STADIUM MODERNIZATION
AT MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
INCREMENT NO. 2

DSA FILE NO. : 20-H3 | PTN: 65243-91 | DSA APPL. NO. : 02-116986

C:\Users\tony.pavone\Documents\10748-A-MADERA SOUTH-BUILDINGS-2017_tony.pavone.rvt

PLOT DATE: 12/8/2016 5:20:06 PM

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MARK	DATE	DESCRIPTION
	12/12/18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL:02-116986
AC MW FLS VNE SS KG
DATE: 11 DEC 2018
AC X. ELLESOS
FLS Z. YONG
SS KRIS GANAPATHI

LICENSED ARCHITECT ★ WINDSOR ★ ERIC BAILEY ★ C-29052 ★ EXP. 07-31-2019 ★ STATE OF CALIFORNIA

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA
DRAWING TITLE
COVER

PROJECT NO.
18-10748

DRAWING
G000-2

ABBREVIATIONS: WHEN USED IN THESE DOCUMENTS SHALL CONFORM TO THE FOLLOWING LIST UNLESS OTHERWISE NOTED. DRAWINGS OF OTHER DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) MAY CONTAIN SPECIFIC ABBREVIATIONS, REFERENCES, AND LEGENDS WITH INTERPRETATION INTENDED ONLY FOR THOSE DISCIPLINES.

&	AND
L	ANGLE
@	AT
℄	CENTERLINE
ø	DIAMETER OR ROUND
⊥	PERPENDICULAR
#	POUND OR NUMBER
(E)	EXISTING
(N)	NEW
ABV.	ABOVE
A/C	AIR CONDITIONING
AGP	ASPHALT CONCRETE PAVING
ACST.	ACOUSTICAL
A.C.T.	ACOUSTIC CEILING TILE
A.B.	ANCHOR BOLT
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	ADA ACCESSIBLE GUIDELINES
ADDL.	ADDITIONAL
ADJ.	ADJUSTABLE
ADJC.	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AGG.	AGGREGATE
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
A.P.C.	ACOUSTIC PANEL CEILING
APPROX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
AV	AUDIO VISUAL
BD.	BOARD
BEL.	BELOW
B.E.N	BOUNDARY EDGE NAILING
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BRG.	BEARING
BTWN.	BETWEEN
B.U.R.	BUILT-UP ROOF(ING)
C&G	CURB AND GUTTER
CAB.	CABINET
C.B.	CARRIAGE BOLT
CEM.	CEMENT
CER.	CERAMIC
C.F.	CUBIC FOOT
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
C.L.	CENTER LINE
C.L.F.	CHAIN LINK FENCE
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CL.RM.	CLASS ROOM
CMU	CONCRETE MASONRY UNIT
CTR.	COUNTER
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CPT.	CARPET
CRC	COLD ROLLED CHANNEL
CTR.	CENTER
CTSK	COUNTERSUNK
C.Y.	CUBIC YARD
D.A.	DISABLED ACCESS
DBL.	DOUBLE
DEMO	DEMOLISH/ DEMOLITION
D.F.	DRINKING FOUNTAIN OR DOUGLAS FIR
DET.	DETAIL
DIAG.	DIAGONAL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
DP.	DEEP
DS	DOWN SPOUT
DWG.(S)	DRAWING
DWR.	DRAWER
E	EAST
EA.	EACH
E.F.	EXHAUST FAN
EGR.	ENGINEER
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRIC(AL)
ELEV.	ELEVATOR
EMB.	EMBEDMENT
EMER.	EMERGENCY
E.N.	EDGE NAILING
ENCL.	ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
EVAP.	EVAPORATIVE
E.W.	EACH WAY
EXH.	EXHAUST
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FA.	FIRE ALARM
F.B.	FLAT BAR
F.B.O.	FURNISHED BY OWNER/OTHERS
F.D.	FLOOR DRAIN
F.D.C.	FIRE DEPATMENT CONNECTION
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FACTORY FINISH
F.F.R.	FINISH FLOOR
F.G.	FINISH GRADE
F.H.	FIRE HYDRANT
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FIN.	FINISH
FXT.	FIXTURE
FLR.	FLOOR(ING)
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
FRP	FIBERGLASS REIN-FORCED PANELING
F.S.	FIRE SPRINKLER(S)
F.S.H.	FIRE SPRINKLER HEAD
FT.	FOOT/FEET
FURR.	FURRING
FUT.	FUTURE
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTR.
GEN.	GENERAL
G.I.	GALVANIZED IRON
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
H.B.	HOSE BIBB
HBD.	HARDBOARD
H.C.	HOLLOW CORE
HD.	HEAD
H.D.	HEAVY DUTY
HDR.	HEADER
HDW.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
H.M.D.	HOLLOW METAL DOOR
H.M.F.	HOLLOW METAL FRAME
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
HVAC	HEATING/VENTIL-ATING/AIR CONDI-TIONING
HWY	HIGH WAY
I.D.	INSIDE DIAMETER/ DIMENSION
INFO	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
KIT.	KITCHEN
K.O.	KNOCK OUT
K.O.P.	KNOCK OUT PANEL
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LB(S)	POUND (POUNDS)
L.B.	LAG BOLT
L.F.	LINEAL FOOT
L.H.	LEFT HAND
LIB.	LIBRARY
LT.	LIGHT
LT.WT.	LIGHT WEIGHT
MACH.	MACHINE
MAINT.	MAINTENANCE
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.B.M.	METAL BUILDING MANUFACTURER
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MET.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MKR.	MARKER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTG.	MEETING
MULL.	MULLION
N	NORTH
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.R.C.	NOISE REDUCTION COEFFICIENT
N.T.S.	NOT TO SCALE
OCC	OCCUPANT LOAD
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER/ DIMENSION
OFF.	OFFICE
OFCI	OWNER FURNISHED, CONTR. INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
O.F.R.D.	OVER FLOW ROOF DRAIN
O.H.	OPPOSITE HAND
O.H.C.D.	OVER HEAD COILING DOOR
O.H.M.S.	OVAL HEAD MACH. SCREW
O.H.W.S.	OVAL HEAD WOOD SCREW
OPNG.	OPENING
OPP.	OPPOSITE
OV	OVER
ORIG.	ORIGINAL
OVHD	OVER HEAD
OWJ	OPEN WEB JOIST
P.B.N.	PLYWOOD BOUNDARY NAILING
P.E.N.	PLYWOOD EDGE NAILING
P.E.S.	PLYWOOD EDGE SCREWS
P.I.V.	POST INDICATOR VALVE
P.LAM.	PLASTIC LAMINATE
P.L.	PROPERTY LINE
PL.	PLATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
PR.	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT.	POINT
P.T.D.	PAPER TOWEL DISP.
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PTN.	PARTITION
PVC	POLYVINYL CHLORIDE
R.	RADIUS
R	THERMAL RESISTANCE
R.A.	RETURN AIR
R.D.	ROOF DRAIN
REFL.	REFLECTED
REFR	REFRIGERATOR
REINF.	REINFORCED
REM.	REMOVE
REQD.	REQUIRED
RESIL.	RESILIENT
R.H.	RIGHT HAND
R.H.W.S.	ROUND HEAD WOOD SCREW
RM.	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT-OF-WAY
RWD.	REDWOOD
RWL	RAIN WATER LEADER
S	SOUTH
S.A.	SUPPLY AIR
S.C.	SOLID CORE
SCH.	SCHEDULE
S.D.	STORM DRAIN
SECT.	SECTION
SF	SQUARE FEET/FOOT
SHR.	SHOWER
SHTG.	SHEATHING
SIM.	SIMILAR
S.M.	SHEET METAL
S.O.G.	SLAB-ON-GRADE
SPEC(S).	SPECIFICATION(S)
SPKR.	SPEAKER
SQ.	SQUARE
S.S.	STAINLESS STEEL
STA.	STATION
STC	SOUND TRANS-MISSION CLASS
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
S.W.	SIDE WALK
SYM.	SYMMETRICAL
T.C.	TOP OF CONCRETE
TEMP.	TEMPORARY
TMPD.	TEMPERED
T&G	TONGUE AND GROOVE
THD.	THREADED
THK.	THICK
T.I.	TENANT IMPROVEMENT
TK.BD.	TACK BOARD
T.O.S.	TOP OF STEEL
T.P.	TOP OF PAVEMENT
TS	TUBE STEEL
TEL.	TELEPHONE
TTB	TELEPHONE TERM-INAL BACK BD.
TV	TELEVISION
TYP.	TYPICAL
U.G.	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
UR.	URINAL
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
V.TR	VENT TO ROOF
VWC	VINYL WALL COVERING
W	WEST OR WIDTHWIDE
W/	WITH
W.C.	WATER CLOSET
W.CH.	WHEEL CHAIR
WD.	WOOD
WDW.	WINDOW
WF.	WIDE FLANGE
W.H.	WATER HEATER
W/O	WITHOUT
W.P.	WATERPROOF
W.S.	WOOD SCREW
WT.	WEIGHT
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

CODES AND ORGANIZATIONS

CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CMC	CALIFORNIA MECHANICAL CODE
CPC	CALIFORNIA PLUMBING CODE
DSA	DIVISION OF THE STATE ARCHITECT
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
NSF	NATIONAL SANITATION FOUNDATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NEC	NATIONAL ELECTRICAL CODE
UBC	UNIFORM BUILDING CODE
UFC	UNIFORM FIRE CODE
UMC	UNIFORM MECHANICAL CODE
UPC	UNIFORM PLUMBING CODE

ABBREVIATIONS N.T.S. 25

GENERAL:

PROJECT ADDRESS:
MADERA SOUTH HIGH SCHOOL
705 W. PECAN AVE.
MADERA, CA 93637
(559) 675-4450

PROJECT DESCRIPTION:

THE PROJECT SHALL CONSIST OF THE FOLLOWING ITEMS HERE IN TO INCLUDE BUT NOT NECESSARILY LIMITED TO:

INCREMENT 1:
SITE:
- NEW SYNTHETIC TRACK AND FIELD WITH GOAL POST, SHOT PUT WITH CAGE, PERIMETER TRACK FENCING
- MONUMENT ENTRY STRUCTURE, ORNAMENTAL FENCING
- SITE CONCRETE, CHAINLINK FENCING AND GATES, LANDSCAPE, CONCRETE BENCHES
- ELECTRICAL, SITE UTILITIES, AND ASSOCIATED SITE WORK

HOMESIDE:
- NEW 2000 +/- SEAT ALUMINUM ANGLE FRAME BLEACHERS AND ASSOCIATED STAIRS, RAMPS, FOUNDATIONS, AND PRESS BOX.

VISITORSIDE:
- RAISED CONCRETE PLATFORM WITH ACCESSIBLE RAMPS WITH HANDRAILS

INCREMENT 2:
- CONCESSION/RESTROOM BUILDING
- RESTROOM/STORAGE BUILDING
- TICKETBOOTH BUILDING

ENFORCING AGENCY:

- DIVISION OF THE STATE ARCHITECT, SACRAMENTO

GOVERNING CODES

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R., EFFECTIVE JULY 1, 2017
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
2016 CALIFORNIA ENERGY CODE, PART 6, EFFECTIVE JULY 1, 2014
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART II, TITLE 24 C.C.R.
1990 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
NFPA 13 STANDARDS FOR THE INSTALLATION OF FIRE SPRINKLERS (2016 EDITION - CA AMENDED)
NFPA 24 STANDARDS FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (2016 EDITION - CA AMENDED)
NFPA 25 STANDARD FOR INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (2013 CA EDITION)
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2016 EDITION)
UL 38 MANUAL SIGNALING BOXES FOR FIRE ALARM SYSTEMS (2005 EDITION)
UL 268 SMOKE DETECTORS AND FIRE ALARM SYSTEMS (2009 EDITION)
UL 268A SMOKE DETECTORS FOR DUCT APPLICATIONS(1998 EDITION)
UL 464 AUDIBLE SIGNAL APPLIANCES (2003 EDITION)
UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (1999 EDITION)
UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION)
AMERICANS WITH DISABILITIES ACT

PROJECT INFORMATION N.T.S. 19

NOTES

1. A COPY TITLE 24 C.C.R. PARTS 1 AND 2 SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) AS REQUIRED IN SECTION 4-338, PART I, CAC, AND SHALL BE SUBMITTED TO, AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF TITLE 24 SECTION 4-335, PART 1, AND APPROVED T & I SHEET.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-335, PART I, AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RETEST MAY BE BACK CHARGED TO THE CONTRACTOR.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE CONCRETE PER TITLE 24 SECTION 4-331, PART I.
6. A CLASS 2 INSPECTOR REQUIRED FOR THIS PROJECT SHALL BE EMPLOYED BY OWNER AND APPROVED BY ARCHITECT, STRUCTURAL ENGINEER, AND DSA. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(a). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-342, PART I.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-334, PART 1.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH TITLE 24 SECTION 4-336, PART I.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-333(a) AND 4-341, PART I.
10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-343, PART I.
11. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24 C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
12. DSA IS NOT SUBJECT TO ARBITRATION
13. SUBSTITUTIONS AND REQUESTS FOR INFORMATION AFFECTING STRUCTURAL SAFETY, FIRE AND LIFE SAFETY OR ACCESS COMPLIANCE SHALL BE APPROVED BY DSA PRIOR TO FABRICATION OR USE.
14. ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA.
15. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
16. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
17. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
    - ARCHITECT OR ENGINEER OF RECORD
    - STRUCTURAL ENGINEER (WHEN APPLICABLE)
    - DELEGATED PROFESSIONAL ENGINEER
18. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMENDATIONS.
19. PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.
20. THESE PLANS AND SPECIFICATIONS WILL COMPLY WITH CFC CHAPTER 33-FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
21. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

STATEMENT OF GENERAL CONFORMANCE

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

APPLICATION NO:. 02-116986 FILE NO.: 20-H3

THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

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

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

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

I CERTIFY THAT:

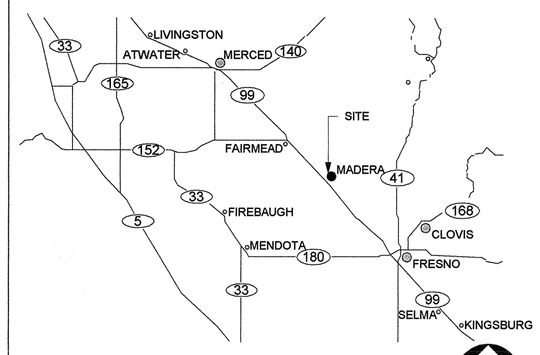
☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX
☐ THIS DRAWING OR PAGE

IS/ARE IN GENERAL CONFORMANCE AND HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

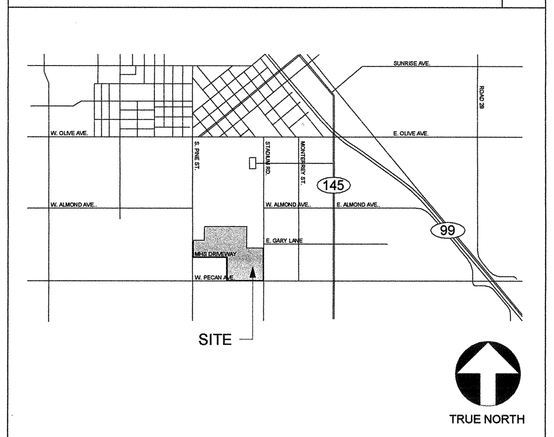
ARCHITECT'S SIGNATURE — DATE 12/7/18
ROBERT V. THORNTON
ARCHITECT/ PARTNER
TETER, LLP

C-29052 — 07-31-19
LICENSE NUMBER — EXPIRATION DATE

ARCHITECT'S STATEMENT N.T.S. 14



AREA MAP N.T.S. 8



VICINITY MAP N.T.S. 9

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PROJECT DIRECTORY N.T.S. 10

GENERAL		
	G000-2	COVER
	G001-2	BUILDING ANALYSIS & ABBREVIATIONS
ARCHITECTURAL		
	A100-2	OVERALL SITE PLAN
	A100FA-2	OVERALL SITE PLAN - FIRE AUTHORITY REVIEW (FOR REFERENCE ONLY)
	A200-2	BUILDING 'AA' & 'BB' FLOOR PLANS
	A210-2	BUILDING 'Z' PLANS AND ELEVATIONS
	A300-2	BUILDING 'AA' & 'BB' EXTERIOR ELEVATIONS
	A400-2	BUILDING 'AA' & 'BB' SECTIONS
	A500-2	BUILDING 'AA' & 'BB' ROOF PLANS
	A600-2	BUILDING 'AA' & 'BB' REFLECTED CEILING PLANS
	A700-2	DOOR, WINDOW, AND FINISH SCHEDULES
	A800-2	DETAILS
	A801-2	DETAILS
	A802-2	DETAILS
	A900-2	BUILDING 'AA' - INTERIOR ELEVATIONS
	A901-2	BUILDING 'BB' - INTERIOR ELEVATIONS
STRUCTURAL		
	S000-2	GENERAL NOTES
	S001-2	GENERAL NOTES
	S002-2	TYPICAL DETAILS - FOUNDATION
	S003-2	TYPICAL DETAILS - MASONRY
	S004-2	TYPICAL DETAILS - STEEL
	S100-2	BUILDING 'AA' & 'BB' FOUNDATION PLANS
	S101-2	BLDG. 'Z' FDN PLAN, ROOF FRMG. PLAN, & MASONRY WALL ELEVS.
	S300-2	BUILDING 'AA' & 'BB' ROOF FRAMING PLANS
	S400-2	BUILDING 'AA' MASONRY WALL ELEVATIONS
	S401-2	BUILING 'BB' MASONRY WALL ELEVATIONS
	S500-2	FOUNDATION DETAILS
	S600-2	ROOF FRAMING DETAILS
PLUMBING		
	P001-2	PLUMBING SCHEDULE, LEGEND, NOTES & DETAILS
	P100-2	PLUMBING SITE PLAN
	P200-2	PLUMBING PLAN
MECHANICAL		
	M001-2	MECHANICAL SCHEDULES, LEGENDS & NOTES
	M200-2	MECHANICAL PLANS
	M800-2	MECHANICAL DETAILS
	M900-2	TITLE 24 DOCUMENTATION
ELECTRICAL		
	E100-2	ELECTRICAL SITE PLAN
	E200-2	POWER PLANS
	E300-2	LIGHTING PLANS
	E400-2	SIGNAL PLANS
	E500-2	FIRE ALARM PLANS
	E600-2	ELECTRICAL DETAILS
	E700-2	SINGLE LINE DIAGRAM
	E710-2	FIRE ALARM RISER DIAGRAM & CALCULATIONS
	E800-2	ELECTRICAL SCHEDULES, LEGENDS, AND NOTES
	E801-2	PANEL SCHEDULES
	E802-2	PANEL SCHEDULES
	E900-2	CALIFORNIA ENERGY CODE COMPLIANCE

DRAWING INDEX N.T.S. 4

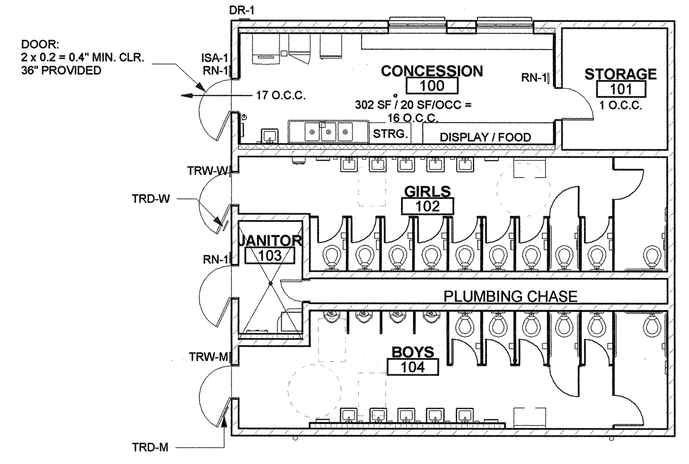
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CODE ANALYSIS

BUILDING 'BB' - CONCESSION/RESTROOM:

CONSTRUCTION TYPE: V-B (NON-RATED, NON SPRINKLERED)
BUILDING OCCUPANCY: 'E' - EDUCATION K-12 GRADE NUMBER OF STORIES:
ALLOWABLE: 1
ACTUAL: 1
AREA:
ALLOWABLE: 9500 SF
ACTUAL: 1599 SF (BUILDING) + 486 (OVERHANG) = 2,085 SF

SPRINKLERS NOT REQUIRED



NOTE:
FOR SIGNAGE, SEE 24 / A800-2

PROJECT NORTH

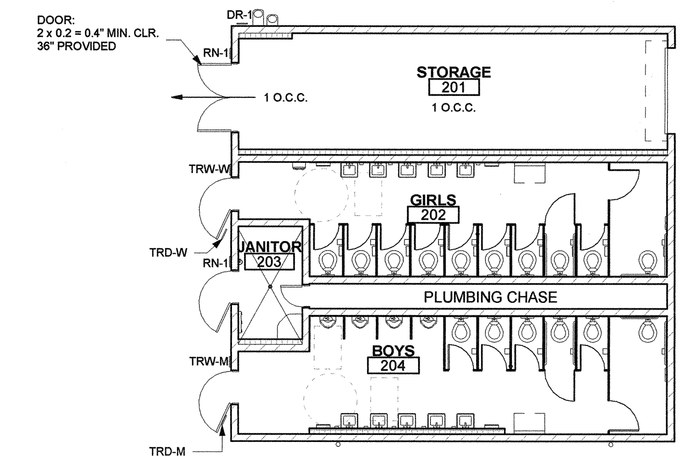
BUILDING 'BB' - CONCESSION - SIGNAGE AND OCCUPANT LOAD — 1/8" = 1'-0" — 2

CODE ANALYSIS

BUILDING 'AA' - RESTROOM/STORAGE:

