BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

126 S. SNYDER AVE, TEHACHAPI, CA 93561

SHEETS IN SET 53

CODE REQUIREMENTS

ALL DRAWINGS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES:
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2022	CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022	CALIFORNIA BUILDING CODE (CBC(, PART 2, TITLE 24 CCR
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022	CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022	CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen), PART 11, TITLE 24 CCR
2022	CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
	TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2010	ADA STANDARDS FOR ACESSIBLE DESIGN

APPLICABLE STANDARDS
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

2022 NFPA 72, FIRE ALARM CODE (CA AMENDED)

NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT CONSTRUCTION IN CONFLICT WITH THE REQUIREMENTS OF ANY CODE, LAW, ORDINANCE, OR REGULATION. THE FOLLOWING AGENCIES SHALL HAVE JURISDICTION OVER THE PROGRESS OF THE WORK:

CAL/OSHA

REGULATORY SERVICES:
STRUCTURAL SAFETY SECTION
FIRE & LIFE SAFETY SECTION
ACCESS COMPLIANCE SECTION

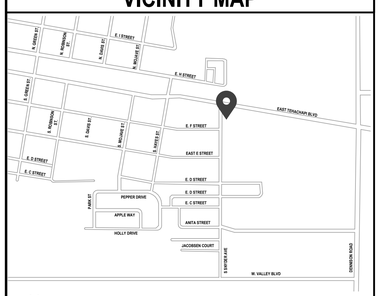
DIVISION OF THE STATE ARCHITECT

COUNTY OF KERN:
FIRE DEPARTMENT
PUBLIC WORKS DEPARTMENT

FIRE PROTECTION

1. PROVIDE ONE 4A 10 B.C. RATED EXTINGUISHER FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR - TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET.

VICINITY MAP



TEHACHAPI EDUCATION CENTER
126 S. SNYDER AVE, TEHACHAPI, CA 93561

GENERAL NOTES

1. THE DRAWINGS, IDEAS AND DESIGNS REPRESENTED HEREIN ARE THE PROPERTY OF THE ARCHITECT.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY AN OVERALL DESCRIPTION OF THE PROJECT IN SUFFICIENT DETAIL FOR ITS COMPLETE CONSTRUCTION. SOME CONDITIONS, WHICH ARE COMMONLY ENCOUNTERED IN CONSTRUCTION OF THIS TYPE AND/ OR CONDITIONS WHICH RELATE TO SPECIFIC PRODUCTS OR PROCESSES, MAY NOT BE SPECIFICALLY DETAILED IN THESE PLANS. ALL CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED COMPLETELY PER THE CURRENT STANDARDS OF THE APPROPRIATE INDUSTRY AND ANY APPLICABLE MANUFACTURER'S RECOMMENDATIONS.
3. NOTHING IN THE PLANS AND SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT CONSTRUCTION IN CONFLICT WITH THE REQUIREMENTS OF ANY CODE, LAW ORDINANCE OR REGULATION.
4. "TYPICAL" MEANS IDENTICAL FOR ALL SAME CONDITIONS UNLESS OTHERWISE NOTED. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN WITH THE ARCHITECT.
5. OTHERWISE NOTED. ALL PARTITIONS ARE DIMENSIONED TO CENTERLINE UNLESS
6. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF THE ARCHITECT, UNLESS OTHERWISE NOTED (+).
7. DO NOT SCALE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS.
8. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF EXISTING SLAB UNLESS NOTED OTHERWISE "AFF", ABOVE FINISH FLOOR.
9. ALL WORK SHALL BE SCHDULED AND PERFORMED SO AS NOT TO DISTURB OR CAUSE DAMAGE TO ADJACENT PROPERTIES.
10. ALL REVISIONS TO THE APPROVED PLANS, NO MATTER HOW MINOR, MUST BE APPROVED BY BOTH THE CITY PLANNING DEPARTMENT AND BUILDING INSPECTION DEPARTMENT, AS WELL AS THE ARCHITECT AND THE OWNER.
11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONSFOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION QUESTIONS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT BEFORE PROCCEEDING WITH WORK OR RELATED WORK IN QUESTION.
12. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE THE LAYOUT AND EXACT LOCATION OF ALL PARTITIONS, DOORS, PLUMBING, MECHANICAL, ELECTRICAL AND FIRE PROTECTION EQUIPMENT IN THE FIELD BEFORE PROCEEDING WITH CONSTRUCTION.
13. THE GENERAL CONTRACTOR SHALL FURR ALL COLUMNS TO THEIR MINIMUM POSSIBLE DIMENSIONS, U.N.O.
14. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE PROJECT AND SHALL BE RESPONSIBLE FOR DISIPLINE OF ALL WORKERS ON THE PROJECT.
15. ALL DECORATIVE MATERIALS AND TRIM SHALL COMPLY WITH CALIFORNIA BUILDING CODE, SECTION 806.1
16. JOINTS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION PER CEC 110.7
17. THE CALIFORNIA ENERGY C0DE SECTION 10-102 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
18. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
19. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
20. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
21. A LISTING OF CERTIFED ATT CAN BE FOUND AT: https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance
22 THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/ INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
23. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCETPANCE TESTS HAVE BEEN COMPLETED
24. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
25. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICTIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA.
26. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHLL BE MADE BY AN ADDENDUM OF A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
27. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
28. INSPECTOR CLASS = 2
29. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
30. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1. TITLE 24, CCR)
31. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

ACCESSIBILITY STANDARDS

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 POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORTRATED INTO THESE CONSTRUCION DOCUMENTS. ANY NON COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FIND OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

1. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATION BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP AND TURN OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
2. MAXIMUM EFFORT TO OPERATE 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.
3. CONSTRUCTION: THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAMES ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
4. FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS SHALL MEET THIS OPENING WIDTH REQUIREMENT.
5. IN ADDITION TO ALL LOCAL CODES, ACCESSIBILITY REQUIREMENTS SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE, TITLE 24, AS WELL AS FEDERAL A.D.A., (AMERICANS WITH DISABILITIES ACT).

BUILDING LEGEND

BUILDING	TYPE	APP #	DSA CERTIFICATION
BUILDING '1'	MULTI-PURPOSE	14771 46228 52675	14771 PRE-TRACKER INFO. NOT AVAILABLE 46228 CLOSED WITH CERT. #2 52675 CLOSED WITH CERT. #1
BUILDING '2'	GYMNASIUM	4092 46228 52675	4092 APPROVED AUGUST 7, 1944 46228 CLOSED WITH CERT. #2 52675 CLOSED WITH CERT. #1
BUILDING '3'	CLASSROOMS	11066 46228	11066 PRE-TRACKER INFO. NOT AVAILABLE 46228 CLOSED WITH CERT. #2
BUILDING '4'	ADMIN	69 46228 52675	69 PRE-TRACKER INFO. NOT AVAILABLE 46228 CLOSED WITH CERT. #2 52675 CLOSED WITH CERT. #1
BUILDING '5'	CLASSROOMS	4835 46228 52675	4835 PRE-TRACKER INFO. NOT AVAILABLE 46228 CLOSED WITH CERT. #2 52675 CLOSED WITH CERT. #1
BUILDING '6'	CLASSROOMS	14771 46228 52675	4835 PRE-TRACKER INFO. NOT AVAILABLE 46228 CLOSED WITH CERT. #2 52675 CLOSED WITH CERT. #1
BUILDING '7'	WORKSHOP	11066 46228 52675	11066 PRE-TRACKER INFO. NOT AVAILABLE 46228 CLOSED WITH CERT. #2 52675 CLOSED WITH CERT. #1
BUILDING '8'	CLASSROOMS	52675	52675 CLOSED WITH CERT. #1

EXIT REQUIREMENTS

1. ALL EXITS SHALL BE OPENABLE DURING BUSINESS HOURS FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE. NO DEAD OR SLIDING BOLTS. NO LATCH OR LATCHING DEVICE EXCEPT PANIC HARDWARE PERMITTED.
2. EXIT SIGNS MUST BE INTERNALLY ILLUMINATED.
3. PROVIDE TWO SEPARATE CIRCUITS FOR EXIT SIGNS.
4. PROVIDE TWO SEPARATE SOURCES OF POWER FOR EXIT SIGNS.

ABBREVIATIONS

abandon	ABAN
abbreviation	ABBRV
above finish floor	AFF
above finished grade	AFG
accessible	ACC
addendum	ADDM
additional	ADDL
adjustable	ADJ
air condition	A/C
alternate	ALT
aluminum	ALU
anchor bolt	AB
angle	L
approved	APPD
approximate	APPROX
architect	ARCH
architect/engineer	A/E
assembly	ASSY
audio visual	AV
avenue	AVE
average	AVG
beam	BM
beam, standard	S BM
beam, wide flange	WF BM
bearing	BRG
bearing plate	BRG PL
below	BLW
below finish floor	BFF
board	BD
both faces	BF
both sides	BS
bottom	BOT
boulevard	BLVD
boundary	BDRY
bronze	BRZ
build	BLD
cabinet	CAB
cable television	CTV
cast iron	CI
ceiling	CLG
ceiling grill	CLG GRL
ceiling height	CLG HT
ceiling register	CLG REG
cement	CEM
center	CTR
center line	CL
center to center	C to C
ceramic	CER
chamfer	CHFR
circle	CIR
class	CL
cleanout to grade	CTG
clear	CLR
cold water piping	CW
column	COL
common	COM
complete	COMPL
component	COMP
concrete	CONC
concrete masonry unit	CMU
condensate	CNDS
condition	COND
conduit	CND
construction	CONSTR
consultant	CONSULT
contractor	CONTR
contract documents	CD
cubic yard	CU YD
current	CUR
datum	DAT
deep	D
definition	DEF
degree	DGR
delete	DEL
demolition	DEMO
design build	D-B
detail	DTL
diagonal	DIAG
diameter	DIA
dimension	DIM
dishwasher	DW
dispenser	DISP
distance	DIST
division	DIV
document	DOC
domestic	DOM
domestic water supply	DWS
door	DR
double double glaze	DBL
douglas fir	DOUG FIR
downspout	DS
drain	DR
drawer	DWR
drinking fountain	DF
each	EA
each end	EE
each way	EW
easement east	ESMT
elementary	ELEM
elevation	EL
elevator	ELEV
enamel	ENAM
enclosure	ENCL
equal	EQ
equipment	EQUIP
equivalent	EQUIV
estimate	EST
exhaust	EXH
exhaust fan	EXH FN
exhaust hood	EXH HD
existing	EXIST
existing grade	EXIST GR
exterior	EXT
exterior finish	EF
exterior finish system	EFS
extinguisher	EXT
face brick	FAB
face of stud	FOS
fascia board	FAS BD
feet	FT
fence	FN
finish	FIN
finish floor	FF
finish floor elevation	FF EL
fire alarm	FA
fixture	FIXT
floor	FLR
floor drain	FD
floor finish	F FIN
fluorescent	FLUOR
foot	FT
footing	FOOTING
foundation	FDTN
furnish	FURN
furring	FURG
galvanized	GALV
garbage disposal	G DISP
gas bibb	GB
general	GEN
glass	GL
glazing	GLZ
glue laminated wood	GLU-LAM
gypsum board	GYP BD
hardware	HDW
hardwood	HDWD
header	HDR
holddown	HLDN
hollow core	HC
hose bibb	HB
hot water	HW
insulation	INSUL
interior	INT
junction box	J-BOX
ladder	LAD
landscape	LNDSCP
lavatory	LAV
linear feet (foot)	LF
louver	LVR
lumber	LUM
manufacturer	MFR
mechanical	MECH
metal	MTL
minimum	MIN
modify	MOD
mounted	MTD
north	N
on center	OC
opposite	OPP
out to out	O/O
outside face of studs	OFS
over	O/
paint	PT
pair	PR
panel	PNL
parapet	PAR
partition	PTN
paving	PVG
penny (nail)	d
percent	PCT
pilaster	PIL
pipe rail	PR
plaster	PLAS
plastic laminate	PLAM
plumbing	PLBG
plywood	PLYWD
polished	POL
polyethylene (plastic)	POLY
portland cement	PC
prefinish	PREFIN
preliminary	PRELIM
project	PROJ
property line	PL
radius	R
redwood	RDW
refrigerator	REF
register	REG
return air	RA
revision	REV
right	RT
rough opening	RO
schedule	SCHED
schematic	SCHEM
section	SECT
select	SEL
sewer	SWR
sheet metal	SM
sheet vinyl	SV
shelving	SHV
shower	SHR
sidewalk	SW
siding	SDG
similar	SIM
single	SGL
smooth	SM
soap dispenser	SD
solid core	SC
sound insulation	SND INS
south	S
speaker	SPKR
specification	SPEC
sprinkler	SPKLR
square	SQ
square feet (foot)	SQ FT
squiare inch	SQ IN
square yard	SQ YD
stainless steel	SS
stairs	ST
standard	STD
steel joist	STL JST
storage	STOR
storm drain	SD
street	ST
stringers	STR
structural	STRUCT
substitue	SUB
supply air	SA
support	SPRT
surface	SUR
surface four sides	S4S
surface two sides	S2S
surface one side	S1S
switch	SW
symbol	SYM
table contents	TOC
tackboard	TKBD
telephone	TEL
television	TV
tempered glass	TEMP GLAS
through	THRU
transfer	XFER
transformer	XFMR
transparent	TRANS
typical	TYP
uniform	UNIF
uniform building code	UBC
uniform fire code	UFC
uniform plumbing code	UPC
urinal	UR
utility	UTIL
valve box	VB
vanity	VAN
varies	VAR
veneer	VNR
verify	VRFY
vertical	VERT
vestibule	VEST
video	VID
wainscot	WC
waste	WST
water	WTR
water closet	WC
welded	WLD
welded wire mesh	WWM
west	W
wide flange	WF
window	WDW
without	W/O
wood	WD
wrought iron	WI
yard	YD
year	YR

NTS

PROJECT DIRECTORY

OWNER'S REP.
Tehachapi Unified School District
300 South Robinson St,
Tehachapi, Ca 93561
Phone: (661) 822-2100
Fax: (661) 822-8221
KIRK GILBERT

ARCHITECT
Ordiz Melby Architects, Inc.
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
Phone: (661) 832-5258
Fax: (661) 832-4219
JEANNIE BERTOLACCINI

FABRICATOR
Irwin Seating Company
610 East Cumberland Road,
Altamont, IL 62411
Phone: (618) 483-6157

MECH./PLUMB.
Baskin Mechanical Engineers, Inc
2131 19th ST,
Bakersfield, CA 93301
Phone: (559) 237-0376
Mark Baskin

CIVIL
Afinar Civil Engineer
214 Bernard Street,
Bakersfield, CA 93305
Phone: (661) 716-7443
Bernard Salgado

ELECTRICAL
JMPE Electrical Engineering
Lighting Design
5500 Ming Ave, Suite 251
Bakersfield, CA 93309
Phone: (661) 831-7851
Fax: (661) 831-7813
John Maloney

STRUCTURAL
Anacapa Engineering and Design
9100 Ming Ave, Ste 110,
Bakersfield, CA 93311
Phone: (661) 342-0121
Ramon Sanchez

PROJECT INFORMATION

CONSTRUCTION TYPE:
EXISTING BUILDING '1': TYPE V-B
EXISTING BUILDING '2': TYPE II-B

OCCUPANCY TYPE:
EXISTING BUILDING '1': E
EXISTING BUILDING '2': A-3

ALLOWABLE BUILDING HEIGHT:
EXISTING BUILDING '1': 40'-0"
EXISTING BUILDING '2': 55'-0"

ACTUAL BUILDING HEIGHT:
EXISTING BUILDING '1': 14'-0"
EXISTING BUILDING '2': 35'-0"

ALLOWABLE STORIES:
EXISTING BUILDING '1': 1 STORY
EXISTING BUILDING '2': 1 STORY

ACTUAL STORIES:
EXISTING BUILDING '1': 1 STORY
EXISTING BUILDING '2': 1 STORY

ALLOWABLE AREA:
EXISTING BUILDING '1': 9500 S.F.
EXISTING BUILDING '2': 9500 S.F.

PROJECT AREA:
EXISTING BUILDING '1':

EXISTING BUILDING = 7420 S.F.
OVERHANG = 49 S.F.

BUILDING AREA = 7420< 9500 S.F. = OK

EXISTING BUILDING '2':

EXISTING BUILDING = 9304 S.F.
MEN'S RESTROOM REMODEL = 252 S.F.
WOMEN'S RESTROOM REMODEL = 267 S.F.
OVERHANG = 42 S.F.

BUILDING AREA = 9304 S.F. < 9500 S.F. = OK

FOR LOCATION OF FIRE RATED WALLS, SEE A-112 SITE PLAN

FIRE SPRINKLERS:
NO

SCOPE OF WORK

1. REMOVAL OF EXISTING BLEACHER SEATING AND INSTALLATION OF NEW BLEACHER SEATING IN EXISTING GYMNASIUM PER PC DRAWINGS A# 02-121254
2. ALTERATIONS TO EXISTING MALE AND FEMALE RESTROOMS IN EXISTING GYMNASIUM TO MEET CURRENT ADA ACCESSIBILITY STANDARDS
3. ALTERATIONS/ADDITION OF ACCESSIBLE PARKING STALLS TO EXISTING PARKING LOT TO MEET CURRENT ADA ACCESSIBILITY STANDARDS
4. CONCRETE FLATWORK AS REQUIRED TO MEET CURRENT ADA MAXIMUM SLOPE REQUIREMENTS IN PATH OF TRAVEL

ARCHITECT'S STATEMENT

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS / ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

☒ THE DRAWING PAGE OF SPECIFICATIONS, OR THE ATTACHED LIST OF DRAWINGS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OF CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT
3. THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 [b])

☒ THE DRAWINGS OR SHEETS LISTED ON THE SHEET INDEX SHEET

REFER TO SHEET INDEX FOR A LIST OF "DRAWINGS PREPARED BY OTHERS" INCLUDING ALL DRAWINGS AND / OR CALCULATIONS PREPARED BY:

IRWIN SEATING COMPANY-TELESCHOPIC DIVISION (PC A# 02-121254)

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

I CERTIFY THAT THIS DRAWING OR PAGE (CHECK BOTH BOXES):

☒ IS IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
☒ HAS BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

Jeanine S. Bertolaccini
ARCHITECTS SIGNATURE

ARCHITECTS OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

JEANNIE BERTOLACCNI
PRINT NAME

C-35596 — LICENSE NUMBER
OCTOBER 31, 2025 — EXPIRATION DATE

SHEET INDEX

SHEETS IN SET 53

GENERAL INFORMATION

G-001	GENERAL INFORMATION
G-002	EGRESS PLAN

CIVIL DRAWINGS

C-1	GRADING AND DRAINAGE PLAN

ARCHITECTURAL DRAWINGS

A-112	SITE PLAN: ACCESSIBILITY
A-113	SITE PLAN: ENLARGED AND SITE PLAN: DEMOLITION ENLARGED
A-120	FLOOR PLAN: DEMOLITION
A-121	FLOOR PLAN
A-122	FLOOR PLAN: ENLARGED
A-130	CEILING PLAN, CEILING PLAN-DEMO, FRAMING PLAN
A-231	INTERIOR ELEVATIONS
A-501	DETAILS
A-502	DETAILS
A-601	DOOR AND FINISH SCHEDULES

MECHANICAL AND PLUMBING DRAWINGS

MP-112	NOTES, SCHEDULES, & DETAILS
MP-120	DEMO FLOOR PLAN
MP-121	FLOOR PLAN

ELECTRICAL DRAWINGS

E-100	GENERAL NOTES, SYMBOLS, SCHEDULES & DETAILS
E-101	EXIT LIGHT PLAN
E-110	FIRE ALARM RISER DIAGRAM
E-111	FIRE ALARM CALCULATIONS
E-122	ENLARGED ELECTRICAL FLOOR PLAN
E-123	RESTROOM LIGHTING PLAN
E-200	FIRE ALARM SITE PLAN
E-201	EXISTING FIRE ALARM PLAN
E-202	FIRE ALARM FLOOR PLAN
E-300	ELECTRICAL SPECIFICATIONS
E-400	FIRE ALARM SPECIFICATIONS

IRWIN SEATING COMPANY PC#02-121254

S0	PROJECT COVER SHEET
A01	BUILDING
A02	PLAN
A03	ELEVATION
A04	ELECTRICAL
A05	FRAMING PLAN
S1	SPECIFICATIONS FOR IRWIN VERSATRACT BLEACHERS
S2	101 RISE PLAN, ELEVATION & FRAMING
S2A	ADDITIONAL DETAILS
S4	DECK AND SEAT ASSEMBLIES
S5	IDS-2 POWER SYSTEM
S7	POST ASSEMBLIES
S8	POST ASSEMBLIES CONT.
S9	DECK SUPPORTS
S10	DECK SUPPORTS CONT.
S11	BRACING
S12	BRACING CONT.
S13	WALL ATTACHMENT DETAILS
S14	FLOOR ATTACHMENT DETAILS
S15	END RAILS
S15A	CLOSURE CURTAINS
S16	AISLE STEPS
S17	AISLE HANDRAIL
S18	ACCESSIBLE SPACES
S19	ACCESSIBLE SPACES CONT.
S20	DIMENSIONS-10" RISE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280 o: (661) 832-5258
Bakersfield, CA 93309 f: (661) 832-4291
www.ordizmelby.com

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14728

MANUEL MALDONADO JR., AIA
ARCHITECT C-36294

ROBERT TROST, AIA
ARCHITECT C-14762

JEANINE S. BERTOLACCINI, AIA
ARCHITECT C-35596

JAMES R. VARNER, AIA
ARCHITECT C-10963

JOSEPH E. ZASOSKI, AIA
ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

THE DRAWINGS, IDEAS, AND DESIGNS REPRESENTED ON THIS SHEET ARE THE PROPERTY OF THE ARCHITECT.

SHEET TITLE

GENERAL INFORMATION

SHEET IDENTIFICATION NUMBER

G-001

SHEETS IN SET 53

EGRESS LEGEND

OFFICE — ROOM NAME
100 — ROOM NUMBER
A: 200 SF — SQUARE FOOTAGE
100 / X — OCCUPANT LOAD FACTOR
OCCUPANT LOAD
XX — SUB-TOTAL OCCUPANT LOAD
XXX — OCCUPANT LOAD AT EXIT
X.X / XX — REQUIRED EXIT WIDTH / PROVIDED EXIT WIDTH
X' — PATH OF EGRESS TRAVEL; X' = COMMON PATH OF TRAVEL DISTANCE

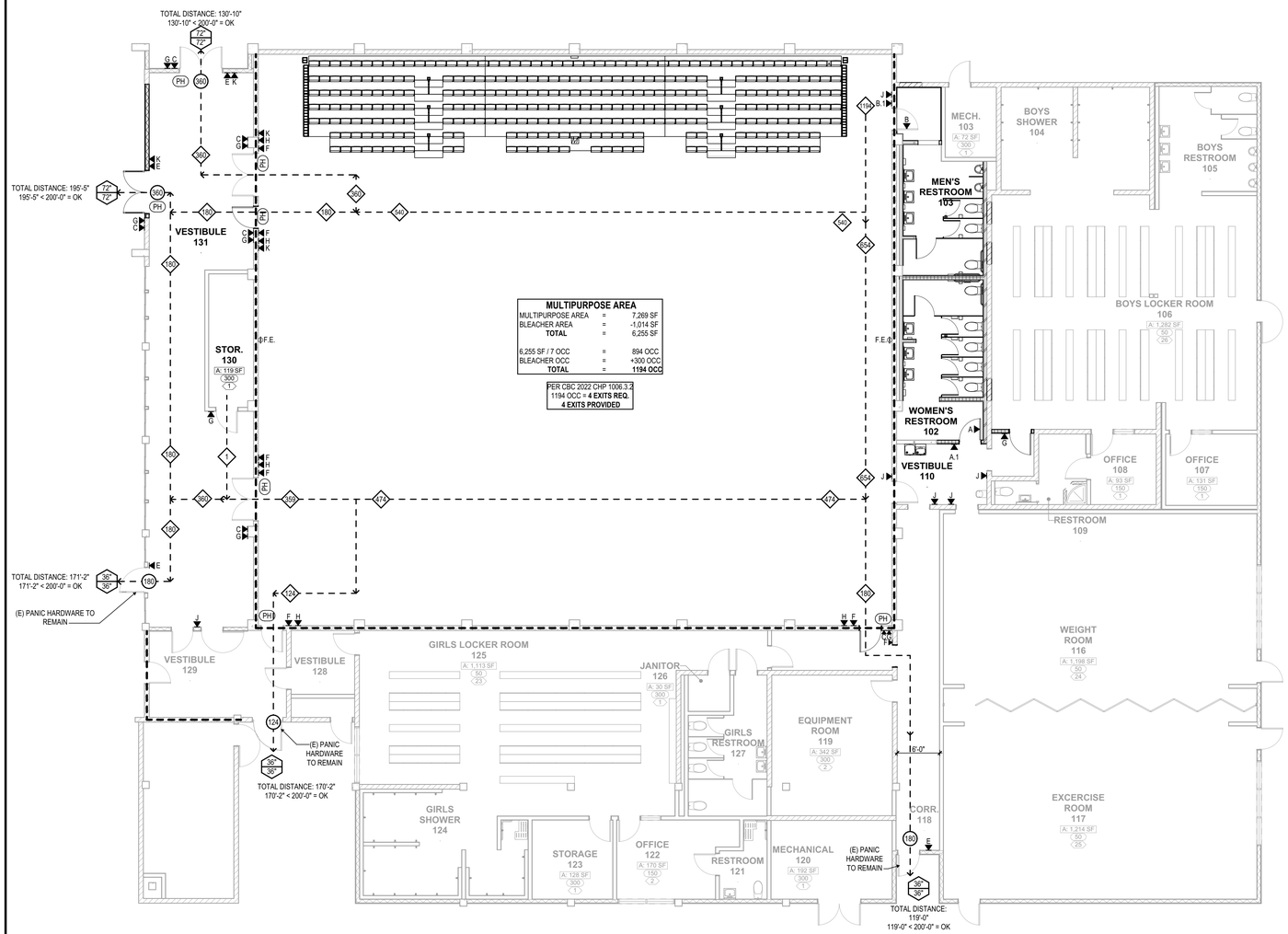
PH — PANIC HARDWARE
X — SIGNAGE SYMBOL, REFER TO E1/A-501
(E) 2 HOUR FIRE RATING
F.E. — SURFACE MOUNTED FIRE EXTINGUISHER

EGRESS WIDTH PER OCCUPANT SERVED (2022 C.B.C SECTION 1005.1) WITH SPRINKLER SYSTEM = 0.2"

SIGNAGE LEGEND

A — 12" DIA. — WOMEN / GIRLS
A.1 — GIRLS
B — 12" TYP. — MEN / BOYS
B.1 — BOYS
C — 18" MIN. / 48" MAX.
D
E — EXIT
F — EXIT ROUTE
G — ROOM ID (TACTILE) — SEE NOTE 1
H — MAXIMUM OCCUPANT LOAD XXX — SEE NOTE 2
J — NOTICE NOT AN EXIT
K — ASSISTIVE LISTENING SYSTEM AVAILABLE

NOTES:
1. ROOM DESIGNATION SIGNS TO BE COORDINATED WITH OWNER
2. FOR SIGNS DESIGNATING OCCUPANT LOAD, REFER TO SHEET G-002, CODE ANALYSIS, FOR ACTUAL OCCUPANT LOAD PER ROOM - VERIFY LOCATION.
3. REFER TO DETAIL E1/A-501 FOR ADDITIONAL INFORMATION



A1 CODE ANALYSIS / EGRESS PLAN / SIGNAGE

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

PLOT TIME: 3:38 PM
PLOT DATE: 3/26/25

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

JEANINE S. BERTOLACCINI C-35596 — LICENSED ARCHITECT — STATE OF CALIFORNIA
OCTOBER 31, 2025 RENEWAL DATE

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36234
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

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A#: 03-124361
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CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

SHEET TITLE

EGRESS PLAN

SHEET IDENTIFICATION NUMBER

G-002

SHEETS IN SET 53

GRADING PRIVATE ON SITE PAVING ONLY:

1. GRADING SHALL CONFORM TO STANDARDS, SPECIFICATIONS, AND REQUIREMENTS OF THE LATEST EDITION OF THE BUILDING CODE AS ADOPTED BY THE LOCAL GOVERNING AGENCY, CITY OF TAFT DEVELOPMENT STANDARDS, AND TO THE REQUIREMENTS OF THE PRELIMINARY SOILS REPORT PREPARED FOR THIS PROJECT BY:

– ON FILE WITH THE SCHOOL DISTRICT–

NOTE: SHOULD A CONFLICT OCCUR BETWEEN THE FOLLOWING NOTES AND THE SOILS REPORT. THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL.

2. THE CONTRACTOR SHALL REMOVE AND OR RELOCATE ALL OBSTRUCTIONS WITHIN THE IMPROVEMENT AREA AS DIRECTED IN THESE PLANS.

3. ALL EXISTING IMPROVEMENTS THAT ARE REMOVED, DAMAGED, OR UNDERCUT SHALL BE REPAIRED OR REPLACED AS DIRECTED BY AFFECTED AGENCY.

4. ALL CUT SLOPES SHALL BE NO STEEPER THAN (2) TWO HORIZONTAL TO (1) ONE VERTICAL.

5. ALL FILL SLOPES SHALL BE NO STEEPER THAN (2) TWO HORIZONTAL TO (1) ONE VERTICAL.

6. ALL VEGETABLE MATTER SHALL BE REMOVED FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED, AND THE SURFACE SHALL BE PLOWED SCARIFIED TO A DEPTH OF AT LEAST TWELVE INCHES (12"), AND 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.

7. FILL MATERIALS: MATERIALS FOR FILL SHALL CONSIST OF MATERIAL SELECTED BY THE SOILS ENGINEER FROM SOURCES IDENTIFIED IN LABORATORY REPORTS. THE MATERIAL USED SHALL BE FREE FROM VEGETABLE MATTER AND OTHER DELETERIOUS SUBSTANCES AND SHALL NOT CONTAIN ROCKS OR LUMPS HAVING A DIAMETER OF OR MORE THAN SIX INCHES (6").

8. AMOUNT OF COMPACTION: AFTER EACH LAYER (LIFT) HAS BEEN PLACED, MIXED AND SPREAD EVENLY, IT SHALL BE THOROUGHLY COMPACTED TO THE SPECIFIED DENSITY. THE SPECIFIED DENSITY WILL BE STATED AS A PERCENTAGE OF THE MAXIMUM DENSITY ATTAINABLE USING CURRENT ASTM DENSITY TEST NO. D 1557 THE SPECIFIED DENSITY TYPICALLY WILL BE NINETY PERCENT (90%) OF THE MAXIMUM FOR MOST COHESIVE, NON–EXPANSIVE SOILS, HOWEVER IT WILL BE ESTABLISHED AS APPROPRIATE FOR THE MATERIALS AND ENVIRONMENT DEFINED. FILL COMPACTION SHALL CONFORM TO U.B.C. STANDARDS AND LOCAL GRADING STANDARDS.

9. DEPTH AND MIXING OF FILL LAYERS: THE SELECTED FILL MATERIAL SHALL BE PLACED IN LEVEL, UNIFORM LAYERS WHICH, WHEN COMPACTED, SHALL HAVE A DENSITY CONFORMING TO THAT STIPULATED IN THESE PLANS OR THE SOILS REPORT. EACH LAYER SHALL BE THOROUGHLY BLADE MIXED DURING THE SPREADING TO INSURE UNIFORMITY OF MATERIALS IN EACH LAYER. COMPACTED LAYER THICKNESS NORMALLY WILL BE SIX (6"), HOWEVER, IT MAY BE SPECIFIED OTHERWISE IF COMPACTION EQUIPMENT OF DEMONSTRATED CAPABILITY WILL BE USED.

10. COMPACTING AREA TO BE FILLED: AFTER THE FOUNDATION FOR THE FILL HAS BEEN CLEARED AND PLOWED OR SCARIFIED, IT SHALL BE DISKED OR BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS, BROUGHT TO THE PROPER MOISTURE CONTENT, AND COMPACTED (TYPICALLY) TO NOT LESS THAN NINETY (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH CURRENT ASTM DENSITY TEST NO. D 1557, OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE FOR THE MATERIALS AND CONDITIONS AND ACCEPTABLE TO THE ENGINEER AND OR INSPECTORS.

11. ROCK: WHEN FILL MATERIAL INCLUDES ROCK, THE MAXIMUM ROCK SIZE ACCEPTABLE SHALL BE SIX INCHES (6"). NO LARGE ROCKS SHALL BE ALLOWED TO NEST AND ALL VOIDS MUST BE CAREFULLY FILLED WITH SMALL STONES OR EARTH, PROPERLY COMPACTED. NO LARGE ROCKS WILL BE PERMITTED WITHIN TWELVE INCHES (12"), OF THE FINISHED GRADE.

12. MOISTURE CONTENT: THE FILL MATERIAL SHALL BE COMPACTED AT THE APPROPRIATE MOISTURE CONTENT SPECIFIED FOR THE SOILS BEING USED, AS IDENTIFIED IN LABORATORY AND SOILS REPORT. MOISTURE CONTENT TOLERANCES SHOULD BE CLEARLY DEFINED FOR PLACEMENT OF EACH MATERIAL PROPOSED FOR USE IN A FILL. APPROPRIATE MOISTURE CONTENT IS DEFINED TYPICALLY, AS OPTIMUM MOISTURE CONTENT, HOWEVER FOR EXPANSIVE SOILS IT MAY BE GREATER THAN OPTIMUM MOISTURE CONTENT, AND OTHER MOISTURE CONTENTS MAY BE NECESSARY TO PRODUCE THE DESIRED RESULTS WITH SPECIFIC SOILS.

13. DENSITY TESTS: FIELD DENSITY TEST SHALL BE MADE BY THE SOILS ENGINEER OF THE COMPACTION OF EACH LAYER OF FILL. DENSITY TEST SHALL BE TAKEN IN THE COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OF PORTION SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN OBTAINED. SUFFICIENT DENSITY TESTS SHALL BE MADE TO SUPPORT THE SOILS ENGINEER'S CERTIFICATION OF EACH FILL LAYER.

14. REPRESENTATIVES OF THE SOILS ENGINEER WILL OBSERVE THE WORK IN PROGRESS, MAKE TESTS OF THE SOIL, AND REVIEW THE EXCAVATIONS AND TRENCHES. THE PROJECT CIVIL ENGINEER WILL OBSERVE GRADING OPERATIONS TO FACILITATE SUBSTANTIAL COMPLIANCE WITH THE PLANS. SPECIFICATIONS AND CODES WITHIN HIS PURVIEW. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND TECHNIQUES, SEQUENCES AND PROCEDURES. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. INTERMITTENT VISITS BY THE SOILS ENGINEER OR THE PROJECT CIVIL ENGINEER DO NOT INCLUDE REVIEW OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

15. GRADING WORK SHALL BE DONE IN A MANNER TO PREVENT STORM DAMAGE TO PUBLIC OR PRIVATE PROPERTY OF OTHERS BY FLOODING, EROSION, DEPOSITION, DEBRIS, OR ANY OTHER DAMAGE RESULTING FROM THE GRADING WORK.

16. SURFACE DRAINAGE SHALL HAVE A MINIMUM SLOPE OF TWO PERCENT AWAY FROM ALL STRUCTURES.

17. THE GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT SHALL BE NOTIFIED BY THE CONTRACTOR OF THE OWNER A MINIMUM OF 48 HOURS PRIOR TO THE TIME THAT GRADING IS TO COMMENCE AND THE CONTRACTOR OR THE OWNER SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR THEIR INSPECTIONS.

18. THE SOILS ENGINEER SHALL BE NOTIFIED SUFFICIENTLY IN ADVANCE TO PERMIT EXAMINATION OF SUBGRADE AND TESTING OF FILL AND FINAL GRADES. THE SOILS ENGINEER SHALL BE NOTIFIED OF ANY CONDITION THAT MAY EFFECT THE PROJECT.

19. COMPACTION IN PROPOSED PAVEMENT AREAS SHALL EXTEND TO A MINIMUM DISTANCE OF (2) FEET BEYOND THE OUTSIDE EDGE OF PAVEMENTS.

20. DURING GRADING, REASONABLE SEARCHING SHOULD BE PERFORMED FOR CANCELED SUBSURFACE OBSTRUCTIONS. ALL ABANDONED SUBSURFACE OBSTRUCTIONS SHOULD BE REMOVED. IF THE TERMINUS OF ANY ABANDONED PIPING IS OUTSIDE THE PROJECT LIMITS, THE PIPING SHOULD BE REMOVED WITHIN THE PROJECT AND PROPERLY CAPPED AT THE PROJECT BOUNDARY.

21. CONTRACTOR TO COORDINATE WITH INSPECTOR AND DEVELOPER, THE LOCATION OF THE BORROW OR SPOILS PRIOR TO CONSTRUCTION.

22. THE LOCATION OF EXISTING UTILITIES AND UNDERGROUND PIPELINES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES BEFORE COMMENCING WORK, CONTRACTOR ASSUMES ALL LIABILITY FOR ANY AND ALL UNDERGROUND UTILITIES AND PIPELINES.THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE REMOVAL OR RELOCATION OF ANY AND ALL EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY. COST OF THIS COORDINATION IS TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS IMPROVEMENTS TO COMPLETE THE PROJECT.

23. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AND THE LOCAL PUBLIC WORKS DEPARTMENT AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO MARK THE LOCATIONS OF EXISTING UTILITY LINES. 811

24. SITE GRADING. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5%) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. EXCEPTION: WHERE CLIMATIC OR SOIL CONDITIONS WARRANT, THE SLOPE OF THE GROUND AWAY FROM THE BUILDING FOUNDATION SHALL BE PERMITTED TO BE REDUCED TO NOT LESS THAN 1%.

CONCRETE NOTES:

1. TOP OF CURB TO BE TROWELED AND HAVE A LIGHT BRUSHED FINISH. GUTTER TO BE TROWELED AND HAVE A LIGHT BRUSHED FINISH.

2. ½" TO ⅝" FELT EXPANSION JOINT TO BE PLACED AT CURVE RETURNS AND DEEP SCORE JOINTS PLACED AT A MAXIMUM OF 10 FEET.

3. SAND SHALL BE CLEAN RIVER SAND FREE FROM ORGANICS, DIRT AND/OR DEBRIS.

4. AGGREGATE BASE CONFORM TO SECTION 26, CLASS II PER CALTRANS SEC 26 SPECIFICATIONS

5. FOR CONTINUOUS MACHINE CURB & GUTTER, THE #3 TIES @ 36" O.C. MAY BE DELETED IF THE CONCRETE MIX INCLUDES A MINIMUM OF 1 LB PER YARD OF CONCRETE NYLON PROCONN FIBER

6. WEAKENED PLANE JOINTS SHALL BE IN SIDEWALK AND CURB & GUTTER @ 10' ON CENTER MAXIMUM.

7. EXPANSION JOINTS SHALL BE INSTALLED IN SIDEWALK AT 40' O.C. MAXIMUM

8. EXPANSION JOINTS SHALL BE INSTALLED IN SIDEWALK AND CURB & GUTTER CURB RETURNS

9. CONCRETE SHALL TYPE II OR IV CLASS 3 BE 6 SACK CEMENT PER CUBIC YARDS

10. CONCRETE VALLEY GUTTER SHALL HAVE WEAKENED PLANE JOINT @ 15' O.C, TOOL EDGES OF JOINT.

11. PROVIDE EXPANSION JOINT IN CONCRETE GUTTER @ 90' O.C, TOOL EDGES OF JOINT.

12. JOINTS IN ADJACENT SIDE WALKS AND CURB TO MATCH

13. REBAR SHALL CONFORM TO ASTM A615 AND BE GRADE 40 FOR REBAR #3 AND GRADE 60 FOR REBAR #5 AND LARGER.

ASPHALT NOTES

1. ASPHALTIC CONCRETE AND EARTHWORK SHALL CONFORM TO SECTION 39 AND 19 OF THE STATE STANDARD SPECIFICATION LATEST EDITION.
 1.1. CLASS II AGGREGATE BASE
 1.2. TYPE B HMA HOT MIX ASPHALT

2. RECLAIMED AGGREGATE BASE – THICKNESS OF RECLAIMED AGGREGATE BASE STATE STANDARD SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS,
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES WHETHER SHOWN OR NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING FACILITIES FROM DAMAGE DURING CONSTRUCTION.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER OF PROJECT CIVIL ENGINEER.

2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURVEY MONUMENTS. ANY SURVEY MONUMENTS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

3. THE CONTRACTOR 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 CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY.

4. AN ENCROACHMENT PERMIT FROM THE CITY SHALL BE OBTAINED PRIOR TO THE BEGINNING OF ANY WORK OR CONSTRUCTION WITHIN THE STREET.

5. ALL EXCAVATIONS SHALL BE BACK FILLED AT THE END OF EACH WORKING DAY AND ROADS OPEN TO VEHICULAR TRAFFIC UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

6. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTY OWNERS FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUN–OFF AND/OR DISPLACEMENT OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONJUNCTION WITH CONSTRUCTION OF THESE IMPROVEMENTS.

7. THE CONTRACTOR SHALL, AT NO COST TO THE CITY, PROVIDE ALL NECESSARY SAMPLES AND TESTS THAT THE CITY ENGINEER MAY REQUIRE TO ENSURE THAT QUALITY OF MATERIAL AND WORKMANSHIP ARE IN ACCORDANCE WITH THE CITY SPECIFICATIONS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND SHALL MAINTAIN ALL FACILITIES (COMPLETE AND/OR INCOMPLETE) UNTIL ACCEPTED BY THE DISTRICT.

9. THE CONTRACTOR SHALL ADJUST ALL EXISTING VALVE COVERS, MAN HOLES AND AND UTILITY BOXES AS NEEDED TO ACCOMMODATE NEW IMPROVEMENTS.

10. ALL MANHOLE AND MONUMENT ENCASEMENT COVERS SHALL BE SET 1/4" BELOW PAVEMENT GRADE.

11. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

25. IMPORTANT NOTICE – SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE ANY "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT TOLL FREE AT 811, TWO WORKING DAYS BEFORE YOU DIG.

DUST CONTROL:

1. PORTABLE WATER WILL BE APPLIED TO DISTURBED SOIL AREAS OF THE PROJECT SITE TO CONTROL DUST AND MAINTAIN OPTIMUM MOISTURE LEVELS FOR COMPACTION. THE WATER WILL BE APPLIED USING WATER TRUCKS. AS SHOWN ON THE PROJECT SCHEDULE, PROJECT SOILS WILL BE DISTURBED AND EXPOSED FROM APPROXIMATELY MAY 1 THROUGH SEPTEMBER 15. WATER APPLICATIONS WILL BE CONCENTRATED DURING THE LATE SUMMER AND EARLY FALL MONTHS.

2. BMP WE–1, WIND EROSION CONTROL, AND BMP NS–1, WATER CONSERVATION PRACTICES, WILL BE IMPLEMENTED TO PROVIDE DUST CONTROL AND PREVENT DISCHARGES FROM DUST CONTROL ACTIVITIES AND WATER SUPPLY EQUIPMENT. WATER APPLICATION RATES WILL BE MINIMIZED AS NECESSARY TO PREVENT RUNOFF AND PONDING AND WATER EQUIPMENT LEAKS WILL BE REPAIRED IMMEDIATELY.

- MOST DUST CONTROL MEASURES REQUIRE FREQUENT, OFTEN DAILY, OR MULTIPLE TIMES PER DAY ATTENTION.

3. DURING WINDY CONDITIONS (FORECAST OR ACTUAL WIND CONDITIONS APPROXIMATELY 25 MPH OR GREATER), DUST CONTROL WILL BE APPLIED TO DISTURBED AREAS, INCLUDING HAUL ROADS, TO ADEQUATELY CONTROL WIND EROSION.

4. BMP WM–3, STOCKPILE MANAGEMENT, USING SILT FECES AND PLASTIC COVERS WILL BE IMPLEMENTED TO PREVENT WIND DISPERSAL OF SEDIMENT FROM STOCKPILES.

NPDES NOTES:

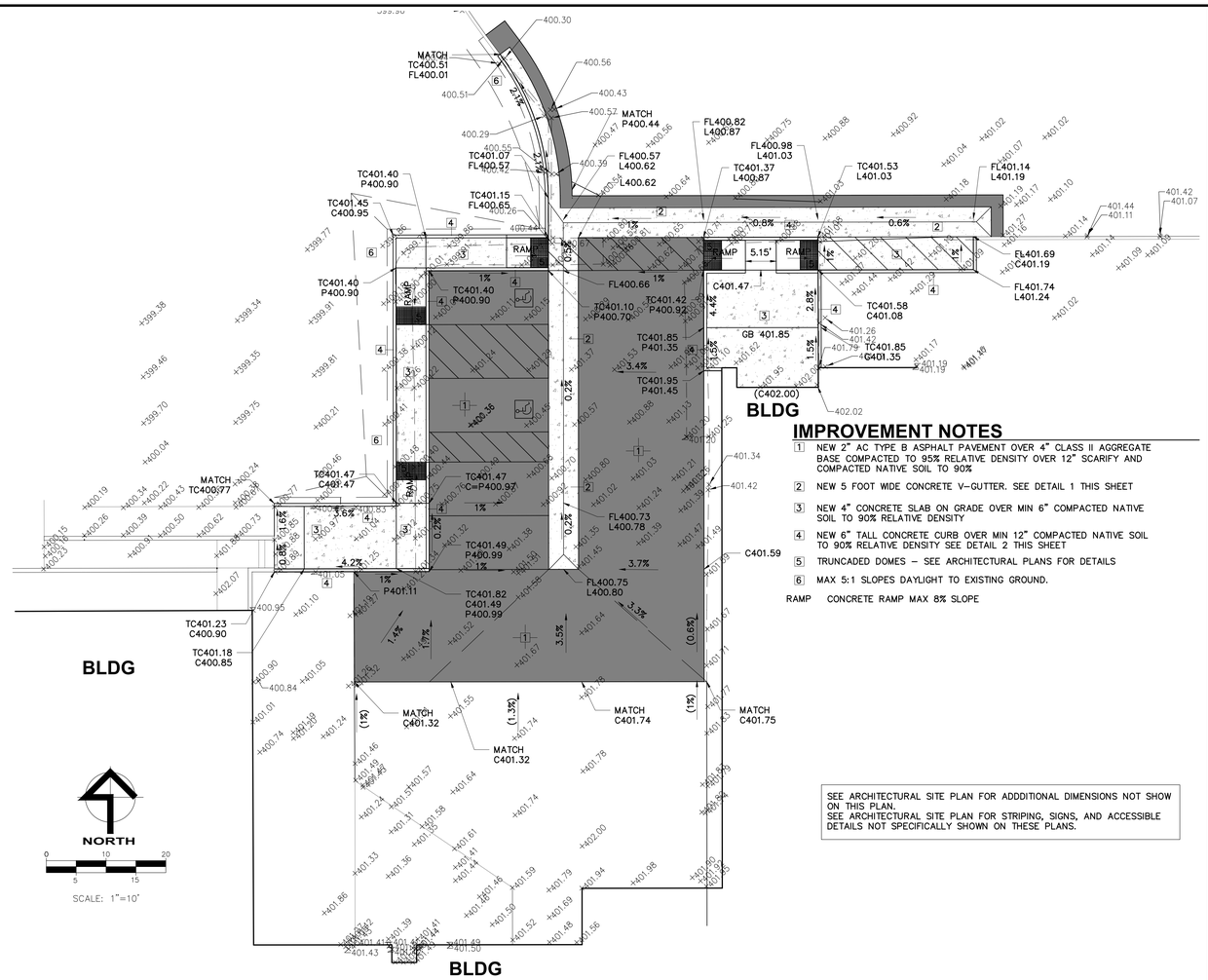
CALIFORNIA WATER CODE – NPDES PERMIT ACTIVITY
CALIFORNIA BUILDING STANDARDS CODE

WITH RESPECT TO THE STORMWATER AND NPDES REQUIREMENTS PER THE ABOVE REFERENCED CODES, REGULATIONS AND STANDARDS:
1. CONSTRUCTION ACTIVITY WILL NOT RESULT IN THE DISTURBANCE OF ONE ACRE OR MORE OF TOTAL LAND AREA
2. CONSTRUCTION ACTIVITY 'OIL & GAS' WILL NOT RESULT IN THE DISCHARGE TO A WATER OF THE STATE OF STORMWATER CONTAINING CONTAMINANTS AND/OR SEDIMENTS THAT WILL CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS.
3. CONSTRUCTION ACTIVITY WILL COMPLY WITH CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) REQUIREMENTS.

PER 2022 CALGREEN BUILDING STANDARDS CODE 5.106.1, NON–RESIDENTIAL NEWLY CONSTRUCTED PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF LAND SHALL PREVENT THE LOSS OF SOIL OF POLLUTION OF STORM WATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES THROUGH LOCAL ORDINANCE REQUIREMENTS AND/OR BEST MANAGEMENT PRACTICE (BMP).
BMP'S THAT SHOULD BE CONSIDERED FOR IMPLEMENTATION AS APPROPRIATE FOR EACH PROJECT INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

EROSION AND SEDIMENT CONTROL BMP'S
–SCHEDULING CONSTRUCTION ACTIVITIES
–PRESERVATION OF NATURAL FEATURES, VEGETATION, AND SOIL
–DRAINAGE SWALES OR LINED DITCHES T CONTROL STORM WATER FLOW
–MULCHING OR HYDRO SEEDING TO STABILIZE SOIL EROSION CONTROL COVERS TO PROTECT SLOPES
–PROTECTION OF STORM DRAIN INLETS (GRAVEL BAGS OR CATCH BASIN INSERTS)
–PERIMETER SEDIMENT CONTROL (PERIMETER SILT FENCE, FIBER ROLLS)
–SEDIMENT TRAP OR SEDIMENT BASIN TO RETAIN SEDIMENT ON SITE
–STABILIZED CONSTRUCTION EXITS
–WIND EROSION CONTROL

HOUSEKEEPING BMP'S
–MATERIAL HANDLING AND WASTE MANAGEMENT
–BUILDING MATERIALS STOCKPILE MANAGEMENT
–MANAGEMENT OF WASHOUT AREAS (CONCRETE,PAINTS,STUCCO,ECT..)
–CONTROL OF VEHICLE/EQUIPMENT FUELING TO CONTRACTOR'S STAGING AREA
–VEHICLE AND EQUIPMENT CLEANING PERFORMED OFF SITE
–SPILL PREVENTION CONTROL



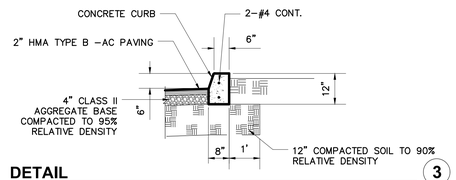
IMPROVEMENT NOTES

1. NEW 2" AC TYPE B ASPHALT PAVEMENT OVER 4" CLASS II AGGREGATE BASE COMPACTED TO 95% RELATIVE DENSITY OVER 12" SCARIFY AND COMPACTED NATIVE SOIL TO 90%
2. NEW 5 FOOT WIDE CONCRETE V–GUTTER. SEE DETAIL 1 THIS SHEET
3. NEW 4" CONCRETE SLAB ON GRADE OVER MIN 6" COMPACTED NATIVE SOIL TO 90% RELATIVE DENSITY
4. NEW 6" TALL CONCRETE CURB OVER MIN 12" COMPACTED NATIVE SOIL TO 90% RELATIVE DENSITY SEE DETAIL 2 THIS SHEET
5. TRUNCADED DOMES – SEE ARCHITECTURAL PLANS FOR DETAILS
6. MAX 5:1 SLOPES DAYLIGHT TO EXISTING GROUND.

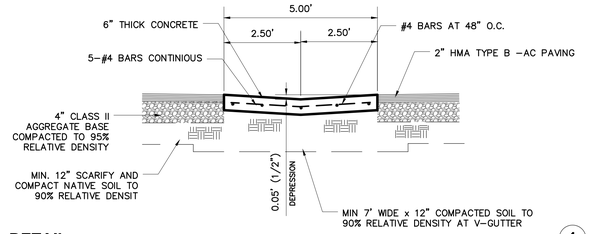
RAMP CONCRETE RAMP MAX 8% SLOPE

SEE ARCHITECTURAL SITE PLAN FOR ADDDITIONAL DIMENSIONS NOT SHOW ON THIS PLAN.
SEE ARCHITECTURAL SITE PLAN FOR STRIPING, SIGNS, AND ACCESSIBLE DETAILS NOT SPECIFICALLY SHOWN ON THESE PLANS.

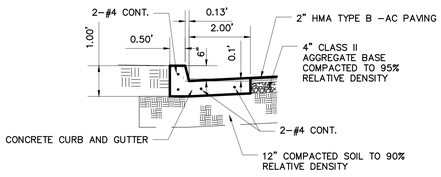
GRADING AND DRAINAGE PLAN



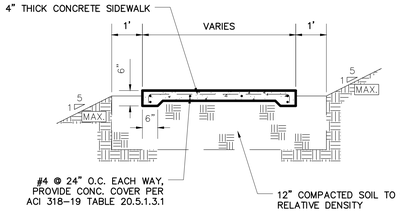
DETAIL 3
SCALE: 1"=2'



DETAIL 1
SCALE: 1"=2'



DETAIL 4
SCALE: 1"=2'



DETAIL 2
SCALE: 1"=2'

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY TOPOGRAPHIC SURVEY OF THE SURFACE, AND SEARCH OF THE AVAILABLE RECORDS IF AVAILABLE. UTILITIES SHOWN ON THESE PLANS ARE TO THE BEST OF OUR KNOWLEDGE. AFINAR, INC IS NOT RESPONSIBLE FOR ANY UNDERGROUND UTILITIES OR STRUCTURES NOT SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE ALL UTILITIES AND TO PROTECT THE UTILITY LINES SHOWN AND NOT SHOWN ON THESE DRAWINGS. IF UTILITIES ARE FOUND THAT ARE NOT SHOWN ON THESE PLANS, CONTACT OWNER, ARCHITECT AND ENGINEER FOR DIRECTION. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY THE SIZE, DEPTH AND LOCATION. ANY DISCREPANCY BETWEEN THE PLANS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

ALL UTILITIES IN EFFECTED WORK AREA WILL BE POTHOLED AT CONTRACTORS EXPENSE PRIOR TO EXCAVATION. OWNER, ARCHITECT, AND ENGINEER WILL BE NOTIFIED 48 HOURS PRIOR TO POTHOLE WORK. ALL EXPOSED UTILITIES WILL BE INSPECTED AND MEASURED BY SURVEYOR PRIOR TO BACKFILL.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL 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 OR THE ENGINEER.

ENGINEER'S STATEMENT

THESE PLANS AND SPECIFICATIONS WERE PREPARED BY ME OR UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH LOCAL ORDINANCES, STANDARDS AND INCLUDE ALL IMPROVEMENT REQUIREMENTS OF THE ADVISORY AGENCY OR OTHER REVIEW BOARD.

ANY ERRORS, OMISSIONS OR DEVIATIONS FROM THOSE ORDINANCES OR STANDARDS ENCOUNTERED DURING CONSTRUCTION SHALL BE CORRECTED AND SUCH CORRECTIONS REFLECTED ON THE PLANS AND SUBMITTED TO THE ENGINEER.

Bernard O Salgado 12-4-24
BERNARD ORTIZ SALGADO, R.C.E. 71320 DATE

REGISTERED PROFESSIONAL ENGINEER BERNARD ORTIZ SALGADO No. 71320 Exp. 12-31-25 CIVIL STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue Suite 280 o:(661) 832-5268
Bakersfield, CA 93309 f:(661) 832-4291
www.ordizmelby.com

LICENSED ARCHITECT JEANNE S. BERTOLACCINI C-35596 RENEWAL OCTOBER 31, 2025 DATE STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANNE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36234
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION

JOB NUMBER: 2324
A#: 03-124361
PTN: 63826-21
CAD DRAWING FILE: 2324-Tehachapi Education Center Bleachers-SD-AC26.pln
DRAWN BY: A.S.
CHECKED BY: G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE
GRADING AND DRAINAGE PLAN

SHEET IDENTIFICATION NUMBER
C-1

SHEETS IN SET 53

811 Know what's below. Call before you dig.

Afinar CONSULTING CIVIL ENGINEERS Established 1997
214 BERNARD STREET
BAKERSFIELD, CA 93305
P(661)716-7443 F(661)716-7443
www.afinar.net

THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECTION

Bernard O Salgado 12/4/24
BERNARD O. SALGADO, PE DATE

REGISTERED PROFESSIONAL ENGINEER BERNARD ORTIZ SALGADO No. 71320 Exp. 12-31-25 CIVIL STATE OF CALIFORNIA

DATE:	BY:	REVISION

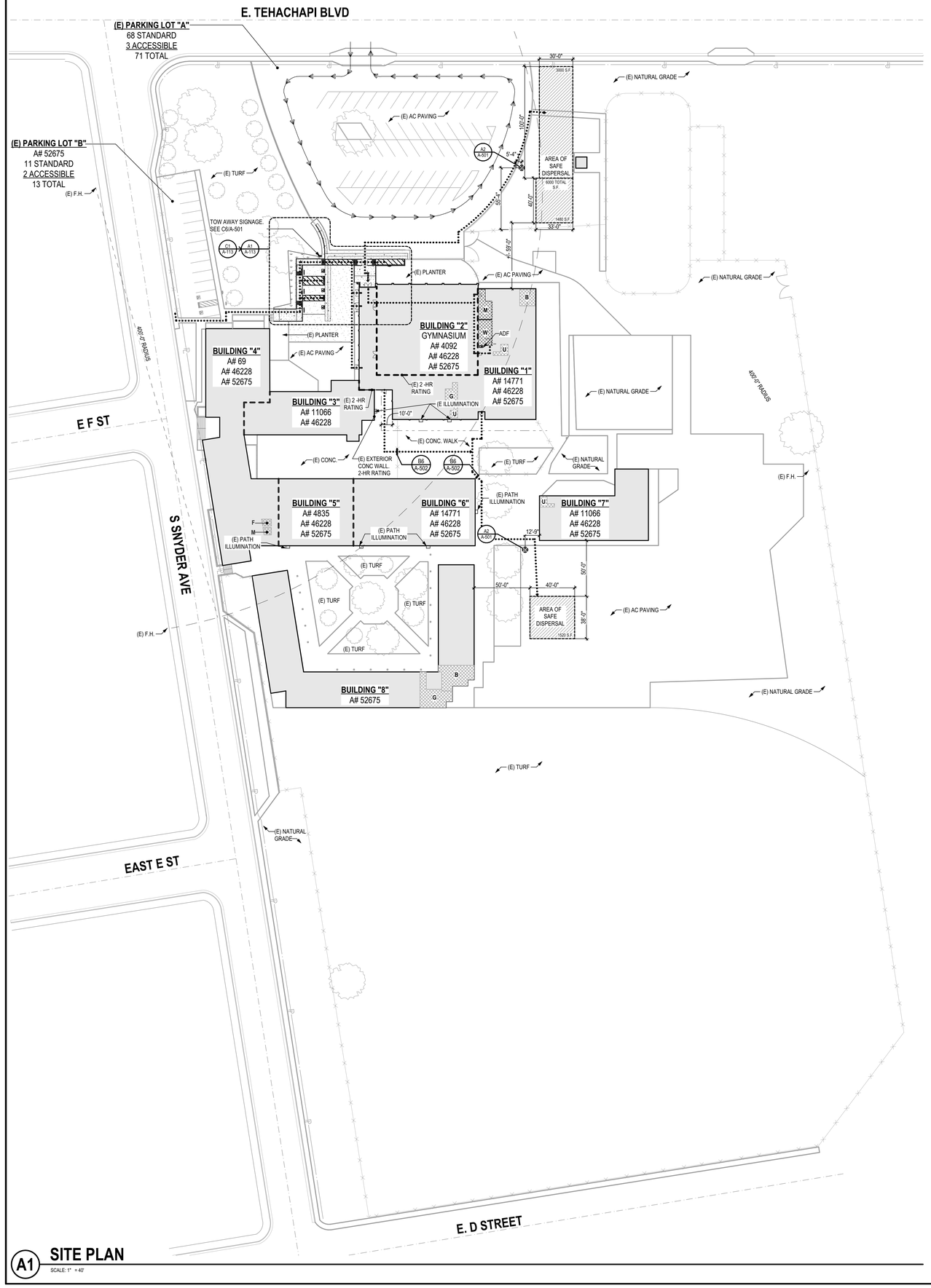
TEHACHAPI EDUCATION CENTER
TEHACHAPI UNIFIED SCHOOL DISTRICT
BLEACHER REPLACEMENT
126 S SNYDER AVE
TEHACHAPI CA 93561

GRADING AND DRAINAGE PLAN

DATE: 5-29-24
DRAWN BY: AFINAR
SCALE: AS NOTED
JOB#: 2024-25

C–1

PLOT DATE: 3:58 PM
PLOTTED BY: AFINAR



A1 SITE PLAN

SCALE: 1" = 40'

PLOT DATE: 3:08 PM
PLOT BY: Gabriel Arriola

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:	TEHACHAPI UNIFIED SCHOOL DISTRICT
Project Name/School:	BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER
Project Address:	126 S. SNYDER AVE, TEHACHAPI, CA 93561

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 ☐

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

School District Acceptance of Acceptable Design Alternates

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	Kern County Fire Department	
LFA Review Official:	Janet Huffaker	
Title:	Fire Plans Examiner	Work Phone: (661) 330-0156
Work Email:	jhuffaker@kerncountyfire.org	

LFA Reviewer's Signature: Janet Huffaker Date: 4/18/24

Hydrant Flow Test Report

Test Date 4/15/2024 **Test Time** 9:30am

Location
Cerro Coso Community College
126 S Synder Ave.
Tehachapi, CA 93561

Tested by
RLH Fire Protection
4300 Stine Rd. Ste 800
Bakersfield, CA 93308
661-322-9344
Lic# 777117
Steven Johnson

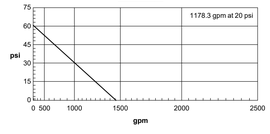
Notes
Read - S Synder Ave between East E St & East F St
Flow - S Synder Ave between E Tehachapi Blvd & East F St

Read Hydrant
61 psi **static pressure**
30 psi **residual pressure**
3970 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	3970	4			1013 gpm

Flow Graph



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

SAFE DISPERSAL CALCULATION

SAFE DISPERSAL AREA CALCULATION PER CBC 1028.5

OCCUPANT LOAD BASED ON EGRESS PLANS=1,194

AREA OF SAFE DISPERSAL REQUIRED 50'-0" AWAY FROM ANY BUILDING.

