A. SITE PLAN, FLOOR PLANS, SYMBOL LEGEND, SCHEDULES & NOTES

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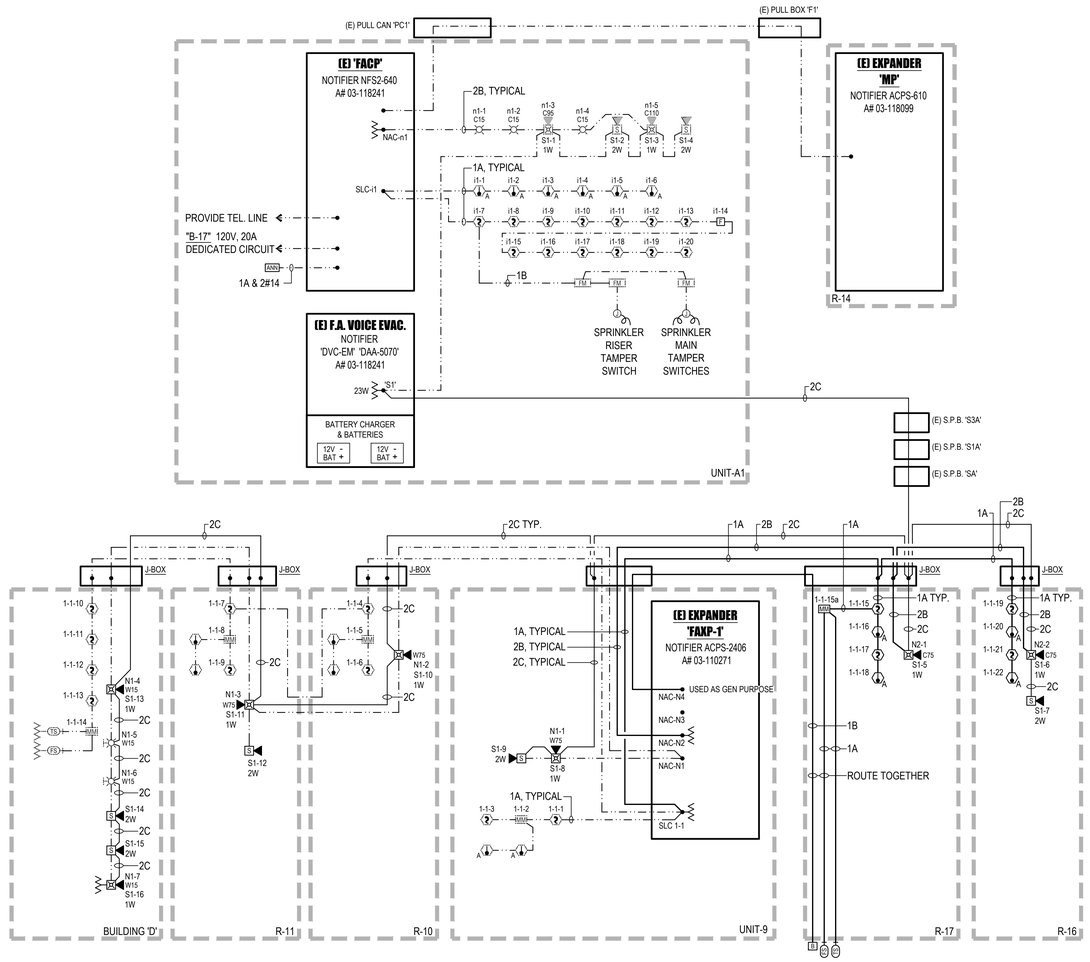

FIRE ALARM SINGLE LINE DIAGRAM

NOT TO SCALE (1 / E-2.10)

-

FA EXPANDER BATTERY CALCULATION

Expander Panel "FAXP-1"

POWER REQUIREMENTS

	No.	CURRENT [A] SUPERVISORY	ALARM
PANEL OVERHEAD	-	0.880	1.461
(E) INITIATION DEVICES	14	0.004	0.007
(N) INITIATION DEVICES	8	0.002	0.028
(E) NAC CKT SUMMARY	2	-	1.168
TOTALS		0.887	2.664

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.8866A =	21.278 AHr
ALARM POWER	= 0.25 Hr * 2.664A =	0.666 AHr
TOTAL POWER REQUIREMENT =		21.944 AHr
WITH 25% SAFETY FACTOR =		27.431 Ahr
MINIMUM BATTERY CAPACITY =		55 AHr

USE NOTIFIER BATTERIES (2) BAT-12550-BP

Note:
1. PRIOR TO START OF CONSTRUCTION, PERFORM BATTERY TEST AND PROVIDE REPORT TO EOR. INCLUDE IN REPORT, EXISTING SUPERVISORY AND ALARM CURRENT.
2. PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

NAC Circuit 'N1'

VD = Voltage Drop [V]
I = Current [A] (0.816A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (185')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{11 * 0.816 * 2 * 185}{6530} = 0.509\ V$

$VD\% = \frac{VD}{20.4} = 2.5\%$

VOLTAGE DROP CALCULATION

NAC Circuit 'N2'

VD = Voltage Drop [V]
I = Current [A] (0.352A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (105')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$VD = \frac{K * I * 2L}{CM} = \frac{11 * 0.352 * 1 * 105}{6530} = 0.125\ V$

$VD\% = \frac{VD}{20.4} = 0.6\%$

VOICE EVAC BATTERY CALCULATION

DAA SERIES DIGITAL AUDIO AMPLIFIERS "DAA-5070"

POWER REQUIREMENTS

	CURRENT [A] STANDBY	ALARM
PANEL OVERHEAD	0.027	0.446
SPEAKER LOAD	-	0.384
TOTALS	0.027	0.830

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.0272A =	0.653 AHr
SPEAKER LOAD	= 0.25 Hr * 0.83A =	0.208 AHr
TOTAL POWER REQUIREMENT =		0.860 AHr
MINIMUM BATTERY CAPACITY =		1.075375 AHr

PROVIDE 5 AH BATTERY

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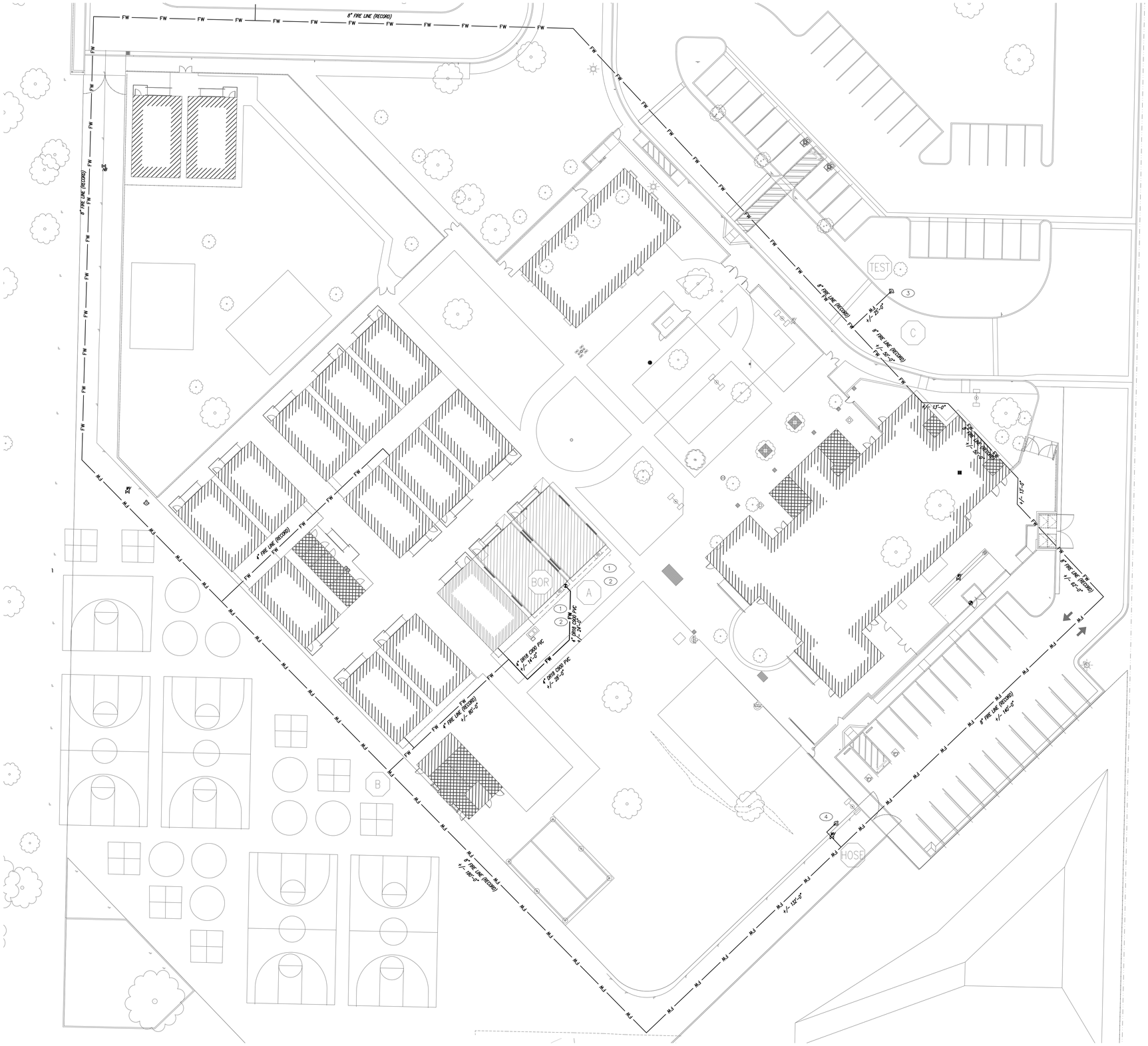
JOB NO. 1389
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 06/03/24

2.10 OF SHEETS



FIRE SPRINKLER HYDRAULIC REFERENCE SITE PLAN (FOR HYDRAULIC REFERENCE ONLY)

SCALE: 1"=20'-0"

KEY NOTES

1. FIRE SPRINKLER RISER
2. 10" ELECTRIC BELL
3. FLOW TEST HYDRANT
4. READ HYDRANT

Hydrant Flow Test Report

Test Date 6/17/2024 **Test Time** 1:30 PM

Location
General Shafter Elementary School
1825 Shafter Rd
Bakersfield, CA 93313

Tested by
Another In The Fire, Inc.
16022 San Marco Pl
Bakersfield, Ca. 93314
C-16 License #1078553
NICET Cert. #149354
David Holt & Jerry Esposito

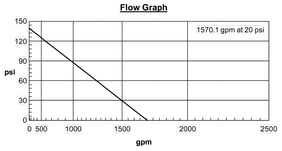
Notes
Hydrant A Pressure Readings
Hydrant B Flow Hydrant

Read Hydrant
140 psi **static pressure**
58 psi **residual pressure**
1.5 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1		2.5	.9	58	1278 gpm

Flow Graph



Created with the free hydrant flow test program from www.igneusinc.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124658 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2025

PTN : 63487-7 FILE:15-70

TWO (2) RELOCATABLE CLASSROOMS AT GENERAL SHAFTER ELEMENTARY SCHOOL

1825 SHAFTER ROAD, BAKERSFIELD, CA 93313

FOR

GENERAL SHAFTER SCHOOL DISTRICT

BAKERSFIELD, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. CORBIN, AIA, NCARB, LEED®-AP BD+C

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

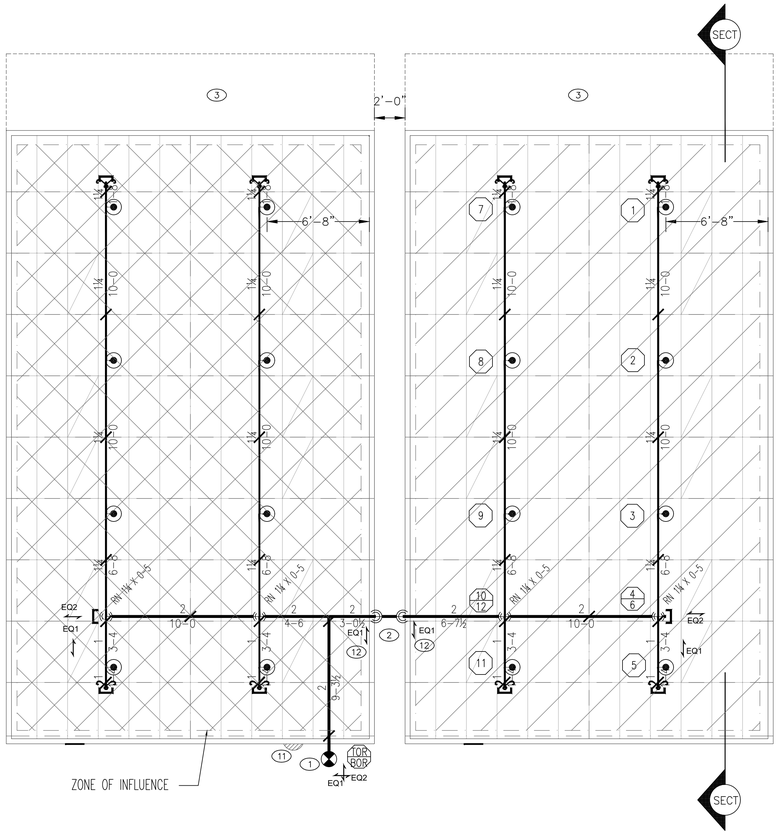
FIRE SPRINKLER HYDRAULIC REFERENCE SITE PLAN

MARK	DATE	REVISIONS
1		
2		
3		

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Plt: 10-24-24

JOB NO.
DRAWN :
CHECKED :
DATE :

FP1
OF SHEETS



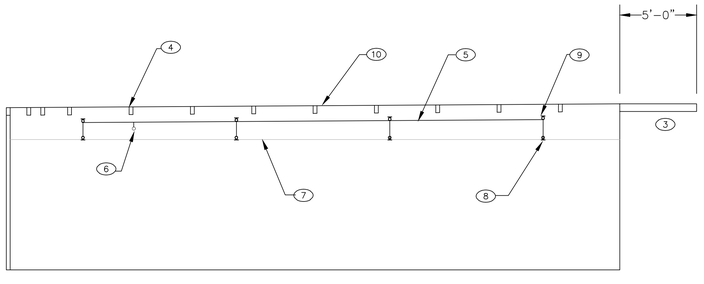
FIRE SPRINKLER PIPING PLAN

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

HYDRAULIC - SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System.

Location	Portable	
No. of Sprinklers	8	
Basis Of Design		
1. DENSITY	.1	GPM/SQ. FT.
2. DESIGNED AREA OF DISCHARGE	Entire Bldg.	SQ. FT.
System Demand		
1. GPM DISCHARGE	127.60	GPM
2. RESIDUAL PRESSURE AT THE BASE OF THE RISER	41.36	PSI
Building Information		
1. OCCUPANCY CLASSIFICATION	Light Hazard	
2. COMMODITY CLASSIFICATION	N/A	
3. MAXIMUM STORAGE HEIGHT	N/A	



FIRE SPRINKLER BUILDING CROSS SECTION

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

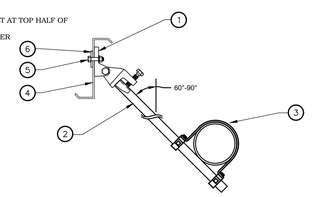
KEY NOTES

1. FIRE SPRINKLER RISER
2. METRAFLEX FIRE LOOP WITH AIR RELEASE VALVE - 4" MOVEMENT
3. NONCOMBUSTIBLE EXTERIOR CANOPY - NO A.S. REQUIRED PER NFPA 13 8.15.7.3
4. 1" - 6" DEFLECTOR DISTANCE
5. BRANCH LINE
6. 2" FIRE SPRINKLER MAIN
7. T-BAR CEILING
8. 155° QR SEMI RECESSED PENDENT SPRINKLER HEAD
9. 200° QR UPRIGHT SPRINKLER HEAD
10. STEEL JOIST WITH METAL DECK
11. 10" ELECTRIC BELL
12. SEISMIC BRACE TO ROOF STRUCTURE

GENERAL NOTES

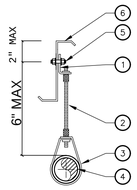
1. CONTRACTOR IS TO COORDINATE WITH ALL OTHER DISCIPLINES. REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING SHEETS, FIRE PROTECTION SPECIFICATIONS, AS WELL AS OTHER PORTIONS OF THE CONTRACT DOCUMENTS FOR ADDITIONAL COORDINATION REQUIREMENTS.
2. THE LAYOUT REQUIREMENTS DESCRIBED IN THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDED CODE CONSTRAINTS AND/OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION (AHJ'S). WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO ENGINEER OF RECORD REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
3. PIPE SIZED BY LIGHT HAZARD PIPE SCHEDULE. 15.8 PSI IS MINIMUM REQUIRED REQUIRED TO OPERATE AT BOR ON EXISTING SYSTEMS. 15 PSI IS MINIMUM PSI REQUIRED PER NFPA 13,
4. ALL AREAS OF THE BUILDING NOT COVERED BY NOTES HEREIN SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH SPECIFICATIONS, NFPA 13, 2022 ED., CITY OF ARVIN FIRE DEPARTMENT REQUIREMENTS, DSA FIRE PROTECTION DESIGN STANDARDS AND CODE REQUIREMENTS.
5. WHERE PLAN INDICATES EXPOSED FIRE SPRINKLER PIPING DIRECTION OF LAYOUT, ASSOCIATED CONNECTED FIRE SPRINKLER PIPING RUNNING IN PERPENDICULAR DIRECTIONS SHALL BE INSTALLED ONLY IN CONCEALED LOCATIONS UNLESS INDICATED OTHERWISE.
6. EXPOSED FIRE SPRINKLER SYSTEM PIPING SHALL BE RUN STRAIGHT AND TIGHT TO UNDERSIDE OF STRUCTURAL MEMBERS.
7. FOR HANGER DETAILS, SEE DETAIL 5 ON THIS SHEET.
8. UNO, ALL HANGERS ARE LESS THAN 6" FROM TOP OF PIPE TO POINT OF CONNECTION TO STRUCTURE. NO BRANCH LINE RESTRAINT IS REQUIRED PER NFPA 13, 18.6.5.
9. ALL PIPE 2" AND SMALLER SHALL BE SCHEDULE 40, BLACK STEEL ANSI/ASTM A135.
10. ALL GROOVED AND WELDED PIPE 2 ½" - 6" SHALL BE SCHEDULE 10, BLACK STEEL ANSI/ASTM A795.
11. THREADED FITTINGS SHALL BE CLASS 125 THREADED CAST IRON ANSI B16.4.
12. ALL THREADED PIPE AND FITTINGS SHALL HAVE THREADS CUT TO ANSI/ASME STANDARD B1.20.1.

1. ANVIL/AFCON FIG. AF700 SWAY BRACE SWIVEL ATTACHMENT
2. BRACE PIPE - 1" SCHED. 40 L/R 200-7'-0" MAX. LENGTH
3. ANVIL/AFCON FIG. AF035 BRACE CLAMP
4. Z-PURLIN
5. 1/2" THRU-BOLT AT TOP HALF OF Z-PURLIN
6. SQUARE WASHER



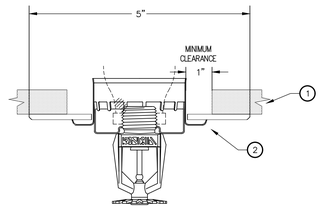
LATERAL SEISMIC BRACE DETAIL — NTS — EQ1 — 5

1. ANVIL 551 THREADED SIDE BEAM BRACKET
2. 3/8" ALL THREAD ROD
3. ANVIL FIG. 69 ADJUSTABLE SWIVEL RING HANGER
4. FIRE SPRINKLER PIPE
5. 3/8" BOLT, NUT AND WASHER (HOLES FOR BOLTS SHALL NOT EXCEED ¼ IN. GREATER THAN THE DIAMETER OF THE BOLT)
6. Z-PURLIN



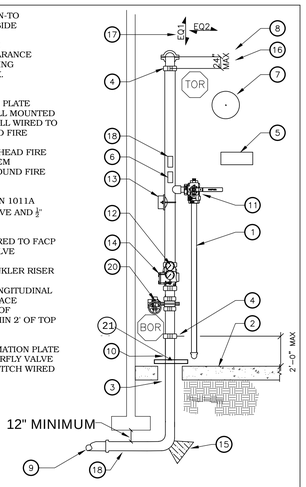
HANGER DETAIL — NTS — 6

1. T-BAR CEILING
2. EXPANSION PLATE



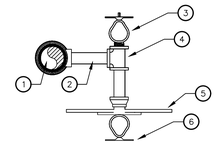
PENDENT SPRINKLER THROUGH T-BAR CEILING DETAIL — NTS — 7

1. 1 1/4" MAIN DRAIN-TO TERMINATE OUTSIDE BUILDING FACE
2. FINISHED GRADE
3. 2" ANNULAR CLEARANCE
4. FLEXIBLE COUPLING
5. SPARE HEAD BOX. 6-SSU 6-SSF
6. HYDRAULIC CALC PLATE
7. 10" ELECTRIC BELL MOUNTED ON EXTERIOR WALL WIRED TO FLOWSWITCH AND FIRE ALARM SYSTEM
8. SUPPLY TO OVERHEAD FIRE SPRINKLER SYSTEM
9. FROM UNDERGROUND FIRE LINE
10. AMES 4" IBR
11. AGF TEST N DRAIN 1011A WITH RELIEF VALVE AND ½" ORIFICE.
12. 300# GAUGE
13. FLOWSWITCH WIRED TO FACP
14. RISER CHECK VALVE
15. THRUST BLOCK
16. 2 1/2" FIRE SPRINKLER RISER TOR +9-4 1/2"
17. LATERAL AND LONGITUDINAL EARTHQUAKE BRACE MOUNTED TO ROOF STRUCTURE WITHIN 2' OF TOP OF RISER
18. 4" AMES IBR
19. GENERAL INFORMATION PLATE
20. GROOVED BUTTERFLY VALVE WITH TAMPER SWITCH WIRED TO FACP
21. RISER CLAMP



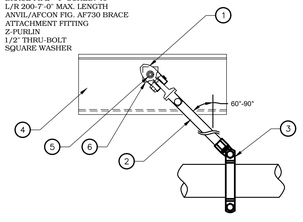
FIRE SPRINKLER RISER DETAIL — NTS — 1

1. BRANCHLINE
2. 1" SCHED. 40 ARMOVER
3. 1/2", 200° BRASS UPRIGHT
4. 1x1/2"x1" TEE
5. CEILING
6. 1/2" 155° 5.6K SEMI RCESSED PENDENT



FIRE SPRINKLER UPRIGHT OVER PENDENT DETAIL — NTS — 2

1. ANVIL/AFCON FIG. AF700 SWAY BRACE SWIVEL ATTACHMENT
2. BRACE PIPE - 1" SCHED. 40 L/R 200-7'-0" MAX. LENGTH
3. ANVIL/AFCON FIG. AF730 BRACE ATTACHMENT FITTING
4. Z-PURLIN
5. 1/2" THRU-BOLT
6. SQUARE WASHER



LONGITUDINAL SEISMIC BRACE DETAIL — EQ2 — 3

FIRE SPRINKLER LEGEND

SYM	QTY	TYPE	FINISH	TEMP	K	NPT	SIN#	MFG	MODEL#	ESCUTCHEON
●	8	QR PEND	WHITE	155°	5.6	1/2"	VK3021	VIKING	MICROFAST	SEMI RECESS
○	8	QR SSU	BRASS	200°	5.6	1/2"	VK3001	VIKING	MICROFAST	N/A
TOTAL THIS SHEET	16									

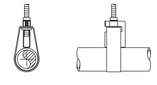
FIRE SPRINKLER INFORMATION IS FOR PLAN REVIEW ONLY. INSTALLING CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCURATE SPRINKLER LAYOUT AND QUANTITIES, NO PRICING ADJUSTMENT WILL BE ALLOWED SPRINKLER HEADS ADDED BY CONTRACTOR.