CONSTRUCTION TYPE: V-B (NON-RATED, NON SPRINKLERED)
BUILDING OCCUPANCY: 'E' - EDUCATION K-12 GRADE NUMBER OF STORIES:
ALLOWABLE: 1
ACTUAL: 1
AREA:
ALLOWABLE: 9500 SF
ACTUAL: 1599 SF (BUILDING) + 356 (OVERHANG) = 1,955 SF

SPRINKLERS NOT REQUIRED



NOTE:
FOR SIGNAGE, SEE 24 / A800-2

PROJECT NORTH

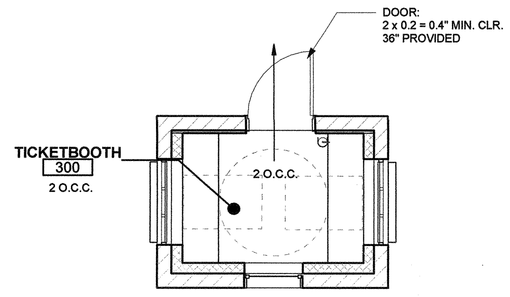
BUILDING 'AA' - RESTROOM - SIGNAGE AND OCCUPANT LOAD — 1/8" = 1'-0" — 4

CODE ANALYSIS

BUILDING 'Z' - TICKETBOOTH:

CONSTRUCTION TYPE: V-B (NON-RATED, NON SPRINKLERED)
BUILDING OCCUPANCY: 'B' - EDUCATION K-12 GRADE NUMBER OF STORIES:
ALLOWABLE: 1
ACTUAL: 1
AREA:
ALLOWABLE: 9000 SF
ACTUAL: 86 SF (BUILDING) + 11 (OVERHANG) = 96 SF

SPRINKLERS NOT REQUIRED



NOTE:
FOR SIGNAGE, SEE 24 / A800-2

PROJECT NORTH

BUILDING 'Z' - TICKETBOOTH - SIGNAGE AND OCCUPANT LOAD — 1/4" = 1'-0" — 5

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MARK	DATE	DESCRIPTION
	12/12/18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL: 02-116986

AC FLS SS KG

DATE: 11 DEC 2018

LICENSED ARCHITECT * KEVIN CHRISTOPHER WINDOLPH * No. C-29052 * STATE OF CALIFORNIA

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

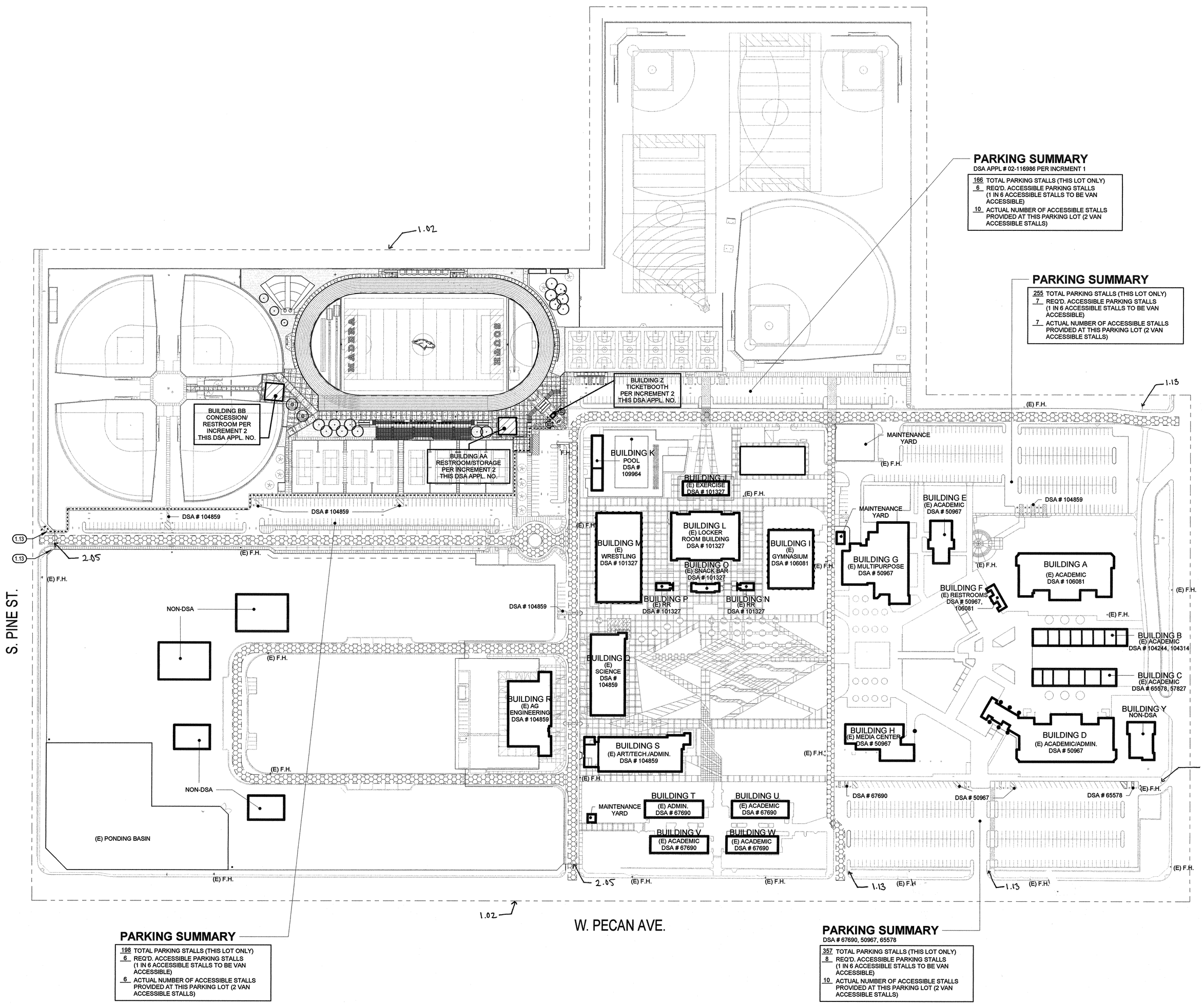
DRAWING TITLE
BUILDING ANALYSIS & ABBREVIATIONS

PROJECT NO.
18-10748

DRAWING
G001-2

PLOT DATE: 12/8/2018 5:20:10 PM

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PARKING SUMMARY
DSA APPL # 02-116986 PER INCRMENT 1

166 TOTAL PARKING STALLS (THIS LOT ONLY)
6 REQ'D. ACCESSIBLE PARKING STALLS (1 IN 6 ACCESSIBLE STALLS TO BE VAN ACCESSIBLE)
10 ACTUAL NUMBER OF ACCESSIBLE STALLS PROVIDED AT THIS PARKING LOT (2 VAN ACCESSIBLE STALLS)

PARKING SUMMARY

255 TOTAL PARKING STALLS (THIS LOT ONLY)
7 REQ'D. ACCESSIBLE PARKING STALLS (1 IN 6 ACCESSIBLE STALLS TO BE VAN ACCESSIBLE)
7 ACTUAL NUMBER OF ACCESSIBLE STALLS PROVIDED AT THIS PARKING LOT (2 VAN ACCESSIBLE STALLS)

PARKING SUMMARY

198 TOTAL PARKING STALLS (THIS LOT ONLY)
6 REQ'D. ACCESSIBLE PARKING STALLS (1 IN 6 ACCESSIBLE STALLS TO BE VAN ACCESSIBLE)
6 ACTUAL NUMBER OF ACCESSIBLE STALLS PROVIDED AT THIS PARKING LOT (2 VAN ACCESSIBLE STALLS)

PARKING SUMMARY
DSA # 67690, 50967, 65578

357 TOTAL PARKING STALLS (THIS LOT ONLY)
8 REQ'D. ACCESSIBLE PARKING STALLS (1 IN 6 ACCESSIBLE STALLS TO BE VAN ACCESSIBLE)
10 ACTUAL NUMBER OF ACCESSIBLE STALLS PROVIDED AT THIS PARKING LOT (2 VAN ACCESSIBLE STALLS)

TRUE NORTH

KEYNOTES

NO.	KEYNOTE
1.02	ASSUMED PROPERTY LINE
1.13	PARKING ENTRANCE SIGNAGE DSA APPL. #02-104859
2.05	EXISTING CHAIN LINK GATE

LEGEND

- F.H. — NEW FIRE HYDRANT
- (E) F.H. — EXISTING FIRE HYDRANT
- ASSUMED PROPERTY LINE
- 20'-0" WIDE FIRE LANE
- NEW PROPOSED BUILDING
- ACCESSIBLE PATH OF TRAVEL (2016 C.B.C. SECTIONS 11B - 202.4 AND 11B - 401)

ACCESSIBLE PATH OF TRAVEL IS A 4'-0" MIN. WIDE BARRIER FREE ACCESS WITHOUT ANY ABRUPT CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AS REQUIRED BY SECTION 11B - 303.1. MAXIMUM CROSS SLOPE OF 2% SLOPE IN THE DIRECTION OF TRAVEL DOES NOT EXCEED 5% U.N.O. ACCESSIBLE PATH OF TRAVEL SHALL NOT HAVE A DROP-OFF OVER 4" VERTICAL @ EDGE OF ROUTE OR LANDING PER C.B.C. SECTION 11B - 303.5 AT HAZARDOUS VEHICULAR AREAS DETECTABLE WARNING SURFACES SHALL BE PROVIDED PER C.B.C. SECTION 11B - 705.

DESIGN PROFESSIONAL IN CHARGE STATEMENT:

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITH THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE C.B.C. AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION DOCUMENT CHANGE.

GENERAL NOTES

A. KEYNOTES APPLY TO THIS SHEET ONLY.

B. REFER TO CIVIL, LANDSCAPE, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL: 02-116986

AC FLS SS KG

DATE: 17 DEC 2018

17 DEC 2018

LICENSED ARCHITECT ROBERT WINSHIP TETER C-29092 STATE OF CALIFORNIA

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

TETER

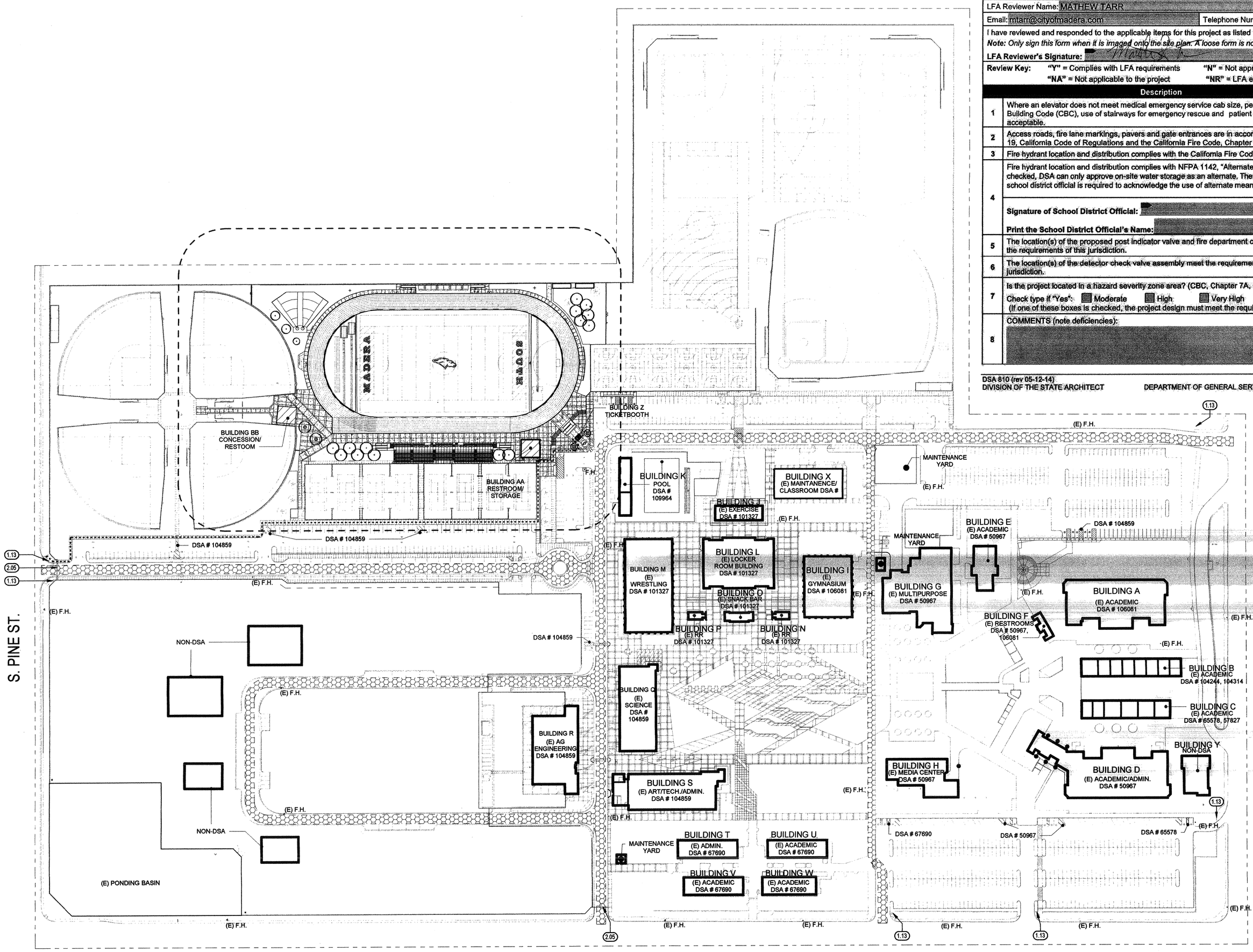
STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
OVERALL SITE PLAN

PROJECT NO.
18-10748

DRAWING
A100-2

C:\Users\Elizabeth.Contreras\Documents\10748-A-MADERA SOUTH HS STADIUM EXPANSION-2017NEW_elizabeth.contreras.N2QGK.rvt



DSA 810

LOCAL FIRE AUTHORITY REVIEW

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

PROJECT INFORMATION

School District/Owner:	MADERA UNIFIED SCHOOL DISTRICT
Project Name/School:	STADIUM MODERNIZATION/MADERA SOUTH HIGH SCHOOL
Project Address:	705 W. PECAN AVE. MADERA, CA 93637

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name:	MADERA FIRE DEPARTMENT
LFA Reviewer Name:	MATHEW TARR
Title:	FIRE MARSHALL
Email:	mtarr@cityofmadera.com
Telephone Number:	559-661-5442

I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.
LFA Reviewer's Signature: Date: 8/15/18

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

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

DSA 810 (rev 05-12-14) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 1 STATE OF CALIFORNIA

KEYNOTES (00.00)

NO.	KEYNOTE
1.13	PARKING ENTRANCE SIGNAGE DSA APPL. # 02-104859
2.05	EXISTING CHAIN LINK GATE

LEGEND

F.H.	NEW FIRE HYDRANT
(E) F.H.	EXISTING FIRE HYDRANT
	ASSUMED PROPERTY LINE
	20'-0" WIDE FIRE LANE
	NEW PROPOSED BUILDING, PER INCREMENT 2
	ACCESSIBLE PATH OF TRAVEL (2016 C.B.C. SECTIONS 11B - 202.4 AND 11B - 401)

ACCESSIBLE PATH OF TRAVEL IS A 4'-0" MIN. WIDE BARRIER FREE ACCESS WITHOUT ANY ABRUPT CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AS REQUIRED BY SECTION 11B - 303.1. MAXIMUM CROSS SLOPE OF 2% SLOPE IN THE DIRECTION OF TRAVEL DOES NOT EXCEED 5% U.N.O.
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MARK	DATE	DESCRIPTION
	08/20/18	100% CD DSA SUBMITTAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL: 02-116986
AC FLS SS KG
DATE: 11 DEC 2018

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FRESNO HEADQUARTERS
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ARCHITECTS ENGINEERS CONNECTED

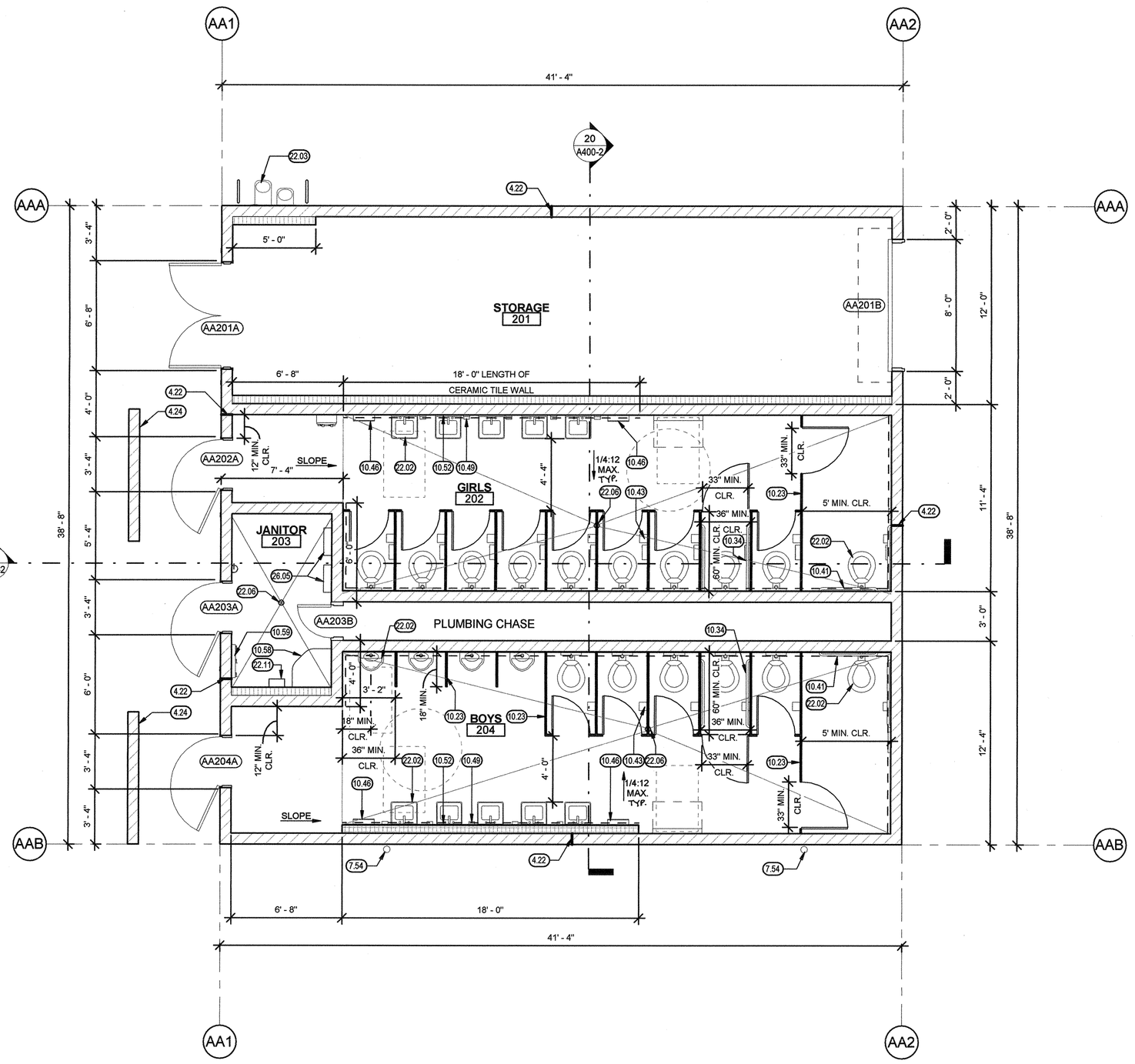
STADIUM MODERNIZATION INCREMENT NO.2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
OVERALL SITE PLAN - FIRE AUTHORITY REVIEW (FOR REFERENCE ONLY)