1194 (OCCUPANCY) X 5 (S.F./OCCUPANCY) = 5,970 SQUARE FEET REQUIRED.
(45' X 33' = 1,480) + (100' X 30' = 3,000) + (40' X 38' = 1520) = 6,000 SQUARE FEET PROVIDED

SITE LEGEND

TYPE	DESCRIPTION
	4" REINFORCED CONCRETE FLATWORK. SEE B4/A-501
	AC PAVING
	TURF
	PLANTER
	EXISTING BUILDING. REFER TO BUILDING LEGEND ON G-001 FOR A#'s
	RESTROOMS TO BE REMODELED / ADDED IN THIS APPLICATION
	EXISTING RESTROOM (NO WORK IN THIS AREA)
	AREA OF SAFE DISPERSAL
	PATH OF TRAVEL (P.O.T) 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. P.O.T. IS A MINIMUM OF 48" WIDE. THE SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. PASSING SPACES (11B-405.5.3) AT LEAST 60" X 60" 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. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING 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.
	EMERGENCY VEHICLE ACCESS
	PROPERTY LINE
	EXISTING CHAINLINK FENCE
	EXISTING BUILDING FIRE-RATED SEPARATION
	ASSUMED PROPERTY LINE
ADF	ACCESSIBLE DRINKING FOUNTAIN
B	STUDENT BOYS RESTROOM
G	STUDENT GIRLS RESTROOM
U	STUDENT RESTROOM - UNISEX
M	STAFF MENS RESTROOM
W	STAFF WOMENS RESTROOM
F.H.	FIRE HYDRANT
	ACCESSIBLE BUILDING ENTRY POINT
	EXISTING TREE

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 POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORTRATED INTO THESE CONSTRUCION DOCUMENTS. ANY NON COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FIND OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

REQUIRED ACCESSIBLE PARKING

SECTION 1129B TABLE 11B-6	REGULAR PARKING PROVIDED	ACCESS. PARKING REQ. / PROVIDED	VAN ACCESS. PARKING REQ. / PROVIDED	TOTAL PARKING PROVIDED
LOT A	68	1	2	71
LOT B	11	1	1	13

PARKING REQUIREMENTS

CBC SECTION 11B-208.3 TABLE 11B-208.2 :
1-25 SPACES - 1 REQ'D
26-50 SPACES - 2 REQ'D
51-75 SPACES - 3 REQ'D

PARKING LOT A
11 STANDARD STALLS
2 ACCESSIBLE
[1 VAN ACCESSIBLE, 1 REGULAR ACCESSIBLE)
TOTAL: 13 SPACES

PARKING LOT B
68 STANDARD STALLS
3 ACCESSIBLE STALLS
(2 VAN ACCESSIBLE, 1 REGULAR ACCESSIBLE)
TOTAL: 71 SPACES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA
ARCHITECT C-35596
MANUEL MALDONADO JR., AIA
ARCHITECT C-36294
JAMES R. VARNER, AIA
ARCHITECT C-10963
ROBERT TROST, AIA
ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA
ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

SITE PLAN: ACCESSIBILITY

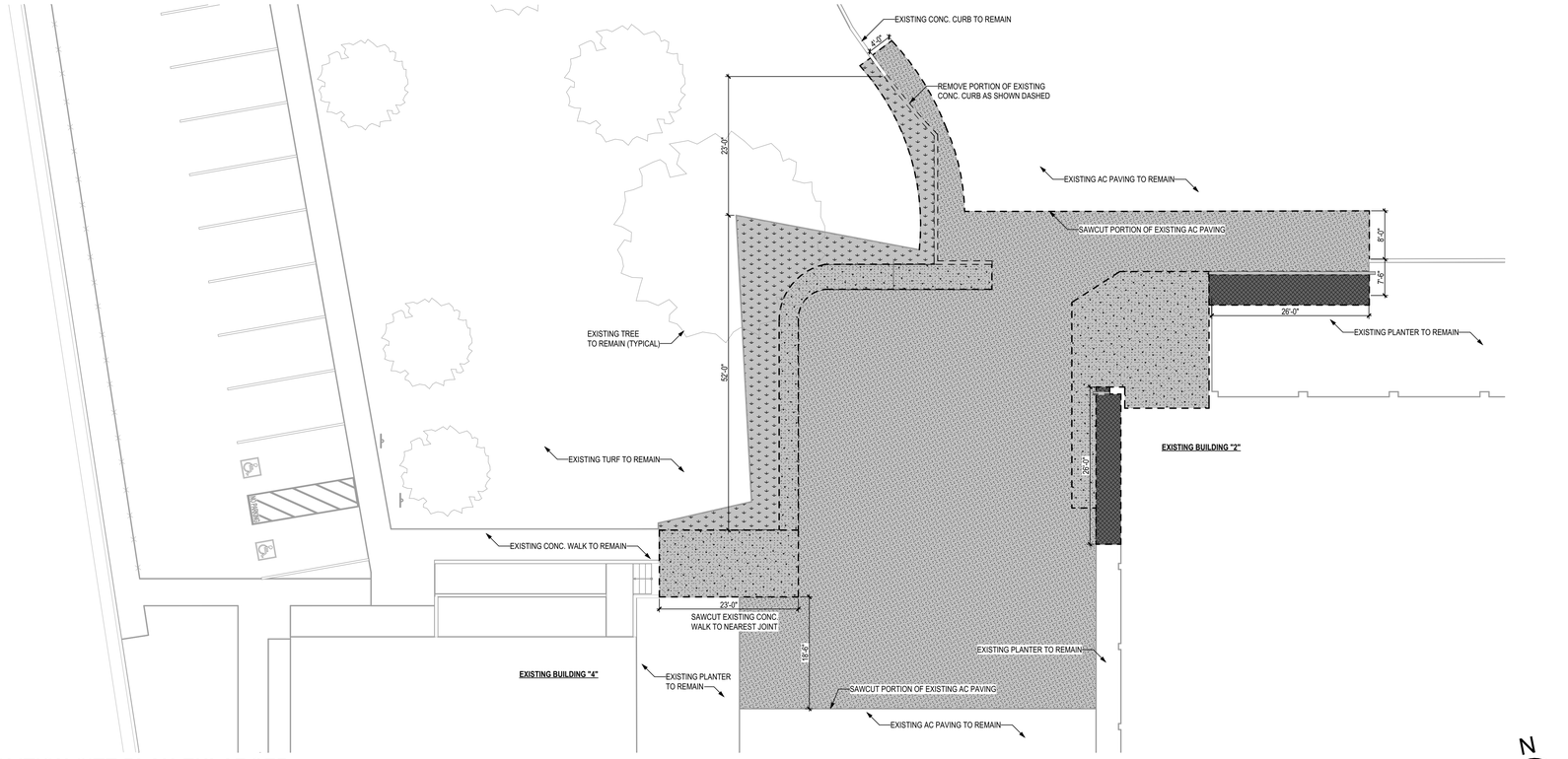
SHEET IDENTIFICATION NUMBER

A-112

SHEETS IN SET 53

DEMOLITION SITE LEGEND

TYPE	DESCRIPTION
	EXISTING CONCRETE TO BE REMOVED IN ITS ENTIRETY
	EXISTING AC PAVING TO BE REMOVED IN ITS ENTIRETY
	EXISTING TURF AND IRRIGATION TO BE REMOVED IN ITS ENTIRETY
	PORTION OF EXISTING PLANTER TO BE REMOVED IN ITS ENTIRETY

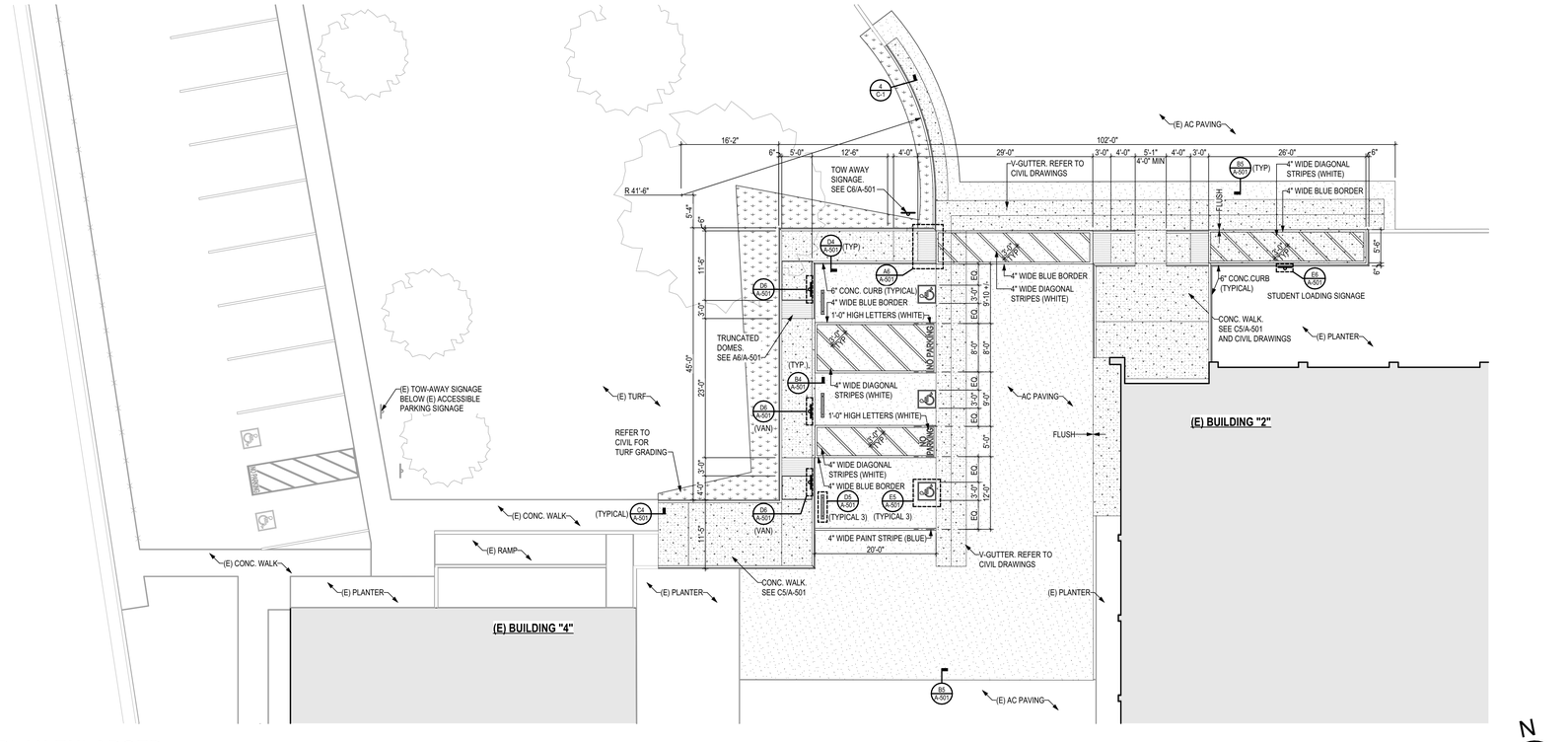


C1 **DEMOLITION SITE PLAN-ENLARGED**

SCALE: 1" = 10'

SITE LEGEND

TYPE	DESCRIPTION
	4" REINFORCED CONCRETE FLATWORK. SEE B4/A-501
	AC PAVING
	TURF
	PLANTER
	EXISTING BUILDING. REFER TO BUILDING LEGEND ON G-001 FOR A#'s



A1 **SITE PLAN ENLARGED**

SCALE: 1" = 10'

PLOT DATE: 3:08 PM
PLOT BY: Gabriel Arreola

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
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LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36204
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION

JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

THE DRAWINGS, IDEAS, AND DESIGNS REPRESENTED ON THIS SHEET ARE THE PROPERTY OF THE ARCHITECT.

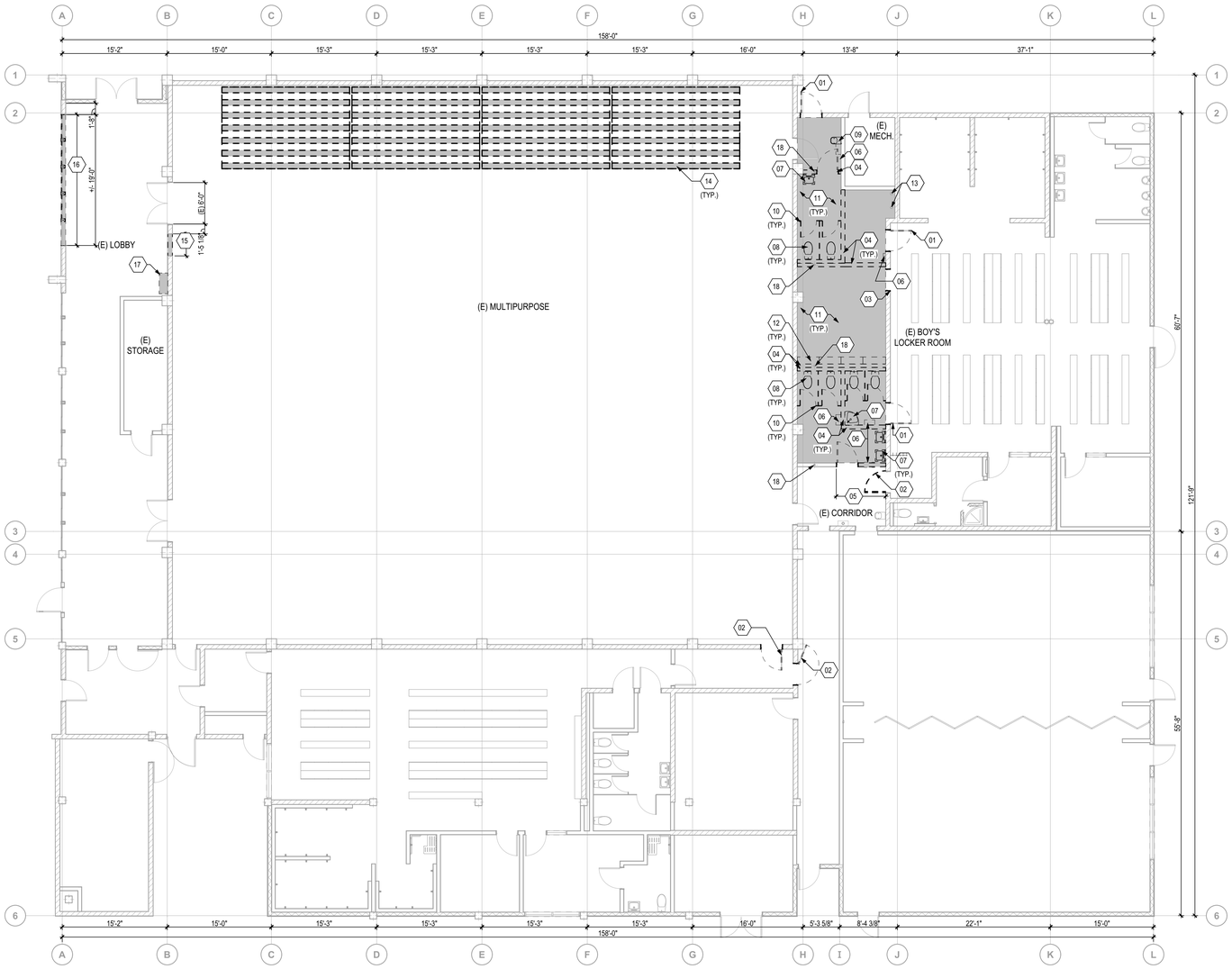
SHEET TITLE

SITE PLAN: ENLARGED AND SITE PLAN: DEMOLITION ENLARGED

SHEET IDENTIFICATION NUMBER

A-113

SHEETS IN SET 53



A1 DEMOLITION FLOOR PLAN

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

DEMOLITION FLOOR PLAN LEGEND

TYPE	DESCRIPTION
	SCOPE OF WORK

DEMOLITION FLOOR PLAN KEYNOTES

ID	DESCRIPTION
01	REMOVE EXISTING DOOR AND DOOR FRAME IN ITS ENTIRETY
02	
02	REMOVE EXISTING DOOR LEAF IN ITS ENTIRETY
03	REMOVE EXISTING DOOR FRAME IN ITS ENTIRETY
04	REMOVE EXISTING WALL IN ITS ENTIRETY. REMOVE EXISTING DOOR AND DOOR LEAF (WHERE OCCURS)
05	REMOVE PORTION OF EXISTING WALL. REMOVE EXISTING DOOR AND DOOR LEAF (WHERE OCCURS)
06	REMOVE EXISTING MECHANICAL REGISTER IN ITS ENTIRETY. REFER TO MECHANICAL DEMOLITION DRAWINGS
07	REMOVE EXISTING LAV IN ITS ENTIRETY. REFER TO DEMOLITION PLUMBING DRAWINGS
08	REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. REFER TO DEMOLITION PLUMBING DRAWINGS
09	REMOVE EXISTING DRINKING FOUNTAIN IN ITS ENTIRETY. REFER TO DEMOLITION PLUMBING DRAWINGS
10	REMOVE EXISTING TOILET PARTITIONS AND ASSOCIATED TOILET ACCESSORIES IN ITS ENTIRETY
11	SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB
12	REMOVE EXISTING TALL CABINETRY
13	EXISTING PIPE TO REMAIN
14	REMOVE EXISTING BLEACHERS IN THEIR ENTIRETY
15	REMOVE PORTION OF EXISTING CMU WALL
16	REMOVE PORTION OF EXISTING CMU AND WOOD WALL UP TO EXISTING CONCRETE BEAM. REMOVE EXISTING WINDOWS, WHERE OCCURS
17	REMOVE EXISTING CABINET. REMOVE PORTION OF EXISTING PLUMBING AND CAP PLUMBING IN WALL

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FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
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A#: 03-124361
PTN: 63826-21

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DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

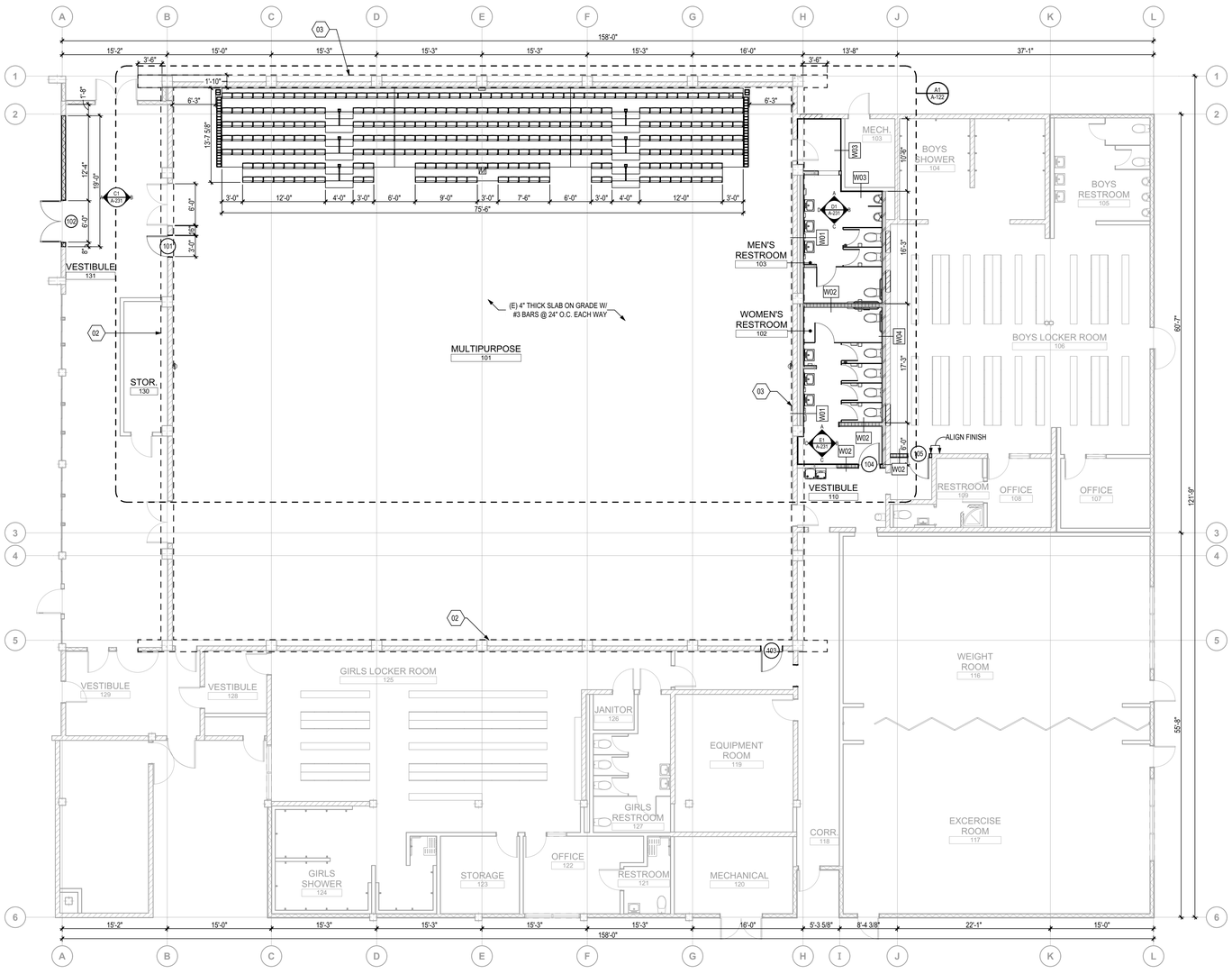
FLOOR PLAN: DEMOLITION

SHEET IDENTIFICATION NUMBER

A-120

SHEETS IN SET 53

PLOT DATE: 3:36 PM
PLOT TIME: 3/26/25
BY: ANGEL SANCHEZ



A1 FLOOR PLAN (PARTIAL FOUNDATION PLAN)

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

N

PLOT TIME: 3:53 PM
PLOT BY: BRYAN

WALL LEGEND

ID	VIEW	WALL CORE
W01		INTERIOR FINISH, 2x6 WOOD STUDS AT 16" O.C. (FULL HEIGHT-FLOOR TO ROOF STRUCTURE ABOVE) WITH R-19 SOUND INSULATION, EXISTING CMU WALL
W02		INTERIOR FINISH, 2x6 WOOD STUDS AT 16" O.C. (FULL HEIGHT-FLOOR TO CEILING STRUCTURE ABOVE) WITH R-19 SOUND INSULATION, INTERIOR FINISH (FOR ATTATCHMENT SEE A3/A-502 & E3/A-502)
W03		CERAMIC TILE OVER MORTAR BED, EXISTING 2x FRAMING, EXISTING INTERIOR FINISH
W04		INTERIOR FINISH, 2x6 WOOD STUDS AT 16" O.C. (FULL HEIGHT-FLOOR TO CEILING STRUCTURE ABOVE) WITH R-19 SOUND INSULATION, EXISTING CMU WALL (FOR ATTATCHMENT SEE C1/A-502 & D3/A-502)

FLOOR PLAN KEYNOTES

ID	DESCRIPTION
02	(E) 24" WIDE x 30" DEEP CONCRETE GRADE BEAM BELOW SLAB ON GRADE, REINFORCED W/ (2) #8 TOP, (2) #9 BOT, (2) #5 MID, AND #3 TIES (3 TIES @ 8" O.C. THEN @12" O.C. AT ENDS/COLUMN LINES, ELSE TIES SPACED @ 15" O.C.)
03	(E) 22" WIDE x 30" DEEP CONCRETE GRADE BEAM BELOW SLAB ON GRADE, W/ (2) #8 BARS TOP & BOT, (2) #5 MID, AND #3 TIES (3 TIES @ 8" O.C. THEN 3 AT 12" O.C. AT ENDS/ COLUMN LINES, ELSE TIES SPACED @ 15" O.C.)

IDENTIFICATION STAMP
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APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
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Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

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ARCHITECT C-36234
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ARCHITECT C-10963
ROBERT TROST, AIA
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JOSEPH E. ZASOSKI, AIA
ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

FLOOR PLAN

SHEET IDENTIFICATION NUMBER

A-121

SHEETS IN SET 53

ACCESSORY SCHEDULE

ID	DESCRIPTION
GB1	36" GRAB BAR. REFER TO DETAIL C4/A-502 FOR GRAB BAR MOUNTING
GB2	42" GRAB BAR. REFER TO DETAIL C4/A-502 FOR GRAB BAR MOUNTING
MR1	MIRROR WITH STAINLESS STEEL FRAME. REFER TO DETAIL D4/A-502 FOR ATTACHMENT
PT1	PAPER TOWEL DISPENSER
SD1	SOAP DISPENSER
SN1	SANITARY NAPKIN WASTE
TSC1	TOILET SEAT COVER DISPENSER
TT1	TOILET TISSUE DISPENSER

ENLARGED FLOOR PLAN KEYNOTES

ID	DESCRIPTION
01	BLEACHER. REFER TO MANUFACTURER'S DRAWINGS
02	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER. REFER TO DETAIL A5/A-502
03	LAVATORY-REFER TO PLUMBING DRAWINGS
04	URINAL-REFER TO PLUMBING DRAWINGS
05	WATER CLOSET-REFER TO PLUMBING DRAWINGS
06	CMU WALL INFILL. PATCH AND PAINT TO MATCH EXISTING - REFER TO DETAIL (A4/A-501) (PER SPECS BELOW)
07	TOILET PARTITION. REFER TO DETAIL C5/A-502
08	2" DEPRESSED CONCRETE SLAB ON GRADE WITH #4 AT 18" O.C. EACH WAY (SEE A4/A-502)
09	FLOOR DRAIN. REFER TO PLUMBING DRAWINGS
10	ALIGN FACE OF STUD OF PROPOSED 2x6 WOOD WALL WITH THE FACE OF EXISTING CONCRETE COLUMN FOR A FLUSH INTERIOR FINISH
11	GYPSUM BOARD WALL FINISH
12	(E) CMU INFILL WALLS TO REMAIN, "WALL ID" PER EXISTING DRAWINGS, TO DESIGNATE DIFFERENT REINFORCEMENT PATTERNS/WALL TYPES

EXISTING CONCRETE BEAM SCHEDULE

BEAM ID	BEAM DIMENSIONS	BEAM REINFORCEMENT
B-11	18" SQR.	(2) #9 T&B W/ #3 TIES @ 12" O.C.
B-12	18" SQR.	(2) #9 T&B W/ #3 TIES @ 12" O.C.
B-13	18" SQR. W/ 8" x 32" CURB ABOVE	(2) #9 TOP, (2) #6 BOT, (4) #4 E.F. OF CURB W/ #4 TIES @ 12" O.C.

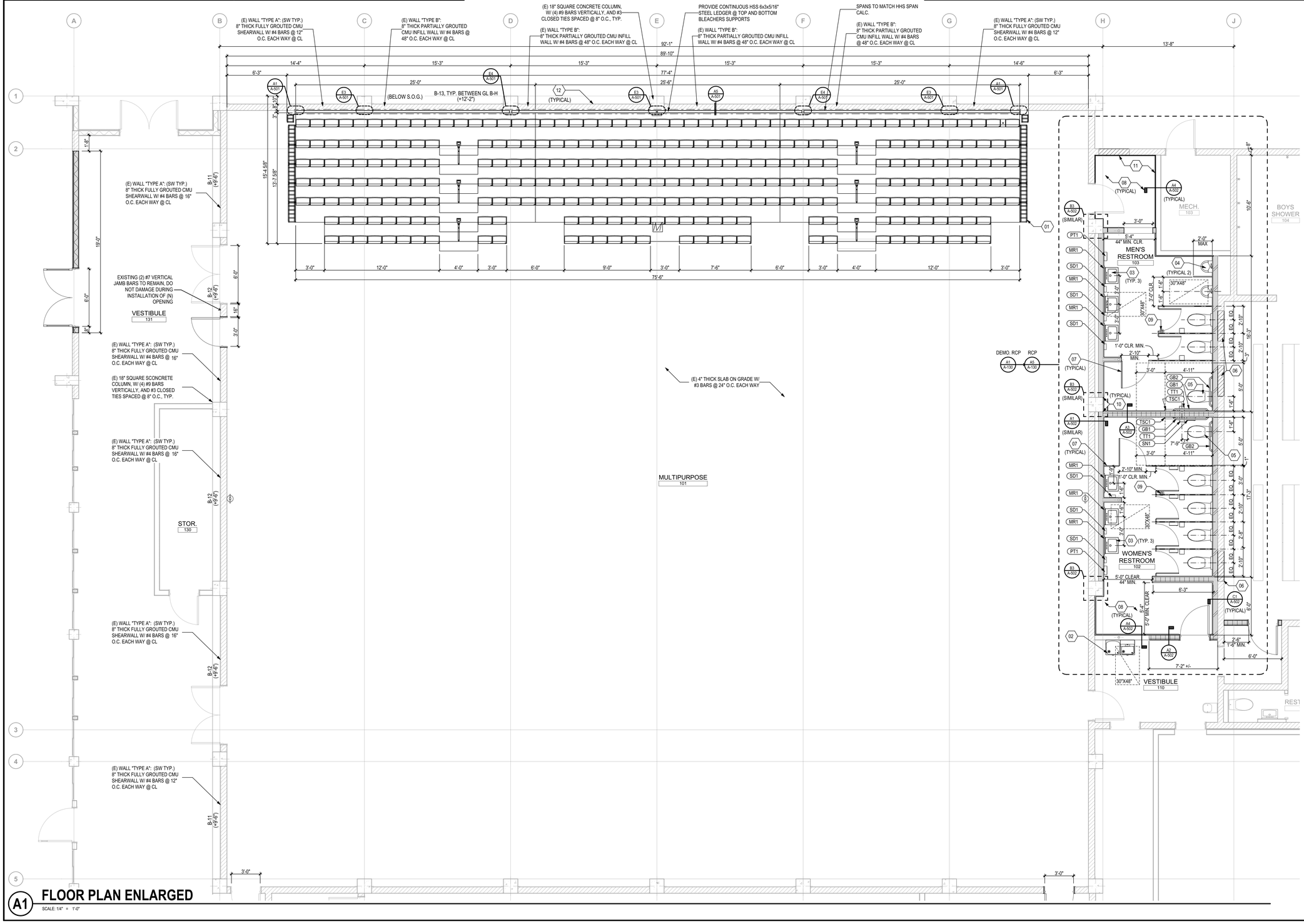
CONCRETE BLOCK MASONRY

1. MASONRY SHALL CONFORM TO:
   A. CBC CHAPTER 21A
   B. ASCE 7-16/TMS 402/602-16
   C. AND THE FOLLOWING REQUIREMENTS:

MASONRY MATERIAL PROPERTIES

	MINIMUM COMPRESSIVE STRENGTH (PSI)	STANDARD	TYPE
MASONRY	f'm = 2,000 PSI	CBC TABLE 2105A.2.2.1.2 OR ASTM C1314	RUNNING BOND PATTERN
BLOCK UNITS	2,000	ASTM C90	GRADE N (TYPE 1) MEDIUM WEIGHT
MOTAR	1,800	ASTM C270	S
GROUT	2,500	ASTM C476	COURSE
CEMENT	-	ASTM C150	PORTLAND
LIME	-	ASTM C207	HYDRATED TYPE N OR S

2. COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY "UNIT STRENGTH METHOD" OR PROSM TEST METHOD" AS DEFINED BY THE CBC.
3. SEE ARCHITECTUAL FOR TYPE, COLOR, TEXTURE, AND JOINT DETAILS FOR CONCRETE BLOCKS/MORTOR.
4. USE OPEN-END BLOCKS TO ACCOMPLISH CONTINUOUS VERTICAL REINFORCEMENT.
5. MORTAR SHALL CONFORM TO THE "PROPORTIONS SPECIFICATION" OF CBC SECTION 2103A.2.
6. BEND JOINT THICKNESS SHALL BE 3/8" NOMINAL AND WITHIN THE TOLERANCES OF ARTICLE 3.3G OF AC1 530.1 CROSS WEBS SHALL BE FULL BEDDED IN MORTAR IN ALL COURSES OF WALL PIERS, COLUMNS, PILASTERS, AND IN THE STARTING COURSE ON FOUNDATIONS.
7. SOLID GROUT ALL CELLS.
8. GROUT SHALL CONFORM TO THE FEQUIREMENTS OF ASTM C476.
9. GROUT SHALL CONTAIN MASONRY "GROUT-AID" ADDITIVE OR EQUAL TO REDUCE SHRINKAGE. (FLY ASH SHALL NOT BE USED).
10. MAXUMUM GROUT POUR HEIGHT SHALL NOT EXCEED 4'-0" FOR LOW-LIFT GROUTED CONSTRUCITON.
11. MAXUMUM GROUT LIFT HEIGHT SHALL NOT EXCEED 4'-0".
12. VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT THAT MAINTAIN A CLEAR UNOBSTRUCTED CONTUNUOUS VERTICAL CELL. MINIMUM GROUT SPACE FOR VERTICAL CELLS SHALL BE 2 1/2" x 3". DOWELS FROM FOOTINGS SHALL BE SET TO ALIGN WITH CORE CONTAINING CERTICAL WALL REINFORCEMENT.
13. CONCRETE SURFACES SHALL BE CLEANED OF ALL LAITANCE PRIOR TO SETTING OF CLOCKS.
14. SPLICE VERTICAL REINFORCEMENT ONLY WHERE INDICATED ON THE STRUCTURAL DRAWINGS.
15. GROUT POURS SHALL BE CONSULIDATED BY MECHANINCAL VIBRATION.
16. REINFORCEMENT SHALL HAVE MINIMUM 1/2" GROUT CLEARANCE TO SURFACE OF MASONRY BLOCK UNITS.



A1 FLOOR PLAN ENLARGED

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

PLOT DATE: 3:55 PM
PLOT BY: Andrew Sanchez

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
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DATE: 03/27/2025

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BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

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TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
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JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

SHEET TITLE

FLOOR PLAN: ENLARGED

SHEET IDENTIFICATION NUMBER

A-122

SHEETS IN SET 53

DEMOLITION RCP KEYNOTES

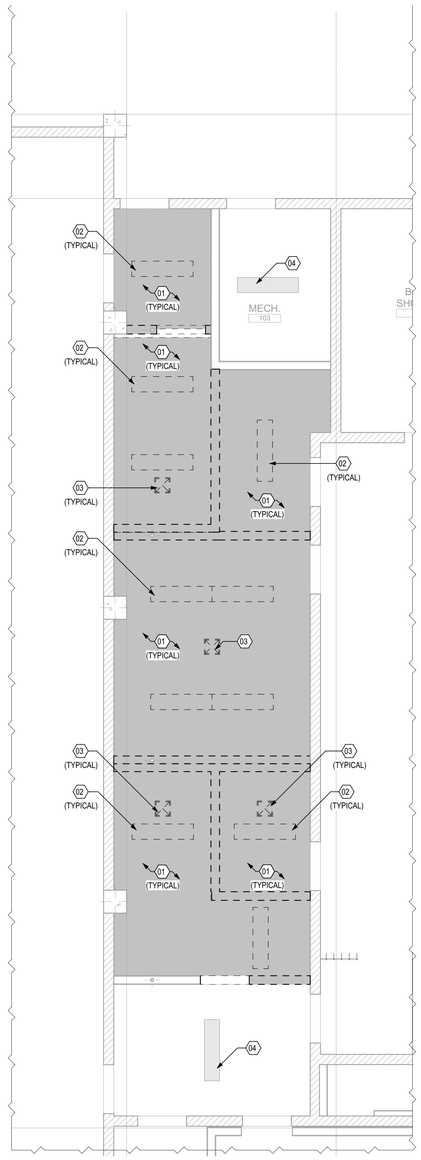
ID	DESCRIPTION
01	REMOVE EXISTING CEILING FRAMING IN ITS ENTIRETY
02	REMOVE EXISTING LIGHT FIXTURES IN THEIR ENTIRETY
03	REMOVE EXISTING MECHANICAL REGISTERS IN THEIR ENTIRETY
04	EXISTING LIGHT FIXTURE TO REMAIN

FRAMING KEY NOTES

ID	DESCRIPTION
01	2x BLOCKING
02	2x CEILING JOISTS @ 24" O.C.

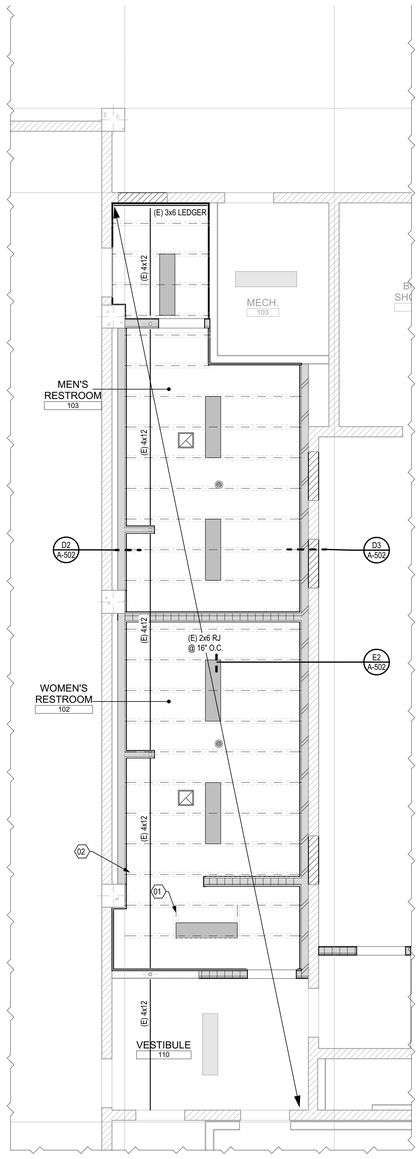
CEILING LEGEND

TYPE I	1/8" VENEER PLASTER OVER 5/8 TYPE X GYP BOARD OVER 2x8 C.J. AT 16" O.C. (5d WALLBOARD NAIL 1 5/8" LONG WITH .086" SHANK AND 15/64" HEAD PER CBC TABLE 2508.5).	
	12"x48" LIGHT FIXTURE SURFACE MOUNTED - REFER TO ELECTRICAL DRAWINGS	E2 A-501
	EXISTING LIGHT FIXTURE	
	EXHAUST FAN. REFER TO MECHANICAL DRAWINGS	



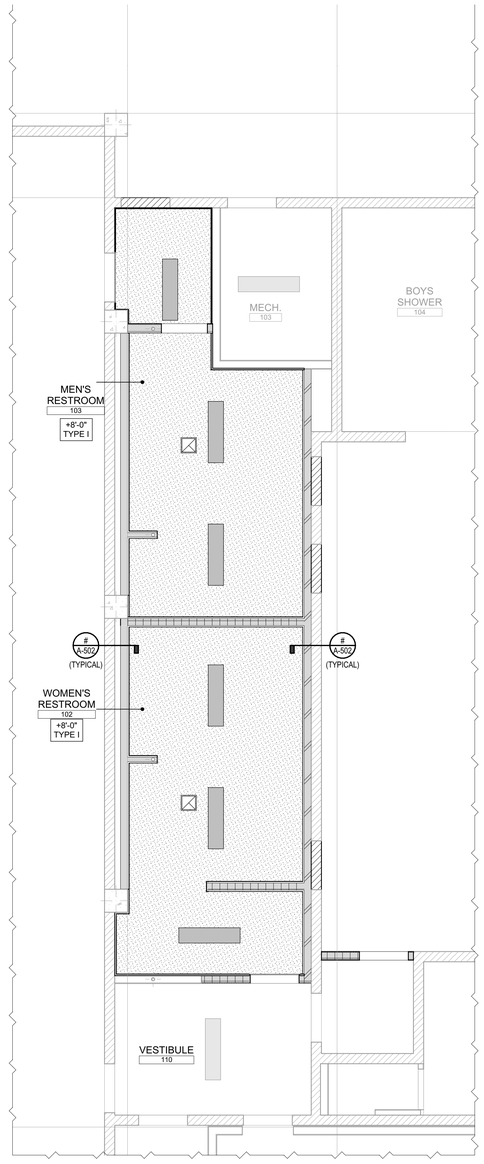
A1 DEMO. REFLECTED CEILING PLAN

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



A3 FRAMING PLAN

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



A5 REFLECTED CEILING PLAN

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

PLOT TIME: 3:30 PM
PLOT DATE: 3/26/2025

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DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

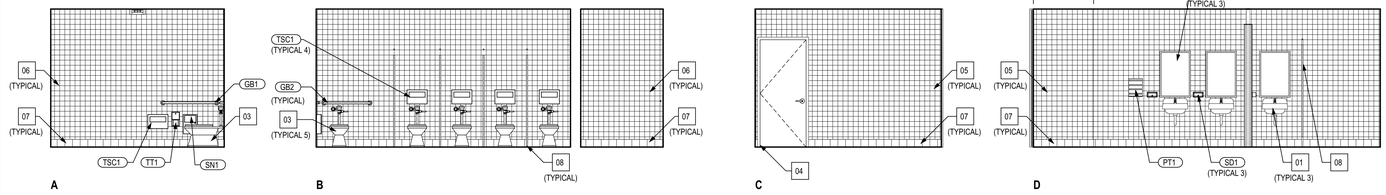
SHEET TITLE

CEILING PLAN, CEILING PLAN-DEMO, FRAMING PLAN

SHEET IDENTIFICATION NUMBER

A-130

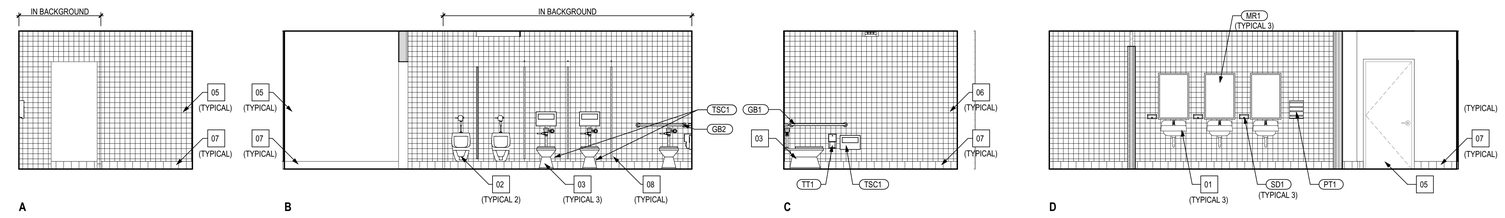
SHEETS IN SET 53



E1 WOMEN'S RESTROOM

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

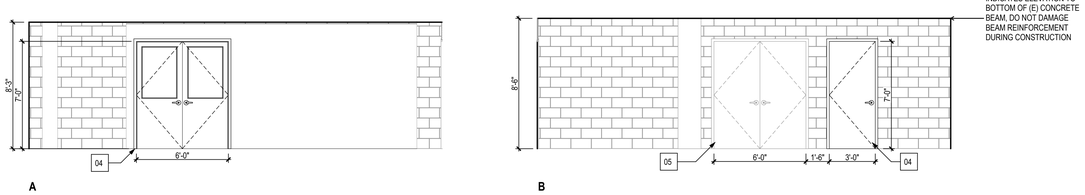
REFER TO DETAIL E4/A-502 FOR FIXTURE AND ACCESSORY ACCESSIBLE MOUNTING HEIGHTS



D1 MEN'S RESTROOM

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

REFER TO DETAIL E4/A-502 FOR FIXTURE AND ACCESSORY ACCESSIBLE MOUNTING HEIGHTS



C1 131 VESTIBULE

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

ACCESSORY SCHEDULE

ID	DESCRIPTION
GB1	36" GRAB BAR. REFER TO DETAIL C4/A-502 FOR GRAB BAR MOUNTING
GB2	42" GRAB BAR. REFER TO DETAIL C4/A-502 FOR GRAB BAR MOUNTING
MR1	MIRROR WITH STAINLESS STEEL FRAME. REFER TO DETAIL D4/A-502 FOR ATTACHMENT
PT1	PAPER TOWEL DISPENSER
SD1	SOAP DISPENSER
SN1	SANITARY NAPKIN WASTE
TSC1	TOILET SEAT COVER DISPENSER

INTERIOR ELEVATIONS KEYNOTES

ID	DESCRIPTION
01	LAVATORY-REFER TO PLUMBING DRAWINGS
02	URINAL-REFER TO PLUMBING DRAWINGS
03	WATER CLOSET-REFER TO PLUMBING DRAWINGS
04	DOOR-REFER TO DOOR SCHEDULE
05	EXISTING DOOR
06	CERAMIC WALL TILE
07	CERAMIC COVED TILE BASE
08	TOILET PARTITION. REFER TO DETAIL C5/A-502

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DRAWN BY:
A.S.

CHECKED BY:
G.A.

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SHEET TITLE

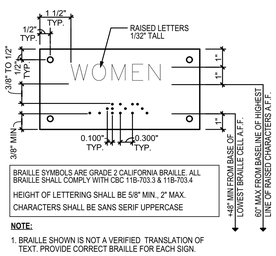
INTERIOR ELEVATIONS

SHEET IDENTIFICATION NUMBER

A-231

SHEETS IN SET 53

PLOT DATE: 4:54 PM
PLOT BY: A.S.
PLOT SIZE: 24"x36"



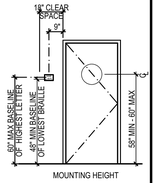
NOTES:

ALL SIGNAGE MUST CONFORM TO CALIFORNIA TITLE 24 REGULATIONS. SECTION 11B-703.

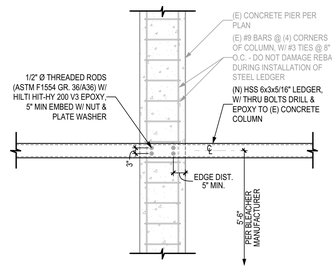
1. BORDERLESS GEOMETRIC SYMBOL DOOR SIGNS FOR RESTROOMS MUST CONTRAST IN COLOR WITH DOOR BY 70% MIN, DARK ON LIGHT OR LIGHT ON DARK.
2. BORDERLESS GENDER SYMBOLS ON RESTROOM SIGNS (6" MIN HEIGHT) ARE TO BE PLACED ABOVE RAISED CHARACTERS AND BRAILLE ON TACTILE SIGN.
3. BORDERLESS INTERNATION SYMBOL OF ACCESSIBILITY IS TO BE WHITE ON FEDERAL BLUE COLOR # 15090 BACKGROUND WITH A NON GLARE FINISH MAINTAINING A POSITIVE CONTRAST IN COLOR WITH DOOR BY 70% MIN.
4. BORDERLESS UNISEX DOOR SIGNS, TRIANGLE MUST CONTRAST WITH THE CIRCLE WHICH MUST CONTRAST WITH THE DOOR BY 70% MIN.
5. CONTRAST BETWEEN CHARACTERS AND BACKGROUND MUST BE 70% MINIMUM ON ALL TACTILE SIGNAGE WITH A NON GLARE FINISH
6. SIGNS MOUNTED ON A DOOR LEAF SHALL BE CENTERED ON THE ASSIGNED DOOR AND 58" MIN - 60" MAX ABOVE FINISH FLOOR TO CENTERLINE AND WITHIN 1" OF VERTICAL CENTER LINE OF DOOR
7. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN. ABOVE THE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAX ABOVE THE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS
8. BRAILLE ON SIGNS SHALL COMPLY WITH CBC 11B-703.3
9. FOR SIGNS DESIGNATING OCCUPANT LOAD, REFER TO SHEET G-002, CODE ANALYSIS, FOR ACTUAL OCCUPANT LOAD PER ROOM - VERIFY LOCATION
10. ALL SIGNAGE TO CONFORM TO REQUIREMENTS OF SECTIONS 11B-703.7.2.6 AND 11B-703.7.2.6.4
11. PROVIDE PORTABLE ASSISTIVE LISTENING SYSTEM PER 2019 CBC SECTIO 11B-219, 11B-706
12. ROOM DESIGNATION SIGNS TO BE COORDINATED WITH OWNER

TYPICAL SIGN MOUNTING:

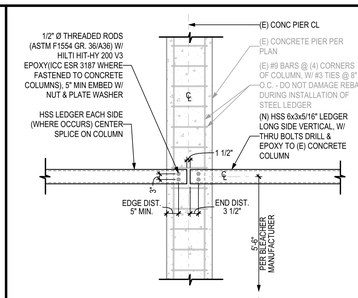
APPLY CONTINUOUS BEAD OF SILICONE ADHESIVE AT PERIMETER OF SIGN. ANCHOR W/ MIN. (6) TAMPER RESISTANT STAINLESS STEEL SCREWS



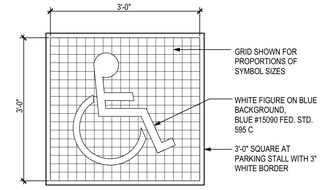
E1 DOOR SIGNAGE
SCALE: 1" = 1'-0"



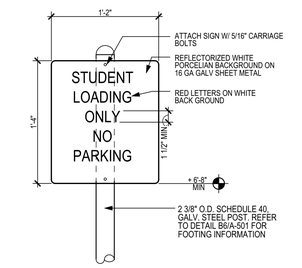
E3 LEDGER @ (E) CMU WALLS
SCALE: 1/2" = 1'-0"



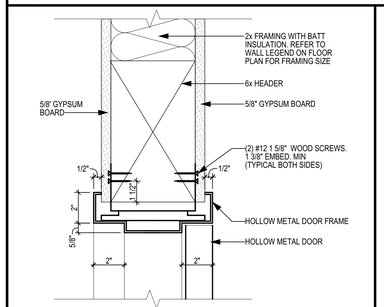
E4 LEDGER @ (E) CMU WALLS
SCALE: 1/2" = 1'-0"



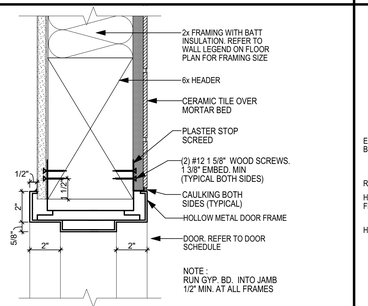
E5 ISA SYMBOL
SCALE: 1/8" = 1'-0"



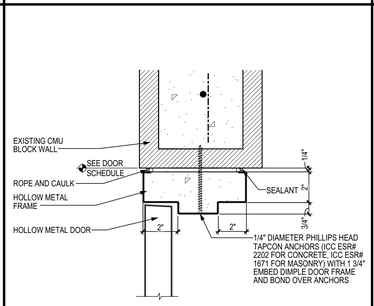
E6 STUDENT LOADING SIGNAGE
SCALE: 1 1/2"= 1'-0"



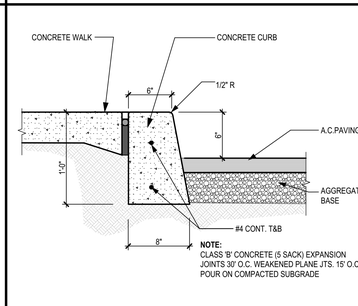
D1 DOOR HEAD 2
SCALE: 3" = 1'-0"



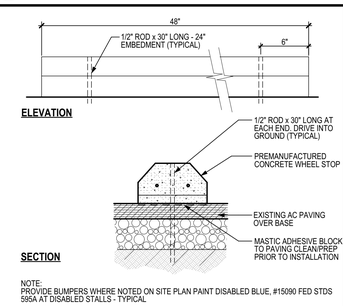
D2 DOOR HEAD 1
SCALE: 3" = 1'-0"



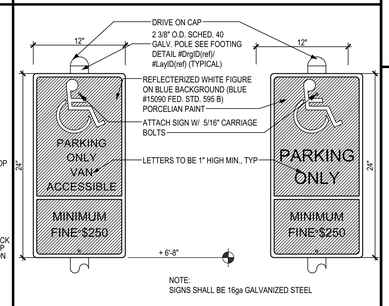
D3 DOOR HEAD-CMU
SCALE: 3" = 1'-0"



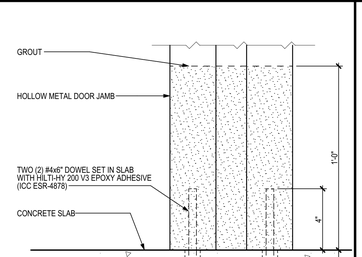
D4 CONC CURB
SCALE: 1 1/2"= 1'-0"



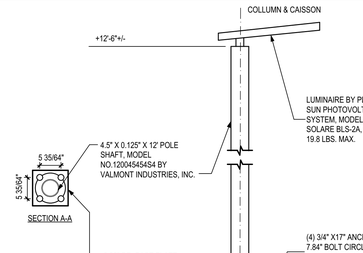
D5 WHEEL STOP
SCALE: 1/8" = 1'-0"



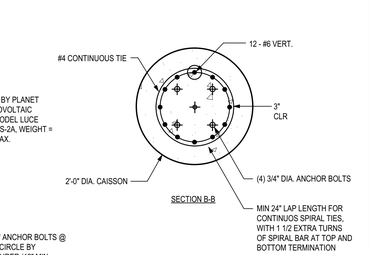
D6 ACCESSIBILITY SIGNAGE
SCALE: 1 1/2"= 1'-0"



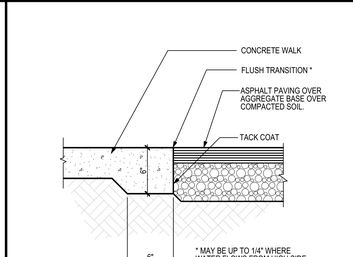
C1 DOOR JAMB 2
SCALE: 3" = 1'-0"



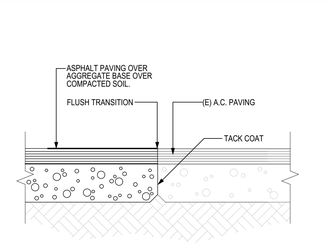
C2 DOOR JAMB 1
SCALE: 3" = 1'-0"



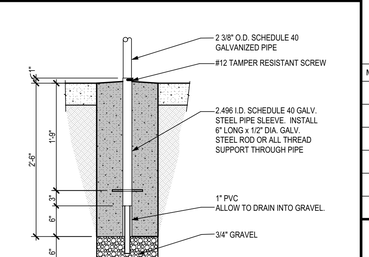
C3 DOOR JAMB-CMU
SCALE: 3" = 1'-0"



C4 CONC. WALK TO E WALK
SCALE: 3/4" = 1'-0"



C5 CONC WALK
SCALE: 1" = 1'-0"



C6 AUTHORIZATION SIGNAGE
SCALE: 1/2" = 1'-0"

B1 DOOR SILL
SCALE: 3" = 1'-0"

A2 EXTERIOR SOLAR LIGHT FIXTURE
SCALE: 3/4" = 1'-0"

B4 CONC WALK TO AC PAVING
SCALE: 1 1/2"= 1'-0"

B5 AC PAVING TO (E) AC PAVING
SCALE: 1 1/2"= 1'-0"

B6 SIGNAGE FOOTING
SCALE: 1" = 1'-0"

A1 LEDGER ENDS TO (E) CMU WALL
SCALE: 1/2" = 1'-0"

A4 CMU WALL INFILL
SCALE: 1/2" = 1'-0"

A5 LEDGER @ (E) CMU WALLS
SCALE: 1/2" = 1'-0"

A6 TRUNCATED DOMES
SCALE: 1/8" = 1'-0"

PLOT TIME: 3:26 PM
PLOT DATE: 3/26/25

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
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Bakersfield, CA 93309
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LICENSED ARCHITECT
JEANNE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
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STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
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JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION

JOB NUMBER:
2324
A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

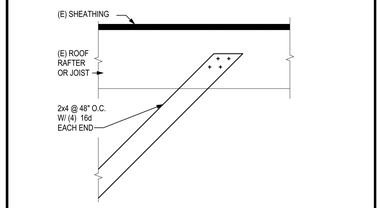
SHEET TITLE

DETAILS

SHEET IDENTIFICATION NUMBER

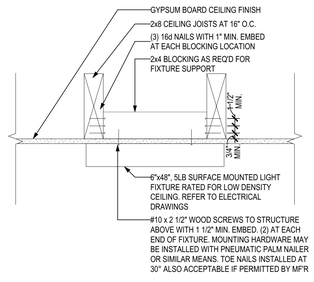
A-501

SHEETS IN SET 53



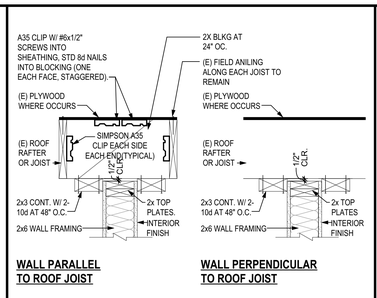
E1 ROOF ATTACHMENT

SCALE: 1" = 1'-0"



E2 SURFACE FIXTURE MOUNTING

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

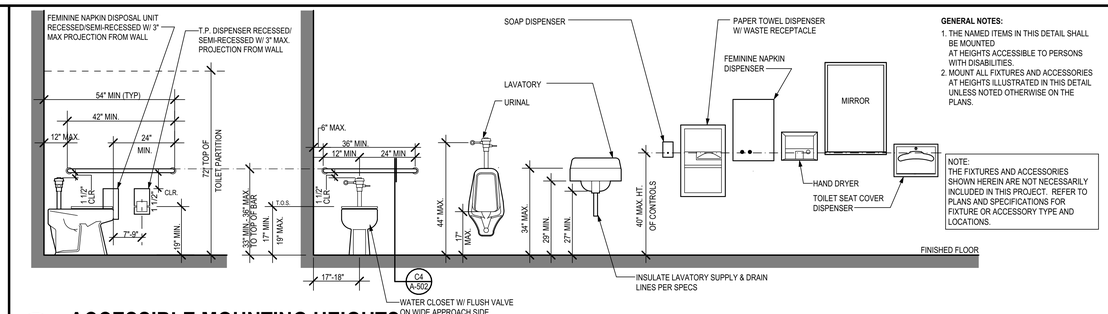


WALL PARALLEL TO ROOF JOIST

WALL PERPENDICULAR TO ROOF JOIST

E3 ROOF ATTACHMENT

SCALE: 1" = 1'-0"



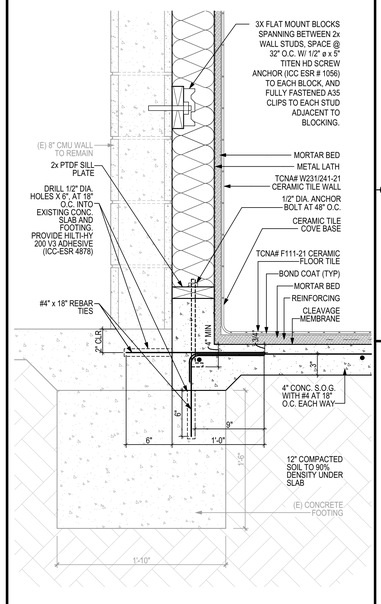
GENERAL NOTES:

1. THE NAMED ITEMS IN THIS DETAIL SHALL BE MOUNTED AT HEIGHTS ACCESSIBLE TO PERSONS WITH DISABILITIES.
2. MOUNT ALL FIXTURES AND ACCESSORIES AT HEIGHTS ILLUSTRATED IN THIS DETAIL UNLESS NOTED OTHERWISE ON THE PLANS.

NOTE:
THE FIXTURES AND ACCESSORIES SHOWN HEREIN ARE NOT NECESSARILY INCLUDED IN THIS PROJECT. REFER TO PLANS AND SPECIFICATIONS FOR FIXTURE OR ACCESSORY TYPE AND LOCATIONS.

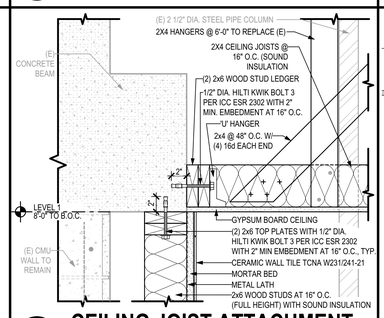
E4 ACCESSIBLE MOUNTING HEIGHTS

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



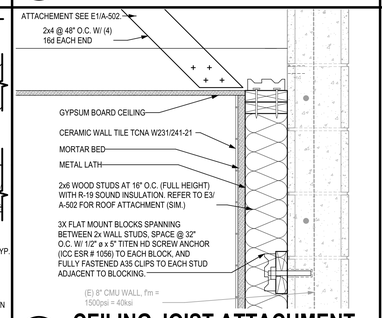
D2 CEILING JOIST ATTACHMENT

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



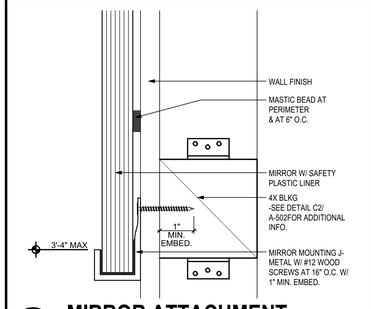
D3 CEILING JOIST ATTACHMENT

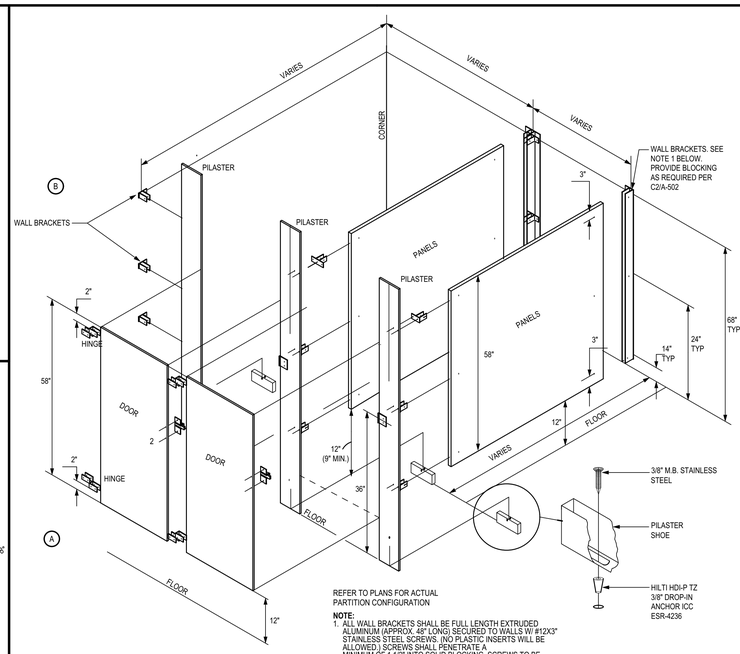
SCALE: 1 1/2"= 1'-0"



D4 MIRROR ATTACHMENT

SCALE: 6" = 1'-0"





REFER TO PLANS FOR ACTUAL PARTITION CONFIGURATION

NOTE:

1. ALL WALL BRACKETS SHALL BE FULL LENGTH EXTRUDED ALUMINUM (APPROX. 48" LONG) SECURED TO WALLS W/ #12X3" STAINLESS STEEL SCREWS. (NO PLASTIC INSERTS WILL BE ALLOWED.) SCREWS SHALL PENETRATE A MINIMUM OF 1 1/2" INTO SOLID BLOCKING. SCREWS TO BE EVENLY SPACED 12" ON CENTER OR 13" MAX.

C5 TOILET PARTITIONS

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

C1 CONCRETE CURB

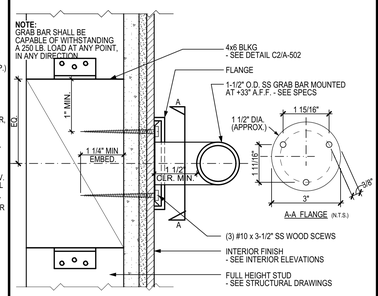
SCALE: 1 1/2"= 1'-0"

C2 WALL BLOCKING

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

C3 LAV BACKING

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



C4 GRAB BAR MOUNTING

SCALE: 6" = 1'-0"

NOTES:

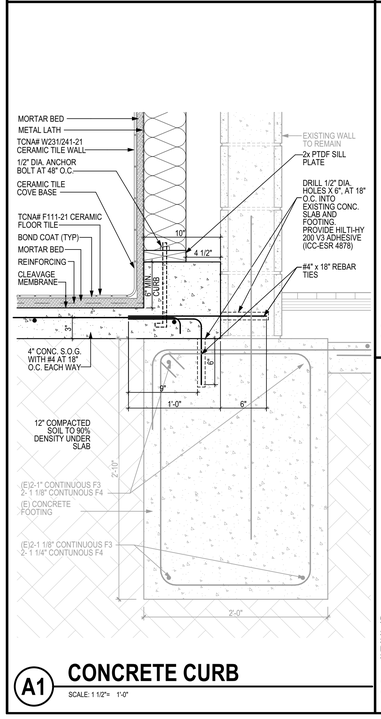
1. FOR SINGLE FIXTURE, PLATE SHALL BE ANCHORED TO A MINIMUM OF (4) VERTICAL STUDS.
2. FOR CONDITIONS AT BATTERY OF FIXTURES, MOUNT ON A CONTINUOUS STEEL PLATE. EXTEND PLATE (2) STUDS BEYOND CENTER OF END FIXTURE.
3. PROVIDE THREADED SELF-TAPPING HOLES IN PLATE FOR FIXTURE SUPPORT CARRIER MOUNTING.