SYMBOL	DESCRIPTION
1 / FP1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN
⊙	HYDRAULIC CALCULATION REFERENCE NODE
	SEISMIC BRACE
	FIRE SPRINKLER RISER
	GROOVED COUPLING
	HANGER DESIGNATION
	CHANGE IN ELEVATION
	CAP
	PLUG
	VALVE
	FIRE SPRINKLER PIPE
	END OF LINE RESTRAINT

ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE OR ANY CHANGES TO SIZE, MANUFACTURER OR LENGTHS OF "FLEXIBLE" TYPE PIPING REQUIRE RESUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS AND HYDRAULIC CALCULATIONS. CONTRACTOR SHALL REIMBURSE OWNER FOR COST IF ADDITIONAL PLAN CHECK IS REQUIRED.

ANY CHANGES TO THE FIRE SPRINKLER SUPPORT, INCLUDING THE ADDITION OF SWAY BRACING, TO THE APPROVED CONSTRUCTION SET WILL RESULT IN A CHANGE TO THE CONSTRUCTION DOCUMENTS AND WILL REQUIRE ADDITIONAL PLAN REVIEW. CONTRACTOR SHALL REIMBURSE OWNER FOR COST IF ADDITIONAL PLAN CHECK IS REQUIRED.

ANVIL AF310 SURGE RESTRAINER



TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY

4

BASKIN MECHANICAL ENGINEERS
2131 19th St, Suite B
Bakersfield, CA 93301
Tel: (661) 397-2114
Plt: 10-24-2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124658 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 01/08/2025

PTN: 63487-7 FILE:15-70

TWO (2) RELOCATABLE CLASSROOMS AT GENERAL SHAFTER ELEMENTARY SCHOOL

1825 SHAFTER ROAD, BAKERSFIELD, CA 93313

FOR

GENERAL SHAFTER SCHOOL DISTRICT

BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT SCI inc.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM
STEPHEN J. CORBIN, AIA, NCARB, LEED® AP BD+C

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

FIRE SPRINKLER PIPING PLAN

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.

DRAWN :

CHECKED :

DATE :

FP2

OF SHEETS

MANUFACTURED RELOCATABLE MODULAR BUILDINGS
STOCKPILE FOR (59) 24'x40'
PORTABLE DSA CLASSROOMS
PC 4-104778

WILLSCOT
FROM STOCKPILE TO SITE SPECIFIC
RELOCATION PACKAGE
FOR:
GENERAL SHAFTER SD
(x2) R.H. 24x40 CLASSROOMS
Sn: 20156-57 & 20194-95

MSI
MODULAR STRUCTURES INTERNATIONAL Inc.
920 CITRUS AVE. RIVERSIDE, CA. 92507
(909) 788-3035

RECEIVED
JUL 2 4 2003
WESTERN DIVISION

BUILDING CODES AND STANDARDS

2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2001 CALIFORNIA BUILDING CODE VOLUMES 1, 2 AND 3 (PART 2 TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 AMENDMENTS)
2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 EDITION IAMPO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)
2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13, 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
NFPA 14, 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
NFPA 24, 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

BUILDING DATA

OCCUPANCY:	E-2
TYPE OF CONSTRUCTION:	V-NON RATED
WIND LOAD:	80 M.P.H. EXPOSURE 'C'
FLOOR LIVE LOAD:	50 PSF
ROOF LIVE LOAD:	20 PSF
BUILDING AREA:	24'x40'=960 SQ. FT.
STRUCTURAL DESIGN:	RIGID FRAME WITH CLEAR SPAN TRUSS
MODULES:	12'x40'
SEISMIC ZONE:	4
SEISMIC NEAR SOURCE FACTORS:	Z=0.4, P=1.0, Ca=0.44xNa, Na=1.5 REDUCED TO 1.1 PER TITLE 24 SEC. 1629A.4.2 I=1.0, R=4.5, Cv=0.64xNv, Nv=2.0
ENERGY COMPLIANCE:	CLIMATE ZONE 1 THRU 16

NOTES:
THIS P.C. IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.

THIS P.C. IS NOT APPROVED FOR 'A' OCCUPANCY USES.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECT. 4-342, PART 1, TITLE 24, CCR.
MIN INSPECTOR CLASS 2.

REVISION SUMMARY LOG

REVISION	DATE	DESCRIPTION OF REVISION	SHEET #
1.	–	–	–

DRAWING INDEX

ARCHITECT STAMP
DATE SIGNED JUL 15 2003

STRUCTURAL ENGINEER STAMP
LICENSE EXPIRES 6-30-2004

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 104353
AC FLS SS
DATE JUL 14 2003
AC: A.M. Smith
PW: Byron Co
SS: S. Forrest
STATE AGENCY STAMP

PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
AC FLS SS
DATE: 6-30-03
STATE AGENCY STAMP

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA, 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT: MODULAR CLASSROOM BUILDING
TITLE: COVER SHEET

JOB # 03-1012
03-1014
DATE 7/8/03
DRAWN BY JAG
AS NOTED
APPROVED
REVISIONS

SHEET NO.
CS

GENERAL SPECIFICATIONS

SECTION 1A

1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERA REQUIREMENTS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS.

C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 19, AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE DISTRICT ARCHITECT.

2. SCOPE OF WORK

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT, AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

B. ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (C.C.R.) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.

2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICT.

3. ON SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY OF THE BUILDING INSTALLATION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.

4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

3. WORK NOT INCLUDED

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.

B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS, WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
C. FIRE ALARM SYSTEM, FIRE EXTINGUISHER, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

4. WHEELS AND HITCH

SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. ACCESSIBILITY OF SITE

THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

6. GENERAL CONSTRUCTION

A. STRUCTURAL FRAME - EACH MODULE SHALL BE DESIGNED AS A MOMENT FRAME STRUCTURE TO WITHSTAND VERTICAL AND HORIZONTAL LOADS AND COMPLY WITH REQUIREMENTS OF THE DIVISION OF THE STATE ARCHITECT. THE NECESSARY PROVISIONS ARE INCORPORATED IN THE STRUCTURE TO PERMIT THE RELOCATION OF THE STRUCTURAL FRAME IN SECTIONS NOT EXCEEDING 12 FEET IN WIDTH.

B. FLOOR - THE FLOOR SHALL BE STEEL FRAMED WITH A DESIGN LIVE LOAD OF 50 lbs. PER SQUARE FOOT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

SECTION 5A STRUCT. AND MISC. STEEL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND AS SPECIFIED AND INDICATED ON THE DRAWINGS, SERVICES REQUIRED FOR STRUCTURAL AND MISCELLANEOUS STEEL.

2. MATERIALS

A. STRUCTURAL STEEL SHAPES- ASTM A-36, OPEN HEARTH OR ELECTRIC FURNACE ONLY, ALL REGULAR SHAPES AS DESCRIBED IN AISC CONSTRUCTION MANUAL, UNLESS OTHERWISE NOTED.

B. COLD FORMED LIGHT GAUGE STEEL- ASTM A-570 GRADE 33, MINIMUM YIELD 33,000 PSI.

C. STRUCTURAL PIPE - ASTM A-53 MIN. YIELD OF 35,000 PSI. STRUCTURAL TUBING - ASTM A-500 MIN. YIELD OF 46,000 PSI.

D. BOLT MATERIAL- BOLTS AND NUTS, AMERICAN STANDARD REGULAR, AS DETAILED IN AISC CONSTRUCTION MANUAL, FABRICATED FROM STRUCTURAL QUALITY STEEL, ASTM A-307.

E. ARC-WELDING ELECTRODES- CLASS E-70 SERIES FOR WELDING A-36 STEEL TO A-36 AND E-60 SERIES FOR WELDING A-570 STEEL TO A-36, CONFORMING TO REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF AMERICAN WELDING SOCIETY, LATEST EDITION.

F. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINUMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT LBS. AT MINUS 20 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

3. WORKMANSHIP

A. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLES 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF LIGHT GAUGE STEEL STRUCTURAL MEMBERS.

B. WELDING- ALL WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT.

C. ERECTION- STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDING AS INDICATED ON THE DRAWINGS.

D. NAILS, BOLTS, SCREWS, NUTS, ETC.- FOR EXTERIOR WORK SHALL BE CADIUM PLATED OR GALVANIZED.

E. HANDRAILS- FABRICATED AS DETAILED, WELDS GROUND SMOOTH.

F. SHOP PAINT-
1. EXPOSED STEEL COATED WITH ONE COAT SHOP COAT.
2. NON-EXPOSED STEEL COATED WITH ONE COAT SHOP COAT
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOPS COAT.
G. TESTS- PROVIDE MILL CERTIFICATES OR TEST ALL MEMBERS. WELDS SHALL BE INSPECTED AND/OR TESTED PER T-24 SECTION 2231A.5

SECTION 6A CARPENTRY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.

2. MATERIALS

LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 16" OF WEST COAST LUMBER INSPECTION BUREAU OR " GRADING RULES FOR WESTERN LUMBER, 3rd EDITION" OF WESTERN WOOD PRODUCTS ASSOCIATION. PLYWOOD GRADE MARKED IN ACCORDANCE WITH "PRODUCT STANDARD PS 1-95 FOR SOFTWOOD" OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH UBC STANDARD 25-9.

A. HEADERS- HEM FIR STUD GRADE OR BETTER.
B. PLATES- HEM FIR STUD GRADE OR BETTER.
C. BLOCKING- HEM FIR STUD GRADE OR BETTER
D. SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY OR EARTH- HEMLOCK FIR PRESSURE TREATED WITH WOLMAN SALTS, TANALITH U OR CHROMATE COPPER ARSENIC; GRADE- 2x4; NO. 2 GRADE - 2x6, CUT ENDS DIPPED IN PRESERVATIVE (CUPONAL).
E. PLYWOOD ROOF DECKING- APA C-D GRADE, GROUP 1, EXPOSURE 1 WITH EXTERIOR GLUE. ON OVERHANGS, C-C PLUGGED AND TOUCH SANDED.
F. PLYWOOD FLOOR DECKING- APA STURD-I-FLOOR 48" O.C. 1-1/8" TONGUE AND GROOVE FLOOR SHEATHING.
G. EXTERIOR SIDING/SHEATHING- APA TYPE 303, EXTERIOR, M.D.O. 8" O.C., SIDING. SHEATHING 1/2" CDX.
H. STUDS AND POSTS- HEM FIR STUD GRADE.
I. FASTENERS- ALL NAILS SHALL BE CORROSION RESISTANT PER UBC STANDARD 2304A.4.
J. BUILDING TRIM- 1x RESAWN SELECT H.F. OR MASONITE.
K. DOOR/WINDOW TRIM- 1x4 RESAWN H.F.

3. WORKMANSHIP

A. FRAMING- SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
B. NAILING- IN ACCORDANCE WITH TITLE 24 C.C.R.- TABLE 23-II-B-1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.
C. EXTERIOR WALLS- FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALLS AND STRUCTURAL MEMBERS PROVIDING WEATHERPROOF AND WATERTIGHT SEAL. NECESSARY CLOSURES, SEALS, FLASHING PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
D. MACHINE APPLIED NAILING- SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
E. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING.
F. RETIGHTEN ALL BOLTS BEFORE CLOSING IN.
G. THE DESIGN MOISTURE CONTENT OF LUMBER IS 19% OR LESS BEFORE FABRICATION, OTHER REVISION THRU CHANGE ORDER WILL BE REQUIRED.

SECTION 7B SHEET METAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS

A. SHEET METAL- STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A123. MINIMUM 26 GA.
B. SOLDER- OF STANDARD BRAND, GRADE A OF EQUAL PARTS LEAD AND TIN ASTM B32.
C. FLUX- ZINC SATURATED MURATIC ACID.

3. WORKMANSHIP

SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT.

SECTION 7J SEALANT

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL THE BUILDINGS.

2. MATERIALS

"VULKEM" SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL, TO BE USED @ ALL STANDING SEAM ROOFING DETAILS.

SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT, IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

SECTION 8B HOLLOW METAL DOORS & FRAMES

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS & FRAMES.

2. MATERIALS

A. DOORS- TYPE L FULL FLUSH INSULATED, MANUFACTURED BY 'STEELCRAFT' MANUFACTURING COMPANY OR APPROVED EQUAL, 18 GA. 1-3/4" THICK.
B. FRAMES- 16 GA. COLD ROLLED 2" FACES.

SECTION 8D FINISH HARDWARE

1. SCOPE OF WORK

CONTRACTOR SHALL SUPPLY AND INSTALL HARDWARE AS SPECIFIED AND AS REQUIRED.

2. DOOR SCHEDULE- SEE SHEET G-2

3. SPECIAL REQUIREMENTS

A. CLOSURE FOR EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 LBS.
B. DEADBOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.
C. HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISHED FLOOR.
D. ALL EXIT DOORS SHALL BE OPEN ABLE FROM INSIDE WITHOUT ANY EFFORT, SPECIAL TOOL, OR KNOWLEDGE.

SECTION 9E PAINTING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDINGS. ALL EXPOSED SURFACES OF BUILDING AND RAMP SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS.

2. MATERIALS

A. EXTERIOR WOOD- VISTA BRAND 4100 PRIMER, 6000 FINISH. (OR EQUAL)
B. INTERIOR TRIM- VISTA BRAND 7000 FINISH. (OR EQUAL)
C. METAL- VISTA BRAND 7000 FINISH. (OR EQUAL)

3. WORKMANSHIP

A. EXTERIOR- WOOD SIDING, TRIM AND SKIRTING- APPLY TWO COATS OF EXTERIOR FLAT ACRYLIC PAINT SPRAYED ON.
B. INTERIOR TRIM- TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF SEMIGLOSS LATEX OVER PRIMER.
C. METAL- ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER SHOP COAT.
D. RAMP- ONE COAT OF NON-SKID SURFACING.

SECTION 13F SITE ASSEMBLY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.

THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

2. ASSEMBLY OF ELEMENTS

A. IN A LOCATION AS DETERMINED BY THE SCHOOL DISTRICT, THE CONTRACTOR SHALL PLACE CONCRETE LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING.
C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 15A MECHANICAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITION SYSTEM AS SHOWN ON THE DRAWINGS INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.

2. EQUIPMENT- SEE A/C INFORMATION SCHEDULE FOR SIZE AND TYPE

3. WORKMANSHIP

UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

SECTION 16A ELECTRICAL

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT.

2. MATERIALS- ALL NEW COMPLYING WITH REQUIREMENTS OF CBC AND NFPA
A. ELECTRIC METALLIC TUBING- COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
B. PANELBOARDS- FLUSH MOUNTED WITH HINGED DOORS AND INDEXED CARD HOLDERS.
C. CONDUCTORS- COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE- #12.
D. RECEPTACLE- GENERAL ELECTRIC 5242-2 OR EQUAL, +18".
E. CLOCK RECEPTACLE- EAGLE OR EQUAL.
F. SWITCHES- GENERAL ELECTRIC 5901-2 OR EQUAL, +48".
G. 2'x4' FLOURESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DBL. BALLAST, MAGNETIC ENERGY EFFICIENT (3) 34 WATT T-12 TUBES WEIGHT 27 LBS.

3. WORKMANSHIP

MATERIAL AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS, PANEL BOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION.

NAILING SCHEDULE [1]

JOIST OR RAFTERS TO SIDES OF STUDS 8" JOIST OR LESS (3) 16d: FOR EACH ADDITION 4" IN DEPTH OF JOIST (1) 16d

BRIDGING TO JOIST, TOENAILS EACH END (2) 8d
A. BLOCKING BETWEEN JOIST OR RAFTERS TOENAILS EACH SIDE, EACH END (2) 10d[12]
B. BLOCKING BETWEEN STUDS, EA. END (2) 16d OR (2) 10d TOENAILS

SOLE PLATE TO JOIST OR BLOCKING FACE NAIL 16d AT 16" O/C

TOP PLATE TO STUD, END NAIL (2) 16d

STUD TO SOLE PLATE (4) 8d TOENAILS OR (2) 16d ENDNAIL

DOUBLE STUDS, FACE NAIL 16d AT 24" O/C

DOUBLE TOP PLATES, FACE NAIL 16d AT 16" O/C

DOUBLE TOP PLATES, LAP SPLICE (8) 16d

CONTINUOUS HEADER, TWO PIECES 16d AT 16" O/C ALONG EACH EDGE

CEILING JOIST TO PLATE, TOENAIL (3) 8d

CONTINUOUS HEADER TO STUD, TOENAIL (4) 8d

CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL (3) 16d

CEILING JOIST TO PARALLEL RAFTERS FACE NAIL (3) 16d

JOIST OR RAFTERS AT ALL BEARINGS, TOENAILS EACH SIDE (2) 10d

1" BRACE TO EA. STUD AND PLATE, FACE NAIL (2) 8d

BUILT UP CORNER STUDS 16d AT 24" O/C

PLYWOOD

SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING:[2]
1/2" OR LESS 6d[3]
19/32" - 3/4" 8d[4] OR 6d[5]
7/8" - 1" 8d[3]
1 1/8" - 1 1/4" 10d[4] OR 8d[5]

COMBINATION SUBFLOOR/UNDERLAYMENT TO FRAMING:
3/4" OR LESS 6d[5]
7/8" - 1" 8d[5]
1 1/8" - 1 1/4" 10d[4] OR 8d[5]

PANEL SIDING TO FRAMING:[2]
1/2" OR LESS 6d[6]
5/8" 8d[6]

FOOTNOTES

[1] COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.

[2] NAILS SPACED AT 6" O/C AT EDGES, 12" O/C AT INTERMEDIATE SUPPORTS EXCEPT 6" O/C AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING PLYWOOD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2315A.3.3 & 2315A.4. 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 REQ. OF SECTION 2304A.3.

[7] FASTENERS SPACED 3" O/C AT EXT. EDGES AND 6" O/C AT INTERMEDIATE SUPPORTS.

[8] CORROSION RESISTANT ROOFING NAILS WITH 7/16"ø HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304A.3.

[9] CORROSION RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304A.3.

[10] PANEL SUPPORTS AT 16". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

[11] PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

[12] WHEN POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOENAILS.

A. MATERIALS AND WORKMANSHIP:

ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED.

WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT.

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

B. GENERAL DESIGN REQUIREMENTS:

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH A METAL IDENTIFICATION TAG 3" x 1 1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

A. D.S.A. APPROVAL NUMBER
B. DESIGN WIND LOAD
C. DESIGN ROOF LIVE LOAD
D. DESIGN FLOOR LIVE LOAD
E. BUILDER'S NAME
F. PLANT INSPECTOR/ID MARK

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

EACH 12'-0" WIDE MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE, SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

C. FRAMING: ROOF, WALLS AND FLOOR:

FRAMING MEMBERS SHALL BE OF THE GRADE AND SIZE CALLED FOR ON THE STRUCTURAL PLANS.

D. MOISTURE BARRIER:

ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. SUCH BARRIER SHALL BE EQUAL TO THAT PROVIDED FOR IN THE U.B.C. STANDARD NO. 14.1 FOR KRAFT WATERPROOF FELT. BARRIER SHALL BE FREE FROM HOLES AND BREAKS OTHER THAN THOSE CREATED BY FASTENERS AND CONSTRUCTION SYSTEM DUE TO ATTACHING OF THE BUILDING PAPER.

E. ZBAR:

ALL HORIZONTAL JOINTS IN SIDING SHALL BE PROTECTED BY GALVANIZED "Z BAR- 3/4 x 5/8 x 3/4" FLASHING.

FLASHING NEED NOT BE USED WHERE SKIRTING MEETS THE UNDERSIDE OF AN EXPOSED METAL FRAME AND THE SKIRTING IS RECESSED SUFFICIENTLY TO PROTECT THE TOP EDGE OF PLYWOOD.

F. ROOF OVERHANG:

ALL OVERHANGS SHALL PRESENT A PLEASING AND FINISHED APPEARANCE. SOFFIT MATERIAL, WHEN USED, SHALL BE 3/8" MIN. EXTERIOR SIDING. PLYWOOD SOFFIT MATERIAL SHALL BE APPLIED WITH EXPOSED GRAIN RUNNING PARALLEL TO THE LENGTH OF THE BUILDING. SOFFIT SHALL BE NEATLY AND CLOSELY FITTED AND TRIMMED TO COVER GAPS. ALL ENCLOSED SOFFIT AREAS SHALL BE VENTILATED PER THE C.B.C.

G. ENTRY LANDING AND RAMP:

EACH MODULE SHALL HAVE A LANDING(s) AND RAMP(s) TO CONFORM TO TITLE 24, C.C.R. SECTION 1007. THE LANDING(s) AND RAMP(s) STRUCTURE INCLUDING HANDRAIL AND WHEEL GUIDES. PREFABRICATED METAL LANDINGS AND RAMPS SHALL BE BUILT IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE. THERE SHALL BE SUFFICIENT CROSS BRACING UNDER THE RAMP SURFACE TO PREVENT BOUNCE OR OIL CANNING OR THE RAMP SURFACE. DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE.

RAMP SHALL HAVE SKID RESISTANT METAL OR WOOD SURFACE.

H. ELECTRICAL MATERIALS:

ALL ELECTRICAL WIRING 110V AND GREATER SHALL BE IN CONDUIT SYSTEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF C.E.C. MINIMUM SIZE CONDUIT IS 1/2" MIN.

ACCEPTABLE CONDUIT:
RIGID ELECTRICAL METALLIC TUBING (EMT); GALVANIZED THIN WALL
FLEXIBLE (INTERIOR); GALVANIZED STEEL
FLEXIBLE (EXTERIOR); GALVANIZED STEEL WITH FACTORY APPLIED PVC

ALL CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND SHALL BE SECURED IN CONFORMANCE WITH C.E.C. FIELD BENDS SHALL BE AVOIDED WHEREVER POSSIBLE. WHERE BENDS MUST BE MADE, USE AN APPROPRIATE "HICKEY" OR BENDING MACHINE. REAM AND DEBUR ALL CONDUIT PRIOR TO INSTALLATION AND TERMINATE IN APPROPRIATE BUSHINGS OR CONNECTORS, JACKET. WIRING SHALL BE #14 MIN. COPPER TYPE TW, THW, THWN AS APPLICABLE. CONDUIT FILL SHALL NOT EXCEED REQUIREMENTS OF C.E.C. A SEPARATE GROUNDING CONDUCTOR SHALL BE PULLED THROUGHOUT THE ENTIRE SYSTEM. CARE SHALL BE TAKEN TO AVOID DAMAGE TO WIRE OR INSULATION DURING PULLING. POWDERED SOAPSTONE OR A PULLING COMPOUND SUCH AS "YELLOW 77" LUBRICANT MAY BE USED IF NECESSARY.

GENERAL NOTES:

A. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF CALIFORNIA BUILDING CODE; TITLE 24, PART 2,3,4,5,9 AND TITLE 24, PART 1, GROUP 1. A COPY OF THESE REGULATIONS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.

B. PLANS AND SPECIFICATIONS: CHANGES IN PLANS AND SPECIFICATIONS SHALL BE MADE BY THE ADDENDUM OR CHANGE ORDER, SIGNED BY THE ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE ANY RELATED WORK CAN BEGIN. CHANGE ORDERS SHALL ALSO BE SIGNED BY THE OWNER PRIOR TO APPROVAL BY DSA.

C. TESTING: TESTS OF MATERIALS SHALL BE BY A PERSON OR TESTING LABORATORY SELECTED BY THE OWNER WITH THE APPROVAL OF DSA AND ARCHITECT. THE OWNER SHALL BE RESPONSIBLE FOR THE COST OF TESTING, EXCEPT FOR THE RETESTING REQUIRED BY THE FAILURE OF ANY MATERIAL TO PASS.