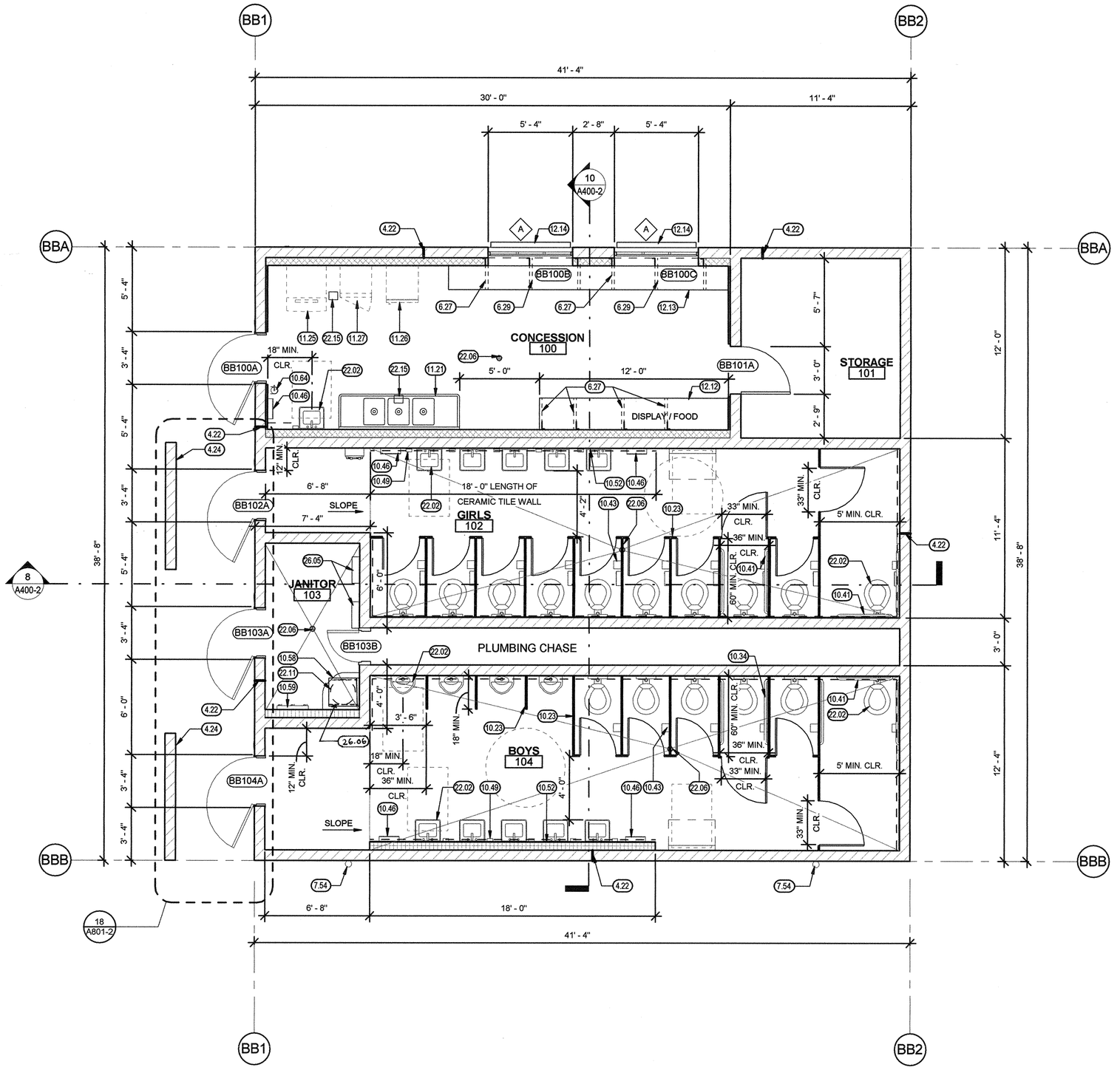
PROJECT NO.
18-10748

DRAWING
A100FA-2

PLOT DATE: 8/15/2018 8:23:16 AM



BUILDING 'AA' - RESTROOM FLOOR PLAN 1/4" = 1'-0" | 10



BUILDING 'BB' - CONCESSION FLOOR PLAN 1/4" = 1'-0" | 8

KEYNOTES (00.00)

NO.	KEYNOTE
4.22	CMU CONTROL JOINT, REFER TO STRUCTURAL
4.24	CMU SCREEN WALL
6.27	COUNTER TOP SUPPORT, SEE 17/A801-2
6.29	LOW WALL COUNTER TOP SUPPORT, SEE 12/A801-2
7.54	DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAIN SYSTEM, SEE 13/A801-2, AND REFER TO CIVIL PER INCREMENT 1
10.23	TOILET PARTITION, TYP., SEE 7/A801-2
10.34	48" LONG TOILET GRAB BAR, TYP., SEE 30/A800-2
10.41	GRAB BAR, TYP., SEE 30/A800-2
10.43	TOILET PAPER DISPENSER, TYP.
10.46	PAPER TOWEL DISPENSER, TYP.
10.49	SOAP DISPENSER, ONE PER EACH LAVATORY
10.52	MIRROR (18" x 30"), ONE PER EACH LAVATORY, SEE 9/A801-2, 14/A801-2
10.58	MOP SINK, REFER TO PLUMBING
10.59	MOP HOLDER, SEE 6/A801-2
10.64	FIRE EXTINGUISHER, MIN. 2A: 10B: C, SEE 20/A800-2
11.21	THREE COMPARTMENT SINK, REFER TO PLUMBING
11.25	ICE MACHINE, OWNER FURNISHED CONTRACTOR INSTALLED
11.26	REFRIGERATOR DISPLAY, OWNER FURNISHED CONTRACTOR INSTALLED
11.27	FREEZER DISPLAY, OWNER FURNISHED CONTRACTOR INSTALLED

NO.	KEYNOTE
12.12	24" DEEP STAINLESS STEEL COUNTER TOP, SEE 17/A801-2
12.13	20" DEEP STAINLESS STEEL COUNTER TOP, SEE 12/A801-2
12.14	STAINLESS STEEL COUNTER TOP - TYP., SEE 11/A801-2
22.02	PLUMBING FIXTURE TYP., REFER TO PLUMBING
22.03	ACCESSIBLE HIGH-LOW DRINKING FOUNTAIN, REFER TO PLUMBING, SEE 9/A800-2, 15/A800-2
22.06	FLOOR DRAIN, REFER TO PLUMBING
22.11	WATER HEATER ABOVE ON PLATFORM, SEE PLUMBING
22.15	FLOOR SINK, REFER TO PLUMBING
26.05	ELECTRICAL PANEL, SEE ELECTRICAL
26.06	WATER HEATER PLATFORM, REFER TO PLUMBING

LEGEND

- CERAMIC WALL TILE OVER THICKSET MORTAR BED OVER CMU WALL, SEE FINISH SCHEDULE, INTERIOR ELEVATIONS, AND 4 / A801-2
- 1 1/2" 'Z' FURRING @ 24" O.C. W/ FIBERGLASS REINFORCED PANELING OVER WATER RESISTANCE GYPSUM BACKER BOARD OVER RIGID INSULATION
- 6" METAL STUDS @ 16" O.C. W/ GYPSUM BOARD BACKER BOARD SEE FINISH SCHEDULE AND 3/A801-2
- 6" METAL STUDS @ 16" O.C., W/ CERAMIC TILE OVER THINSET MORTAR BED OVER GYPSUM BACKER BOARD
- 8" CMU WALL WITH WATER REPELLANT COATING
- 6" METAL STUDS @ 16" O.C. W/ FIBERGLASS REINFORCED PANELING OVER WATER RESISTANCE GYPSUM BACKER BOARD OVER ADHERED 2" THICK RIGID INSULATION
- WINDOW ASSEMBLY, SEE WINDOW SCHEDULE

- CEILING ACCESS, SEE 27 / A801-2
- FLOOR DRAIN, SEE PLUMBING DRAWINGS, SLOPE FLOOR TO DRAIN 2% MAX.
- 30" x 48" WHEELCHAIR CLEAR SPACE
- 60" DIAMETER WHEELCHAIR TURNAROUND
- WINDOW REFERENCE, SEE SHEET A700-2
- DOOR REFERENCE, SEE SHEET A700-2
- DOOR AND FRAME, SEE DOOR SCHEDULE
  - ACTIVE LEAF
  - INACTIVE LEAF (DASHED)
- DOOR AND FRAME, SEE DOOR SCHEDULE AND 3 / A800-2

GENERAL NOTES

A. ALL BUILDING UTILITY TRANSITIONS SHALL BE CONCEALED WITHIN WALL CAVITIES AND SHALL TRANSITION BELOW GRADE TO POINT OF CONNECTION OUTSIDE OF THE BUILDING.

B. SEE PLUMBING, MECHANICAL & ELECTRICAL PLANS FOR MORE INFORMATION.

C. KEYNOTES APPLY TO THIS SHEET ONLY.

D. REFER TO 2 / A800-2 FOR ACCESSIBILITY.

PLOT DATE: 12/8/2018 5:18:49 PM

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FILE NUMBER: 20-H3
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APPL: 02-116986

AC FLS SS KG

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LICENSED ARCHITECT ★ VINCENT KOH ★ No. 29862 ★ STATE OF CALIFORNIA

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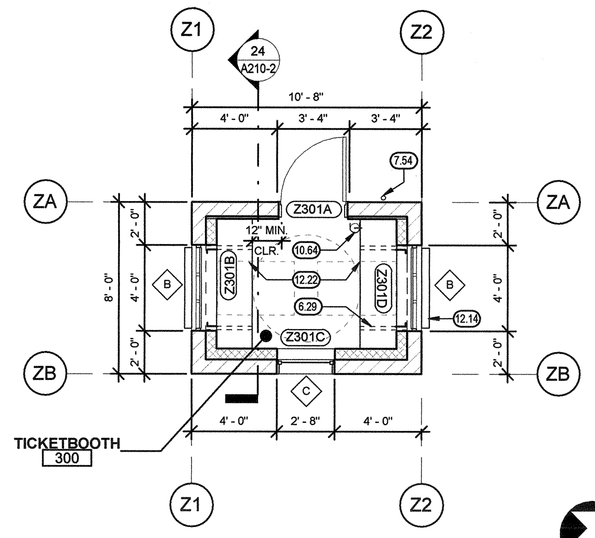
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MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
BUILDING 'AA' & 'BB' FLOOR PLANS

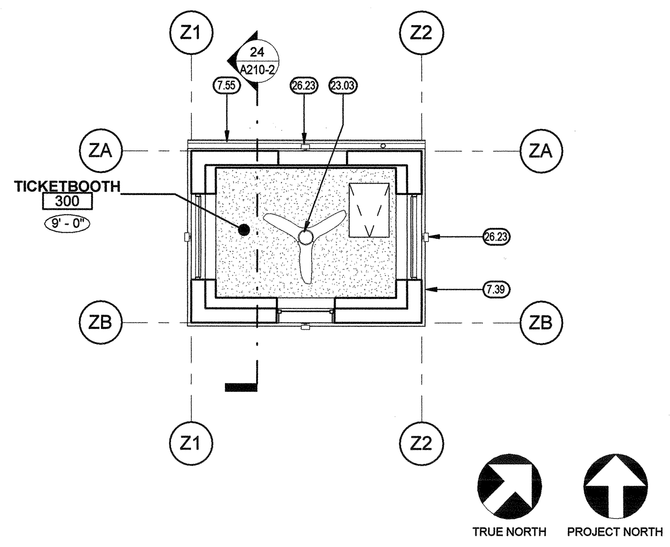
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18-10748

DRAWING
A200-2

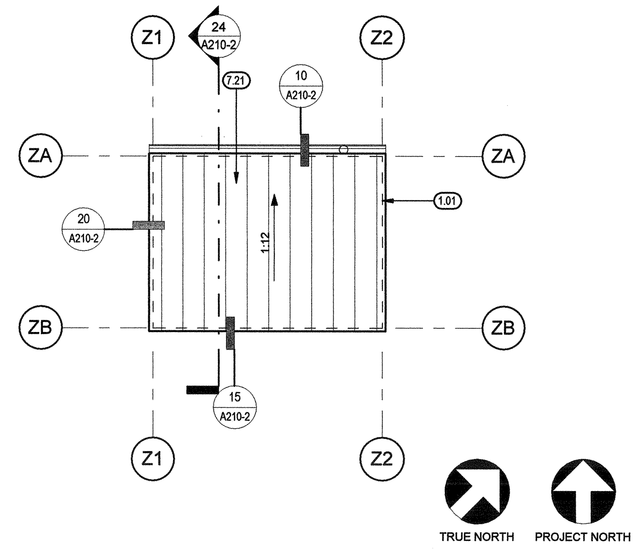
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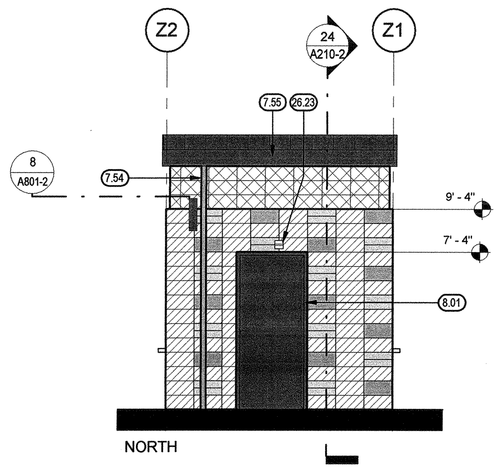
BUILDING 'Z' - TICKETBOOTH FLOOR PLAN 1/4" = 1'-0" | 22



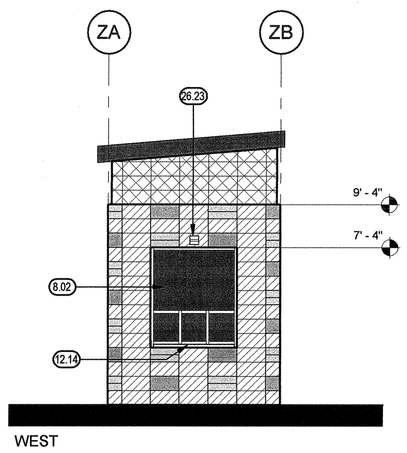
BUILDING 'Z' - TICKETBOOTH REFLECTED CEILING PLAN 1/4" = 1'-0" | 12



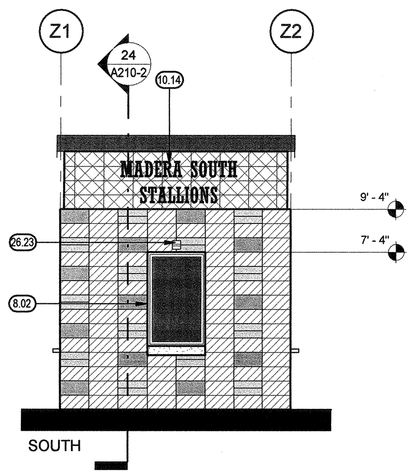
BUILDING 'Z' - TICKETBOOTH ROOF PLAN 1/4" = 1'-0" | 7



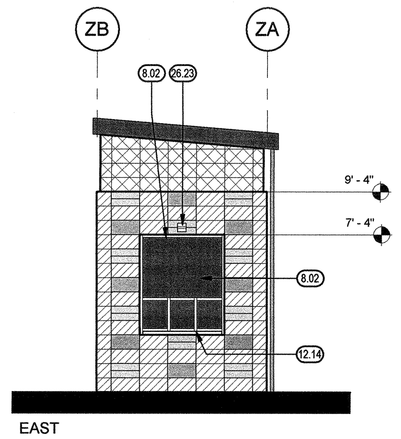
NORTH



WEST

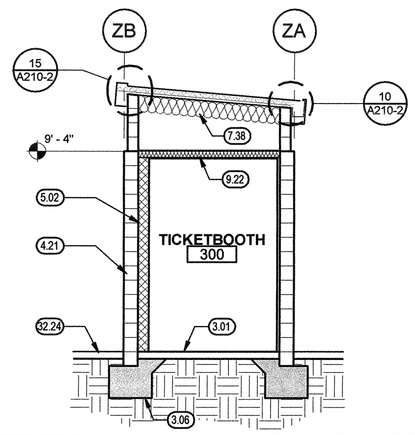


SOUTH

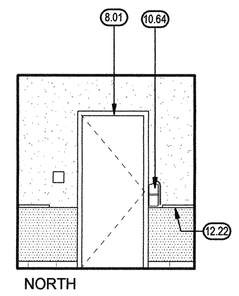


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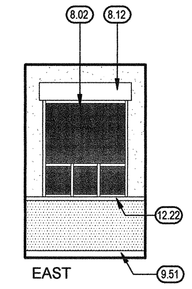
BUILDING 'Z' - TICKETBOOTH BUILDING EXTERIOR ELEVATIONS 1/4" = 1'-0" | 8



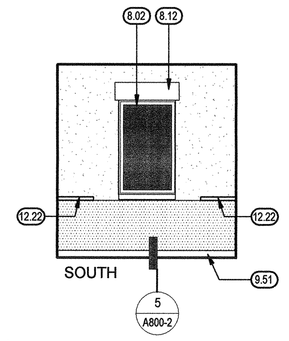
BUILDING 'Z' - TICKETBOOTH 1/4" = 1'-0" | 24



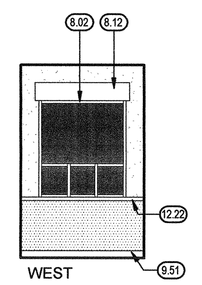
NORTH



EAST



SOUTH

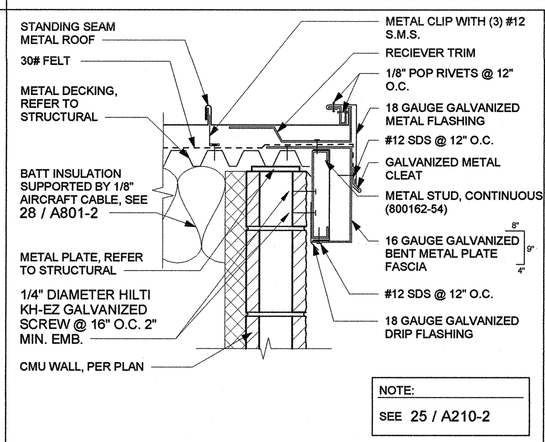


WEST

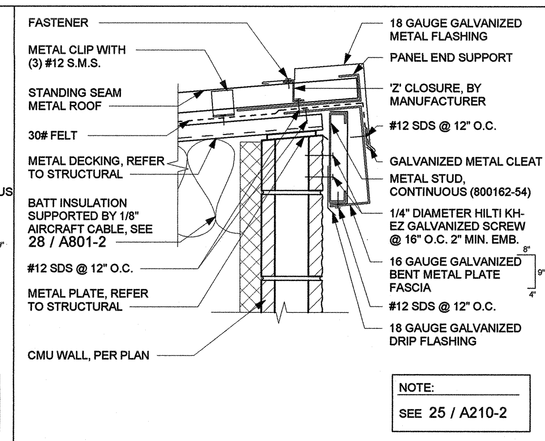
BUILDING 'Z' - TICKETBOOTH - ROOM 300 INTERIOR ELEVATIONS 1/4" = 1'-0" | 9

NOTE:
1. AT LOCATIONS WITHOUT OVERHANGS PROVIDE CLIP @ 4'-0" O.C.
2. AT LOCATIONS WITH OVERHANGS PROVIDE CLIP @ 2' - 6" O.C.

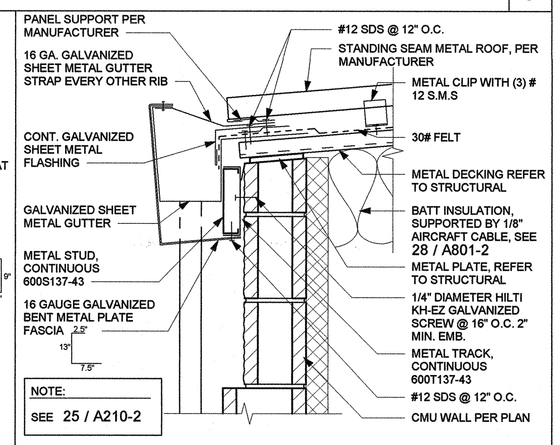
CLIP LOCATION N.T.S. | 25



GABLE END 1 1/2" = 1'-0" | 20



HIGH EAVE 1 1/2" = 1'-0" | 15



CONCEALED GUTTER 1 1/2" = 1'-0" | 10

KEYNOTES (00.00)

NO.	KEYNOTE
1.01	DASHED LINE INDICATES PERIMETER OF BUILDING
3.01	CONCRETE SLAB, REFER TO STRUCTURAL
3.06	FOUNDATION, REFER TO STRUCTURAL
4.21	CMU WALL, PER PLAN, REFER TO STRUCTURAL
5.02	METAL STUD WALL, REFER TO STRUCTURAL
6.29	LOW WALL COUNTER TOP SUPPORT, SEE 12/A801-2
7.21	STANDING SEAM METAL ROOF, CLASS A
7.38	SINGLE FACED BATT INSULATION SUPPORTED BY 1/8" THICK STEEL AIRCRAFT CABLES @24" O.C. TYP., SEE 28/A801-2
7.39	EDGE OF METAL ROOF
7.54	DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAIN SYSTEM, SEE 13/A801-2, AND REFER TO CIVIL PER INCREMENT 1
7.55	CONCEALED METAL GUTTER, SEE 10/210-2
8.01	DOOR AND FRAME - SEE DOOR SCHEDULE
8.02	WINDOW, SEE WINDOW SCHEDULE
8.12	OVERHEAD COILING COUNTER DOOR
9.22	METAL STUD CEILING JOIST, SEE 14/A800-2
9.51	BASE PER SCHEDULE, TYP.
10.14	9" HIGH THREE DIMENSIONAL LETTERS, PROVIDED BY SIGN MANUFACTURER, SEE XX/XXX
10.64	FIRE EXTINGUISHER, MIN. 2A: 10B: C, SEE 20/A800-2
12.14	STAINLESS STEEL COUNTER TOP - TYP., SEE 11/A801-2
12.22	20" DEEP STAINLESS STEEL COUNTER TOP, SEE 17/A801-2
23.03	52" DIAMETER CEILING FAN WITH LIGHT KIT CENTERED IN ROOM, MFR: BIG ASS FAN MODEL: HAIKU L
26.23	EXTERIOR LIGHTING, REFER TO ELECTRICAL
32.24	CONCRETE WALKWAY, REFER TO CIVIL PER INCREMENT 1

LEGEND

- 8" CMU WALL
- 1 1/2" 'Z' FURRING @ 24" O.C. W/FIBERGLASS REINFORCED PANELING OVER WATER RESISTANCE GYPSUM BACKER BOARD OVER RIGID INSULATION, SEE INTERIOR ELEVATIONS 9 / A210-2
- 6" METAL STUDS @ 16" O.C. W/ FIBERGLASS REINFORCED PANELING OVER WATER RESISTANCE GYPSUM BACKERBOARD OVER ADHERED 2" THICK RIGID INSULATION, SEE INTERIOR ELEVATIONS 9 / A210-2
- WINDOW ASSEMBLY, SEE WINDOW SCHEDULE
- DOOR AND FRAME, SEE DOOR SCHEDULE
- 60" DIAMETER WHEEL CHAIR ACCESSIBLE TURNAROUND
- 30" x 48" CLEAR FLOOR AREA FOR WHEEL CHAIR ACCESSIBILITY
- (#) WINDOW TAG, SEE SCHEDULE
- (#) DOOR TAG, SEE SCHEDULE
- (X' - X") CEILING HEIGHT
- 8 x 8 x 16 CMU STACKED BLOCK (PRECISION)
- 8 x 8 x 16 CMU STACKED BLOCK (BURNISHED)
- 8 x 8 x 16 CMU STACKED BLOCK (PRECISION W/HORIZONTAL SCORE LINE)
- 6 x 8 x 16 CMU STACKED BLOCK (SPLIT FACE)
- GYP. BD.
- FIBERGLASS REINFORCED PLASTIC - SEE FINISH SCHEDULE
- CEILING ACCESS, SEE (27 / A801-2)

GENERAL NOTES

A. ALL BUILDING UTILITY TRANSITIONS SHALL BE CONCEALED WITHIN WALL CAVITIES AND SHALL TRANSITION BELOW GRADE TO POINT OF CONNECTION OUTSIDE OF THE BUILDING.