C5 D.F. MOUNTING

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

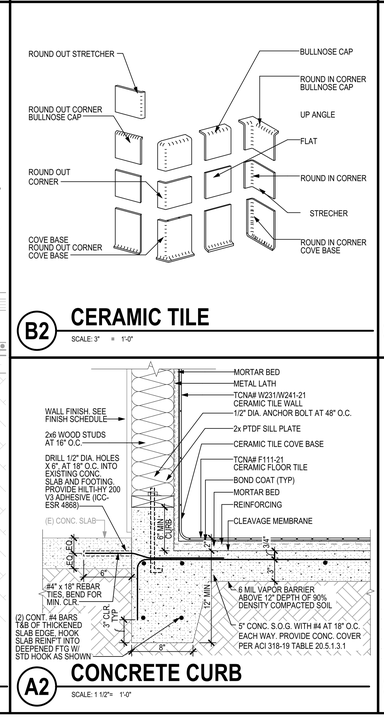
C6 NEW RESTROOM WALLS

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



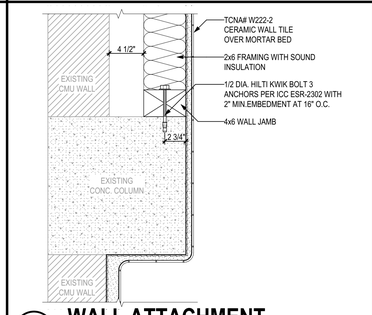
A1 CONCRETE CURB

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



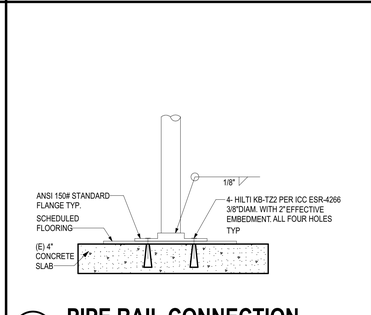
B2 CERAMIC TILE

SCALE: 3" = 1'-0"



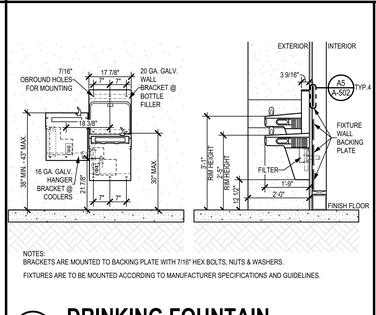
B3 WALL ATTACHMENT

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



B4 PIPE RAIL CONNECTION

SCALE: 1" = 1'-0"

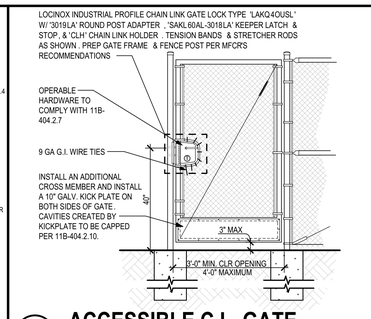


NOTES:
BRACKETS ARE MOUNTED TO BACKING PLATE WITH 7/16" HEX BOLTS, NUTS & WASHERS.

FIXTURES ARE TO BE MOUNTED ACCORDING TO MANUFACTURER SPECIFICATIONS AND GUIDELINES.

B5 DRINKING FOUNTAIN

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

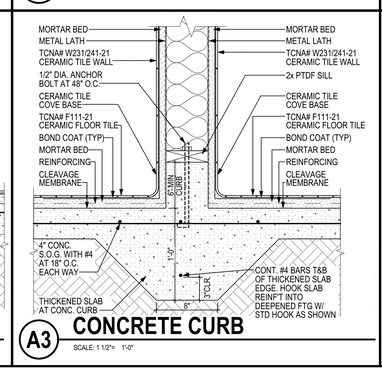


B6 ACCESSIBLE C.L. GATE

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

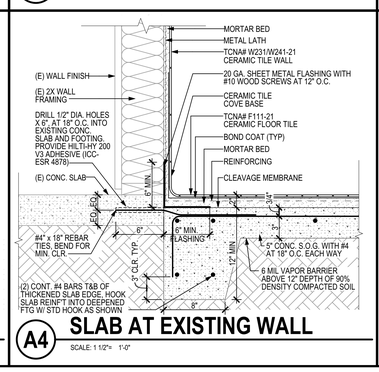
A2 CONCRETE CURB

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



A3 CONCRETE CURB

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



A4 SLAB AT EXISTING WALL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280 o: (661) 832-5258
Bakersfield, CA 93309 f: (661) 832-4291
www.ordizmelby.com

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

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BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION

JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

DETAILS

SHEET IDENTIFICATION NUMBER

A-502

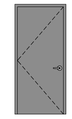
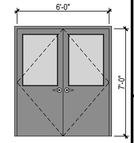
SHEETS IN SET 53

PLOT DATE: 3:36 PM
PLOTTED BY: ADRIAN SANCHEZ

DOOR AND FRAME SCHEDULE

DOOR	TYPE	DOOR					FRAME					DOOR RATING	HARDWARE		REMARKS
		SIZE			MATERIAL	FINISH	MATERIAL	FINISH	DETAIL				SET NUMBER	PANIC	
		W	HT	THK					HEAD	JAMB	SILL				
101	A	3'-0"	7'-0"	1 3/4"	HM	P2	HM	P2	D1/A-501	D1/A-501	D1/A-501	90 MIN	-	-	-
102	B	6'-0"	7'-0"	1 3/4"	HM	P2	HM	P2	-	-	-	-	-	-	-
103	A	3'-0"	7'-0"	1 3/4"	HM	P2	HM	P2	D1/A-501	D1/A-501	D1/A-501	90 MIN	-	-	-
104	A	3'-0"	7'-0"	1 3/4"	HM	P2	HM	P2	D2/A-501	C2/A-501	B1/A-501	-	1	-	-
105	A	3'-0"	7'-0"	1 3/4"	HM	P2	HM	P2	D1/A-501	C1/A-501	B1/A-501	-	2	-	-

DOOR & FRAME TYPE SCHEDULE

TYPE	A	B
ELEVATION		

FINISH KEY

MARK	FINISH
HM	HOLLOW METAL
P2	PAINT: SEMI-GLOSS ENAMEL

INTERIOR FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR		BASE		WAINSCOT		WALL A		WALL B		WALL C		WALL D		CEILING		REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERI...	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
101	MULTIPURPOSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
102	WOMEN'S RESTROOM	CT	FF	CT-CB	FF	-	-	CT	FF	CT	FF	CT	FF	CT	FF	GYP	FF	-
103	MEN'S RESTROOM	CT	FF	CT-CB	FF	-	-	CT	FF	CT	FF	CT	FF	CT	FF	GYP	P1	-
109	RESTROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
110	VESTIBULE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
121	RESTROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
130	STOR.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
131	VESTIBULE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FINISH & MATERIAL KEY

FINISH KEY		MATERIAL KEY	
MARK	FINISH	MARK	MATERIALS
FF	FACTORY FINISH	CT	CERAMIC TILE
		CT-CB	CERAMIC TILE COVED BASE 6"
		GYP	5/8" GYP BOARD, TAPE, SAND & MEDIUM TEXTURE

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APP: 03-124361 INC:
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DATE: 03/27/2025

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	.	

JOB NUMBER:
2324

AR: 03-124361
PTN: 63826-21

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2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

DOOR AND FINISH SCHEDULES

SHEET IDENTIFICATION NUMBER

A-601

SHEETS IN SET 53

PLOT DATE: 3:36 PM
PLOT BY: A.SARAS
PLOTTED: 1:1/8"=1'-0"

Equipment Anchorage Notes:

All Mechanical, Plumbing, and Electrical components shall be anchored and installed per the details on the DSA approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26 and 30.

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

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

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

The anchorage of all Mechanical, Electrical and Plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with 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 Section 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#) #_____.

Codes:

California Code of Regulations (C.C.R)

Part 1 - 2022 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2022 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.
Part 3 - 2022 California Electrical Code, Title 24, C.C.R.
Part 4 - 2022 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2022 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2022 California Energy Code, Title 24, C.C.R.
Part 9 - 2022 California Fire Code, Title 24, C.C.R.

Standards and Guides:

ADAAG - American with Disabilities Act, Accessibility Guidelines.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2022 Edition.

PLUMBING LEGEND

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	ACC.	ACCESSIBLE	G.W.	GRD.	GRADE
	A.D.	ACCESS DOOR/WALL BOX	G.W.	G.W.	GREASE WASTE
	A.F.F.	ABOVE FINISHED FLOOR		H.B.	HOSE BIBB
	C.D.	CONDENSATE DRAIN		H.V.(A-C)	AIR CONDITIONING EQPT.
	C.I.	CAST IRON		L.	LAVATORY
	CLG.	CEILING		LOC.	LOCATION
C.O.	C.O.	CLEANOUT		(N)	NEW
	COMB.	COMBUSTION		N.I.C.	NOT IN CONTRACT
	CONN.	CONNECTION	— ⊣I OR —><	P.O.C.	POINT OF CONNECTION
	CONT.	CONTINUATION		PROV.	PROVIDE
G.O.T.G.	GOTG	CLEANOUT TO GRADE		P.R.V.	PRESSURE REDUCING VALVE
(D)C.W.	(D)C.W.	(DOMESTIC) COLD WATER		R.D.	ROOF DRAIN
D.H.	D.H.	DEMO HATCH		R.W.L.	RAINWATER LEADER
(D)H.W.	(D)H.W.	(DOMESTIC) HOT WATER		S.	SINK
(D)H.W.R.	(D)H.W.R.	(DOMESTIC) HOT WATER RETURN		S.&W.	SOIL AND WASTE
DN.	DN.	DOWN		SIM.	SIMILAR
DR.	DR.	DRAIN	IO OR ⊗ OR ⋈	S.O.V.	SHUT OFF VALVE
(E).	(E).	EXISTING		SS	STAINLESS STEEL
(E)C.W.	(E)C.W.	EXISTING COLD WATER		S.S.	SERVICE SINK
(E)H.W.	(E)H.W.	EXISTING HOT WATER		SURF.	SURFACE
(E)H.W.R.	(E)H.W.R.	EXISTING HOT WATER RETURN		T.&P.	TEMPERATURE AND PRESSURE RELIEF
(E)C.D.	(E)C.D	EXISTING CONDENSATE DRAIN		T.P.	TRAP PRIMER
E.D.F.	E.D.F.	ELECTRIC DRINKING FOUNTAIN		(TYP)	TYPICAL
E.W.H.	E.W.H.	ELECTRIC WATER HEATER		UR.	URINAL
F.C.O.	F.C.O.	FLOOR CLEANOUT	— —— —o	V.O.	VENT OFFSET
F.D.	F.D.	FLOOR DRAIN	⊙	V.T.R.	VENT THRU ROOF
F.L.R.	F.L.R.	FLOOR	— — — — —	(E) W.	EXISTING WASTE
F.S.	F.S.	FLOOR SINK		W.	WASTE
G.	G.	GAS		W.C.	WATER CLOSET
(E) G.	(E) G.	EXISTING GAS		W.H.	WATER HEATER
G.D.	G.D.	GARBAGE DISPOSAL	o⊣	W.C.O.	WALL CLEANOUT

Plumbing Fixture Schedule:

WC-1

Floor mounted F.V. elongated accessible water closet, "Kohler" # K-96057 *Highcliff*, "Olsonite" # 10CC open-front white seat, bolt caps,"Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve, 1-1/4" C.W.(reduce to 1" @ flush-valve), 3" S. & W., 2" V.O., (see plan for trap primer accessory)

WC-2

Floor mounted F.V. elongated water closet, "Kohler" # K-96053 *Welcomme*, "Olsonite" # 10CC open-front white seat, bolt caps,"Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve, 1-1/4" C.W.(reduce to 1" @ flush-valve), 3" S. & W., 2" V.O., (see plan for trap primer accessory)

UR

Wall mt'd. accessible urinal, "Kohler" # K-4991-ET-0 *Bardon*,"Zurn" # ZER6003AV-ULF-CP battery powered (pint) sensor flush-valve, wall hanger, (mount hanger per detail on plans) see manufacturers installation instructions for mounting heights, 3/4" C.W., 2" W., 2" W.C.O., 1-1/2" V.O.

L

Wall hung vitreous china accessible lavatory, "Kohler" # K-2007 (21" x 18") Kingston, offset grid drain, "Zurn" #Z6950-XL-S-F sensor faucet (0.5 GPM), (1) threaded angle wall stop with braided S.S. supply, 17 ga. C.P. trap/offset tailpiece, 1/2" C.W., 2" W., 2" W.C.O., 1-1/2" V., provide "J.R. Smith" # 720 stud mounted support arms

FD

Cast iron floor drain/ shower drain, "J.R. Smith" #2005 with 5" dia. bronze grate or 2005-B with square grate (see plans), 2" trap with primer connection (plug trap primer connection for showers), 2" W., 1-1/2" V.O. (2" V.O. below slab if shown)

EDF

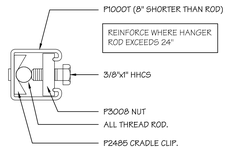
Wall mounted electric dual hi-lo accessible drinking fountain / hydration bottle-fill station, "Elkay" # EZSTL8WSK, 1/5th H.P. @ 120v.-1ph., (2) threaded angled wall stops with braided stainless steel supplies, 17 ga. C.P. trap/tailpiece, 2" W., 2" W.C.O., 1-1/2" V.O., 1/2" C.W.

EXHAUST FAN & GRAVITY VENT SCHEDULE

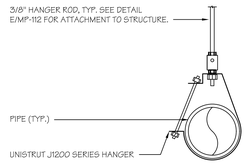
EF-1

Greenheck SP-A390-VG Ceiling Mounted Exhaust Fan. 300 CFM @ 0.20" E.S.P., 1154 RPM, 48 watts, 3.5 sones. Single speed fan with ECM motor, duct collar with integral backdraft damper, motor rated for continuous use, grille motion detector (filed installed), Energy Star rated, time delay relay and NEMA-1 toggle switch. Set up fan to operate as follows: Upon motion detection, fan to operate at set speed. Time delay for twenty minutes at set speed after motion is satisfied

Electrical: 48 Watts @ 115v-1ph. Operating Weight: 24 Lbs.



HANGER ROD REINFORCEMENT D
SCALE: N.T.S.

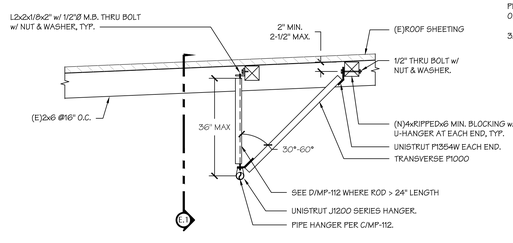


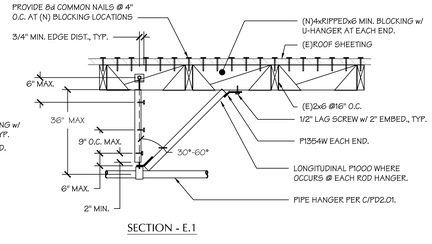
PIPE SUPPORT HANGER

PIPE HANGERS C
SCALE: N.T.S.

DIELECTRIC ASSEMBLY A
SCALE: N.T.S.

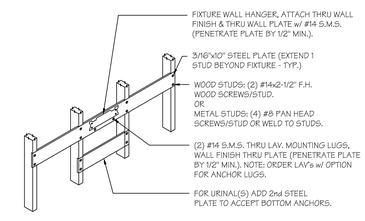
NOTES:
- MAX LOAD = 5 lbs.
- WHERE L>24", SEE DETAIL D/MP-112.





SECTION - E.1

HANGER/ BRACING FOR PIPING E
SCALE: N.T.S.



URINAL MOUNTING B
SCALE: N.T.S.

BRACING AND HANGING TABLE

PIPE SERVICE	SIZE	MAX HANGER SPACING (1)	MAX. BRACE SPACING (2)
WATER	< 1"	6 ft	N/A
WATER	1" - 1½"	6 ft	12 ft
WATER	> 2"	10 ft	20 ft
VENT	ANY	10 ft	20 ft

1.) IN ADDITION TO SPACING NOTED, PROVIDE SUPPORT AT EACH FITTING OR JOINT.
2.) A MIN. OF (2) BRACES, (1) AT EACH END OF PIPE RUN EXCEEDING 10 ft IN LENGTH. (BOTH LONGITUDINAL AND TRANSVERSE)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280 o: (661) 832-5268
Bakersfield, CA 93309 f: (661) 832-4291
www.ordizmelby.com

JEANINE S. BERTOLACCINI C-35596 OCTOBER 31, 2025 RENEWAL DATE
LICENSED ARCHITECT STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36264
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

AR: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

NOTES, SCHEDULES, & DETAILS

REGISTERED PROFESSIONAL ENGINEER ROBERT JAMES BASKIN No. M26719 Exp. 06-30-24 MECHANICAL STATE OF CALIFORNIA

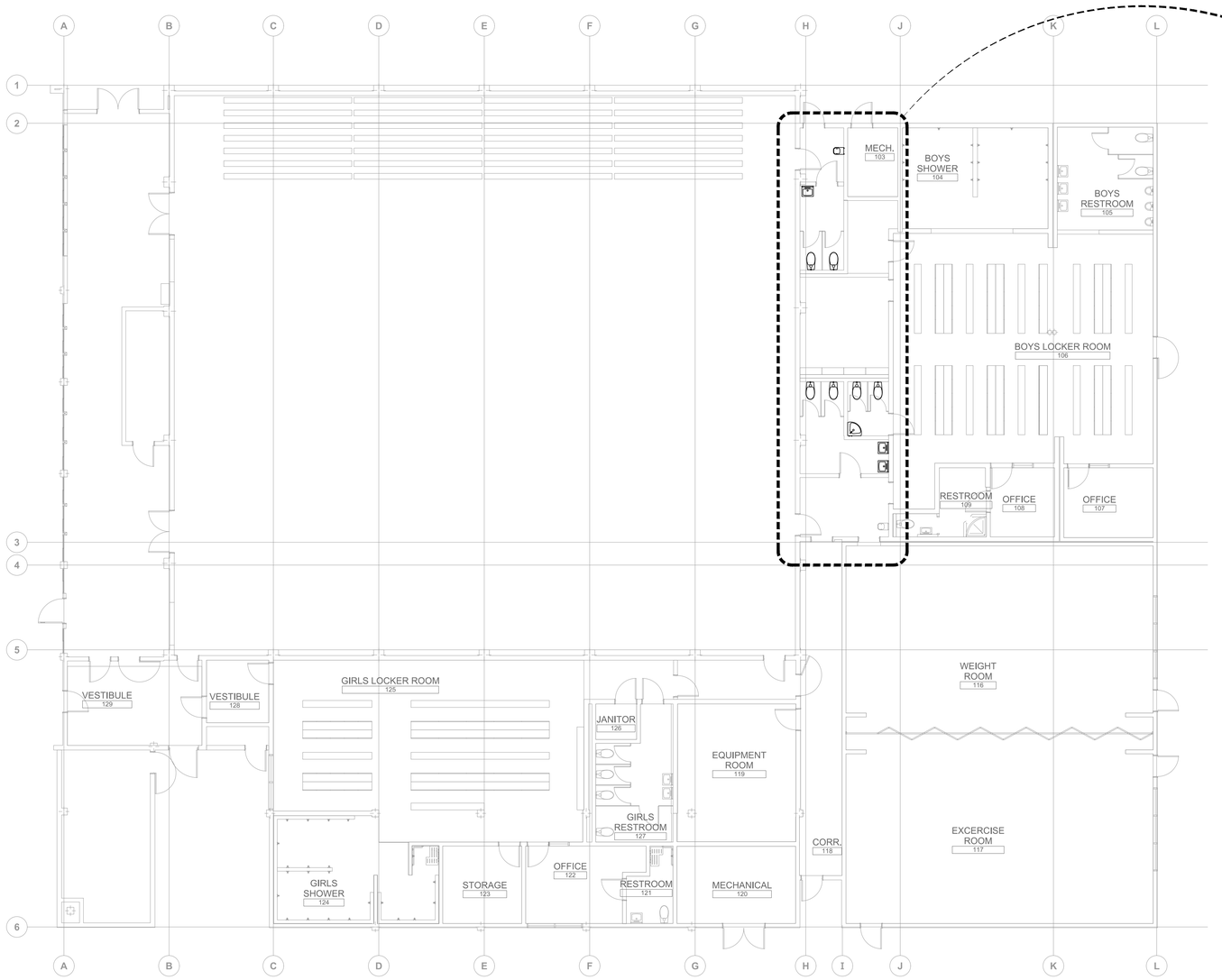
BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 24019
Plt: 08-08-24

SHEET IDENTIFICATION NUMBER

MP-112

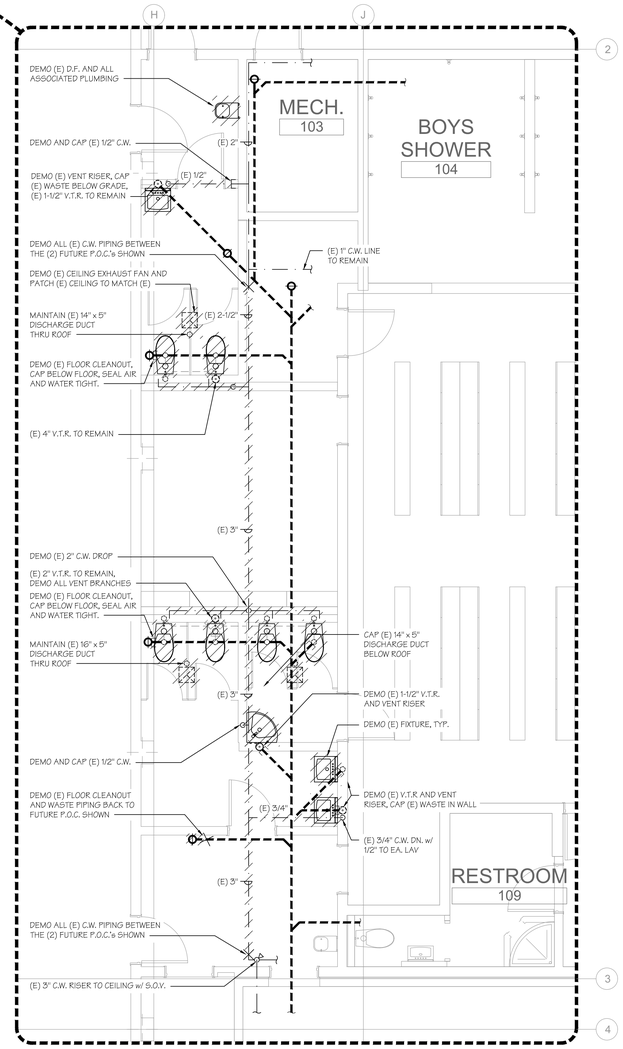
SHEETS IN SET 53

PLOT DATE: 3:38 PM
PLOTTED BY: TOM



OVERALL DEMO PLAN

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



PARTIAL DEMO PLAN

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

A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36234
JAMES R. VARNER, AIA ARCHITECT C-10963
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JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

A#: 03-124361
PTN: 63626-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

SHEET TITLE

DEMO FLOOR PLAN

REGISTERED PROFESSIONAL ENGINEER
JAMES RAMON BASKIN
No. M26577
Exp. 06-30-24
MECHANICAL
STATE OF CALIFORNIA

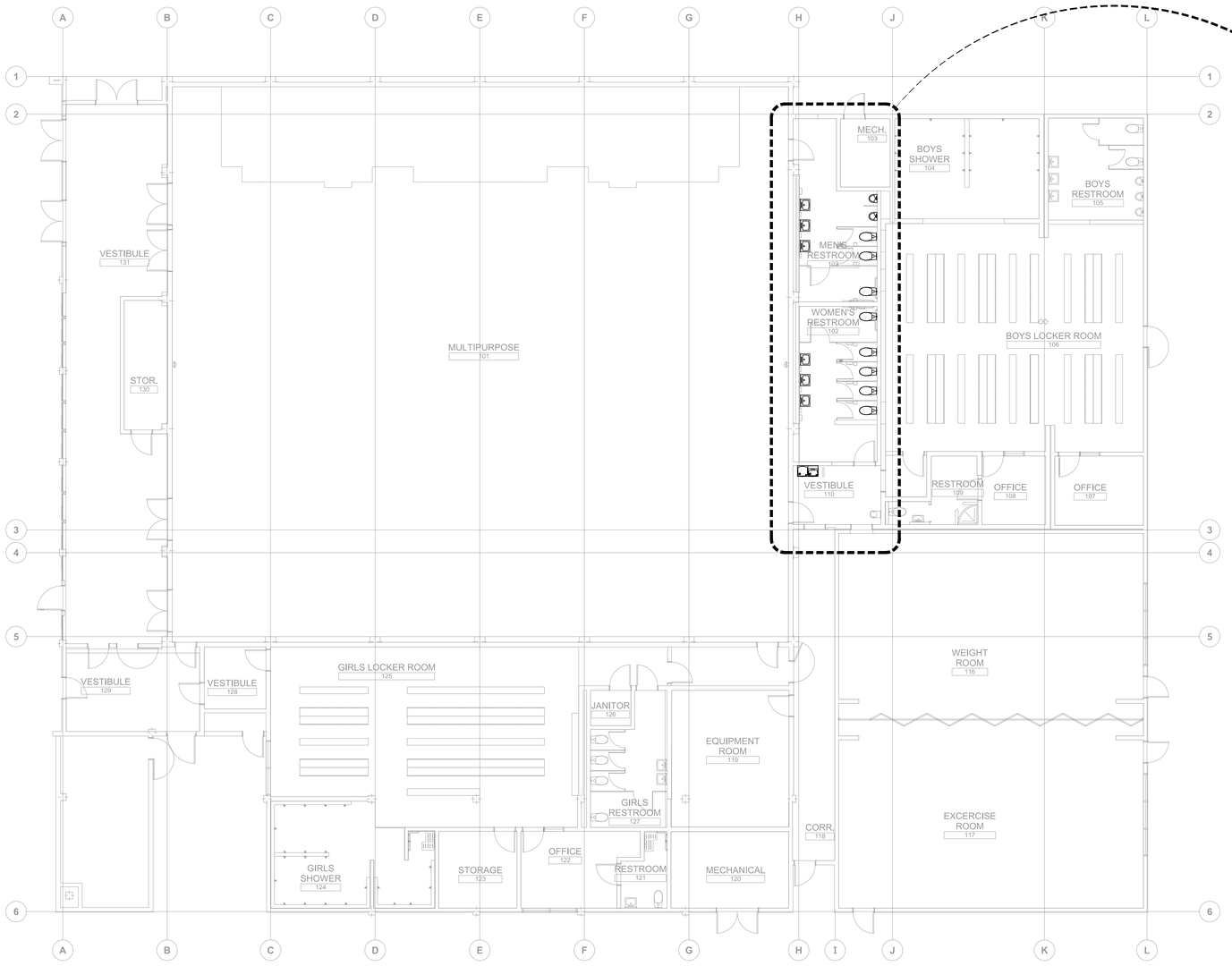
BME BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 24019
Plt: 08-08-24

SHEET IDENTIFICATION NUMBER

MP-120

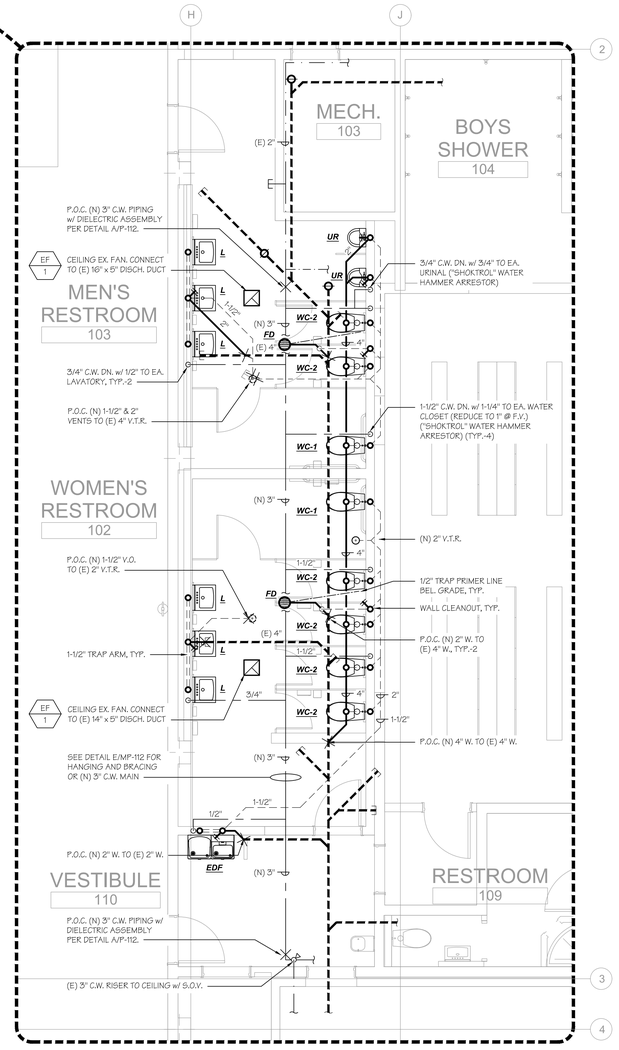
SHEETS IN SET 53

PLOT TIME 3:09 PM
PLOT DATE 3/26/25



OVERALL PLAN

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



PARTIAL PLAN

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

A

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LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA
ARCHITECT C-35596
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ARCHITECT C-36234
JAMES R. VARNER, AIA
ARCHITECT C-10963
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ARCHITECT C-14762
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ARCHITECT C-36742

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TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
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JOB NUMBER:
2324

A#: 03-124361
P.T.N: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

FLOOR PLAN

REGISTERED PROFESSIONAL ENGINEER
MARK JAMES BASKIN
No. M26577
Exp. 11-30-24
MECHANICAL
STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 24019
Plt: 08-08-24

SHEET IDENTIFICATION NUMBER

MP-121

SHEETS IN SET 53

PLOT DATE: 3:36 PM
PLOT BY: ARTURO SARABIA

LED FIXTURE SCHEDULE

		LED MODULE					
TYPE	MANUFACTURER AND CATALOG NUMBER	TYPE	COLOR TEMP	WATTS	DRIVER	OPTIC/LENS	REMARKS
A 42	KENALL MLH A8 48R MW PP 45L 40K DCC DV		4000K	42	010V	PEARLESCENT	4 FT HIGH ABUSE WRAP
EM 6	ISOLITE BUG 6 WH		4000K	6	NICAD BATTERY	PRISMATIC	EM LIGHT

(E) PANEL SCHEDULE "G"

SERVICE: 120/208V 3Φ 4W | MAIN BKR.: MLO | BUS: 200A | LOC.: SEE PLAN
GE LOADCENTER | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LTG	MISC	POLE	TRIP	CIRC		CIRC	TRIP	POLE	REC	LTG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
PANEL "GL"							2	100	1		2	20	1							OUTSIDE GFCI
"							X	X	3		4	20	1							GYM LIGHT CONTROL
RECEPTACLES							1	20	5		6	20	1							SP
"							1	20	7		8	20	1							RECEPTACLES
SP							1	20	9		10	20	1							"
HEATER							1	20	11		12	20	1							LOBBY LIGHTS
RECEPTACLES							1	20	13		14	20	1							EXIT LIGHTS
"							1	20	15		16	20	1							LOBBY HEATER
OUTSIDE LTS							1	20	17		18	20	1							SP
SPOT LTS							1	20	19		20	20	1							PLUG MOLD
"							1	20	21		22	20	1							BDH
"							1	20	23		24	20	1							GYM WEST REC
"							1	20	25		26	20	1							BDH
"							1	20	27		28	20	1							RECEPTACLES
"							1	20	29		30	20	1							POPCORN
"							1	20	31		32	20	1							GFCI
"							1	20	33		34	20	1							GFCI
EVAP COOLER						1	2	25	35		36	20	2			1				EF
"							X	X	37		38	X	X							"
EVAP COOLER						1	2	25	39		40	20	2			1				EF
"							X	X	41		42	X	X							"
TOTAL WATTS=		ΦA=						ΦB=											ΦC=	
AMPS=								MINIMUM BKR				A.I.C. RATING=		10,000 AMPS		SYM				

EXISTING ELECTRICAL SERVICES HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION SHOWN ON THESE PLANS.
SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS

GENERAL NOTES

1. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2022 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
6. FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
7. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
8. CHECK ARCHITECTURAL PLANS FOR DOOR SWINGS BEFORE INSTALLING SWITCH OUTLETS.
9. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
10. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
11. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
12. ALL CONDUCTORS SHALL BE IN CONDUIT.
13. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURE 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

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 PREAPPROVED INSTALLATION GUIDE (E.G., HCAI 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 HCAI PREAPPROVAL (OPM #) #_____.

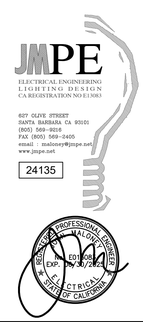
SYMBOLS

- CONDUIT EXISTING
- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
- CONDUIT STUBBED OUT AND CAPPED
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- HATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1"C., NO MARKS = 2#12
- A-3 HOME RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES CIRCUIT(S).
- SAWCUT
- GROUND CONNECTION
- DISTRIBUTION SWITCHBOARD OR PANEL
- PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH
- SIGNAL TERMINAL CABINET, SURFACE & FLUSH
- LINEAR SURFACE FIXTURE
- 2a OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.
- SURFACE FIXTURE ON FLUSH OUTLET.
- RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING
- EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND CEILING MOUNT.
- LOW LEVEL EXIT SIGN, +6" AFF, +4" FROM DOOR JAMB
- A/100 LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.
- FC/1 MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.
- SPECIAL RECEPTACLE - SEE PLAN
- METER
- FLUSH FLOOR RECEPTACLE
- RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +18" U.N.O.
- DUPLEX RECEPTACLE MTD. ABOVE BACKSPLASH
- DUPLEX RECEPTACLE W/LOWER HALF SWITCHED
- GFI GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- CEILING RECEPTACLE
- RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" U.N.O.
- JUNCTION BOX 4" SQUARE, 1-1/2" DEEP U.N.O.
- THERMOSTAT F.B.O. +48"
- MOTOR, NO. INDICATES HORSEPOWER
- CLOCK OUTLET +7'-6" U.N.O.
- DISCONNECT SWITCH, NON-FUSED
- DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS NOTED
- COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND FUSES
- MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE
- DIMMER W/INTEGRAL "ON-OFF" SW.
- PUSHBUTTON
- PC PHOTOCELL
- SD SMOKE DETECTOR
- TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/1 GANG COVERPLATE & GROMMETED OPENING +18" U.N.O.
- CABLE TV OUTLET +18" U.N.O.
- MOTION SENSOR
- $ EXISTING SWITCH
- ^{S} SINGLE POLE SWITCH
- $^{S^2}$ DOUBLE POLE SWITCH
- $^{S^3}$ THREE WAY SWITCH
- $^{S^P}$ SWITCH W/PILOT LT.

  (QUIET TOGGLE TYPE RATED AT 20A, 120/277V A.C. +42" U.N.O.)
- $^{S^M}$ MANUAL MOTOR STARTER
- FACP FIRE ALARM CONTROL PANEL
- GFI GROUND FAULT CIRCUIT INTERRUPTING
- LST LABOR SAVING TANDEM
- MLO MAIN LUGS ONLY
- w/ WITH
- C.O. CONDUIT ONLY
- W.P. WEATHERPROOF
- F.B.O. FURNISHED BY OTHERS, INSTALL & CONNECT
- U.N.O. UNLESS NOTED OTHERWISE
- N.E.C. NATIONAL ELECTRICAL CODE
- N.I.C. NOT IN CONTRACT
- (E) EXISTING
- (N) NEW
- (R) REMOVE
- (RL) RELOCATE
- S/M SURFACE MOUNT
- U/G UNDERGROUND
- CWP COLD WATER PIPE
- AFF ABOVE FINISHED FLOOR
- HACR HEATING AND AIR CONDITIONING RATED CIRCUIT BREAKER
- N.L. NIGHT LIGHT

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
627 OLIVE STREET
SANTA BARBARA, CA 93101
(805) 569-8018
FAX (805) 569-2405
email : malcomj@jmpe.net
www.jmpe.net
24135



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280 o: (661) 832-5268
Bakersfield, CA 93309 f: (661) 832-4291
www.ordizmelby.com

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36294
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324
A#: 03-124361
PTN: 03826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

GENERAL NOTES, SYMBOLS, SCHEDULES & DETAILS

SHEET IDENTIFICATION NUMBER

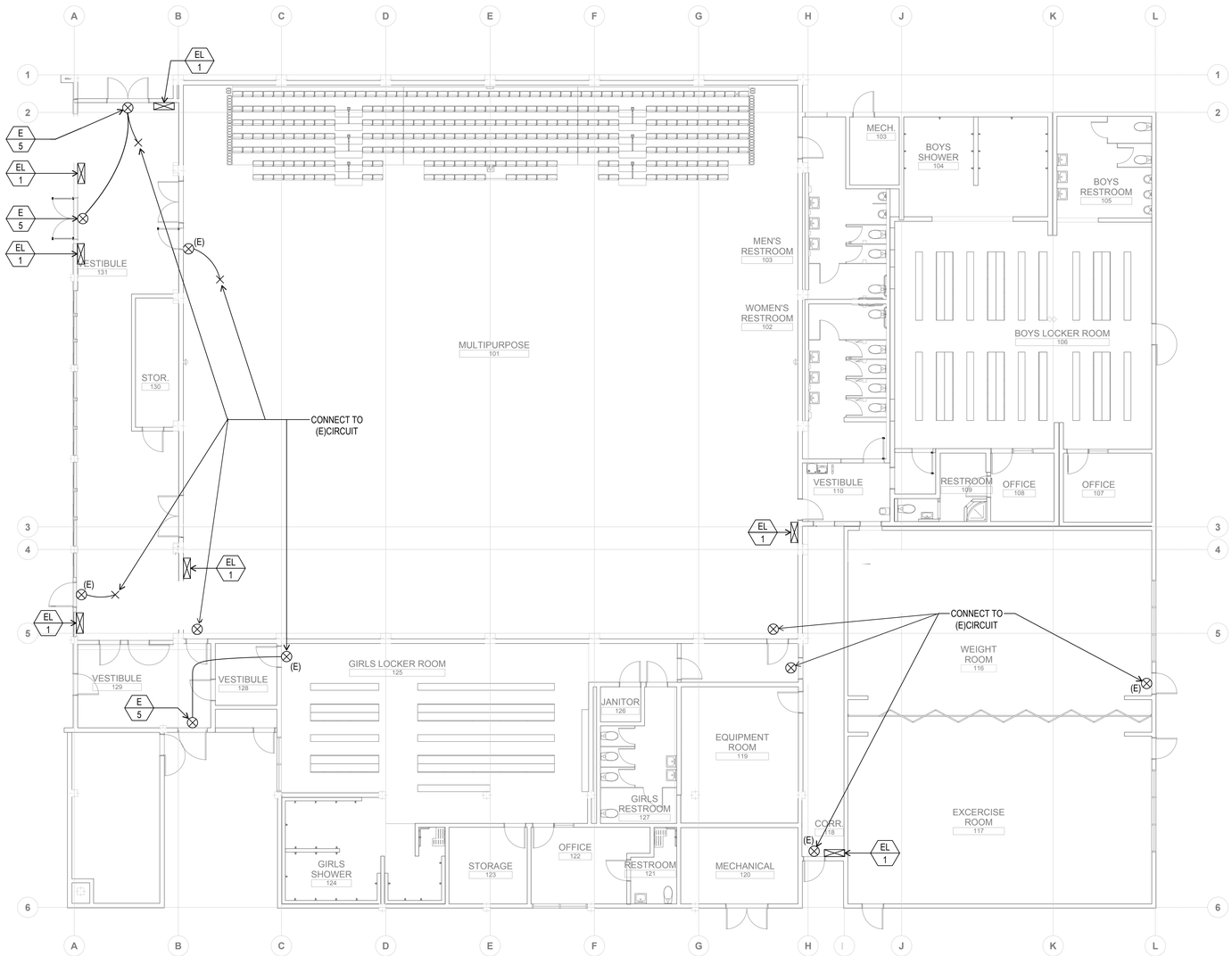
E-100

SHEETS IN SET 53

PLOTTING: 3:57PM
PLOTTED BY: ASHLEY
PLOTTED: 3/26/25

LED FIXTURE SCHEDULE

TYPE	MANUFACTURER AND CATALOG NUMBER	LED MODULE TYPE	LED MODULE COLOR TEMP	LED MODULE WATTS	DRIVER	OPTIC/LENS	REMARKS
E 5	LITHONIA PRECISE LPR 1 GC ELN		LED	5	NICAD BATTERY	GREEN	SINGLE FACE EXIT SIGN WITH 90 MIN. BATTERY BACK-UP - EDGE LIT
EM 6	ISOLITE BUG 6 WH		4000K	6	NICAD BATTERY	PRISMATIC	EM LIGHT
EL 1	LITHONIA D-S-W-1-G-20-IF		SELF-LUMINOUS		NONE	GREEN	LOW LEVEL, SELF-LUMINOUS, WALL MOUNT, EXIT SIGN W/ TRITIUM FIELD GAS TUBES



EXIT LIGHT PLAN

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

PLOT TIME 3:39 PM
PLOT DATE 3/6/2025

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ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

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JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36234
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

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FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

A#: 03-124361
PTN: 63626-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083

627 OLIVE STREET
SANTA BARBARA, CA 93101
(805) 569-9216
FAX (805) 569-2405
email : maloney@jmpe.net
www.jmpe.net

24135

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
E013083
EXP. 09/30/2025
STATE OF CALIFORNIA

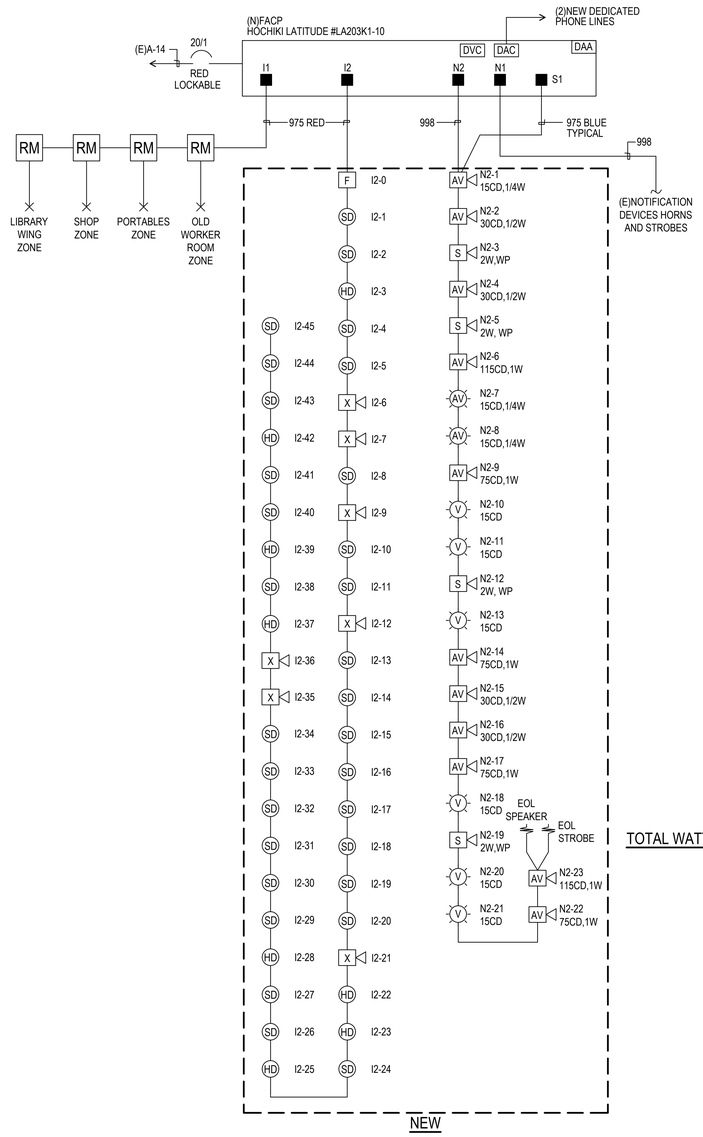
SHEET TITLE

EXIT LIGHT PLAN

SHEET IDENTIFICATION NUMBER

E-101

SHEETS IN SET 53



TOTAL WATTS = 14.75W

FIRE ALARM RISER DIAGRAM

SCALE : NONE

PLOT TIME: 3:58 PM
PLOT DATE: 3/26/25

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ordiz melby architects
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5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
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OCTOBER 31, 2025
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JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
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JOB NUMBER:
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(805) 569-9010
FAX (805) 569-2405
email : mailcore@jmpe.net
www.jmpe.net
24135

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
No. E011438
EXP. 09/30/2025
STATE OF CALIFORNIA

SHEET TITLE

FIRE ALARM RISER DIAGRAM

SHEET IDENTIFICATION NUMBER

E-110

SHEETS IN SET 53

FIRE ALARM SYMBOL LIST MATRIX

	SYMBOL	DEVICE	MFR & CAT#	REMARKS	CSFM LISTING
NEW	■	MAIN FIRE ALARM PANEL	HOCHIKI LA203K1-10	SURFACE MOUNT W/ SOFTWARE UDPATE	7165-0410:0506
NEW	DVC	DIGITAL VOICE COMMAND	HOCHIKI FNV-DP-100	SURFACE MOUNT	6911-0410:0175
NEW	DAC	DIGITAL COMMUNICATOR	HOCHIKI HSB-NSA-6	PART OF NFS2-640	7300-0410:0132
NEW	SD	SMOKE DETECTOR	HOCHIKI ALN-V	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7272-0410:0204
NEW	HD	HEAT DETECTOR (IN ATTIC SPACE)	HOCHIKI ATJ-EA	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7270-0410:0203
NEW	F	ADDRESSABLE MANUAL PULL STATION	HOCHIKI DCP-AMS	PROVIDE 4"SQ. DEEP BOX	7150-0410:0169
NEW	AV	SPEAKER STROBE	HOCHIKI HSSPK24CLPR	PROVIDE DEEP SQ J-BOX	7320-0410:0194
NEW	S WP	EXTERIOR SPEAKER	GENTEX WSSPKR	PROVIDE MWBB BACKBOX	7320-0569:0141
NEW	———	FPLR CABLE	WESTPENN 975	18/2 BARE, CU, SHIELDED	7161-0859:0101
NEW	———	FPLR CABLE	WESTPENN 998	12/2 SOLID, CU, UNSHIELDED	7161-0859:0102
NEW	———	FPLR CABLE	WESTPENN AQ294	18/2 STRANDED, CU, SHIELDED W/ AQUASEAL	7161-0859:0103
NEW	———	FPLR CABLE	WESTPENN AQC294	18/2 STRANDED, CU, SHIELDED W/ AQUASEAL	7161-0859:0104
NEW	RM	DUAL RELAY MODULE	HOCHIKI R2ML	SURFACE MOUNT	7300-0410:0150

NEW FACP BATTERY CALCULATION MFACP, HOCHIKI LATITUDE

EQUIPMENT DESCRIPTION	QUANTITY		SUPERVISORY CURRENT (AMPERES)		ALARM CURRENT (AMPERES)	
	EXISTING	NEW	EACH	SUB-TOTAL	EACH	SUB-TOTAL
FIRE ALARM PANEL	0	1	0.25	0.25	0.25	0.25
KDM	0	1	0.1	0.1	0.1	0.1
DIGITAL ALARM COMMUNICATOR	0	1	0.052	0.052	0.087	0.087
DVC	0	1	0.44	0.44	0.44	0.44
DAA 5025	0	1	0.35	0.35	1.9	1.9
BEAM DETECTOR						
PULL STATION	0	0	0.0003	0	0.0005	0
SMOKE DETECTOR	0	20	0.00039	0.0078	0.00039	0.0078
HEAT DETECTOR	0	20	0.00035	0.007	0.00035	0.007
			0.00039	0.00039		
VISUALS 15cd	0	0			0.066	0
VISUALS 30cd	0	0			0.077	0
VISUALS 75cd	0	10			0.158	1.58
VISUALS 115cd						
SUB TOTAL AMPERES			1.20719 AMPS		4.3718 AMPS	
			x 24 HOURS		X 0.25 HOURS	
SUB TOTAL AMPERE-HOURS			28.97256 A.H.		1.09295 A.H.	
TOTAL REQUIRED AMPERE-HOURS FOR DISTRIBUTED POWER MODULE					30.06551 A.H.	
BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR					x 1.2	
TOTAL MINIMUM AMPERE HOURS REQUIRED					36.07861 A.H.	
PROVIDED BATTERY CAPACITY					55.00 A.H.	

FIRE ALARM SEQUENCE OF OPERATION

INPUT & OUTPUT MATRIX		SYSTEM INPUTS: AREA SMOKE DETECTOR	AREA HEAT DETECTOR		FIRE ALARM SYSTEM AC POWER FAILURE	FIRE ALARM SYSTEM LOW BATTERY	OPEN CIRCUIT	GROUND FAULT	NOTIFICATION APPLIANCE CIRCUIT SHORT
SYSTEM OUTPUTS									
Control Unit Annunciation	ACTUATE COMMON ALARM SIGNAL INDICATOR (RED LED)	●	●						
	ACTUATE AUDIBLE ALARM SIGNAL (PIEZO BUZZER)	●	●						
	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR (AMBER LED)								
	ACTUATE AUDIBLE SUPERVISORY SIGNAL (PIEZO BUZZER)								
	ACTUATE COMMON TROUBLE SIGNAL INDICATOR (AMBER LED)				●	●	●	●	●
	ACTUATE COMMON TROUBLE SIGNAL (PIEZO BUZZER)				●	●	●	●	●
Notification	ACTUATE EVACUATION SIGNAL THROUGHOUT THE BUILDING SPEAKERS, & SPEAKER/STROBES	●	●						
	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	●	●						
	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION								
	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION				●	●	●	●	●
Supplementary									

FIRE LIFE SAFETY NOTES

1 CBC 3401.12 - BUILDING AND PARTS OF THEREOF SHALL BE MAINTAINED IN A SAFE AND SANITARY CONDITION. DEVICES OR SAFEGUARDS WHICH ARE REQUIRED BY THIS CODE SHALL BE MAINTAINED IN CONFORMANCE WITH THE CODE EDITION UNDER WHICH INSTALLED. THE OWNER OR THE OWNERS DESIGNATED AGENT SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF BUILDING.

2 CFC 503.1; TITLE 19 DIVISION 1§3.05 MAINTAIN FIRE ACCESS ROUTE(S). PUBLIC STREET ACCESS - PROVIDE SIGN(S) NO PARKING FIRE LANE WITH CALIFORNIA VEHICLE CODE 22500.1 AND DETAIL. (OR INCLUDE NOTE - EXISTING NO PARKING FIRE LANE SIGN TO BE FIELD VERIFIED BY IOR)

3 CFC 503.1 - MAINTAIN / PROVIDE KEY BOXES FOR FIRE DEPARTMENT ACCESS, AS APPROPRIATE.

4 CFC 701.2 - WHERE ANY COMPONENTS IN THIS CHAPTER ARE NOT MAINTAINED AND DO NOT FUNCTION AS INTENDED OR DO NOT HAVE THE FIRE RESISTANCE REQUIRED BY THE CODE UNDER WHICH THE BUILDING WAS CONSTRUCTED, REMODELED OR ALTERED, SUCH COMPONENT(S) OR PORTIONS THEREOF SHALL BE DEEMED AN UNSAFE CONDITION, IN ACCORDANCE WITH SECTION 110.1.1. COMPONENTS OR PORTIONS THEREOF DETERMINED TO BE UNSAFE SHALL BE REPAIRED OR REPLACED TO CONFORM TO THAT CODE UNDER WHICH THE BUILDING WAS CONSTRUCTED, REMODELED, ALTERED OR THIS CHAPTER, AS DEEMED APPROPRIATE BY THE FIRE CODE OFFICIAL.

5 CFC 703.1 AND TITLE 19 DIVISION 1§1.14 - THE REQUIRED FIRE-RESISTANCE RATING OF FIRE-RESISTANCE CONSTRUCTION (INCLUDING WALLS, FIRESTOPS, SHAFT ENCLOSURES, PARTITIONS, SMOKE-BARRIERS, FLOORS, FIRE-RESISTIVE COATINGS AND SPRAYED FIRE-RESISTANT MATERIALS APPLIED TO STRUCTURAL MEMBERS AND FIRE-RESISTANT JOINTS SYSTEMS) SHALL BE MAINTAINED. SUCH ELEMENTS SHALL BE VISUALLY INSPECTED BY THE OWNER AND PROPERLY REPAIRED, RESTORED OR REPLACED WHEN DAMAGED, ALTERED, BREACHED OR PENETRATED. OPENINGS THROUGH FIRE-RESTANCE-RATED ASSEMBLIES SHALL BE PROTECTED BY SELF- OR AUTOMATIC-CLOSING DOORS OF APPROVED CONSTRUCTION MEETING THE FIRE PROTECTION REQUIRMENTS FOR THE ASSEMBLY.

6 CFC 703.2 - OPENING PROTECTIVE SHALL BE MAINTAINED IN AN OPERATIVE CONDITION IN ACCORDANCE WITH NFPA 80. FIRE DOORS AND SMOKE BARRIER DOORS SHALL NOT BE BLOCKED OR OBSTRUCTED OR OTHERWISE BE MADE INOPERABLE. FUSIBLE LINKS SHALL BE REPLACED PROMPTLY WHENEVER FUSED OR DAMAGED. FIRE ASSEMBLIES SHALL NOT BE MODIFIED.

7 CFC 901.4; 907.8.5 AND TITLE 19 DIVISION 1 1.14 - INSTALLATION FIRE PROTECTION SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH ORIGINAL INSTALLATION STANDARDS FOR THAT SYSTEM. REQUIRED SYSTEMS SHALL BE EXTENDED, ALTERED OR AUGMENTED AS NECESSARY TO MAINTAIN AND CONTINUE PROTECTION WHENEVER THE BUILDING IS ALTERED, REMODELED OR ADDED TO. ALTERATIONS TO FIRE PROTECTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH APPLICABLE STANDARDS.

8 TITLE 19 DIVISION 1§1.14 - EVERY FIRE ALARM SYSTEM OR DEVICE, SPRINKLER SYSTEM, FIRE EXTINGUISHER, FIRE HOSE, FIRE-RESISTIVE ASSEMBLY OR ANY OTHER FIRE SAFETY ASSEMBLY, DEVICE MATERIAL OR EQUIPMENT INSTALLED AND RETAINED IN SERVICE IN ANY BUILDING OR STRUCTURE SUBJECT TO CALIFORNIA CODE OF REGULATIONS, TITLE 19 DIVISION 1 REGULATIONS SHALL BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 19 DIVISION 1 REGULATIONS AND WITH THEIR INTENDED USE.

9 TITLE 19 DIVISION 1§3.24 - UPON DISRUPTION OF DIMINISHMENT OF THE FIRE PROTECTIVE QUALITIES OF SUCH EQUIPMENT, MATERIAL OR SYSTEMS IMMEDIATE ACTION SHALL BE INSTITUTED TO EFFECT A REESTABLISHMENT OF SUCH EQUIPMENT MATERIAL OR SYSTEMS TO THEIR ORIGINAL NORMAL OPERATIONAL CONDITION.

10 CFC 901.5.1 - IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNTIL THE REQUIRED FIRE DETECTION, ALARM SYSTEM HAS BEEN TESTED AND APPROVED.

11 CFC 901.5.1 - IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNTIL THE REQUIRED FIRE DETECTION, ALARM SYSTEM HAS BEEN TESTED AND APPROVED.

12 FIRE ALARM SCOPE REQUIRES DSA APPROVED DRAWINGS FOR REFERENCE OF AREAS IN SCOPE INCLUDE COMPLIANT FIRE ALARM COMPONENTS (SMOKE-HEAT-AUDIBLE-VISUAL-MANUAL). (STATEMENT OF COMPLIANCE PER CFC 901.2.1; 901.6.2.1 4 TITLE 19 DIVISION 1§ 904.1(b) 904.2(c) RECORD AS-BUILT DRAWINGS AND TEST REPORTS.) ROOMS / AREAS IN SCOPE TO INCLUDE EXISTING FIRE ALARM COMPONENTS.

13 CFC 1030.1 - THE MEANS OF EGRESS FOR BUILDING OR PORTIONS THEREOF SHALL BE MAINTAINED IN ACCORDANCE WITH THIS SECTION.

14 CFC 1030.4 - EXIT SIGNS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 1011.

15 CFC CHAPTER 11, PROVISIONS APPLICABLE TO EXISTING BUILDING.

16 CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION APPLICABLE PROVISIONS TO BE REPLICATED VERBATIM - SAMPLE SECTIONS - 3304 PRECAUTIONS AGAINST FIRE: 3304.2 WASTE DISPOSAL; 3304.5 FIRE WATCH; 3304.6 CUTTING AND WELDING; 3305 FLAMMABLE AND COMBUSTIBLE LIQUIDS; 3308 OWNERS RESPONSIBILITY; 3310 ACCESS FOR FIREFIGHTING; 3311 MEANS OF EGRESS; 3315 FIRE EXTINGUISHERS.

FIRE ALARM SYSTEM REQUIREMENTS

1) APPLICABLE STANDARD 2022 NFPA 72
2) 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.
3) UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4) A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5) 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.
6) DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
7) 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 LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
8) WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENS TO BE BETWEEN 80" AND 90"FROM FINISHED FLOOR.
9) WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
10) AUDIBLE DEVICES TO BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 110 DBA AT THE MINIM HEARING DISTANCE . SOUND LEVEL SHALL BE MAINTAIND FOR DURATION OF AT LEAST 60 SECTIONS 5 DBA MUST BE MAINTAINED.
11) AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12) THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13) VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14) UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
15) ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
16) PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6' OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.
17) SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18) ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19) FIRE ALARM PANEL, REMOTES, AND COMPONENETS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20) 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.
21) THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, REQUIREMENTS.
22) CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" 23) THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.3.
24) SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
25) OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
26) A DSA CLASS 3 INSPECTOR SHALL BE HIRED BY THE DISTRICT AND APPROVED BY DSA TO INSPECT THIS PROJECT.

FIRE WATCH, FIRE MARSHAL REQUIREMENTS:

REQUIREMENTS FOR DISABLING THE FIRE ALARM SYSTEM;

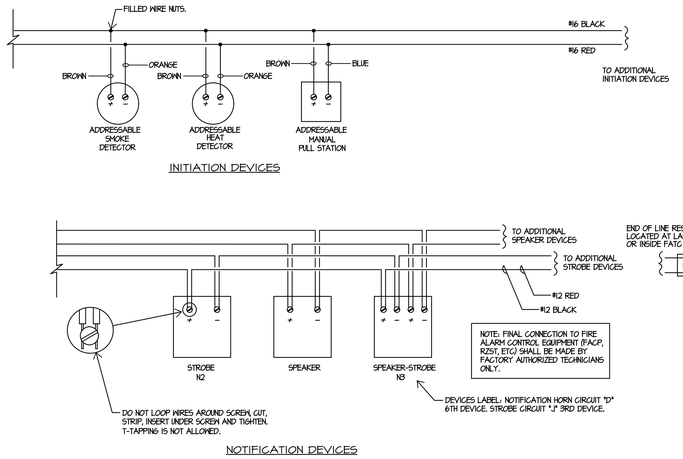
1. AS REQUIRED BY THE **2019 CALIFORNIA FIRE CODE**, STANDBY PERSONNEL OR SYSTEMS TEMPORARILY "OUT OF SERVICE". THE LOCAL FIRE MARSHAL IS AUTHORIZED TO REQUIRE THE CONTRACTOR TO PROVIDE STANDBY PERSONNEL AS SET FORTH IN THESE SECTIONS, UNTIL THE SYSTEM IS RESTORED TO OPERATION.

2. SUCH INDIVIDUAL SHALL BE SUBJECT TO THE LOCAL FIRE MARSHAL'S ORDER AT ALL TIMES WHEN SO EMPLOYED AND SHALL REMAIN ON DUTY DURING THE TIME SUCH PLACES ARE OPEN TO THE PUBLIC OR WHEN SUCH PUBLIC ACTIVITY IS BEING CONDUCTED. FIRE WATCH PERSONNEL SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION OF THE FIRE DEPARTMENT.

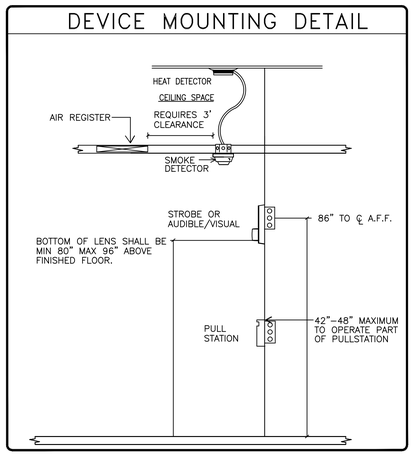
3. SUCH INDIVIDUALS SHALL KEEP A DILIGENT WATCH FOR FIRES AND BE ABLE TO TAKE PROMPT AND APPROPRIATE ACTION IN THE EVENT OF A FIRE. SUCH INDIVIDUALS SHALL NOT BE REQUIRED OR PERMITTED, WHILE ON DUTY, TO PERFORM ANY OTHER DUTIES THAN THESE HEREIN SPECIFIED.