D. ERECTION AT THE SITE: THE BUILDING SHALL BE TRANSPORTED, ERECTED AND SET ON FOUNDATION AS REQUIRED BY A LICENSED TRANSPORTER. ALL REQUIRED FINISH WORK SHALL BE COMPLETED BY SKILLED LABOR OF THE MANUFACTURER/CONTRACTOR, BUT WILL NOT INCLUDE UTILITIES SERVICE CONNECTION.

E. SITE WORK: THE OWNER, UNLESS OTHERWISE SHOWN ON THE APPROVED PLANS, WILL PROVIDE SITE(s) SATISFACTORY TO THE ARCHITECT OR ENGINEER FOR THE INSTALLATION OF THE RELOCATABLE BUILDING(s) THAT ARE LEVEL AND HAVE STABLE SOIL CONDITIONS WITH ADEQUATE SITE DRAINAGE, EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR. IF ADDITIONAL GRADING AND/OR LEVELING IS NECESSARY FOR PROPER INSTALLATION OF MODULAR UNITS, THE ADDITIONAL CHARGE WILL BE THE RESPONSIBILITY OF THE OWNER.

F. UTILITIES: THE OWNER WILL BE RESPONSIBLE FOR ANY AND ALL UTILITY, FIRE ALARM OR SPECIAL ELECTRICAL SIGNAL SYSTEM CONNECTIONS EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR.

G. FIRE EXTINGUISHER: UL2A-10BC, PRESSURE TYPE, MAX. 48" TO EXTINGUISHER HANDLE - SEE SPECIFICATION SHEET.

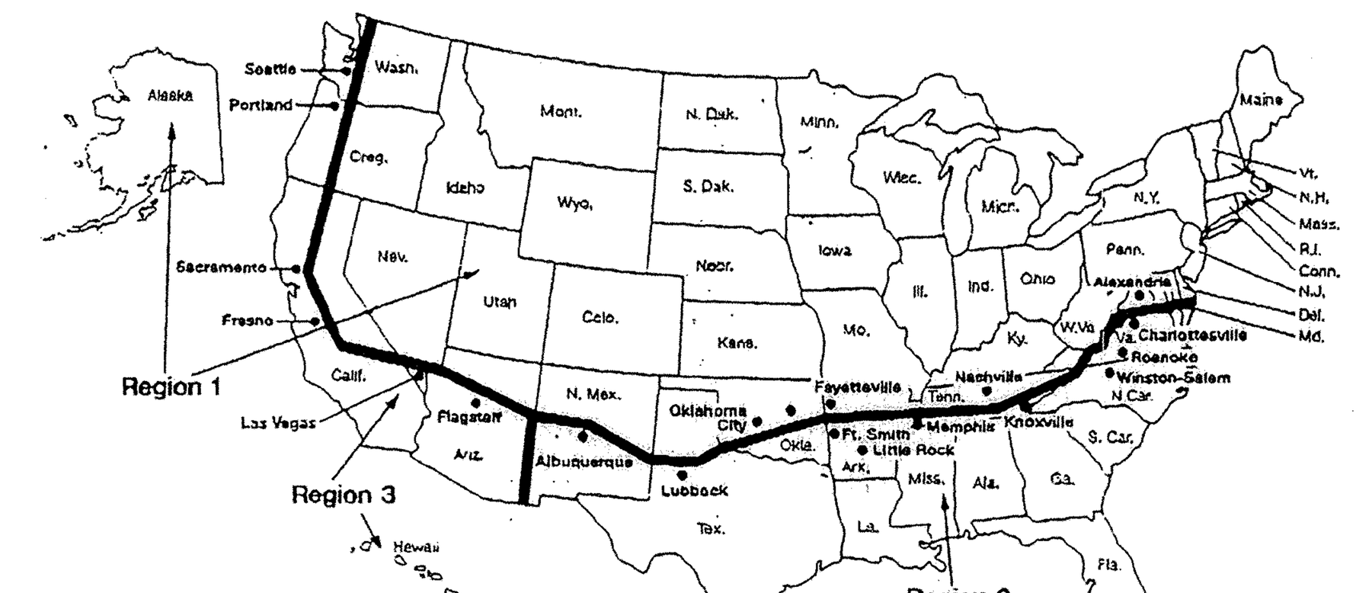
H. BUILDING INSULATION:
SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL. FLAME SPREAD -MAX. 25, SMOKE DEVELOP -MAX. 450 CBC SEC. 1510. SEE SPECIFICATION SHEET.

I. T-GRID CEILING:
SUSPENDED T-BAR SYSTEM WITH LAY-IN PANELS
FLAME SPREAD - MAX. 0-25, SMOKE DEVELOP - MAX. 450
SEE SPECIFICATION SHEET.

J. FIRE ALARM SYSTEM: - SEE SPECIFICATION SHEET
1. "THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE SECTION 305.9, AND CALIFORNIA ELECTRIC CODE ARTICLE 760, CALIFORNIA FIRE CODE, ARTICLE 10."
2. INSTALLATION OF THE FIRE PROTECTIVE SIGNALING SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBER FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
4. ALARMS- SECTION 1006.2.4, CALIFORNIA FIRE CODE.
IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
(A) LOCATE PER CFC 1006.2.4

K. GROUNDING OF BUILDING COMPONENTS
1. THE OWNER, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMANTS, SHALL RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE BUILDING ELECTRICAL SYSTEM PER CEC 250-50, 250-52 AND 250-56.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE METAL PORTION BUILDING COMPONENTS (METAL FRAMED STEEL RAMP, ETC.) TO MEET THE REQUIREMENTS OF IR NO 16-1, ISSUED BY D.S.A.
3. THE PROJECT INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING TESTS.

L. MECHANICAL
1. FACTORY-MADE AIR DUCTS. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. STANDARD NO. 10-1. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDNETIFICATION INDICATING COMPLIANCE WITH C.M.C STANDARD NO. 10-1 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING.
2. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.
3. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPMENT RATING OF NOT MORE THAN 50.
4. AIR FILTERS. AIR FILTERS SHALL BE LISTED UNITS PER U.F.C. STANDARD NO. 9-6. AIR FILTERS SHALL COMPLY WITH ALL REQUIREMENTS OF STATE STANDARD NO. 12-71-1.
5. PIPE AND TUBING. INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD-RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC SECTION 707.2



RECEIVED
JUL 24 2003
WESTERN DIVISION

DATE SIGNED
JUL 15 2003

REGISTERED PROFESSIONAL ENGINEER
JAMES T. S[illegible]
No. 3602
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

ARCHITECT STAMP

DATE SIGNED
MAY 21 2003

REGISTERED PROFESSIONAL ENGINEER
JAMES T. S[illegible]
STRUCTURAL
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 103453
AC FLS SS
DATE JUL 17 2003

STATE AGENCY STAMP

PC
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
AC FLS SS
DATE: 5-30-03

STATE AGENCY STAMP

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT
MODULAR CLASSROOM BUILDING

TITLE
GENERAL NOTES & SPECIFICATIONS

JOB #	
DATE	12-1-02
DRAWN BY	RDL
SCALE	AS NOTED
APPROVED	
REVISIONS	

SHEET NO.
G-1

CONSTRUCTION NOTES & MATERIALS:

CHASSIS CONSTRUCTION: CHECK ONE
BOX SIZE: 12'x40'
FRAME: PERIMETER
MAIN RAIL/SIZE: 7"x9.8# C-CHANNEL @ PLYWOOD FLOOR ☒ OR 10"x15.3# C-CHANNEL @ CONCRETE FLOOR ☐
No. OF AXLES: —
REFERENCE DETAIL SHEET: —
MISC: —

FLOOR FRAMING: CHECK ONE
FLOOR LOAD: 50 PSF ☒ 50+20 PSF ☐ 100 PSF ☐ 125 PSF ☐
JOIST SIZE & GRADE: 7"x11 GA. Z-MEMBER @ PLYWOOD FLOOR ☐ OR 6"x8.2 C-CHANNEL @ CONCRETE FLOOR ☐
JOIST SPACING: SEE CHART ON FLOOR FRAMING PLAN 48" O.C.
INSULATION: R-11 UNFACED ☒ OR R-19 UNFACED ☐
BOTTOM ENCLOSURE: CANVEX CW-600
FLOOR DECK: PLYWOOD DECKING ☒ OR LIGHTWEIGHT CONCRETE ☐
REFERENCE DETAIL SHEET: —
MISC.: —

EXTERIOR WALLS WOOD STUD OPTION: CHECK ONE ☐ USED ☒ NOT USED
WIND LOAD: 85 MPH EXP. C ☐ OR 90 MPH EXP. C ☐
STUD SIZE & GRADE: 2"x4" H.F. #2 ☐ OR 2"x6" H.F. #2 ☐
SPACING: 16" O.C.
SIDE WALL HEIGHT: 9'-0"
INSULATION: R-13 UNFACED ☐ OR R-19 UNFACED ☐
FIRE RESISTIVE CONSTRUCTION: —
REFERENCE DETAIL SHEET: —
MISC: —

EXTERIOR WALLS STEEL STUD OPTION: CHECK ONE ☐ USED ☐ NOT USED
WIND LOAD: 80 MPH EXP. C ☒ OR 90 MPH EXP. C ☐
STUD SIZE & GRADE: 3 1/2" x 20 GAUGE ☒ OR 5 1/2" x 20 GAUGE ☐
SPACING: 16" O.C.
SIDE WALL HEIGHT: 9'-0"
INSULATION: R-13 UNFACED ☒ OR R-19 UNFACED ☐
FIRE RESISTIVE CONSTRUCTION: —
REFERENCE DETAIL SHEET: —
MISC: —

EXTERIOR WALL SIDING: CHECK ONE
5/8" THK. DURATEMP APA RATED GROOVED @ 8" O.C. ☒
1/2" CDX PLYWOOD W/ STUCCO ON-SITE ☐
REFERENCE DETAIL SHEET: FOR STUCCO SIDING SEE DETAILS #16 & #17 SHEET G-4
MISC.: I.C.B.O.# FOR DURATEMP SIDING (ER-4856)

INTERIOR WALLS: CHECK ONE
STUD SIZE & GRADE: 2"x4" H.F. #2 ☐ OR 3 1/2"x20 GAUGE STEEL STUDS ☐
STUD SPACING: 16" O.C.
PARTITION HEIGHT: TO RAFTERS ☐ OR BELOW RAFTERS ☐
INSULATION: YES ☐ OR NO ☐
FIRE RESISTIVE CONSTRUCTION: —
REFERENCE DETAIL SHEET: —
MISC.: —

ROOF DETAILS:
TYPE OF DRAIN SYSTEM: 26 GA. GUTTERS AND DOWN SPOUTS
REFERENCE DETAIL SHEET: —
MISC.:

ROOF FRAMING: CHECK ONE
ROOF LOAD: 20 PSF ☒ OR 30 PSF ☐
RAFTER SIZE/GRADE: 6"x2"x14 GA. Z-MEMBER ☒ OR 7"x1 1/2"x11 GA. Z-MEMBER ☐
RAFTER SPACING: 48" O.C.
INSULATION: R-19 UNFACED ☒ OR R-30 UNFACED
FINISH ROOFING: 22 GAUGE GALV. STANDING SEAM ROOF ☒
26 GAUGE GALV. STANDING SEAM ROOF ☐
BUILT-UP 3-PLY ROOFING ☐ EPDM W/ 1/4" DENSDECK UNDERLAYMENT ☐
ROOF SHEATHING: 3/4" C-D PLYWOOD @ NON 22 GAUGE ROOFING
ROOF SLOPE: 1/4" PER 12" DOUBLE SLOPE
REFERENCE DETAIL SHEETS: —
DRAFT STOP CONSTRUCTION: —
ROOF MOUNT HVAC: CHECK ONE ☐ YES ☒ NO
MISC:

STEEL COLUMNS: CHECK ONE
CORNER COLUMNS: 3 1/2"x3 1/2"x1/4" ☒ OR 4"x4"x1/4" ☐
MIDSPAN COLUMN @ SIDEWALL: N.A.
STEEL POST HEIGHT: 9'-0"
REFERENCE DETAIL SHEET:
MISC: (NOTE: THE STEEL POST HEIGHT IS FROM TOP OF FLOOR TO BTM. OF SIDEWALL BEAM/HEADER.)

TRUSS TYPE 20 PSF ROOF LOAD: ☒ YES OR ☐ NO
SIDEWALL BEAM TYPE: 18/23/18x3 1/2"x10 GA. CHANNEL @ DOUBLE SLOPE OR ~~18/28x3 1/2"x10 GA. CHANNEL @ SINGLE SLOPE~~
ENDWALL HEADER: 18 x 3 1/2" x 12 GA. CHANNEL @ DOUBLE SLOPE AND ~~18 x 28" x 3 1/2" x 12 GA. CHANNEL @ HIGH SIDE OF SINGLE SLOPE~~
TRUSS CONFIGURATION @ MODLINE: DOUBLE SLOPE ☒ OR SINGLE SLOPE ☐
TOP CHORD: L 3"x3"x3/8"
BOTTOM CHORD: L 3"x3"x3/8"
WEBS: L 2"x2"x3/16" @ 1ST TWO BAYS, L 1 1/2"x1 1/2"x3/16" @ ALL OTHERS
OVERHANGS: 5'-0" @ FRONT & 2'-0" @ REAR
OVERHANG MATERIAL: L 4"x3"x3/8" ☒ OR 10"x3"x12 GAUGE C-CHANNEL ☐
SOFFITS: OPEN SOFFITS ☒ OR CLOSED SOFFITS ☐
REFERENCE DETAIL SHEET:
MISC:

TRUSS TYPE 30 PSF ROOF LOAD: ☐ YES OR ☒ NO
TRUSS CONFIGURATION: DOUBLE SLOPE ☐ OR SINGLE SLOPE ☐
SIDEWALL BEAM TYPE: 18/23/18x3 1/2"x10 GA. CHANNEL @ DOUBLE SLOPE OR 18/28x3 1/2"x10 GA. CHANNEL @ SINGLE SLOPE
ENDWALL HEADER: 18"x3 1/2"x12 GA. CHANNEL @ DOUBLE SLOPE AND 18"x28"x3 1/2"x12 GA. CHANNEL @ HIGH SIDE OF SINGLE SLOPE
TRUSS TOP CHORD: L 4"x3"x3/8"
TRUSS BOTTOM CHORD: L 4"x3"x3/8"
TRUSS WEBS: L 2"x2"x3/16" @ 1ST TWO BAYS, L 1 1/2"x1 1/2"x3/16" @ ALL OTHERS
OVERHANGS: 5'-0" @ FRONT & 2'-0" @ REAR
OVERHANG MATERIAL: L 5"x3"x3/8" ☐ OR 10"x3"x12 GAUGE C-CHANNEL ☐
SOFFITS: OPEN SOFFITS ☐ OR CLOSED SOFFITS ☐
REFERENCE DETAIL SHEET:
MISC:

SITE CONDITIONS: CHECK ONE
FOUNDATION TYPE: WOOD PAD ☒ OR CONCRETE ☐
FLASHING REQUIRED: CONCRETE FLUSH W/ GRADE ☐ OR CONCRETE ABOVE W/ GRADE ☐
RAMP & LANDING: SEE FLOOR PLAN FOR RAMP AND LANDING
SKIRTING REQUIRED: YES ☒ OR NO ☐ ROUGH SAWN T-1-11 UNGROOVED
FIXTURE MOUNTING HEIGHTS: ADULT HEIGHT ☐ ELEMENTARY ☐ KIDDIE ☐
MISC:

ON-SITE SCOPE OF WORK:
1. ALL UNDER FLOOR PLUMBING FURINISHED AND INSTALLED ON-SITE.
2.
3.
4.
5.

VARIABLE MATERIAL SPECIFICATIONS:

ROOFING:
FIRE RATED PER UBC STANDARD 15-2 CLASS 'A'
BASE SHEET FINISHED GRADE 25-30# ASPHALT COATED

MULE-HIDE EPDM MEMBRANE ROOFING SYSTEM:
(ETHYLENE-PROPYLENE-DIENE TERPOLYMER MEMBRANE) ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED, COMBUSTIBLE OR NON-COMBUSTIBLE DECKS. CLASS 'A'. THE EPDM MEMBRANES ARE SYNTHETIC RUBBER SINGLE-PLY SHEETS HAVING A MIN. NOMINAL THICKNESS OF 45 MILS (1.1 MM). INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS. (I.C.B.O.# ER-5867)
1/4" DENS-DECK ROOF BOARD:
USED AS A UNDERLAYMENT FOR THE EPDM MEMBRANE ROOFING SYSTEM. FLAME SPREAD: 0, SMOKE DEVELOPED: 0 PER, ASTM E 84. INSTALL PER ROOFING MANUFACTURER INSTALLATION INSTRUCTIONS.

WINDOWS:
HORIZONTAL SLIDING , 50% VENTING, ANODIZED ALUMINUM FRAME. PERFORMANCE RATED PER AAMA GS101-88 FOR COMMERCIAL USE AND MEDIUM EXPOSURE, NAIL-ON FIN FASTENED DIRECTLY TO FRAMING AND BEHIND SIDING MATERIAL, REMOVABLE SCREEN AT VENT SASHES. LAMINATED OR TEMPERED GLAZING TO BE NOTED ON FLOOR PLAN. DUAL GLAZED WINDOWS TO HAVE MINIMUM 1/4" AIR SPACE AND 1/8" GLASS (SEE WINDOW SCHEDULE FOR SIZES)

INTERIOR WALL COVERINGS:
APPLIED OVER MINIMUM 1/2" GYPSUM BOARD, OR MINIMUM 3/8" (*)ORIENTED STRAND BOARD. EXPOSED SURFACES FIRE RATED PER ASTM E-84, FLAME SPREAD MAXIMUM 200, SMOKE DEVELOPED MAXIMUM 450. (*PROVIDE FIRE BLOCKING WHEN 3/8" OSB IS USED AS BACKING MATERIAL)
TACKBOARD: VINYL WALL COVERING TO BE CLASS I DOMTAR GYPSUM OR EQUAL, LAMINATED ONTO 1/2" INDUSTRIAL INSULATION BOARD, 4'-0"x9'-0", LONG EDGES BEVELED.
FLAME SPREAD = 65
SMOKE DENSITY = 175

FRP: FIBERGLASS REINFORCED PLASTIC PANELS, 4'-0"x8'-0", WITH COLOR MATCHED PVC MOLDINGS OVER 1/2 GYPSUM
FLAME SPREAD AND SMOKE DEVELOPMENT, CLASS C PER ASTM-E84
SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD NOT TO EXCEED 200
CEILING TYPE:
SUSPENDED SYSTEM, PERFORMANCE RATED ASTM C635 HEAVY DUTY
ACOUSTIC LAY-IN CEILING PANELS:
LIGHT REFLECTIVE LR-1, FIRE RATED CLASS-A PER ASTM E84.
VINYL FACED FIBERGLASS, 5/8" THICK, ARMSTRONG OR EQUIV.
CLASS A: FLAME SPREAD 25 (UL LABELED) PER ASTM E 1264
SMOKE DENSITY NOT TO EXCEED 450.
CARPET:
DIRECT GLUE-DOWN, PERFORMANCE RATED PER STATE OF CALIFORNIA SPECIFICATION 7290-21L-01. (GROUP I, TYPE A, CLASS 24) 4600 MIN. DENSITY. THE CARPET IS TO HAVE A MINIMUM CRITICAL FLUX OF .25 WATT/CM .

VINYL SHEET FLOORING:
MINIMUM WEAR LAYER .050" THICK, PERFORMANCE RATED PER ASTM F1303-90 TYPE-II, GRADE-1, CLASS-A, AND ASTM F970 125PSI, FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-I, AND ASTM E662 SMOKE DENSITY MAX. 450. MIN. COEFFICIENT OF FRICTION TO BE 0.5 PER ASTM D2047

VINYL COMPOSITION TILE:
12" SQUARE, MINIMUM 1/8" THICK, PERFORMANCE RATED PER ASTM F1066, COMP-1, CLASS-2, AND ASTM F970 75PSI, FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-1, AND ASTM E662 SMOKE DENSITY MAX. 450. MIN. COEFFICIENT OF FRICTION TO BE 0.5 PER ASTM D2047

TOP SET BASE:
BURKE MOLDED RUBBER 1/8" THICK, 4" HEIGHT, COVE STYLE #502-P, OR EQUIV.

MARKER BOARDS:
1/2" PARTICLE BOARD SUBSTRATE, FULL WIDTH MAP RAIL W/ CORK INSERT AND SIX MAP HOOKS, EXTRUDED ALUMINUM MOLDING WITH FLAG HOLDER.