B. SEE PLUMBING, MECHANICAL & ELECTRICAL PLANS FOR MORE INFORMATION.

C. KEYNOTES APPLY TO THIS SHEET ONLY.

D. FOLLOW PATTERN OF CMU BLOCK FINISH AS INDICATED ON EXTERIOR ELEVATIONS.

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STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
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MADERA, CA

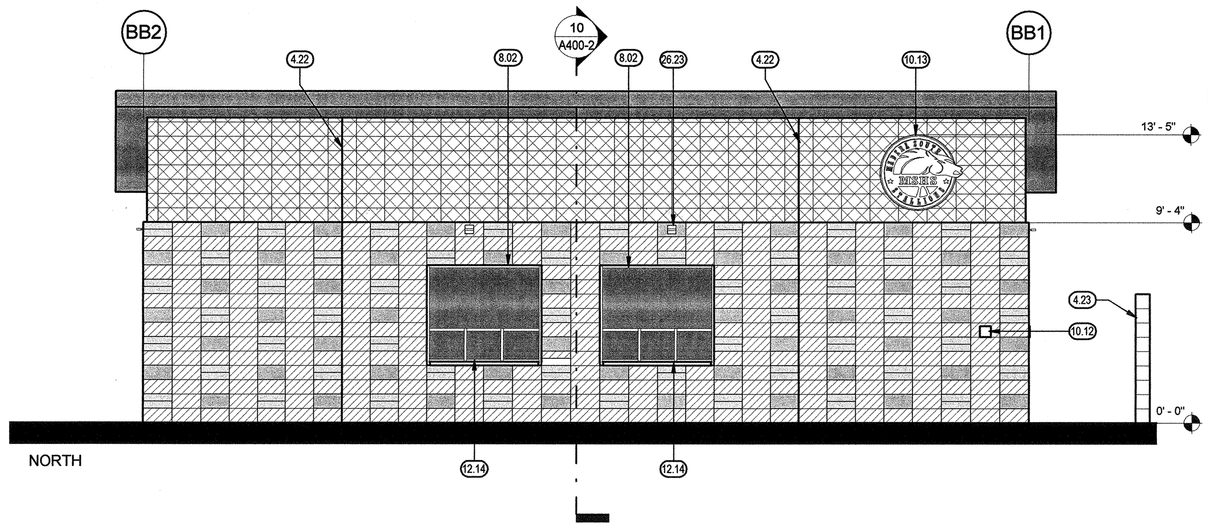
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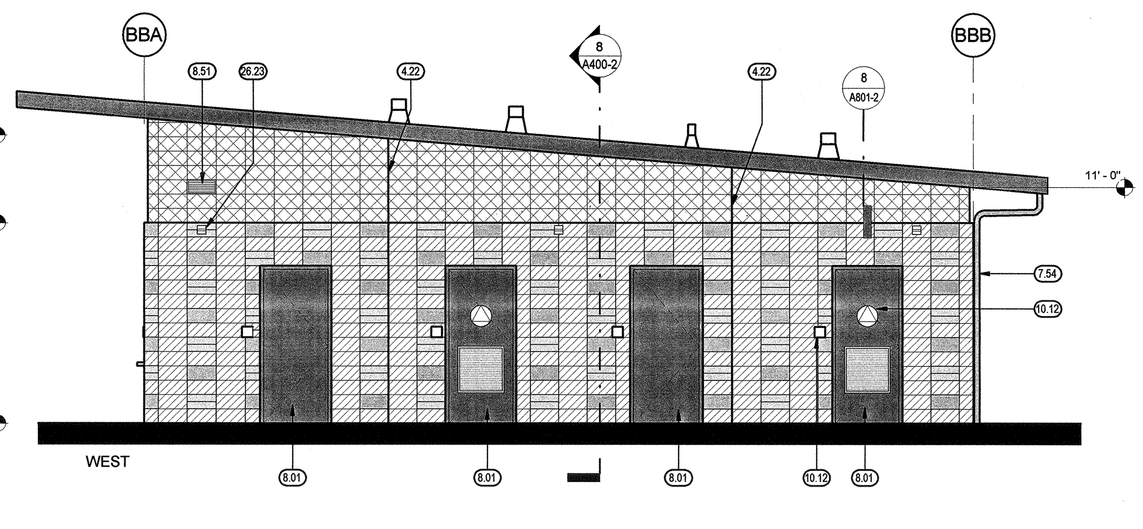
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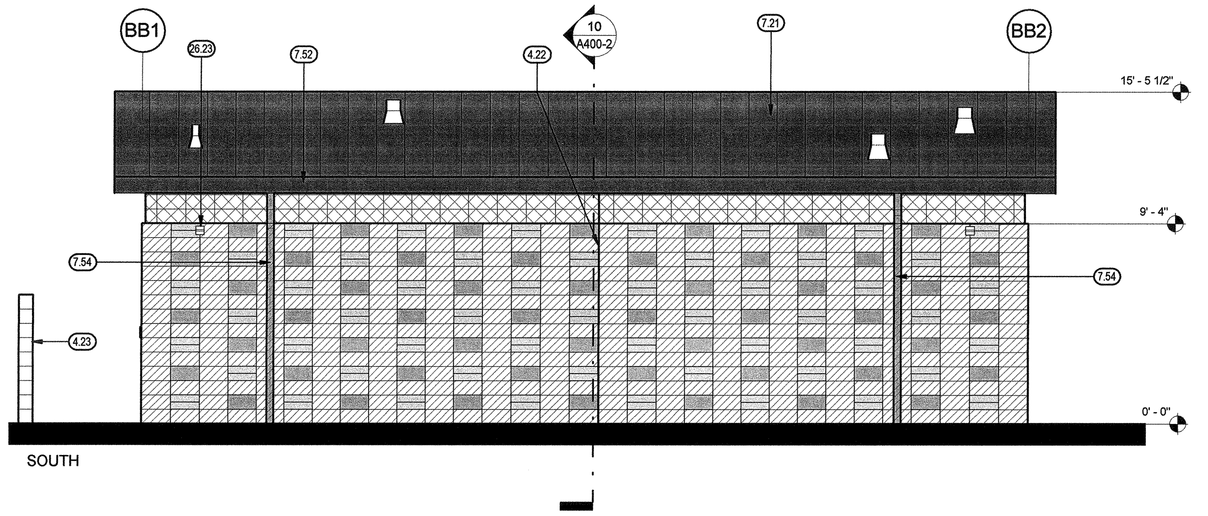
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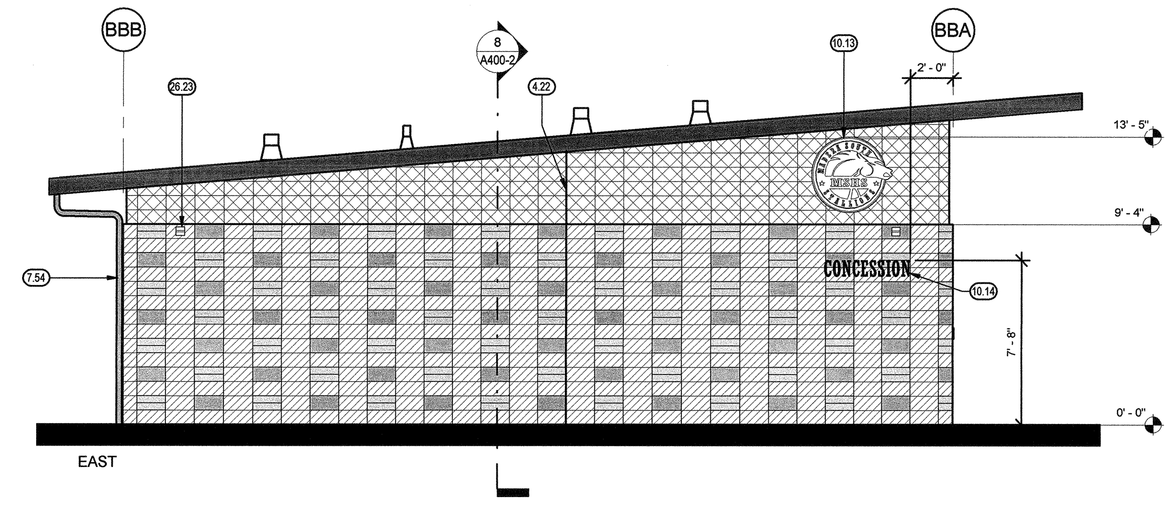
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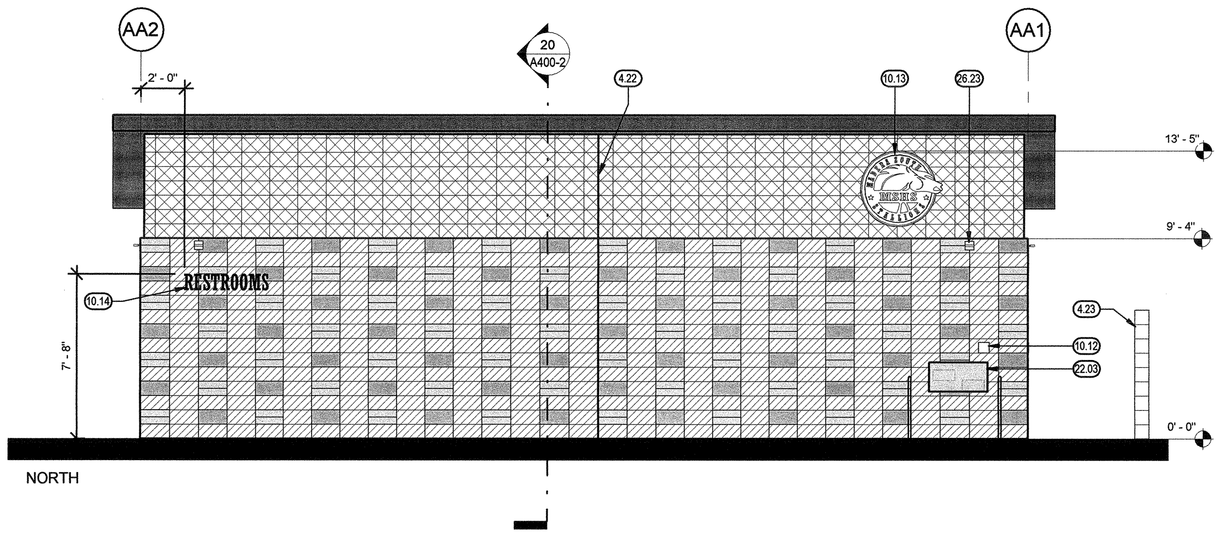


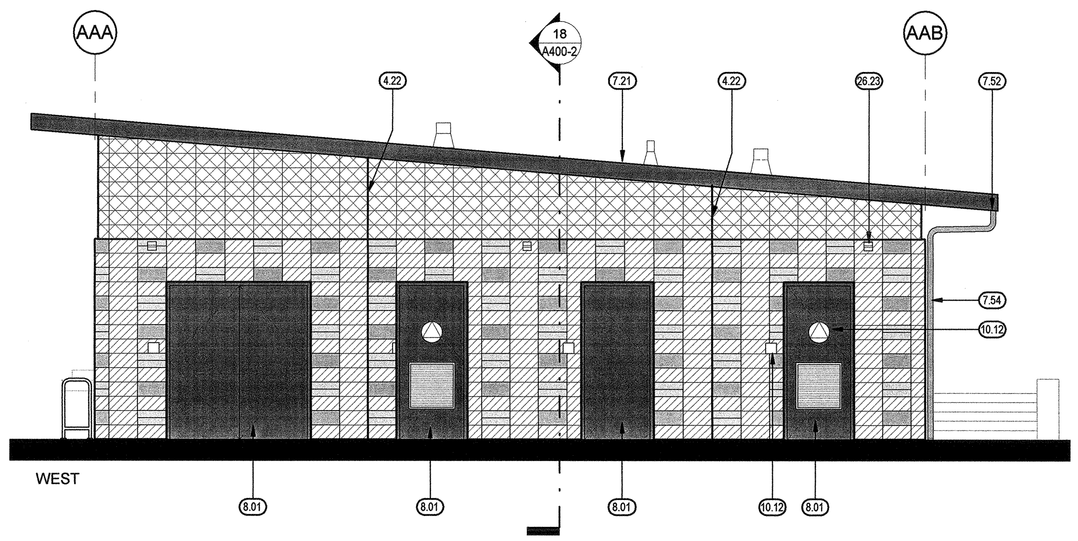


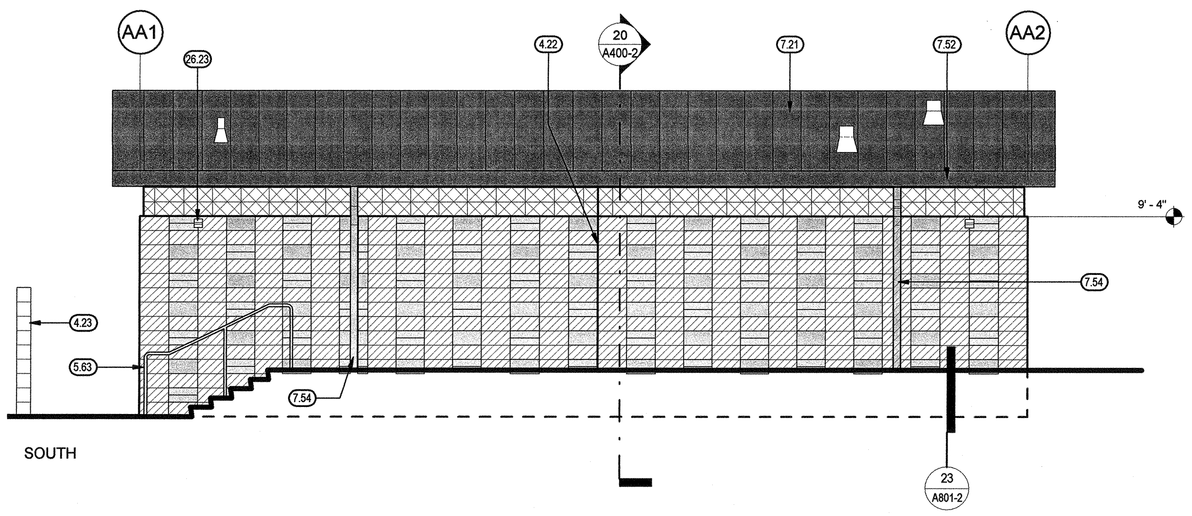


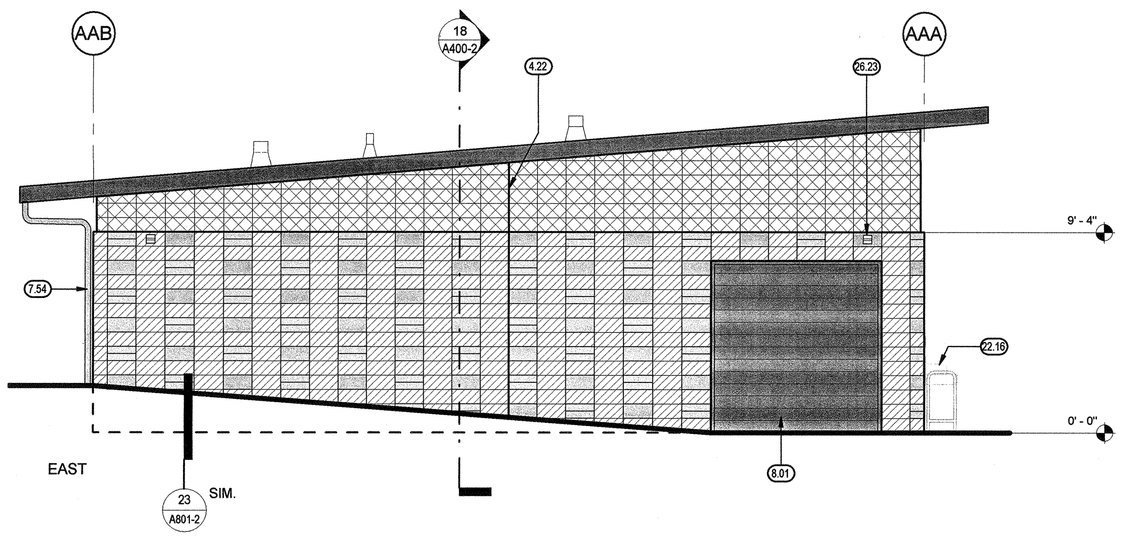


BUILDING 'BB' - CONCESSION BUILDING - EXTERIOR ELEVATIONS 1/4" = 1'-0" 8









BUILDING 'AA' - RESTROOM BUILDING - EXTERIOR ELEVATIONS 1/4" = 1'-0" 5

KEYNOTES 00.00

NO.	KEYNOTE
4.22	CMU CONTROL JOINT, REFER TO STRUCTURAL
4.23	CMU SCREEN WALL BEYOND, TYP.
5.63	REFER TO CIVIL HANDRAIL PER INCREMENT 1
7.21	STANDING SEAM METAL ROOF, CLASS A
7.52	METAL GUTTERS - TYP.
7.54	DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAIN SYSTEM, SEE 13/A801-2, AND REFER TO CIVIL PER INCREMENT 1
8.01	DOOR AND FRAME - SEE DOOR SCHEDULE
8.02	WINDOW, SEE WINDOW SCHEDULE
8.51	WALL LOUVER, REFER TO MECHANICAL
10.12	SIGNAGE, SEE 24/A800-2
10.13	3' - 6" DIAMETER 3D ACRYLIC LOGO, SEE 21/A801-2
10.14	9" HIGH THREE DIMENSIONAL LETTERS, PROVIDED BY SIGN MANUFACTURER, SEE XX/XXX
12.14	STAINLESS STEEL COUNTER TOP - TYP., SEE 11/A801-2
22.03	ACCESSIBLE HIGH-LOW DRINKING FOUNTAIN, REFER TO PLUMBING, SEE 9/A800-2, 15/A800-2
22.16	HIGH-LOW DRINKING FOUNTAIN BEYOND, TYP.
26.23	EXTERIOR LIGHTING, REFER TO ELECTRICAL

LEGEND

- 8 x 8 x 16 CMU STACKED BLOCK (PRECISION)
- 8 x 8 x 16 CMU STACKED BLOCK (BURNISHED)
- 8 x 8 x 16 CMU STACKED BLOCK (PRECISION) WITH HORIZONTAL SCORE
- 6 x 8 x 16 CMU STACKED BLOCK (SPLIT FACE)

GENERAL NOTES

A. KEYNOTES APPLY TO THIS SHEET ONLY.

B. SEE DETAIL 4 / A800-2 FOR GROUT PROFILE.

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MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