SCOPE OF FIRE ALARM WORK

THIS IS A STAND ALONE FULLY AUTOMATIC, ADDRESSABLE FIRE ALARM SYSTEM



FIRE ALARM DEVICES
TYPICAL MOUNTING DETAIL (A)



FIRE ALARM MOUNTING DETAIL (B)

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO 11385
627 OLIVE STREET
SANTA BARBARA CA 93101
(805) 569-9016
FAX (805) 569-2405
email : maloney@jmpe.net
www.jmpe.net
24135

REGISTERED PROFESSIONAL ENGINEER — ERIC M. MALONEY — No. E21058 — EXP. 08/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT — JEANINE S. BERTOLACCINI — C-35596 — OCTOBER 31, 2025 — RENEWAL DATE — STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36234
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

A#: 03-124361
PTN: 03826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

SHEET TITLE

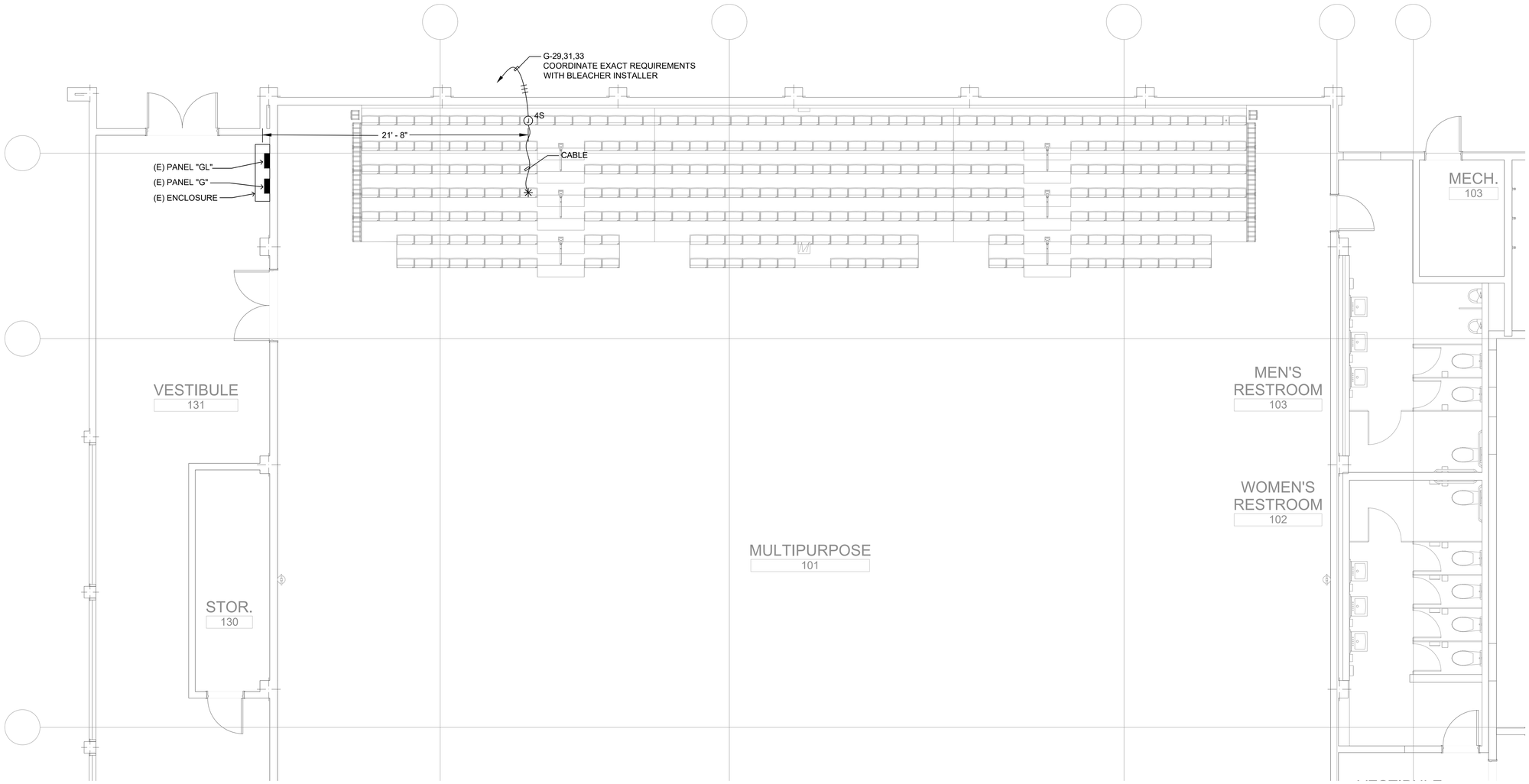
FIRE ALARM CALCULATIONS

SHEET IDENTIFICATION NUMBER

E-111

SHEETS IN SET 53

PLOT DATE: 1:38 PM
PLOT BY: Gabriel Arellano



NORTH

ENLARGED ELECTRICAL FLOOR PLAN

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

0 1 2 4 8 16

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ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14728

JEANINE S. BERTOLACCINI, AIA
ARCHITECT C-35596

MANUEL MALDONADO JR., AIA
ARCHITECT C-36264

JAMES R. VARNER, AIA
ARCHITECT C-10963

ROBERT TROST, AIA
ARCHITECT C-14762

JOSEPH E. ZASOSKI, AIA
ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
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JOB NUMBER:
2324

A#: 03-124361
PTN: 03826-21

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A.S.

CHECKED BY:
G.A.

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JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
627 OLIVE STREET
SANTA BARBARA, CA 93101
(805) 569-9216
FAX (805) 569-2405
email : malcony@jmpe.net
www.jmpe.net
24135

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
E013083
EXP. 09/30/2026
STATE OF CALIFORNIA

SHEET TITLE

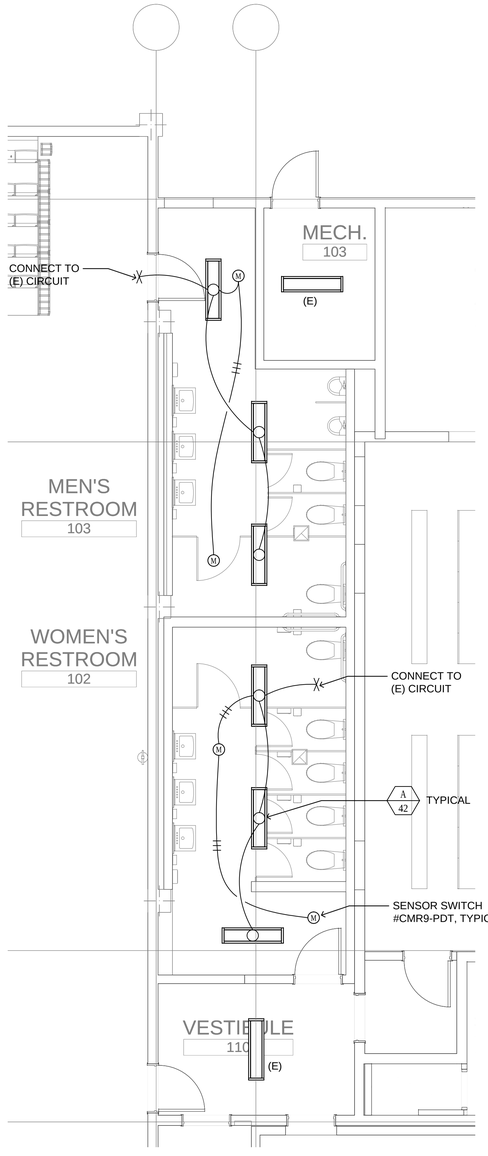
ENLARGED ELECTRICAL FLOOR PLAN

SHEET IDENTIFICATION NUMBER

E-122

SHEETS IN SET 53

PLOT TIME 3:38 PM
PLOT DATE 3/26/2025



NOTES:

1. EXISTING FIRE ALARM DEVICES SHALL REMAIN.
2. EXISTING RECEPTACLES SHALL REMAIN.

NORTH

RESTROOM LIGHTING PLAN

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

0 1 2 4 8 16

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ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14728

JEANINE S. BERTOLACCINI, AIA
ARCHITECT C-35596

MANUEL MALDONADO JR., AIA
ARCHITECT C-36264

JAMES R. VARNER, AIA
ARCHITECT C-10963

ROBERT TROST, AIA
ARCHITECT C-14762

JOSEPH E. ZASOSKI, AIA
ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

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JOB NUMBER:
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A#: 03-124361
PTN: 63826-21

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CHECKED BY:
G.A.

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JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13303
627 OLIVE STREET
SANTA BARBARA CA 93101
(805) 569-9210
FAX (805) 569-2405
email : maloney@jmpe.net
www.jmpe.net
24135

PROFESSIONAL ENGINEER
JAMES M. MALONEY
E13303
EXP. 06/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE

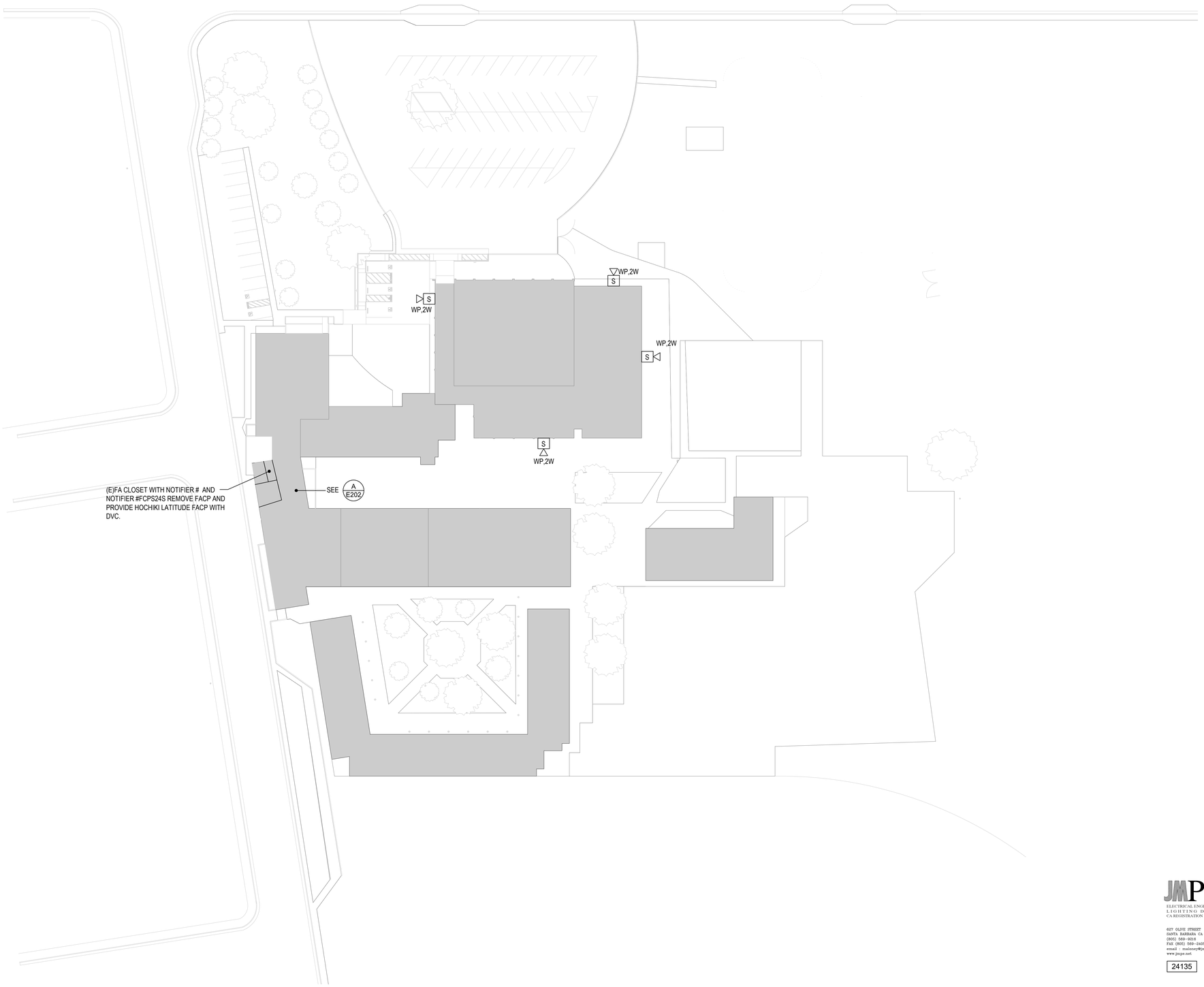
RESTROOM LIGHTING PLAN

SHEET IDENTIFICATION NUMBER

E-123

SHEETS IN SET 53

PLOT DATE: 3/27/25
PLOTTED BY: ASHLEY
PLOT SIZE: 24"x36"



FIRE ALARM SITE PLAN

SCALE : 1/32" = 1'-0"

PLOT DATE: 3:37PM
PLOT TIME: 3/27/2025

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ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5258
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA
ARCHITECT C-35596
MANUEL MALDONADO JR., AIA
ARCHITECT C-36234
JAMES R. VARNER, AIA
ARCHITECT C-10963
ROBERT TROST, AIA
ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA
ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

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TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
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JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
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A.S.

CHECKED BY:
G.A.

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JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083

627 OLIVE STREET
SANTA BARBARA CA 93101
(805) 569-9218
FAX (805) 569-2405
email : maloney@jmpe.net
www.jmpe.net

24135

REGISTERED PROFESSIONAL ENGINEER
JAMES M. MALONEY
No. E013083
EXP. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

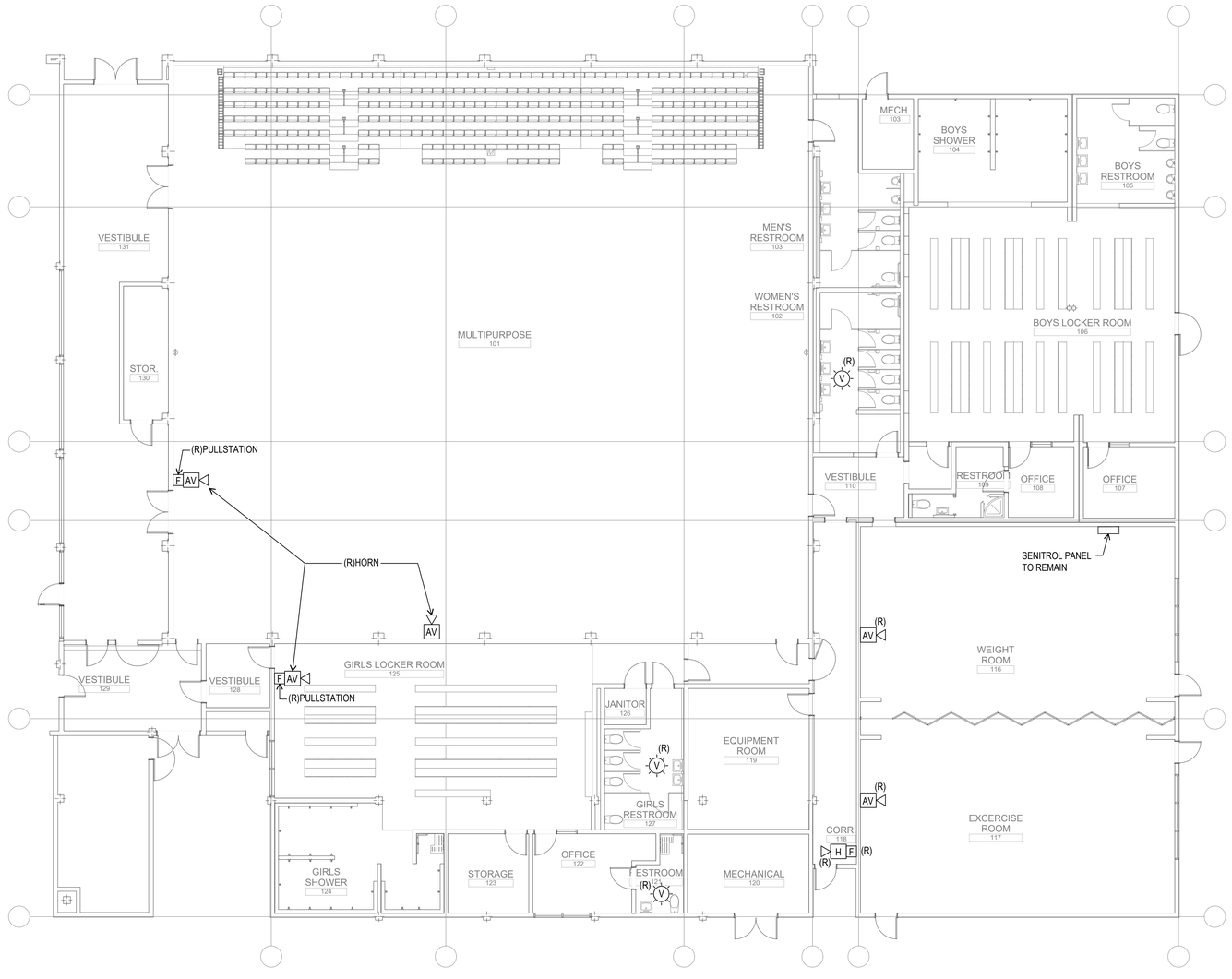
SHEET TITLE

FIRE ALARM SITE PLAN

SHEET IDENTIFICATION NUMBER

E-200

SHEETS IN SET 53



EXISTING FIRE ALARM FLOOR PLAN

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

PLOT TIME 3:37PM
PLOT DATE 3/27/25

IDENTIFICATION STAMP
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ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14728

JEANINE S. BERTOLACCINI, AIA
ARCHITECT C-35596

MANUEL MALDONADO JR., AIA
ARCHITECT C-36264

JAMES R. VARNER, AIA
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ARCHITECT C-14762

JOSEPH E. ZASOSKI, AIA
ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
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JOB NUMBER:
2324

A#: 03-124361
PTN: 63626-21

CAD DRAWING FILE:
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DRAWN BY:
A.S.

CHECKED BY:
G.A.

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JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
627 OLIVE STREET
SANTA BARBARA, CA 93101
(805) 569-9216
FAX (805) 569-2405
email : maloney@jmpe.net
www.jmpe.net
24135

REGISTERED PROFESSIONAL ENGINEER
ERIC J. MALONEY
No. E013083
EXP. 09/30/2026
ELECTRICAL
STATE OF CALIFORNIA

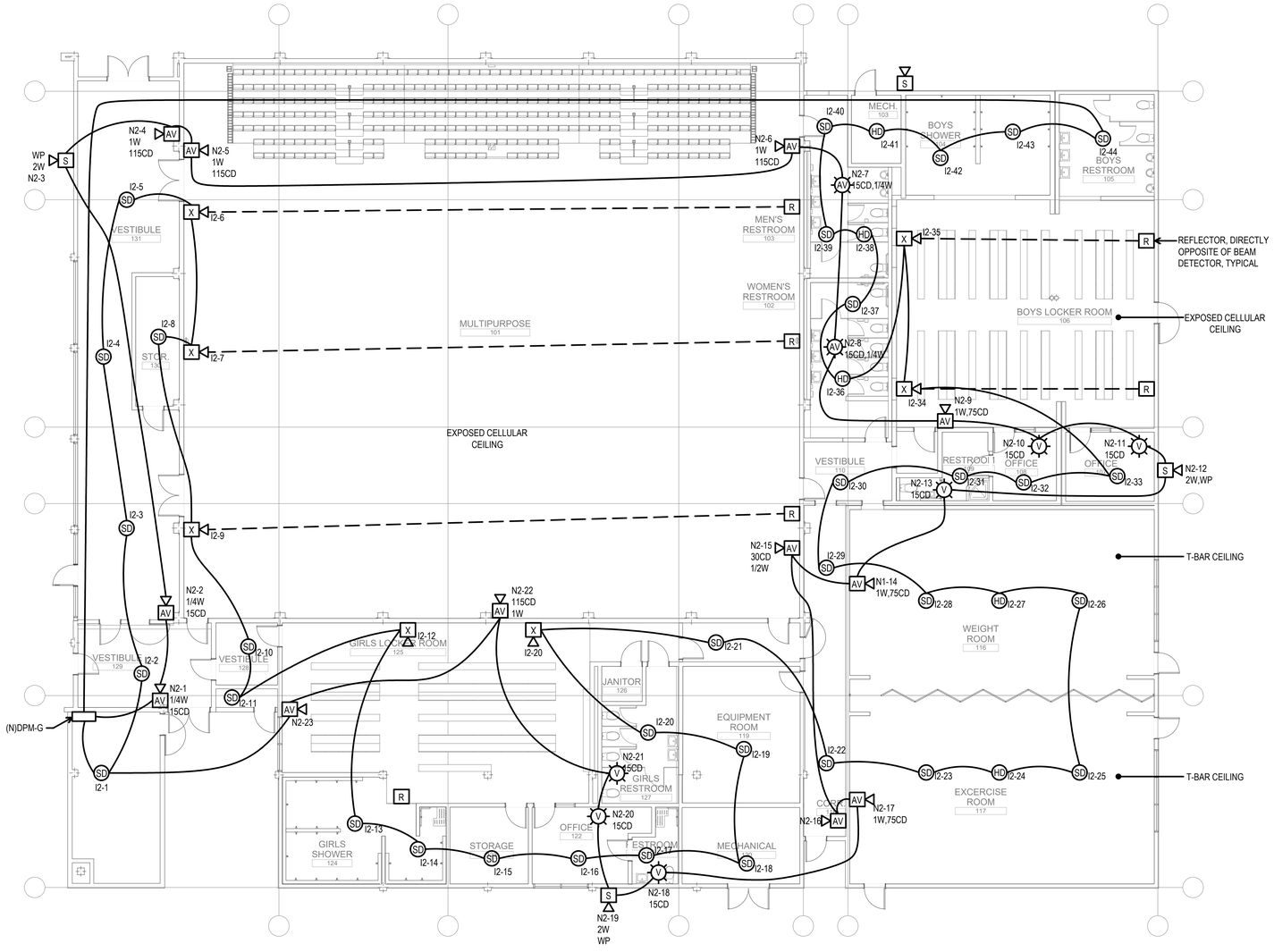
SHEET TITLE

EXISTING FIRE ALARM PLAN

SHEET IDENTIFICATION NUMBER

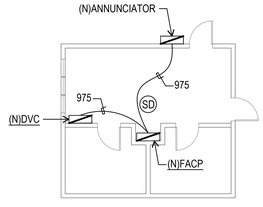
E-201

SHEETS IN SET 53



FIRE ALARM FLOOR PLAN

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



MAIN OFFICE ENLARGED FIRE ALARM PLAN

SCALE :

A
E202

PLOT TIME: 3:37PM
PLOT DATE: 3/27/25
PLOTTED BY: GA

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ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA
ARCHITECT C-35596
MANUEL MALDONADO JR., AIA
ARCHITECT C-36264
JAMES R. VARNER, AIA
ARCHITECT C-10963
ROBERT TROST, AIA
ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA
ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

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TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
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JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
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A.S.

CHECKED BY:
G.A.

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JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
627 OLIVE STREET
SANTA BARBARA CA 93101
(805) 569-0210
FAX (805) 569-2a05
email - malcom@jmpe.net
www.jmpe.net
24135

LICENSED PROFESSIONAL ENGINEER
MALCOLM T. RICKARD
No. E013083
EXP. 09/30/2025
STATE OF CALIFORNIA

SHEET TITLE

FIRE ALARM FLOOR PLAN

SHEET IDENTIFICATION NUMBER

E-202

SHEETS IN SET 53

SECTION 26 00 00 - ELECTRICAL

PART 1 _ GENERAL

1.1 IDENTIFICATION OF EQUIPMENT

A. DISTRIBUTION PANELBOARDS: IDENTIFICATION SHALL BE WITH 1" X 4" LAMINATED, WHITE ON BLACK, MICARTA NAMEPLATES ON EACH MAJOR COMPONENT, EACH WITH NAME AND/OR NUMBER OF UNIT AND OTHER PERTINENT DATA AS REQUIRED. EMERGENCY POWER DISTRIBUTION PANELS SHALL BE IDENTIFIED WITH WHITE ON RED MICARTA NAMEPLATES. LETTERS SHALL BE NO LESS THAN 3/8" HIGH.

B. CIRCUIT BREAKERS SHALL BE IDENTIFIED BY NUMBER AND NAME WITH 3/4" X 1-1/2" LAMINATED MICARTA NAMEPLATES WITH 3/16" HIGH LETTERS MOUNTED ADJACENT TO CIRCUIT BREAKER OR SWITCH.

C. MISCELLANEOUS EQUIPMENT (ELECTRICAL), SUCH AS INDIVIDUALLY MOUNTED SAFETY SWITCHES, STARTERS, STEP-DOWN TRANSFORMERS, PULL BOXES, JUNCTION BOXES, ETC., SHALL BE IDENTIFIED AS REQUIRED BY THE USE OF SUCH EQUIPMENT WITH P-TOUCH LABELS AS REQUIRED.

1.2 ARC FLASH LABELING

A. ALL PANELS, CIRCUIT BREAKER ENCLOSURES, SWITCHBOARDS AND MOTOR CONTROL CENTERS SHALL BE LABELED WITH ARC FLASH WARNING STICKERS.

B THESE LABELS SHALL CONTAIN THE FOLLOWING:

1. ARC FLASH BOUNDARY
2. MINIMUM ARC RATING
3. PERSONAL PROTECTIVE EQUIPMENT LEVEL, PPE
4. SHOCK HAZARD LEVEL
5. FAULT CURRENT

1.3 MOUNTING

A. PROVIDE MATERIALS AND ACCESSORIES NECESSARY TO PROPERLY MOUNT AND SECURE EQUIPMENT FURNISHED AND/OR INSTALLED UNDER THE ELECTRICAL WORK. THIS INCLUDES BUT IS NOT LIMITED TO SUCH ITEMS AS CONDUIT, OUTLETS, JUNCTION BOXES, SWITCHES, RELAYS, DISCONNECT SWITCHES, LIGHTING FIXTURES, CABINETS, AND TRANSFORMERS.

PART 2 _ PRODUCTS AND EXECUTION

2.1 CONDUIT

A. RIGID STEEL CONDUIT:

1. RIGID STEEL CONDUIT SHALL HAVE ZINC COATED EXTERIOR, ZINC OR ENAMEL INTERIOR, STANDARD WEIGHT, ZINC COATED COUPLINGS, LOCKNUTS AND BUSHINGS AND SHALL BEAR THE U.L. LABEL. RIGID CONDUIT SHALL NOT BE INSTALLED UNDERGROUND.
2. USE RIGID CONDUIT ONLY FOR EXPOSED EXTERIOR CONDUIT RUNS, WHEREVER SUBJECT TO PHYSICAL DAMAGE, OR WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS OR REQUIRED BY A SERVING UTILITY.
3. INTERMEDIATE METALLIC CONDUIT (I.M.C.) MAY BE USED IN LIEU OF RIGID STEEL CONDUIT.
4. USE LIQUID_TIGHT FLEXIBLE CONDUIT IN LIEU OF FLEXIBLE CONDUIT FOR WET, DAMP, OR OUTDOOR AREAS OR WHERE WEATHERPROOF FLEXIBLE CONDUIT IS CALLED FOR ON THE DRAWINGS OR BY CODE.

B. PLASTIC CONDUIT:

1. PLASTIC CONDUIT SHALL BE RIGID POLYVINYL CHLORIDE (PVC) UNDERWRITER'S APPROVAL, SCHEDULE 40. CONNECTIONS AND FITTINGS SHALL BE "OUTSIDE" TYPE ASSEMBLED IN ACCORDANCE WITH THE RECOMMENDED METHODS OF THE MANUFACTURER.
2. UNDERGROUND PVC CONDUIT SHALL BE BURIED A MINIMUM OF 24 INCHES BELOW GRADE. WHERE MORE THAN TWO CONDUITS ARE INSTALLED ADJACENTLY UNDERGROUND, USE FACTORY MADE CONDUIT SPACERS.
3. PVC CONDUIT SHALL BE USED FOR UNDERGROUND CONDUIT RUNS IN LIEU OF WRAPPED RIGID CONDUIT EXCEPT AS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY THE SERVING UTILITY.
4. PROVIDE A CODE SIZE GROUND CONDUCTOR IN EACH CONDUIT.
5. ONLY BRAIDED POLYETHYLENE OR SIMILAR PULL ROPE SHALL BE USED.

C. INSTALLATION OF CONDUIT:

1. UNDERGROUND CONDUIT.

a. KEEP INTERIOR OF CONDUIT CLEAN AND CLEAR. CLEAN UNDERGROUND CONDUITS BY PULLING A MANDREL THROUGH CONDUIT RUN FOLLOWED WITH A SWAB BEFORE PULLING WIRE.

b. REROUTE CONDUIT FROM LOCATIONS SHOWN ON THE DRAWINGS WHERE IT IS NECESSARY TO CLEAR OBSTRUCTIONS.

c. PROVIDE JUNCTION OR PULL BOXES WHERE REQUIRED FOR PULLING CONDUCTORS DUE TO EXCESSIVE NUMBER OF BENDS OR LENGTH OF CONDUIT RUNS.

d. BURY UNDERGROUND CONDUIT, EXCEPT THOSE UNDER BUILDINGS, A MINIMUM OF 24 INCHES BELOW FINISHED GRADE. CONDUITS UNDER ROADWAYS SHALL BE A MINIMUM OF 36 INCHES BELOW FINISHED GRADE. CONDUIT RUNS 3/4 INCH AND SMALLER IN SLABS SHALL BE LOCATED ABOVE VAPOR BARRIERS. BURY CONDUIT RUNS LARGER THAN 3/4 INCH TO A MINIMUM DEPTH OF 12 INCHES BELOW FLOOR SLABS.

e. STANDARD FACTORY ELLS SHALL NOT BE USED IN UNDERGROUND SERVICE CONDUITS OR OTHER LONG UNDERGROUND RUNS. FIELD BENDS SHALL NOT BE FLATTENED OR KINKED AND SHALL NOT MATERIALLY REDUCE THE INTERNAL DIAMETER OF THE CONDUIT. BENDS IN LONG UNDERGROUND RUNS SHALL BE MADE IN LONG SWEEPING BENDS. DO NOT BEND AT COUPLINGS. APPROVED CONDUIT BENDING METHODS SHALL BE USED.

f. ALL CONDUIT RUNS SHALL HAVE A CODE SIZE INSULATED GROUNDING CONDUCTOR.

g. PROPERLY SEPARATE TWO OR MORE CONDUITS INSTALLED UNDERGROUND IN A COMMON CONCRETE ENVELOPE WITH APPROVED FACTORY MADE CONDUIT SPACERS.

h. LOCATE CONDUIT STUB_OUTS DIMENSIONALLY FROM BUILDING OR CURB LINES ON RECORD DRAWINGS.

i. PULL WIRES SHALL BE INSTALLED IN EMPTY CONDUITS INCLUDING TELEPHONE CONDUITS AND STUB_OUTS, NO. 12 AWG, TYPE "THWN" INSULATED COPPER WIRE OR 1/8-INCH POLYETHYLENE ROPE SHALL BE USED.

2. EXPOSED/CONCEALED CONDUIT:

a. PROVIDE SECURE MOUNTING FACILITIES FOR CONDUITS. WIRE OR PLUMBERS TAPE SHALL NOT BE USED FOR HANGING CONDUIT. STRAP SHALL BE FACTORY MADE OF THE ONE HOLE MALLEABLE IRON OR TWO HOLE GALVANIZED CLAMP TYPE.

b. PROVIDE EXPANSION COUPLINGS WHEREVER CONDUITS CROSS EXPANSION JOINTS.

c. RUN CONDUIT AT RIGHT ANGLES OR PARALLEL TO STRUCTURAL MEMBERS, WALLS, FLOORS AND CEILINGS. WHERE SEVERAL CONDUITS ARE RUN TOGETHER OR SUSPENDED, THEY SHALL BE HUNG ON UNISTRUT TRAPEZES WITH MINIMUM 3/8-INCH ROD HANGERS.

d. CUT ENDS OF CONDUIT SQUARE AND REAM TO REMOVE BURRS OR SHARP EDGES. TERMINATE CONDUITS PROPERLY WITH BUSHINGS, LOCKNUTS, ETC. TERMINATE ONE (1) INCH AND LARGER CONDUITS WITH INSULATED BUSHINGS.

e. RENDER CONDUITS PROJECTING THROUGH THE ROOFING WATERTIGHT BY PROPER FLASHINGS. SECURELY FASTEN A SHEET METAL CAP AND TIGHTEN BANK OR STORM COLLAR TO THE CONDUITS. EXTEND FLASHING A MINIMUM OF SIX (6) INCHES IN ALL DIRECTIONS. COORDINATE AND INSTALL ROOF FLASHING FOR CONDUITS TO THE SATISFACTION OF THE PROJECT MANAGER.

f. ALL CONDUIT RUNS SHALL HAVE A CODE SIZE INSULATED GROUNDING CONDUCTOR.

g. PULL WIRES SHALL BE INSTALLED IN EMPTY CONDUITS INCLUDING TELEPHONE CONDUITS AND STUB_OUTS, NO. 12 AWG, TYPE "THWN" INSULATED COPPER WIRE OR 1/8-INCH POLYETHYLENE ROPE SHALL BE USED.

h. FLEXIBLE CONDUIT CONNECTIONS SHALL COMPLY WITH NEC SECTION 350-22.

2.2 WIRE AND CABLE

A. 600 VOLT CONDUCTORS:

1. CONDUCTORS SHALL BE COPPER AND DELIVERED TO THE SITE IN THEIR ORIGINAL, UNBROKEN PACKAGES PLAINLY MARKED OR TAGGED WITH U.L. LABEL, SIZE, KIND, INSULATION, NAME OF MANUFACTURER AND TRADE NAME OF THE WIRE.
2. TYPE "THWN", 600 VOLT INSULATION FOR DAMP OR WET LOCATIONS OR ON BOILERS AND FURNACES AND THEIR CONTROLS.
3. TYPE "THHN" 600 VOLT INSULATION SHALL BE USED IN OTHER LOCATIONS UNLESS NOTED.
4. MINIMUM SIZE CONDUCTOR SHALL BE #12.
5. CONDUCTORS SHALL BE STRANDED.
6. GROUND CONDUCTORS SHALL BE BARE COPPER OR HAVE GREEN INSULATION.

B. INSTALLATION:

1. CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OR JUNCTION BOXES AND NO SPLICES SHALL BE MADE EXCEPT IN OUTLET BOXES, PULL BOXES, PANELBOARD GUTTERS OR HANDHOLES.
2. JOINTS, SPLICES AND TAPS NO. L0 OR SMALLER (INCLUDING FIXTURE PIGTAILS) SHALL BE CONNECTED WITH "FLOATING SPRING" TYPE CONNECTORS. NO. 8 AND LARGER SHALL BE CONNECTED WITH SOLDERLESS CONNECTORS OF 100% ELECTROLYTIC COPPER. SPLIT_BOLT CONNECTORS ARE NOT ACCEPTABLE.
3. TIGHTEN PRESSURE TYPE LUGS ON PANELS AND EQUIPMENT, AND THEN RETIGHTEN 24 HOURS OR MORE LATER AFTER ENERGIZING. PROVIDE WRITTEN REPORT OF TORQUE VALUES ON LUGS.
4. OIL OR GREASE SHALL NOT BE USED WHEN PULLING CONDUCTORS. USE U.L. APPROVED CABLE LUBRICATION ONLY.
5. LACE OR TRAIN CONDUCTORS NEATLY IN PANELS, CABINETS AND EQUIPMENT. USE PLASTIC WIRE TIES TO ROUTE CONDUCTORS AT EDGE OF ENCLOSURE AWAY FROM OVERCURRENT DEVICES.
6. BRANCH CIRCUITS SHALL BE COLOR CODED IN COMPLIANCE WITH SECTION 210_5 OF THE CALIFORNIA ELECTRICAL CODE. COLORED TAPE IS NOT ACCEPTABLE.
7. ALL WIRING, BOTH LINE AND LOW VOLTAGE, SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED.

END OF SECTION 26 00 00

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280
Bakersfield, CA 93309
www.ordizmelby.com
o: (661) 832-5268
f: (661) 832-4291

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36204
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
627 OLIVE STREET
SANTA BARBARA CA 93101
(805) 569-9210
FAX (805) 569-2455
email : mailroom@jmpe.net
www.jmpe.net
24135

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MALONEY
No. E013083
EXP. 06/30/2027
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE

ELECTRICAL SPECIFICATIONS

SHEET IDENTIFICATION NUMBER

E-300

SHEETS IN SET 53

SECTION 28 31 11 - FIRE DETECTION AND ALARM SYSTEM

PART 1 - GENERAL

1.1 BASIC SYSTEM FUNCTIONAL OPERATION

A. WHEN A FIRE ALARM CONDITION IS DETECTED AND REPORTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:

1. THE SYSTEM ALARM LED ON THE SYSTEM DISPLAY SHALL FLASH.
2. A LOCAL PIEZO ELECTRIC SIGNAL IN THE CONTROL PANEL SHALL SOUND.
3. A BACKLIT LCD DISPLAY SHALL INDICATE ALL INFORMATION ASSOCIATED WITH THE FIRE ALARM CONDITION, INCLUDING THE TYPE OF ALARM POINT AND ITS LOCATION WITHIN THE PROTECTED PREMISES.
4. PRINTING AND HISTORY STORAGE EQUIPMENT SHALL LOG THE INFORMATION ASSOCIATED EACH NEW FIRE ALARM CONTROL PANEL CONDITION, ALONG WITH TIME AND DATE OF OCCURRENCE.
5. ALL SYSTEM OUTPUT PROGRAMS ASSIGNED VIA CONTROL-BY-EVENT INTERLOCK PROGRAMMING TO BE ACTIVATED BY THE PARTICULAR POINT IN ALARM SHALL BE EXECUTED, AND THE ASSOCIATED SYSTEM OUTPUTS (NOTIFICATION APPLIANCES AND/OR RELAYS) SHALL BE ACTIVATED.

PART 2 - PRODUCTS

2.1 EQUIPMENT AND MATERIAL, GENERAL

A. ALL EQUIPMENT AND COMPONENTS SHALL BE NEW, HOCHIKI CURRENT MODELS, THE MATERIALS, APPLIANCES, EQUIPMENT AND DEVICES SHALL BE TESTED AND LISTED BY A NATIONALLY RECOGNIZED APPROVALS AGENCY FOR USE AS PART OF A PROTECTIVE SIGNALING SYSTEM, MEETING THE NATIONAL FIRE ALARM CODE.

B. ALL EQUIPMENT AND COMPONENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH NOTIFIERS' RECOMMENDATIONS. CONSULT THE MANUFACTURER'S INSTALLATION MANUALS FOR ALL WIRING DIAGRAMS, SCHEMATICS, PHYSICAL EQUIPMENT SIZES, ETC., BEFORE BEGINNING SYSTEM INSTALLATION.

C. ALL EQUIPMENT SHALL BE ATTACHED TO WALLS AND CEILING/FLOOR ASSEMBLIES AND SHALL BE HELD FIRMLY IN PLACE (E.G., DETECTORS SHALL NOT BE SUPPORTED SOLELY BY SUSPENDED CEILINGS). FASTENERS AND SUPPORTS SHALL BE ADEQUATE TO SUPPORT THE REQUIRED LOAD.

D. 2.2 MAIN FIRE ALARM CONTROL PANEL

E. MAIN FACP SHALL BE A HOCHIKI LATITUDE AND SHALL CONTAIN A MICROPROCESSOR BASED CENTRAL PROCESSING UNIT (CPU) AND POWER SUPPLY IN AN ECONOMICAL SPACE SAVING SINGLE BOARD DESIGN. THE CPU SHALL COMMUNICATE WITH AND CONTROL THE FOLLOWING TYPES OF EQUIPMENT USED TO MAKE UP THE SYSTEM: INTELLIGENT ADDRESSABLE SMOKE AND THERMAL (HEAT) DETECTORS, ADDRESSABLE MODULES, PRINTER, ANNUNCIATORS, AND OTHER SYSTEM CONTROLLED DEVICES.

F. OPERATOR CONTROL:

1. ACKNOWLEDGE SWITCH:
   a. ACTIVATION OF THE CONTROL PANEL ACKNOWLEDGE SWITCH IN RESPONSE TO NEW ALARMS AND/OR TROUBLES SHALL SILENCE THE LOCAL PANEL PIEZO ELECTRIC SIGNAL AND CHANGE THE ALARM AND TROUBLE LEDS FROM FLASHING MODE TO STEADY-ON MODE. IF MULTIPLE ALARM OR TROUBLE CONDITIONS EXIST, DEPRESSION OF THIS SWITCH SHALL ADVANCE THE LCD DISPLAY TO THE NEXT ALARM OR TROUBLE CONDITION.
   b. DEPRESSION OF THE ACKNOWLEDGE SWITCH SHALL ALSO SILENCE ALL REMOTE ANNUNCIATOR PIEZO SOUNDERS.
2. ALARM SILENCE SWITCH: ACTIVATION OF THE ALARM SILENCE SWITCH SHALL CAUSE ALL PROGRAMMED ALARM NOTIFICATION APPLIANCES AND RELAYS TO RETURN TO THE NORMAL CONDITION AFTER AN ALARM CONDITION. THE SELECTION OF NOTIFICATION CIRCUITS AND RELAYS THAT ARE SILENCEABLE BY THIS SWITCH SHALL BE FULLY FIELD PROGRAMMABLE WITHIN THE CONFINES OF ALL APPLICABLE STANDARDS. THE FACP SOFTWARE SHALL INCLUDE SILENCE INHIBIT AND AUTO-SILENCE TIMERS.
3. ALARM ACTIVATE (DRILL) SWITCH: THE ALARM ACTIVATE SWITCH SHALL ACTIVATE ALL NOTIFICATION APPLIANCE CIRCUITS. THE DRILL FUNCTION SHALL LATCH UNTIL THE PANEL IS SILENCED OR RESET.
4. SYSTEM RESET SWITCH: ACTIVATION OF THE SYSTEM RESET SWITCH SHALL CAUSE ALL ELECTRONICALLY-LATCHED INITIATING DEVICES, APPLIANCES OR SOFTWARE ZONES, AS WELL AS ALL ASSOCIATED OUTPUT DEVICES AND CIRCUITS, TO RETURN TO THEIR NORMAL CONDITION.
5. LAMP TEST: THE LAMP TEST SWITCH SHALL ACTIVATE ALL LOCAL SYSTEM LEDS, LIGHT EACH SEGMENT OF THE LIQUID CRYSTAL DISPLAY AND DISPLAY THE PANEL SOFTWARE REVISION FOR SERVICE PERSONAL.

C. SYSTEM CAPACITY AND GENERAL OPERATION

1. THE CONTROL PANEL OR EACH NETWORK NODE SHALL PROVIDE, OR BE CAPABLE OF EXPANSION TO 636 INTELLIGENT/ADDRESSABLE DEVICES.
2. THE CONTROL PANEL OR EACH NETWORK NODE SHALL INCLUDE FORM-C ALARM, TROUBLE, SUPERVISORY, AND SECURITY RELAYS RATED AT A MINIMUM OF 2.0 AMPS @ 30 VDC.
3. IT SHALL ALSO INCLUDE FOUR CLASS B (NFPA STYLE Y) OR CLASS A (NFPA STYLE Z) PROGRAMMABLE NOTIFICATION APPLIANCE CIRCUITS.
4. THE NOTIFICATION APPLIANCE CIRCUITS SHALL BE PROGRAMMABLE TO SYNCRONIZE WITH SYSTEM SENSOR, GENTEX AND WHEELOCK NOTIFICATION APPLIANCES.
5. THE SYSTEM SHALL INCLUDE A FULL FEATURED OPERATOR INTERFACE CONTROL AND ANNUNCIATION PANEL THAT SHALL INCLUDE A BACKLIT LIQUID CRYSTAL DISPLAY (LCD), INDIVIDUAL COLOR CODED SYSTEM STATUS LEDS, AND AN ALPHANUMERIC KEYPAD WITH EASY TOUCH RUBBER KEYS FOR THE FIELD PROGRAMMING AND CONTROL OF THE FIRE ALARM SYSTEM.
6. THE SYSTEM SHALL BE PROGRAMMABLE, CONFIGURABLE, AND EXPANDABLE IN THE FIELD WITHOUT THE NEED FOR SPECIAL TOOLS, PROM PROGRAMMERS OR PC BASED PROGRAMMERS. IT SHALL NOT REQUIRE REPLACEMENT OF MEMORY ICS TO FACILITATE PROGRAMMING CHANGES.
7. THE SYSTEM SHALL ALLOW THE PROGRAMMING OF ANY INPUT TO ACTIVATE ANY OUTPUT OR GROUP OF OUTPUTS. SYSTEMS THAT HAVE LIMITED PROGRAMMING (SUCH AS GENERAL ALARM), HAVE COMPLICATED PROGRAMMING (SUCH AS A DIODE MATRIX), OR REQUIRE A LAPTOP PERSONAL COMPUTER ARE NOT CONSIDERED SUITABLE SUBSTITUTES.

   THE FACP SHALL SUPPORT UP TO 20 LOGIC EQUATIONS, INCLUDING "AND," "OR," AND "NOT," OR TIME DELAY EQUATIONS TO BE USED FOR ADVANCED PROGRAMMING. LOGIC EQUATIONS SHALL REQUIRE THE USE OF A PC WITH A SOFTWARE UTILITY DESIGNED FOR PROGRAMMING.
8. THE FACP OR EACH NETWORK NODE SHALL PROVIDE THE FOLLOWING FEATURES:
   a. DRIFT COMPENSATION TO EXTEND DETECTOR ACCURACY OVER LIFE. DRIFT COMPENSATION SHALL ALSO INCLUDE A SMOOTHING FEATURE, ALLOWING TRANSIENT NOISE SIGNALS TO BE FILTERED OUT.
   b. DETECTOR SENSITIVITY TEST, MEETING REQUIREMENTS OF NFPA 1-2018, CHAPTER 7.
   c. MAINTENANCE ALERT, WITH TWO LEVELS (MAINTENANCE ALERT/MAINTENANCE URGENT), TO WARN OF EXCESSIVE SMOKE DETECTOR DIRT OR DUST ACCUMULATION.
   d. NINE SENSITIVITY LEVELS FOR ALARM, SELECTED BY DETECTOR. THE ALARM LEVEL RANGE SHALL BE .5 TO 2.35 PERCENT PER FOOT FOR PHOTOELECTRIC DETECTORS AND 0.5 TO 2.5 PERCENT PER FOOT FOR IONIZATION DETECTORS. THE SYSTEM SHALL ALSO SUPPORT SENSITIVE ADVANCED DETECTION LASER DETECTORS WITH AN ALARM LEVEL RANGE OF .03 PERCENT PER FOOT TO 1.0 PERCENT PER FOOT. THE SYSTEM SHALL ALSO INCLUDE UP TO NINE LEVELS OF PREALARM, SELECTED BY DETECTOR, TO INDICATE IMPENDING ALARMS TO MAINTENANCE PERSONNEL.
   e. THE ABILITY TO DISPLAY OR PRINT SYSTEM REPORTS.
   f. ALARM VERIFICATION, WITH COUNTERS AND A TROUBLE INDICATION TO ALERT MAINTENANCE PERSONNEL WHEN A DETECTOR ENTERS VERIFICATION 20 TIMES.
   g. PAS PRESIGNAL, MEETING NFPA 1-2018 REQUIREMENTS.
   h. RAPID MANUAL STATION REPORTING (UNDER 3 SECONDS) AND SHALL MEET NFPA 72 CHAPTER 1 REQUIREMENTS FOR ACTIVATION OF NOTIFICATION CIRCUITS WITHIN 10 SECONDS OF INITIATING DEVICE ACTIVATION.
   i. PERIODIC DETECTOR TEST, CONDUCTED AUTOMATICALLY BY THE SOFTWARE.
   j. SELF OPTIMIZING PRE-ALARM FOR ADVANCED FIRE WARNING, WHICH ALLOWS EACH DETECTOR TO LEARN ITS PARTICULAR ENVIRONMENT AND SET ITS PREALARM LEVEL TO JUST ABOVE NORMAL PEAKS.
   k. CROSS ZONING WITH THE CAPABILITY OF COUNTING: TWO DETECTORS IN ALARM, TWO SOFTWARE ZONES IN ALARM, OR ONE SMOKE DETECTOR AND ONE THERMAL DETECTOR.
   l. WALK TEST, WITH A CHECK FOR TWO DETECTORS SET TO SAME ADDRESS.
   m. CONTROL-BY-TIME FOR NON-FIRE OPERATIONS, WITH HOLIDAY SCHEDULES.
   n. DAY/NIGHT AUTOMATIC ADJUSTMENT OF DETECTOR SENSITIVITY.
   o. DEVICE BLINK CONTROL FOR SLEEPING AREAS.

F. SIGNALING LINE CIRCUITS (SLC):

1. EACH FACP OR FACP NETWORK NODE SHALL SUPPORT UP TO TWO SLCS. EACH SLC INTERFACE SHALL PROVIDE POWER TO AND COMMUNICATE WITH UP TO 159 INTELLIGENT DETECTORS (IONIZATION, PHOTOELECTRIC OR THERMAL) AND 159 INTELLIGENT MODULES (MONITOR OR CONTROL) FOR A LOOP CAPACITY OF 318 DEVICES. THE ADDITION OF THE OPTIONAL SECOND LOOP SHALL DOUBLE THE DEVICE CAPACITY, SUPPORTING A TOTAL OF 636 DEVICES. EACH SLC SHALL BE CAPABLE OF NFPA 1-2018 STYLE 4, STYLE 6, OR STYLE 7 (CLASS A OR B) WIRING.
2. CPU SHALL RECEIVE ANALOG INFORMATION FROM ALL INTELLIGENT DETECTORS TO BE PROCESSED TO DETERMINE WHETHER NORMAL, ALARM, PREALARM, OR TROUBLE CONDITIONS EXIST FOR EACH DETECTOR. THE SOFTWARE SHALL AUTOMATICALLY MAINTAIN THE DETECTOR'S DESIRED SENSITIVITY LEVEL BY ADJUSTING FOR THE EFFECTS OF ENVIRONMENTAL FACTORS, INCLUDING THE ACCUMULATION OF DUST IN EACH DETECTOR. THE ANALOG INFORMATION SHALL ALSO BE USED FOR AUTOMATIC DETECTOR TESTING AND FOR THE AUTOMATIC DETERMINATION OF DETECTOR MAINTENANCE REQUIREMENTS.

I. POWER SUPPLY:

1. A HIGH TECH OFF-LINE SWITCHING POWER SUPPLY SHALL BE AVAILABLE FOR THE FIRE ALARM CONTROL PANEL OR NETWORK NODE AND PROVIDE 6.0 AMPS OF AVAILABLE POWER FOR THE CONTROL PANEL AND PERIPHERAL DEVICES.
2. PROVISIONS WILL BE MADE TO ALLOW THE AUDIO-VISUAL POWER TO BE INCREASED AS REQUIRED BY ADDING MODULAR EXPANSION AUDIO-VISUAL POWER SUPPLIES.
3. POSITIVE-TEMPERATURE-COEFFICIENT (PTC) THERMISTORS, CIRCUIT BREAKERS, OR OTHER OVER-CURRENT PROTECTION SHALL BE PROVIDED ON ALL POWER OUTPUTS. THE POWER SUPPLY SHALL PROVIDE AN INTEGRAL BATTERY CHARGER FOR USE WITH BATTERIES UP TO 55 AH OR MAY BE USED WITH AN EXTERNAL BATTERY AND CHARGER SYSTEM. BATTERY ARRANGEMENT MAY BE CONFIGURED IN THE FIELD.
4. THE POWER SUPPLY SHALL CONTINUOUSLY MONITOR ALL FIELD WIRES FOR EARTH GROUND CONDITIONS, AND SHALL HAVE THE FOLLOWING LED INDICATORS:

   GROUND FAULT LED
   AC POWER FAIL LED
   NAC ON LED (4)
5. THE MAIN POWER SUPPLY SHALL OPERATE ON 120 VAC, 60 HZ, AND SHALL PROVIDE ALL NECESSARY POWER FOR THE FACP.
6. THE MAIN POWER SUPPLY SHALL PROVIDE A BATTERY CHARGER USING DUAL-RATE CHARGING TECHNIQUES FOR FAST BATTERY RECHARGE AND BE CAPABLE OF CHARGING BATTERIES UP TO 200 AH.
7. ALL CIRCUITS SHALL BE POWER-LIMITED, PER UL864 REQUIREMENTS.

2.3 SYSTEM COMPONENTS

A. STROBE LIGHTS SHALL MEET THE REQUIREMENTS OF THE ADA, UL STANDARD 1971, BE FULLY SYNCHRONIZED, AND SHALL MEET THE FOLLOWING CRITERIA:

1. THE MAXIMUM PULSE DURATION SHALL BE 2/10 OF ONE SECOND
2. STROBE INTENSITY SHALL MEET THE REQUIREMENTS OF UL 1971.
3. THE FLASH RATE SHALL MEET THE REQUIREMENTS OF UL 1971.

2.4 SYSTEM COMPONENTS - ADDRESSABLE DEVICES

A. ADDRESSABLE DEVICES - GENERAL:

1. ADDRESSABLE DEVICES SHALL USE SIMPLE TO INSTALL AND MAINTAIN DECADE, DECIMAL ADDRESS SWITCHES. DEVICES SHALL BE CAPABLE OF BEING SET TO AN ADDRESS IN A RANGE OF 001 TO 159.
2. ADDRESSABLE DEVICES, WHICH USE A BINARY-CODED ADDRESS SETTING METHOD, SUCH AS A DIP-SWITCH, ARE NOT AN ALLOWABLE SUBSTITUTE.
3. DETECTORS SHALL BE INTELLIGENT (ANALOG) AND ADDRESSABLE, AND SHALL CONNECT WITH TWO WIRES TO THE FIRE ALARM CONTROL PANEL SIGNALING LINE CIRCUITS.
4. ADDRESSABLE SMOKE AND THERMAL DETECTORS SHALL PROVIDE DUAL ALARM AND POWER/POLLING LEDS. BOTH LEDS SHALL FLASH GREEN UNDER NORMAL CONDITIONS, INDICATING THAT THE DETECTOR IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL, AND BOTH LEDS SHALL BE PLACED INTO STEADY RED ILLUMINATION BY THE CONTROL PANEL, INDICATING THAT AN ALARM CONDITION HAS BEEN DETECTED. IF REQUIRED, THE LED FLASH SHALL HAVE THE ABILITY TO BE REMOVED FROM THE SYSTEM PROGRAM. AN OUTPUT CONNECTION SHALL ALSO BE PROVIDED IN THE BASE TO CONNECT AN EXTERNAL REMOTE ALARM LED.
5. THE FIRE ALARM CONTROL PANEL SHALL PERMIT DETECTOR SENSITIVITY ADJUSTMENT THROUGH FIELD PROGRAMMING OF THE SYSTEM. THE PANEL ON A TIME-OF-DAY BASIS SHALL AUTOMATICALLY ADJUST SENSITIVITY.
6. USING SOFTWARE IN THE FACP, DETECTORS SHALL AUTOMATICALLY COMPENSATE FOR DUST ACCUMULATION AND OTHER SLOW ENVIRONMENTAL CHANGES THAT MAY AFFECT THEIR PERFORMANCE. THE DETECTORS SHALL BE LISTED BY UL AS MEETING THE CALIBRATED SENSITIVITY TEST REQUIREMENTS OF NFPA 1-2018, CHAPTER 7.
7. THE DETECTORS SHALL BE CEILING-MOUNT AND SHALL INCLUDE A SEPARATE TWIST-LOCK BASE WITH TAMPER PROOF FEATURE. BASES SHALL INCLUDE A SOUNDER BASE WITH A BUILT-IN (LOCAL) SOUNDER RATED AT 85 DBA MINIMUM, A RELAY BASE AND AN ISOLATOR BASE DESIGNED FOR STYLE 7 APPLICATIONS.
8. THE DETECTORS SHALL PROVIDE A TEST MEANS WHEREBY THEY WILL SIMULATE AN ALARM CONDITION AND REPORT THAT CONDITION TO THE CONTROL PANEL. SUCH A TEST MAY BE INITIATED AT THE DETECTOR ITSELF (BY ACTIVATING A MAGNETIC SWITCH) OR INITIATED REMOTELY ON COMMAND FROM THE CONTROL PANEL.
9. DETECTORS SHALL ALSO STORE AN INTERNAL IDENTIFYING TYPE CODE THAT THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE (ION, PHOTO, THERMAL).
10. DETECTORS WILL OPERATE IN AN ANALOG FASHION, WHERE THE DETECTOR SIMPLY MEASURES ITS DESIGNED ENVIRONMENT VARIABLE AND TRANSMITS AN ANALOG VALUE TO THE FACP BASED ON REAL-TIME MEASURED VALUES. THE FACP SOFTWARE, NOT THE DETECTOR, SHALL MAKE THE ALARM/NORMAL DECISION, THEREBY ALLOWING THE SENSITIVITY OF EACH DETECTOR TO BE SET IN THE FACP PROGRAM AND ALLOWING THE SYSTEM OPERATOR TO VIEW THE CURRENT ANALOG VALUE OF EACH DETECTOR.
11. ADDRESSABLE DEVICES SHALL STORE AN INTERNAL IDENTIFYING CODE THAT THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE.
12. A MAGNETIC TEST SWITCH SHALL BE PROVIDED TO TEST DETECTORS AND MODULES. DETECTORS SHALL REPORT AN INDICATION OF AN ANALOG VALUE REACHING 100% OF THE ALARM THRESHOLD.
13. ADDRESSABLE MODULES SHALL MOUNT IN A 4-INCH SQUARE (101.6 MM SQUARE), 2-1/8 INCH (54 MM) DEEP ELECTRICAL BOX. AN OPTIONAL SURFACE MOUNT LEXAN ENCLOSURE SHALL BE AVAILABLE.

B. ADDRESSABLE MANUAL FIRE ALARM BOX (MANUAL STATION):

1. ADDRESSABLE MANUAL FIRE ALARM BOXES SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE STATE OF THE MANUAL SWITCH AND THE ADDRESSABLE COMMUNICATION MODULE STATUS. THEY SHALL USE A KEY OPERATED TEST-RESET LOCK, AND SHALL BE DESIGNED SO THAT AFTER ACTUAL EMERGENCY OPERATION, THEY CANNOT BE RESTORED TO NORMAL USE EXCEPT BY THE USE OF A KEY.
2. ALL OPERATED STATIONS SHALL HAVE A POSITIVE, VISUAL INDICATION OF OPERATION AND UTILIZE A KEY TYPE RESET.
3. MANUAL FIRE ALARM BOXES SHALL BE CONSTRUCTED OF LEXAN WITH CLEARLY VISIBLE OPERATING INSTRUCTIONS PROVIDED ON THE COVER. THE WORD FIRE SHALL APPEAR ON THE FRONT OF THE STATIONS IN RAISED LETTERS, 1.75 INCHES (44 MM) OR LARGER.

C. INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR: THE DETECTORS SHALL USE THE PHOTOELECTRIC (LIGHT-SCATTERING) PRINCIPAL TO MEASURE SMOKE DENSITY AND SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE ANALOG LEVEL OF SMOKE DENSITY.

D. INTELLIGENT LASER PHOTO SMOKE DETECTOR:

1. THE INTELLIGENT LASER PHOTO SMOKE DETECTOR SHALL BE A SPOT TYPE DETECTOR THAT INCORPORATES AN EXTREMELY BRIGHT LASER DIODE AND AN INTEGRAL LENS THAT FOCUSES THE LIGHT BEAM TO A VERY SMALL VOLUME NEAR A RECEIVING PHOTO SENSOR. THE SCATTERING OF SMOKE PARTICLES SHALL ACTIVATE THE PHOTO SENSOR.
2. THE LASER DETECTOR SHALL HAVE CONDUCTIVE PLASTIC SO THAT DUST ACCUMULATION IS REDUCED SIGNIFICANTLY.
3. THE INTELLIGENT LASER PHOTO DETECTOR SHALL HAVE NINE SENSITIVITY LEVELS AND BE SENSITIVE TO A MINIMUM OBSCURATION OF 0.03 PERCENT PER FOOT.
4. THE LASER DETECTOR SHALL NOT REQUIRE EXPENSIVE CONDUIT, SPECIAL FITTINGS OR PVC PIPE.
5. THE INTELLIGENT LASER PHOTO DETECTOR SHALL SUPPORT STANDARD, RELAY, ISOLATOR AND SOUNDER DETECTOR BASES.
6. THE LASER PHOTO DETECTOR SHALL NOT REQUIRE OTHER CLEANING REQUIREMENTS THAN THOSE LISTED IN NFPA 72. REPLACEMENT, REFURBISHMENT OR SPECIALIZED CLEANING OF THE DETECTOR HEAD SHALL NOT BE REQUIRED.
7. THE LASER PHOTO DETECTOR SHALL INCLUDE TWO BICOLOR LEDS THAT FLASH GREEN IN NORMAL OPERATION AND TURN ON STEADY RED IN ALARM.

E. INTELLIGENT IONIZATION SMOKE DETECTOR: THE DETECTORS SHALL USE THE DUAL-CHAMBER IONIZATION PRINCIPAL TO MEASURE PRODUCTS OF COMBUSTION AND SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE ANALOG LEVEL OF PRODUCTS OF COMBUSTION.

F. INTELLIGENT THERMAL DETECTORS: THERMAL DETECTORS SHALL BE INTELLIGENT ADDRESSABLE DEVICES RATED AT 135 DEGREES FAHRENHEIT (58 DEGREES CELSIUS) AND HAVE A RATE-OF-RISE ELEMENT RATED AT 15 DEGREES F (9.4 DEGREES C) PER MINUTE. IT SHALL CONNECT VIA TWO WIRES TO THE FIRE ALARM CONTROL PANEL SIGNALING LINE CIRCUIT.

2.5 BATTERIES

A. THE BATTERY SHALL HAVE SUFFICIENT CAPACITY TO POWER THE FIRE ALARM SYSTEM FOR NOT LESS THAN TWENTY-FOUR HOURS PLUS 5 MINUTES OF ALARM UPON A NORMAL AC POWER FAILURE.

B. THE BATTERIES ARE TO BE COMPLETELY MAINTENANCE FREE. NO LIQUIDS ARE REQUIRED. FLUID LEVEL CHECKS FOR REFILLING, SPILLS, AND LEAKAGE SHALL NOT BE REQUIRED.

C. IF NECESSARY TO MEET STANDBY REQUIREMENTS, EXTERNAL BATTERY AND CHARGER SYSTEMS MAY BE USED.

2.6 SPEAKERS

GENERAL:
WHEELOCK ADVANCE OUTDOOR SPEAKERS AND SPEAKER STROBES SHALL MOUNT TO A WEATHERPROOF BACK BOX. A UNIVERSAL MOUNTING PLATE SHALL BE USED FOR MOUNTING CEILING AND WALL PRODUCTS. THE NOTIFICATION APPLIANCE CIRCUIT AND AMPLIFIER WIRING SHALL TERMINATE AT THE UNIVERSAL MOUNTING PLATE. ALSO, SPECTRALERT ADVANCE SPEAKER STROBES, WHEN USED WITH THE SYNCCIRCUIT™ MODULE ACCESSORY, SHALL BE POWERED FROM A NON-CODED NOTIFICATION APPLIANCE CIRCUIT OUTPUT AND SHALL OPERATE ON A NOMINAL 12 OR 24 VOLTS. WHEN USED WITH THE SYNCCIRCUIT™ MODULE, 12-VOLT-RATED NOTIFICATION APPLIANCE CIRCUIT OUTPUTS SHALL OPERATE BETWEEN 8.5 AND 17.5 VOLTS; 24-VOLT-RATED NOTIFICATION APPLIANCE CIRCUIT OUTPUTS SHALL OPERATE BETWEEN 16.5 AND 33 VOLTS. OUTDOOR SPECTRALERT ADVANCE PRODUCTS SHALL OPERATE BETWEEN -40°F AND 151°F FROM A REGULATED DC, OR FULL-WAVE RECTIFIED, UNFILTERED POWER SUPPLY.