NOTE:
ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 7 & 8. CFC AND TITLE 19 CCR

INTERIOR FINISH SCHEDULE

ROOM	FLOOR: (BY OTHERS)	FLOOR: SHEET VINYL	BASE: (BY OTHERS)	BASE: 5" SELF COVE	WALLS: 1/2" VINYL WRAP TACK. BD. OVER 1/2" GYP BD.	WALLS: F.R.P. OVER 1/2" M.R. GYP. BD.	CEILING: ACOUSTICAL TILE IN HEAVY DUTY GRID @ 8'-6"	CEILING: ACOUSTICAL TILE IN HEAVY DUTY GRID @ 9'-0"
CLASSROOMS	●		●		●		●	
RESTROOMS		●		●		●		●

NOTE:
FINISH WALL COVERING & FINISH CEILING SHALL BE FLAME SPREAD CLASS 1

WINDOW SCHEDULE

	ROUGH OPENING WIDTH x HEIGHT		WINDOW SIZE	TYPE	FRAME	SCREEN	GLAZING	MANUFACTURE/SERIES/DESCRIPTION
A	VERIFY	VERIFY	8'-0"x4'-0"	XOX	CLEAR ANODIZED ALUM. FRAME	YES	46% GREY TINT	DUAL GLAZE, HORIZONTAL SLIDER, ALUMINUM FRAMED SCREENS
B								
C								

DOOR SCHEDULE

SYM.	WIDTH	HEIGHT	THK.	TYPE	FIRE RATING	FRAME	GLAZING	REMARKS
1	3'-0"	6'-8"	1 3/4"	HOLLOW METAL	-	16 GA. METAL		18 GA. HOLLOW METAL DOOR
2	3'-0"	6'-8"	1 3/4"	SOLID CORE	-	TIMELY		~~PREFINISHED INTERIOR LEGACY DOOR & FRAME~~
3								
4								

HARDWARE GROUP 1

QTY.	DESCRIPTION	PART NO.
3	HINGES	HAGAR BB1191 4.5"x4.5" NRP
1	LOCKSET, LEVER HANDLE	SCHLAGE D75PD RHODES, 26D FINISH
1	CLOSER, 5 LBS CLOSING PRESSURE	NORTON 1601
1	THRESHOLD	PEMCO 271A
1	DOOR BOTTOM	PEMCO 216AV
1	WEATHERSTRIP	PEMCO 279PAV
1	DOOR STOP	QUALITY 431

~~HARDWARE GROUP 2~~

QTY.	DESCRIPTION	PART NO.
3	HINGES	HAGAR RC1749 4.0"x4.0" L2
1	PRIVACY LEVER	SCHLAGE D40S RHODES, 26D FINISH

~~HARDWARE GROUP 3~~

QTY.	DESCRIPTION	PART NO.
3	HINGES	HAGAR BB1191 4.5"x4.5" NRP
1	PANIC HARDWARE	VON DUPRIN SERIES 22 EXIT DEVICE
1	CLOSER, 5 LBS CLOSING PRESSURE	NORTON 1601
1	THRESHOLD	PEMCO 271A
1	DOOR BOTTOM	PEMCO 216AV
1	WEATHERSTRIP	PEMCO 279PAV
1	DOOR STOP	QUALITY 431
1	EXTERIOR TRIM, LEVER HANDLE	VON DUPRIN 230

HARDWARE GROUP 4

QTY.	DESCRIPTION	PART NO.
3	HINGES	HAGAR RC1749 4.0"x4.0" L2
1	PASSAGE LEVER	SCHLAGE D10S RHODES, 26D FINISH

NOTE:
PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, CBC 1007.3.10

DATE SIGNED JUL 15 2003

REGISTERED PROFESSIONAL ENGINEER SCOTT A. CARLSON No. 36012 STRUCTURAL CIVIL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

RECEIVED JUL 24 2003 WESTERN DIVISION

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

ARCHITECT STAMP

DATE SIGNED MAY 7 2003

REGISTERED PROFESSIONAL ENGINEER SCOTT A. CARLSON No. 36012 CIVIL STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004
STRUCTURAL ENGINEER STAMP

STATE AGENCY STAMP

STATE AGENCY STAMP

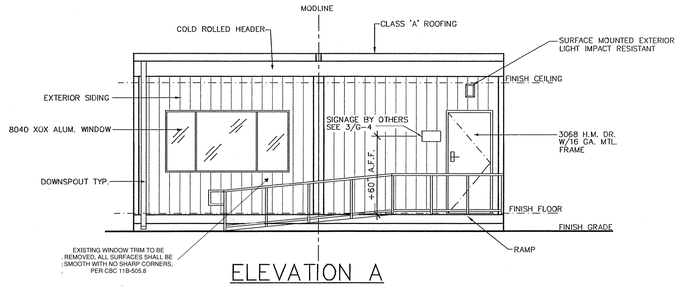
PROJECT
MODULAR CLASSROOM BUILDING

TITLE
BUILDING SPECIFICATIONS, CONSTRUCTION NOTES & SCHEDULES

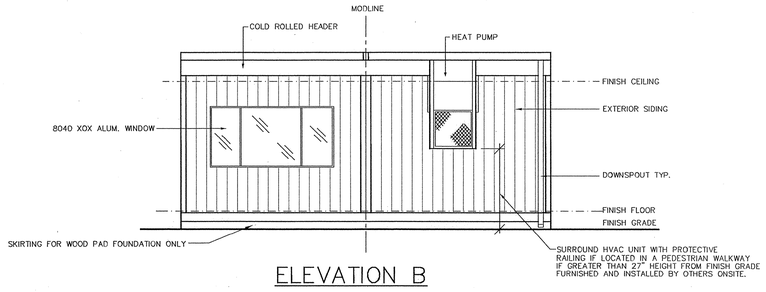
JOB #

DATE 12-1-02
DRAWN BY R.D.L.
SCALE AS NOTED
APPROVED
REVISIONS

SHEET NO.
G-2



ELEVATION A



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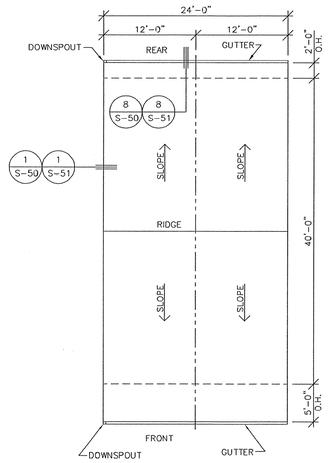


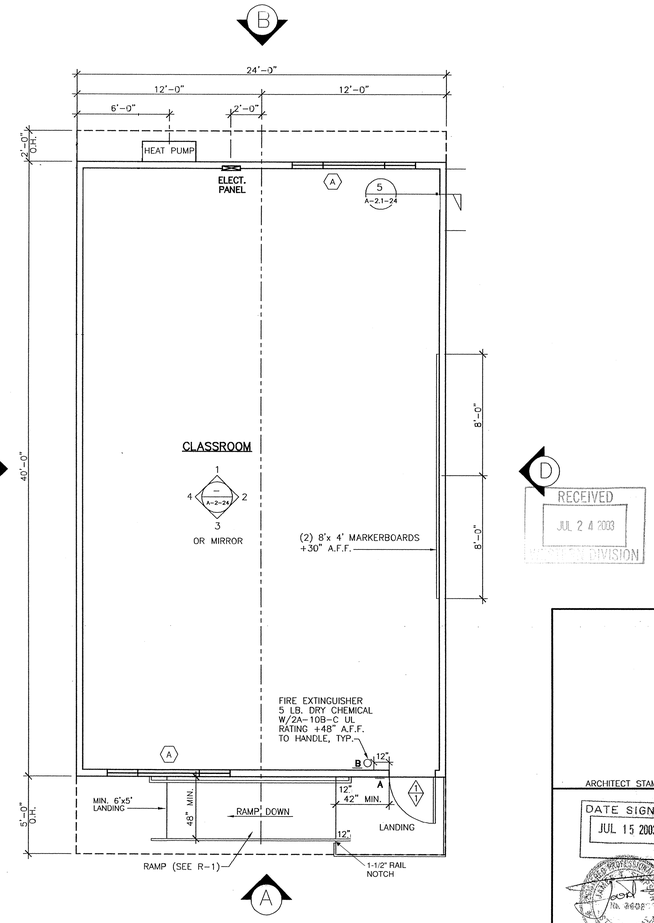
DUAL PITCH ROOF PLAN

SEE SHEET G-2 FOR ROOFING MATERIALS

NOTE:
BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A C.B.C. – CLASS 'A'

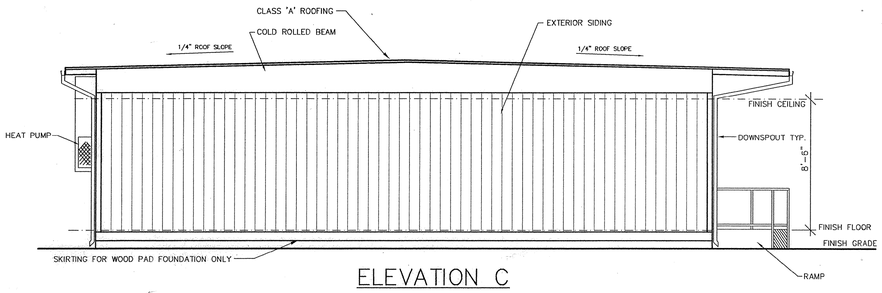
NOTE:
PROVIDE FIRE BLOCKING PER C.B.C. 708

NOTE:
FLOOR PLAN SHOWN IS 'B' BUILDING
'A' BUILDING IS OPPOSITE HANDED

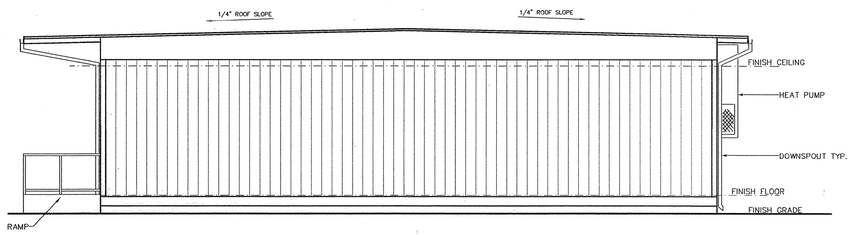


FLOOR PLAN #2

1/4"=1'-0"



ELEVATION C



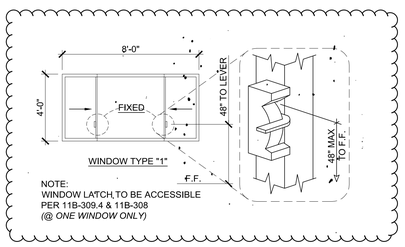
ELEVATION D

LEGEND

- INDICATES DOOR TYPE, SEE SHEET G-2
- INDICATES HARDWARE TYPE, SEE SHEET G-2
- (A) INDICATES WINDOW TYPE– SEE SHEET G-2
- DETAIL #
  SHEET #

SIGNAGE LEGEND:

REFER TO ARCHITECTURAL SET FOR SIGNAGE REQUIREMENTS - ALL SIGNAGE PROVIDED BY DISTRICT (OTHERS).



NOTES:

1. MANUFACTURER SHALL MECHANICALLY ATTACH METAL TAG TO EXTERIOR OF BUILDING SHOWING DSA APPLICATION NUMBER, MANUFACTURERS NAME, UNIT SERIAL NUMBER, DESIGN LIVE LOADS FOR FLOOR AND ROOF, AND THE DESIGN WIND LOAD.
2. WALL AND CEILING FINISHES SHALL BE MIN. CLASS I MATERIAL
3. FIBERGLAS INSULATION SHALL HAVE THE FOLLOWING:
   FLAME SPREAD 0–25
   SMOKE DEVELOPED, FUEL CONTRIBUTED 0–450
4. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON SHEET CS PROVIDED AND INSTALLED BY OTHERS ONSITE.
5. ANY ROOM HAVING AN OCCUPANT LOAD OF 50 OR MORE WHERE FIXED SEATS ARE NOT INSTALLED, AND WHICH IS USED FOR CLASSROOM, ASSEMBLY, DINING OR SIMILAR PURPOSE SHALL HAVE THE CAPACITY OF THE ROOM POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OF THE ROOM. POSTING SHALL BE BY MEANS OF A DURABLE SIGN HAVING CONTRASTING COLOR FROM THE BACKGROUND TO WHICH IT IS ATTACHED.
6. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

ARCHITECT STAMP

DATE SIGNED
JUL 15 2003

STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPROVED REGULATION SECTIONS
04 105453
DATE JUL 3 2003

STATE AGENCY STAMP

STATE AGENCY STAMP

PROJECT
24'x40' MODULAR CLASSROOM BUILDING

TITLE
24'x40' FLOOR PLAN, EXTERIOR ELEVATIONS & ROOF PLAN (DUAL PITCH ROOF)

JOB # 03-1014

DATE 7/11/03

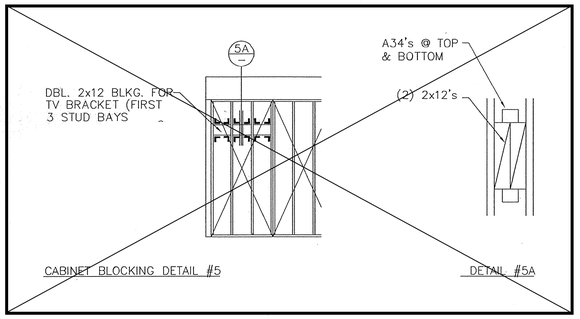
DRAWN BY JAG

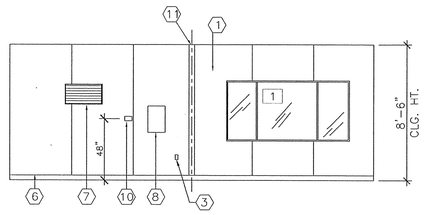
SCALE 1/4"=1'-0"

APPROVED

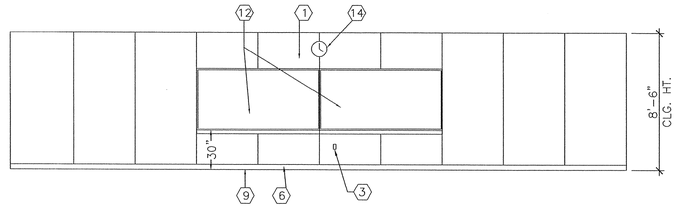
REVISIONS

SHEET NO.
A-1.1-24

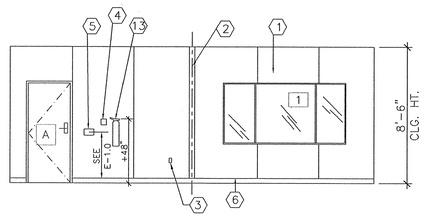




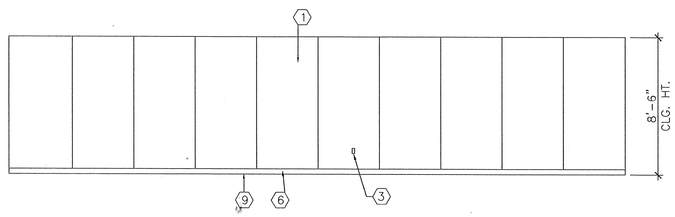
INTERIOR ELEVATION #1
SCALE: 1/4"=1'-0"



INTERIOR ELEVATION #2
SCALE: 1/4"=1'-0"



INTERIOR ELEVATION #3
SCALE: 1/4"=1'-0"



INTERIOR ELEVATION #4
SCALE: 1/4"=1'-0"

KEYNOTES:

- A EXTERIOR DOOR
- 1 EXTERIOR WINDOW
- 1 TYPICAL INTERIOR FINISH
- 2 CLOSURE AT MODULAR JOINT
- 3 DUPLEX WALL RECEPTACLE +18" A.F.F. (SEE POWER PLAN)
- 4 FIRE ALARM PULL STATION (SEE POWER PLAN)
- 5 LIGHT SWITCH (SEE LIGHTING PLAN)
- 6 TOP SET BASE (TYPICAL) SEE FINISH SCHEDULE
- 7 RETURN AIR GRILL
- 8 ELECTRICAL PANEL
- 9 FINISH FLOOR
- 10 THERMOSTAT SEE MECHANICAL PLAN
- 11 MODULAR JOINT
- 12 (2) 8'-0" x 4'-0" MARKERBOARD
- 13 FIRE EXTINGUISHER
- 14 12" DIA. ELECTRIC CLOCK (SEE ELECTRICAL POWER PLAN)

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MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

ARCHITECT STAMP
DATE SIGNED
JUL 15 2003

STRUCTURAL ENGINEER STAMP
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STATE AGENCY STAMP
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 108459
AC ☐ FLS ☐
DATE JUL 17 2003

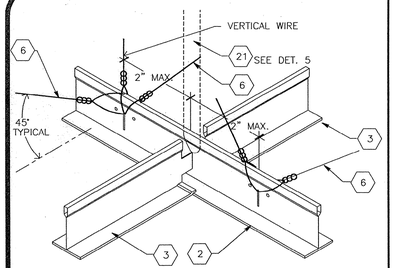
STATE AGENCY STAMP

PROJECT
24'x40' MODULAR CLASSROOM BUILDING

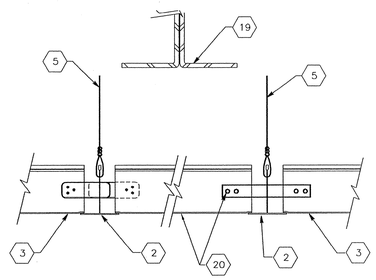
TITLE
24'x40' INTERIOR ELEVATIONS

JOB # 03-1014
DATE 7/11/03
DRAWN BY JAG
SCALE 1/4"=1'-0"
APPROVED
REVISIONS

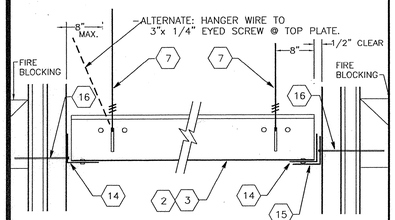
SHEET NO.
A-2.1-24



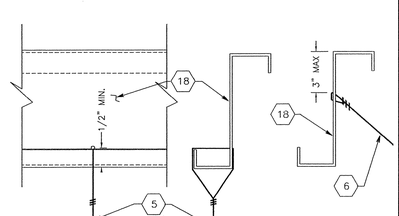
1 SPLAY WIRE



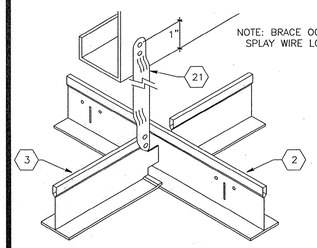
2 GRID AT MODLINE



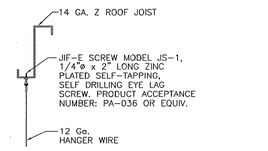
3 GRID AT WALL



4 WIRE ATTACHMENT

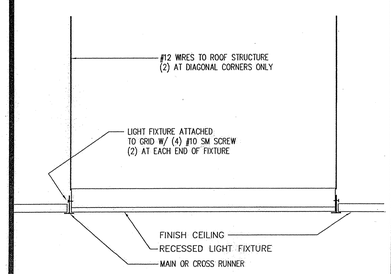


5 VERTICAL BRACE

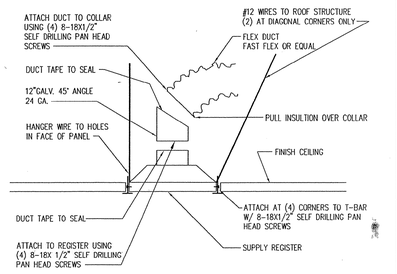


HANGER WIRE TO ROOF

6 ALTERNATE WIRE ATTACHMENT



7 LIGHTING FIXTURE DETAIL



8 REGISTER BOX DETAIL

KEY NOTES

1 MAIN RUNNERS @ 4'-0" O.C. WITH HANGER WIRES SPACED @ 4'-0" O.C. MAX.

2 MAIN RUNNER: DONN CORP. DX-26 HEAVY DUTY

3 CROSS RUNNER: DONN CORP. DXO-424 HEAVY DUTY

4 WALL RUNNER: DONN CORP. M7-EV

5 TYPICAL HANGER WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (3) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4

6 TYPICAL SPLAY WIRE TO BE 12 Ga. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (4) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4

7 AT END OF ROWS OF RUNNERS, A HANGER WIRE SHALL BE ATTACHED WITHIN 8" (OF ANY WALL OR SOFFIT.) OR 1/4 LENGTH OF END TEE WHICHEVER IS LEAST

8 VERTICAL WIRES MORE THAN 1:6 OUT OF PLUMB SHALL HAVE COUNTERBALANCE WIRES INSTALLED. ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. A 1/2" CLEARANCE BETWEEN END OF RUNNER AND FACE OF WALL. WIRES INSTALLED AS INDICATED ON PLAN. SPLAY WIRES SHALL BE TAUT BUT NOT DISTORTED.

9 RUNNERS MAY BE ATTACHED TO WALL MOLDING AT (2) ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. WHERE THERE IS NO ATTACHMENT THERE SHALL BE A 1/2" CLEARANCE BETWEEN END RUNNER AND FACE OF WALL.

10 CEILING AREAS EVERY 144 SQ. FT. OR LESS SHALL HAVE SPLAY WIRES INSTALLED AS INDICATED ON CEILING PLAN. SPLAY WIRES SHALL BE TAUT BUT SHALL NOT DISTORT GRID.

11 ELECTRICIAN SHALL PROVIDE (2) SLACK HANGER WIRES AT OPPOSITE CORNERS OF ALL LIGHT FIXTURES. WIRES SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5. LIGHT FIXTURES SHALL BE ATTACHED TO CEILING GRID WITH (1) #8 SHEET METAL SCREW @ EACH CORNER.

12 DUCTWORK, IF REQUIRED, SHALL BE RIGIDLY ATTACHED TO STRUCTURE ABOVE AT INTERVALS NOT TO EXCEED 4'-0" AND SHALL NOT BE CLOSER THAN 6" TO ANY WIRE.

13 CEILING REGISTERS, WHEN INDICATED ON PLANS, SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5.

14 CONT. WALL ANGLE WITH POP RIVET TO EACH MEMBER.

15 CONTINUOUS WALL ANGLE.

16 6d NAIL @ 16" O.C. INTO BLOCK OR STUD.

17

18 ROOF JOIST

19 ROOF BEAM

20 CLOSE OFF CROSS TEE- INSERT ONE END OF CROSS TEE INTO MAIN RUNNER WITH BAYONET. CUT OPPOSITE END TO FIT (IF LESS THAN 24"). INSERT MIN. 20 ga. MTL. STRAP THRU MAIN RUNNER, SECURE TO CROSS TEE W/ (2) #8 TEK SCREWS AT EACH END.

21 VERTICAL BRACE- 1/2" STEEL EMT AT SPLAY WIRE LOCATIONS. (MAX. HT. OF 4'-0") DRILL 1/8" HOLE THRU CONDUIT AT TOP & BOTTOM. ATTACH CONDUIT TO JOIST ABOVE OR TO BLOCKING W/ (2) #12 SCREWS @ TOP & BOTTOM.

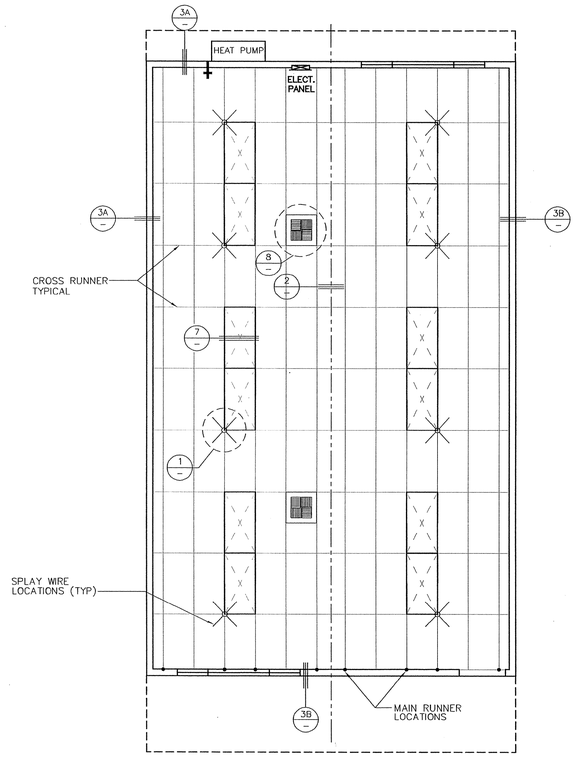
LEGEND

SUPPLY AIR DIFFUSERS

2'x 4' FLUORESCENT DROP-IN FIXTURE

4-WAY SPLAY WIRE SYSTEM

EXHAUST FAN



REFLECTED CEILING PLAN

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

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA. 92507
PHONE: (909) 788-3535 FAX: (909) 788-1523

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PROJECT: 24'x40' MODULAR CLASSROOM BUILDING

TITLE: 24'x40' REFLECTED CEILING PLAN

JOB # 03-1014

DATE 7/11/03

DRAWN BY JAG

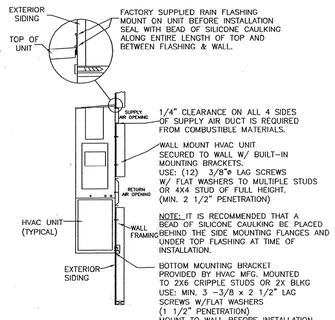
SCALE 1/4"=1'-0"

APPROVED

REVISIONS

SHEET NO.
A-3.1-24

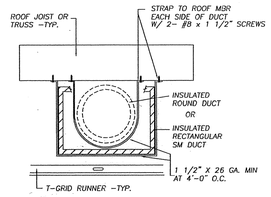
SIZE OF SUPPLY AND RETURN AIR OPENINGS AS PER MFG.'S SPECS ACCORDING TO SIZE OF HVAC UNIT



AIR FILTER: SEE GEN. NOTES ON ARCH'L SHEET OF PLANS

HVAC MOUNTING

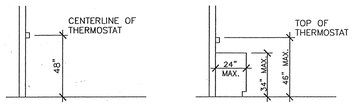
SCALE: 3/8" = 1'-0"



FACTORY-MADE AIR DUCTS: SEE GENERAL NOTES ARCH'L SHEET OF PLANS

DUCT MOUNTING

SCALE: 1" = 1'-0"



MOUNTING HEIGHT OVER OBSTRUCTION

BARD HVAC OPENING @ SUPPLY		
10 SEER	SIZE	OPENING
WA/WH	1.0 TON	18 X 6
WA/WH	1.5 / 2.0 TON	21 X 9
WA/WH	2.5 / 3.0 TON	29 X 9
WA/WH	3.5 / 4.0 TON 5.0 / 6.0 TON	31 X 11
12 SEER	SIZE	OPENING
WA/WH	2.0 TON	29 X 9
WA/WH	2.5 TON	29 X 9
WA/WH	3.0 TON	31 X 11
GAS/ELEC.	SIZE	OPENING
WG	2.0 / 2.5 3.0 TON	29 X 9
WG	3.5 / 4.0 5.0 TON	31 X 11

EQUIPMENT & MATERIAL SCHEDULE

HP 1 — **3.5 TON STANDARD**

HEAT PUMP 'BARD' WALLMOUNT, WH42-A05VP4 5KW
41,500 NOM. BTUH COOLING CAPACITY-10.00 SEER
41,000 NOM. BTUH HEATING CAPACITY FROM COMPRESSOR-6.60 HSPF
ADDITIONAL 17,065 NOM. BTUH HEATING CAPACITY FROM HEAT STRIP
MCA 60, MOCP 70, 1500 CFM @ .3 ESP, UNIT WEIGHT 510 LB.
MIN. WIRE SIZE #6, 230 VOLT, 60 CYCLE, SINGLE PHASE

NOTE:
ADJUST OUTSIDE AIR DAMPER TO A MIN. OF 352 CFM

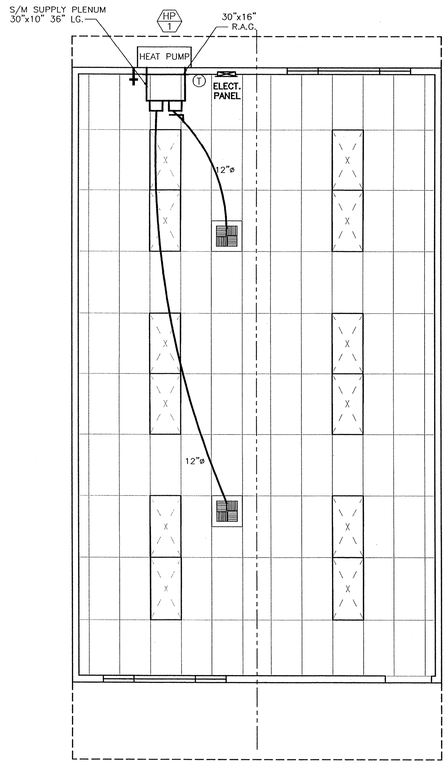
Ⓣ THERMOSTAT - WHITE ROGERS 1F92-371 AUTO CHANGEOVER, ELECTRONIC, 5+2 DAY 3 HEAT, 2 COOL, MOUNT AT +48" A.F.F. USE STAT GUARD #F29-0277

SUPPLY REGISTER, CEILING, SHOEMAKER 104-OBD, 16x16-12, T-BAR, OBD 4 WAY FIXED CURVE BLADE, U.N.O.