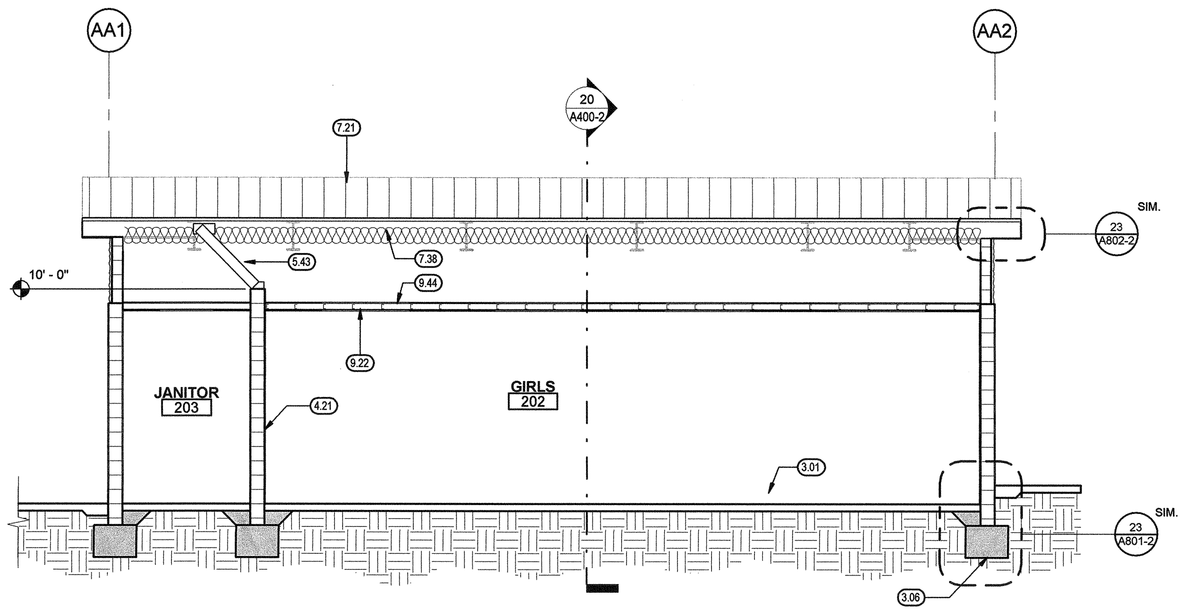
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PROJECT NO.
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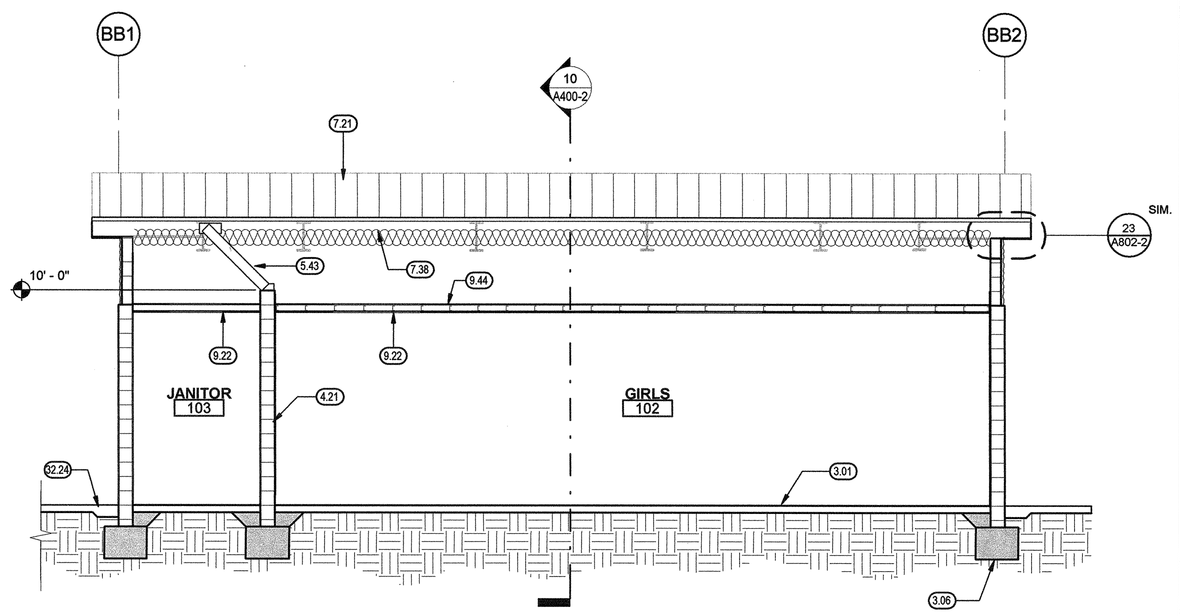
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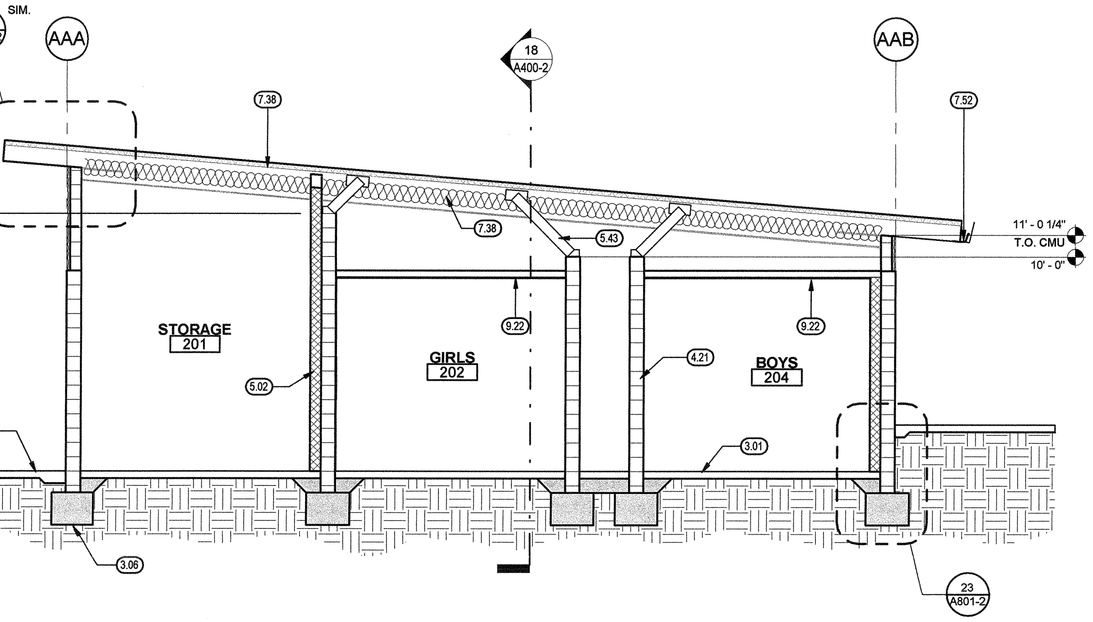
BUILDING 'AA' - RESTROOM BUILDING 1/4" = 1'-0" | 18



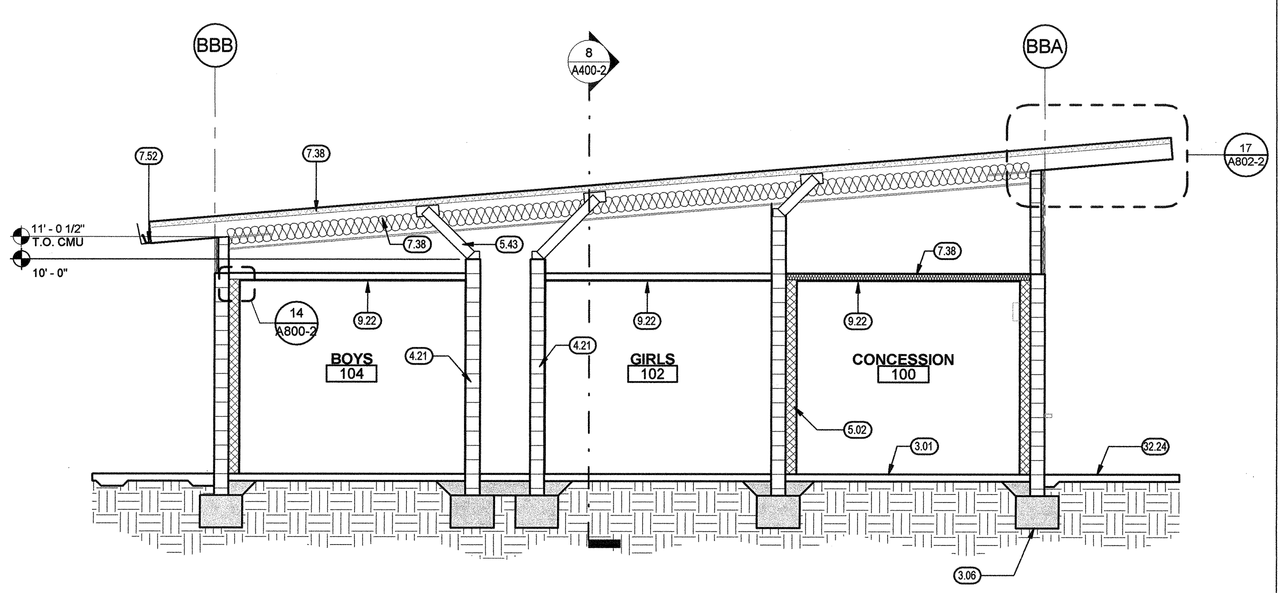
BUILDING 'BB' - CONCESSION BUILDING 1/4" = 1'-0" | 8

KEYNOTES (00.00)

NO.	KEYNOTE
3.01	CONCRETE SLAB, REFER TO STRUCTURAL
3.06	FOUNDATION, REFER TO STRUCTURAL
4.21	CMU WALL, PER PLAN, REFER TO STRUCTURAL
5.02	METAL STUD WALL, REFER TO STRUCTURAL
5.43	WALL BRACE, SEE 19/A802-2 & 20/A802-2
7.21	STANDING SEAM METAL ROOF, CLASS A
7.38	SINGLE FACED BATT INSULATION SUPPORTED BY 1/8" THICK STEEL AIRCRAFT CABLES @24" O.C. TYP., SEE 28/A801-2
7.52	METAL GUTTERS - TYP.
9.22	METAL STUD CEILING JOIST, SEE 14/A800-2
9.44	METAL JOIST CEILING FRAMING, SEE 14/A800-2
32.24	CONCRETE WALKWAY, REFER TO CIVIL PER INCREMENT 1



BUILDING 'AA' - RESTROOM BUILDING 1/4" = 1'-0" | 20



BUILDING 'BB' - CONCESSION BUILDING 1/4" = 1'-0" | 10

GENERAL NOTES

A. ROOF INSULATION SHALL HAVE A MINIMUM INSULATING VALUE OF NO LESS THAN R-38, INSULATION SHALL BE LOCATED BELOW THE ROOF DECK.

B. KEYNOTES APPLY TO THIS SHEET ONLY.

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MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

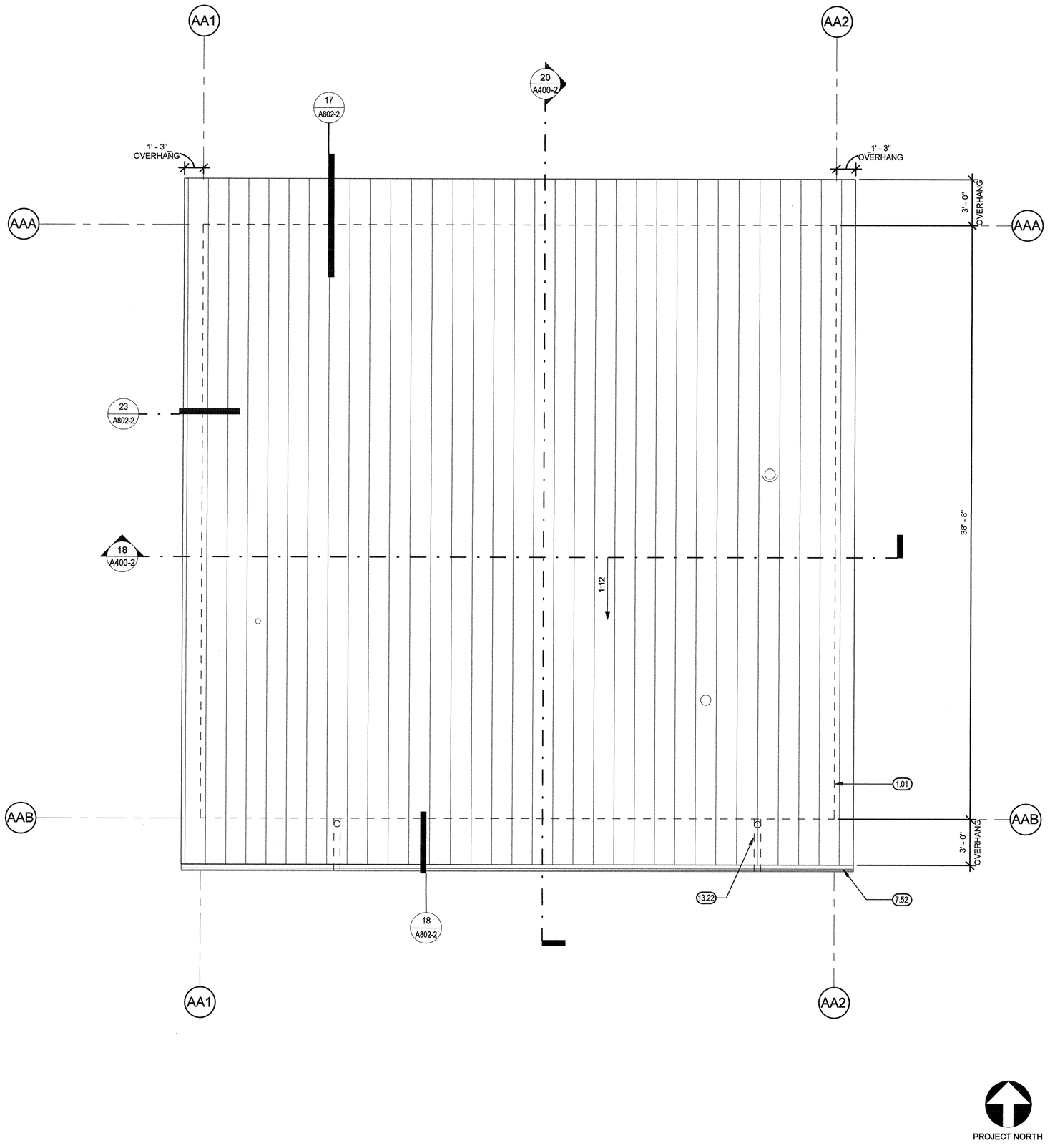
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BUILDING 'AA' & 'BB' SECTIONS

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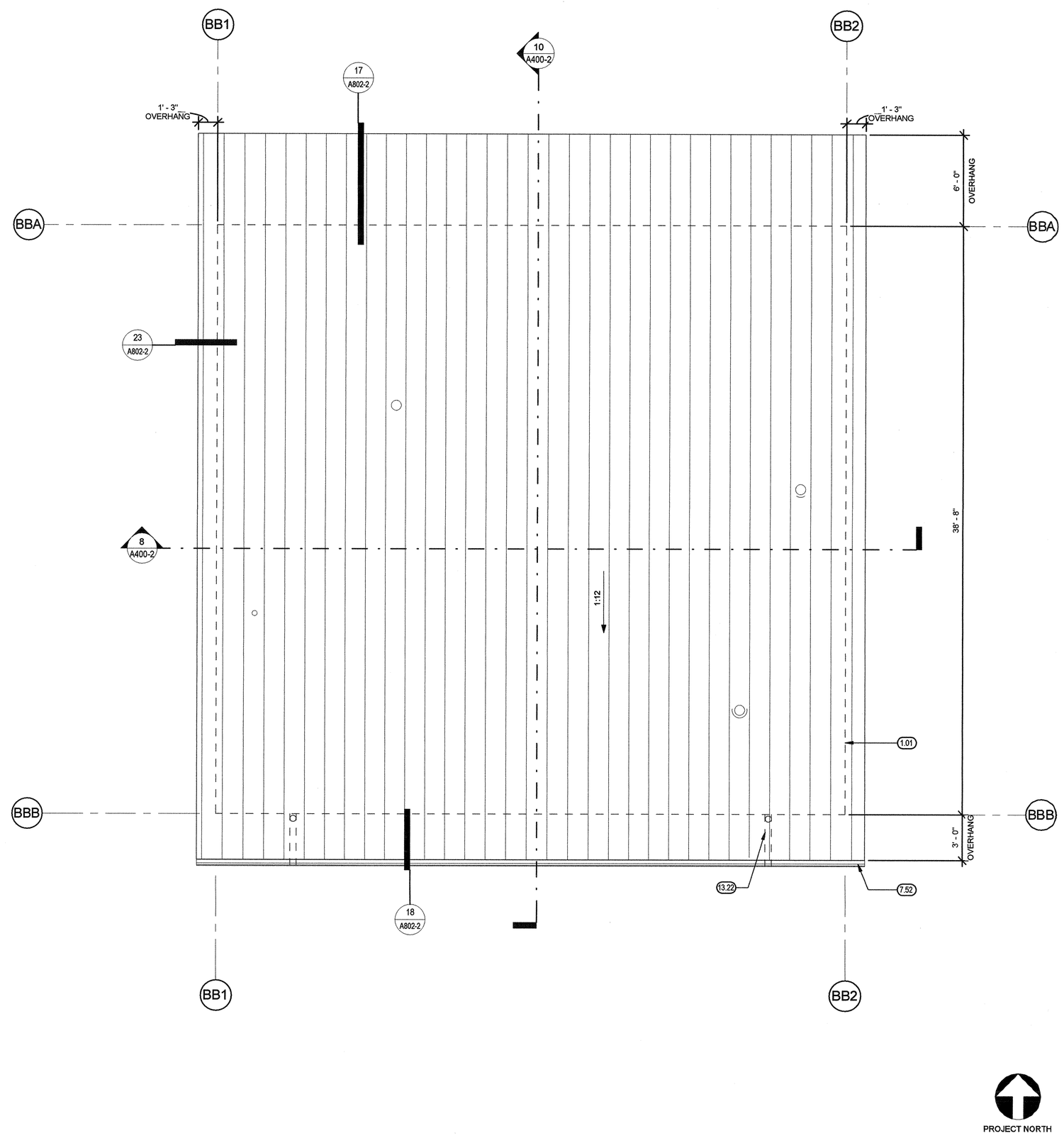
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BUILDING 'AA' - RESTROOM BUILDING ROOF PLAN 1/4" = 1'-0" | 19



BUILDING 'BB' - CONCESSION BUILDING ROOF PLAN 1/4" = 1'-0" | 4

KEYNOTES (00.00)

NO.	KEYNOTE
1.01	DASHED LINE INDICATES PERIMETER OF BUILDING
7.52	METAL GUTTERS - TYP.
13.22	DOWNSPOUT BELOW

GENERAL NOTES

A. INSULATE ALL EXTERIOR AND INTERIOR WALLS AND EXTEND TO UNDERSIDE OF ROOF

B. ALL COLORS TO BE SELECTED @ LATER DATE BY ARCHITECT.

C. KEYNOTES APPLY TO THIS SHEET ONLY.

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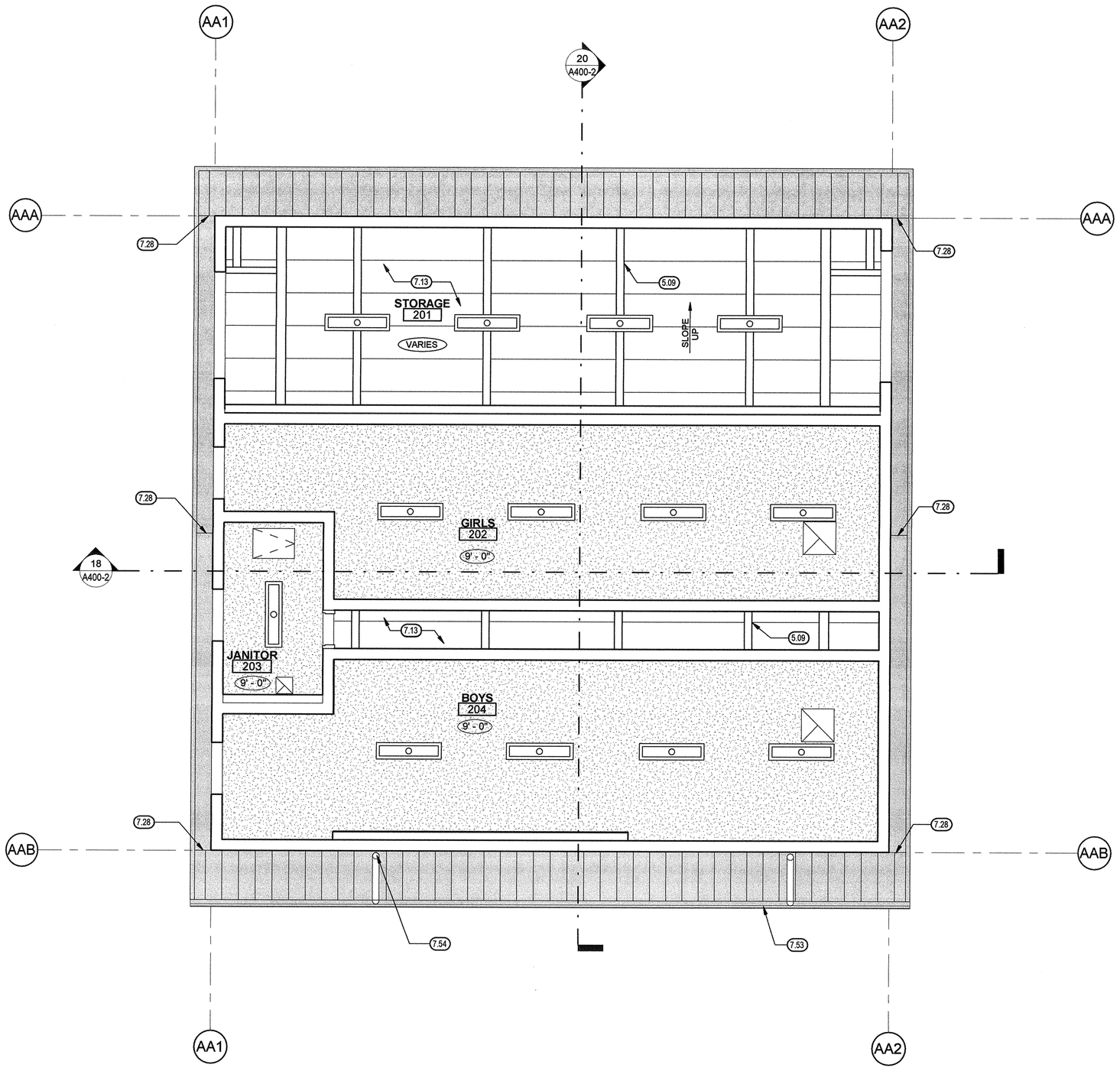
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BUILDING 'AA' & 'BB' ROOF PLANS