SPEAKER:
SPEAKER SHALL BE A WHEELOCK ET-1010 _____ DUAL-VOLTAGE TRANSFORMER SPEAKER CAPABLE OF OPERATING AT 25.0 OR 70.7 NOMINAL VRMS. SPEAKER SHALL BE LISTED TO UNDERWRITERS LABORATORIES STANDARD S4048 FOR OUTDOOR FIRE PROTECTIVE SIGNALING SYSTEMS. SPEAKER SHALL HAVE A FREQUENCY RANGE OF 400 TO 4,000 HZ AND SHALL HAVE AN OPERATING TEMPERATURE FROM -40°F AND 150.8°F. SPEAKER SHALL HAVE POWER TAPS AND WATTAGE SETTINGS THAT ARE SELECTED BY ROTARY SWITCHES. THE SPEAKER MUST BE INSTALLED WITH ITS WEATHERPROOF BACK BOX IN ORDER TO REMAIN OUTDOOR APPROVED PER UL LISTING S4048. THE SPEAKER SHALL BE SUITABLE FOR USE IN AIR HANDLING SPACES AND WET ENVIRONMENTS.

SPEAKER STROBE COMBINATION:
THE SPEAKER STROBE SHALL BE A HOCHIKI HSS _____ LISTED TO UL 1638 AND UL 1480 AND BE APPROVED FOR FIRE PROTECTIVE SIGNALING SYSTEMS. SPEAKER SHALL BE CAPABLE OF OPERATING AT 25.0 OR 70.0 NOMINAL VRMS AND SHALL HAVE A FREQUENCY RANGE OF 400 TO 4,000 HZ. SPEAKER SHALL HAVE POWER TAPS THAT ARE SELECTED BY ROTARY SWITCH. THE STROBE SHALL CONSIST OF A XENON FLASH TUBE WITH ASSOCIATED LENS/REFLECTOR SYSTEM AND OPERATE ON EITHER 12 OR 24 VOLTS. THE STROBE SHALL ALSO FEATURE SELECTABLE CANDELA OUTPUT, PROVIDING OPTIONS FOR 15 OR 15/75 CANDELA WHEN OPERATING ON 12 VOLTS AND 15, 15/75, 30, 75, 110, 115, 135, 150, 177 OR 185 CANDELA WHEN OPERATING ON 24 VOLTS. THE STROBE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT REQUIREMENT FOR VISIBLE SIGNALING APPLIANCES, FLASHING AT 1 HZ OVER THE STROBE'S ENTIRE OPERATING VOLTAGE RANGE. THE SPEAKER STROBE MUST BE INSTALLED WITH ITS WEATHERPROOF BACK BOX IN ORDER TO REMAIN OUTDOOR APPROVED PER UL. THE SPEAKER STROBE SHALL BE SUITABLE FOR USE IN WET ENVIRONMENTS.

END OF SECTION 28 31 11

PLOT TIME: 3:37 PM
PLOT DATE: 3/26/25
PLOTTED BY: JAMES

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DATE: 03/27/2025

ordiz melby architects
a professional corporation
5500 Ming Avenue, Suite 280 o: (661) 832-5268
Bakersfield, CA 93309 f: (661) 832-4291
www.ordizmelby.com

LICENSED ARCHITECT
JEANINE S. BERTOLACCINI
C-35596
OCTOBER 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA ARCHITECT C-14728
JEANINE S. BERTOLACCINI, AIA ARCHITECT C-35596
MANUEL MALDONADO JR., AIA ARCHITECT C-36234
JAMES R. VARNER, AIA ARCHITECT C-10963
ROBERT TROST, AIA ARCHITECT C-14762
JOSEPH E. ZASOSKI, AIA ARCHITECT C-36742

BLEACHER REPLACEMENT AT TEHACHAPI EDUCATION CENTER

126 S. SNYDER AVE,
TEHACHAPI, CA 93561

FOR:

TEHACHAPI UNIFIED SCHOOL DISTRICT

MARK	DATE	DESCRIPTION
	.	

JOB NUMBER:
2324

A#: 03-124361
PTN: 63826-21

CAD DRAWING FILE:
2324-Tehachapi Education Center Bleachers-SD-AC26.pln

DRAWN BY:
A.S.

CHECKED BY:
G.A.

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083
627 OLIVE STREET
SANTA BARBARA CA 93101
(805) 569-9210
FAX (805) 569-2455
email : malcom@jmpe.net
www.jmpe.net
24135

REGISTERED PROFESSIONAL ENGINEER
MALCOLM A. MATHESON
No. E013083
EXP. 06/30/2026
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE

FIRE ALARM SPECIFICATIONS

SHEET IDENTIFICATION NUMBER

E-400

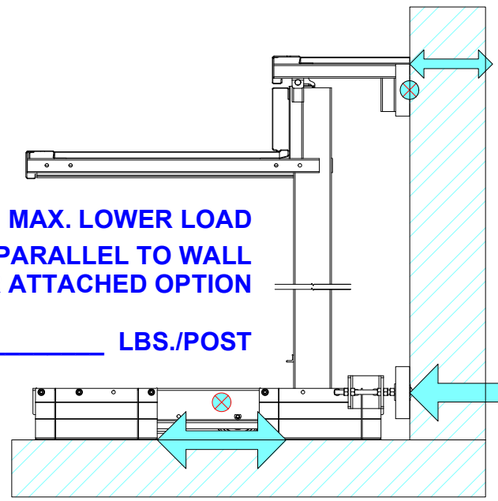
SHEETS IN SET 53

PROJECT SPECIFIC NOTES

ITEM	PROJECT VALUE
PROJECT NAME	Technical Education Center
PROJECT LOCATION	Tehachapi, CA.
IRWIN PROJECT NO.	G231623
CODE	2022 CBC
SMOKE PROTECTED?	NO
SEISMIC DESIGN CRITERIA	SEE SHEET S1
ANCHORS TO BE INPECTED (DSA-103)	
☑ UPPPER WALL ANCHORS	
☑ LOWER WALL ANCHORS	
☐ FLOOR ANCHORS	

Seismic Design Criteria Notes:

1. Design per DSA IR 16-5.16
2. Site Class to be determined by SEOR or AOR



☐ MAX. LOWER LOAD PARALLEL TO WALL FLOOR ATTACHED OPTION

_____ LBS./POST

MAX. UPPER WALL LOAD PERP. TO WALL (8/S13)

1020 LBS.

MAX. UPPER WALL LOAD PARALLEL TO WALL

250 LBS.

☒ MAX. LOWER WALL LOAD WALL ATTACHED OPTION (8/S13)

529.4 LBS./POST

☐ MAX. LOWER LOAD FLOOR ATTACHED OPTION (6 or 7/S14)

_____ LBS./POST

Designer to choose either wall or floor attachment for lower connection.

WALL LOAD DIAGRAM

INDEX OF SHEETS

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MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA
7/10/24

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DATE: 1/11/2024
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IRWIN VERSATRACT
PRE-CHECK DRAWINGS: 2022 CBC
FILE: PC-ITSC APP ID: 02-121254

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

DRAFTER: KMR DATE: 3/2/2023

DRAWING SYMBOLS LEGEND

THE SYMBOLS SHOWN BELOW ARE TYPICAL THROUGHOUT THIS SET OF DRAWINGS

X/X <======= Detail Number / Sheet Number

(X) <===== Material Number

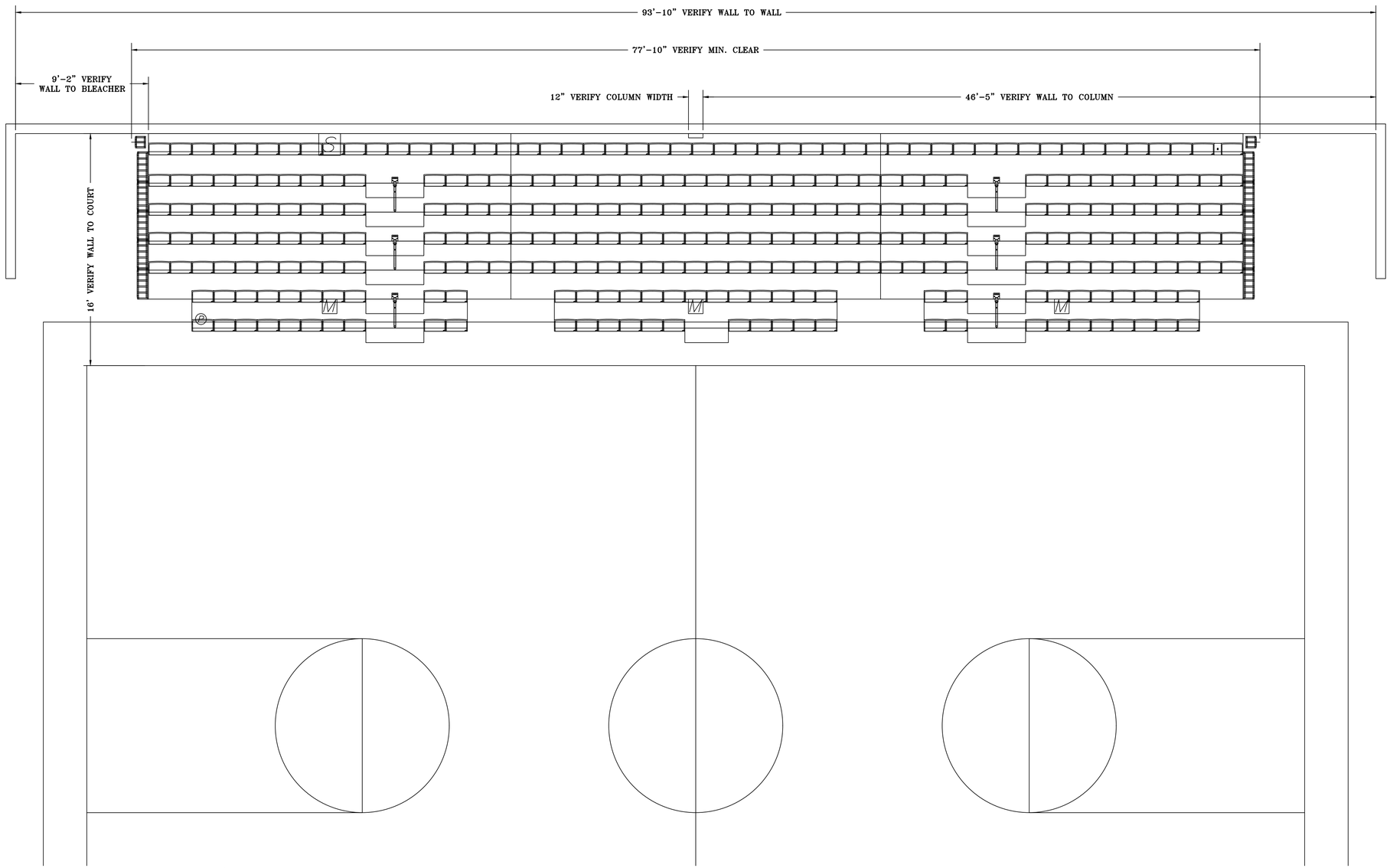
ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE (U.N.O.)

Irwin.

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

PROJECT COVER SHEET

SHEET # S0



1 BUILDING LAYOUT
Scale: 1/4"=1' | ITSC Ref

PLAN NORTH

N VERIFY

NOTES:

ALL VERIFIABLE DIMENSIONS ARE SUBJECT TO CHANGE PENDING FIELD VERIFICATION.

FLOOR SHALL BE SMOOTH AND LEVEL, WITH SLOPE NOT TO EXCEED 1/8" IN 10'-0". (ALTERNATIVELY RECOMMEND FF50/FL35)

IF WALL COLUMNS OR OTHER OBSTRUCTIONS EXIST IN PROPOSED BLEACHER AREA, VERIFY TYPE, LOCATION, WIDTH, & DEPTH.

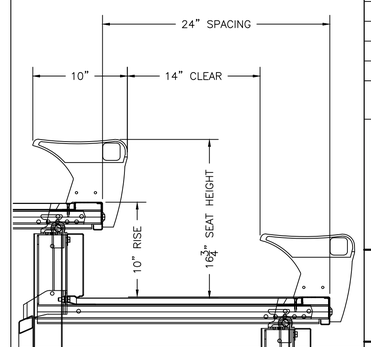
RISER HEIGHTS EXCEEDING 3/16" VARIANCE FROM ONE TO ANOTHER SHALL BE INDICATED BY A YELLOW NON-SLIP TREAD ON THE NOSE OF EACH RISE.

SEATING NUMBERING TO PRESENTED ON OVERALL SEATING MANIFEST

TRANSITION IN FLOOR SHALL BE SMOOTH AND LEVEL, FOR PROPER OPERATION OF TELESCOPIC PRODUCT.

REGISTERED PROFESSIONAL ENGINEER MICHAEL MENDON S 2377 CIVIL STRUCTURAL STATE OF CALIFORNIA
7/10/24

SEATING INFORMATION:



Chair Size	10"	12"	4/4	5/4	–	Total Seat Count
Chair Qty.	294					294

BLEACHER SEATING

	MODEL	COLOR(S)/UPHOLSTRY
Seat Plastic	10" INFINITY	VERIFY
Back Plastic	N/A	N/A

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VersaTract

DRAFTER: CS | DATE: 8-28-2023

ISC JOB #: G231623

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TEHACHAPI, CA

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DSA APPL. #: XXX
PC NUMBER: 02-118532

REV.	DATE	DESCRIPTION	SIGN OFF
0	8/28/23	MADE SHOPS CS	KMR 09/06/23

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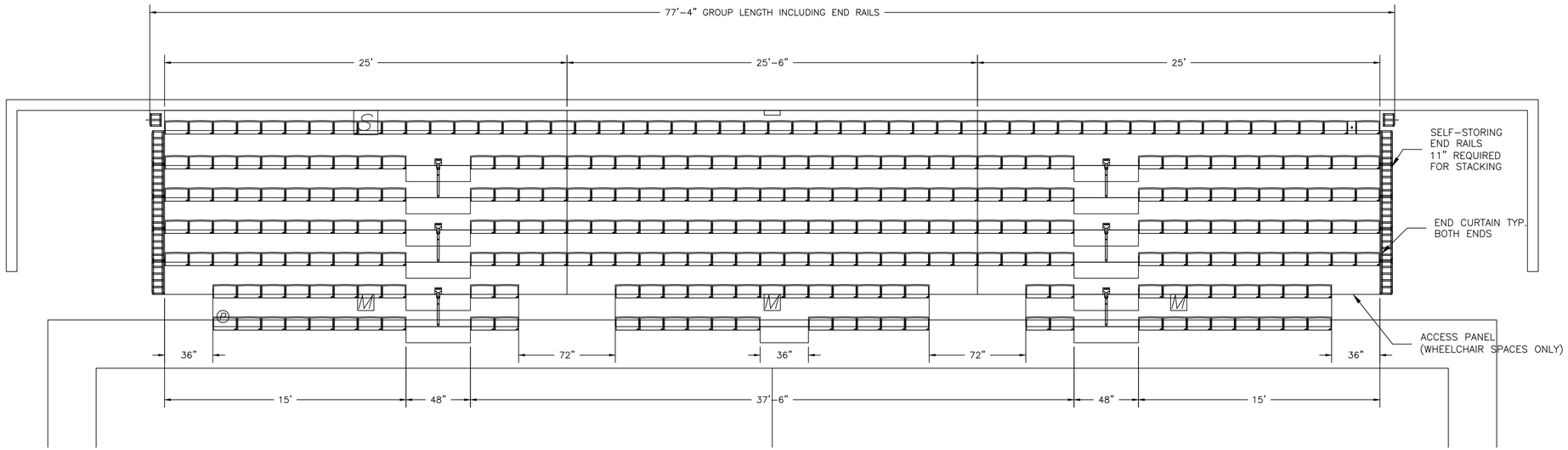
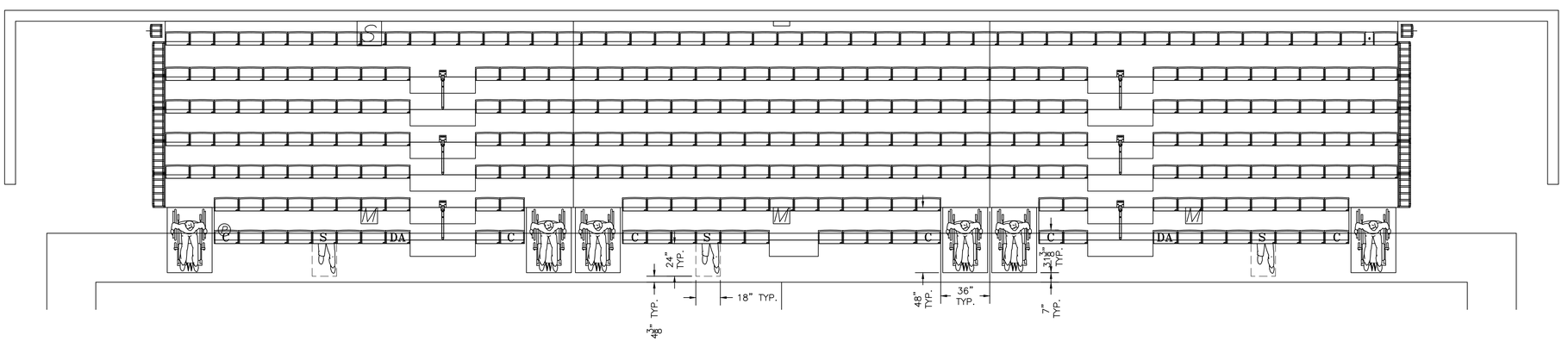
BUILDING

SHEET #
A01



TOTAL SEAT COUNT
294- GENERAL SEATING (18" BLEACHER SEATS)

1 PLAN
Scale:1/4"=1' | ITSC Ref



TOTAL SEAT COUNT
282- GENERAL SEATING (18" BLEACHER SEATS)
6-PERMANENT WHEEL CHAIR SPACES (W)
6-ISA COMPLIANT COMPANION SPACES (C)
3-SEMI-AMBULATORY SEATS (S)
3-DESIGNATED AISLE SEATS (DA)
300 TOTAL SEATING CAPACITY

1 ADA
Scale:1/4"=1' | ITSC Ref

PLAN NORTH

VERIFY

REQUIREMENTS:
VERSATRACT

75'-6" Group Length including end rails
(3 Rectangular Sections)
7 Rows
10" Rise
24" Spacing
Panelam 5/8" Decking
Standard 12 inch Deck Level Filler
Wall Attached
Pressure Treated Wall Stringers
208-230 VAC, Three Phase IDS Power
294 10" Infinity Seats (18" Wide Seats)
Tread Mounted on Telescopic
Field notch bleachers around 1 column
with additional column supports
Seat Numbers & Row Letters
2 Sets of Self Storing End Rails
(Starting At Row 2)
2-End Curtains
6-36"x24" Perm. Wheel Chair Spaces
w/Access Panel
6-ISA Compliant ADA Signs
6-ISA Compliant Companion Signs
Galvanized Nose and Rear Beam
2 Aisles 48" inches wide
Smart Rail
Standard Steel steps including Front Step
1-36" Front Step

Seating Capacity: 294+6 Permanent
Wheel Chair Spaces

REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDOZA
S 2377
STATE OF CALIFORNIA
7/10/24

MATERIALS AND FINISHES

	MATERIAL	FINISH
Decking:	T&G 5/8" Panelam	VERIFY
Riser Beam:	A653 Steel	Galvanized
Nose Beam:	A653 Steel	Galvanized
Understructure:	Steel	Black Powder Coat
Guard Rails:	A500B Steel	Black Powder Coat
Handrails:	A500B Steel	Black Powder Coat
Rail Sleeve:	N/A	N/A
Aisle Steps 1:	14 Ga Steel	Black Powder Coat
Aisle Steps 2:	N/A	N/A
Curtains:	N/A	N/A
End Panel:	N/A	N/A
Gap Closures:	N/A	N/A
Seat Type 1:	Infinity	VERIFY
Seat Type 2:	N/A	N/A

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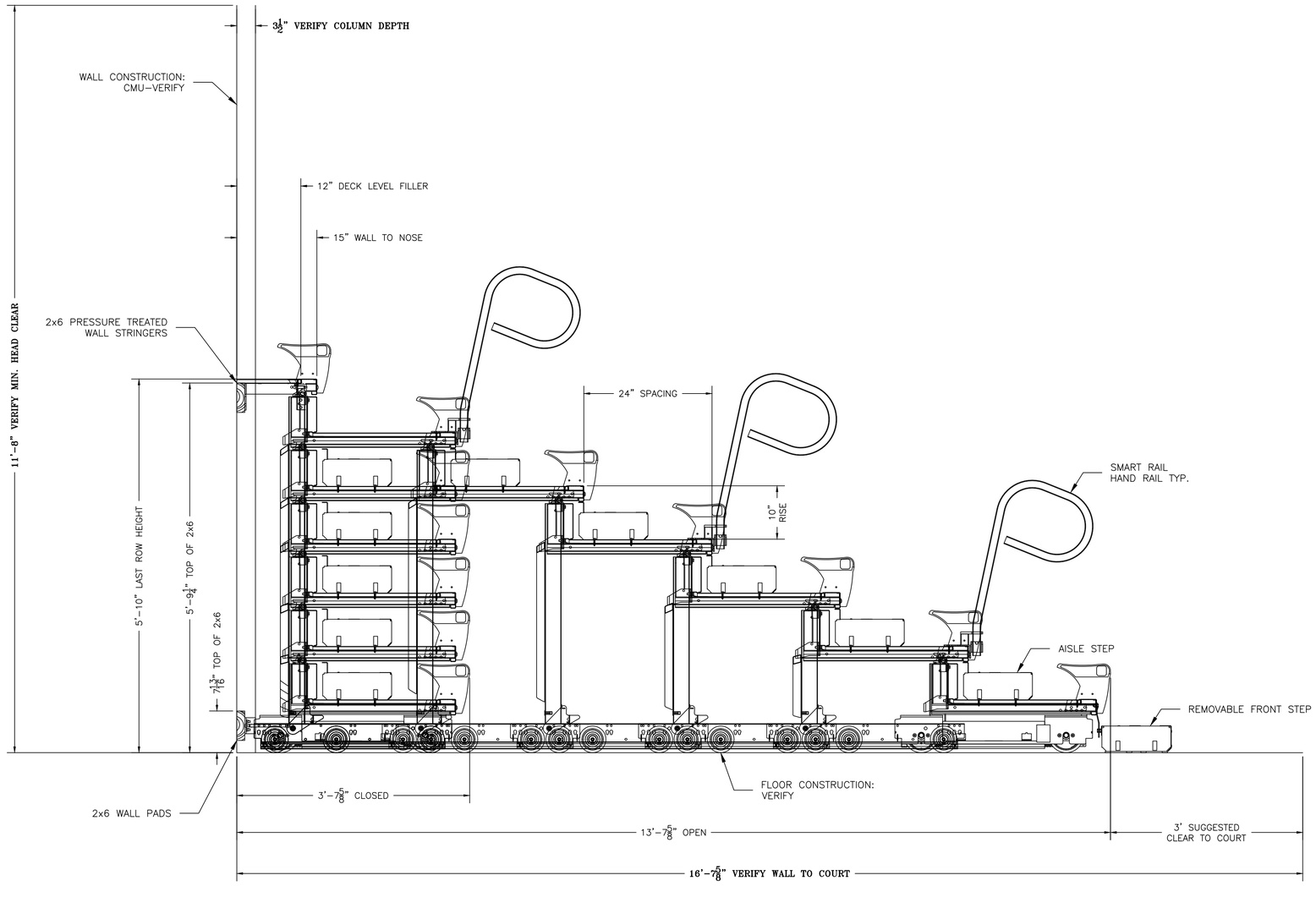
PLAN

SHEET #
A02



1 ELEVATION VIEW
Scale:1"=1' | ITSC Ref

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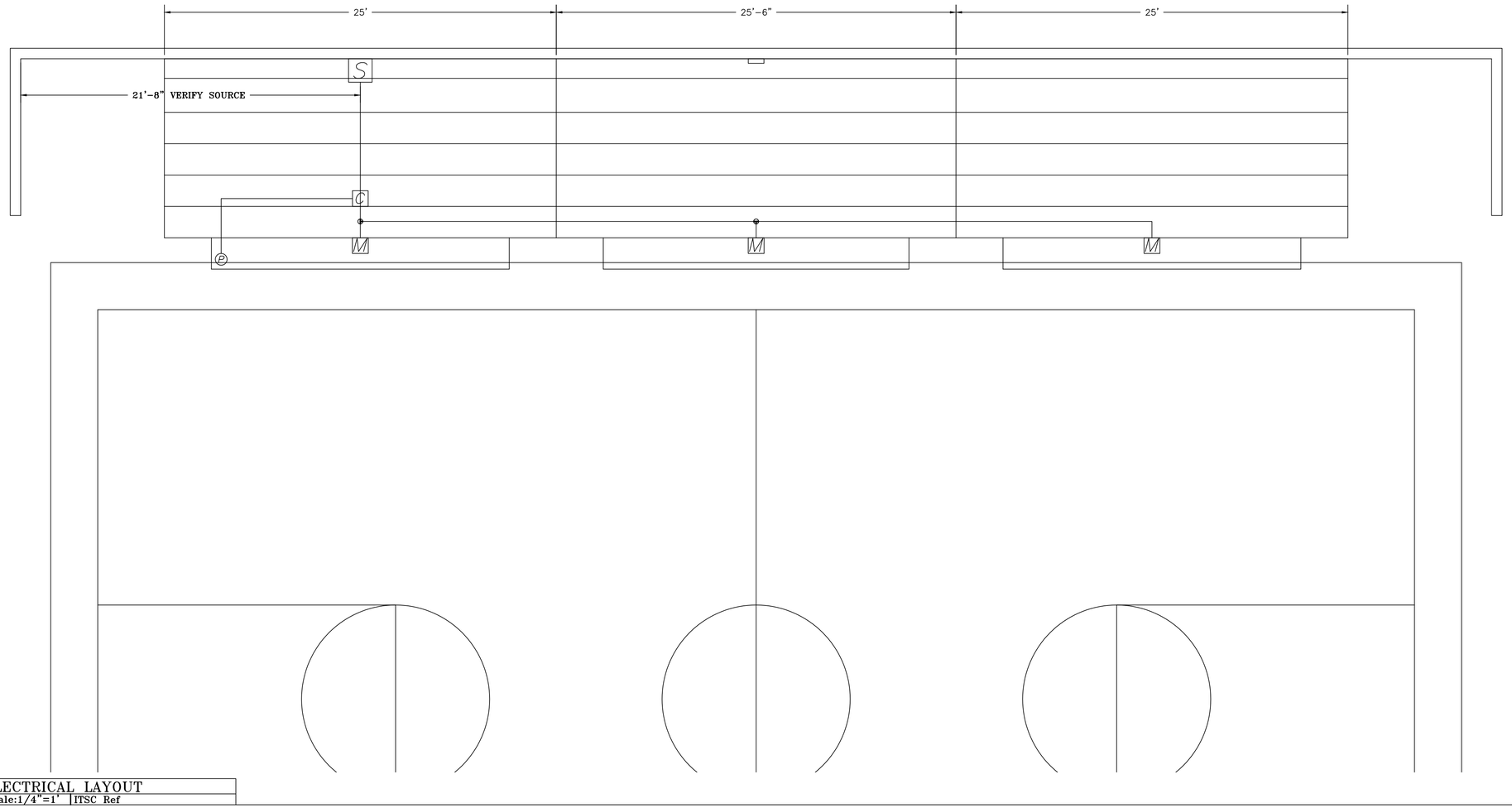
ELEVATION

SHEET #
A03



1 ELECTRICAL LAYOUT
Scale:1/4"=1' | ITSC Ref

REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STATE OF CALIFORNIA
7/10/24

POWER REQUIREMENTS: 208-230 VAC, 3Ø

NOTES:
Readily accessible disconnection box and wiring (as required by NEC) supplied and located by others.

20 amp feeder circuit protective devices to be provided by others per NEC 430.62(B) and UL508A 32.3.1(b)

Power Source Voltage: 208-230 Phase: 3Ø
S Amp: 20 Freq: 60 Hz
Notes: 5 wire (L1, L2, L3, NEUTRAL, GROUND)
NOTE: 4'-0" A.F.F. Max for 6 Rows and above
2'-0" A.F.F. Max for less than 6 Rows

Motor Nameplate

Irwin.

MODEL	E7TUJWJS7	
HP	1/2	1/2
VOLTS	208-230	230
HZ	60	50
AMPS	1.96-2.15	3.08
RPM	15.3-15.4	12.5
RATIO	111:1	
TORQUE	1750 IN-LBS	
BISON PN:	017-562-7111	

THREE PHASE AC GEARMOTOR

RED
WHITE
BLACK
GROUND GREEN/YELLOW

DUTY CYCLE: 5 MIN. ON - 30 MIN. OFF
TO REVERSE ROTATION INTERCHANGE
ANY TWO PHASE LEADS

MM/DD/YY RoHS CLOCK #

Aisle Lights Voltage: 120 VAC Phase: 1
J Amp: 15 Freq: 60 Hz
Notes: 120/24 Transformer by ITSC

M Motor | P Pendant | C Master Contactor | T Transformer
Q Auxiliary Contactor | Truncation Contactor | Distribution Tee
K Key Switch | Alarm | Limit Switches

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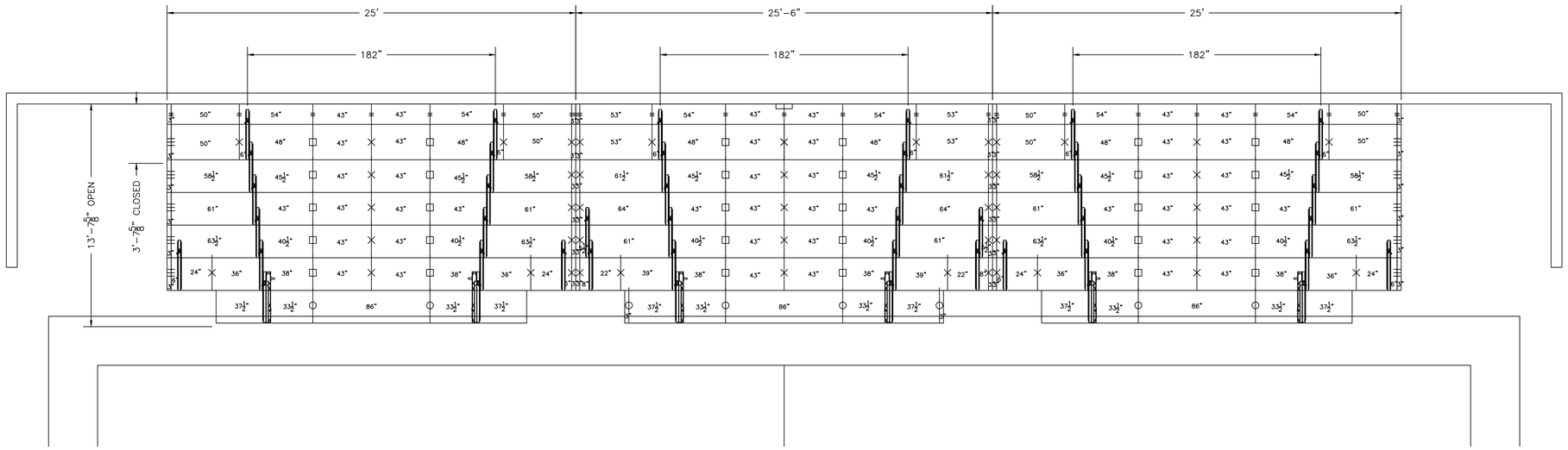
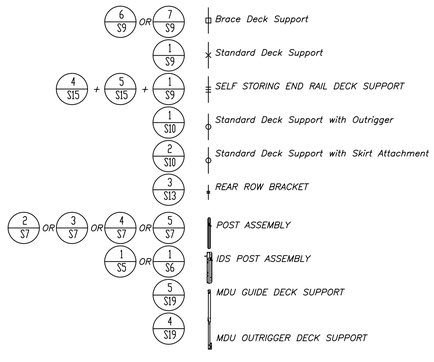
ELECTRICAL

SHEET #
A04



1 FRAMING PLAN
Scale: 1/4"=1' | ITSC Ref



Irwin Seating Company

Floor Design Loads & Notes:

- -Per ICC-300-2017
- Bleacher structure is designed for a uniform load of 100 pounds per square foot (psf) (ICC-300-2017,Table 303.2)
- Bleacher vertical design load is 120 pounds per linear foot(plf) (ICC-300-2017,Table 303.02)
- **The 120 plf vertical design load will be used for Wheel Load calculations.**

NOTE:

The design loads presented are calculated per the Design Requirements of ICC-300-2017. The Project Architect and/or Other Design Professional should review these loads for compliance with Governing Building Codes and compatibility with other Building Systems.

Controlling Section

Length: 25'-6"
Seating Rows: 7
Gross Projected Area: 25'-6" x 13'-8" = 349 sq. ft.

Wheel Path Area

Closed Position 3'-8" x 2'-0" x 2 wheel paths = 14.7 sq. ft.
Open Position 13'-8" x 2'-0" x 2 wheel paths = 54.7 sq. ft.

Total Load ***25,254 lbs.***

Dead Load 11.0 psf x 348.5 sq. ft. = 3,834 lbs.
Live Load 120.0 plf x 7 rows x 25'-6" length = 21,420 lbs

Distributed Loads Over Wheel Path Area

Closed Position 3,834 lbs. ÷ 14.7 sq. ft. = 261 psf
Open Position 25,254 lbs. ÷ 54.7 sq. ft. = 462 psf

Wheel Loads

Number of Wheels 6 wheels per deck x 6 deck rows = 36 wheels
Load per Wheel 25,254 lbs. ÷ 36 wheels = 702 lbs. per wheel

Point Loads:*(Live Load)*

Live Load per Wheel 702 lbs/wheel.
Wheel Pressure (Live Load) **511 psi Concentrated Load**

REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA
7/10/24

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FRAMING PLAN

SHEET #
A05

SPECIFICATION FOR TELESCOPIC EQUIPMENT

1. MATERIAL SPECIFICATION

1.1 STEEL COMPONENTS
- 1.1.1 STRUCTURAL STEEL: ANGLES CHANNELS, FLATS: ASTM A36
- 1.1.2 SHEET STEEL: 16, 14, AND 10 GAUGE HOT ROLLED: ASTM A1011 (Fy = 50KSI)
- 1.1.3 SUPPORT COLUMNS - 14 GAUGE RECT. TUBING, COLD FORMED: ASTM A500B (Fy = 46KSI)
- 1.1.4 NOSE AND REAR BEAMS: GALVANIZED COIL 14 GAUGE: ASTM A653 GRADE 50 (Fy = 50KSI)
- 1.1.5 NOSE AND REAR BEAMS: HOT ROLLED COIL 14 GAUGE: ASTM A1011 GRADE 50 (Fy = 50KSI)
- 1.1.6 LATERAL BRACING: 14 GAUGE RECT. TUBING, COLD FORMED ASTM A500B (Fy = 46KSI).
- 1.1.7 HORIZONTAL BRACING: 14 GAUGE RECT. TUBING, COLD FORMED ASTM A500B (Fy = 46KSI)
- 1.1.8 HORIZONTAL BRACING: FLAT BAR: ASTM A36
- 1.1.9 DECK SUPPORT ASSEMBLY: 14 GA COIL ASTM A1011 (Fy = 40KSI)
- 1.1.10 SKIRT: 14 GAUGE. COIL: ASTM A1011 (Fy = 40KSI)
- 1.1.11 GUARDRAIL TUBING: ASTM A500 - GRADE B (Fy = 46KSI)
- 1.1.12 HANDRAIL TUBING: ASTM A513 - GRADE B (Fy=46KSI)
- 1.1.13 FASTENERS - STRUCTURAL (BOLTS): SAE GRADE 5 (ASTM EQUIVALENT: ASTM A449) **U.N.O.**
- 1.1.14 PLASTIC SEAT MODULE:
  - 1.1.14.1 MATERIAL HDPE -CO-POLYMER CERTENE HI-752 OR EQUIVALENT
  - 1.1.14.2 DENSITY .952G/CM3 +/-.10
  - 1.1.14.3 CHEMICAL - FAMILY POLYOLEFIN
  - 1.1.14.4 RECYLCE CODE NO. 2

1.2 WOOD SEAT LUMBER
- 1.2.1 WOODEN SEAT BOARDS (*SHEET S4, DETAIL 8*) ARE MADE FROM GRADE C & BETTER SOUTHERN YELLOW PINE THAT IS UPGRADED TO MEET THE GRADING STANDARDS FOR GRADE B & BETTER. STANDARD GRADING RULES ARE ESTABLISHED BY THE SOUTHERN PINE INSPECTION BUREAU AND APPROVED BY THE BOARD OF REVIEW OF THE AMERICAN LUMBER STANDARDS COMMITTEE.
- 1.2.2 SOUTHERN PINE, NO. 1 DENSE, 8" WIDE, Fb = 1350PSI (NDS, 2018, TABLE, 4B)

1.3 BLEACHER DECKING MATERIALS
- 1.3.1 0.030 THICK HIGH DENSITY POLYETHYLENE OVERLAY ON APA RATED 5/8" OR 3/4" BCX SANDED PLYWOOD U.S. PRODUCT STD. CONFORMING TO VOLUNTARY PRODUCT STANDARD PS 1-07 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD PUBLISHED BY THE NATIONAL BUREAU OF STANDARDS, FEBRUARY 26, 2007 PLYWOOD IS EXTERIOR GRADE, 5 PLY CONSTRUCTION
  - 5/8" PANEL BENDING STRENGTH (FbS) 625 LBF-IN/FT (PARALLEL TO STRENGTH AXIS; APA 2020, D510F - TABLE 10)
  - 3/4" PANEL BENDING STRENGTH (FbS) 815 LBF-IN/FT (PARALLEL TO STRENGTH AXIS; APA 2020, D510F - TABLE 10)

1.4 WALL ATTACHMENT LUMBER
- 1.4.1 SOUTHERN PINE, PRESSURE TREATED NO. 1 DENSE; ALLOWABLE BENDING STRESS FOR FLAT USE 1650PSI (NDS, 2018, TABLE, 4B)

1.5 ARCHITECT OF RECORD TO VERIFY THAT THESE MATERIALS ARE SUITABLE TO BE INSTALLED IN THE BUILDING.

2. EXECUTION

2.1 ALL WELDING SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE (CBC) SECTIONS 2204A. 1 TITLE 24, OF CALIFORNIA CODE OF REGULATIONS (CCR)

2.2 ALL WELDING SHALL BE INSPECTED IN ACCORDANCE WITH 2022 CBC SECTION 1705A.2.1. AND SHALL BE PERFORMED DURING FABRICATION AT THE FACILITY OF MANUFACTURING.

2.3 ALL MEMBERS AND DETAILS SHALL BE AS ON THE LOAD TESTED STAND OR AS SUBSEQUENTLY APPROVED BY CALCULATIONS, WHICHEVER APPLIES.

2.4 FABRICATION SHALL CONFORM TO CBC CHAPTER 22A, TITLE 24 OF CCR AND IR 16-5.16

3. CERTIFICATION:

THE FOLLOWING CERTIFICATIONS SHALL BE SUBMITTED TO THE DIVISION OF THE STATE ARCHITECT UPON COMPLETION OF THE PROJECT PER IR 16-5.16 (BY THE BLEACHER MANUFACTURER).

3.1 STEEL CERTIFICATION
- 3.1.1 STEEL CERTIFICATION PER IR 16-5.16 SECTION 4.2

3.2 WELDER AND WELDING CERTIFICATION
- 3.2.1 TO BE PERFORMED BY CERTIFIED PROFESSIONAL WELDING OPERATORS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY, (AWS), D1.1 "STRUCTURAL WELDING CODE-STEEL".
- 3.2.2 WITH EACH BLEACHER THE MANUFACTURER WILL SEND DSA A VERIFIED REPORT MADE BY A QUALIFIED PROFESSIONAL ENGINEER, STATING THE FOLLOWING:
  - 3.2.2.1 WELDS ON THIS BLEACHER HAVE BEEN MADE BY OPERATORS WHO HAVE BEEN PREVIOUSLY QUALIFIED BY TESTS, AS PRESCRIBED IN THE QUALIFICATION SECTION OF THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY, TO PERFORM THE TYPE OF WORK REQUIRED.
  - 3.2.2.2 I HAVE SELECTED AN A.W.S. C.W.I. TO ACT AS WELDING INSPECTOR. I CERTIFY HIM TO BE EXPERIENCED IN INSPECTION OF ARC WELDS ON WORK REQUIRING UNQUESTIONED RELIABILITY, AND THAT HE HAS THE ABILITY TO DISTINGUISH BETWEEN SOUND AND UNSOUND WELDING.
- 3.2.3 WITH EACH BLEACHER, THE WELDING INSPECTOR WILL SEND DSA A VERIFIED REPORT STATING:
  - 3.2.3.1 I HAVE CHECKED THE EQUIPMENT AND FIND IT ADEQUATE AND HAVE CHECKED THE ABILITY OF THE WELDERS AND FOUND THEM SATISFACTORY.
  - 3.2.3.2 I HAVE INSPECTED ALL THE WELDING AND FOUND IT PROPER AND IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS AND CHAPTER 22, TITLE 24, CCR. I HAVE USED ALL NECESSARY TESTS TO ASSURE MYSELF OF THE ADEQUACY OF THE WELDING.

4. DESIGN LOADS

4.1 AS SPECIFIED IN 2022 CBC TABLE 1607.A.1, ITEM 24 AND ICC 300-2017
- 4.1.1 DEAD LOAD
  - 4.1.1.1 WEIGHT OF BLEACHER COMPONENTS THAT CONTRIBUTE TO THE GRAVITY LOAD(S) WITHIN A GIVEN LOAD PATH
- 4.1.2 LIVE LOAD
  - 4.1.2.1 A UNIFORMLY DISTRIBUTED VERTICAL LIVE LOAD OF NOT LESS THAN 100 LBS. PER SQ. FT. (4788 PA) OF GROSS HORIZONTAL PROJECTION. (TABLE 1607A.1, ITEM 24 AND ICC 300-2017)
  - 4.1.2.2 SEATBOARDS AND FOOTRESTS SHALL BE DESIGNED FOR A VERTICAL LIVE LOAD OF NOT LESS THAN 120LBS PER LINEAR FOOT (1.752 KN/M). (ICC 300-2017)
- 4.1.3 HORIZONTAL SWAY: (ICC 300-2017)
  - 4.1.3.1 24 LBS/FT (0.350 KN/M) PARALLEL TO SEAT LENGTH
  - 4.1.3.2 10 LBS/FT (0.146 KN/M) PERPENDICULAR TO SEAT LENGTH
- 4.1.4 ALL COLUMNS
  - 4.1.3.1 HAVE A SLENDERNESS RATIO OF LESS THAN 200
  - 4.1.3.2 HAVE LATERAL BRACING THAT ACTS AS TENSION OR COMPRESSION BRACING
- 4.1.5 SEISMIC CRITERIA: SEE **TABLE S1.0**

DRAWING SYMBOLS LEGEND

THE SYMBOLS SHOWN BELOW ARE TYPICAL THROUGHOUT THIS SET OF DRAWINGS

(X/X) <======= Detail Number / Sheet Number

(X) <===== Material Number

ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE (U.N.O.)

5. REFERENCES: CBC 2022

5.1 REFERENCES PER CBC 2022 CHAPTER 35 AND AS NOTED BELOW
- 5.1.1 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS 2018) AMERICAN FOREST & PAPER ASSOC.
- 5.1.2 PANEL DESIGN SPECIFICATION (APA PDS-12) AMERICAN PLYWOOD ASSOCIATION ENGINEERED WOOD ASSOC.
- 5.1.3 2022 CALIFORNIA BUILDING CODE
- 5.1.4 DSA IR 16-5.16
- 5.1.5 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS (NAS) REF.: S100-16 AMERICAN IRON AND STEEL INSTITUTE.
- 5.1.6 STEEL CONSTRUCTION MANUAL - AISC 360-16 AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- 5.1.7 AWS STRUCTURAL WELDING CODE - STEEL (D1.1-15)
- 5.1.8 AWS STRUCTURAL WELDING CODE - SHEET STEEL (D1.3-08)
- 5.1.9 ICC STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS (ICC 300-2017) INTERNATIONAL CODE COUNCIL, INC.
- 5.1.10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES(ASCE 7-16) AMERICAN SOCIETY OF CIVIL ENGINEERS / STRUCTURAL ENGINEERING INSTITUTE

5.2 TITLE 24 CODES
- 5.2.1 PART 1 2022 CALIFORNIA ADMINISTRATION CODE (CAC) (Part 1, Title 24, CCR)
- 5.2.2 PART 2 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (Part 2, Title 24, CCR)
- 5.2.4 PART 3 2022 CALIFORNIA ELECTRICAL CODE (CEC) (Part 3, Title 24, CCR)
- 5.2.5 PART 4 2022 CALIFORNIA MECHANICAL CODE (CMC) (Part 4, Title 24, CCR)
- 5.2.6 PART 5 2022 CALIFORNIA PLUMBING CODE (CPC) (Part 5, Title 24, CCR)
- 5.2.7 PART 6 2022 CALIFORNIA ENERGY CODE (Part 6, Title 24, CCR)
- 5.2.9 PART 9 2022 CALIFORNIA FIRE CODE (CFC) (Part 9, Title 24, CCR)
- 5.2.10 PART 10 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) (Part 10, Title 24, CCR)
- 5.2.11 PART 11 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen) (Part 11, Title 24, CCR)
- 5.2.12 PART 12 2022 CALIFORNIA REFERENCED STANDARDS CODE (Part 12, Title 24, CCR)
- 5.2.13 TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS
2022 CBC CHAPTER 35
2022 CFC CHAPTER 80

FLS: NEW SITE MUST COMPLY WITH ICC 300-2017 SECTION 102.1, CHAPTER 1 THRU 4.
EXISTING SITE MUST COMPLY WITH ICC 300-2012 SECTION 102.1, CHAPTER 1, 2, & 5 AND CFC SECTION 1030.
ACS: BLEACHERS ARE REQUIRED TO COMPLY WITH ACCESS COMPLIANCE REGULATIONS IN TITLE 24, VOLUME 1 OF 2

5.3 WELDING PROCESS
- 5.3.1 STRUCTURAL STEEL WELDING TO COMPLY WITH AWS D1.1-15 AND CHAPTER 22A OF THE 2022 CBC
- 5.3.2 SHEET METAL WELDING TO COMPLY WITH AWS D1.3 AND CHAPTER 22A OF THE 2022 CBC
- 5.3.3 STEEL TESTING CERTIFICATION TO COMPLY WITH CHAPTER 22A, SECTION 2203A.1 OF THE 2022 CBC
- 5.3.4 WELDING INSPECTOR AND WELDING INSPECTION TO COMPLY WITH CHAPTER 17A, SECTION 1705A OF 2022 CBC AND THE DIVISION OF STATE ARCHITECT INTERPRETATION OF REGULATION MANUAL.
- 5.3.5 QUALIFICATION OF WELDS AND INSPECTION OF WELDING MATERIAL TO COMPLY WITH DSA IR 16-5.16
- 5.3.6 WELDING ELECTRODE WILL CONFORM TO AWS A5.18, ASME SFA-S-18 ER70S-3 AND AWS A5.17 ASME SFA-5.17 EN14K 1E332-C AND 1E5591. CERTIFIED BY CSB TO CWA W48 (ER29S-3) (EEM13K)
- 5.3.7 CFC SECTIONS 2603; 2604; AND IF APPLICABLE 2605 AND2606

6. NOTE

6.1 WHEN A BLEACHER EXERTS A FORCE ON A WALL OF A BUILDING, THE BUILDING'S STRUCTURAL ENGINEER MUST REVIEW AND APPROVE THE ADDITIONAL LOADS CAUSED BY THE BLEACHER.

6.2 WHEN A BLEACHER EXERTS A FORCE ON THE FLOOR OF A BUILDING, THE BUILDING'S STRUCTURAL ENGINEER MUST REVIEW AND APPROVE THE ADDITIONAL LOADS CAUSED BY THE BLEACHER.

TABLE S1.0
Seismic Design Parameters

		Seismic Parameters	Site-Specific Parameters	Without Soils Report	With Soils Report	
Risk Category:	III					
Ie	1.25	Site Class[5]		Assumed Site Class D (Default)	Site Class C & E	Site Class D
Seismic Design Category:	D (S_1 < 0.75)	S_S	1.37	3.0375	3.0375	3.645
		F_a[1]		1.2[1]	1.2	1.0
Lateral Force Resisting System[2]:		S_{MS}[4]	1.62	3.645	3.645	3.645
Parallel to seating:	Nonbuilding Structures, Not Similar to buildings, ASCE 7 Ch. 15, All Other Self-Supporting Structures	S_{DS}	1.08	2.43	2.43	2.43
Perpendicular to seating:	Nonstructural Components ASCE 7 Ch. 13, Eqn 13.3-1	S_1	0.44	0.749	0.749	0.749
		F_v		-	-	-
Analysis Procedure:	Equivalent Lateral Force	S_{M1}	1.11	-	-	-
$R_{parallel}$[2]	1.25	S_{D1}	0.74	-	-	-
$R_{perpendicular}$[2]	2.5	Shading indicates site-specific info to be provided with site-specific application.				
$a_{p\ parallel}$[2]	2.5	1. Per ASCE 7-16, Fa shall be in accordance with Section 11.4.8.				
$a_{p\ perpendicular}$[2]	1.0	2. In accordance with DSA IR 16-5.16 Section 3.2.2.1.				
Ω_o[2]	2	3. Per ASCE 7-16, Section 11.4.8, a Site Response Analysis in accordance with Section 21.1 is required unless exempted by Section 20.3.1 for Site Class F.				
ρ	1	4. Per CBC 1613A.2.3, SMS (SDS) shall not be taken as less than SM1 (SD1).				
		5. Site shall be Class D (Default) if no soils report, unless there is evidence of Class E or F soils present.				

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7/10/24

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REGISTERED PROFESSIONAL ENGINEER — AMBER DELLANGELO — S 6402 — STRUCTURAL — STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REV.	DATE	DESCRIPTION

DRAFTER: KMR DATE: 3/2/2023

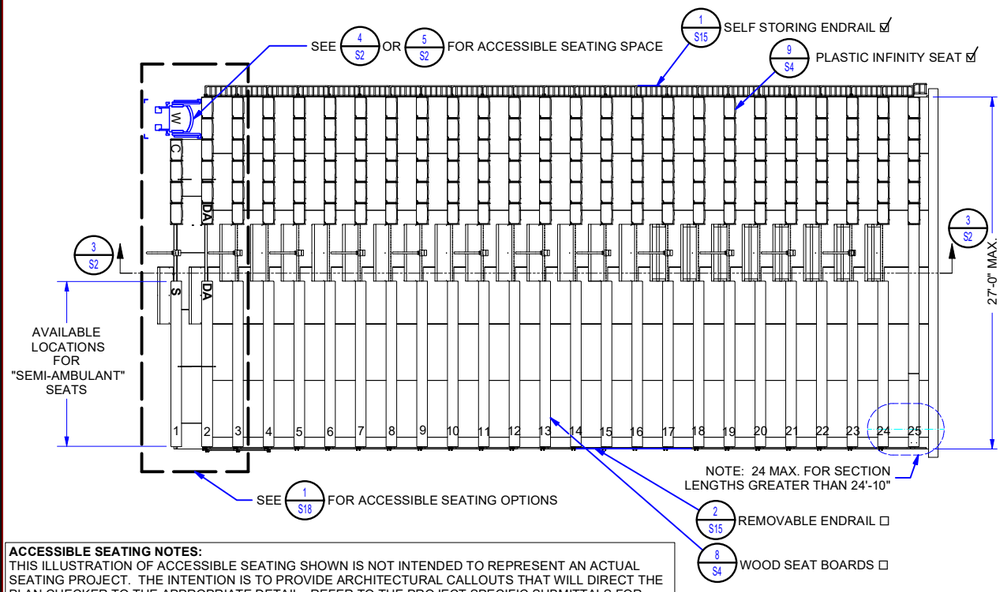
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

SPECIFICATIONS FOR IRWIN VERSATRACT BLEACHERS

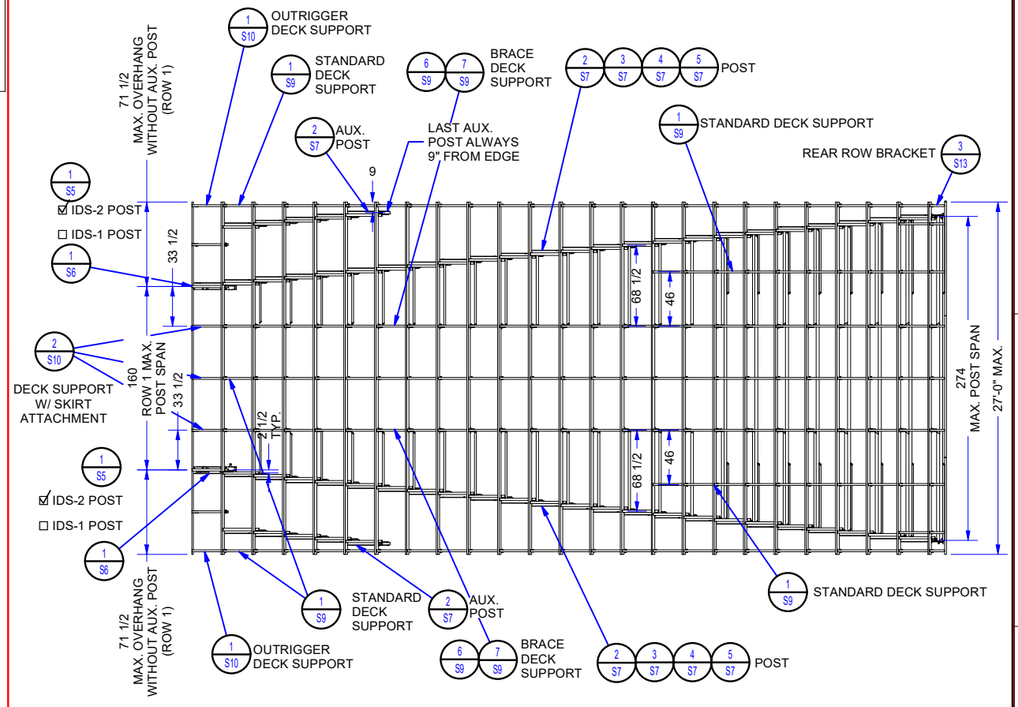
SHEET # **S1**

SEATING LAYOUT NOTE:
THIS ILLUSTRATION OF SEATING SHOWN IS NOT INTENDED TO REPRESENT AN ACTUAL SEATING PROJECT. THE INTENTION IS TO PROVIDE ARCHITECTURAL CALLOUTS THAT WILL DIRECT THE PLAN CHECKER TO THE APPROPRIATE DETAIL. REFER TO THE PROJECT SPECIFIC SUBMITTALS FOR SEATING LAYOUT.

AISLE WIDTH NOTE:
THIS ILLUSTRATION OF AISLE WIDTH SHOWN IS NOT INTENDED TO REPRESENT AN ACTUAL AISLE WIDTH OF A SEATING PROJECT. THE INTENTION IS TO PROVIDE ARCHITECTURAL CALLOUTS THAT WILL DIRECT THE PLAN CHECKER TO THE APPROPRIATE DETAIL. REFER TO THE PROJECT SPECIFIC SUBMITTALS FOR AISLE WIDTH.



10" RISE PLAN VIEW - 25 ROWS — Scale: 1/28 — ITSC Ref.: N/A — 1

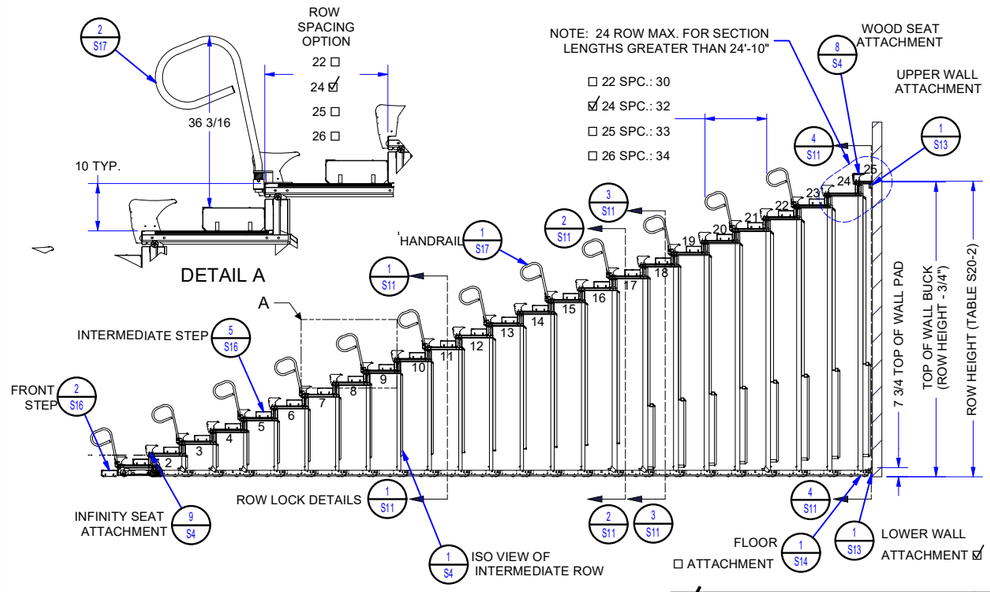


MAX SPAN BETWEEN COMPONENTS = 70"
ALL DIMENSIONS GIVEN IN INCHES U.N.O.

10" RISE FRAMING PLAN - 25 ROWS — Scale: 1/28 — ITSC Ref.: N/A — 2

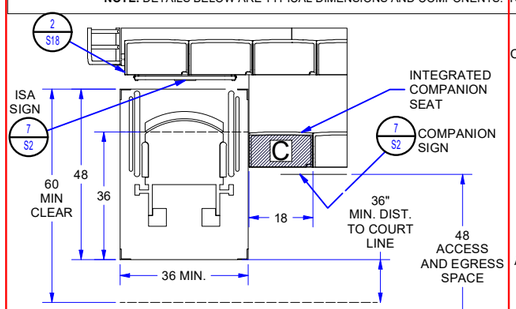
ACCESSIBLE SEATING NOTES:
THIS ILLUSTRATION OF ACCESSIBLE SEATING SHOWN IS NOT INTENDED TO REPRESENT AN ACTUAL SEATING PROJECT. THE INTENTION IS TO PROVIDE ARCHITECTURAL CALLOUTS THAT WILL DIRECT THE PLAN CHECKER TO THE APPROPRIATE DETAIL. REFER TO THE PROJECT SPECIFIC SUBMITTALS FOR ACCESSIBLE SEATING LAYOUT.

COMPLY WITH **CBC 11B-221 ASSEMBLY AREAS**
11B-221.2.3.1 Wheelchair spaces shall be dispersed horizontally. *In assembly areas that have seating encircling, in whole or part, a field of play or performance, wheelchair spaces shall be dispersed horizontally around the field of play or performance are.*
Exceptions:
1. Horizontal dispersion shall not be required in assembly areas with 300 or fewer seats if companion seats required by Section 11B-22.3 and wheelchair spaces are located within the 2nd or 3rd quartile of the total row length. Intermediate aisles shall be included in determining total row length. If the row length in the 2nd and 3rd quartile of a row is insufficient to accommodate the required number of companion seats and wheelchair spaces, the additional companion seats and wheelchair spaces shall be permitted to be located in the 1st and 4th quartile of the row
2 In row seating, two wheelchair spaces shall be permitted to be located side-by-side.

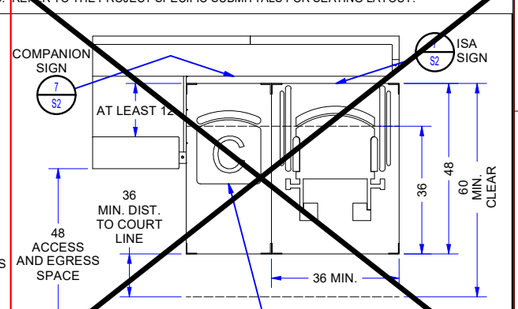


10" ELEVATION - 25 ROWS — Scale: 1/28 — ITSC Ref.: N/A — 3

NOTE: DETAILS BELOW ARE TYPICAL DIMENSIONS AND COMPONENTS. REFER TO THE PROJECT SPECIFIC SUBMITTALS FOR SEATING LAYOUT.