SUPPLY REGISTER, CEILING, AIRMATE 604M 8x8, MLD, 4 WAY FIXED BLADE U.N.O.

EF 1 — EXHAUST FAN 109 CFM, BROAN #L100 WITH 6" DUCT TO BROAN # 634 ROOF CAP

SUPPLY BALANCE DAMPER (SIZE AS NOTED)



MECHANICAL PLAN

MECHANICAL NOTES

FLEXIBLE DUCT SHALL BE MODULAR METAL FABRICATORS SERIES FDMA R4.2 WITH INSULATION, A POLY JACKET, AND A WIRE ENCAPSULATED NON-PERFORATED CORE THAT COMPLIES WITH ASTM C-518, 1991. FLEXIBLE DUCTING SHALL BE UL LISTED CLASS 1 AIR DUCT WITH A FLAME SPREAD RATING NOT TO EXCEED 25, AND A SMOKE-DEVELOPED RATING NOT TO EXCEED 50 IN ACCORDANCE WITH NFPA 90A & 90B.

THERMOSTAT PROGRAMMING TO BE PERFORMED AND BATTERY PROVIDED BY OTHERS ON SITE.

TEST AND BALANCE OF HVAC SYSTEM TO BE PROVIDED AND PERFORMED BY OTHERS ON SITE.

ALL HVAC EQUIPMENT LEAVES FACTORY WIRED FOR 240V. OPERATION. THE ACCEPTABLE OPERATING RANGE FOR THE 240 & 208 TAPS ARE:

TAP	RANGE
240	253-216
208	220-187

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PROJECT: 24'x40' MODULAR CLASSROOM BUILDING

TITLE: 24'x40' MECHANICAL PLAN

JOB # 03-1014

DATE 7/11/03

DRAWN BY JAG

SCALE 1/4"=1'-0"

APPROVED

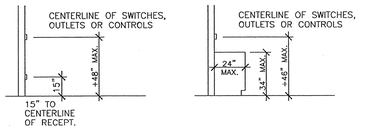
REVISIONS

SHEET NO.
M-1.1-24

SYMBOL LEGEND

- DISCONNECT–GENERAL SWITCH R610–B,60 AMP. NOT REQUIRED ON A/C UNITS WITH INTERNAL DISCONNECT BREAKER
- PULL STATION J–BOX W/ 3/4"ø CONDUIT @ 48" A.F.F.
- EXT. HORN J–BOX W/ 3/4"ø CONDUIT @ + 7'–0" A.F.F.
- 110V RECEPTACLE 20 AMP SPECIFICATION GRADE @ +18" A.F.F.
- SWITCH @ +42" A.F.F.
- SPRING WOUND MECHANICAL TIMER, 1–HR. TIMING RANGE SWITCH @ +42" A.F.F.
- EXTERIOR LIGHT +7'–6"– SEE FIXTURE SCHEDULE
- HORN/STROBE LIGHT J–BOX W/ 3/4"ø CONDUIT @ + 80" A.F.F.
- (S) SMOKE DETECTOR J–BOX W/ 3/4"ø CONDUIT @ CEILING
- (H) HEAT DETECTOR J–BOX W/ 3/4"ø CONDUIT IN ATTIC SPACE (ONE PER MODULE, IN ATTIC TYP.)
- TV TELEVISION J–BOX @ 84" A.F.F. W/ 3/4" CONDUIT STUBBED TO ATTIC
- OS–2 OCCUPANCY SENSOR @ 42", LEVITON ODS0D–ID
- (P) DIRECTIONAL PHOTO CELL CONTROL ON ROOF
- CLOCK W/CLOCK OUTLET @ +8'–0"
- +18" TELE/DATA OUTLET 4" SQ. J–BOX W/ 3/4" CONDUIT STUBBED TO ATTIC
- G.F.I. 110V DUPLEX G.F.I. RECEPTACLE – 15 AMP

NOTE:
ALL FIXTURE MOUNTING HEIGHTS ARE TO THE CENTER OF THE FIXTURE (U.N.O.)

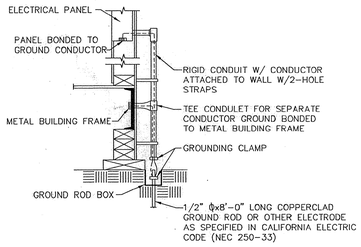


MOUNTING HEIGHT OVER OBSTRUCTION

FIRE ALARM NOTES

1. FIRE ALARM SYSTEM SHALL COMPLY W/ TITLE 24 SEC. 305.9, TITLE 24, PART 3, ARTICLE 760 OF THE CALIFORNIA CODE OF REGULATIONS AND CALIFORNIA FIRE REGULATIONS, ARTICLE 10.
2. INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAIL PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STUCTURAL ENGINEER IN GENERAL CHARGE OF DESIGN AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT AND STATE FIRE MARSHAL.

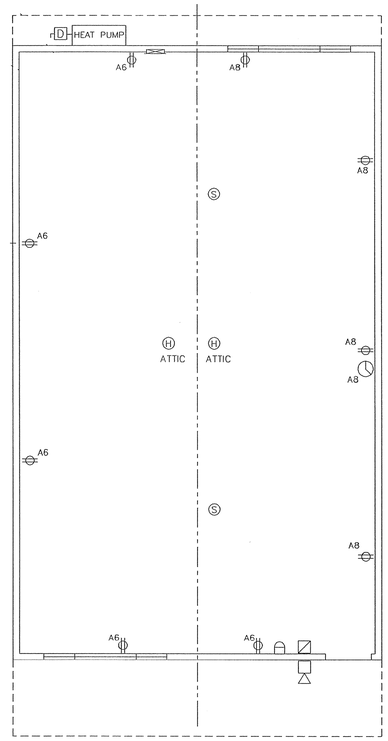
FIRE ALARM SYSTEM (CONDUITS / DEVICES / RUNS / SLEEVES / ETC..) PROVIDED BY OTHERS . (NOT BY WSIMM)



NOTES:
1. SIZE OF CONDUCTORS SHALL COMPLY W/NEC TABLE 250–95.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & TO METAL BUILDING FRAME (NEC 250–81) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (NEC 250–81 & 250–83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). INCLUDING RAMP TO STEEL FRAME.
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'–0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (NEC 250–84).
5. PROJECT INSPECTOR SHALL WITNESS GROUNDING TEST.

ACCEPTABLE GROUNDING DETAIL

BY OWNER



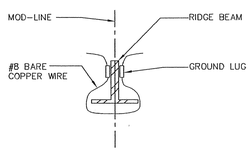
ELECTRICAL POWER PLAN

SCALE: 1/4"=1'–0"

SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM

(S) **4SO J–BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'–0" FROM ANY POINT IN ROOM AND 30'–0" BETWEEN THEM. PROVIDE A 6'–0" CONDUIT FROM EACH J–BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS**

(H) **4SD J–BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'–0" FROM ANY POINT IN ATTIC AND 50'–0" BETWEEN THEM. PROVIDE A 6'–0" CONDUIT FROM EACH J–BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS**



MODULE BONDING

PANELBOARD SCHEDULE — PANEL A

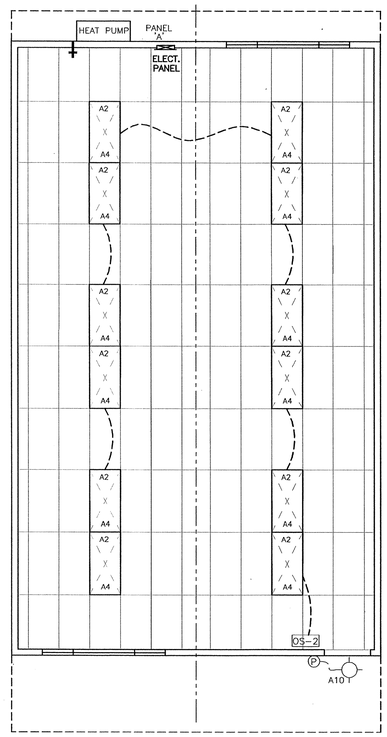
VOLTS 120/240 | PHASE 1 | BUSS 100 A | FEED BOTTOM OR REAR
MAIN BRKR 100 A | WIRE 3 | MOUNT FLUSH | LOCATION INTERIOR

DESCRIPTION	WATTS Aø	WATTS Bø	WIRE SIZE	BREAKER	POLE	CKT. NO.	CKT. NO.	POLE	BREAKER	WIRE SIZE	WATTS Aø	WATTS Bø	DESCRIPTION
HVAC 3.5 TON	6900	——	6	60	2	1	2	1	20	12	576	——	LIGHTS
HVAC 3.5 TON	——	6900	–	–	–	3	4	1	20	12	——	651	LIGHTS/PORCH
J.BOX FOR W.H.	1500	——	12	20	1	5	6	1	20	12	1080	——	RECEPT.
–	——	——	–	–	–	7	8	1	20	12	——	1080	RECEPT.
–	——	——	–	–	–	9	10	1	20	12	75	——	EXT. LIGHT
–	——	——	–	–	–	11	12	–	–	–	——	——	–
SUB TOTAL	8,400	6,900									1,731	1,731	SUB TOTAL

LOAD KW: A 8,556 | B 8,631 | TOT 17,187

*L.C.L. = 1,227 x 1.25 = 1,534
OTHER = 15,960
MAX DEMAND = 17,494

TOTAL LOAD
MAX DEMAND 72.9 AMPS



ELECTRICAL LIGHTING PLAN

SCALE: 1/4"=1'–0"

RECEIVED
JUL 24 2003
WESTERN DIVISION

FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	WATTS
	2'x 4' FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRASMATIC LENS, DOUBLE ELECTRONIC BALLAST. (3) 32 WATT T–8 TUBES, WEIGHT 27 LBS.	96 WATTS
	INCANDESCENT SURFACE MOUNTED EXTERIOR LIGHT FIXTURE WITH IMPACT RESISTANT ENCLOSURE WITH DIRECTIONAL PHOTO CELL CONTROL ON ROOF. **WITH 90 MIN BATTERY BACK–UP**	75 WATTS

MSI
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STRUCTURAL ENGINEER STAMP
LICENSE EXPIRES 6-30-2004

STATE AGENCY STAMP
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT DIVISION OF REGULATION SERVICES 04 105453 APP. PLB DATE JUL 17 2003

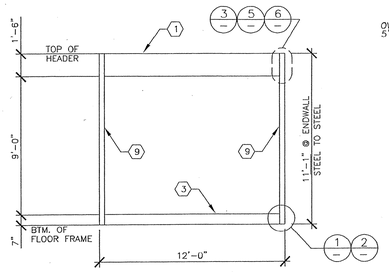
STATE AGENCY STAMP

PROJECT: 24'x40' MODULAR CLASSROOM BUILDING

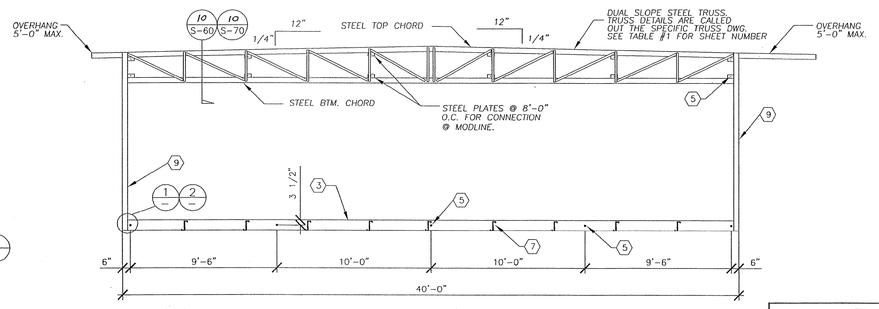
TITLE: 24'x40' ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN

JOB # 03–1014
DATE 7/11/03
DRAWN BY JAG
SCALE 1/4"=1'–0"
APPROVED
REVISIONS

SHEET NO.
E–1.1–24



STRUCTURAL SECTION AT ENDWALL
SCALE: 1/4" = 1'-0"



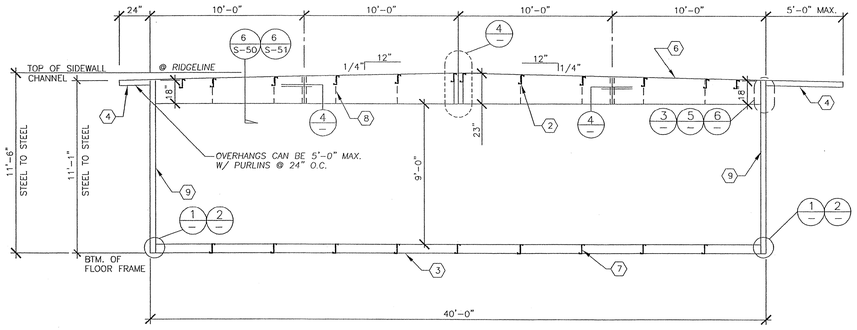
MODLINE SECTION
W/ DOUBLE SLOPE TRUSS, SEE SPECIFIC TRUSS DRAWING PER TABLE #1 FOR DETAILED INFORMATION
SCALE: 1/4" = 1'-0"

TRUSS TABLE #1	
SHEET #	TRUSS DESCRIPTION
S-60	DUAL SLOPE 20 PSF ROOF LOAD, 80 MPH WIND LOAD
S-70	DUAL SLOPE 30 PSF ROOF LOAD, 80 MPH WIND LOAD

KEY NOTES

1. C 3 1/2" x 18" x 12 Ga. RFC STEEL ROOF HEADER.
2. L 6" x 2 X 14 Ga. STEEL ROOF JOIST FOR 20 PSF ROOF. OR 7 X 1 1/2 X 11 GA. FOR 30 PSF ROOF.
3. C7" X 9.8 LB. PERIMETER FRAME
4. 10"x3"x12 GA. CHANNEL AT OVERHANG OR OPTIONAL L 4"x3"x3/8" PURLIN & OUTRIGGER AT 20 PSF ROOF OR L 5"x3"x3/8" OUTRIGGER & L 4"x3"x3/8" PURLIN AT 30 PSF ROOF
5. 5/8" MACHINE BOLT @ MODULE CONNECTION LOCATIONS
6. TAPERED 10 GA. CHANNEL SECTION, BEAM. 18" x 23" x 18" x 3 1/2" x 10 GA..
7. L MEMBER – FLOOR JOIST.
8. 1/4" PLATE FULL HT. STIFFENER AT 4' O.C.
9. STEEL COLUMN – USE 3 1/2" x 3 1/2" x 1/4" TUBE AT CORNERS.
10. NOT USED.
11. 1/4" CAP PLATE.
12. 1/4" PLATE FITTED INSIDE TUBE COLUMN AND WELD IN PLACE.

BUILDING HEIGHT NOTE:
THE BUILDING HEIGHTS SHOWN ON THESE DETAILS DO NOT INCLUDE THE PLYWOOD ROOF DECK OR THE FINISH ROOFING MATERIALS.



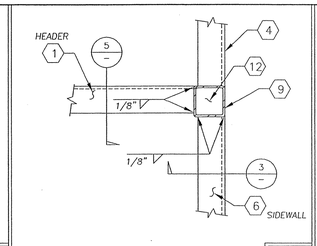
STRUCTURAL SECTION AT SIDEWALL
SCALE: 1/4" = 1'-0"

ARCHITECT STAMP

STRUCTURAL ENGINEER STAMP

STATE AGENCY STAMP

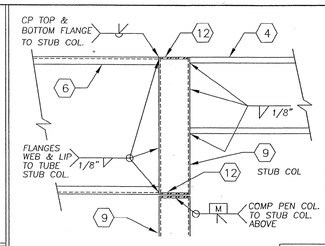
STATE AGENCY STAMP



8

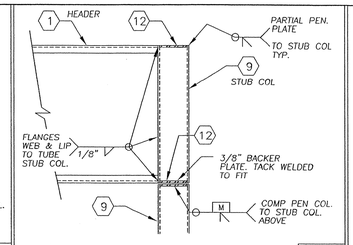
POST CONN. @ ROOF
SCALE: 1 1/2" = 1-0"

6



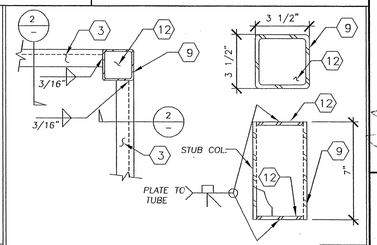
POST CONN. @ ROOF
SCALE: 1 1/2" = 1-0"

5



POST CONN. @ ROOF
SCALE: 1 1/2" = 1-0"

3

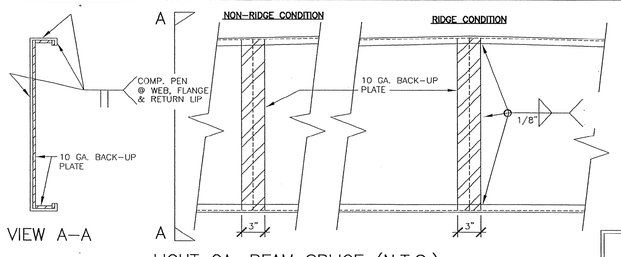


CORNER CONN. @ FLOOR
SCALE: 1 1/2" = 1-0"

1

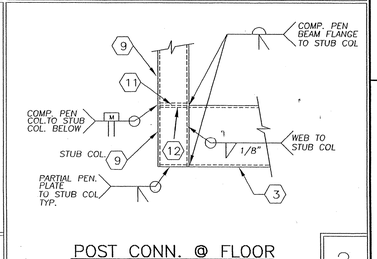
9

7



LIGHT GA. BEAM SPLICE (N.T.S.)

4



POST CONN. @ FLOOR
SCALE: 1 1/2" = 1-0"

2

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
RIGID FRAME SECTION & DETAILS
DUAL SLOPE W/ MODLINE TRUSS
WIND LOAD: 80 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50-20, 100 & 125 PSF

JOB #

DATE 12/1/02

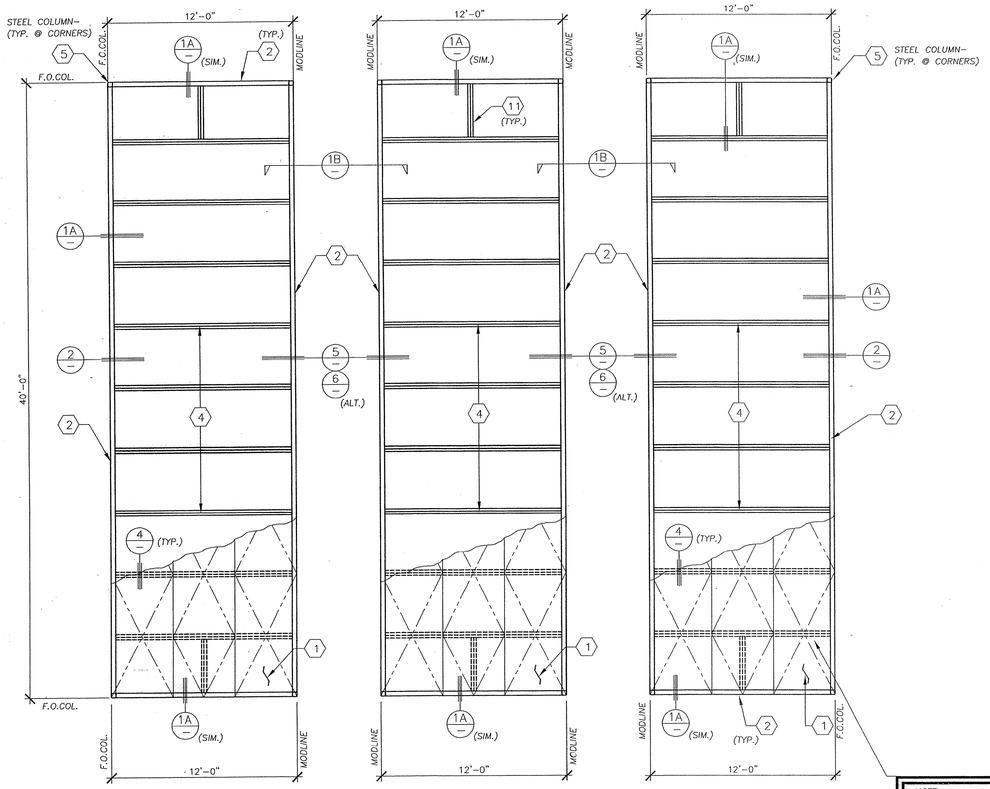
DRAWN BY JAG

SCALE 1/4"= 1-0"

APPROVED

REVISIONS

SHEET NO.
S-5



LEFT HAND MODULE

CENTER MODULE

RIGHT HAND MODULE

FLOOR FRAMING PLAN
SCALE 1/4" = 1'–0"

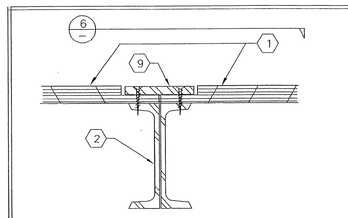
NOTE:
FLOOR JOIST ARE SHOWN AT 48" O/C AS AN EXAMPLE ONLY.