PROJECT NO.
18-10748

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A500-2

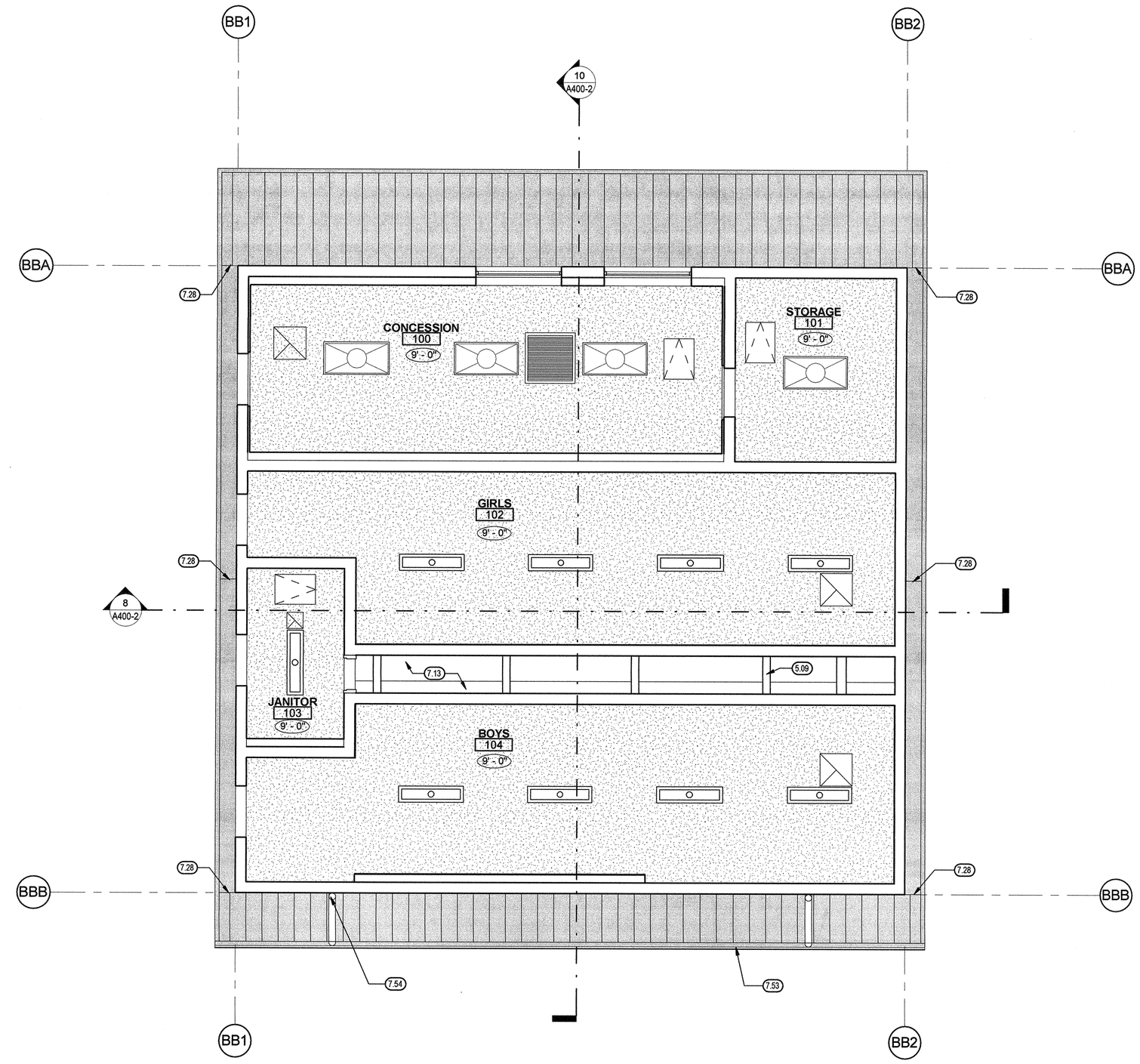
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PROJECT NORTH

BUILDING 'AA' - RESTROOM REFLECTED CEILING PLAN 1/4" = 1'-0" 19



PROJECT NORTH

BUILDING 'BB' - CONCESSION REFLECTED CEILING PLAN 1/4" = 1'-0" 4

KEYNOTES (00.00)

NO.	KEYNOTE
5.09	EXPOSED ROOF STRUCTURE, PAINT METAL BEAMS
7.13	EXPOSED SINGLE FACED BATT INSULATION SUPPORTED BY 1/8" THICK STEEL AIRCRAFT CABLES @ 24" O.C. TYP., SEE 28/A801-2
7.28	SOFFIT PANEL SPLICE, TYP.
7.53	CONCEALED METAL GUTTER, SEE 18/A802-2
7.54	DOWNSPOUT CONNECTED TO UNDERGROUND STORM DRAIN SYSTEM, SEE 13/A801-2, AND REFER TO CIVIL PER INCREMENT 1

LEGEND

- Room name 101 — ROOM SYMBOL
- X'-X" — CEILING HEIGHT
- SURFACE MOUNTED LIGHT FIXTURE, REFER TO ELECTRICAL
- 20" x 30" CEILING ACCESS PANEL, SEE 27 / A801-2
- MECHANICAL EQUIPMENT, REFER TO MECHANICAL
- GYP. BD. OVER METAL CEILING JOIST SEE 14 / A800-2
- METAL SOFFIT PANEL

GENERAL NOTES

A. INTERIOR AND EXTERIOR LIGHTING SYSTEMS AND CONTROLS SHALL BE COMPLIANT WITH THE 2016 CALIFORNIA ENERGY CODE. PROVIDE ALL COMPLIANCE FORMS AS REQUIRED BY CODE.

B. ALL COLORS TO BE SELECTED @ LATER DATE BY ARCHITECT

C. LOCATE AC SUPPLY AND EXHAUST FANS PER TITLE 24.

D. KEYNOTES APPLY TO THIS SHEET ONLY.

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MARK	DATE	DESCRIPTION
	12/12/18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL: 02-116986

AC FLS SS KG

DATE: 11 DEC 2018

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
BUILDING 'AA' & 'BB' REFLECTED CEILING PLANS

PROJECT NO.
18-10748

DRAWING
A600-2

PLOT DATE: 12/8/2018 5:19:15 PM

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INTERIOR FINISH SCHEDULE

	MARK	ROOM NAME	FLOORS		WALLS								CEILING		REMARKS
					NORTH		EAST		SOUTH		WEST				
			FLOOR	BASE	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	
BUILDING 'BB'	100	CONCESSION	C	CTB	FRP	FF	FRP	FF	FRP	FF	FRP	FF	GB	P	--
	101	STORAGE	C	CTB	EB	EB	EB	EB	EB	EB	EB	EB	GB	P	--
	102	GIRLS	C	CTB	EB/CT	FF	CT	FF	EB/CT	FF	EB/CT	FF	GB	P	--
	103	JANITOR	C	CTB	EB	FF	EB/FRP	FF	FRP	FF	EB	FF	GB	P	--
	104	BOYS	C	CTB	EB/CT	FF	CT	FF	EB/CT	FF	EB/CT	FF	GB	P	--
BUILDING 'AA'	204	BOYS	C	CTB	FRP	FF	FRP	FF	FRP	FF	FRP	FF	GB	P	--
	203	JANITOR	C	CTB	EB	FF	EB/FRP	FF	FRP	FF	EB	FF	GB	P	--
	202	GIRLS	C	CTB	FRP	FF	FRP	FF	FRP	FF	FRP	FF	GB	P	--
	201	STORAGE	C	CTB	EB/CT	FF/P	EB	FF	EB	FF	EB	FF	--	P	A
BUILDING 'Z'	300	TICKETBOOTH	C	TS	GB	P	GB	P	GB	P	GB	P	GB	P	--

FINISH MATERIAL ABBREVIATIONS

C	EXPOSED SEALED SMOOTH FINISH CONCRETE
CTB	CERAMIC TILE, 6" COVER BASE (TYP. - U.N.O.)
CT-1	CERAMIC TILE (COLOR 1)
CT-2	CERAMIC TILE (COLOR 2)
CT-3	CERAMIC TILE (COLOR 3)
EB	EXPOSED CMU, SEALED
FF	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PLASTIC PANEL
GB	GYPSUM BOARD
P	PAINT
TS	TOPSET RUBBER BASE 4" HIGH

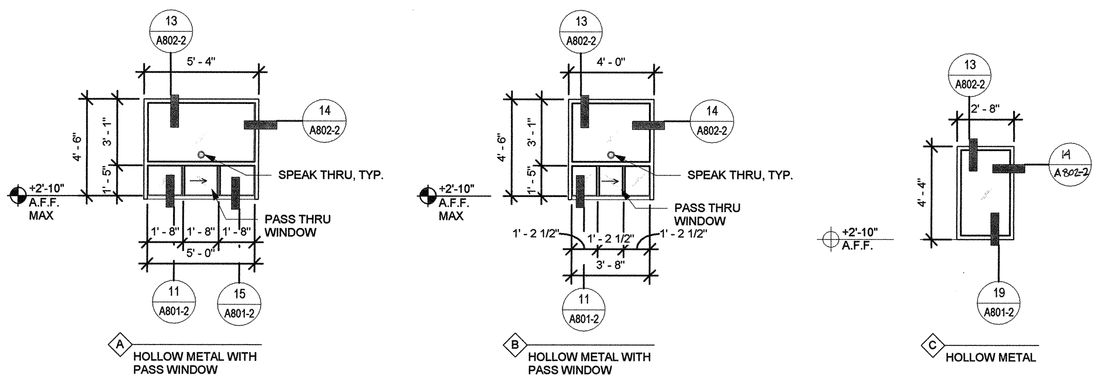
REMARKS

A. EXPOSED STRUCTURE ABOVE, PAINT BEAMS BLACK.

FINISH SCHEDULE GENERAL NOTES

A. SEE INTERIOR ELEVATIONS FOR EXTENT OF VARIOUS MATERIALS ON WALL.

FINISH SCHEDULE — N.T.S. — 18



WINDOW SCHEDULE — 1/4" = 1'-0" — 20

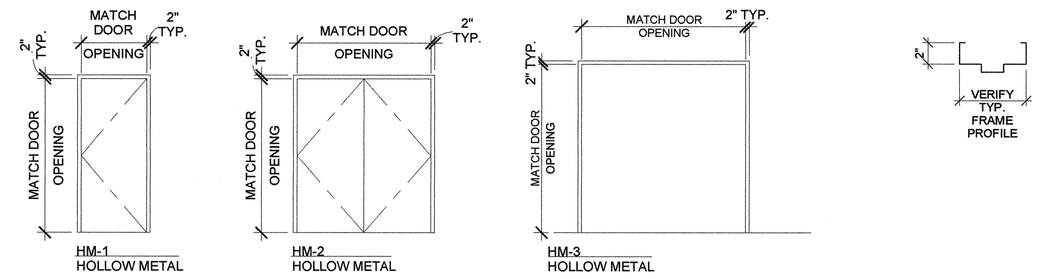
DOOR SCHEDULE

	MARK	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATL	DOOR FINISH	FRAME TYPE	FRAME FINISH	HARDWARE GROUP	DETAILS HEAD	DETAILS JAMB	DOOR DET THRESH	REMARKS
BUILDING 'AA'	AA201A	6' - 4"	7' - 2"	F	HM	P	HM-2	P	HW02	2/A802-2	3/A802-2	10/A802-2	--
	AA201B	8' - 0"	8' - 0"	OH	GS	FF	HM-3	P	HW03	15/A802-2	16/A802-2	10/A802-2	B
	AA202A	3' - 0"	7' - 2"	L	HM	P	HM-1	P	HW01	2/A802-2	3/A802-2	10/A802-2	A
	AA203A	3' - 0"	7' - 2"	F	HM	P	HM-1	P	HW04	2/A802-2	3/A802-2	10/A802-2	--
	AA203B	2' - 0"	7' - 2"	F	HM	P	HM-1	P	HW05	2/A802-2	4/A802-2, 5/A802-2	--	--
	AA204A	3' - 0"	7' - 2"	L	HM	P	HM-1	P	HW01	2/A802-2	3/A802-2	10/A802-2	A
BUILDING 'BB'	BB100A	3' - 0"	7' - 2"	F	HM	P	HM-1	P	HW01	7/A802-2	8/A802-2	10/A802-2	--
	BB100B	5' - 4"	4' - 4"	OHC-1	GS	FF	--	P	HW03	13/A802-2	14/A802-2	--	B
	BB100C	5' - 4"	4' - 4"	OHC-1	GS	FF	--	P	HW03	13/A802-2	14/A802-2	--	B
	BB101A	3' - 0"	7' - 0"	F	HM	P	HM-1	P	HW06	7/A802-2	8/A802-2	--	C
	BB102A	3' - 0"	7' - 2"	L	HM	P	HM-1	P	HW01	2/A802-2	3/A802-2	10/A802-2	A
	BB103A	3' - 0"	7' - 2"	F	HM	P	HM-1	P	HW04	2/A802-2	3/A802-2	10/A802-2	--
	BB103B	2' - 0"	7' - 2"	F	HM	P	HM-1	P	HW05	2/A802-2	4/A802-2, 5/A802-2	--	--
	BB104A	3' - 0"	7' - 2"	L	HM	P	HM-1	P	HW01	2/A802-2	3/A802-2	10/A802-2	A
BUILDING 'Z'	Z301A	3' - 0"	7' - 2"	F	HM	P	HM-1	P	HW01	7/A802-2	8/A802-2	10/A802-2	--
	Z301B	4' - 0"	4' - 4"	OHC-2	GS	FF	--	P	HW03	13/A802-2	14/A802-2	--	B
	Z301C	4' - 0"	4' - 4"	OHC-2	GS	FF	--	P	HW03	13/A802-2	14/A802-2	--	B
	Z301D	4' - 0"	4' - 4"	OHC-2	GS	FF	--	P	HW03	13/A802-2	14/A802-2	--	B

ABBREVIATIONS

FF	FACTORY FINISH
GS	GALVANIZED STEEL
HM	HOLLOW METAL
IC	INSULATED CORE
P	PAINT
PC	POWDER COATING
STL	STEEL
SS	STAINLESS STEEL

FRAME TYPES



DOOR TYPES



** DENOTES 10" MIN. SMOOTH & UNINTERRUPTED SURFACE (TYP.).

GENERAL NOTES

A. SEE SPECIFICATION FOR DESIGNATED HARDWARE GROUPS

B. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT OR THE USE OF A KEY. HAND ACTIVATED HARDWARE SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC DEVICES, OR PUSH/PULL BARS WITHOUT REQUIRING THE ABILITY TO GRASP THE OPERATING HARDWARE.

C. THE MAXIMUM FORCE REQUIRED TO OPEN DOOR SHALL NOT EXCEED 5 LBS. FOR INTERIOR DOORS AND EXTERIOR DOORS. THE FORCE SHALL BE THE PUSH/PULL APPLIED PERPENDICULAR TO THE DOOR. THE FORCE TO OPEN FIRE RATED DOORS MAY BE INCREASED UP TO 15 LBS. WHEN REQUIRED BY THE FIRE AUTHORITY/ FIRE MARSHALL.

D. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE TOP OF THE THRESHOLD OF THE DOORWAY. A CHANGE IN ELEVATION BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2

E. FLOOR MOUNTED DOOR STOPS AND SIMILAR OBSTRUCTIONS SHALL BE INSTALLED AT A MAXIMUM OF 4" FROM FACE OF WALL OR PARTITION.

F. DOORS SHALL BE ABLE TO OPEN 90 DEGREES MINIMUM.

G. DOORS SHALL NOT BE LESS THAN 3'-0" W X 6'-8" H. DOOR LEAF WIDTH SHALL NOT EXCEED 4'-0".

H. FOR TYPICAL DOOR NOTES AND CLEARANCES, SEE SHEET A800.

REMARKS

A. PROVIDE INSECT SCREEN.

B. POWDER COATING PER MANUFACTURER'S COLOR CHART. COORDINATE COLOR WITH ARCHITECT.

C. UNDERCUT DOOR.

DOOR SCHEDULE — 1/4" = 1'-0" — 5

PLOT DATE: 12/8/2018 5:19:20 PM

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MARK	DATE	DESCRIPTION
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FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL: 02-116986

AC FLS SS KG

DATE: 11 DEC 2018

LICENSED ARCHITECT * WINDGATE, CHRISTOPHER JOHN * No. C-29552 * STATE OF CALIFORNIA

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

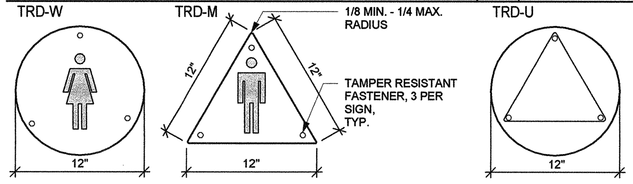
DRAWING TITLE
DOOR, WINDOW, AND FINISH SCHEDULES

PROJECT NO.
18-10748

DRAWING
A700-2

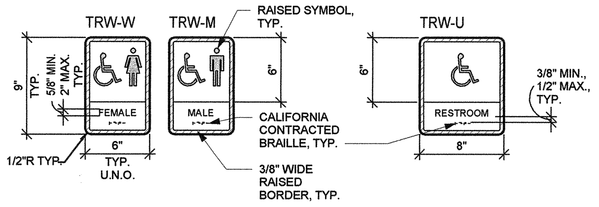
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DOOR MOUNTED TOILET IDENTIFICATION SYMBOL (TRD)



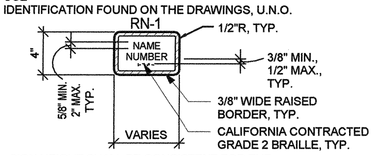
NOTE: SYMBOLS SHALL CONTRAST w/DOORS. FOR UNISEX SYMBOLS, THE TRIANGLE SHALL CONTRAST w/THE CIRCLE AND THE CIRCLE SHALL CONTRAST w/THE DOOR.

WALL MOUNTED TOILET SIGNAGE AT ACCESSIBLE TOILETS (TRW)



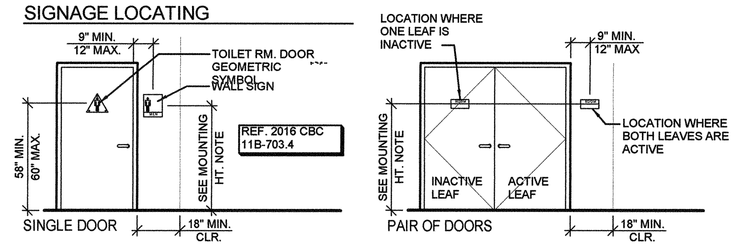
WALL MOUNTED IDENTIFICATION SIGNAGE @ FUNCTIONAL ROOMS (RN)

COORDINATE ROOM NAME AND NUMBER WITH OWNER PRIOR TO FABRICATION. DO NOT USE
IDENTIFICATION FOUND ON THE DRAWINGS, U.N.O.



SIGN HEIGHT SHALL BE CONSISTENT FOR THE PROJECT AND SHALL BE ESTABLISHED BY THE ARCHITECT.

SIGNAGE LOCATING



GENERAL NOTES:

GENERAL: SIGNAGE SHALL COMPLY WITH 2016 CBC SECTION 11B-703

RAISED CHARACTERS (CBC 11B-703.2):

RAISED CHARACTERS (TEXT) SHALL COMPLY WITH CBC SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE. RAISED CHARACTERS SHALL BE UPPER CASE AND BE RAISED 1/32-INCH MINIMUM ABOVE THEIR BACKGROUND. RAISED CHARACTERS SHALL BE SANS SERIF AND NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OTHER UNUSUAL FORMS. RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE OF 5/8-INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. REQUIREMENT APPLIES TO ALL SIGNS.

BRAILLE (CBC 11B-703.3):

BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 703.3.1. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT, OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM AND 1/2 INCH MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM AND FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

MOUNTING HEIGHT (CBC 11B-703.4.1):

TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FORM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

LOCATION (CBC 11B-703.4.2):

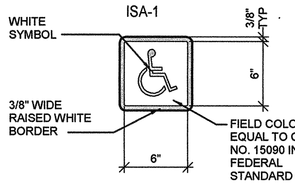
SIGNS SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PROVIDED, SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL BE LOCATED AT THE ENTRANCE TO, AND OUTSIDE OF THE ROOM OR SPACE. WHERE PROVIDED, SIGNS IDENTIFYING EXITS SHALL BE LOCATED AT THE EXIT DOOR WHEN APPROACHED IN THE DIRECTION OF EGRESS TRAVEL.