PERAMANENT ACCESSIBLE SPACE W/ COMPANION — Scale: 3/128 — ITSC Ref.: N/A — 4



PERMANENT ACCESSIBLE SPACE W/ FLOOR COMPANION — Scale: 3/128 — ITSC Ref.: N/A — 5

ASSEMBLY AREAS (PER CBC 11B-221)

SEATING CAPACITY	W	C	S	DA
4 to 25	1	1	2	Min. of 5% of the total number of aisle seats. Identify per 11B-802.4.2. (Ref. Detail 1/S2)
26 to 50	2	2	2	
51 to 150	4	4	2	
151 to 300	5	5	1% (min. 2)	
301 to 500	6	6	1% (min. 2)	
501 to 5000	6, plus 1 for each *100*, or fraction thereof, between 501 through 5000	6, plus 1 for each *100*, or fraction thereof, between 501 through 5000	1% (min. 2)	

Note:
Additional signage to be provided at ticket booth regarding availability

Legend:
W Wheelchair space
C Companion seat
S Semi-ambulant seat (11B-802.5)
DA Designated Aisle Seat

ADA CHART — Scale: N/A — ITSC Ref.: N/A — 6

(**W**) INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) TO BE INSTALLED AT ACCESSIBLE SEATING SPACES SIGN TO COMPLY w/ CBC 11B-703.7.2.1
(**C**) COMPANION SIGNAGE TO BE INSTALLED AT COMPANION SEATING
(**DA**) DESIGNATED AISLE SEAT SIGNAGE TO BE INSTALLED AT DESIGNATED AISLE SEATS

(**W**) 4" X 4" ISA WHITE GRAPHIC w/ BLUE BACKGROUND

COMPANION SEAT WILL BE MADE AVAILABLE UPON REQUEST

(**C**) 4" X 10 1/2" WHITE LETTERING w/ BLUE BACKGROUND

(**DA**) 2 1/2" SQ. ISA WHITE GRAPHICS ON BLUE BACKGROUND

ACCESSIBILITY SIGNAGE — Scale: 3/128 — ITSC Ref.: N/A — 7

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA
7/10/24

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AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA
1/8/2024

IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563–6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

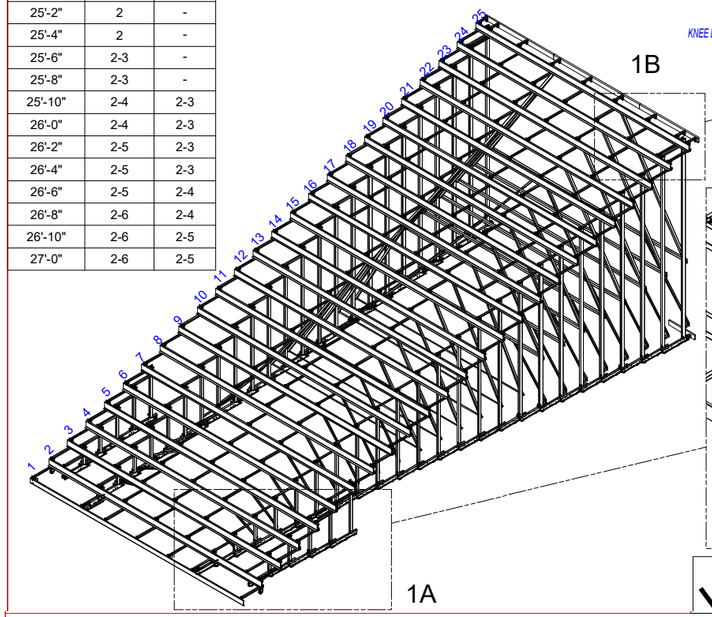
DRAFTER: KMR — DATE: 3/2/2023

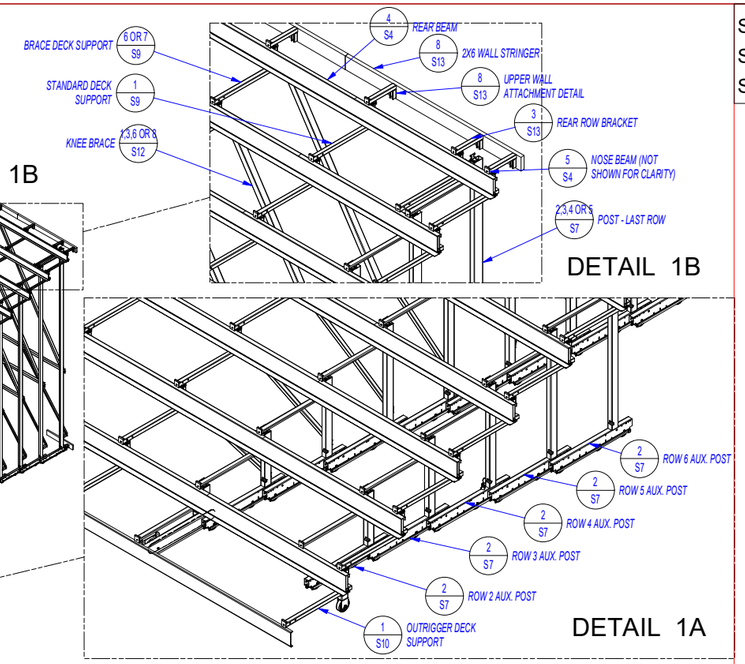
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

10 RISE PLAN, ELEVATION & FRAMING

SHEET # **S2**

AUX. POST TABLE		
SECTION LENGTH	10" RISE ROWS	12" RISE ROWS
25'-0"	-	-
25'-2"	2	-
25'-4"	2	-
25'-6"	2-3	-
25'-8"	2-3	-
25'-10"	2-4	2-3
26'-0"	2-4	2-3
26'-2"	2-5	2-3
26'-4"	2-5	2-3
26'-6"	2-5	2-4
26'-8"	2-6	2-4
26'-10"	2-6	2-5
27'-0"	2-6	2-5

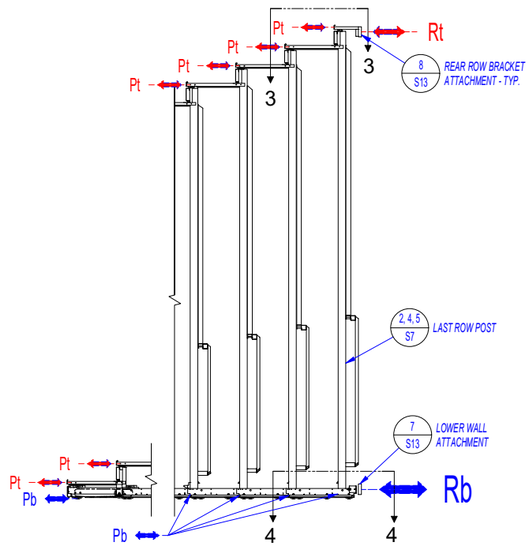




AUX. POST - ISO VIEW

Scale: N/A | ITSC Ref.:N/A | 1

SEE SHEET S0 FOR PROJECT-SPECIFIC WALL LOAD DATA.
SEE SHEET S22 FOR 10" RISE GENERAL WALL LOAD DATA
SEE SHEET S23 FOR 12" RISE GENERAL WALL LOAD DATA



WALL LOAD SECTION VIEW

Scale: N/A | ITSC Ref.:N/A | 2

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STRUCTURAL
STATE OF CALIFORNIA

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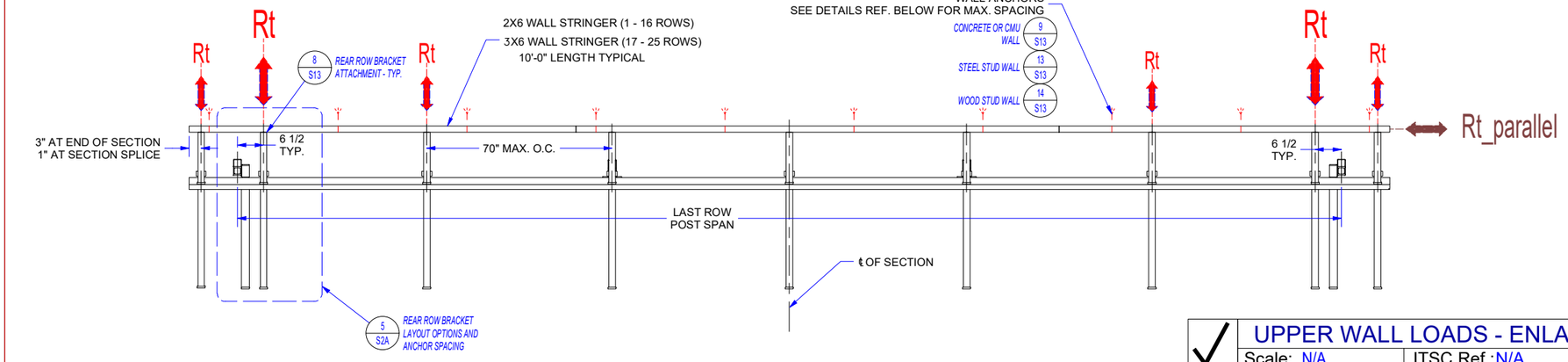
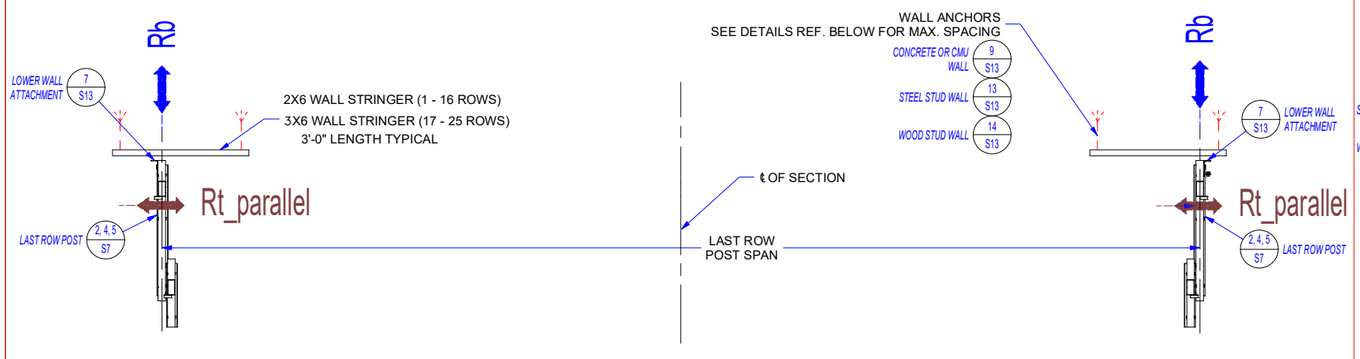
IRWIN VERSATRACT
PRE-CHECK DRAWINGS: 2022 CBC
FILE: PC-ITSC APP ID: 02-121254

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



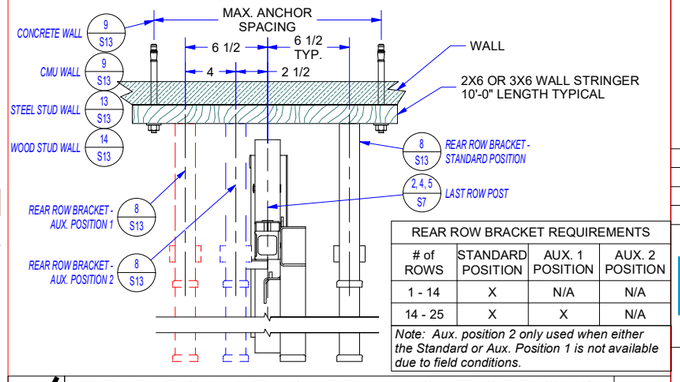
UPPER WALL LOADS - ENLARGED PLAN

Scale: N/A | ITSC Ref.:N/A | 3



LOWER WALL LOADS - ENLARGED PLAN

Scale: N/A | ITSC Ref.:N/A | 4



REAR ROW BRACKET REQUIREMENTS			
# of ROWS	STANDARD POSITION	AUX. 1 POSITION	AUX. 2 POSITION
1 - 14	X	N/A	N/A
14 - 25	X	X	N/A

Note: Aux. position 2 only used when either the Standard or Aux. Position 1 is not available due to field conditions.

REAR ROW BRACKET LAYOUT OPTIONS

Scale: N/A | ITSC Ref.:N/A | 5

REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA

1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

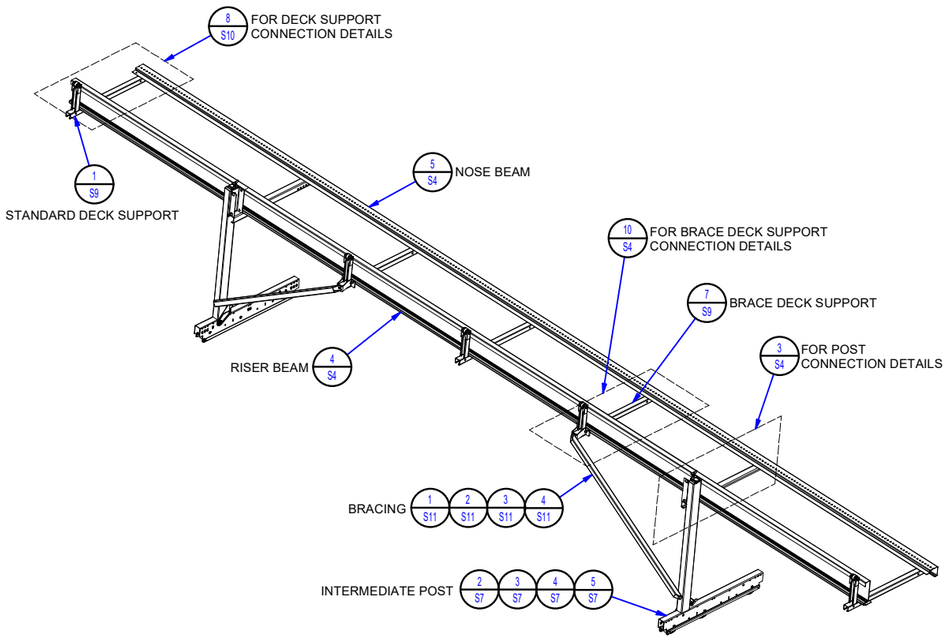
REV.	DATE	DESCRIPTION

DRAFTER: KMR | DATE: 3/2/2023

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

ADDITIONAL DETAILS

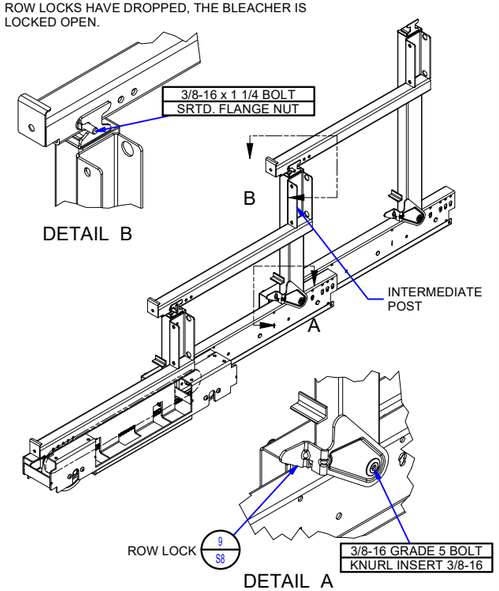
SHEET # S2A



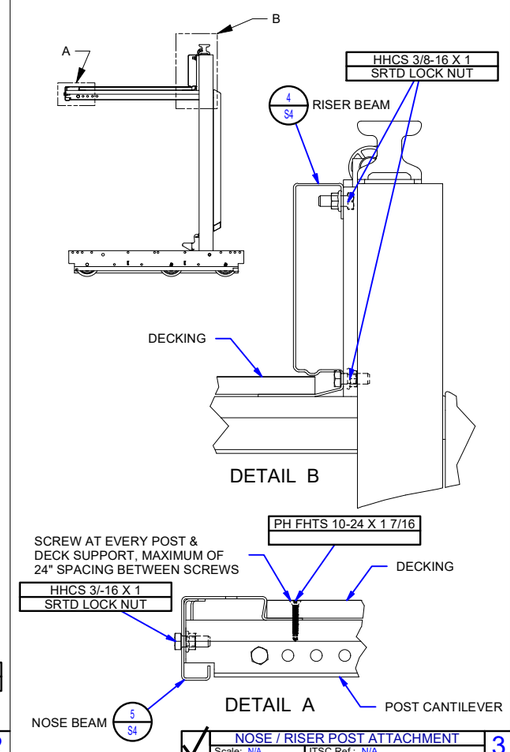
DECKING NOT SHOWN FOR CLARITY

ISO VIEW INTERMEDIATE ROW — Scale: N/A — ITSC Ref.: N/A — 1

WHEN THE ROW 1 DECK IS CLOSED, THE ROW 1 ROW LOCK TRIPPER WILL ENGAGE THE ROW LOCK ON THE ROW 2 INTERMEDIATE SUPPORT POST. THE ROW LOCK WILL PIVOT AROUND THE INSERT BOLT AND RELEASE FROM THE LOWER POST STOP. THIS WILL ALLOW THE ROW 2 DECK TO CLOSE. THIS PROCESS WILL CONTINUE UNTIL ALL ROWS HAVE CLOSED. AS BLEACHER OPENS, GRAVITY WILL ALLOW ROW LOCKS TO DROP AND LOCK OVER THE LOWER POST STOPS. WHEN ALL ROW LOCKS HAVE DROPPED, THE BLEACHER IS LOCKED OPEN.



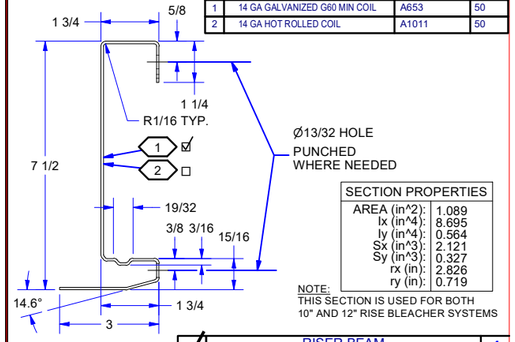
ROW LOCK DETAILS — Scale: N/A — ITSC Ref.: N/A — 2



NOSE / RISER POST ATTACHMENT — Scale: N/A — ITSC Ref.: N/A — 3

MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA GALVANIZED G60 MIN COIL	A653	50
2	14 GA HOT ROLLED COIL	A1011	50



SECTION PROPERTIES

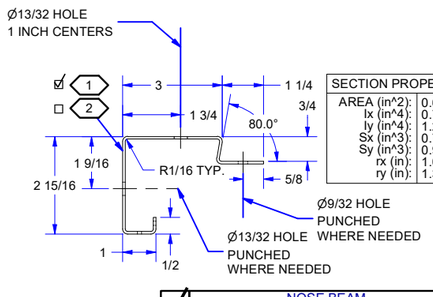
AREA (in^2):	1.089
Ix (in^4):	8.695
Iy (in^4):	0.564
Sx (in^3):	2.121
Sy (in^3):	0.327
rx (in):	2.826
ry (in):	0.719

NOTE: THIS SECTION IS USED FOR BOTH 10" AND 12" RISE BLEACHER SYSTEMS

RISER BEAM — Scale: 7/32 — ITSC Ref.: P03RFV0009544 — 4

MATERIAL(S) TABLE

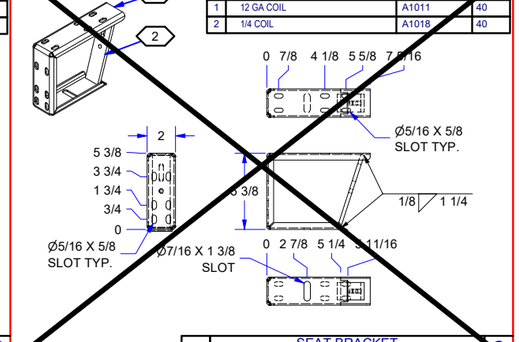
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA GALVANIZED G60 MIN COIL	A653	50
2	14 GA HOT ROLLED COIL	A1011	50



SECTION PROPERTIES

AREA (in^2):	0.678
Ix (in^4):	0.735
Iy (in^4):	1.217
Sx (in^3):	0.717
Sy (in^3):	0.906
rx (in):	1.042
ry (in):	1.340

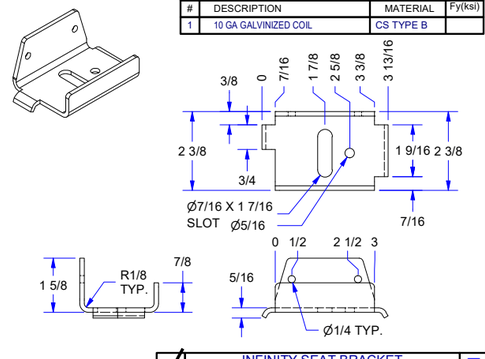
NOSE BEAM — Scale: 7/32 — ITSC Ref.: P03RFV0009546 — 5



MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA COIL	A1011	40
2	1/4 COIL	A1018	40

SEAT BRACKET — Scale: 3/32 — ITSC Ref.: A30MIV0006487 — 6

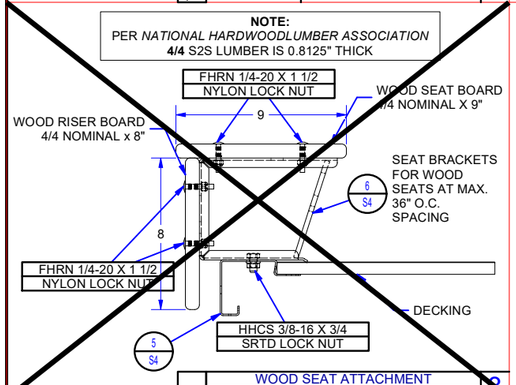


MATERIAL(S) TABLE

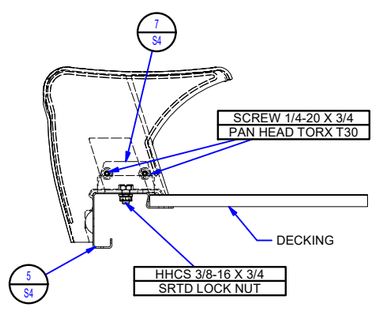
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	10 GA GALVANIZED COIL	CS TYPE B	

INFINITY SEAT BRACKET — Scale: 3/32 — ITSC Ref.: P30MI0004380 — 7

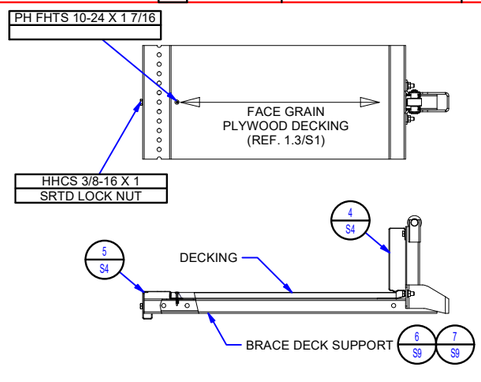
NOTE:
PER *NATIONAL HARDWOODLUMBER ASSOCIATION*
4/4 S2S LUMBER IS 0.8125" THICK

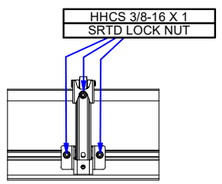


WOOD SEAT ATTACHMENT — Scale: 1/8 — ITSC Ref.: N/A — 8



INFINITY SEAT ATTACHMENT — Scale: 1/8 — ITSC Ref.: N/A — 9





BRACE DECK SUPPORT CONNECTION — Scale: 1/16 — ITSC Ref.: N/A — 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA
7/10/24

IDENTIFICATION STAMP
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IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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AMBER DELLANGELO
S 6402
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STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

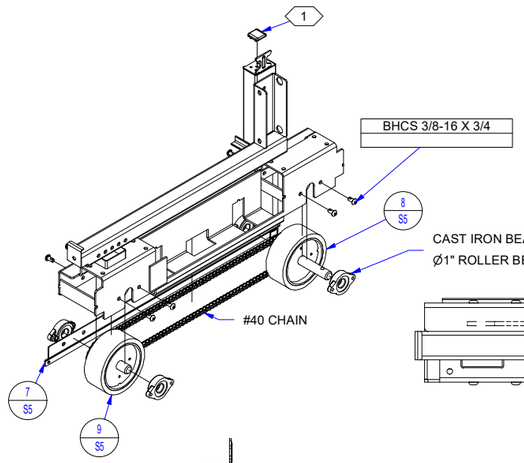
REV.	DATE	DESCRIPTION

DRAFTER: KMR — DATE: 3/2/2023

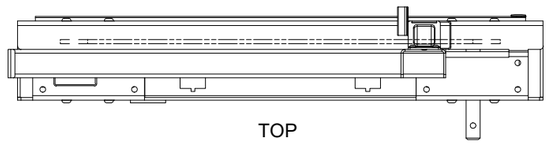
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

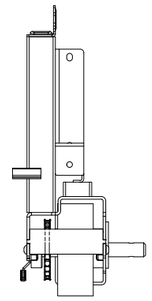
DECK AND SEAT ASSEMBLIES

SHEET # **S4**

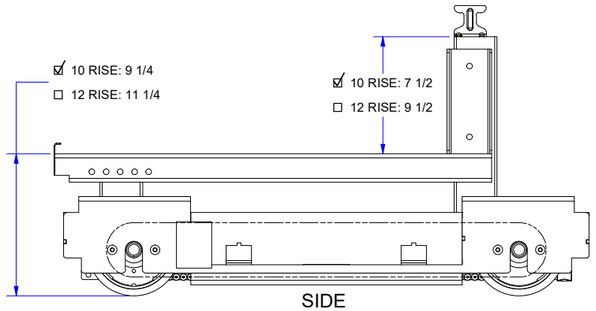


MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	CANTILEVER REST	ZYTEL	

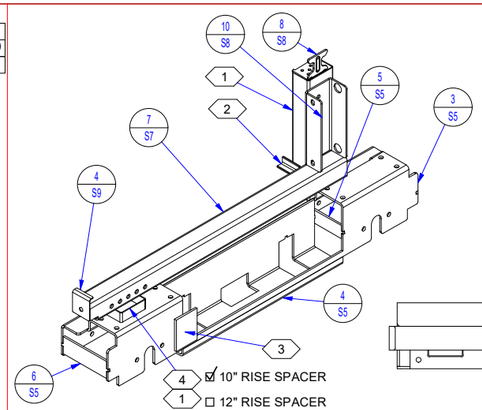




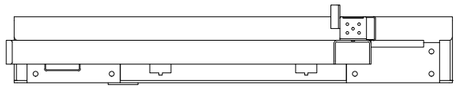
L.H. SHOWN
R.H. OPPOSITE

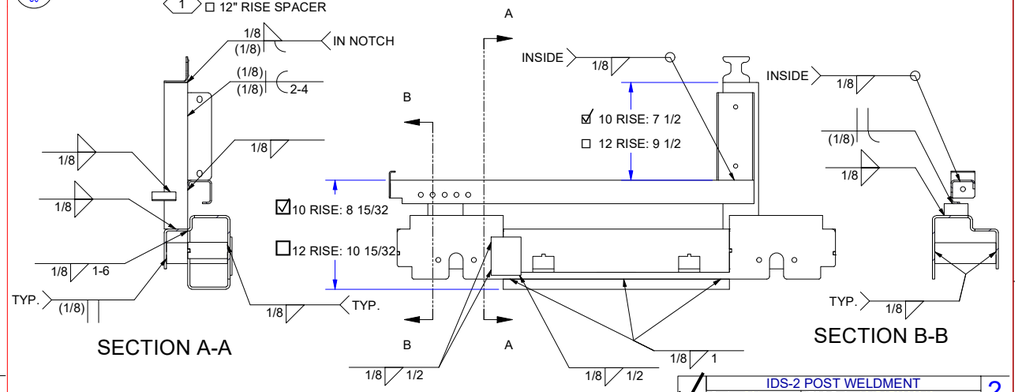


IDS-2 POST ASSEMBLY — Scale: 3/32 — ITSC Ref.: A21PAE0000047 — 1



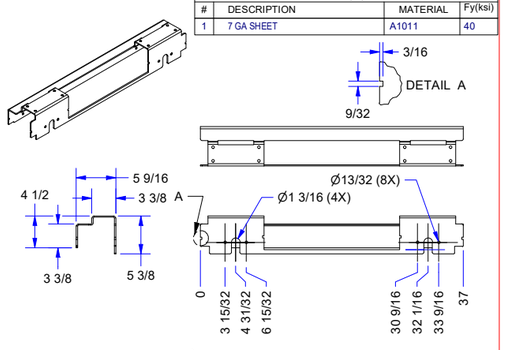
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 3 X 2 RECTANGULAR TUBE	A500 GR B	46
2	1/8 X 3/4 X 3/4 ANGLE	A36	36
3	7 GA SHEET	A1011	40
4	FLAT BAR 1/4 X 1	A36	36





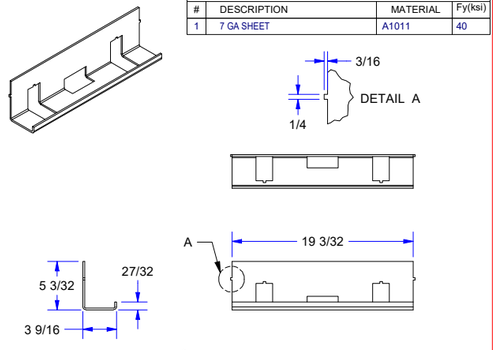
IDS-2 POST WELDMENT — Scale: 5/64 — ITSC Ref.: A21PAE0000048 — 2

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40



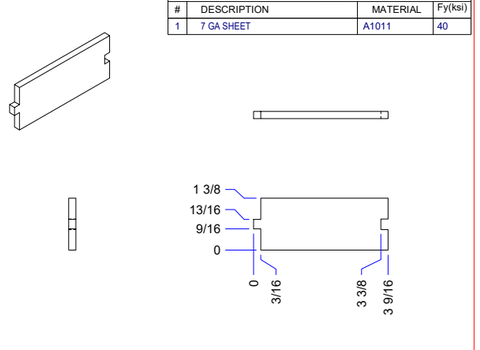
IDS-2 POST CHANNEL — Scale: 3/64 — ITSC Ref.: P12PWV0002520 — 3

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40



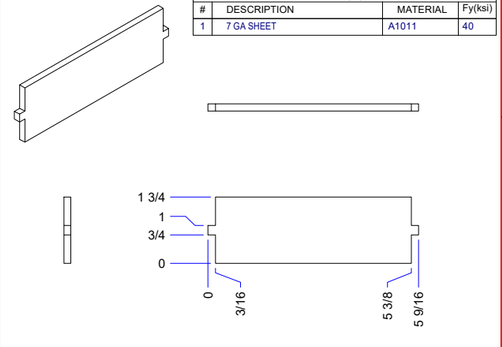
IDS-2 POST WEIGHT TRAY — Scale: 1/16 — ITSC Ref.: P21MPV0000059 — 4

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40



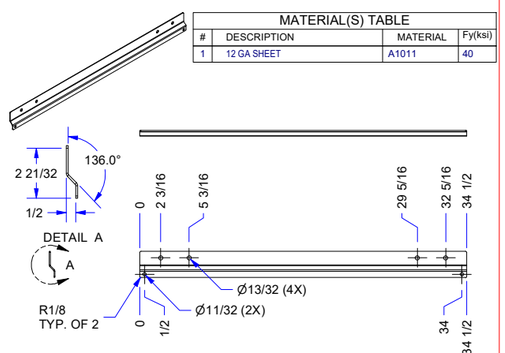
IDS-2 POST STIFFENER — Scale: 1/4 — ITSC Ref.: P21MPV0000058 — 5

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40



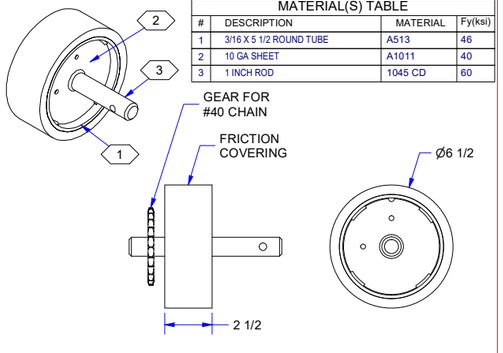
IDS-2 POST END STIFFENER — Scale: 1/4 — ITSC Ref.: P21MPV0000057 — 6

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA SHEET	A1011	40



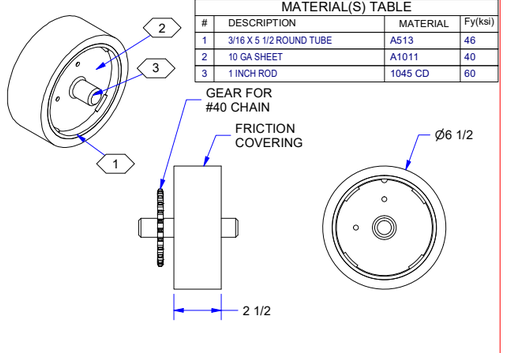
IDS-2 GUIDE — Scale: 1/16 — ITSC Ref.: P21MPV0001325 — 7

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	3/16 X 5 1/2 ROUND TUBE	A513	46
2	10 GA SHEET	A1011	40
3	1 INCH ROD	1045 CD	60



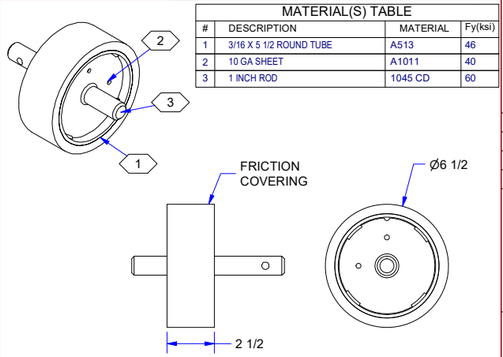
IDS-2 REAR ROLLER — Scale: 1/8 — ITSC Ref.: A21MPV0000054 — 8

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	3/16 X 5 1/2 ROUND TUBE	A513	46
2	10 GA SHEET	A1011	40
3	1 INCH ROD	1045 CD	60



IDS-2 FRONT ROLLER — Scale: 1/8 — ITSC Ref.: A21MPV0000052 — 9

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	3/16 X 5 1/2 ROUND TUBE	A513	46
2	10 GA SHEET	A1011	40
3	1 INCH ROD	1045 CD	60



IDS-3 DRIVE ROLLER — Scale: 1/8 — ITSC Ref.: A21MPV0000056 — 10

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APP: 03-124361 INC:
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REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA
7/10/24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

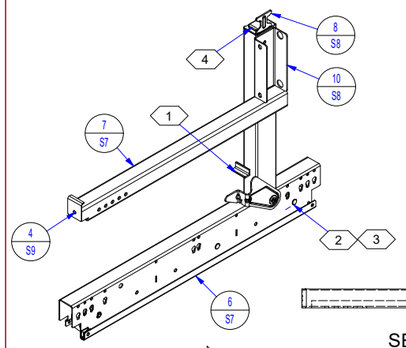
REV.	DATE	DESCRIPTION

DRAFTER: KMR — DATE: 3/2/2023

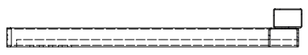
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

IDS-2 POWER SYSTEM

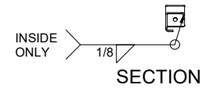
SHEET # S5



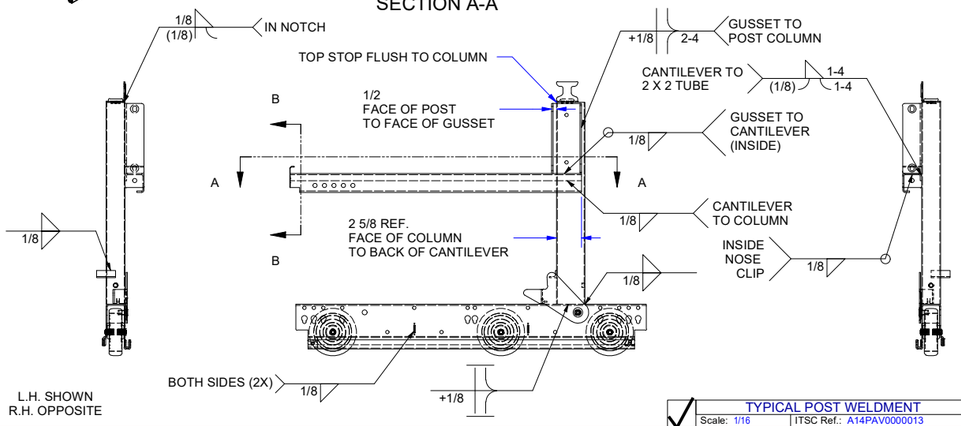
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	1/8 X 3/4 X 3/4 ANGLE	A36	36
2	5 DIAM X 1 1/2 WHEEL	HARD RUBBER	
3	3/8 DIA AXLE ZINC PLATED	1018 CR	32
4	CANTILEVER REST	ZYTEL	



SECTION A-A



SECTION B-B



TYPICAL POST WELDMENT 1

Scale: 1/16 | ITSC Ref.: A14PAV0000013

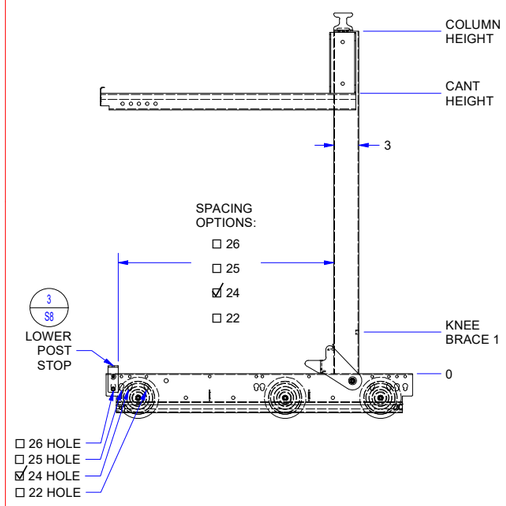
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 3 X 2 RECTANGULAR TUBE	A500 GR B	46

SEE S7 FOR TYP WELD DETAILS AND ADDITIONAL NOTES

LOWER POST STOP IS MOVED FOR DIFFERING SPACING CONFIGURATIONS

SEE SHEET S20 FOR 10" RISE DIMENSIONS

SEE SHEET S21 FOR 12" RISE DIMENSIONS

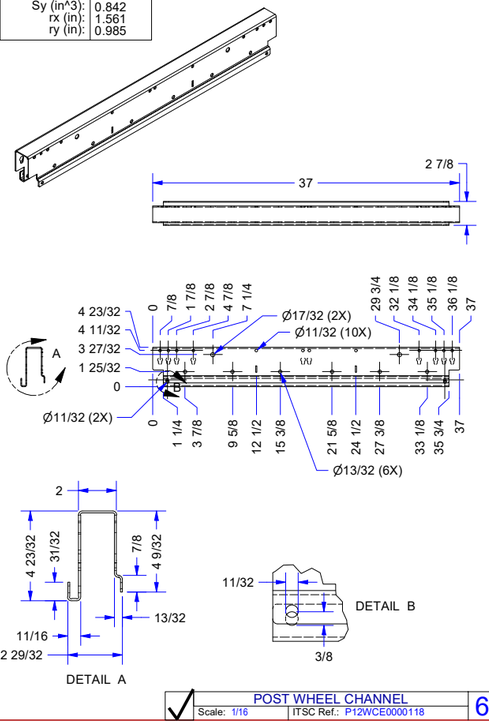


POST - SINGLE KNEE BRACE 3" COLUMN 2

Scale: 7/128 | ITSC Ref.: A14PAV0000020

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA COIL	A1011	40

SECTION PROPERTIES	
AREA (in^2):	1.238
Ix (in^4):	3.019
Iy (in^4):	1.201
Sx (in^3):	1.371
Sy (in^3):	0.842
rx (in):	1.561
ry (in):	0.985



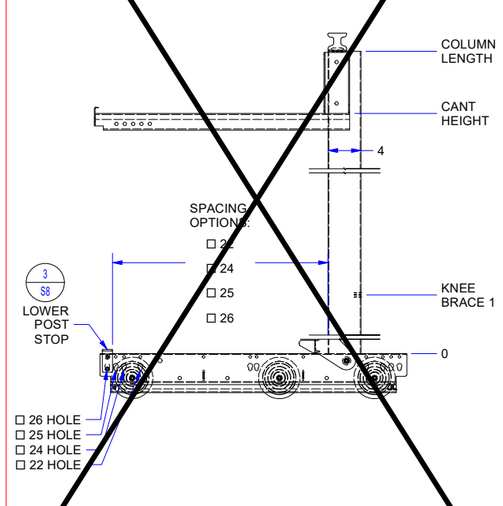
POST WHEEL CHANNEL 6

Scale: 1/16 | ITSC Ref.: P12WCE0000118

SEE S7 FOR TYP WELD DETAILS AND ADDITIONAL NOTES

SEE SHEET S20 FOR 10" RISE DIMENSIONS

SEE SHEET S21 FOR 12" RISE DIMENSIONS

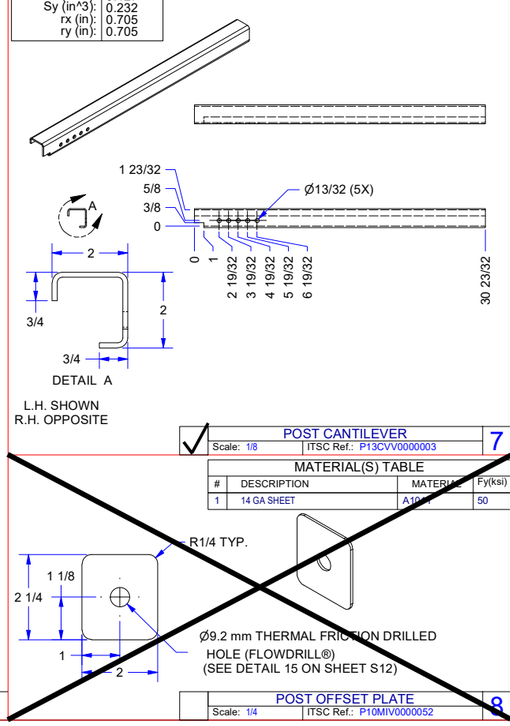


POST - SINGLE KNEE BRACE 4" COLUMN 3

Scale: 7/128 | ITSC Ref.: A14PAV0000072

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	10 GA COIL	A1011	40

SECTION PROPERTIES	
AREA (in^2):	0.605
Ix (in^4):	0.301
Iy (in^4):	0.301
Sx (in^3):	0.427
Sy (in^3):	0.232
rx (in):	0.705
ry (in):	0.705



POST CANTILEVER 7

Scale: 1/8 | ITSC Ref.: P13CVV0000003

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA SHEET	A1011	50

POST OFFSET PLATE 8

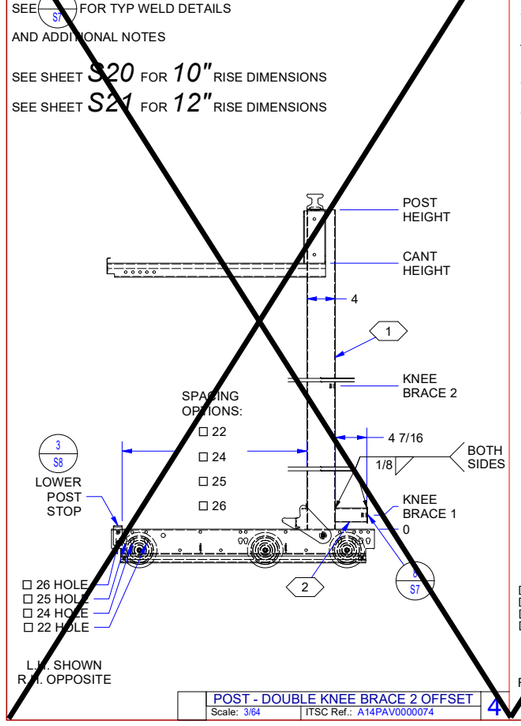
Scale: 1/4 | ITSC Ref.: P10MIV0000052

SEE S7 FOR TYP WELD DETAILS AND ADDITIONAL NOTES

SEE SHEET S20 FOR 10" RISE DIMENSIONS

SEE SHEET S21 FOR 12" RISE DIMENSIONS

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 4 X 2 RECTANGULAR TUBE	A500 GR B	46
2	14 GA X 2 X 2 SQUARE TUBE	A500 GR B	46



POST - DOUBLE KNEE BRACE 2 OFFSET 4

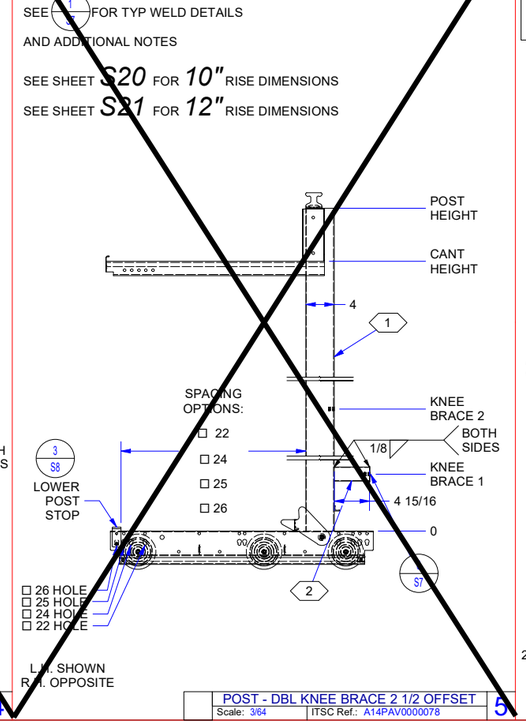
Scale: 3/64 | ITSC Ref.: A14PAV0000074

SEE S7 FOR TYP WELD DETAILS AND ADDITIONAL NOTES

SEE SHEET S20 FOR 10" RISE DIMENSIONS

SEE SHEET S21 FOR 12" RISE DIMENSIONS

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 4 X 2 RECTANGULAR TUBE	A500 GR B	46
2	14 GA X 2 X 2 SQUARE TUBE	A500 GR B	46



POST - DBL KNEE BRACE 2 1/2 OFFSET 5

Scale: 3/64 | ITSC Ref.: A14PAV0000078

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
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REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA

7/10/24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121254 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 1/11/2024

DSA PC STAMP HERE

REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA

1/8/2024

IRWIN VERSATRACT 2022 CBC
PRE-CHECK DRAWINGS: 02-121254
FILE: PC-ITSC APP ID:

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

DRAFTER: KMR DATE: 3/2/2023

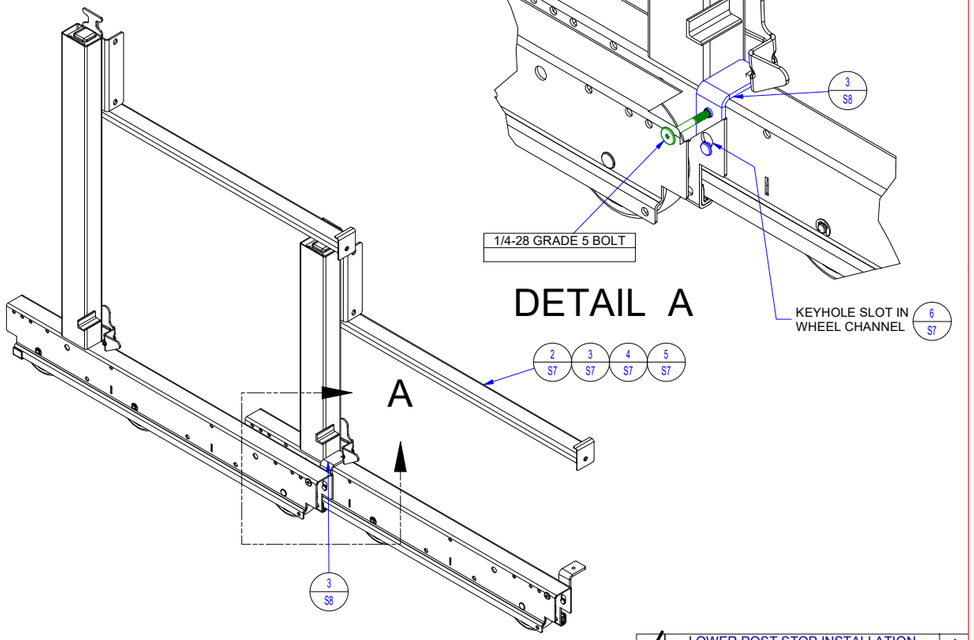
Irwin.

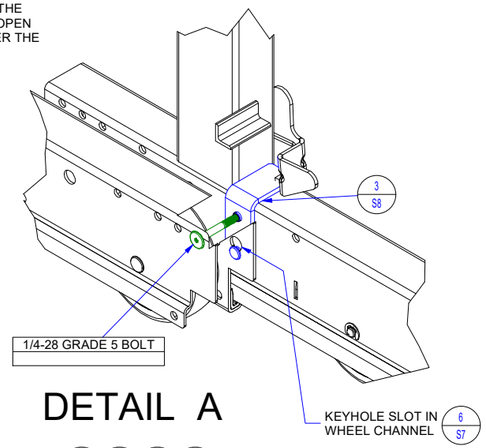
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

POST ASSEMBLIES

SHEET # S7

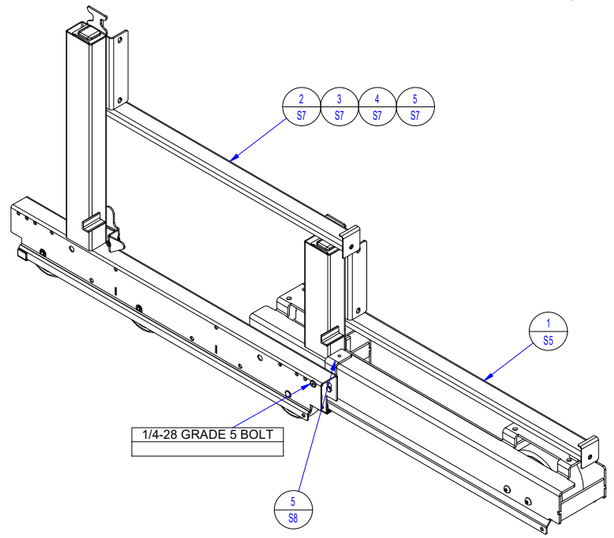
THE LOWER POST STOP SETS THE SPACING OF THE BLEACHER. THE POST PULLS AGAINST THE LOWER POST STOP OF THE NEXT POST TO OPEN THE BLEACHER. THE ROW LOCK LOCKS OVER THE LOWER POST STOP IN ORDER TO PREVENT CLOSING IN THE OPEN POSITION.





LOWER POST STOP INSTALLATION — Scale: 5/64 — ITSC Ref.: N/A — 1

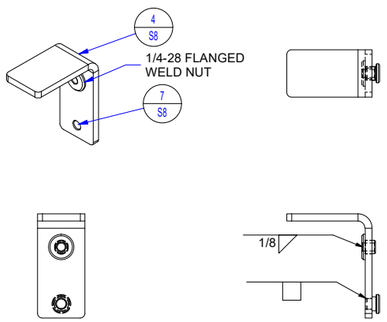
THE IDS LOWER POST STOP IS USED ON THE POST BEHIND AN IDS POST. THIS LOWER POST STOP IS TALLER TO PASS OVER THE TALLER IDS CHANNEL.



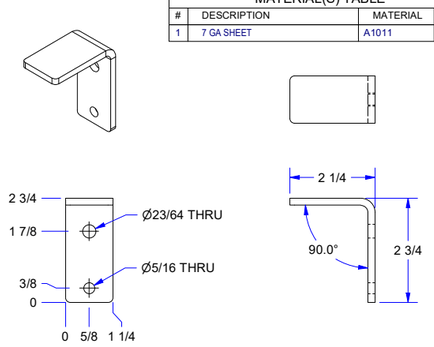
IDS LOWER POST STOP INSTALLATION — Scale: 5/64 — ITSC Ref.: N/A — 2

MATERIAL(S) TABLE

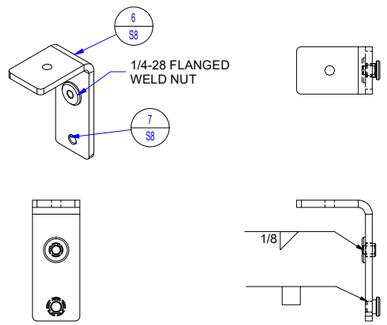
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40



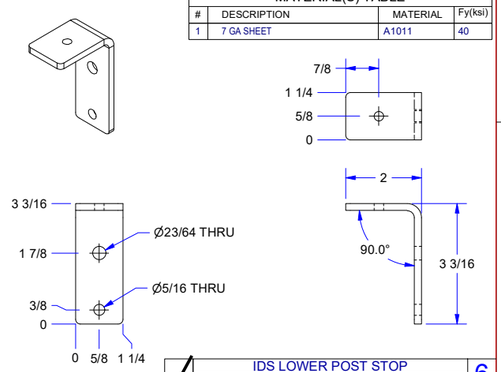
LOWER POST STOP WELDMENT — Scale: 1/4 — ITSC Ref.: A10MIV0000017 — 3



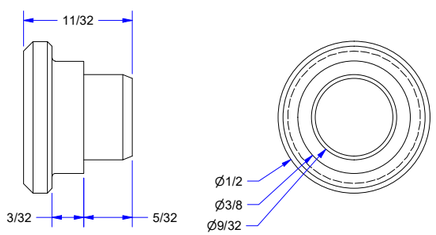
LOWER POST STOP — Scale: 1/4 — ITSC Ref.: P10MIV0000016 — 4



IDS LOWER POST STOP WELDMENT — Scale: 1/4 — ITSC Ref.: A10MIV0000019 — 5



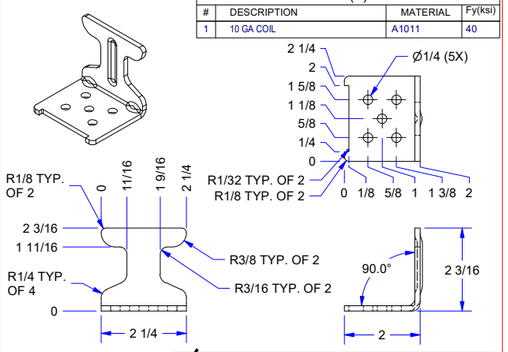
IDS LOWER POST STOP — Scale: 1/4 — ITSC Ref.: P10MIV0000020 — 6



LOWER STOP RIVET — Scale: 2 — ITSC Ref.: P03MSV0009581 — 7

MATERIAL(S) TABLE

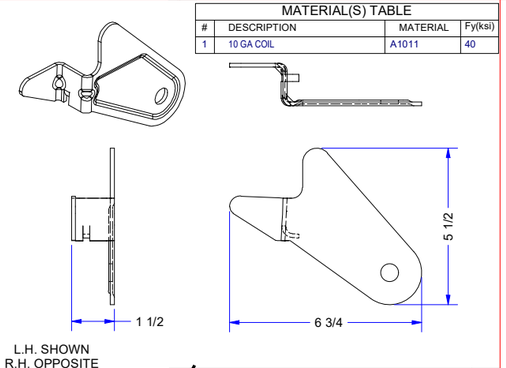
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	10 GA COIL	A1011	40



TOP STOP — Scale: 1/4 — ITSC Ref.: P10MIV0000006 — 8

MATERIAL(S) TABLE

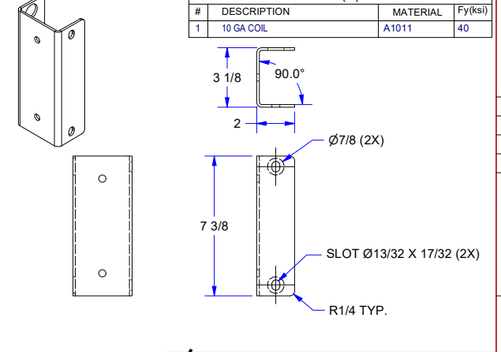
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	10 GA COIL	A1011	40



ROW LOCK — Scale: 1/8 — ITSC Ref.: P10MIV0000013 — 9

MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	10 GA COIL	A1011	40



POST GUSSET — Scale: 1/8 — ITSC Ref.: P10MIV0000001 — 10

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APP: 03-124361 INC:
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REGISTERED PROFESSIONAL ENGINEER — MICHAEL MENDON — S 2377 — STRUCTURAL — STATE OF CALIFORNIA
7/10/24

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IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER — AMBER DELLANGELO — S 6402 — STRUCTURAL — STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

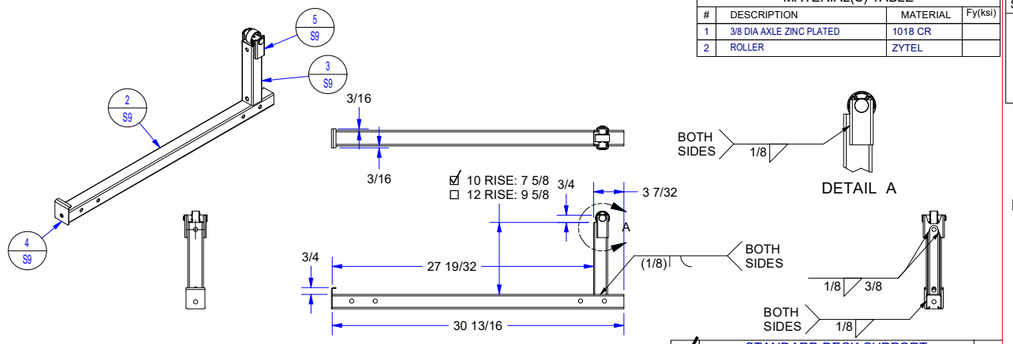
REV.	DATE	DESCRIPTION

DRAFTER: KMR — DATE: 3/2/2023

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

POST ASSEMBLIES CONT.