FLOOR JOIST SCHEDULE

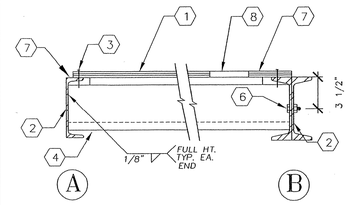
LOAD	JOIST	SPACING
50 PSF	Z 7x1 1/2x11 GA.	48" O.C.
~~50+20 PSF~~	~~Z 7x1 1/2x11 GA.~~	~~32" O.C.~~
~~100 PSF~~	~~Z 7x1 1/2x11 GA.~~	~~24" O.C.~~
~~125 PSF~~	~~Z 7x1 1/2x11 GA.~~	~~16" O.C.~~

KEY NOTES

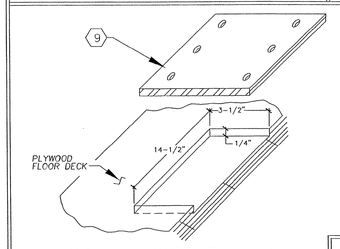
1. PLYWOOD FLOOR SHEATHING – 1 1/8" A.P.A. RATED OR EQUAL. P.S. 1–95 T & G EDGES, 48" SPAN RATING; ATTACH TO STEEL FRAMING WITH .170/.192 PIN OR #10–24x1 3/4" SELF TAP SCREW @ 6" O.C. BOUNDARY & EDGES AND 10" O.C. FIELD.
   NOTE:
   PROVIDE FIELD NAILING @ 6" O.C. WHERE FLOOR JOISTS ARE AT 48" O.C.
2. C7" x 9.8 LB. PERIMETER FRAME
3. 0.145"ø SHOT PIN @ 6" O.C. PLYWOOD DECK TO PERIMETER CHANNEL
4. FLOOR JOIST "I MEMBER. SEE SCHEDULE BELOW.
5. STEEL CORNER COLUMN.
6. 5/8" MACHINE BOLT AT 10'–0" O.C. @ MODULE CONNECTION.
7. AT MODULE JOINT TAKE PLYWOOD TO EDGE OF CHANNEL. AT PERIMETER, HOLD PLYWOOD BACK AS INDICATED.
8. 5" DIA. HOLE AT BOLT LOCATION. (OPTIONAL)
9. 6" x 14" x 12 Ga. PLATE WITH (6) #10–34 x 1 3/4" FLAT HEAD SELF TAP SCREWS INTO STEEL CHANNEL FLOOR FRAME @ 10' O.C.
10. R–11 INSULATION ON "SEAL TITE" TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BIDIRECTIONAL POLYESTER FIBERS.
11. 7"x1 1/2"x11 GA. 'Z' MEMBER @ MIDSPAN.



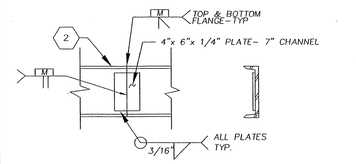
MOD CONN. @ FLOOR
SCALE: 3" = 1–0"
5



PERIMETER FLOOR
SCALE: 1 1/2" = 1–0"
1

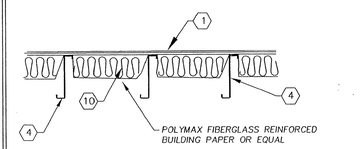


MOD LINE CONN.PLATE ALT.
SCALE: N.T.S.
6

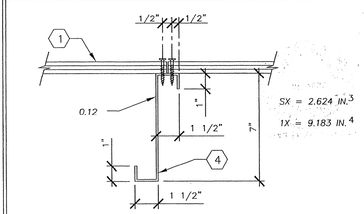


NOTE:
SPLICE MAY OCCUR AT ANY POINT.

CHANNEL SPLICE
SCALE: 1 1/2" = 1–0"
2



INSULATION @ FLOOR
SCALE: N.T.S.
3



FLOOR JOIST
SCALE: 3" = 1–0"
4

DATE SIGNED JUL 15 2003

REGISTERED PROFESSIONAL ENGINEER No. 3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004

RECEIVED JUL 24 2003 WESTERN DIVISION

ARCHITECT STAMP

DATE SIGNED MAY 27 2003
REGISTERED PROFESSIONAL ENGINEER No. 3602 STRUCTURAL STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2004
STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 105453
AC FLS SS
DATE JUL 17 2003
STATE AGENCY STAMP

pc
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4–104778
AC FLS SS
DATE: 5-30-03
STATE AGENCY STAMP

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788–3035 FAX: (909) 788–1523

PROJECT: MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA: FLOOR FRAMING PLAN AND DETAILS FOR PLYWOOD FLOOR
WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #

DATE 12/1/02

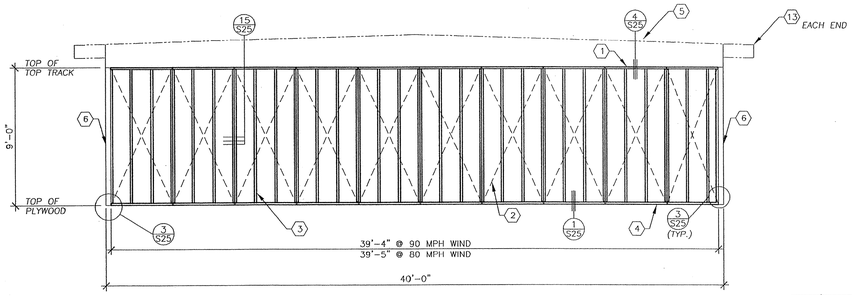
DRAWN BY JAG

SCALE AS NOTED

APPROVED

REVISIONS

SHEET NO.
S–10



TYPICAL SIDEWALL W/NO OPNG'S
SCALE: 1/4" = 1'-0"

NOTE:
DOOR AND WINDOW LOCATIONS CAN BE LOCATED ANY WHERE IN SIDE WALL FOR EXACT LOCATION OF DOORS, WINDOWS AND HVAC OPENINGS SEE FLOOR PLAN.

KEYNOTES

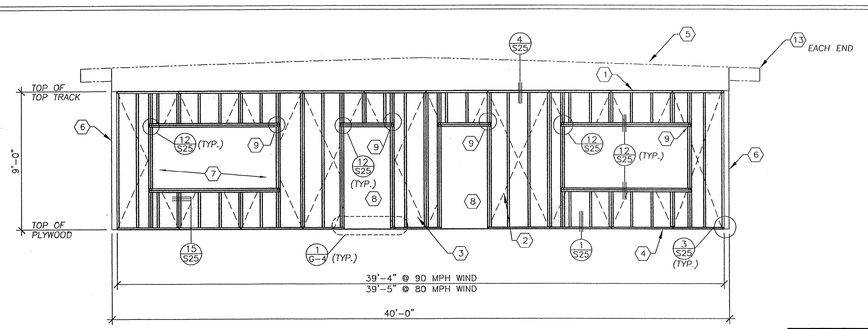
1. CONTINUOUS 3 1/2" x 20 GA. TOP TRACK.
2. PLYWOOD SIDING/SHEATHING NAIL SIDING WITH CORROSION RESISTANT 8d BOX NAILS @ 6" BOUNDARY & EDGES, 12" FIELD.
3. 3 1/2" x 20 GA. STUDS @ 16" O.C.
4. CONTINUOUS 3 1/2" x 20 GA. BTM. TRACK.
5. STEEL FRAME- SEE SHEET S-50 - S-51 "STRUCTURAL SECTIONS" FOR MEMBER TYPES AND SIZES.
6. STEEL CORNER COLUMN.
7. FRAME FOR 8040 WINDOW USE (2) FULL HEIGHT 3 1/2" x 20 GA. JAMB STUDS. (2) 3 1/2" x 20 GA. TRACKS FOR HEADER. (2) 3 1/2" x20 GA. TRACKS FOR WINDOW SILL.
8. FRAME FOR 3'-0"x 6'-8" DOOR. USE (2) FULL HEIGHT 3 1/2" x 20 GA. JAMB STUDS & (2) 3 1/2" x 20 GA. TRACKS FOR HEADER.
9. ATTACH HEADER OR SILL TO 3 1/2" x 20 GA. STUD WITH #8 x 1/2" SELF TAP SCREWS. AT CORNERS OF ALL OPENINGS.
10. 4x4 D.F. POST
11. FRAME FOR A/C UNIT.
12. NOT USED
13. OVERHANG, (5'-0" MAX.)
14. NOTCH (1) PC. OF 3 1/2" x 20 GA. TRACK AROUND STUDS TO PROVIDE BLKG..
15. 2 x 4 SHIM LOCATED BETWEEN 4 x 4 STL. POST AND FIRST 3 1/2" x 20 GA. STUD @ OUTSIDE OF BLDG.

WALL FRAMING NOTES FOR STUCCO SIDING OPTION:

STUDS TO BE 3 1/2" x 20 GA. @ 16" O.C.

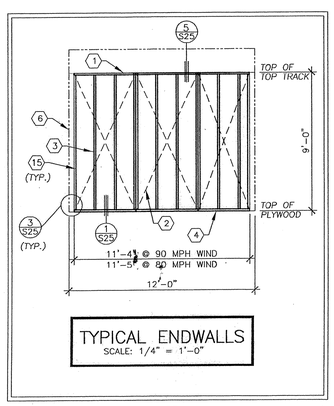
4'-0" WALL OPENINGS - (1) 3 1/2" x 20 GA. TRACK AS HEADER AND (2) 3 1/2" x 20 GA. FULL HEIGHT JAMB STUDS.

8'-0" WALL OPENINGS - (2) 3 1/2" x 20 GA. TRACK AS HEADER AND (3) 3 1/2" x 20 GA. FULL HEIGHT JAMB STUDS.

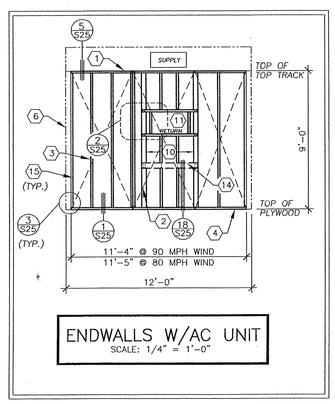


TYPICAL SIDEWALL W/DOORS & WINDOWS
SCALE: 1/4" = 1'-0"

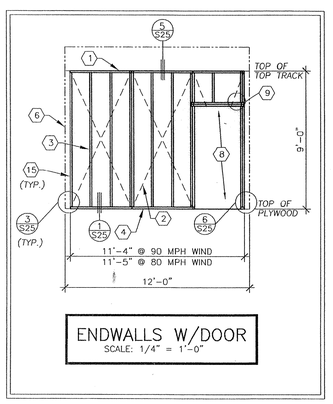
NOTE:
DOOR AND WINDOW LOCATIONS CAN BE LOCATED ANY WHERE IN SIDE WALL FOR EXACT LOCATION OF DOORS, WINDOWS AND HVAC OPENINGS SEE FLOOR.



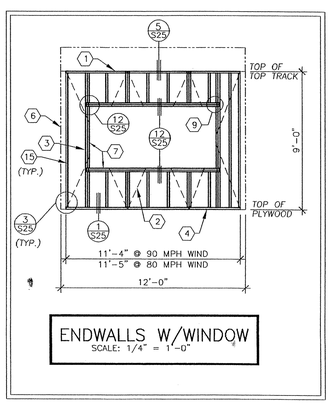
TYPICAL ENDWALLS
SCALE: 1/4" = 1'-0"



ENDWALLS W/AC UNIT
SCALE: 1/4" = 1'-0"



ENDWALLS W/DOOR
SCALE: 1/4" = 1'-0"



ENDWALLS W/WINDOW
SCALE: 1/4" = 1'-0"

NOTE:
FOR EXACT LOCATION OF DOORS, WINDOWS AND HVAC OPENINGS, SEE FLOOR PLAN.

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

ARCHITECT STAMP

DATE SIGNED
JUL 15 2003

DATE SIGNED
MAY 21 2003

STRUCTURAL ENGINEER STAMP

LICENSE EXPIRES 6-30-2004

STATE AGENCY STAMP

STATE AGENCY STAMP

PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
EXTERIOR WALL FRAMING ELEVATIONS
FOR STEEL STUDS
WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #

DATE 12/1/02

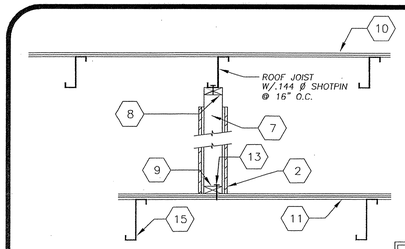
DRAWN BY JAG

SCALE 1/4" = 1'-0"

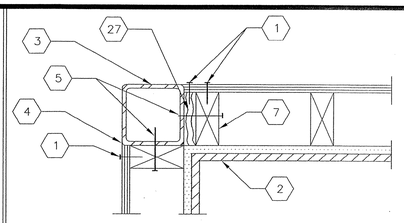
APPROVED

REVISIONS

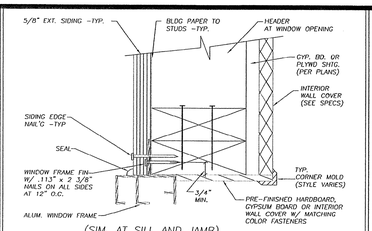
SHEET NO.
S-21



INTERIOR WALL ATTACHMENT 16
SCALE: 1" = 1-0"

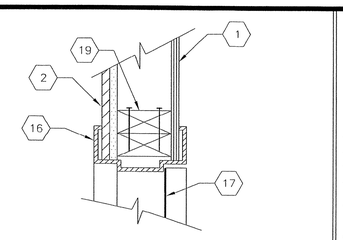


COLUMN AT CORNER 11
SCALE: 3" = 1-0"



(SIM. AT SILL AND JAMB)

WINDOW HEADER 6
SCALE: N.T.S.

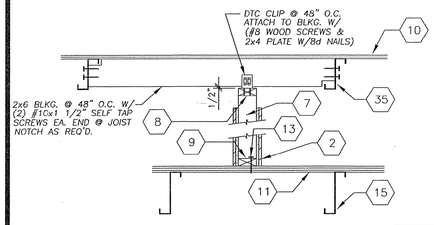


DOOR HEADER 1
SCALE: 3" = 1-0"

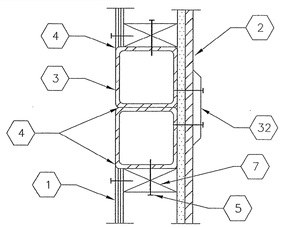
KEYNOTES

A. PROVIDE MOISTURE BARRIER BEHIND SIDING. USE ASPHALT SATURATED KRAFT, TYPE-1, GRADE 'D', STYLE-2 OR EQUAL ICBO NO. 4369

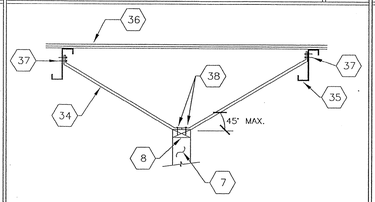
1. EXTERIOR PLYWOOD SIDING/SHEATHING – NAIL W/ CORROSION RESISTANT 8d BOX NAILS AT 6" O/C BOUNDARY & EDGES, AND 12" O/C FIELD.
2. TYPICAL INTERIOR FINISH
3. STEEL TUBE COLUMN
4. PAINTABLE ACRYLIC LATEX SEALANT (U.N.O.)
5. 'HILTI' DN57-P8 @ 24" O.C. (OR RAMSET 1514 SD) OR .144 PIN.
6. 2x4 TRIMMER
7. 2x4 FULL HT STUDS
8. 2x4 TOP PLATE
9. 2x4 BOTTOM PLATE
10. ROOF SHEATHING
11. FLOOR SHEATHING
12. GALV METAL FLASHING
13. 16d NAIL @ 16" O.C.
14. STEEL FLOOR CHANNEL
15. STEEL FLOOR JOIST @ 32" O.C. MIN. FOR PARTITION.
16. HOLLOW METAL DOOR FRAME
17. METAL DOOR
18. WATERPROOF MEMBRANE
19. HEADER – (2)-2x4 H.F. #2
20. DOOR BOTTOM W/ WEATHER STRIP
21. NOT USED
22. WALL MTD. A/C
23. 4x4 H.F. #2 POST (OR BETTER)
24. 2X6 BLOCK BETWEEN STUDS. ATTACH TO STUDS W/ (2) 16d BOX NAILS EA END
25. 11 GA x 24" LONG STEEL BOTTOM BRACKET
26. 3/8"ø x 2-1/2" LAG BOLT INTO BOTTOM BRACKET AND INTO 2x6 BLOCK W/ 1 1/2" MIN. EMBEDMENT
27. 3/4" SPACER-PLYWOOD
28. 16d BOX NAIL @ 8" O.C.
29. 1/4" FULL HT. STIFFENER
30. 1/2"ø MACHINE BOLT W/ WASHER @ 24" O.C. OR 0.145"ø SHOT PIN @ 16" O.C.
31. NOT USED
32. VINYL WRAPPED CLOSE-OFF BATT, ATTACH W/ #8x2 1/4" PAN HEAD WOOD SCREWS STAGGERED 24" O.C. AND (2) SCREWS TOP & BOTTOM.
33. 3 1/4"x1"x4'-6" L x 16 GA. CHANNEL TOP & BOTTOM.
34. 1/2"ø STEEL CONDUIT BRACE AT 8' O.C. MAX. STAGGERED.
35. ROOF PURLIN (SEE STRUCTURAL ROOF FRAME).
36. PLYWOOD ROOF DECK SHOWN, NOT REQ'D @ 22 GAUGE METAL ROOF DECK
37. #10 STSMS WAFER HD.
38. #10 WOOD SCREWS



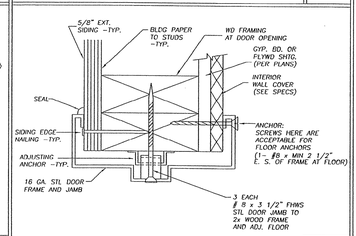
INTERIOR WALL ATTACHMENT 17
SCALE: 1" = 1-0"



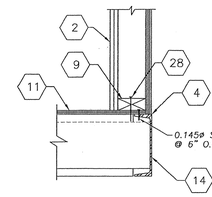
COLUMN AT MODULE LINE 12
SCALE: 3" = 1-0"



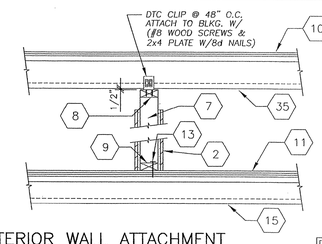
ALT. PARTITION CONN. PARELLEL 7
SCALE: 1" = 1-0"



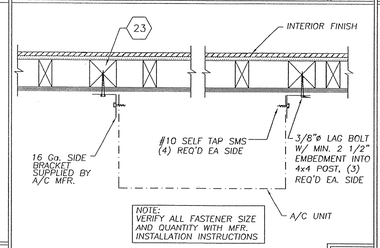
DOOR JAMB 2
SCALE: N.T.S.



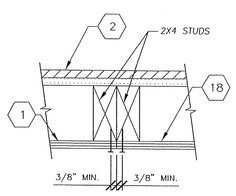
WALL @ FLOOR 18
SCALE: 1 1/2" = 1-0"



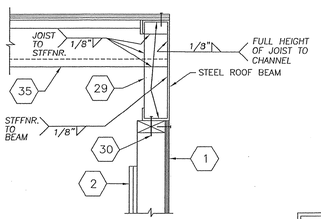
INTERIOR WALL ATTACHMENT PERPINDICULAR TO ROOF PURLINS 13
SCALE: 1" = 1-0"



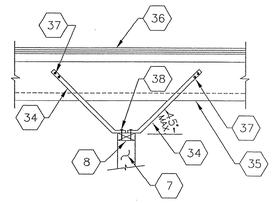
A/C MOUNTING DETAIL N.T.S. 8



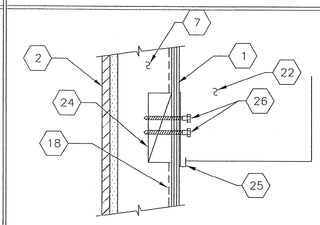
SIDING
SCALE: 3" = 1-0"
3



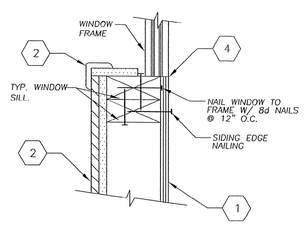
WALL @ ROOF BEAM 19
SCALE: 1 1/2" = 1-0"



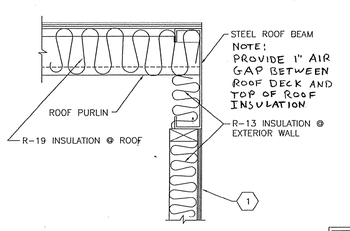
ALT. PARTITION CONN. PERP. 14
SCALE: 1 1/2" = 1-0"



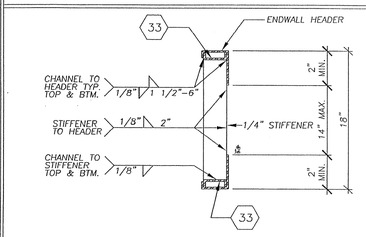
A/C @ BOTTOM 9
SCALE: 3" = 1-0"



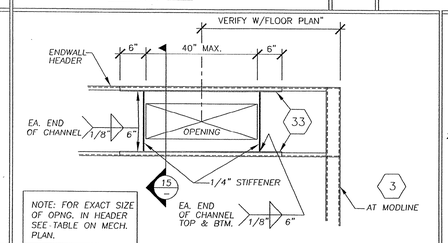
WINDOW SILL 4
SCALE: 3" = 1-0"



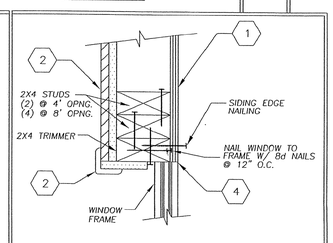
INSULATION @ WALL/ROOF 20
SCALE: 1 1/2" = 1-0"



A/C OPENING IN HEADER 15
SCALE: 1 1/2" = 1-0"



A/C OPENING IN HEADER 10
SCALE: 3/4" = 1-0"



WINDOW JAMB 5
SCALE: 3" = 1-0"

MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3535 FAX: (909) 788-1523

ARCHITECT STAMP
DATE SIGNED JUL 15 2003

STRUCTURAL ENGINEER STAMP
DATE SIGNED MAY 21 2003
LICENSE EXPIRES 6-30-2004

STATE AGENCY STAMP
IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 104453
AC FLS SS
DATE JUL 17 2003

STATE AGENCY STAMP
RECEIVED JUL 24 2003
DIVISION

STATE AGENCY STAMP
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4-104778
AC FLS SS
DATE: 5-30-03

PROJECT: MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA: WOOD STUD WALL FRAMING DETAILS