PICTOGRAMS (CBC 11B-703.6):

PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM, CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH, PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD AND BRAILLE TRANSLATION BELOW TEXT DESCRIPTION, TEXT DESCRIPTORS SHALL COMPLY WITH CBC SECTIONS 11B-703.2, 11B-703.3, AND 11B-703.4.1.

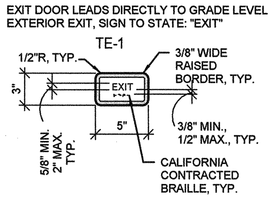
WALL MOUNTED ACCESSIBLE ACCESS SIGN (WA) CBC 11B-703.7.2.1

ALL ACCESSIBLE BUILDING ENTRANCES SHALL HAVE ACCESSIBLE SYMBOL ON OR ADJACENT TO DOOR AT STRIKE SIDE, SEE REQUIREMENTS BELOW.

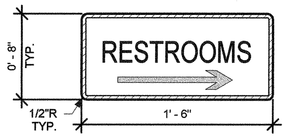


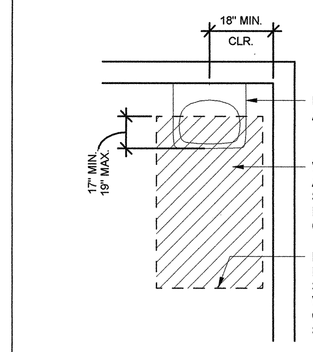
WALL MOUNTED TACTILE EXIT SIGN (TE)

1. EXIT DOOR LEADS DIRECTLY TO GRADE LEVEL EXTERIOR EXIT, SIGN TO STATE: "EXIT"

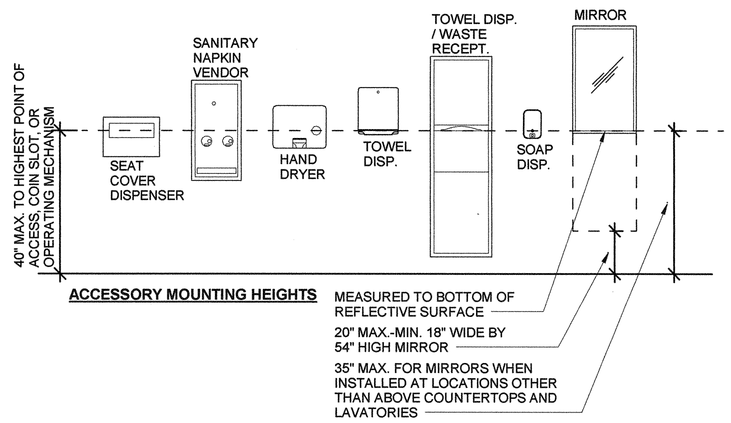


DIRECTIONAL RESTROOM SIGN (DR)

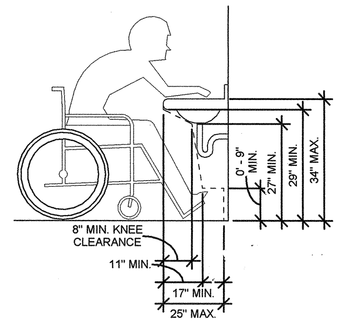




LAVATORY / URINAL SIM.



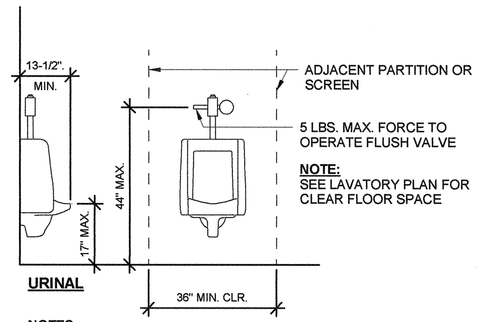
ACCESSORY MOUNTING HEIGHTS



UNDER LAVATORY CLEARANCE

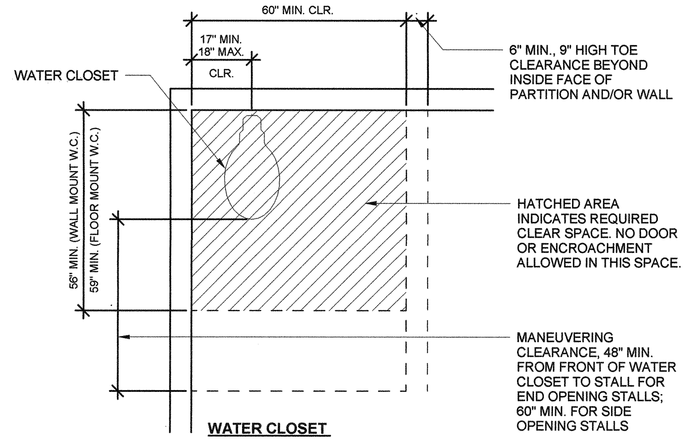
LAVATORY NOTES:

1. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.
2. FAUCETS SHALL BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING PINCHING OR TWISTING.
3. THE FORCE TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.
4. SELF-CLOSING VALVES SHALL REMAIN OPEN FOR 10 SECONDS MIN.

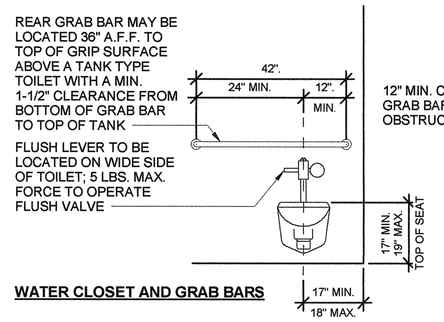


URINAL

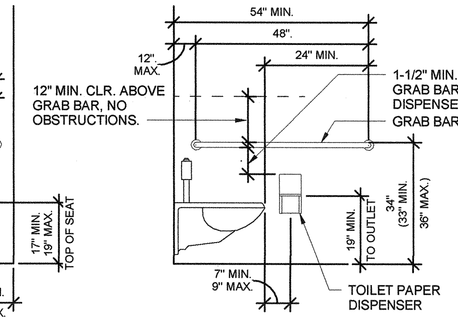
NOTES:
1. FIXTURE CLEAR SPACE TO ADJOIN MIN. 44" WIDE ACCESSIBLE PATH OF TRAVEL.
2. DOORS OF END-OPENING STALLS SHALL BE LOCATED IN FRONT OF CLEAR SPACE AND DIAGONAL TO THE WATER CLOSET WITH A MAXIMUM STILE WIDTH OF 4".



WATER CLOSET

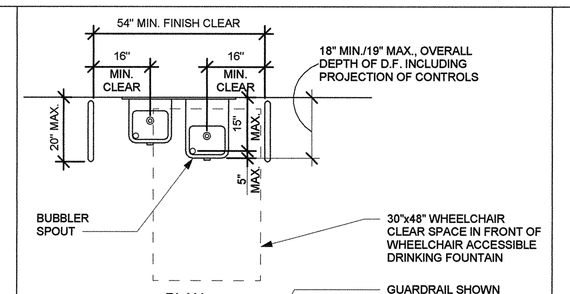


WATER CLOSET AND GRAB BARS

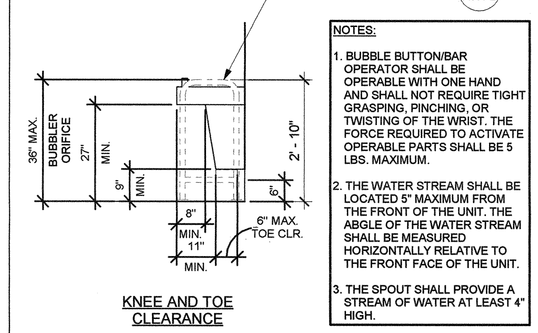


TYPICAL ACCESSIBLE FIXTURE AND ACCESSORY MOUNTING HEIGHTS AND CLEARANCES

1/2" = 1'-0" | 2

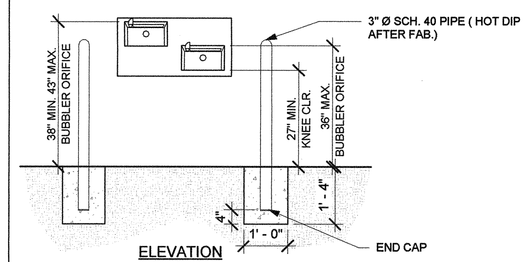


PLAN



KNEE AND TOE CLEARANCE

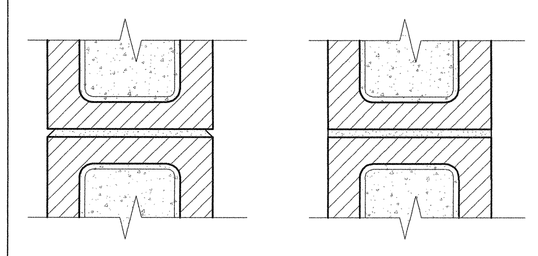
NOTES:
1. BUBBLE BUTTON/BAR OPERATOR SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS. MAXIMUM.
2. THE WATER STREAM SHALL BE LOCATED 5" MAXIMUM FROM THE FRONT OF THE UNIT. THE ABGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT.
3. THE SPOUT SHALL PROVIDE A STREAM OF WATER AT LEAST 4" HIGH.



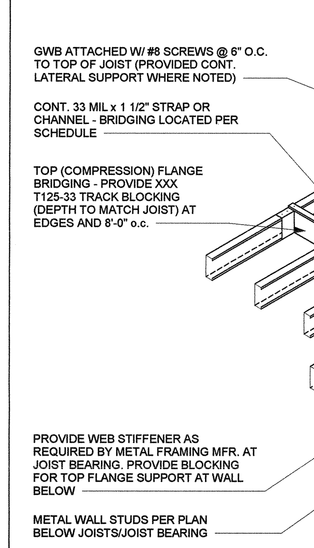
ELEVATION



CLEAR SPACE AT DOORS 12" = 1'-0" | 3



TYPICAL GROUT PROFILE 3" = 1'-0" | 4



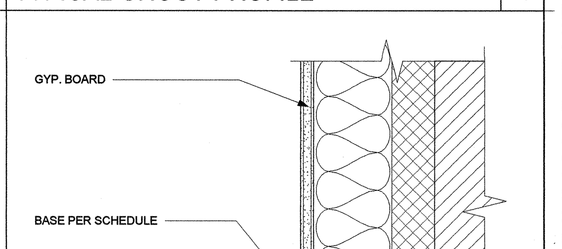
GENERAL NOTES:
1. DESIGNED FOR 10 PSF DL AND (2) LAYERS 5/8" GWB. GYP. BOARD.
2. IF SPAN OR LOADING CONDITION IS DIFFERENT THAN INDICATED, CONTACT ARCHITECT.
3. ILLUSTRATION IS FOR INFORMATION PURPOSES ONLY AND DOES NOT REFLECT A SPECIFIC LOCATION.

CEILING FRAMING SCHEDULE

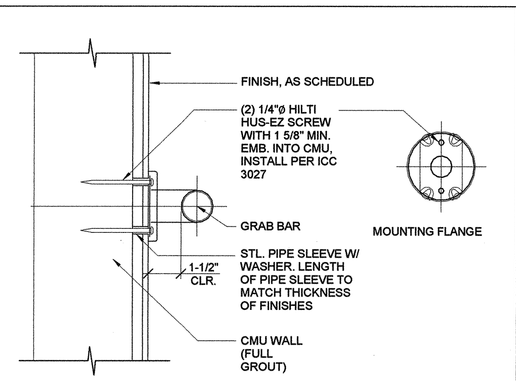
MAX. SPAN	MIN. JOIST SIZE & SPACING				BRIDGING LOCATION
	WIDTH XXX	FLANGE	GAUGE	SPACING	
6'-0"	250S	125	33	@ 16" o.c.	-----
9'-0"	400S	125	43	@ 16" o.c.	ONE ROW AT MID-SPAN
12'-0"	600S	125	43	@ 16" o.c.	ONE ROW AT MID-SPAN

TYPICAL METAL FRAMING (METAL) 1/2" = 1'-0" | 14

ACCESSIBLE DRINKING FOUNTAIN GUARDRAILS 1/2" = 1'-0" | 9



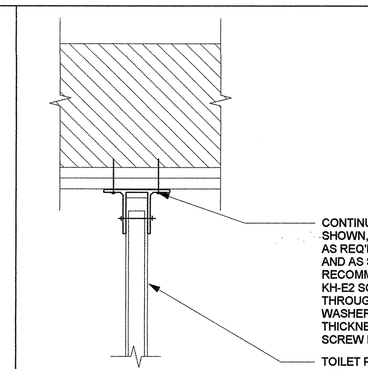
BASE @ WALL 3" = 1'-0" | 5



SECTION

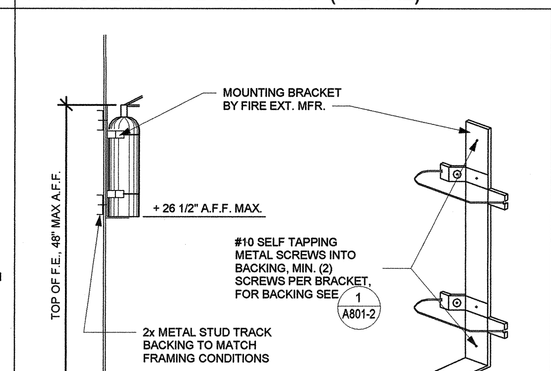
NOTE: FOR GRAB BAR REQUIREMENTS SEE 10 A800-2

GRAB ANCHORAGE 12" = 1'-0" | 30

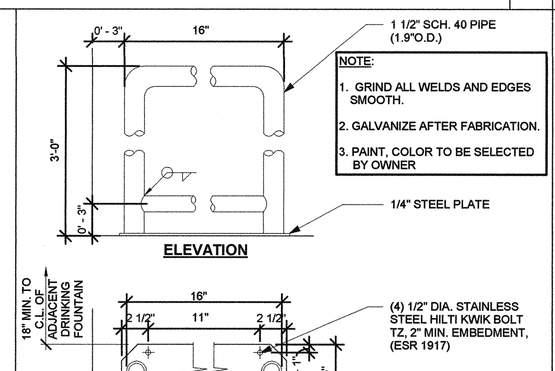


PLAN VIEW

PARTITION ANCHORAGE 3" = 1'-0" | 25

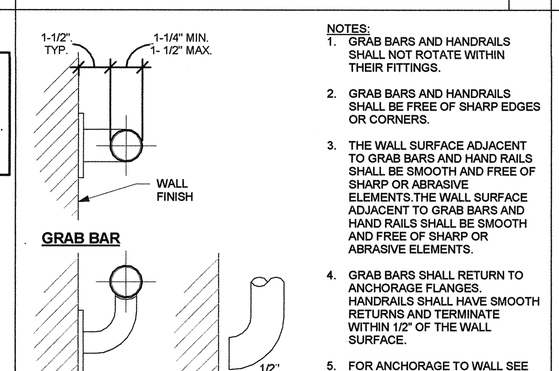


FIRE EXT. MOUNTING BRACKET 12" = 1'-0" | 20



PLAN

GUARDRAIL AT EXTERIOR D.F. 1 1/2" = 1'-0" | 15



NOTES:
1. GRAB BARS AND HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
2. GRAB BARS AND HANDRAILS SHALL BE FREE OF SHARP EDGES OR CORNERS.
3. THE WALL SURFACE ADJACENT TO GRAB BARS AND HAND RAILS SHALL BE SMOOTH AND FREE OF SHARP OR ABRASIVE ELEMENTS.THE WALL SURFACE ADJACENT TO GRAB BARS AND HAND RAILS SHALL BE SMOOTH AND FREE OF SHARP OR ABRASIVE ELEMENTS.
4. GRAB BARS SHALL RETURN TO ANCHORAGE FLANGES. HANDRAILS SHALL HAVE SMOOTH RETURNS AND TERMINATE WITHIN 1/2" OF THE WALL SURFACE.
5. FOR ANCHORAGE TO WALL SEE 30/A800-2

GRAB BAR & HANDRAIL REQUIREMENTS 12" = 1'-0" | 10

PLOT DATE: 12/8/2018 5:19:25 PM

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MARK	DATE	DESCRIPTION
	12/12/18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL: 02-116986

AC FLS VERIFIED KG

DATE: 11 DEC 2018

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

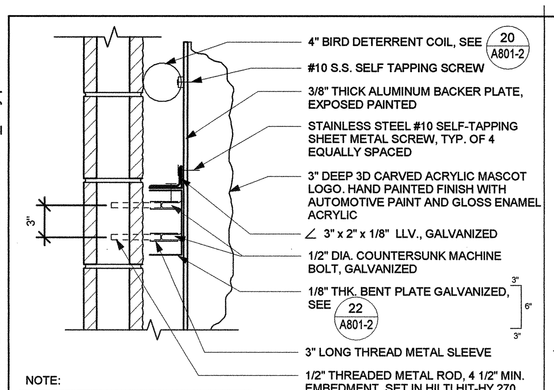
STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
DETAILS

PROJECT NO.
18-10748

DRAWING
A800-2

C:\Users\tony.pavone\Documents\10748-A-MADERA SOUTH-BUILDINGS-2017_tony.pavone.rvt



NOTE:

1. SIGN TO BE FABRICATED & INSTALLED BY SIGN MANUFACTURER.
2. LESS THAN 20 LBS.

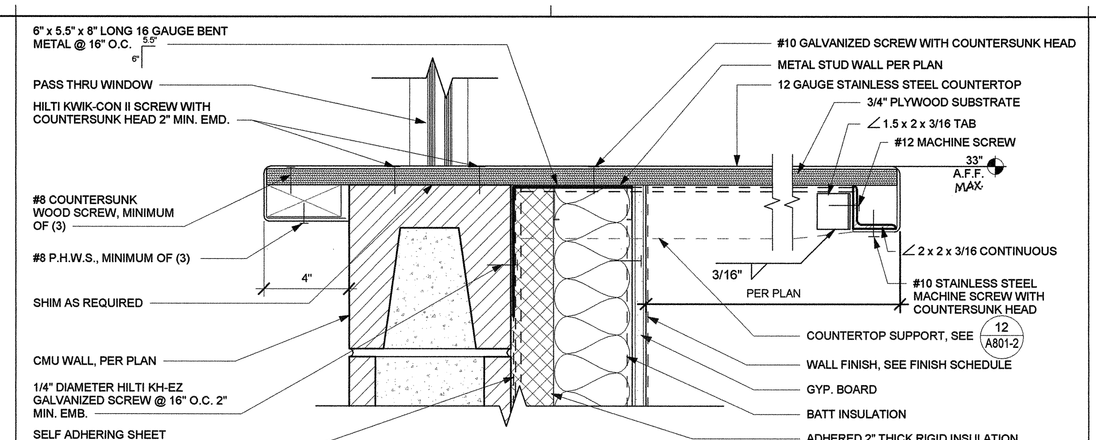
THREE DIMENSIONAL ACRYLIC 1 1/2" = 1'-0" | 26



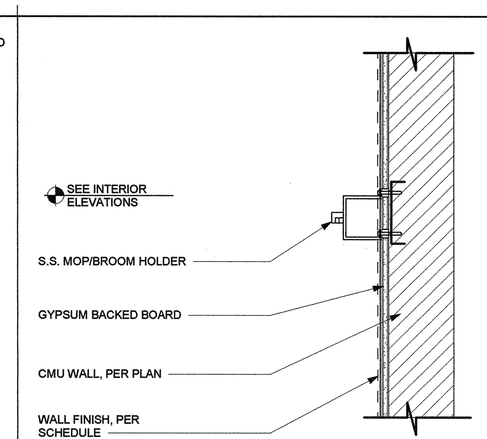
NOTE:

1. SIGN TO BE FABRICATED & INSTALLED BY SIGN MANUFACTURER.
2. LESS THAN 20 LBS.
3. SEE 26 / A801-2

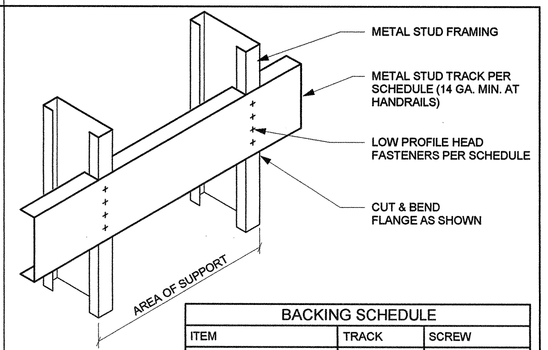
THREE DIMENSIONAL ACRYLIC SIGN N.T.S. | 21