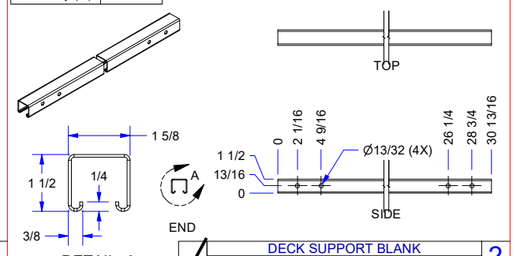
SHEET # **S8**



MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	3/8 DIA AXLE ZINC PLATED	1018 CR	
2	ROLLER	ZYTEL	

STANDARD DECK SUPPORT — 1

Scale: 1/16 | ITSC Ref.: A18DAV0000007

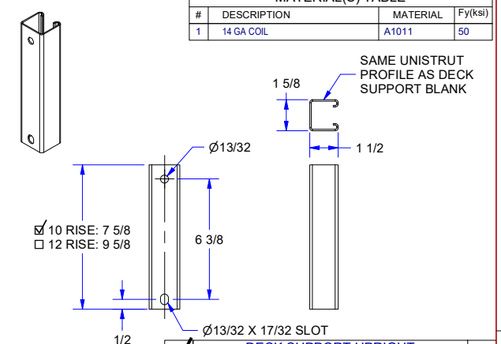


SECTION PROPERTIES	
AREA (in^2):	0.384
Ix (in^4):	0.115
Iy (in^4):	0.166
Sx (in^3):	0.175
Sy (in^3):	0.204
rx (in):	0.547
ry (in):	0.657

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA COIL	A1011	50

DECK SUPPORT BLANK — 2

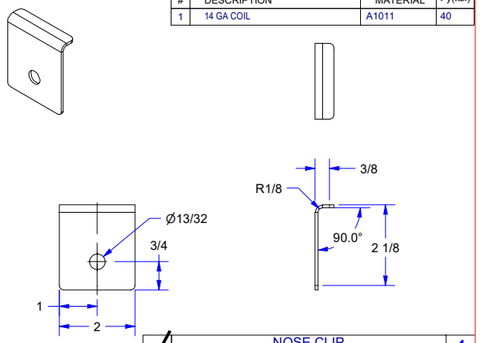
Scale: 1/16 | ITSC Ref.: P18DAV0000001



MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA COIL	A1011	50

DECK SUPPORT UPRIGHT — 3

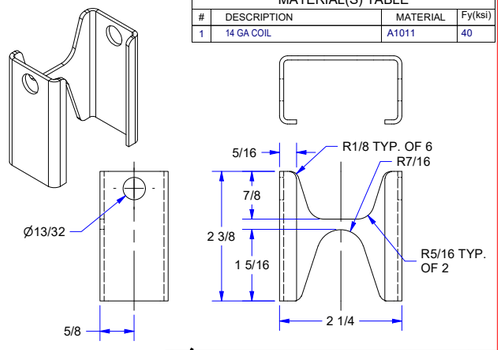
Scale: 1/8 | ITSC Ref.: P18DAV0000002



MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA COIL	A1011	40

NOSE CLIP — 4

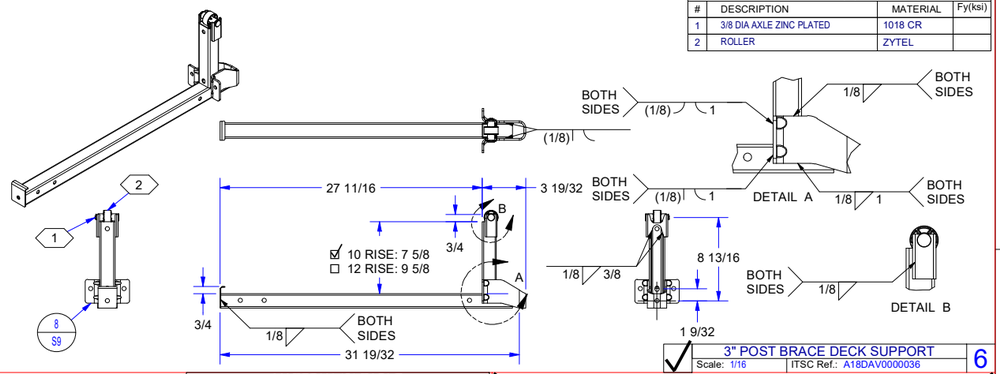
Scale: 1/4 | ITSC Ref.: P18MIV0000003



MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA COIL	A1011	40

ROLLER BRACKET — 5

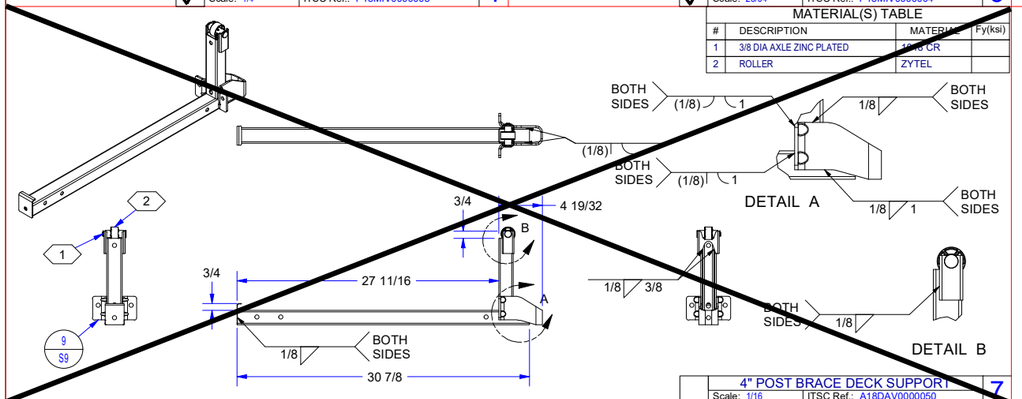
Scale: 23/64 | ITSC Ref.: P18MIV0000004



MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	3/8 DIA AXLE ZINC PLATED	1018 CR	
2	ROLLER	ZYTEL	

3" POST BRACE DECK SUPPORT — 6

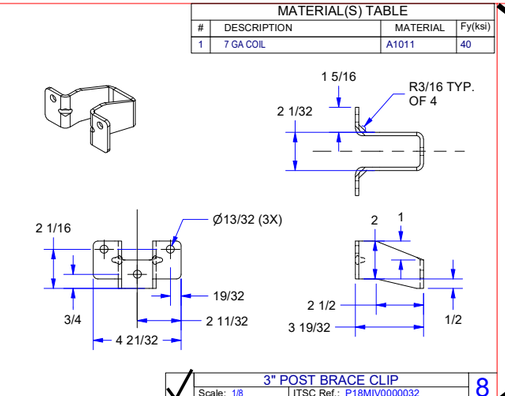
Scale: 1/16 | ITSC Ref.: A18DAV0000036



MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	3/8 DIA AXLE ZINC PLATED	1018 CR	
2	ROLLER	ZYTEL	

4" POST BRACE DECK SUPPORT — 7

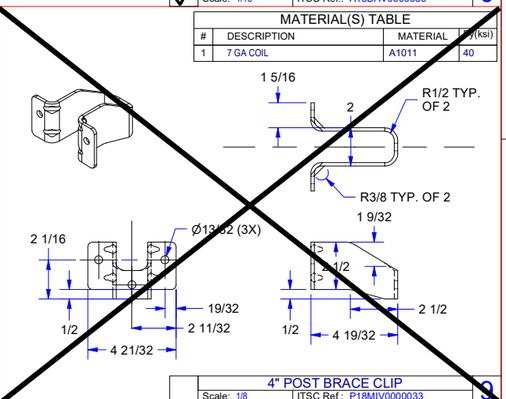
Scale: 1/16 | ITSC Ref.: A18DAV0000050



MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA COIL	A1011	40

3" POST BRACE CLIP — 8

Scale: 1/8 | ITSC Ref.: P18MIV0000032



MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA COIL	A1011	40

4" POST BRACE CLIP — 9

Scale: 1/8 | ITSC Ref.: P18MIV0000033

NOT USED — 10

Scale: | ITSC Ref.:

NOT USED — 11

Scale: | ITSC Ref.:

NOT USED — 12

Scale: | ITSC Ref.:

NOT USED — 13

Scale: | ITSC Ref.:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025

DSA STAMP HERE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA

7/10/24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA

1/8/2024

IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

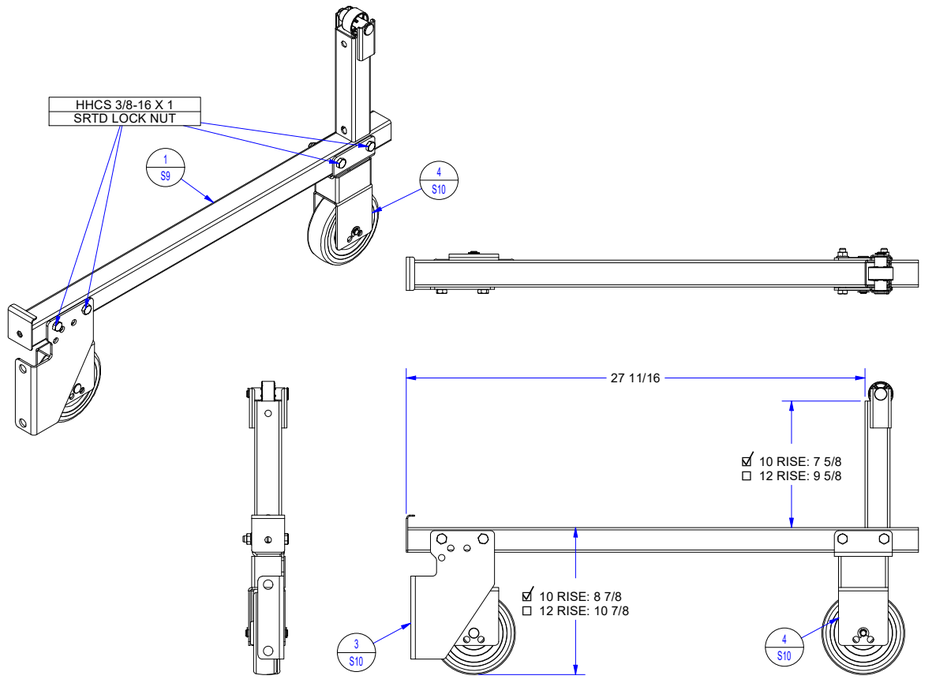
REV.	DATE	DESCRIPTION

DRAFTER: KMR | DATE: 3/2/2023

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

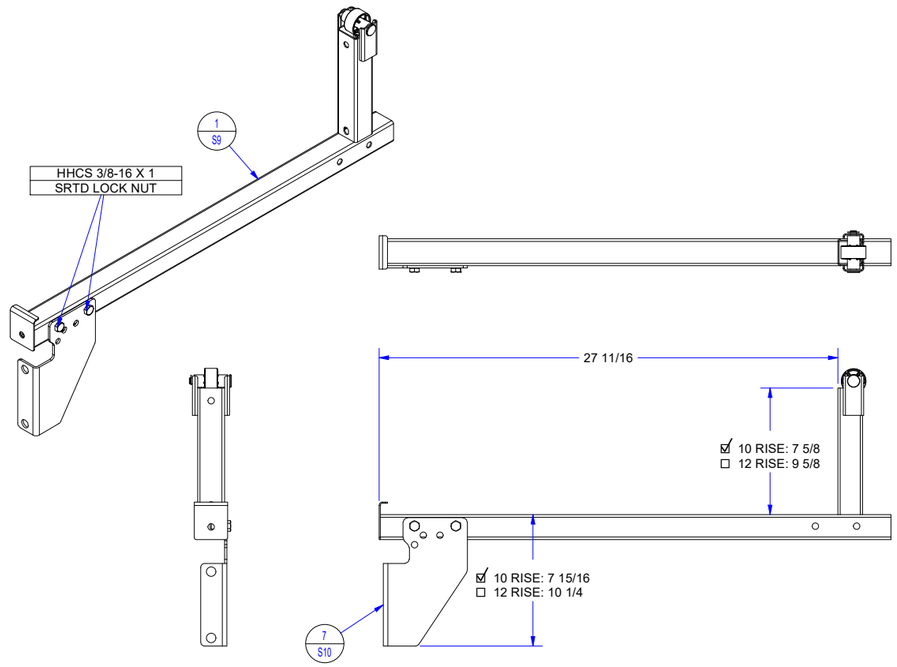
DECK SUPPORTS

SHEET # **S9**



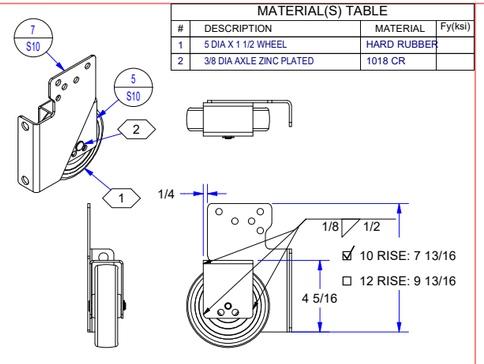
OUTRIGGER DECK SUPPORT — 1

Scale: 7/64 | ITSC Ref.: N/A



DECK SUPPORT W/ SKIRT ATT — 2

Scale: 7/64 | ITSC Ref.: N/A

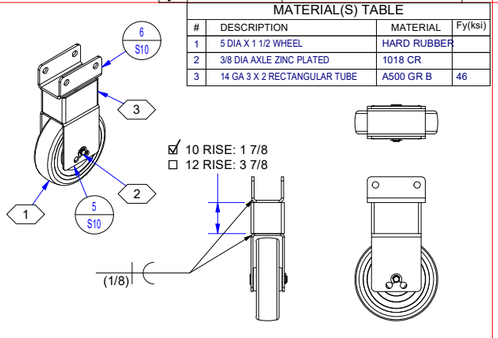


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	5 DIA X 1 1/2 WHEEL	HARD RUBBER	
2	3/8 DIA AXLE ZINC PLATED	1018 CR	

OUTRIGGER ASSEMBLY — 3

Scale: 7/64 | ITSC Ref.: A18MIV0000555

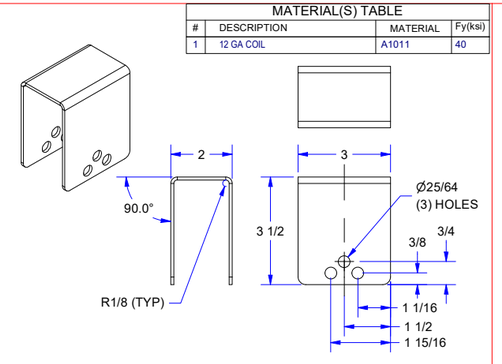


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	5 DIA X 1 1/2 WHEEL	HARD RUBBER	
2	3/8 DIA AXLE ZINC PLATED	1018 CR	
3	14 GA 3 X 2 RECTANGULAR TUBE	A500 GR B	46

REAR OUTRIGGER ATTACHMENT — 4

Scale: 7/64 | ITSC Ref.: A18MIV0000075

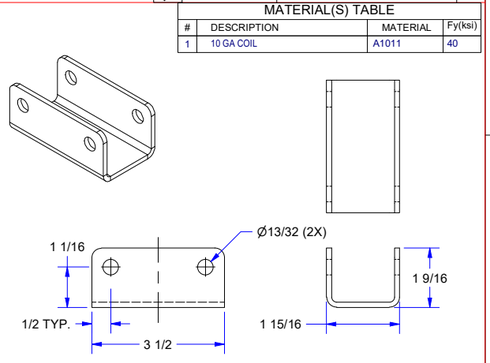


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA COIL	A1011	40

OUTRIGGER WHEEL CHANNEL — 5

Scale: 1/4 | ITSC Ref.: P18MIV0000072

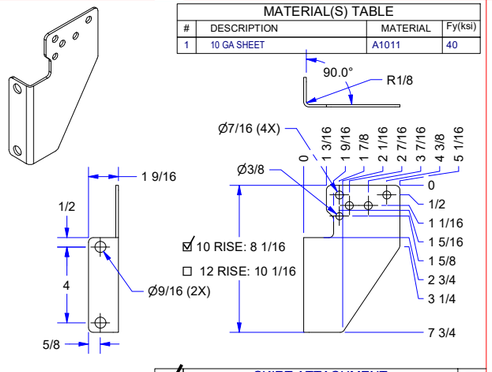


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	10 GA COIL	A1011	40

REAR OUTRIGGER ATTACHMENT — 6

Scale: 1/4 | ITSC Ref.: P18MIV0000073

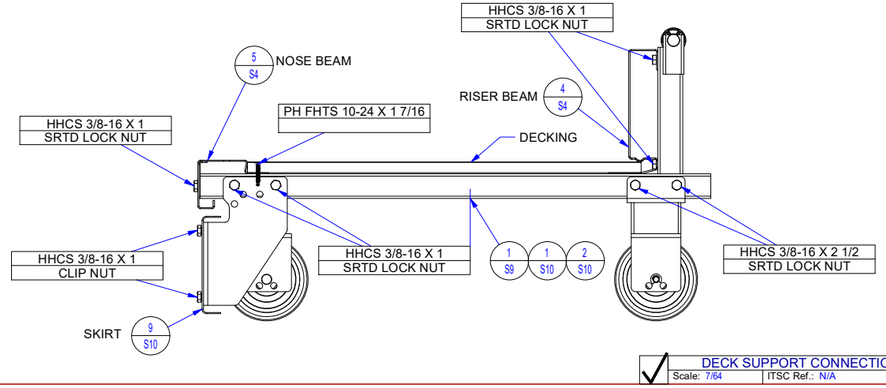


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	10 GA SHEET	A1011	40

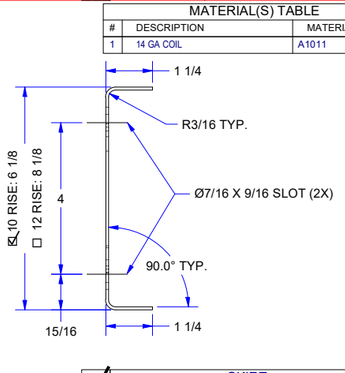
SKIRT ATTACHMENT — 7

Scale: 1/4 | ITSC Ref.: P18MIV0000549



DECK SUPPORT CONNECTIONS — 8

Scale: 7/64 | ITSC Ref.: N/A



MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA COIL	A1011	40

SKIRT — 9

Scale: 1/4 | ITSC Ref.: P44SKV0010385

IDENTIFICATION STAMP
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APP: 03-124361 INC:
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REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA

7/10/24

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DATE: 1/11/2024

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IRWIN VERSATRACT
PRE-CHECK DRAWINGS: 2022 CBC
FILE: PC-ITSC APP ID: 02-121254

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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AMBER DELLANGELO
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STRUCTURAL
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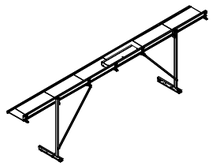
REV.	DATE	DESCRIPTION

DRAFTER: KMR | DATE: 3/2/2023

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

DECK SUPPORTS CONT.

SHEET # S10

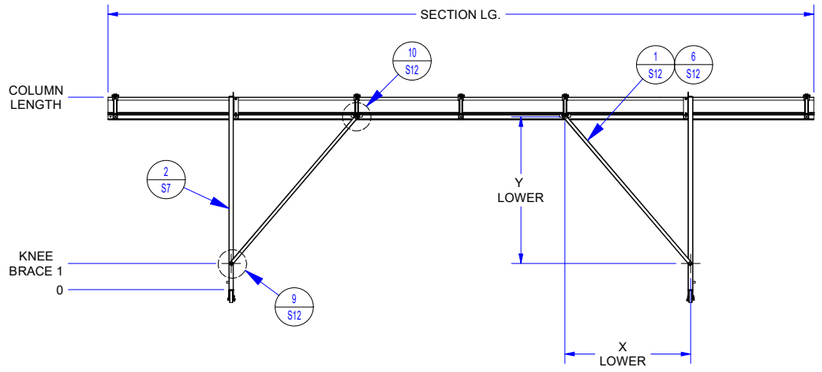


10 RISE: ROWS

☑2, ☑3, ☑4, ☑5, ☑6, ☐7, ☐8, ☐9, ☐10

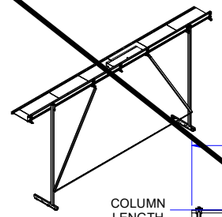
12 RISE: ROWS

☐2, ☐3, ☐4, ☐5, ☐6, ☐7, ☐8, ☐9



* SEE SHEET S20 FOR 10" RISE DIMENSIONS
* SEE SHEET S21 FOR 12" RISE DIMENSIONS

SINGLE KNEE BRACE SECTION — Scale: 1/64 — ITSC Ref.: N/A — 1

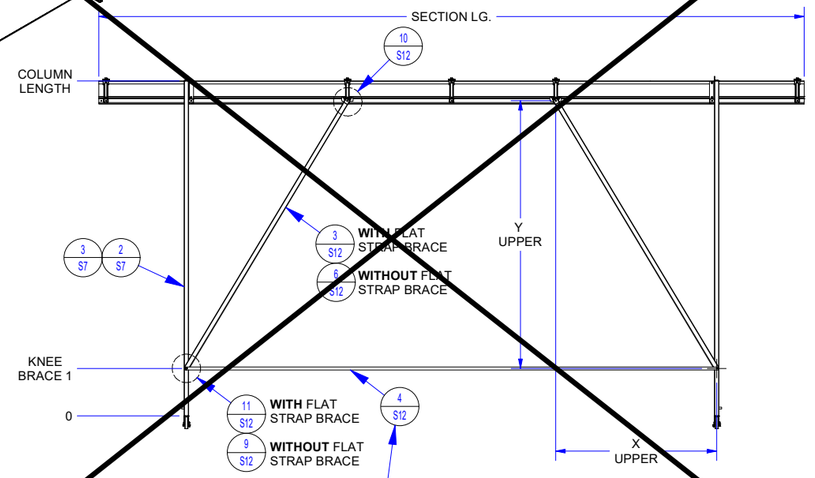


10 RISE: ROWS

☐11, ☐12, ☐13, ☐14, ☐15, ☐16

12 RISE: ROWS

☐10, ☐11, ☐12, ☐13



10 RISE:
SECTION LG. SMALLER THAN 21'-8"
WILL NOT USE THE FLAT STRAP

12 RISE:
SECTION LG. SMALLER THAN 23'-2"
WILL NOT USE THE FLAT STRAP

* SEE SHEET S20 FOR 10" RISE DIMENSIONS
* SEE SHEET S21 FOR 12" RISE DIMENSIONS

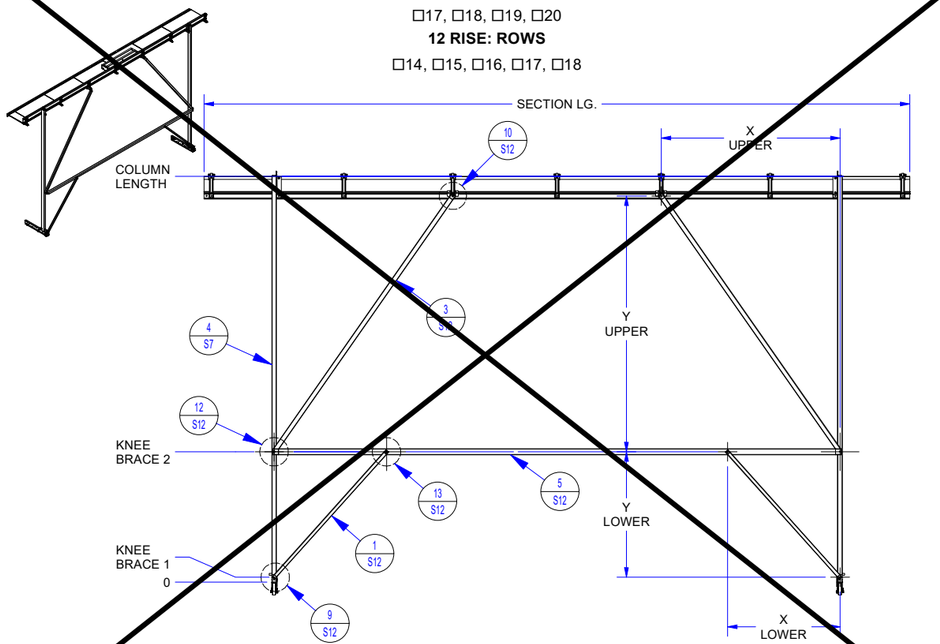
HORIZONTAL FLAT STRAP SECTION — Scale: 1/128 — ITSC Ref.: N/A — 2

10 RISE: ROWS

☐17, ☐18, ☐19, ☐20

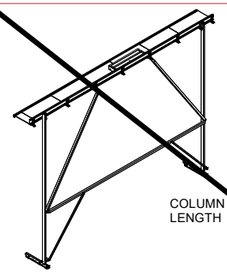
12 RISE: ROWS

☐14, ☐15, ☐16, ☐17, ☐18



* SEE SHEET S20 FOR 10" RISE DIMENSIONS
* SEE SHEET S21 FOR 12" RISE DIMENSIONS

HORIZONTAL W/ 2" KNEE BRACE — Scale: 1/128 — ITSC Ref.: N/A — 3



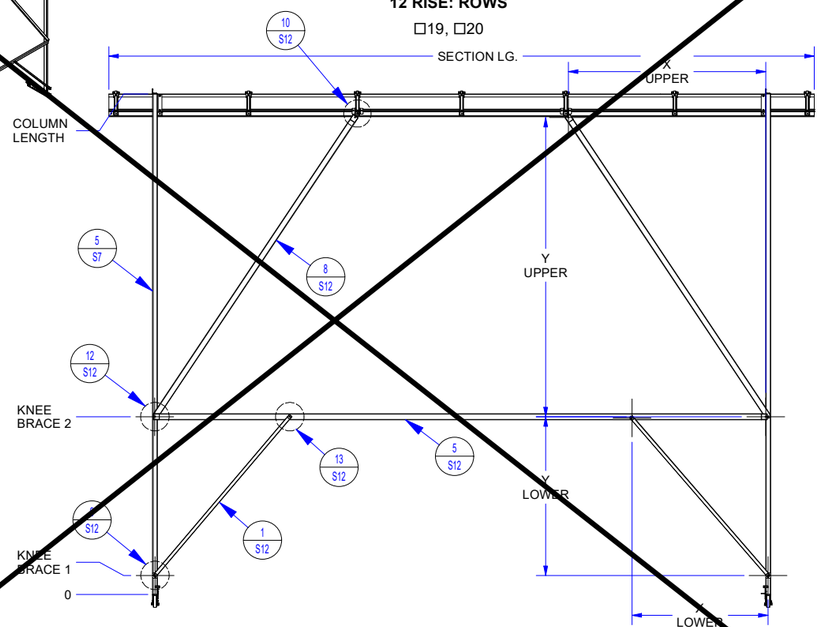
10 RISE: ROWS

☐21, ☐22, ☐23, ☐24*

** ROW 24 ONLY AVAILABLE FOR SECTION LG. < 25'-0" **

12 RISE: ROWS

☐19, ☐20



* SEE SHEET S20 FOR 10" RISE DIMENSIONS
* SEE SHEET S21 FOR 12" RISE DIMENSIONS

HORIZONTAL W/ 2 1/2" KNEE BRACE — Scale: 1/64 — ITSC Ref.: N/A — 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025
DSA STAMP HERE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA
7/10/24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121254 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 1/11/2024
DSA PC STAMP HERE

IRWIN VERSATRACT
PRE-CHECK DRAWINGS: 2022 CBC
FILE: PC-ITSC APP ID: 02-121254
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

DRAFTER: KMR — DATE: 3/2/2023

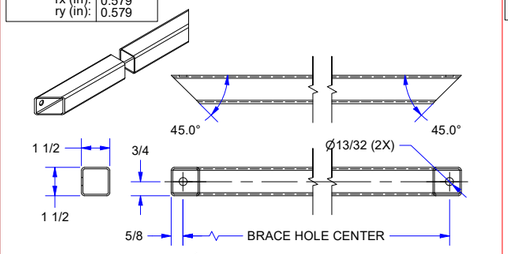
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

BRACING

SHEET # S11

SECTION PROPERTIES	
AREA (in^2):	0.470
Ix (in^4):	0.158
Iy (in^4):	0.158
Sx (in^3):	0.211
Sy (in^3):	0.211
rx (in):	0.579
ry (in):	0.579

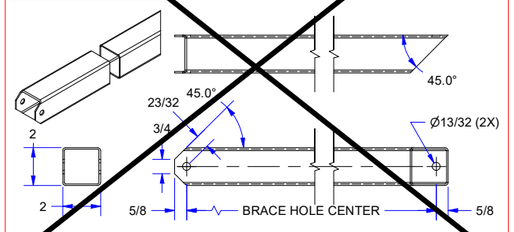
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 1 1/2 X 1 1/2 SQUARE TUBE	A500 GR B	46



1 1/2 X 1 1/2 TUBE KNEE BRACE — Scale: 1/8 — ITSC Ref.: P20DBV0000001 — 1

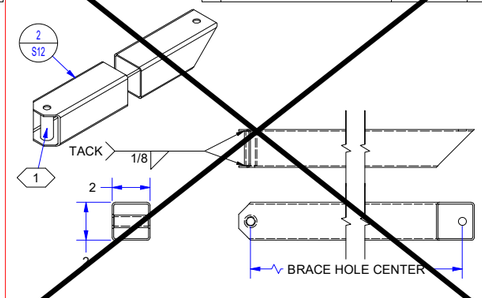
SECTION PROPERTIES	
AREA (in^2):	0.636
Ix (in^4):	0.391
Iy (in^4):	0.391
Sx (in^3):	0.391
Sy (in^3):	0.391
rx (in):	0.783
ry (in):	0.783

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 2 X 2 SQUARE TUBE	A500 GR B	46



2 X 2 TUBE KNEE BRACE — Scale: 1/8 — ITSC Ref.: P20MBV0000021 — 2

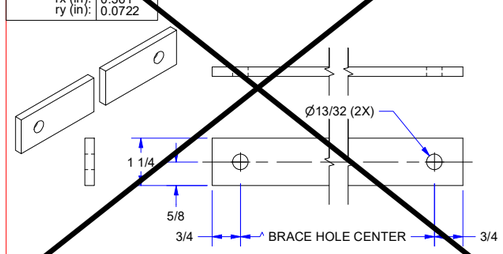
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	SCHEDULE 40 PIPE 3/8	A53	30



2 X 2 TUBE KNEE BRACE WELDMENT — Scale: 1/8 — ITSC Ref.: N/A — 3

SECTION PROPERTIES	
AREA (in^2):	0.313
Ix (in^4):	0.0407
Iy (in^4):	0.00163
Sx (in^3):	0.0651
Sy (in^3):	0.0130
rx (in):	0.361
ry (in):	0.0722

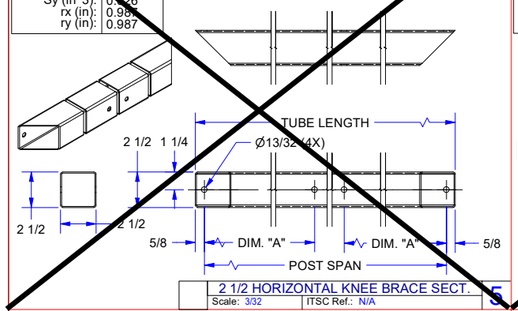
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	FLAT BAR 1/4 X 1 1/4	A36	36



1 1/4 FLAT BAR HORIZONTAL BRACING — Scale: 1/4 — ITSC Ref.: N/A — 4

SECTION PROPERTIES	
AREA (in^2):	0.802
Ix (in^4):	0.782
Iy (in^4):	0.782
Sx (in^3):	0.626
Sy (in^3):	0.626
rx (in):	0.987
ry (in):	0.987

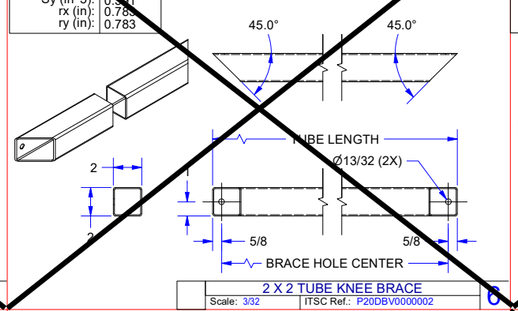
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 2 1/2 X 2 1/2 SQUARE TUBE	A500 GR B	46



2 1/2 HORIZONTAL KNEE BRACE SECT. — Scale: 3/32 — ITSC Ref.: N/A — 5

SECTION PROPERTIES	
AREA (in^2):	0.636
Ix (in^4):	0.391
Iy (in^4):	0.391
Sx (in^3):	0.391
Sy (in^3):	0.391
rx (in):	0.783
ry (in):	0.783

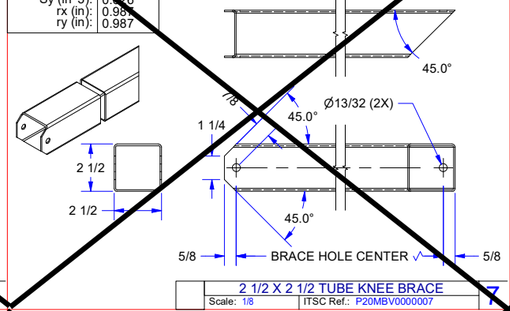
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 2 X 2 SQUARE TUBE	A500 GR B	46



2 X 2 TUBE KNEE BRACE — Scale: 3/32 — ITSC Ref.: P20DBV0000002 — 6

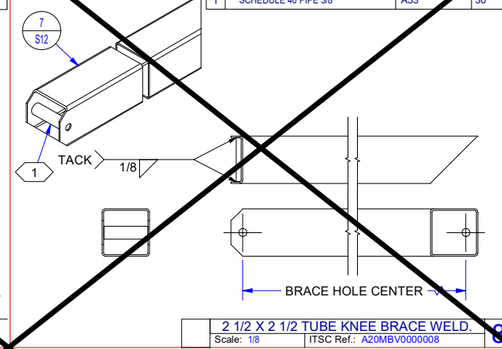
SECTION PROPERTIES	
AREA (in^2):	0.802
Ix (in^4):	0.782
Iy (in^4):	0.782
Sx (in^3):	0.626
Sy (in^3):	0.626
rx (in):	0.987
ry (in):	0.987

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 2 1/2 X 2 1/2 SQUARE TUBE	A500 GR B	46

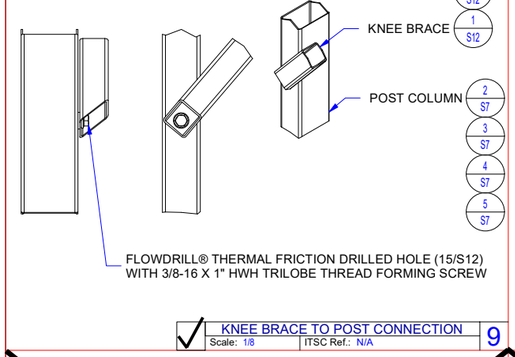


2 1/2 X 2 1/2 TUBE KNEE BRACE — Scale: 1/8 — ITSC Ref.: P20MBV0000007 — 7

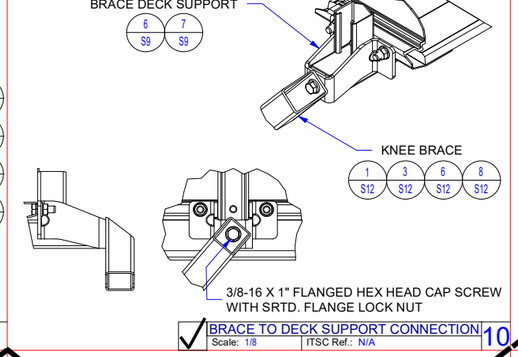
MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	SCHEDULE 40 PIPE 3/8	A53	30



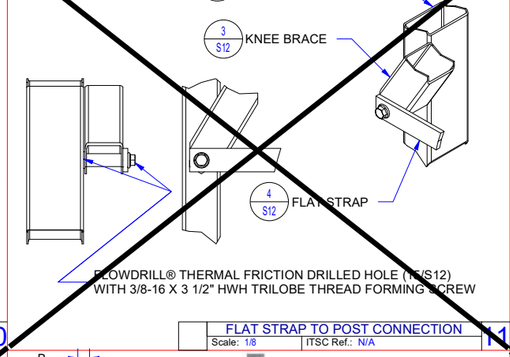
2 1/2 X 2 1/2 TUBE KNEE BRACE WELD. — Scale: 1/8 — ITSC Ref.: A20MBV0000008 — 8



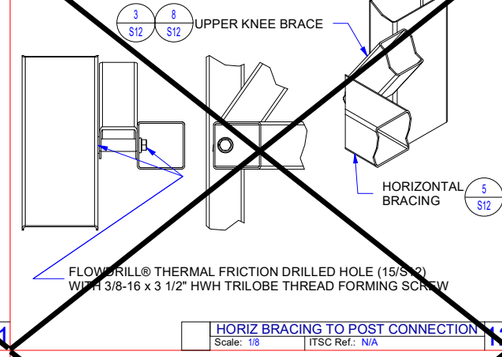
KNEE BRACE TO POST CONNECTION — Scale: 1/8 — ITSC Ref.: N/A — 9



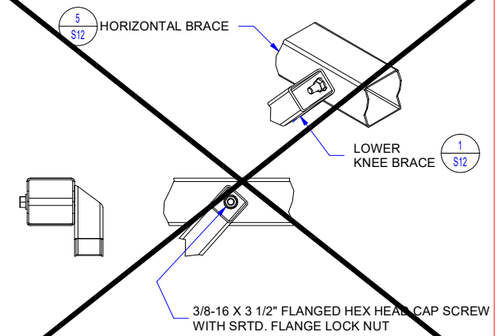
BRACE TO DECK SUPPORT CONNECTION — Scale: 1/8 — ITSC Ref.: N/A — 10



FLAT STRAP TO POST CONNECTION — Scale: 1/8 — ITSC Ref.: N/A — 11

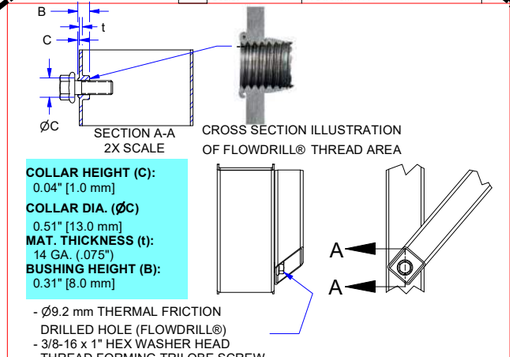


HORIZ BRACING TO POST CONNECTION — Scale: 1/8 — ITSC Ref.: N/A — 12



HORIZ TO KNEE BRACE CONNECTION — Scale: 1/8 — ITSC Ref.: N/A — 13

NOT USED — Scale: — ITSC Ref.: — 14



FLOW DRILL BRACE CONNECTION — Scale: 1/8 — ITSC Ref.: N/A — 15

NOT USED — Scale: — ITSC Ref.: — 16

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025
DSA STAMP HERE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA
7/10/24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121254 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 1/11/2024
DSA PC STAMP HERE

IRWIN VERSATRACT
PRE-CHECK DRAWINGS: 2022 CBC
FILE: PC-ITSC APP ID: 02-121254

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

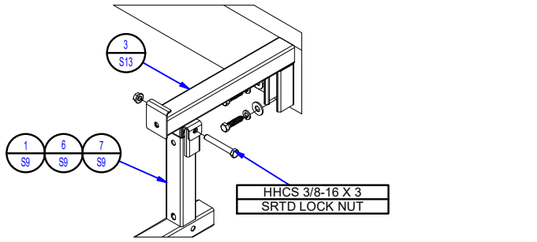
DRAFTER: KMR — DATE: 3/2/2023

Irwin.

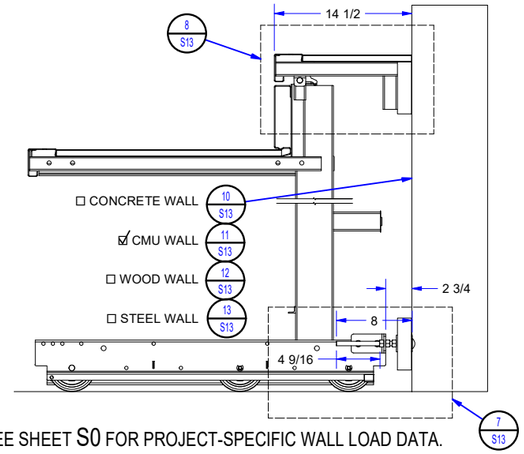
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

BRACING CONT.

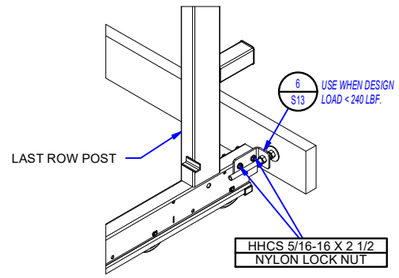
SHEET # S12



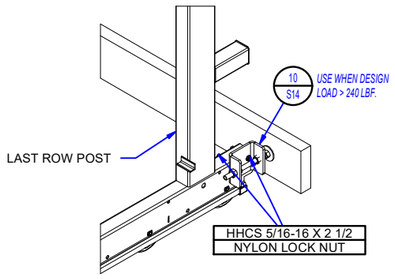
UPPER WALL ATTACHMENT



* SEE SHEET S0 FOR PROJECT-SPECIFIC WALL LOAD DATA.
* SEE SHEET S22 FOR 10" RISE GENERAL WALL LOAD DATA
* SEE SHEET S23 FOR 12" RISE GENERAL WALL LOAD DATA



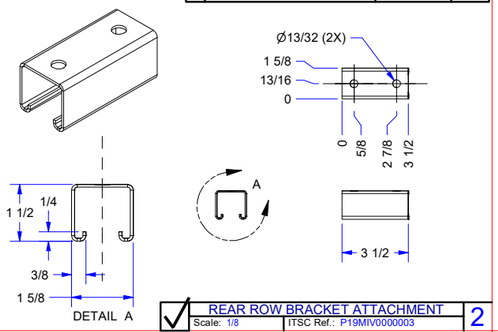
☐ LOWER WALL ATTACHMENT - STANDARD



☑ LOWER WALL ATTACHMENT - TYPE 2

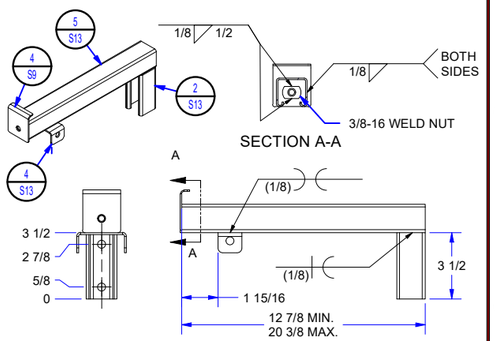
✓ WALL ATTACHMENT DETAILS — Scale: N/A — ITSC Ref.: N/A — 1

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	PRESSURE TREATED 2X6	SOUTHERN YELLOW PINE	



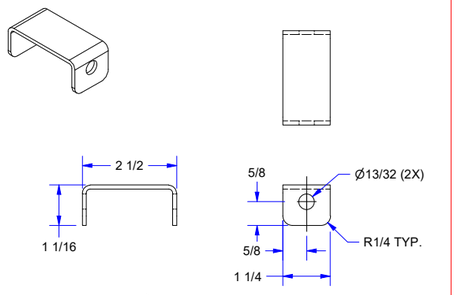
✓ REAR ROW BRACKET ATTACHMENT — Scale: 1/8 — ITSC Ref.: P19MIV0000003 — 2

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA COIL	A1011	50



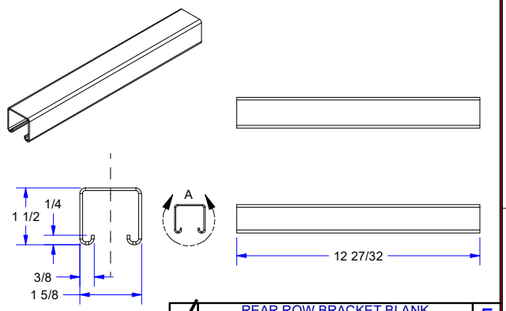
✓ REAR ROW BRACKET — Scale: 1/8 — ITSC Ref.: A19RBV0000001 — 3

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA COIL	A1011	40



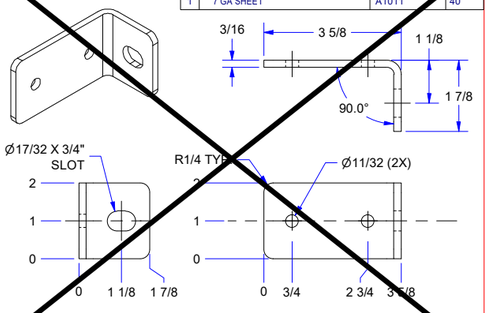
✓ REAR ROW BRACKET ATTACHMENT CLIP — Scale: 1/4 — ITSC Ref.: P02MIV0003575 — 4

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	PRESSURE TREATED 2X6	SOUTHERN YELLOW PINE	



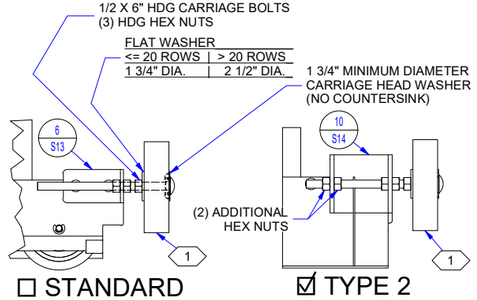
✓ REAR ROW BRACKET BLANK — Scale: 1/8 — ITSC Ref.: P19BRC0000005 — 5

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40



✓ LOWER POST BRACKET — Scale: 1/4 — ITSC Ref.: P10MIV0000010 — 6

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	PRESSURE TREATED 2X6	SOUTHERN YELLOW PINE	

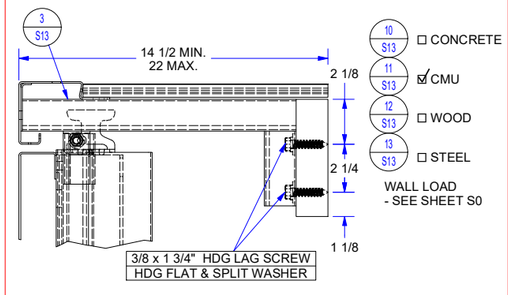


☐ STANDARD ☑ TYPE 2

WALL LOAD
- SEE SHEET S0

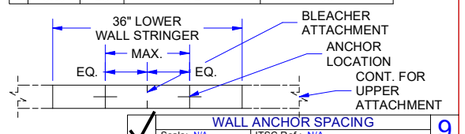
✓ LOWER WALL ATTACHMENT DETAIL — Scale: 9/64 — ITSC Ref.: N/A — 7

MATERIAL(S) TABLE			
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	PRESSURE TREATED 2X6	SOUTHERN YELLOW PINE	



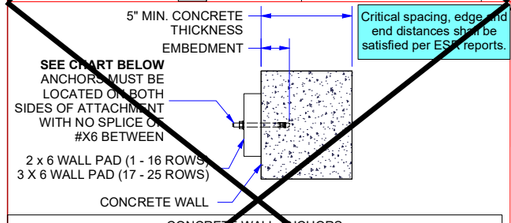
✓ UPPER WALL ATTACHMENT DETAIL — Scale: 9/64 — ITSC Ref.: N/A — 8

Wall Attachment Anchor Spacing (Concrete and CMU Walls)				
-	Stringer	# of Rows	Lower Connection Max Anchor Spacing (in.)	Upper Connection Max Anchor Spacing (in.)
✓	2X6	1-9	32	32
	2X6	10	28	28
	2X6	11	26	26
	2X6	12	24	24
	2X6	13	22	22
	2X6	14	20	20
	2X6	15	18	18
	2X6	16	16	16
	3X6	17-24	32	32
	3X6	25	n/a	30



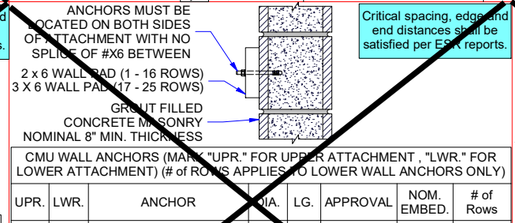
✓ WALL ANCHOR SPACING — Scale: N/A — ITSC Ref.: N/A — 9

CONCRETE WALL ANCHORS						
-	ANCHOR	DIA.	LENGTH	APPROVAL	NOM. EMBED.	# of Rows#
	HILTI KWIK BOLT TZ2	3/8	5	ESR-4266	3 in	1-24
	DEWALT Power Stud+ SD1	3/8	5	ESR-2818	2 3/8 in	1-14
	HILTI KWIK KH-EZ	3/8	5	ESR-3027	1 1/4 in	1-24
	DEWALT SCREW-BOLT+	3/8	5	ESR-3889	2 1/2	1-14



SEE 9/S13 FOR MAX ANCHOR SPACING

✓ CONCRETE WALL ATTACHMENT — Scale: N/A — ITSC Ref.: N/A — 10



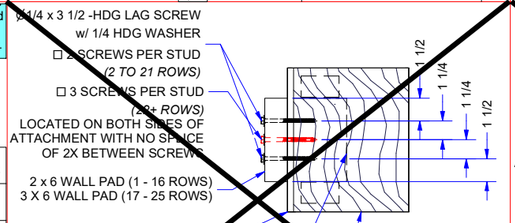
CMU WALL ANCHORS (MARK "UPR." FOR UPPER ATTACHMENT , "LWR." FOR LOWER ATTACHMENT) (# of ROWS APPLIES TO LOWER WALL ANCHORS ONLY)

UPR.	LWR.	ANCHOR	DIA.	LG.	APPROVAL	NOM. EMBED.	# of Rows
		HILTI KWIK BOLT TZ2	3/8	5	ESR-4561	1 7/8 in	1-6*
		HILTI KWIK BOLT TZ2	5/8	7	ESR-4561	3 1/4 in	7-13*
		HILTI KWIK BOLT TZ2	3/4	7	ESR-4561	4 in	14-18**
✓	✓	HILTI KWIK KH-EZ	3/8	5	ESR-3056	3 1/4 in	1-14*
		DEWALT SCREW-BOLT+	3/8	5	ESR-4057	3 1/4 in	1-16*

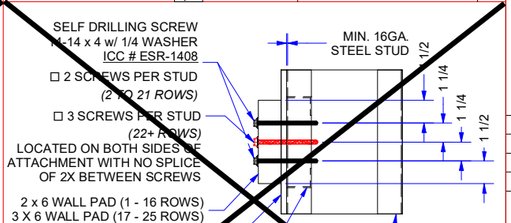
* MAY REQUIRE ADDITIONAL ANCHORS ABOVE THIS ROW
** FOR MORE THAN 18 ROWS, FLOOR ATTACH PER **SHEET S14**

SEE 9/S13 FOR MAX ANCHOR SPACING

✓ CMU WALL ATTACHMENT — Scale: N/A — ITSC Ref.: N/A — 11



✓ WOOD STUD WALL ATTACHMENT — Scale: N/A — ITSC Ref.: N/A — 12



✓ STEEL STUD WALL ATTACHMENT — Scale: N/A — ITSC Ref.: N/A — 13

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STATE OF CALIFORNIA

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1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

DRAFTER: KMR — DATE: 3/2/2023

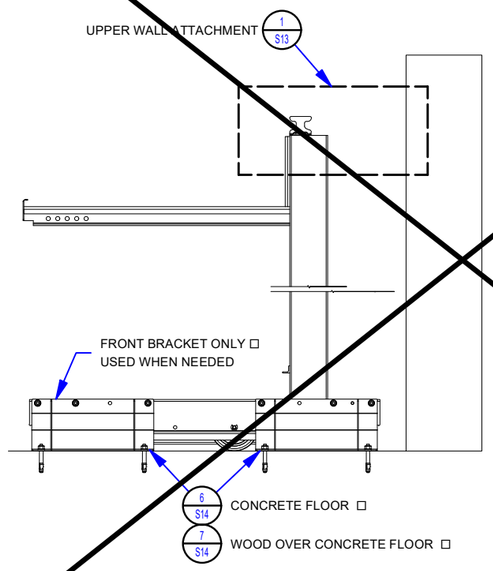
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

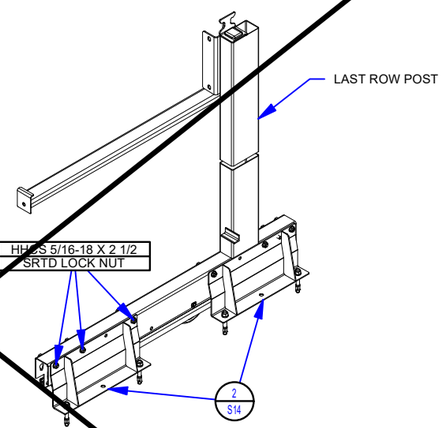
IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

WALL ATTACHMENT DETAILS

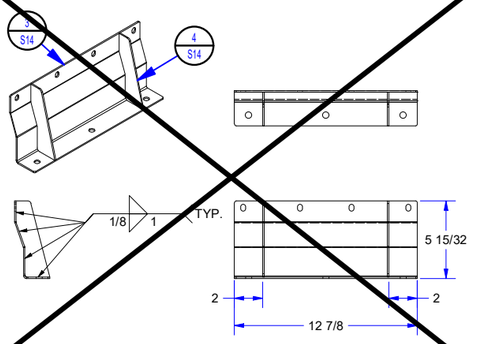
SHEET # **S13**





R.H. SHOWN
L.H. OPPOSITE

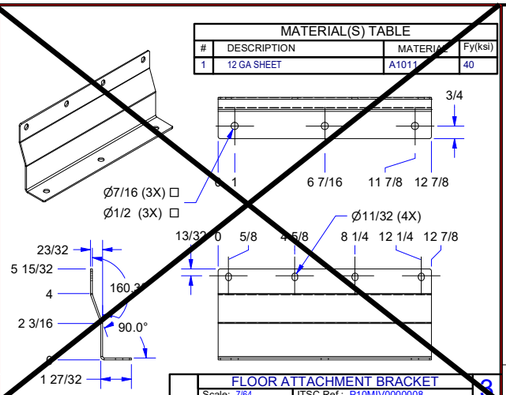
FLOOR ATTACHMENT DETAILS — Scale: — ITSC Ref.: N/A — 1



FLOOR ATTACHMENT WELDMENT — Scale: 3/32 — ITSC Ref.: A10MIV0000009 — 2

MATERIAL(S) TABLE

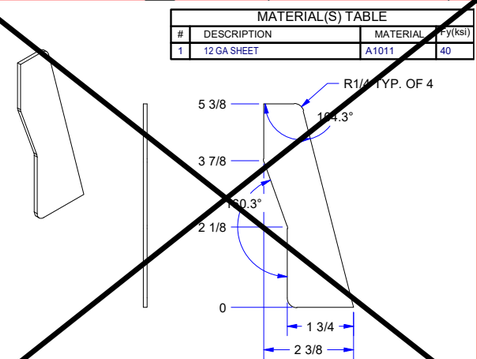
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA SHEET	A1011	40



FLOOR ATTACHMENT BRACKET — Scale: 7/64 — ITSC Ref.: P10MIV0000008 — 3

MATERIAL(S) TABLE

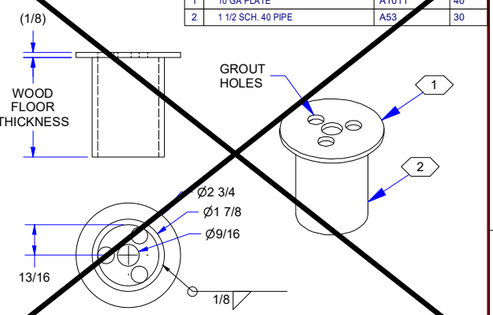
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA SHEET	A1011	40



FLOOR ATTACHMENT GUSSET — Scale: 1/8 — ITSC Ref.: P10MIV0000007 — 4

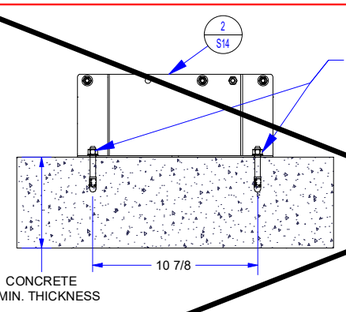
MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	10 GA PLATE	A1011	40
2	1 1/2 SCH. 40 PIPE	A53	30



PIPE SPACER WELDMENT — Scale: 1/2 — ITSC Ref.: N/A — 5

Critical spacing, edge and end distances shall be satisfied per ESR reports.

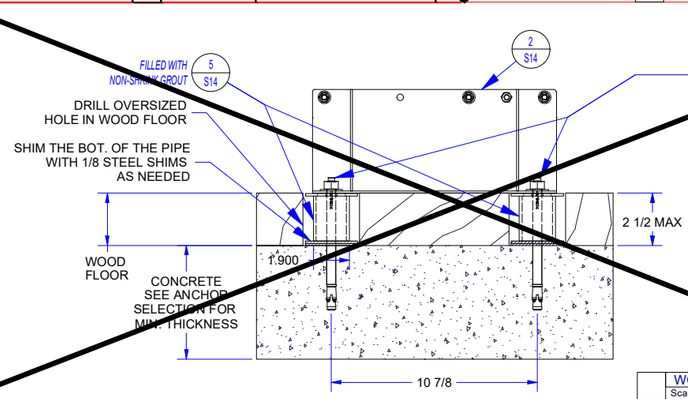


CONCRETE FLOOR ANCHORS

-	ANCHOR	DIA.	LENGTH	APPROVAL	NOM. EMBEDMENT	# of Rows
	HILTI KWIK BOLT TZ2	3/8	5	ESR-4266	2.50 in	1-17
	DEWALT Power Stud+ SD1	3/8	5	ESR-2818	2.50 in	1-16
	HILTI KWIK KH-EZ	3/8	5	ESR-3027	2.50 in	1-15
	DEWALT SCREW-BOLT+	3/8	5	ESR-3889	2.39 in	1-16
	HILTI KWIK BOLT TZ2	1/2	7	ESR-4266	3.25 in	18-25
	Hilti Hit-Z w/ HIT HY 200	1/2	7 3/4	ESR-4868	3.25 in	18-25

CONCRETE ATTACHMENT — Scale: N/A — ITSC Ref.: N/A — 6

Critical spacing, edge and end distances shall be satisfied per ESR reports.



☐ HILTI KWIK BOLT TZ2
1/2 X 7
ICC# ESR-4266
3 1/4 MIN. EMBED
8" MIN. CONCRETE THICKNESS
ROWS 1 - 12

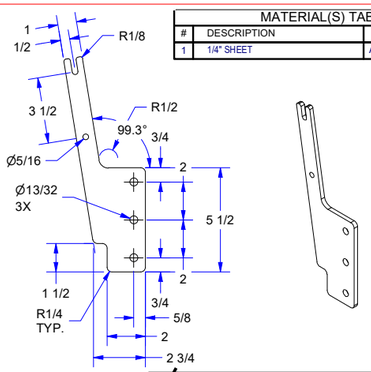
☐ HILTI HIT-Z W/ HIT-HY 200
1/2 X 7 3/4
ICC# ESR-4868
2 3/4 MIN. EMBED
5" MIN. CONCRETE THICKNESS
ROWS 1 - 9

☐ PROJECT SPECIFIC
CALCULATIONS REQUIRED FOR
12 ROWS AND ABOVE

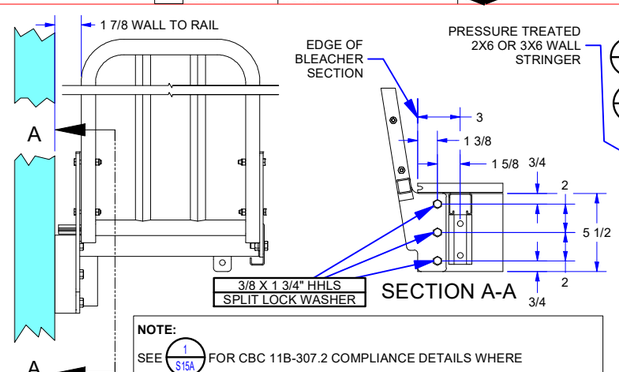
WOOD OVER CONCRETE ATTACHMENT — Scale: N/A — ITSC Ref.: N/A — 7

MATERIAL(S) TABLE

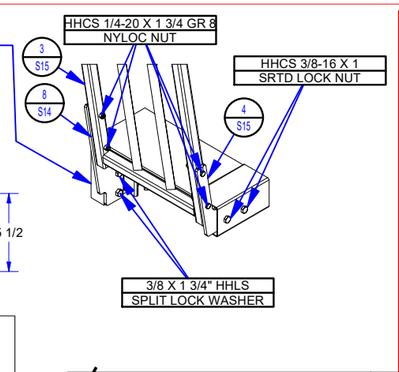
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	1/4" SHEET	A1011	40



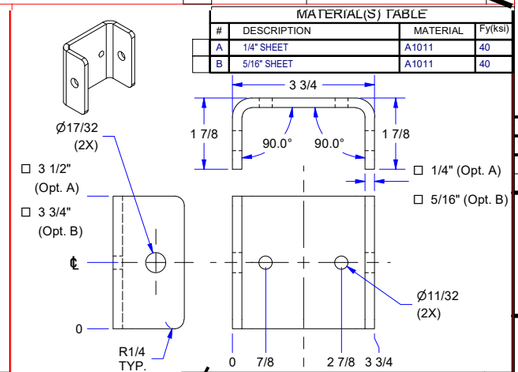
LAST ROW END RAIL BRACKET — Scale: 1/8 — ITSC Ref.: P18MIV0004523 — 8



NOTE:
SEE 1 S15A FOR CBC 11B-307.2 COMPLIANCE DETAILS WHERE
SELF STORING END RAIL OCCUR BETWEEN 27" TO 80" ABOVE THE FLOOR



LAST ROW SELF STORING END RAIL — Scale: n/a — ITSC Ref.: n/a — 9



MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
A	1/4" SHEET	A1011	40
B	5/16" SHEET	A1011	40

LOWER POST BRACKET - 2 FLANGES — Scale: N/A — ITSC Ref.: P02MIV0006734 — 10

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AMBER DELLANGELO
S 6402
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1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

DRAFTER: KMR — DATE: 3/2/2023

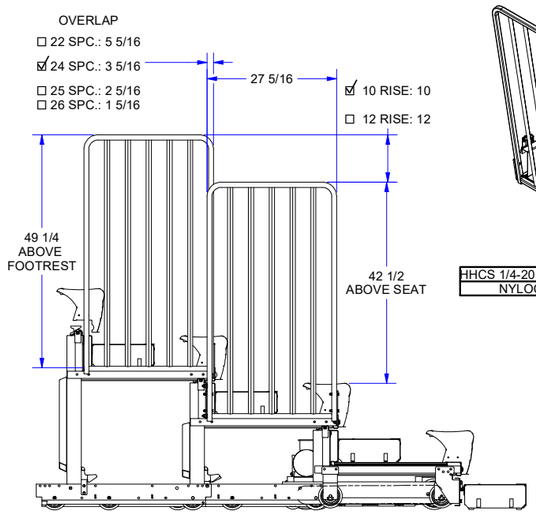
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

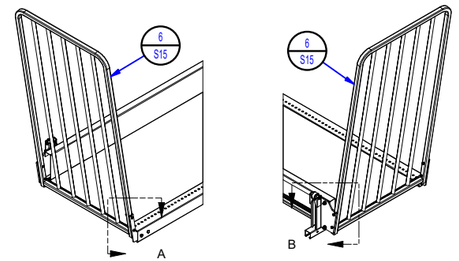
IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

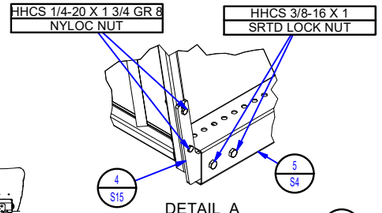
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FLOOR ATTACHMENT DETAILS

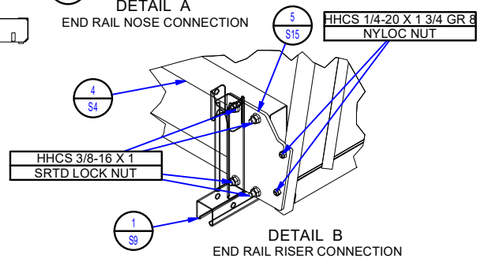
SHEET # **S14**







DETAIL A
END RAIL NOSE CONNECTION



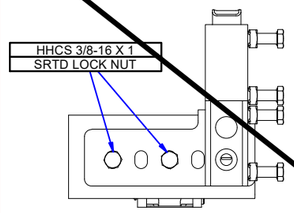
DETAIL B
END RAIL RISER CONNECTION

NOTE:

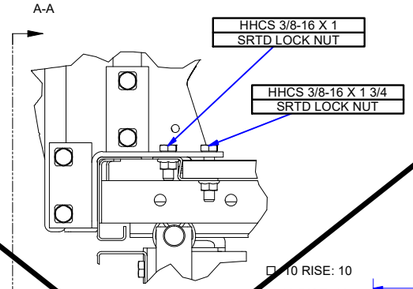
SEE 9 S14 FOR LAST ROW SELF STORING END RAIL DETAILS

SEE 1 S15A FOR CBC 11B-307.2 COMPLIANCE DETAILS WHERE SELF STORING END RAIL OCCUR BETWEEN 27" TO 80" ABOVE THE FLOOR

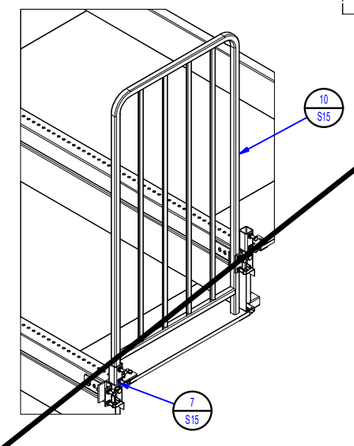
✓ SELF STORING END RAIL OVERVIEW — 1
Scale: 1/32 | ITSC Ref.: N/A

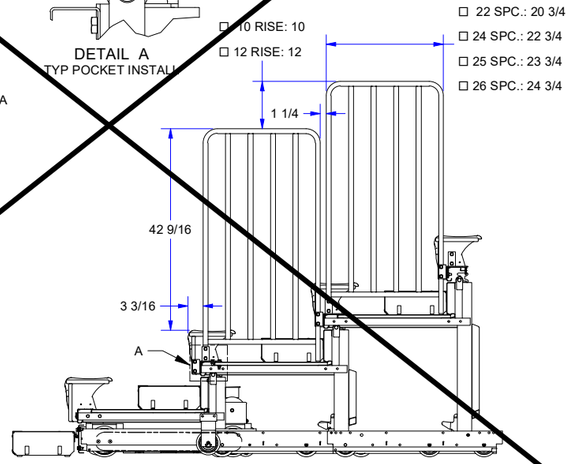


SECTION A-A



DETAIL A
TYP POCKET INSTALL





✓ REMOVABLE END RAIL OVERVIEW — 2
Scale: 1/32 | ITSC Ref.: N/A

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IRWIN VERSATRACT
PRE-CHECK DRAWINGS: 2022 CBC
FILE: PC-ITSC APP ID: 02-121254
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S 6402
STRUCTURAL
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1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
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REV.	DATE	DESCRIPTION

DRAFTER: KMR | DATE: 3/2/2023

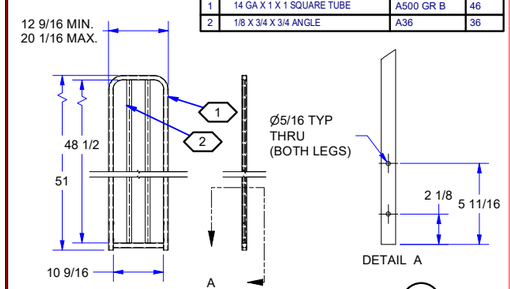
IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

END RAILS

SHEET # S15

MATERIAL(S) TABLE

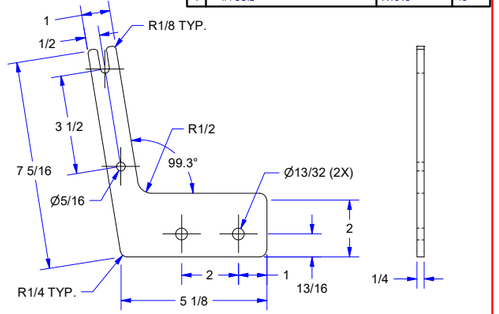
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 1 X 1 SQUARE TUBE	A500 GR B	46
2	1/8 X 3/4 X 3/4 ANGLE	A36	36



✓ LAST ROW SELF STORING END RAIL — 3
Scale: 1/32 | ITSC Ref.: A83ERV0001209

MATERIAL(S) TABLE

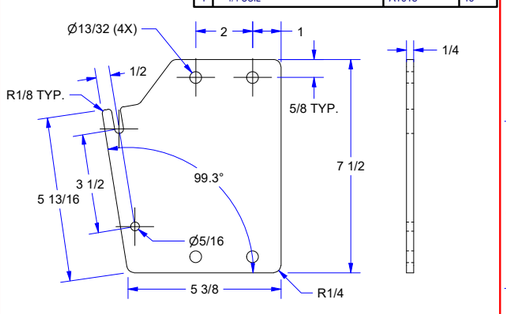
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	1/4 COIL	A1018	40



✓ RAIL ATTACHMENT NOSE CLIP — 4
Scale: 3/16 | ITSC Ref.: P18MIV0000426

MATERIAL(S) TABLE

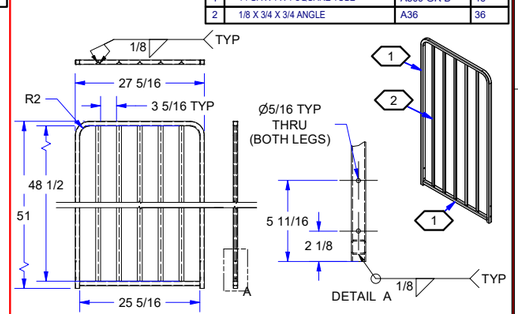
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	1/4 COIL	A1018	40



✓ RAIL ATTACHMENT REAR CLIP — 5
Scale: 3/16 | ITSC Ref.: P18MIV0000427

MATERIAL(S) TABLE

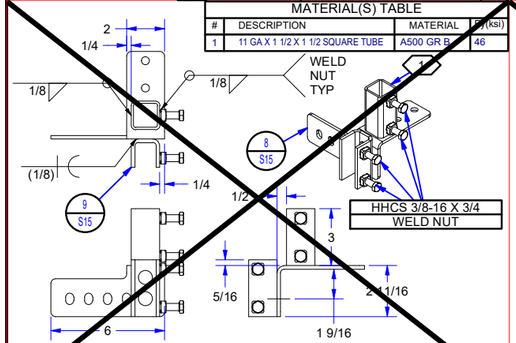
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 1 X 1 SQUARE TUBE	A500 GR B	46
2	1/8 X 3/4 X 3/4 ANGLE	A36	36



✓ SELF STORING END RAIL — 6
Scale: 1/32 | ITSC Ref.: A83ERV0000636

MATERIAL(S) TABLE

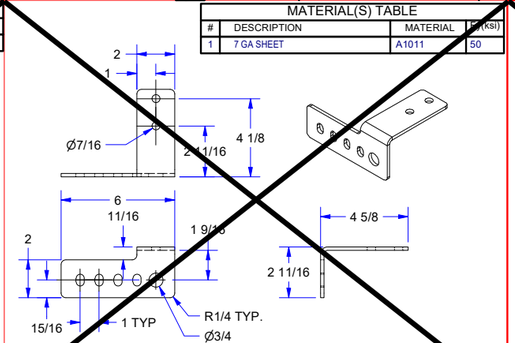
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	11 GA X 1 1/2 X 1 1/2 SQUARE TUBE	A500 GR B	46