WIND LOAD: 80 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #

DATE 12/1/02

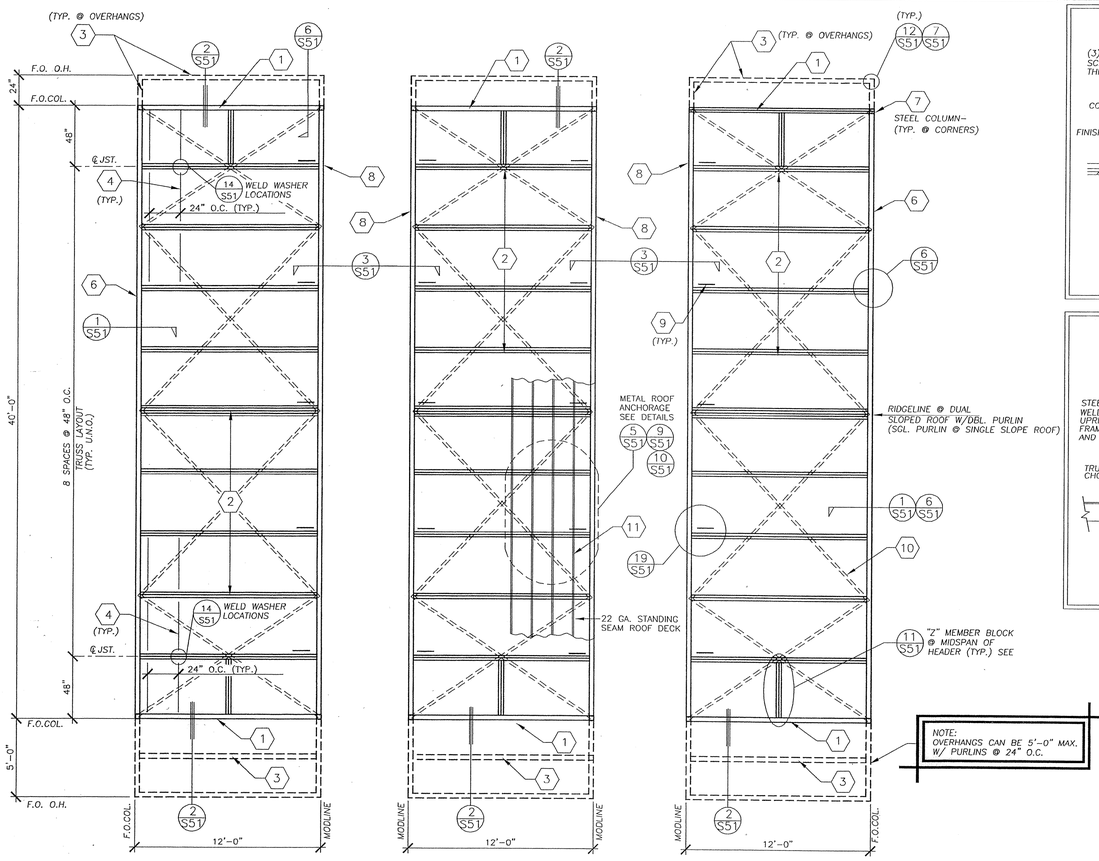
DRAWN BY JAG

SCALE AS NOTED

APPROVED

REVISIONS

SHEET NO. S-30



LEFT HAND MODULE
SCALE 1/4" – 1'-0"

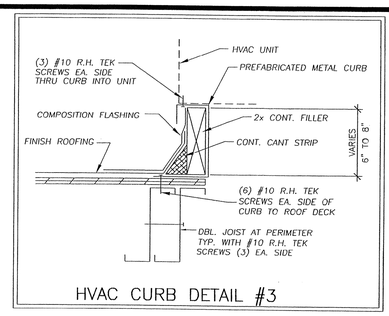
CENTER MODULE
SCALE 1/4" – 1'-0"

RIGHT HAND MODULE
SCALE 1/4" – 1'-0"

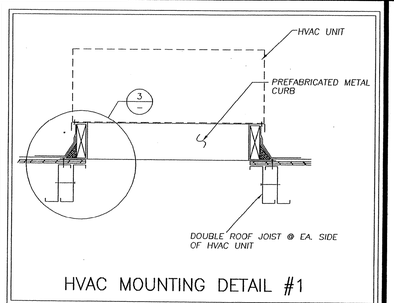
ROOF FRAMING PLAN METAL ROOF OPTION
SCALE 1/4" – 1'-0"

KEY NOTES

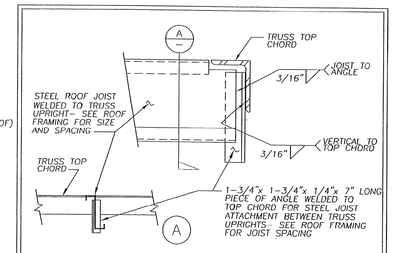
1. [18"x3 1/2"x 12 GA. RFC STEEL ROOF HEADER.
2. L 6" x 2 x 14 GA. STEEL ROOF JOIST @ 48" O.C. FOR 20 PSF ROOF OR 7 x 1 1/2 x 11 GA. @ 48" O.C. FOR 30 PSF ROOF.
3. 10"x12 GA. CHANNEL @ ROOF OVERHANGS. L 4"x3"x3/8" PURLIN & CUTRIGGER AT 20 PSF RCOF OR L 5"x3"x3/8" OUTRIGGER & L 4"x3"x3/8" PURLIN AT 30 PSF ROOF
4. WIRE OR STRAP ATTACHED TO ROOF JOISTS FOR INSULATION SUPPORT AT 24" O.C.
5. NOT USED.
6. 18"x23"x18"x3 1/2"x10 GA. TAPERED CHANNEL SECTION BEAM AT DOUBLE SLOPE ROOF AND 18"x28"x3 1/2"x 10 GA. AT SINGLE SLOPE ROOF.
7. STEEL CORNER COLUMN SEE RIGID FRAME SECTION FOR SIZE.
8. STEEL TRUSS. (SEE SHTS. S-60, S-60.1, S-70, & S-70.1)
9. STEEL TRUSS BRACES AT 8' O.C. TO BOTTOM CHORD OF TRUSSES L 1 1/2"x1 1/2"x 3/16"
10. 2" x 20 GAUGE METAL STRAPS ONLY FOR 22 GA. METAL ROOF OPTION. W/ 3" MIN. OF 1/8" FILLET WELD EACH END TO ROOF BEAM OR HEADER.
11. 22 GA. STANDING SEAM ROOF DECK. SEE DETAIL #9 ON SHEET S-51 FOR ROOF PANEL SECTION.



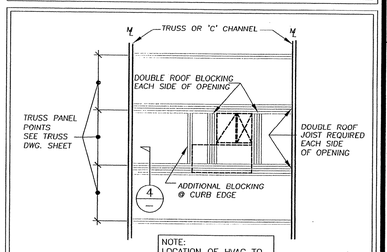
HVAC CURB DETAIL #3



HVAC MOUNTING DETAIL #1

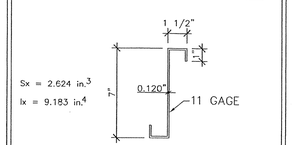


STEEL JOIST TO TRUSS DETAIL #4

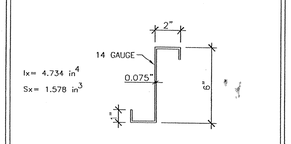


ROOF MOUNT HVAC OPENING #2

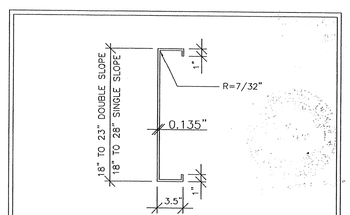
ROOF JOIST SCHEDULE		
LOAD	PURLIN	SPACING
20 PSF	L 6x14 GA.	48" O.C.
30 PSF	L 7x11 GA.	48" O.C.



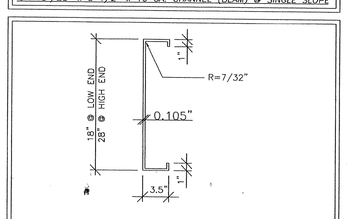
(2) ROOF JOIST
L 7"x1 1/2"x11 GA. (ALTERNATE)



(2) ROOF JOIST
L 6"x2"x14 GA.



(6) ROOF BEAM
18"/23"/18" x 3 1/2" x 10 GA. CHANNEL (BEAM) @ DOUBLE SLOPE
OR 18"/28" x 3 1/2" x 10 GA. CHANNEL (BEAM) @ SINGLE SLOPE



(1) ROOF HEADER
18" x 3 1/2" x 12 GA. CHANNEL (HDR) @ DOUBLE SLOPE
28" x 3 1/2" x 12 GA. CHANNEL (HDR) @ SINGLE SLOPE

DATE SIGNED JUL 15 2003

RECEIVED JUL 24 2003 WESTERN DIVISION

ARCHITECT STAMP

DATE SIGNED MAY 2 1 2003

STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 104658
AC FLS SS
DATE JUL 17 2003

STATE AGENCY STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4-104778
AC FLS SS
DATE: 5-30-03

STATE AGENCY STAMP

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

PROJECT:
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
ROOF FRAMING PLAN W/ 22 GA. METAL DECK

WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #

DATE 12/1/02

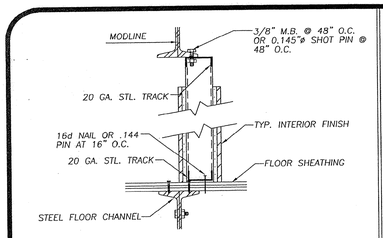
DRAWN BY JAG

SCALE AS NOTED

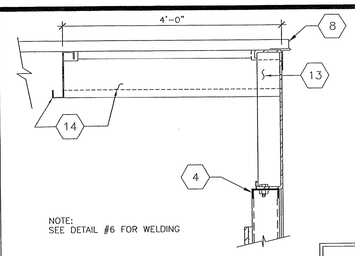
APPROVED

REVISIONS

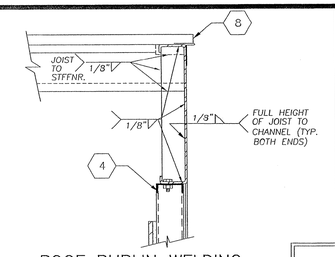
SHEET NO.
S-41



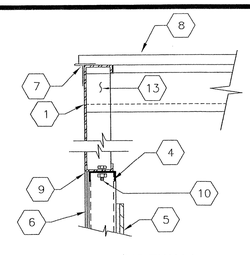
INT. WALL ATTACH @ MOD-LINE 16
SCALE: 1 1/2" = 1-0"



MIDSPAN BLKG. @ ENDWALL 11
SCALE: 1 1/2" = 1-0"



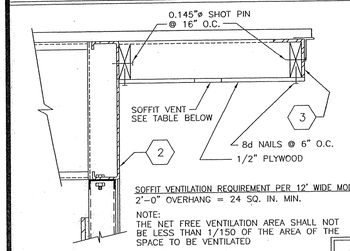
ROOF PURLIN WELDING 6
SCALE: 1 1/2" = 1-0"



ROOF @ SIDEWALL 1
SCALE: 1 1/2" = 1-0"

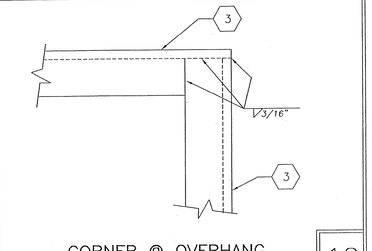
KEYNOTES

1. 10 GA. CHANNEL @ ROOF SIDEWALL
   DUAL SLOPE OPTION: 18/23/18x3 1/2x10 GA.
   SINGLE SLOPE OPTION: 18/28/18x3 1/2x10 GA.
2. 12 GA. CHANNEL @ ROOF HEADER
   DUAL SLOPE OPTION: 18"x3 1/2"x12 GA.
   SINGLE SLOPE OPTION: 18/28x3 1/2x12 GA.
3. OVERHANG @ ENDWALL, SEE ROOF PLAN FOR SIZE AND SHT. G-2 FOR OVERHANG MATERIAL
4. 20 GA. STL. TRACK CONT. TOP PLATE- ATTACH TO CHANNEL W/ 0.145ø SHOT PIN AT 18" O.C. OR 3/8" BOLT AT 24" O.C. MIN.
5. INTERIOR FINISH - SEE SHEET G-2
6. TYP. EXTERIOR FINISH - SEE SHEET G-2
7. 26 GA. FLASHING
8. STEEL ROOF DECK - 22 GA. ROLL FORMED STANDING SEAM ROOF DECK, SEE DETAIL #9 ROOF PANEL SECTION. SEE DETAILS #5 AND #10 FOR ATTACHMENT SPECIFICATIONS.
9. PAINTABLE ACRYLIC LATEX SEALANT (U.N.O.)
10. 1/2ø" MACHINE BOLT W/ WASHER @ 24" OC MIN. OR 0.145ø SHOT PIN AT 18" O.C.
11. WELD WASHER - 1-3/8"x 3/32" WITH 9/16" HOLE. WELD TO UPPER CHANNEL FLANGE.
12. 5/8" MACHINE BOLT AT 8'-0" O.C. @ MODULE CONNECTION.
13. 1/4" FULL HEIGHT STIFFENER @ 4'-0" O.C.
14. 6"x 14 GA. ROOF JOIST OR BLKG.

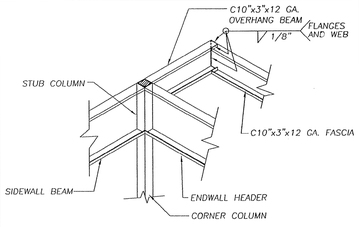


SOFFIT VENTILATION REQUIREMENT PER 12' WIDE MODULE
2'-0" OVERHANG = 24 SQ. IN. MIN.
NOTE:
THE NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE TO BE VENTILATED

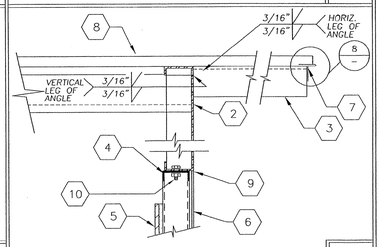
OPTIONAL 2' OVERHANG 17
SCALE: 1 1/2" = 1-0"



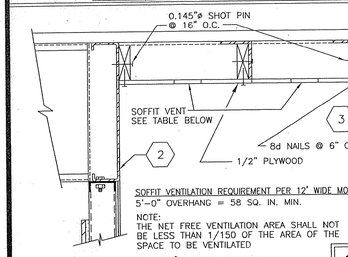
CORNER @ OVERHANG 12
SCALE: 3" = 1-0"



OVERHANG CONN. DETAIL 7
SCALE: N.T.S.

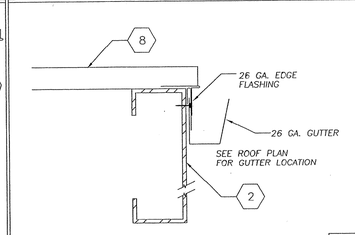


ROOF @ ENDWALL 2
SCALE: 1 1/2" = 1-0"

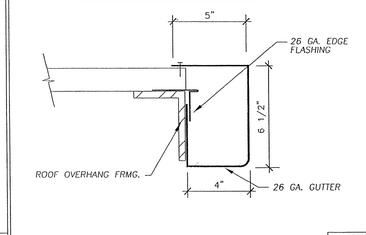


SOFFIT VENTILATION REQUIREMENT PER 12' WIDE MODULE
5'-0" OVERHANG = 58 SQ. IN. MIN.
NOTE:
THE NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE TO BE VENTILATED

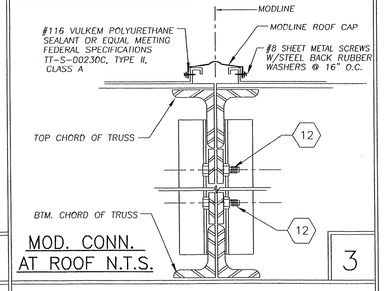
OPTIONAL 5' OVERHANG 18
SCALE: 1 1/2" = 1-0"



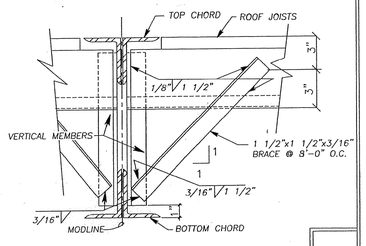
OPTIONAL GUTTER 13
SCALE: 3" = 1-0"



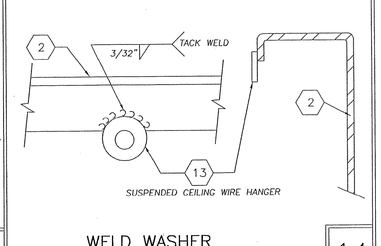
FASCIA @ GUTTER 8
SCALE: 3" = 1-0"



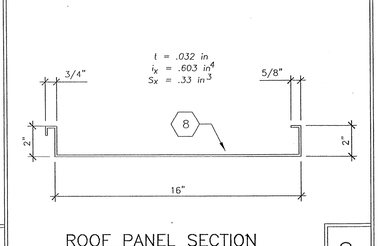
MOD. CONN. AT ROOF N.T.S. 3



TRUSS TO ROOF JOIST BRACING 19



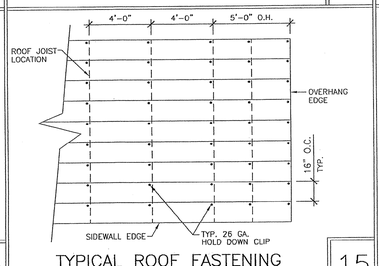
WELD WASHER
SCALE: 1 1/2" = 1-0"
14



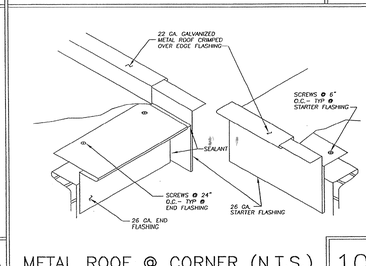
ROOF PANEL SECTION
SCALE: 3" = 1-0"
9

4

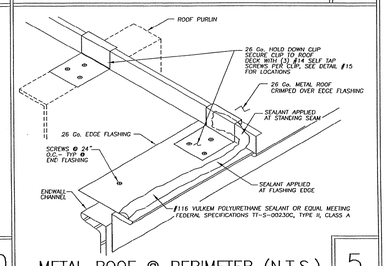
20



TYPICAL ROOF FASTENING
SCALE: 1/4" = 1-0"
15



METAL ROOF @ CORNER (N.T.S.) 10



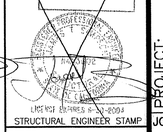
METAL ROOF @ PERIMETER (N.T.S.) 5

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3535 FAX: (909) 788-1523

ARCHITECT STAMP

DATE SIGNED JUL 15 2003

DATE SIGNED MAY 21 2003



STRUCTURAL ENGINEER STAMP

STATE AGENCY STAMP

STATE AGENCY STAMP

PROJECT: MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA: ROOF FRAMING DETAILS W/ METAL DECK

WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #

DATE 12/1/02

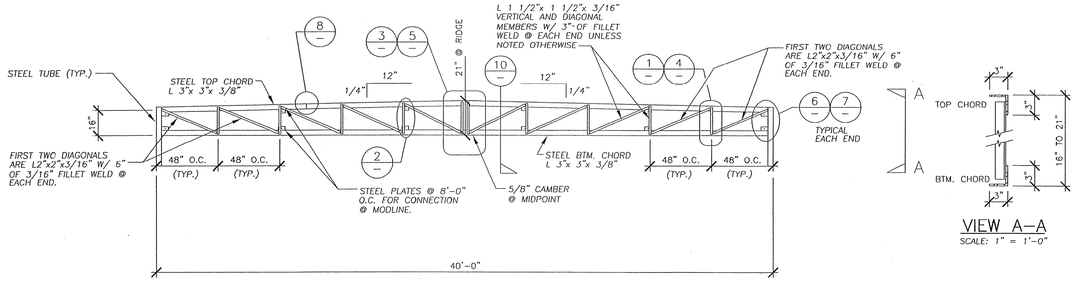
DRAWN BY JAG

SCALE AS NOTED

APPROVED

REVISIONS

SHEET NO.
S-51



DUAL SLOPE STEEL TRUSS ELEVATION
W/ 20 PSF ROOF LOAD & 80 MPH WIND
SCALE: 1/4" = 1'-0"

VIEW A–A
SCALE: 1" = 1'-0"

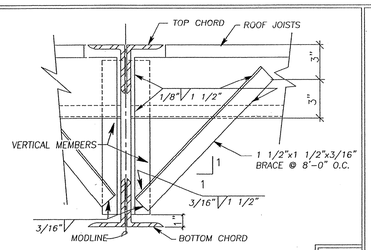
NOTES:
1. ALL STEEL GRADES TO BE A-36 OR EQ. WITH 36 K.S.I. MIN. YEILD
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70-XX OR EQ.
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS.
4. BOLTS & NUTS TO BE A307.
5. 3/8"x3"x5 1/2" PLATE WITH 11/16" HOLE FOR 5/8" MACHINE BOLT. PLATES @ 8'-0" O.C. FOR MODULE CONNECTION. SEE DETAIL #2A.

RECEIVED
JUL 24 2003
WESTERN DIVISION

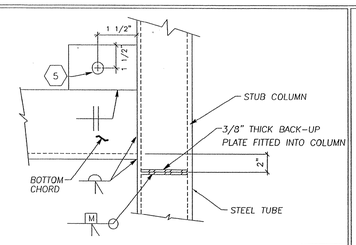
DATE SIGNED
JUL 15 2003

REGISTERED PROFESSIONAL ENGINEER
JAMES T. GUNN
No. 3602
STRUCTURAL
STATE OF CALIFORNIA
EXPIRES 6-30-2004

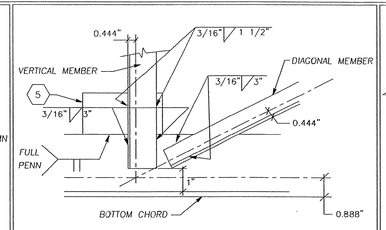
MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
4200 OTIS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1323



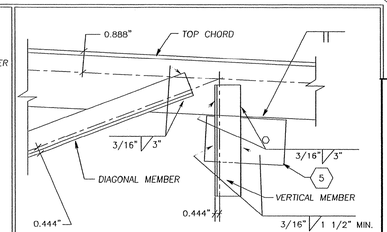
13 TRUSS TO ROOF JOIST BRACING



10 POST CONN. TO TRUSS (BOT.)



7 VERT. & DIAG. TO BTM CHORD

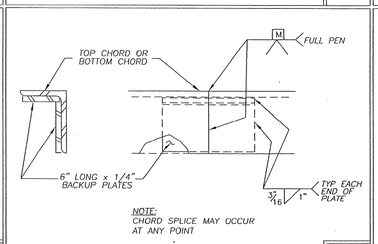


4 VERT. & DIAG. TOP CHORD

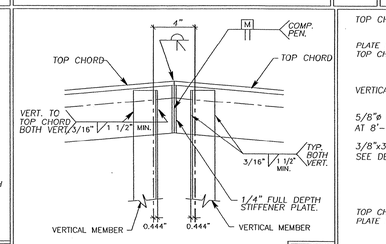
1

14

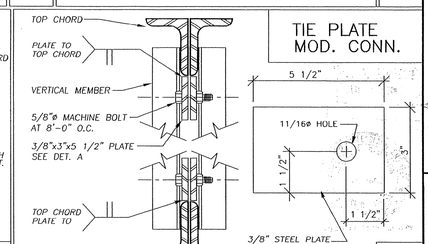
11



8 TRUSS CHORD SPLICE



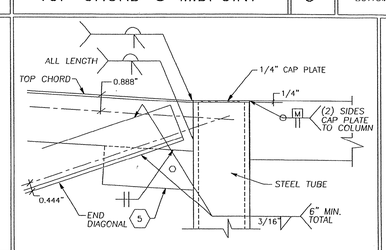
5 TOP CHORD @ MIDPOINT



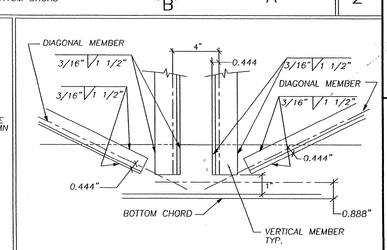
2

15

12



9 POST CONN. TO TRUSS (TOP)



6 BOTTOM CHORD @ MIDSPAN

3

ARCHITECT STAMP

DATE SIGNED
MAY 21 2003

STRUCTURAL ENGINEER STAMP

STATE AGENCY STAMP

STATE AGENCY STAMP

PROJECT: MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA: DUAL SLOPE TRUSS & DETAILS

WIND LOAD: 80 MPH
ROOF LOAD: 20 PSF
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #

DATE 12/1/02

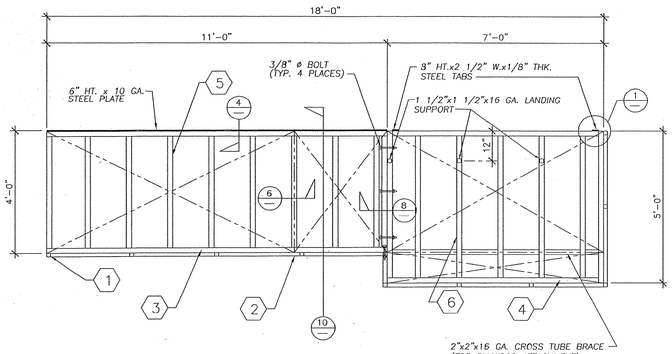
DRAWN BY JAG

SCALE AS NOTED

APPROVED

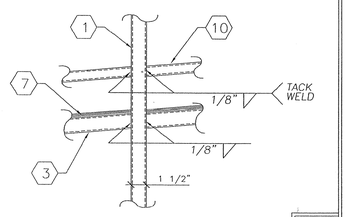
REVISIONS

SHEET NO.
S-60



FRAMING PLAN

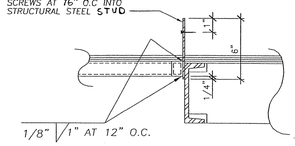
SCALE: 1/2" = 1'-0"



VERTICAL POST CONN.

SCALE: 2"=1'-0"

9



RAMP TO BUILDING

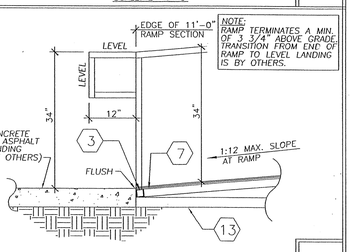
SCALE: 2"=1'-0"

4

KEY NOTES

1. UPRIGHT TUBE – 1 1/2" x 2 1/2" x 12 GA. SQ. TUBE. (Fy = 39 KSI)
2. HANDRAIL TUBE – 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE. (Fy = 39 KSI)
3. RAMP PERIMETER TUBE – 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE
4. LANDING PERIMETER TUBE – 2" x 2" x 16 GA. SQ. TUBE
5. RAMP CROSS TUBE – 1 1/2" x 1 1/2" x 16 GA. SQ. TUBE (@ 16" O.C.)
6. LANDING CROSS TUBE – 2" x 2" x 16 GA. SQ. TUBE
7. 12 GA. METAL DECK: NON-SLIP SURFACE. DESIGN COEFFICIENT OF FRICTION GREATER THAN 0.7. MAINTAINABLE FOR 1 YR. ALTERNATE PLYWOOD DECKING: USE 3/4" EXTERIOR GRADE PLYWOOD DECKING W/ 24" O.C. SPAN RATING. (ATTACH METAL W/ TACK WELD @ 12" O.C. @ PERIMETER, ATACH PLYWOOD DECK W/ #12 SELF TAP SCREWS @ 12" O.C. @ PERIMETER.
8. ADJUSTABLE LEGS – 1 1/4" x 1 1/4" 16 GA. SQ. TUBE W/ 3"x6"x1/4" THK. BASE PLATE WELDED TO LEG BASE PLATE TO HAVE (2) 5/16" HOLES FOR 1/4" LAG BOLTS.
9. SUPPORT PLATE – 1 1/4" x 1/8" THICK PLATE
10. WHEELCHAIR RAIL – 1" x 1" SQ. TUBE TACK WELDED TO UPRIGHT MEMBERS.
11. 3/8" DIA. MACHINE BOLTS.
12. 6"X10"X10GA. PLATE W/ (2) 1/4"øX3" LAG SCREWS.
13. CONT. SILL PLATE 2x6 P.T.H.F. SEE DET. #15 FOR LAYOUT.
14. WOOD SKIRTING ROUGH SAWN T-1-11 UNGROOVED
15. HANDRAIL MOUNTING BRACKET W/ 3/8"ø x 4" LAG BOLT TO STUD. BRACKET OCCURS @ (3) PLACES, (1) @ EACH END AND (1) @ MIDSPAN OF HANDRAIL.
16. DRIVE 1" DIA. x 15" G.I. PIPE AT 10'-0" MAX. DRILL SILL PLATE 1 1/2" DIA. MAX. HOLE. PIPE MAY BE DRIVEN AT A MAX. OF 45° ANGLE W/ VERTICAL.
17. THE STRENGTH OF STEEL TUBES IS 46000 PSI OR HIGHER.
18. RAMP EXTENSION FRAME.
19. 3"x1"x3'-0"x10 GA. BENT PLATE.

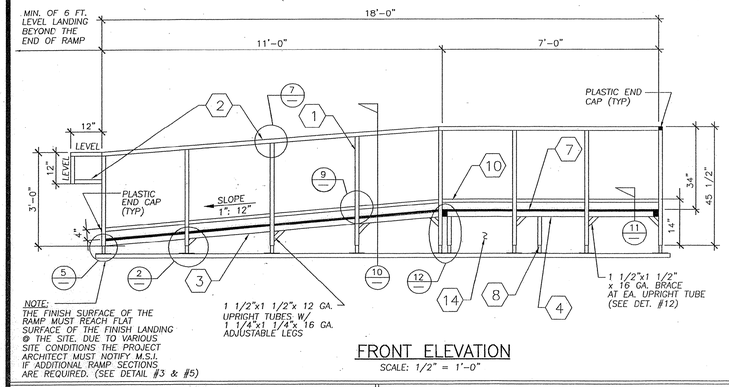
RECEIVED
JUL 24 2003
WESTERN DIVISION



CONC. LANDING TO RAMP

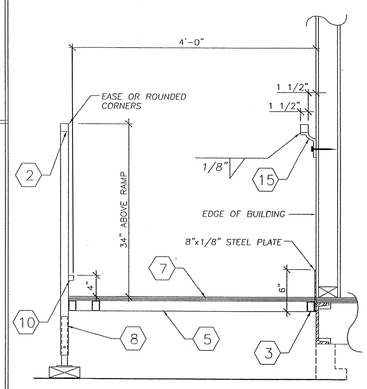
SCALE: 3/4"=1'-0"

5



FRONT ELEVATION

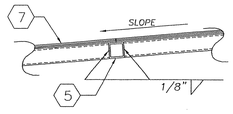
SCALE: 1/2" = 1'-0"



SECTION AT RAMP

SCALE: 1"=1'-0"

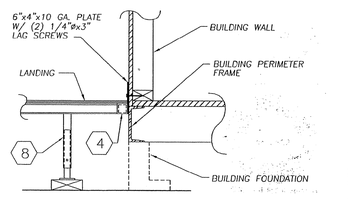
10



DECK & JOIST CONN.

SCALE: 2"=1'-0"

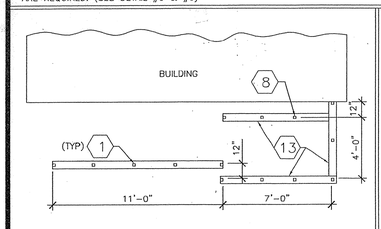
6



LANDING TO BUILDING

SCALE: 1"=1'-0"

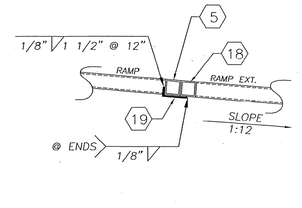
1



SILL PLATE @ RAMP & LANDING

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

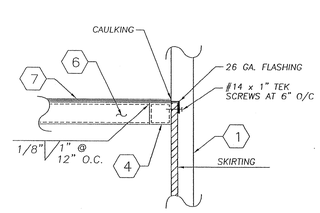
15



RAMP EXTENSION TO RAMP

SCALE: 2"=1'-0"

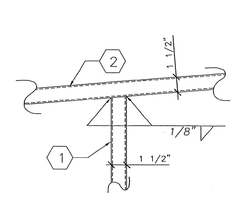
13



SKIRT FLASHING

SCALE: N.T.S.

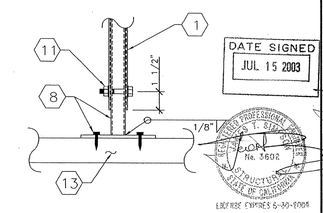
11



POST TO HANDRAIL

SCALE: 2"=1'-0"

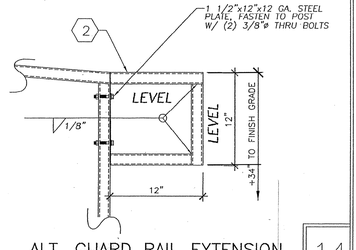
7



BASE

SCALE: N.T.S.

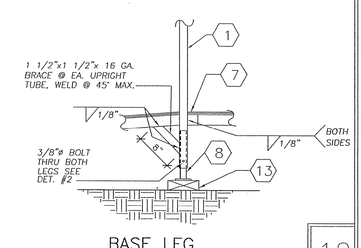
2



ALT. GUARD RAIL EXTENSION

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

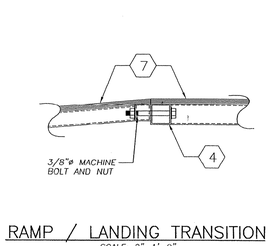
14



BASE LEG

SCALE: 1"=1'-0"

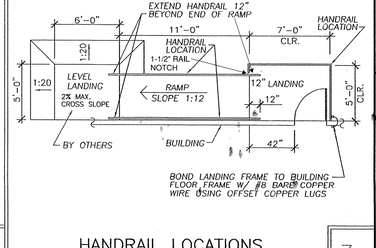
12



RAMP / LANDING TRANSITION

SCALE: 2"=1'-0"

8



HANDRAIL LOCATIONS

SCALE: N.T.S.

3

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3035 FAX: (909) 788-1523

ARCHITECT STAMP

DATE SIGNED MAY 21 2003

LICENSE EXPIRES 6-30-2004

STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
04 104152
AC PE FLS SS
DATE JUL 17 2003

STATE AGENCY STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
4-104778
AC PE FLS SS
DATE: 5-30-03

STATE AGENCY STAMP

PROJECT: MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA: 4'-0" WIDE RAMP PLAN & DETAILS

WIND LOAD: 80 & 90 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 100 PSF

JOB #

DATE 12-1-02

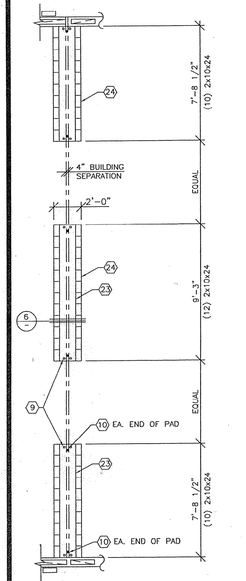
DRAWN BY JAG

SCALE AS NOTED

APPROVED

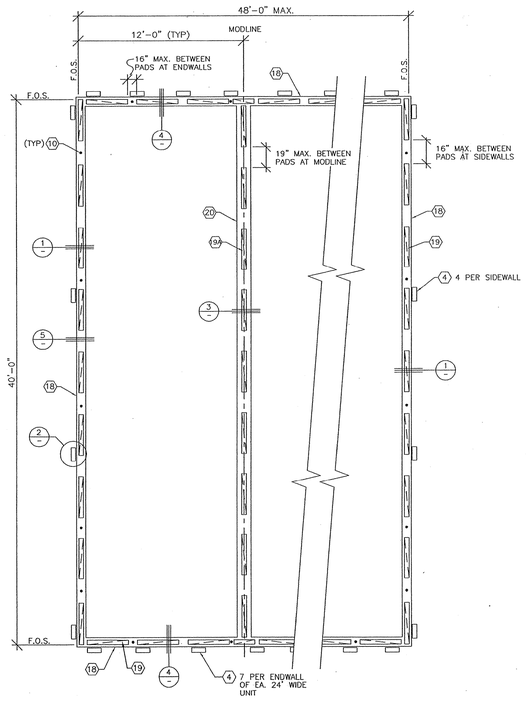
REVISIONS

SHEET NO.
R-1



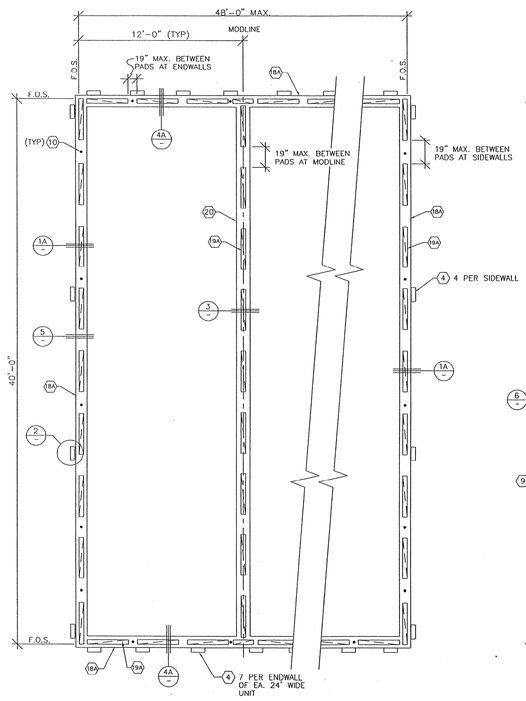
FOUNDATION PLAN W/ ADJACENT BUILDING

50 PSF FLOOR LIVE LOAD
20 PSF ROOF LOAD



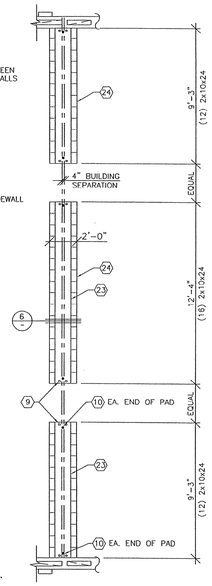
MULTI-WIDE FOUNDATION PLAN (N.T.S.)

50 P.S.F. FLOOR LIVE LOAD
20 PSF ROOF LOAD



MULTI-WIDE FOUNDATION PLAN (N.T.S.)

50 P.S.F. FLOOR LIVE LOAD
30 PSF ROOF LOAD



FOUNDATION PLAN W/ ADJACENT BUILDING

50 PSF FLOOR LIVE LOAD
30 PSF ROOF LOAD

KEYNOTES

1. MAXIMUM SOIL BEARING PRESSURE – 1000 PSF.
2. ALL FOUNDATION LUMBER SHALL BE H.F. #2
   ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT"
   ALL FOUNDATION NAILS SHALL BE CORROSION RESISTANT PER U.B.C. 2304A.3
3. 2x4 CONTINUOUS, INTERNAIL TO EACH PAD WITH 16d BOX NAILS @ 5" O.C. STAGGERED.

3A. 2x6 CONTINUOUS, INTERNAIL TO EACH PAD WITH 16d BOX NAILS @ 5" O.C. STAGGERED.

4. TIE PLATE – 12"x6"x10 Ga. PLATE W/ (8) 5/16" HOLES AS SHOWN FOR (4) 1/4"x 3/4" LONG SELF TAP SCREWS INTO CHANNEL & (4) 1/4"x 3" LAG BOLTS INTO 2x MEMBER. (TYP).
5. 5/8" PLYWOOD PERIMETER SKIRTING. NAIL TO FOUNDATION PADS WITH 8d BOX NAILS @ 12" O.C. TOP AND BOTTOM.
6. NOT USED.
7. TAPERED SHIMS – NAIL TO FOUNDATION PADS WITH 16d BOX NAILS @ 12" O.C. NAIL 2x12 FOUNDATION PLATE TO TAPERED SHIMS WITH 16d BOX NAILS @ 12" O.C. STAGGERED ALONG EACH TAPERED SHIM. (PER SLOPE OF GROUND AT SITE)
8. PLYWOOD OR WOOD SHIM – MIN. 8" LONG, MAX. 16" BETWEEN SHIMS. NAIL TO PLATES WITH MIN. (3) 16d BOX NAILS PER SHIM MAX. 1-1/2" SHIM HEIGHT AT ANY LOCATION.
9. 11/16ø" HOLE IN FLOOR JOIST FOR 5/8" x 4" LAG BOLT. (SEE SCHEDULE FOR AMOUNT)
10. DRIVE 1" DIA. x 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45 ANGLE TO VERTICAL.
11. 7"x9.8# STEEL FLOOR CHANNEL.
12. NOT USED
13. 5/8" MACHINE BOLT @ 10'-0" O.C. FOR MODULE CONNECTION.
14. PLYWOOD FLOOR DECK W/ 0.145"ø EN @ 6" O.C.

15.,16.,17. NOT USED

18. CONTINUOUS 2x8 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x4 BLOCK LOCATION.

18A. CONTINUOUS 2x10 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x6 BLOCK LOCATION

19. 2x4x3'-0" LONG BLOCKS. NAIL BLOCKS TOGETHER WITH 16d BOX NAILS @ 4" O.C. AND (2) 16d NAILS AT EACH END

19A. 2x6x3'-0" LONG BLOCKS. NAIL BLOCKS TOGETHER WITH 16d BOX NAILS @ 4" O.C. AND (2) 16d NAILS AT EACH END

20. CONTINUOUS 2x12 P.T.H.F. SILL PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2X6 BLOCK LOCATION.
21. FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.
22. NOT USED
23. CONTINUOUS 2x12x(SEE PLAN). NAIL (2) 16d AT EACH END AND 4" O.C.
24. 2x10x24" LONG SILL PADS. P.T.H.F. (SEE PLAN FOR QUANTITY)
25. CONTINUOUS 2x8 H.F. PLATE. PLATE SPLICES SHALL OCCUR AT CENTER OF 2x6 BLOCK LOCATIONS.

LAG SCHEDULE

BUILDING SIZE	FLOOR LOAD	LAG BOLTS AT EA. BUILDING
24'x40'	50 PSF	4
	50+20 PSF	4
	100 PSF	4
	125 PSF	6
36'x40'	50 PSF	6
	50+20 PSF	6
	100 PSF	6
	125 PSF	8
48'x40'	50 PSF	6
	50+20 PSF	6
	100 PSF	6
	125 PSF	10

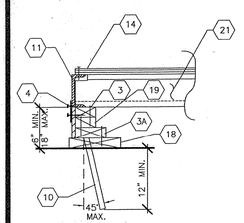
DATE SIGNED
JUL 15 2003

STATE OF CALIFORNIA
No. 3602
STRUCTURAL ENGINEER
LICENSE EXPIRES 6-30-2004

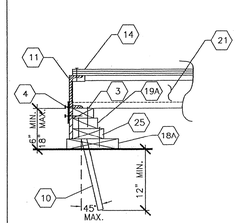
FACE PLATE SCHEDULE–20 & 30 PSF ROOF

BUILDING SIZE	FLOOR LOAD	FACE PLATES AT SIDES	FACE PLATES AT ENDS
24'x40'	50 PSF	4	7
	50+20 PSF	4	7
	100 PSF	4	7
	125 PSF	8	8
36'x40'	50 PSF	6	8
	50+20 PSF	6	8
	100 PSF	6	8
	125 PSF	9	11
48'x40'	50 PSF	6	8
	50+20 PSF	6	8
	100 PSF	6	8
	125 PSF	14	14

NOTE:
THE FACE PLATES SHOWN ON THE FOUNDATION PLAN ARE FOR A 24'x40' W/ 50 PSF FLOOR LOAD. USE THE SCHEDULE ABOVE TO DETERMINE THE REQUIRED FACE PLATES FOR OTHER BUILDING SIZES AND FLOOR LOADS.

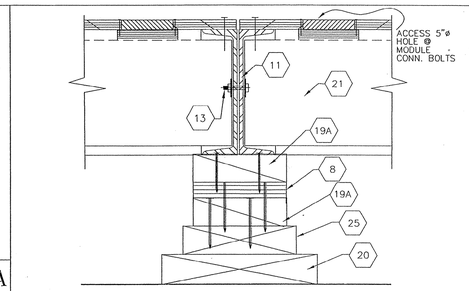


1

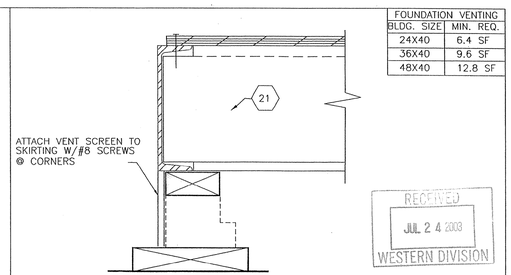


1A

FOUNDATION AT SIDEWALL 1



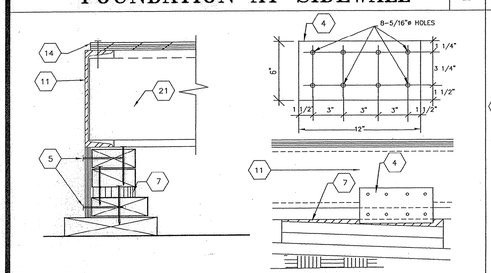
FOUNDATION AT MOD LINE 3



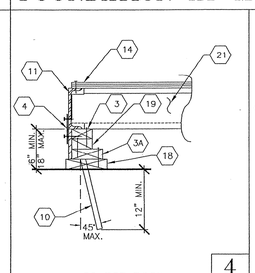
FOUNDATION VENTING	
BLDG. SIZE	MIN. REQ.
24X40	6.4 SF
36X40	9.6 SF
48X40	12.8 SF

RECEIVED
JUL 24 2003
WESTERN DIVISION

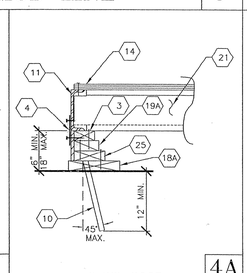
FOUNDATION VENTING 5



SHIMMING AND SKIRTING 2

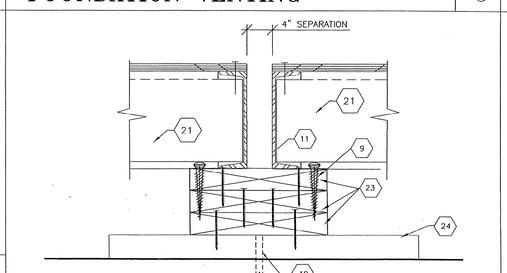


4

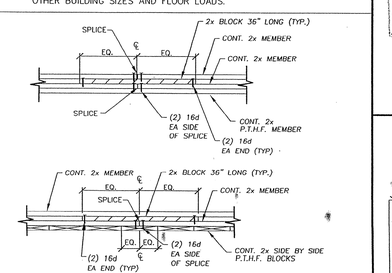


4A

FOUNDATION AT ENDWALL 4



COMMON PAD 6



TYP. SPLICE DETAILS 7

MSI
MODULAR STRUCTURES INTERNATIONAL, INC.
420 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507
PHONE: (909) 788-3535 FAX: (909) 788-1523

PROJECT: MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:
WOOD PAD FOUNDATION PLAN & DETAILS
W/ PLYWOOD FLOOR
WIND LOAD: 80 MPH
ROOF LOAD: 20 & 30 PSF
FLOOR LOAD: 50 PSF

ARCHITECT STAMP

DATE SIGNED
MAY 2 7 2003

STATE OF CALIFORNIA
No. 3602
STRUCTURAL ENGINEER
LICENSE EXPIRES 6-30-2004
STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
04 110 2253
AC. PLS SS
DATE JUL 17 2003
STATE AGENCY STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
4-104778
AC. FLS SS
DATE: 5-30-03
STATE AGENCY STAMP

JOB #

DATE 12-1-02

DRAWN BY J.C.

SCALE 1/4"=1'-0"

APPROVED

REVISIONS

SHEET NO.
F-1