✓ REMOVABLE END RAIL POCKET — 7
Scale: 1/16 | ITSC Ref.: A33STV0017463

MATERIAL(S) TABLE

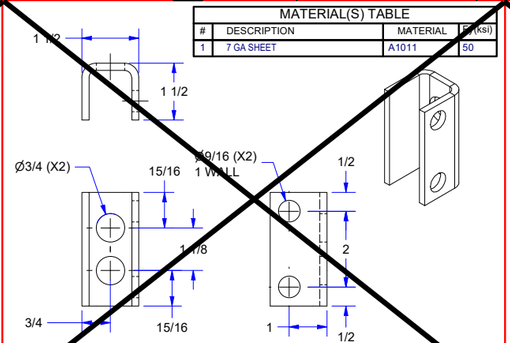
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	50



✓ REMOVABLE ER POCKET BASE ANGLE — 8
Scale: 1/8 | ITSC Ref.: P33STV0017459

MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	50



✓ REMOVABLE END RAIL POCKET SLEEVE — 9
Scale: 1/4 | ITSC Ref.: P33STV0017461

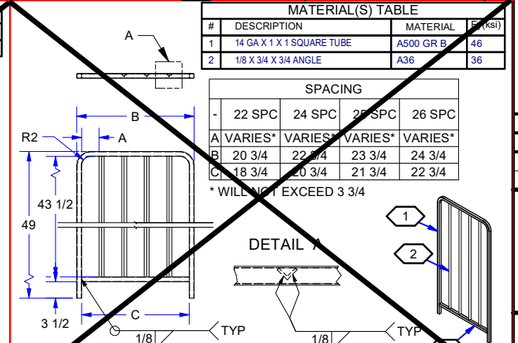
MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 1 X 1 SQUARE TUBE	A500 GR B	46
2	1/8 X 3/4 X 3/4 ANGLE	A36	36

SPACING

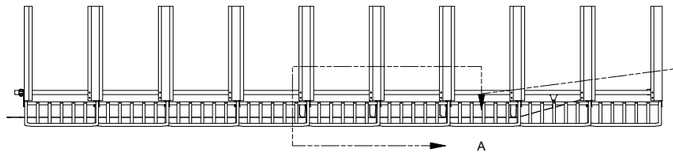
-	22 SPC	24 SPC	25 SPC	26 SPC
A	VARIES*	VARIES*	VARIES*	VARIES*
B	20 3/4	22 3/4	23 3/4	24 3/4
C	18 3/4	20 3/4	21 3/4	22 3/4

* WILL NOT EXCEED 3 3/4

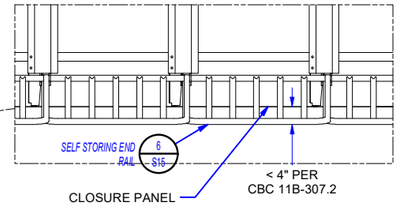


✓ REMOVABLE END RAIL — 10
Scale: 1/32 | ITSC Ref.: A33STV0017465

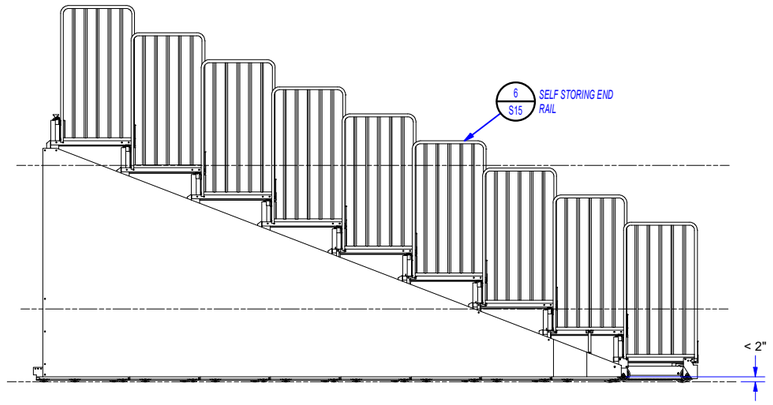
NOTE: WHERE SLANTED END RAILS OCCUR BETWEEN 27"-80" ABOVE THE FLOOR, INCLUDE VINYL CLOSURE PANEL AS SHOWN TO COMPLY WITH CBC 11B-307.2



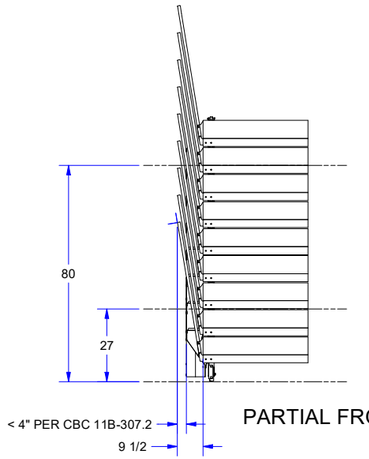
PARTIAL PLAN VIEW



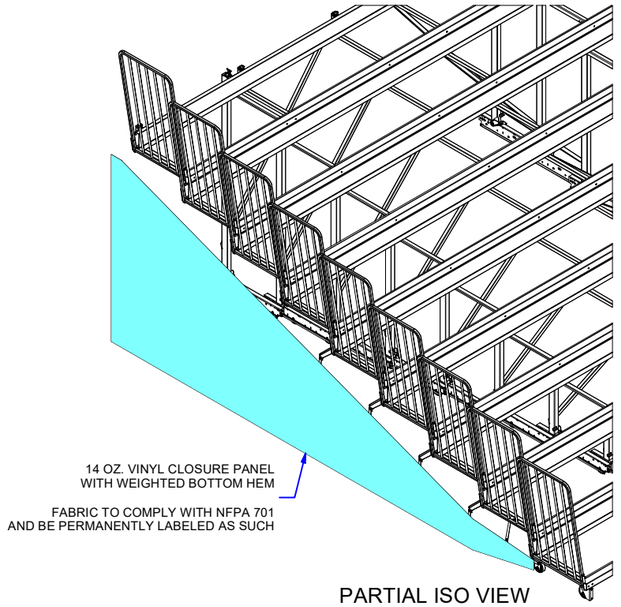
DETAIL A



END VIEW



PARTIAL FRONT VIEW



PARTIAL ISO VIEW

VINYL CLOSURE PANEL 1
Scale: N/A | ITSC Ref.: N/A

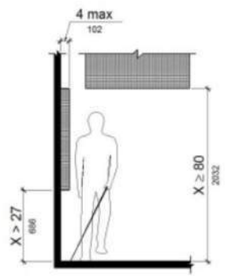


FIGURE *11B*-307.2 LIMITS OF PROTRUDING OBJECTS

CBC 11B-307.2 REFERNCE DETAIL 2
Scale: N/A | ITSC Ref.: N/A

PHOTO OF TYPICAL CLOSURE PANEL 3
Scale: N/A | ITSC Ref.: N/A

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MICHAEL MENDON
S 2377
STRUCTURAL
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IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA

1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

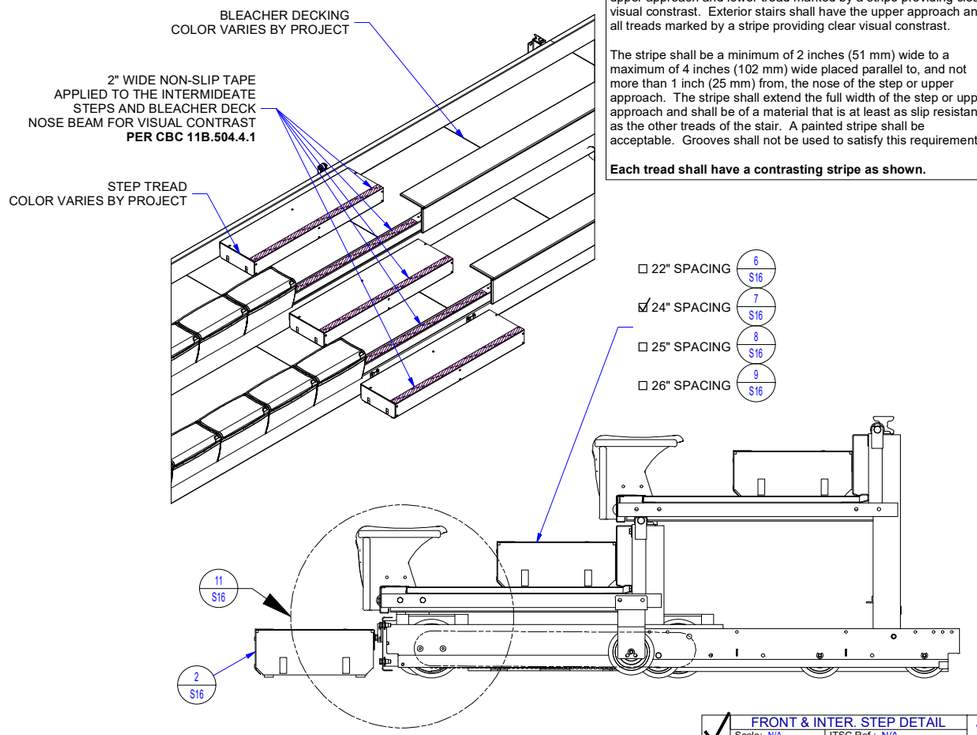
REV.	DATE	DESCRIPTION

DRAFTER: JBS | DATE: 11/17/2023

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

CLOSURE CURTAINS

SHEET # S15A



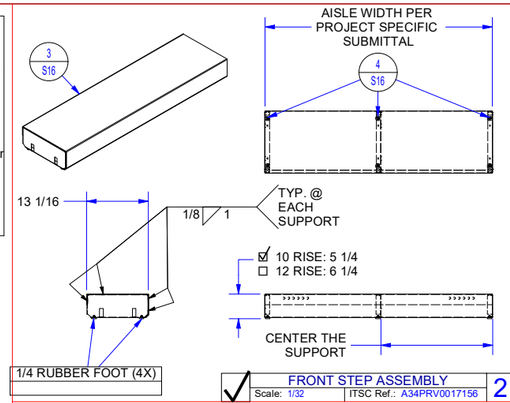
CBC 2022

11B-504.4.1 Contrasting stripe. Interior stairs shall have the upper approach and lower tread marked by a stripe providing clear visual constrast. Exterior stairs shall have the upper approach and all treads marked by a stripe providing clear visual constrast.

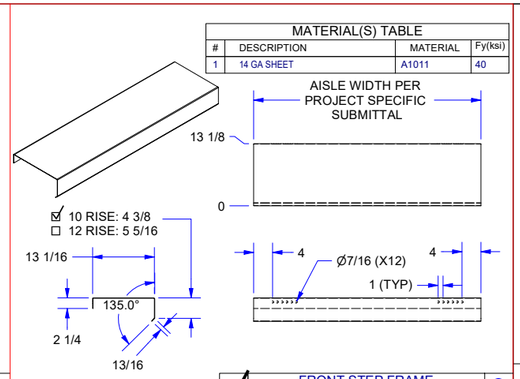
The stripe shall be a minimum of 2 inches (51 mm) wide to a maximum of 4 inches (102 mm) wide placed parallel to, and not more than 1 inch (25 mm) from, the nose of the step or upper approach. The stripe shall extend the full width of the step or upper approach and shall be of a material that is at least as slip resistant as the other treads of the stair. A painted stripe shall be acceptable. Grooves shall not be used to satisfy this requirement.

Each tread shall have a contrasting stripe as shown.

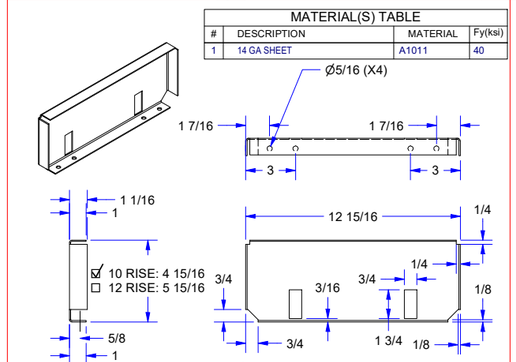
FRONT & INTER. STEP DETAIL — Scale: N/A — ITSC Ref.: N/A — 1



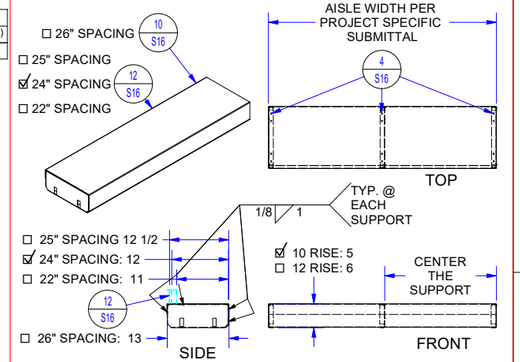
FRONT STEP ASSEMBLY — Scale: 1/32 — ITSC Ref.: A34PRV0017156 — 2



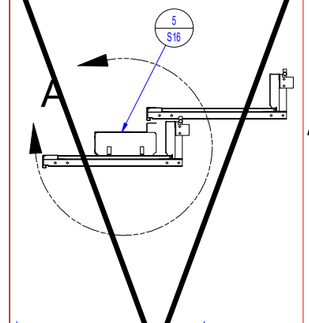
FRONT STEP FRAME — Scale: 1/32 — ITSC Ref.: P34PRV0017155 — 3



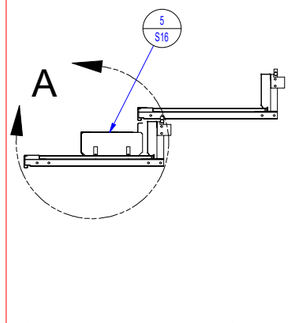
END PLATE — Scale: 1/8 — ITSC Ref.: P34PRV0016065 — 4



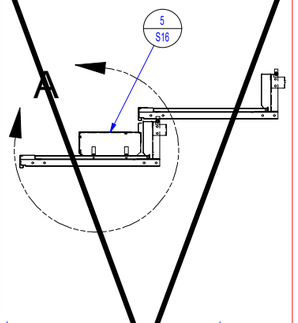
INTERMEDIATE STEP ASSEMBLY — Scale: 1/32 — ITSC Ref.: A34PRV0017256 — 5



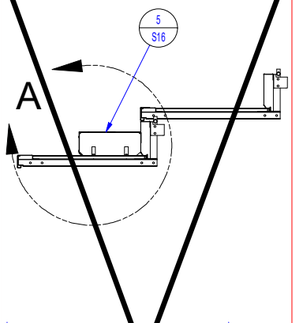
22 SPACING STEP DETAIL — Scale: N/A — ITSC Ref.: N/A — 6



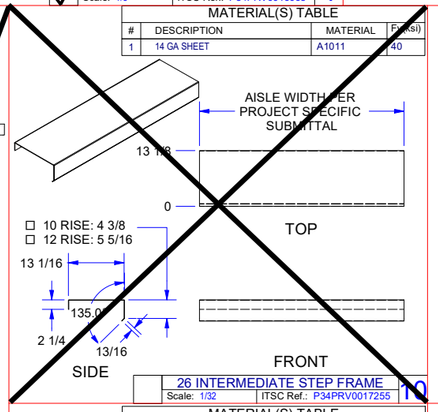
24 SPACING STEP DETAIL — Scale: N/A — ITSC Ref.: N/A — 7



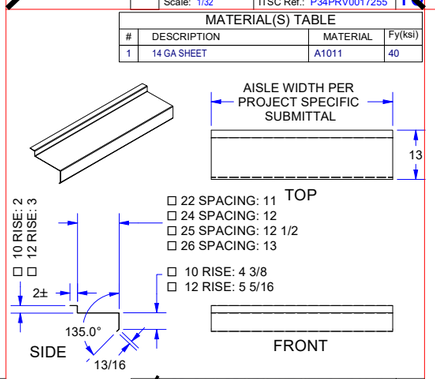
25 SPACING STEP DETAIL — Scale: N/A — ITSC Ref.: N/A — 8



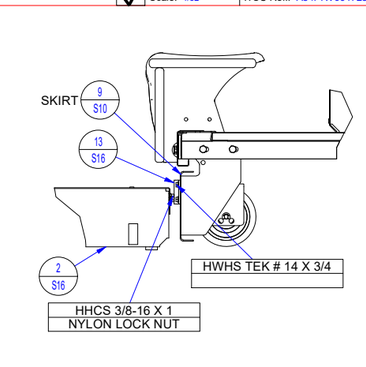
26 SPACING STEP DETAIL — Scale: N/A — ITSC Ref.: N/A — 9



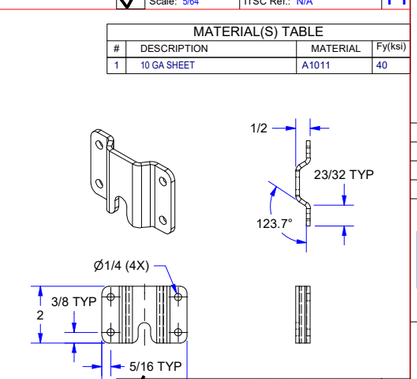
26 INTERMEDIATE STEP FRAME — Scale: 1/32 — ITSC Ref.: P34PRV0017255 — 10



22, 24 & 25 SPC INT STEP FRAME — Scale: 1/32 — ITSC Ref.: P34PRV0016048 — 12



FRONT STEP ATTACHMENT DETAIL — Scale: 5/64 — ITSC Ref.: N/A — 11



FRONT STEP ATTACH BRACKET — Scale: 1/4 — ITSC Ref.: P34STV0022681 — 13

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MICHAEL MENDON
S 2377
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STATE OF CALIFORNIA
7/10/24

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IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**

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AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA
1/8/2024

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1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

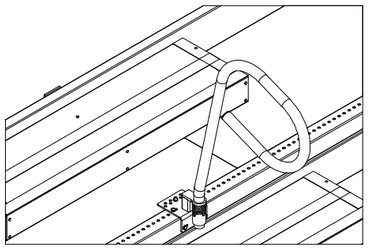
REV.	DATE	DESCRIPTION

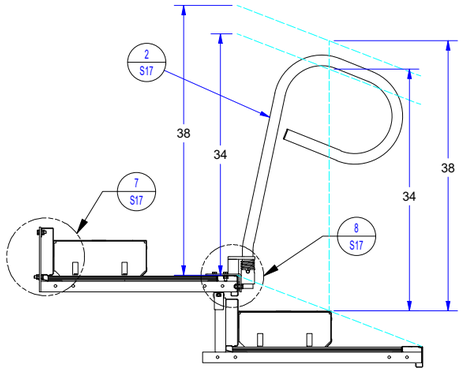
DRAFTER: KMR — DATE: 3/2/2023

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

AISLE STEPS

SHEET # S16

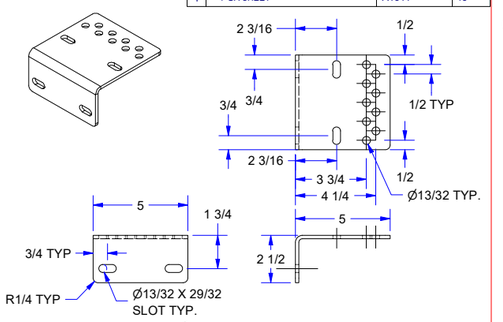




SMART RAIL INSTALLATION — Scale: 3/64 — ITSC Ref.: N/A — 1

MATERIAL(S) TABLE

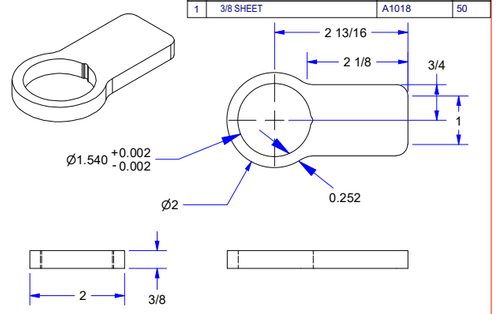
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40



CENTER RAIL POCKET PLATE — Scale: 1/8 — ITSC Ref.: P33STV0023733 — 5

MATERIAL(S) TABLE

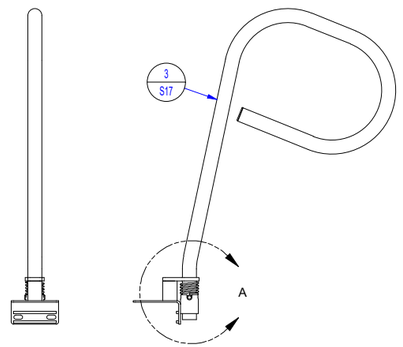
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	3/8 SHEET	A1018	50



SPRING HOLD DOWN RING — Scale: 5/16 — ITSC Ref.: P33STV0029259 — 9

MATERIAL(S) TABLE

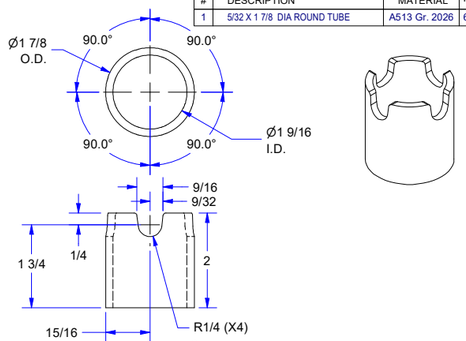
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	1/2 DIA ROD	1018 CR	32



SMART RAIL ASSEMBLY — Scale: 1/16 — ITSC Ref.: A02STV0006666 — 2

MATERIAL(S) TABLE

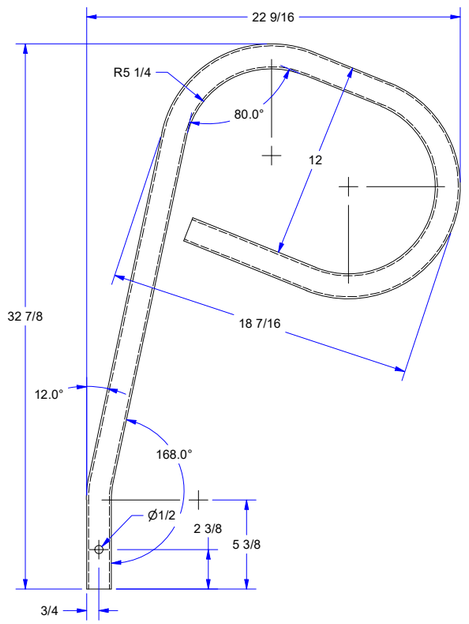
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	5/32 X 1 7/8 DIA ROUND TUBE	A513 Gr. 2026	65



CENTER HANDRAIL POCKET — Scale: 5/16 — ITSC Ref.: P33STV0029257 — 6

MATERIAL(S) TABLE

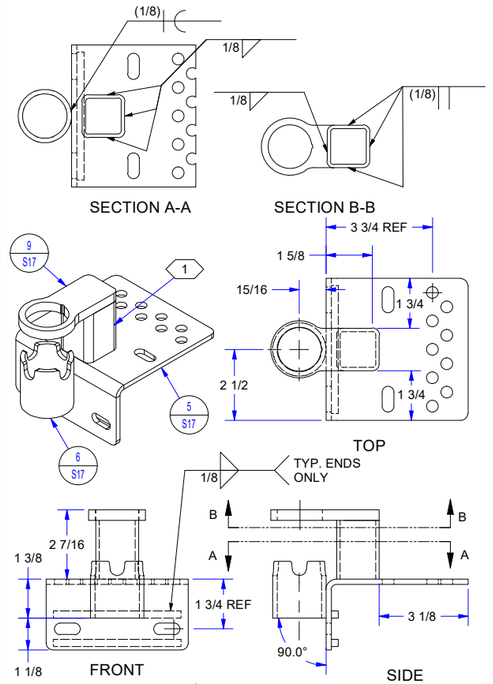
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	11 GA X 1 1/2 ROUND TUBE	A513	46



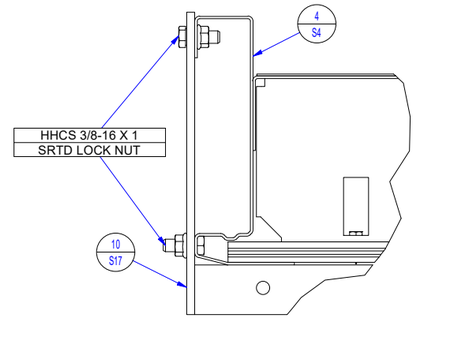
SMART RAIL — Scale: 1/8 — ITSC Ref.: P33STV0013519 — 3

MATERIAL(S) TABLE

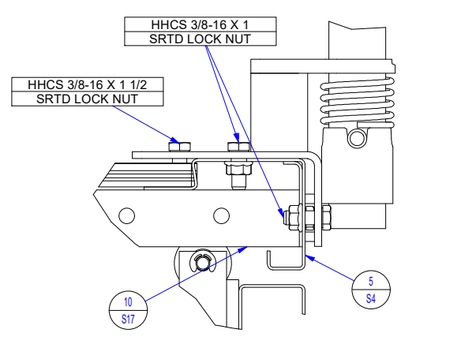
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	11 GA X 1 1/2 X 1 1/2 SQUARE TUBE	A500 GR B	46



HANDRAIL POCKET ASSEMBLY — Scale: 3/16 — ITSC Ref.: A33STV0029260 — 4



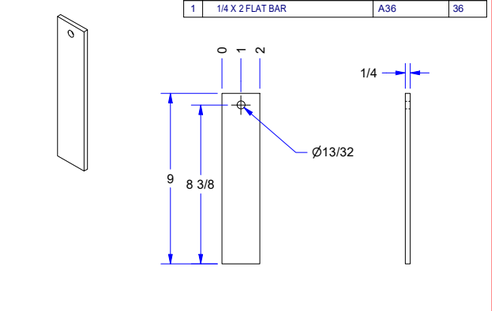
RISER ATTACHMENT DETAIL — Scale: 7/32 — ITSC Ref.: N/A — 7



NOSE BEAM ATTACHMENT DETAIL — Scale: 1/4 — ITSC Ref.: N/A — 8

MATERIAL(S) TABLE

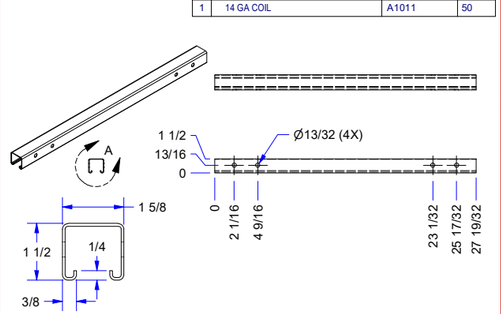
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	1/4 X 2 FLAT BAR	A36	36



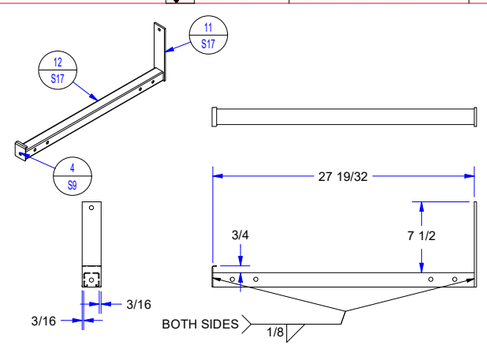
DECK STIFFENER UPRIGHT — Scale: 1/8 — ITSC Ref.: P18MIV0000057 — 11

MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA COIL	A1011	50



DECK STIFFENER BLANK — Scale: 1/16 — ITSC Ref.: P18DAV0000059 — 12



HANDRAIL DECK STIFFENER — Scale: 1/32 — ITSC Ref.: A18DAV0000058 — 10

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REV.	DATE	DESCRIPTION

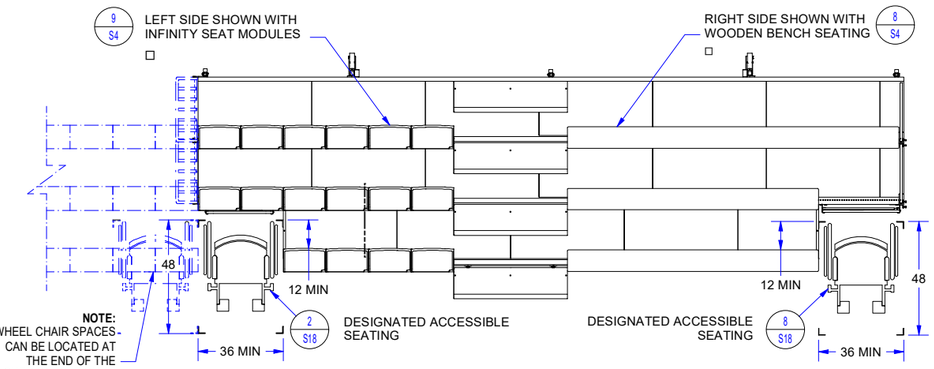
DRAFTER: KMR — DATE: 3/2/2023

Irwin.

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

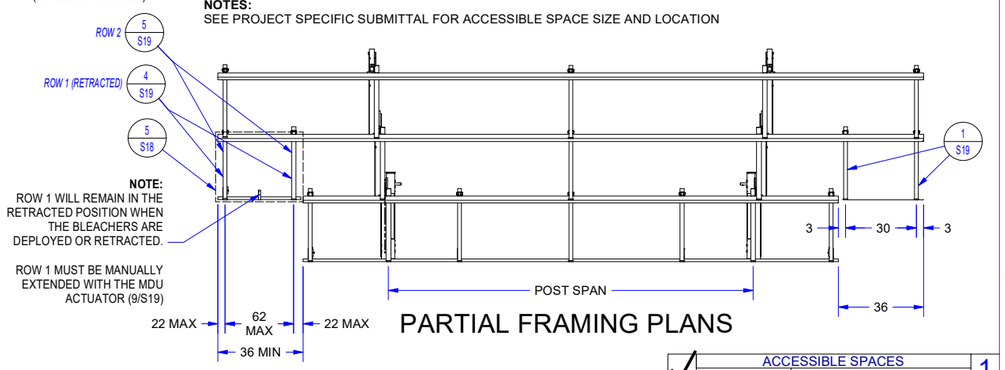
AISLE HANDRAIL

SHEET # **S17**



PLAN VIEW - ACCESSIBLE SPACES

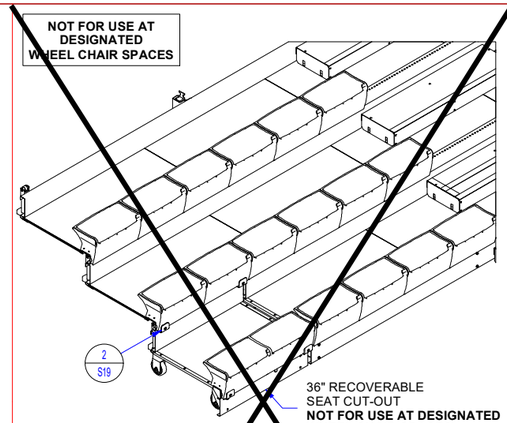
NOTES:
SEE PROJECT SPECIFIC SUBMITTAL FOR ACCESSIBLE SPACE SIZE AND LOCATION



PARTIAL FRAMING PLANS

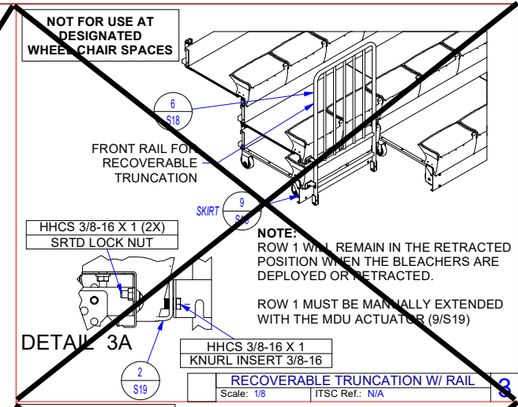
ACCESSIBLE SPACES 1
Scale: 1/64 | ITSC Ref.: N/A

NOT FOR USE AT DESIGNATED WHEEL CHAIR SPACES



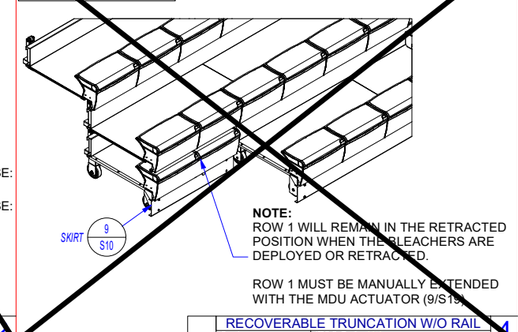
RECOVERABLE TRUNCATION 2
Scale: 1/32 | ITSC Ref.: N/A

NOT FOR USE AT DESIGNATED WHEEL CHAIR SPACES



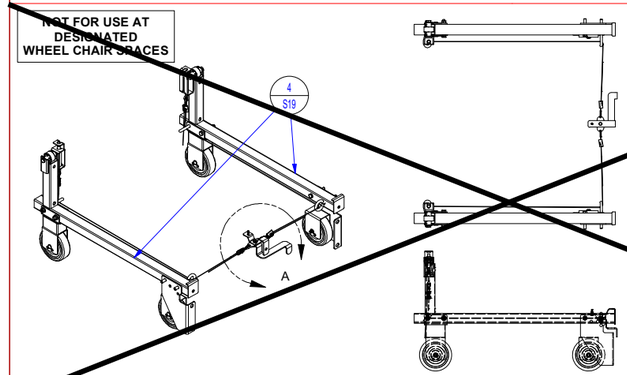
RECOVERABLE TRUNCATION W/ RAIL 3
Scale: 1/8 | ITSC Ref.: N/A

NOT FOR USE AT DESIGNATED WHEEL CHAIR SPACES

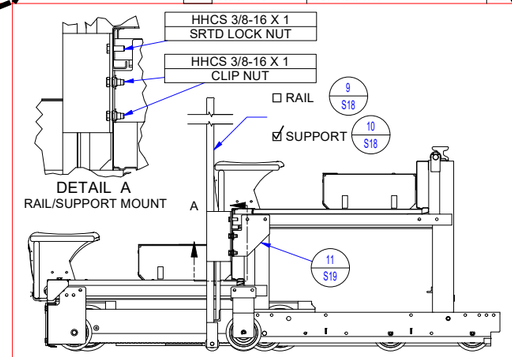


RECOVERABLE TRUNCATION W/O RAIL 4
Scale: ITSC Ref.: N/A

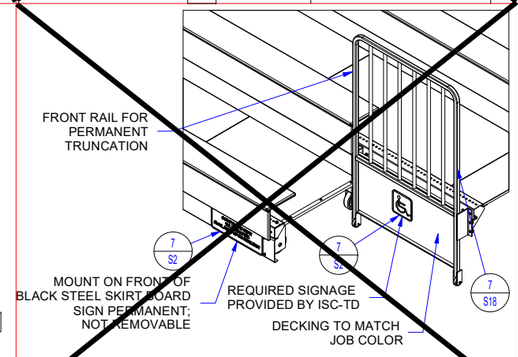
NOT FOR USE AT DESIGNATED WHEEL CHAIR SPACES



RECOVERABLE LAYOUT 5
Scale: N/A | ITSC Ref.: N/A



PERMANENT TRUNCATION OVERVIEW 8
Scale: 3/64 | ITSC Ref.: N/A

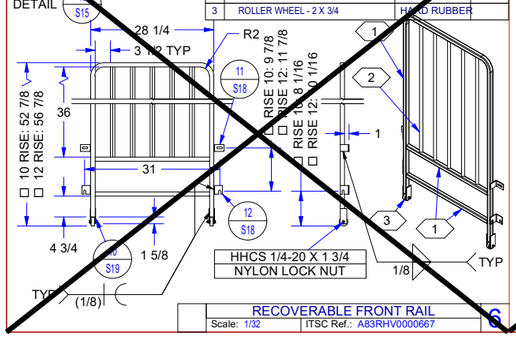


PERMANENT TRUNCATION W/ RAIL 9
Scale: N/A | ITSC Ref.: N/A

NOTE: ALL UNSPECIFIED WELDS SIMILAR TO DETAIL 15 S15

MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 1 X 1 SQUARE TUBE	A500 GR B	46
2	1/8 X 3/4 X 3/4 ANGLE	A36	36
3	ROLLER WHEEL - 2 X 3/4	HARD RUBBER	

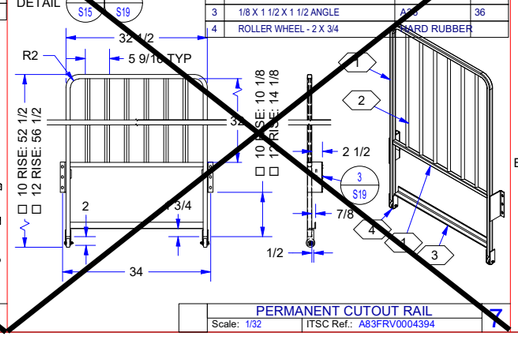


RECOVERABLE FRONT RAIL 6
Scale: 1/32 | ITSC Ref.: A83RHV0000667

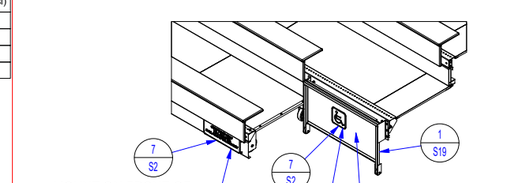
NOTE: ALL UNSPECIFIED WELDS SIMILAR TO DETAIL 15 S15 1 S19

MATERIAL(S) TABLE

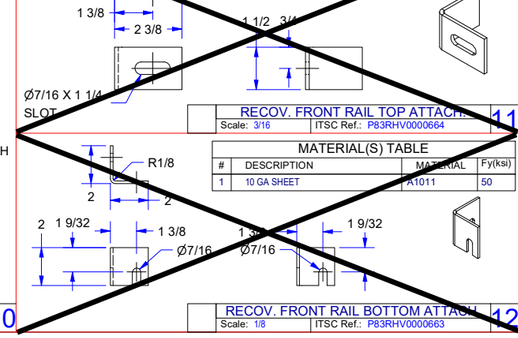
#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 1 X 1 SQUARE TUBE	A500 GR B	46
2	1/8 X 3/4 X 3/4 ANGLE	A36	36
3	1/8 X 1 1/2 X 1 1/2 ANGLE	A36	36
4	ROLLER WHEEL - 2 X 3/4	HARD RUBBER	



PERMANENT CUTOUT RAIL 7
Scale: 1/32 | ITSC Ref.: A83FRV0004394



PERMANENT TRUNCATION W/O RAIL 10
Scale: ITSC Ref.: N/A



RECOV. FRONT RAIL TOP ATTACH. 11
Scale: 3/16 | ITSC Ref.: P83RHV0000664

RECOV. FRONT RAIL BOTTOM ATTACH. 12
Scale: 1/8 | ITSC Ref.: P83RHV0000663

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025
DSA STAMP HERE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA
7/10/24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121254 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 1/11/2024
DSA PC STAMP HERE

IRWIN VERSATRACT
PRE-CHECK DRAWINGS: 2022 CBC
FILE: PC-ITSC APP ID: 02-121254
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
S 6402
STRUCTURAL
STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

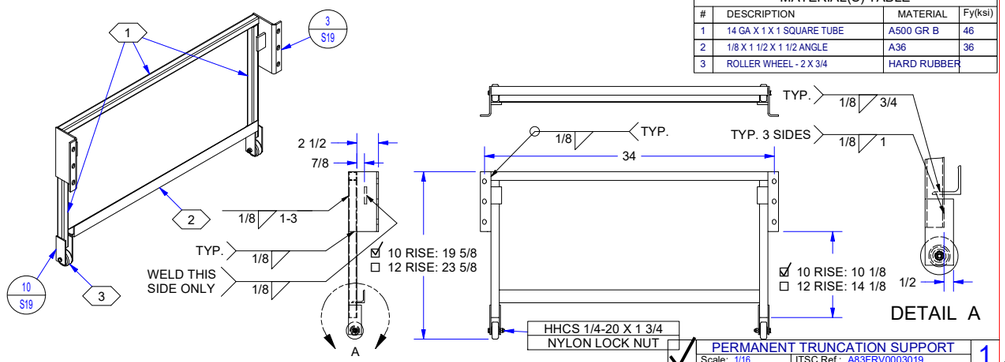
DRAFTER: KMR
DATE: 3/2/2023

Irwin.

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

ACCESSIBLE SPACES

SHEET # S18

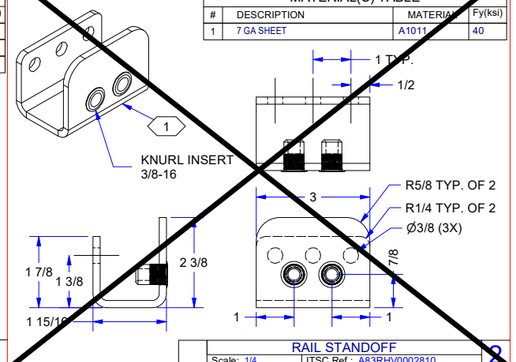


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	14 GA X 1 X 1 SQUARE TUBE	A500 GR B	46
2	1/8 X 1 1/2 X 1 1/2 ANGLE	A36	36
3	ROLLER WHEEL - 2 X 3/4	HARD RUBBER	

PERMANENT TRUNCATION SUPPORT 1

Scale: 1/16 | ITSC Ref.: A83FRV0003019

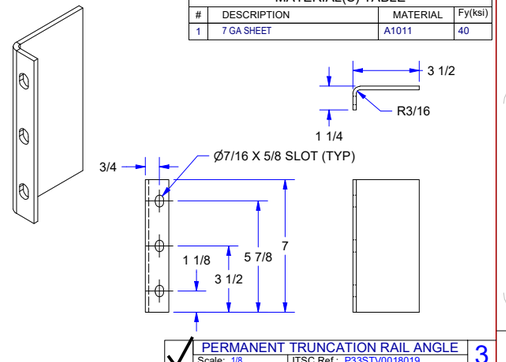


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40

RAIL STANDOFF 2

Scale: 1/4 | ITSC Ref.: A83RHV0002810

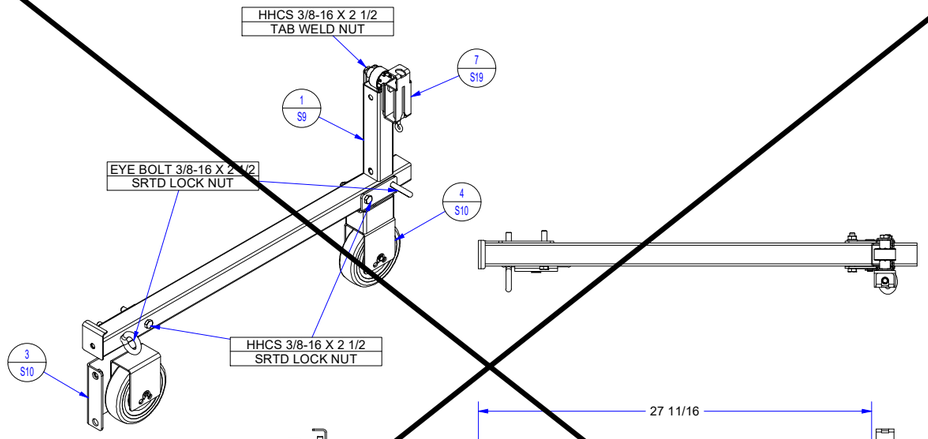


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	7 GA SHEET	A1011	40

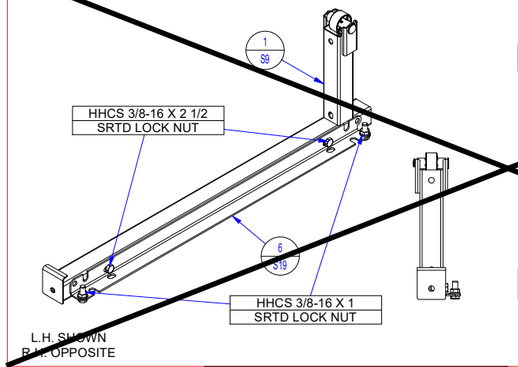
PERMANENT TRUNCATION RAIL ANGLE 3

Scale: 1/8 | ITSC Ref.: P33STV0018019



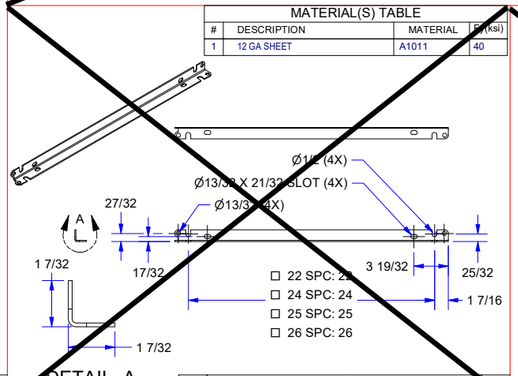
MDU OUTRIGGER DECK SUPPORT 4

Scale: 3/32 | ITSC Ref.: N/A



MDU GUIDE DECK SUPPORT 5

Scale: 3/32 | ITSC Ref.: N/A

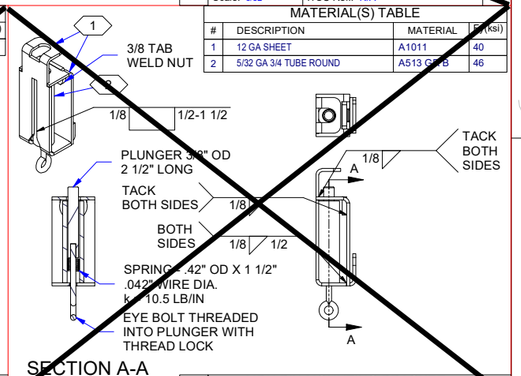


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA SHEET	A1011	40

MDU GUIDE 6

Scale: 1/16 | ITSC Ref.: P18MIV0000435

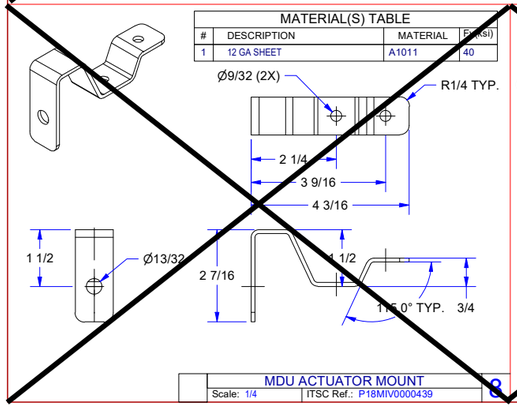


MATERIAL(S) TABLE

#	DESCRIPTION	MATERIAL	Fy(ksi)
1	12 GA SHEET	A1011	40
2	5/32 GA 3/4 TUBE ROUND	A513 GR B	46

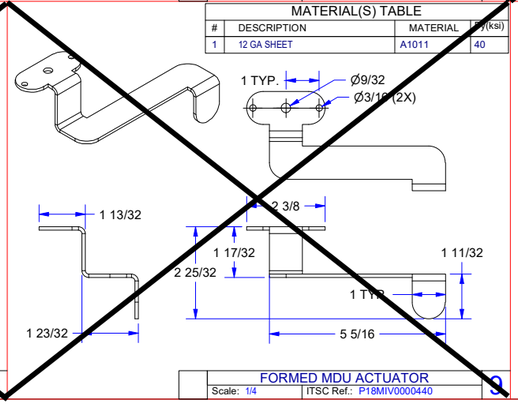
MDU PIN MOUNTING BRACKET 7

Scale: 3/16 | ITSC Ref.: A18MIV0000441



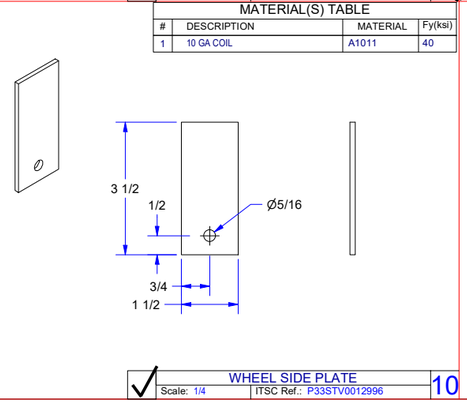
MDU ACTUATOR MOUNT 8

Scale: 1/4 | ITSC Ref.: P18MIV0000439



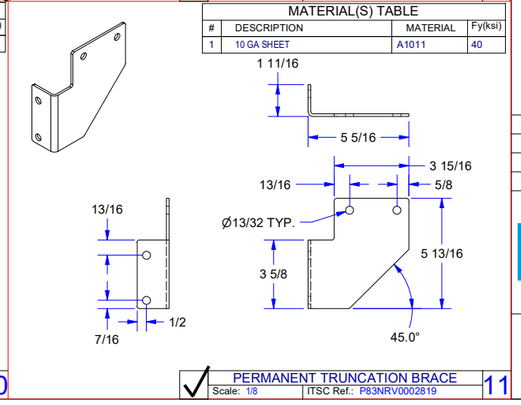
FORMED MDU ACTUATOR 9

Scale: 1/4 | ITSC Ref.: P18MIV0000440



WHEEL SIDE PLATE 10

Scale: 1/4 | ITSC Ref.: P33STV0012996



PERMANENT TRUNCATION BRACE 11

Scale: 1/8 | ITSC Ref.: P83NRV0002819

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025
DEPARTMENT OF GENERAL SERVICES

DSA STAMP HERE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL MENDON
S 2377
STRUCTURAL
STATE OF CALIFORNIA

7/10/24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121254 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 1/11/2024
DEPARTMENT OF GENERAL SERVICES

DSA PC STAMP HERE

IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-TSC** APP ID: **02-121254**

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER
AMBER DELLANGELO
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STRUCTURAL
STATE OF CALIFORNIA

1/8/2024

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LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

DRAFTER: KMR | DATE: 3/2/2023

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

ACCESSIBLE SPACES CONT.

SHEET # S19

USE?	SECTION LENGTH	ROW 1 POST SPAN	MAX. ROWS	FLAT STRAP ROWS	AUX. POST ROWS
	10'-2"	45 in	12	-	-
	10'-4"	47 in	12	-	-
	10'-6"	47 in	12	-	-
	10'-8"	47 in	13	-	-
	10'-10"	49 in	13	-	-
	11'-0"	49 in	13	-	-
	11'-2"	49 in	14	-	-
	11'-4"	51 in	14	-	-
	11'-6"	51 in	14	-	-
	11'-8"	51 in	14	-	-
	11'-10"	53 in	14	-	-
	12'-0"	53 in	15	-	-
	12'-2"	53 in	15	-	-
	12'-4"	55 in	15	-	-
	12'-6"	55 in	16	-	-
	12'-8"	55 in	16	-	-
	12'-10"	57 in	16	-	-
	13'-0"	57 in	16	-	-
	13'-2"	57 in	17	-	-
	13'-4"	59 in	17	-	-
	13'-6"	59 in	17	-	-
	13'-8"	59 in	18	-	-
	13'-10"	61 in	18	-	-
	14'-0"	61 in	18	-	-

SECTION SIZES - 10" RISE

USE?	SECTION LENGTH	ROW 1 POST SPAN	MAX. ROWS	FLAT STRAP ROWS	AUX. POST ROWS
	14'-2"	61 in	18	-	-
	14'-4"	63 in	18	-	-
	14'-6"	63 in	19	-	-
	14'-8"	63 in	19	-	-
	14'-10"	65 in	19	-	-
	15'-0"	65 in	20	-	-
	15'-2"	65 in	20	-	-
	15'-4"	67 in	20	-	-
	15'-6"	67 in	20	-	-
	15'-8"	67 in	21	-	-
	15'-10"	69 in	21	-	-
	16'-0"	69 in	21	-	-
	16'-2"	69 in	22	-	-
	16'-4"	71 in	22	-	-
	16'-6"	71 in	22	-	-
	16'-8"	71 in	22	-	-
	16'-10"	73 in	22	-	-
	17'-0"	73 in	23	-	-
	17'-2"	73 in	23	-	-
	17'-4"	75 in	23	-	-
	17'-6"	75 in	24	-	-
	17'-8"	75 in	24	-	-
	17'-10"	77 in	24	-	-
	18'-0"	77 in	24	-	-

SECTION SIZES - 10" RISE

USE?	SECTION LENGTH	ROW 1 POST SPAN	MAX. ROWS	FLAT STRAP ROWS	AUX. POST ROWS
	18'-2"	79 in	24	-	-
	18'-4"	81 in	24	-	-
	18'-6"	83 in	24	-	-
	18'-8"	85 in	24	-	-
	18'-10"	87 in	24	-	-
	19'-0"	89 in	24	-	-
	19'-2"	91 in	24	-	-
	19'-4"	93 in	24	-	-
	19'-6"	95 in	24	-	-
	19'-8"	97 in	24	-	-
	19'-10"	99 in	24	-	-
	20'-0"	101 in	24	-	-
	20'-2"	103 in	24	-	-
	20'-4"	105 in	24	-	-
	20'-6"	107 in	24	-	-
	20'-8"	109 in	24	-	-
	20'-10"	111 in	24	-	-
	21'-0"	113 in	24	-	-
	21'-2"	115 in	24	-	-
	21'-4"	117 in	24	-	-
	21'-6"	119 in	24	-	-

SECTION SIZES - 10" RISE

USE?	SECTION LENGTH	ROW 1 POST SPAN	MAX. ROWS	FLAT STRAP ROWS	AUX. POST ROWS
	21'-8"	121 in	24	11-16	-
	21'-10"	123 in	24	11-16	-
	22'-0"	125 in	24	11-16	-
	22'-2"	127 in	24	11-16	-
	22'-4"	129 in	24	11-16	-
	22'-6"	131 in	24	11-16	-
	22'-8"	133 in	24	11-16	-
	22'-10"	135 in	24	11-16	-
	23'-0"	137 in	24	11-16	-
	23'-2"	139 in	24	11-16	-
	23'-4"	141 in	24	11-16	-
	23'-6"	143 in	24	11-16	-
	23'-8"	145 in	24	11-16	-
	23'-10"	147 in	24	11-16	-
	24'-0"	149 in	24	11-16	-
	24'-2"	151 in	24	11-16	-
	24'-4"	153 in	24	11-16	-
	24'-6"	155 in	24	11-16	-
	24'-8"	157 in	24	11-16	-
	24'-10"	159 in	24	11-16	-

SECTION SIZES - 10" RISE

USE?	SECTION LENGTH	ROW 1 POST SPAN	MAX. ROWS	FLAT STRAP ROWS	AUX. POST ROWS
✓	25'-0"	157 in	23	11-16	-
	25'-2"	159 in	23	11-16	2
	25'-4"	155 in	23	11-16	2
✓	25'-6"	157 in	23	11-16	2-3
	25'-8"	159 in	23	11-16	2-3
	25'-10"	156 in	23	11-16	2-4
	26'-0"	158 in	23	11-16	2-4
	26'-2"	155 in	23	11-16	2-5
	26'-4"	157 in	23	11-16	2-5
	26'-6"	159 in	23	11-16	2-5
	26'-8"	156 in	23	11-16	2-6
	26'-10"	158 in	23	11-16	2-6
	27'-0"	160 in	23	11-16	2-6

✓ SECTION SIZES - 10" RISE — Scale: — ITSC Ref.: — 1

10" RISE DIMENSIONS

ROW	MAX. POST SPAN (IN.)*	POST TYPE (SEE SHEET S7)	COLUMN HEIGHT (IN.) (SEE SHEET S7)	COLUMN SIZE (IN.)	L/R OF COLUMN (SEE NOTE BELOW)	ROW HEIGHT (IN.)	KNEE BRACE 1 (IN.)	KNEE BRACE 1 W/ STRAP BRACE (IN.)	KNEE BRACE 2 W/ HORZ. BRACE (IN.)	-	X (IN.)	Y (IN.)	BRACE HOLE CENTER (IN.)	BRACE TYPE (SEE SHEET S12)	-	X (IN.)	Y (IN.)	BRACE HOLE CENTER (IN.)	BRACE TYPE (SEE SHEET S12)	-	SPAN (IN.)	FLAT BAR LENGTH (IN.)	BRACE TYPE (SEE SHEET S12)	-	SPAN (IN.)	TUBE LENGTH (IN.)	DIM "A" (IN.)	BRACE TYPE (SEE SHEET S12)
											MAX. LOWER KNEE BRACE DIMENSIONS					MAX. UPPER KNEE BRACE DIMENSIONS					MAX. FLAT BAR BRACE DIMENSIONS 21'-8" AND LONGER SECTIONS ONLY SEE NOTE BELOW				MAX. HORZ. BRACING DIMENSIONS (SHEET S12, DETAIL 5)			
1	159	DETAIL 2	11.3125	3 X 2	10.03	10	N/A	N/A	N/A		0	0	0	0		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
2	164	DETAIL 2	21.3125	3 X 2	18.89	20	2.00	N/A	N/A		38.00	11.0625	39.578	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
3	169	DETAIL 2	31.3125	3 X 2	27.76	30	3.50	N/A	N/A		40.50	19.5625	44.977	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
4	174	DETAIL 2	41.3125	3 X 2	36.62	40	5.00	N/A	N/A		43.00	28.0625	51.347	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
5	179	DETAIL 2	51.3125	3 X 2	45.49	50	6.50	N/A	N/A		45.50	36.5625	58.370	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
6	184	DETAIL 2	61.3125	3 X 2	54.35	60	8.00	N/A	N/A		48.00	45.0625	65.838	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
7	189	DETAIL 2	71.3125	3 X 2	63.21	70	9.50	N/A	N/A		50.50	53.5625	73.615	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
8	194	DETAIL 2	81.3125	3 X 2	72.08	80	11.00	N/A	N/A		53.00	62.0625	81.613	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
9	199	DETAIL 2	91.3125	3 X 2	80.94	90	12.50	N/A	N/A		55.50	70.5625	89.774	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
10	204	DETAIL 2	101.3125	3 X 2	89.81	100	14.00	N/A	N/A		58.00	79.0625	98.055	DETAIL 1		N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A	N/A
11	209	DETAIL 2	111.3125	3 X 2	98.67	110	N/A	15.50	N/A		N/A	N/A	N/A	N/A		60.50	87.5625	106.430	DETAIL 3 or 6		209	210.25	DETAIL 4		N/A	N/A	N/A	N/A
12	214	DETAIL 2	121.3125	3 X 2	107.54	120	N/A	17.00	N/A		N/A	N/A	N/A	N/A		63.00	96.0625	114.878	DETAIL 3 or 6		214	215.25	DETAIL 4		N/A	N/A	N/A	N/A
13	219	DETAIL 2	131.3125	3 X 2	116.40	130	N/A	18.50	N/A		N/A	N/A	N/A	N/A		65.50	104.5625	123.384	DETAIL 3 or 6		219	220.25	DETAIL 4		N/A	N/A	N/A	N/A
14	224	DETAIL 2	141.3125	3 X 2	125.27	140	N/A	20.00	N/A		N/A	N/A	N/A	N/A		68.00	113.0625	131.936	DETAIL 3 or 6		224	225.25	DETAIL 4		N/A	N/A	N/A	N/A
15	229	DETAIL 3	151.3125	4 X 2	103.92	150	N/A	21.50	N/A		N/A	N/A	N/A	N/A		70.50	121.5625	140.526	DETAIL 3 or 6		229	230.25	DETAIL 4		N/A	N/A	N/A	N/A
16	234	DETAIL 3	161.3125	4 X 2	110.78	160	N/A	23.00	N/A		N/A	N/A	N/A	N/A		73.00	130.0625	149.148	DETAIL 3 or 6		234	235.25	DETAIL 4		N/A	N/A	N/A	N/A
17	239	DETAIL 4	171.3125	4 X 2	117.65	170	2.00	N/A	55		50.00	53.0000	72.863	DETAIL 1		75.50	108.0625	131.825	DETAIL 3		N/A	N/A	N/A		239	240 1/4	50	DETAIL 5
18	244	DETAIL 4	181.3125	4 X 2	124.52	180	3.50	N/A	60		50.00	56.5000	75.447	DETAIL 1		78.00	113.0625	137.358	DETAIL 3		N/A	N/A	N/A		244	245 1/4	50	DETAIL 5
19	249	DETAIL 4	191.3125	4 X 2	131.39	190	5.00	N/A	65		50.00	60.0000	78.102	DETAIL 1		80.50	118.0625	142.895	DETAIL 3		N/A	N/A	N/A		249	250 1/4	50	DETAIL 5
20	254	DETAIL 4	201.3125	4 X 2	138.25	200	6.50	N/A	70		50.00	63.5000	80.822	DETAIL 1		83.00	123.0625	148.436	DETAIL 3		N/A	N/A	N/A		254	255 1/4	50	DETAIL 5
21	259	DETAIL 5	211.3125	4 X 2	145.12	210	8.00	N/A	75		50.00	67.0000	83.600	DETAIL 1		85.50	128.0625	153.981	DETAIL 8		N/A	N/A	N/A		259	260 1/4	50	DETAIL 5
22	264	DETAIL 5	221.3125	4 X 2	151.99	220	9.50	N/A	80		50.00	70.5000	86.431	DETAIL 1		88.00	133.0625	159.529	DETAIL 8		N/A	N/A	N/A		264	265 1/4	50	DETAIL 5
SECTION LENGTHS LESS THAN OR EQUAL TO 24'-10"																												
23	269	DETAIL 5	231.3125	4 X 2	158.86	230	11.00	N/A	85		50.00	74.0000	89.308	DETAIL 1		90.50	138.0625	165.080	DETAIL 8		N/A	N/A	N/A		269	270 1/4	50	DETAIL 5
24	274	DETAIL 5	241.3125	4 X 2	165.73	240	12.50	N/A	90		50.00	77.5000	92.229	DETAIL 1		93.00	143.0625	170.634	DETAIL 8		N/A	N/A	N/A		274	275 1/4	50	DETAIL 5
25	-	-	-	-	-	250	-	-	-		-	-	-	-		-	-	-	-		-	-	-		-	-	-	-
SECTION LENGTHS GREATER THAN 24'-10"																												
23	269	DETAIL 5	231.3125	4 X 2	158.86	230	11.00	N/A	85		50.00	74.0000	89.308	DETAIL 1		90.50	138.0625	165.080	DETAIL 8		N/A	N/A	N/A		269	270 1/4	50	DETAIL 5
24	-	-	-	-	-	240	-	-	-		-	-	-	-		-	-	-	-		-	-	-		-	-	-	-

NOTE: ONLY 260" (21'-8") AND LONGER SECTIONS WILL HAVE THE STRAP BRACE
SECTIONS WITHOUT THE STRAP WILL USE BRACE ON DETAIL 6 SHEET S12

L/R OF COLUMN:
L = UNBRACED LENGTH OF COLUMN IN THE STRONG AXIS (IN.)
R = RADIUS OF GYRATION OF THE COLUMN IN THE STRONG AXIS (IN.)
L/R = L ÷ R

* MAX. POST SPAN **WITHOUT** AUX. POSTS

10" RISE DIMENSIONS — Scale: — ITSC Ref.: — 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124361 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2025
DSA STAMP HERE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL MENDON — S 2377 — STRUCTURAL — STATE OF CALIFORNIA
7/10/24

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121254 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 1/11/2024
DSA PC STAMP HERE

IRWIN VERSATRACT
PRE-CHECK DRAWINGS: **2022 CBC**
FILE: **PC-ITSC** APP ID: **02-121254**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ENGINEER — AMBER DELLANGELO — S 6402 — STRUCTURAL — STATE OF CALIFORNIA
1/8/2024

Larson Engineering Inc
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
LEI Comm. No. 21230177.000

REV.	DATE	DESCRIPTION

DRAFTER: KMR — DATE: 3/2/2023

IRWIN SEATING COMPANY
TELESCOPIC DIVISION
610 East Cumberland Road
Altamont, IL 62411

DIMENSIONS - 10" RISE

SHEET # S20