WINDOW SILL AT CMU FURRED WALL 3" = 1'-0" | 11

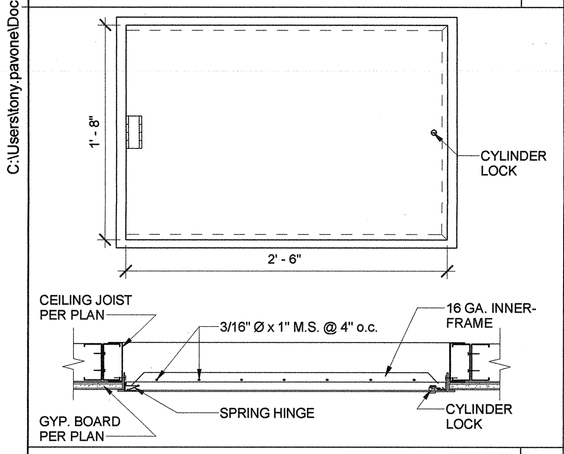


JANITOR MOP RACK 1 1/2" = 1'-0" | 6

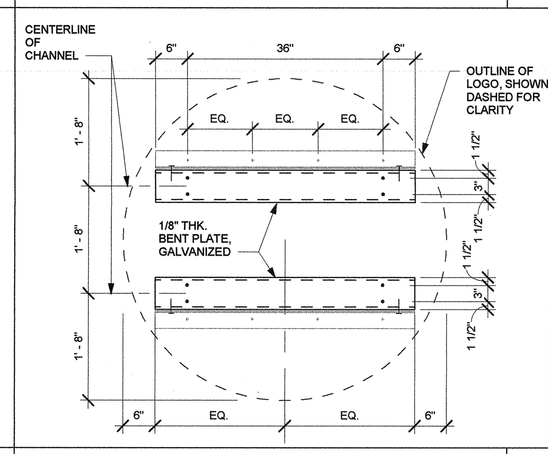


BACKING SCHEDULE		
ITEM	TRACK	SCREW
CASEWORK, CABINETRY	600 T 125-54	(4) #10
TOILET ACCESSORIES	362 T 125-54	(2) #10
GRAB BAR	600 T 125-68	(4) #10
MISC. FRAMING	ONE SIZE LARGER	(4) #10

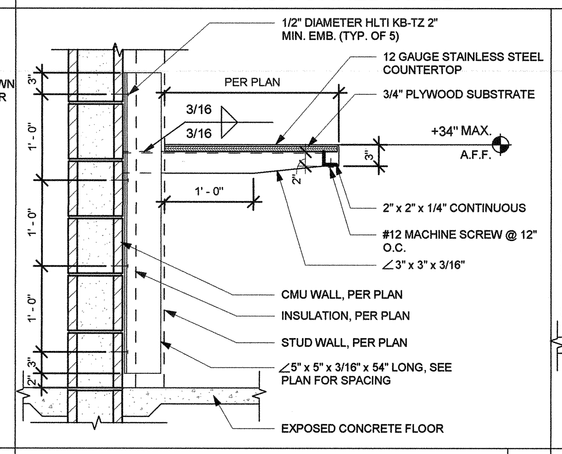
METAL BACKING (TYP.) 1 1/2" = 1'-0" | 1



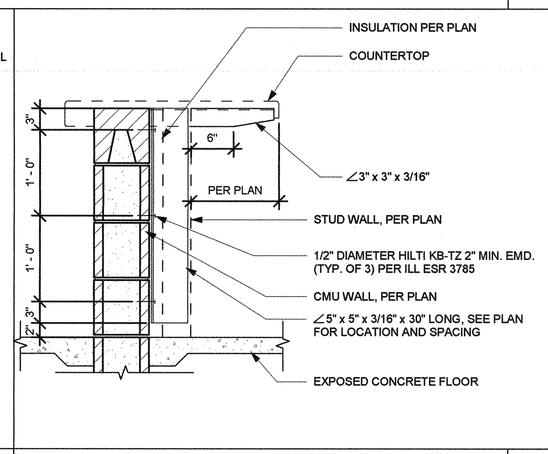
ATTIC ACCESS @ GYP. BD. 1 1/2" = 1'-0" | 27



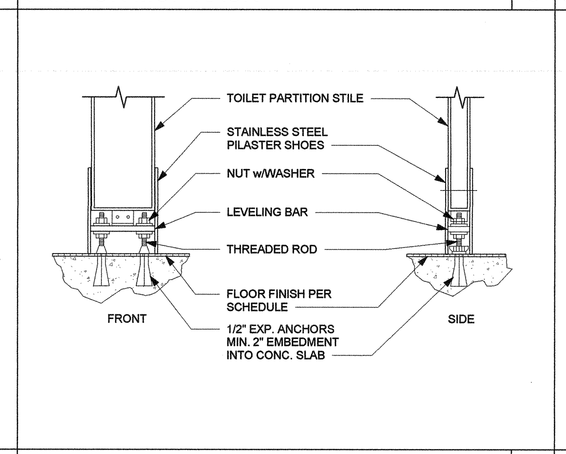
THREE DIMENSIONAL ANCHORAGE 3/4" = 1'-0" | 22



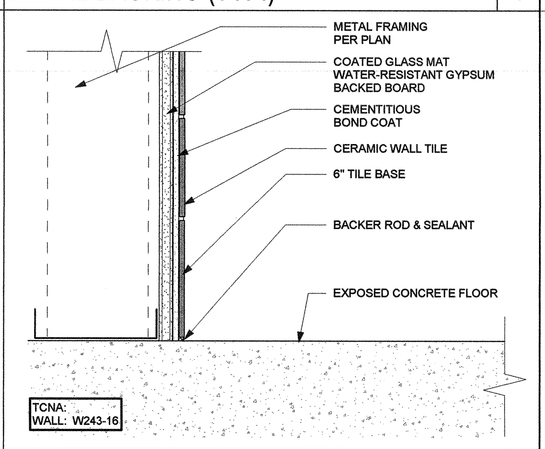
COUTERTOP SUPPORT @ WALL 1" = 1'-0" | 17



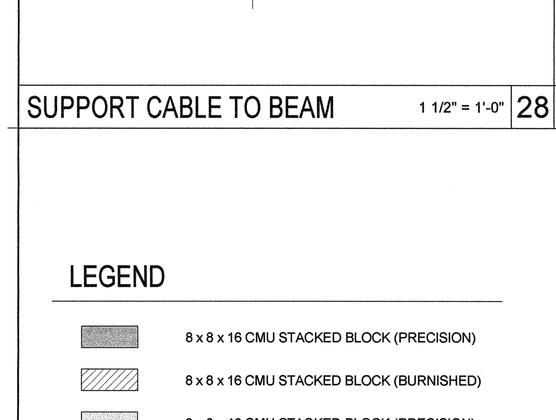
COUNTERTOP SUPPORT 1" = 1'-0" | 12



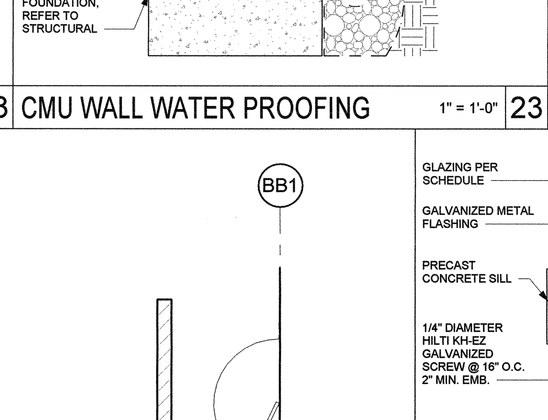
PARTITION ANCHOR 3" = 1'-0" | 7



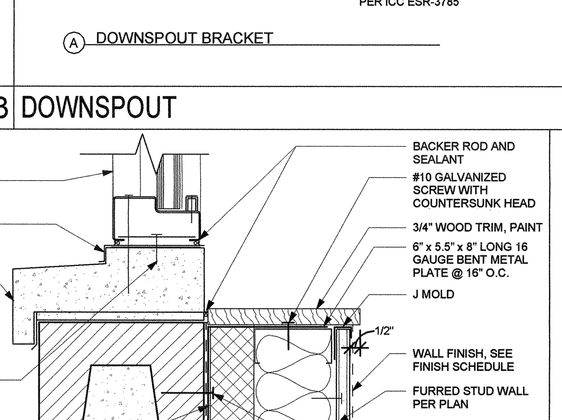
TILE @ METAL STUD 3" = 1'-0" | 2



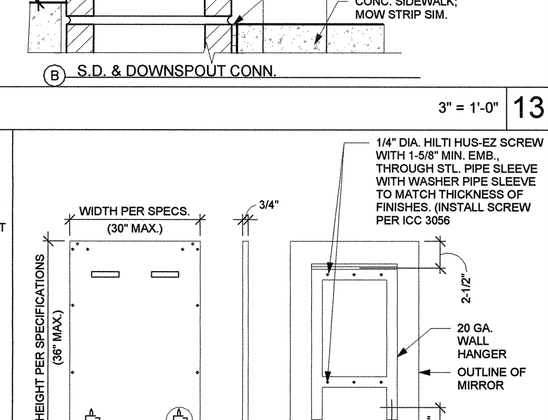
SUPPORT CABLE TO BEAM 1 1/2" = 1'-0" | 28

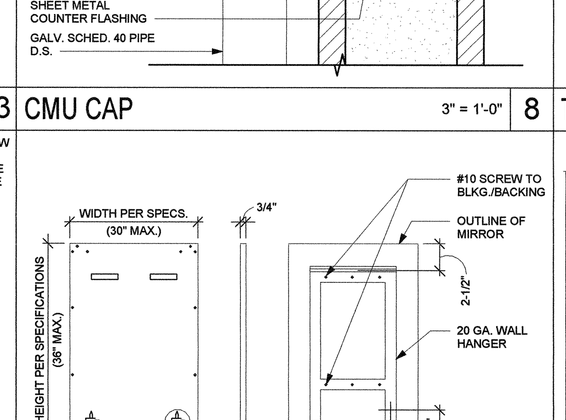


CMU WALL WATER PROOFING 1" = 1'-0" | 23

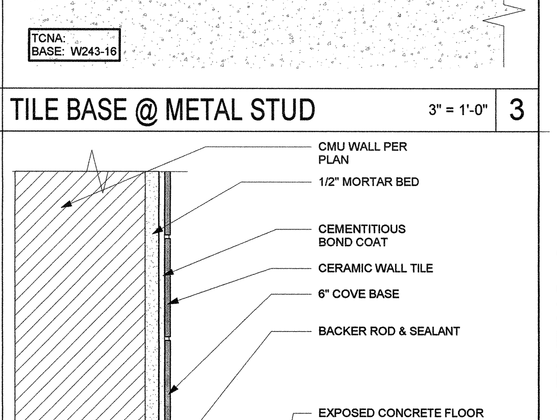


DOWNSPOUT 3" = 1'-0" | 13

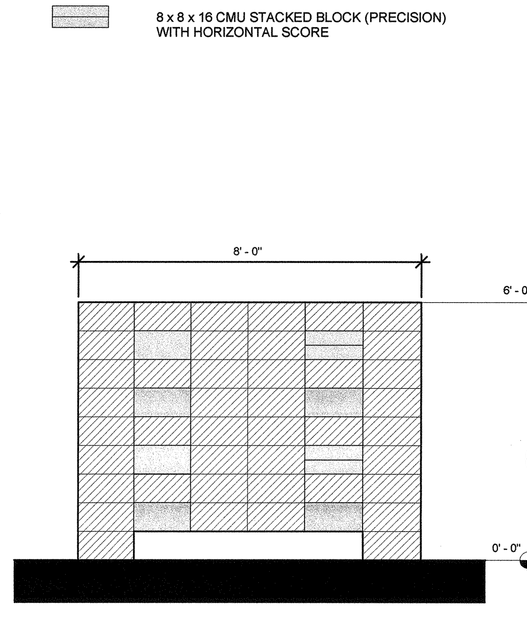




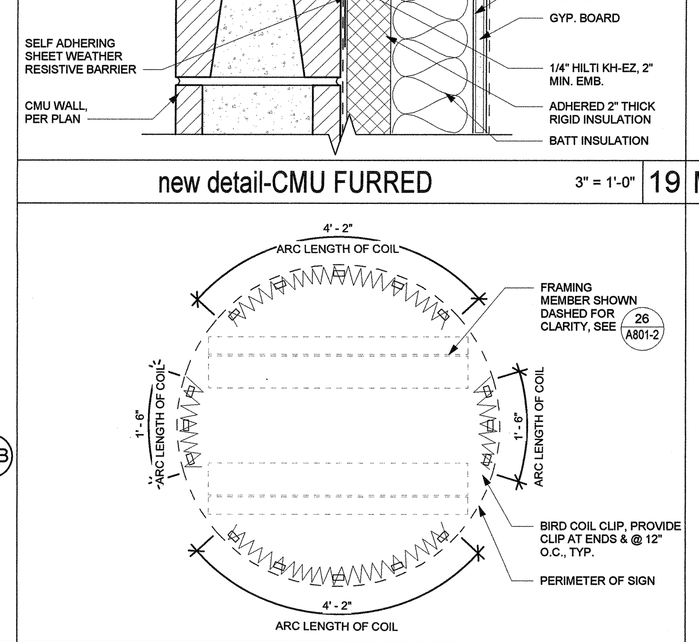
CMU CAP 3" = 1'-0" | 8



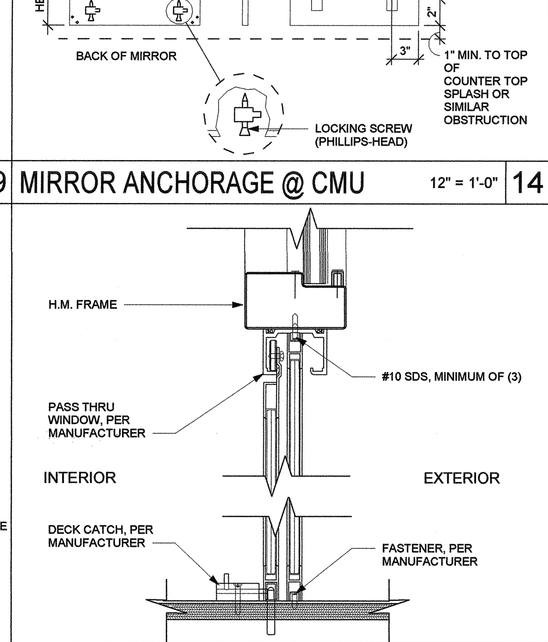
TILE BASE @ METAL STUD 3" = 1'-0" | 3



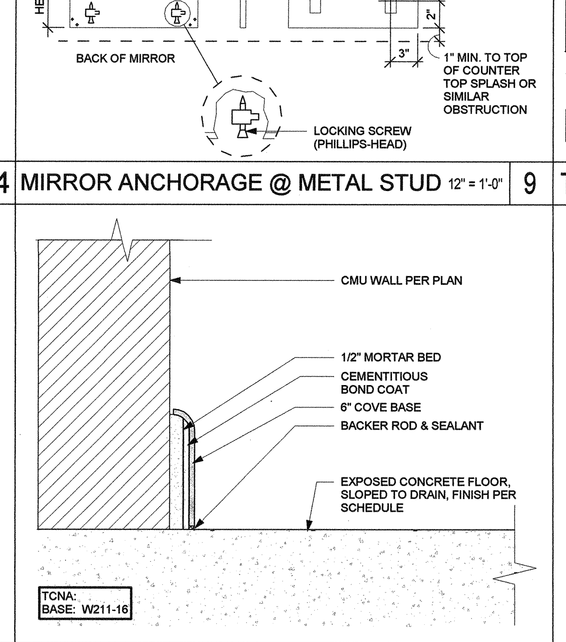
1 - a 1/2" = 1'-0" | 25



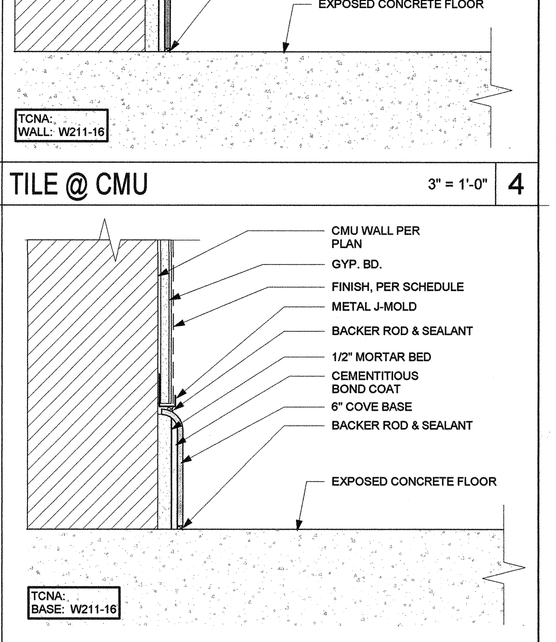
new detail-CMU FURRED 3" = 1'-0" | 19



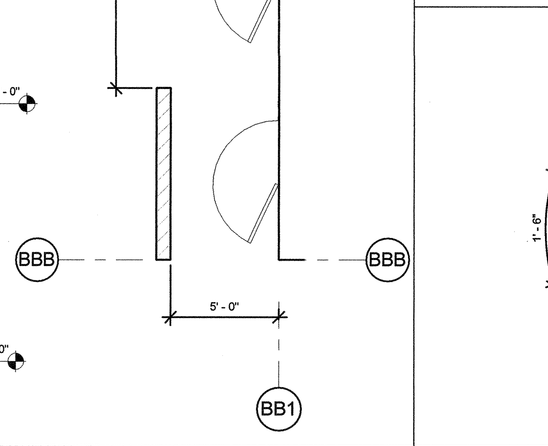
MIRROR ANCHORAGE @ CMU 12" = 1'-0" | 14



MIRROR ANCHORAGE @ METAL STUD 12" = 1'-0" | 9



TILE @ CMU 3" = 1'-0" | 4



SIGN BIRD DETERRENT COIL 3/4" = 1'-0" | 20

PASS THRU WINDOW SECTION 3" = 1'-0" | 15

TILE BASE @ EXPOSED CMU WALL 3" = 1'-0" | 10

TILE BASE @ CMU W/FINISH 3" = 1'-0" | 5

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MARK	DATE	DESCRIPTION
	12/12/18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL: 02-116986

AC FLS SS KG

DATE: 11 DEC 2018

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

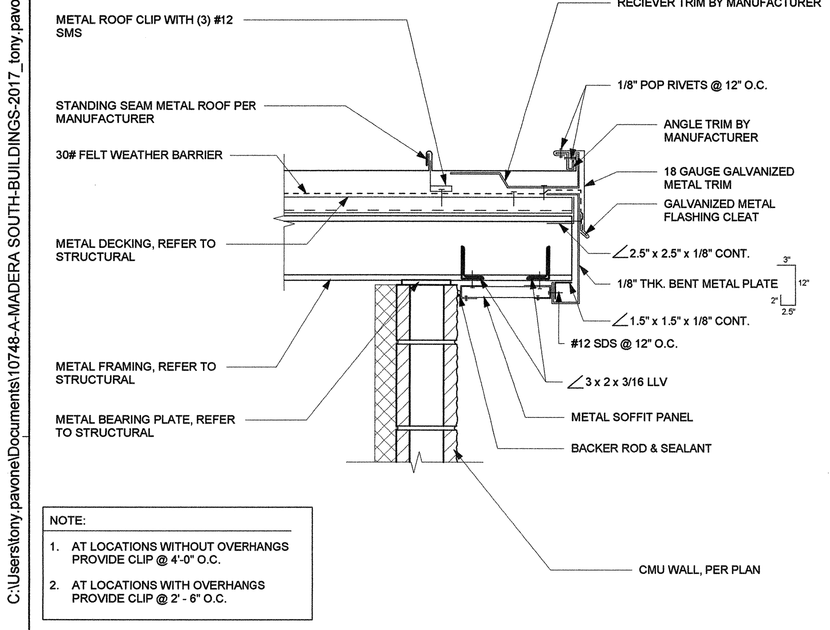
DRAWING TITLE
DETAILS

PROJECT NO.
18-10748

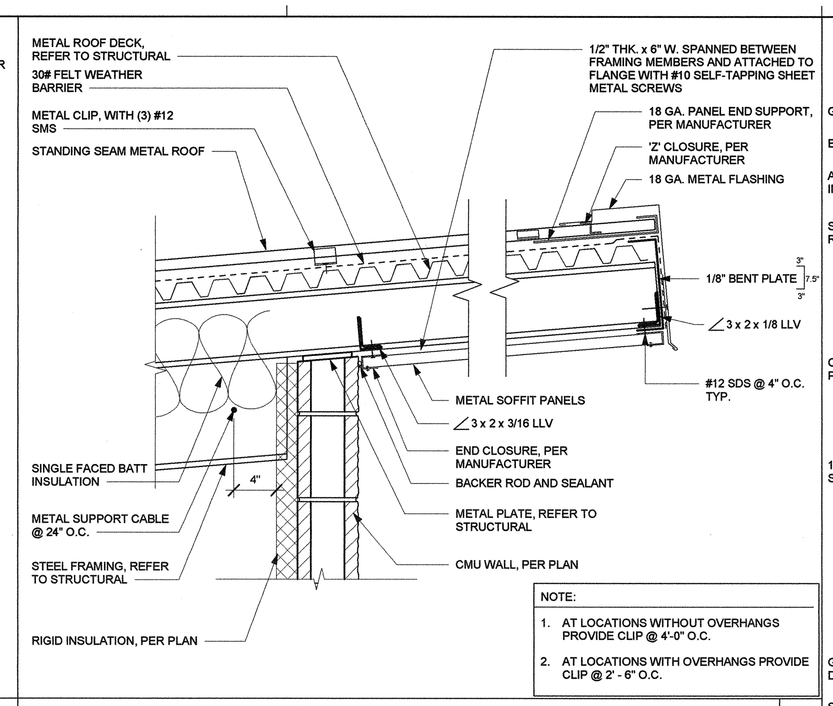
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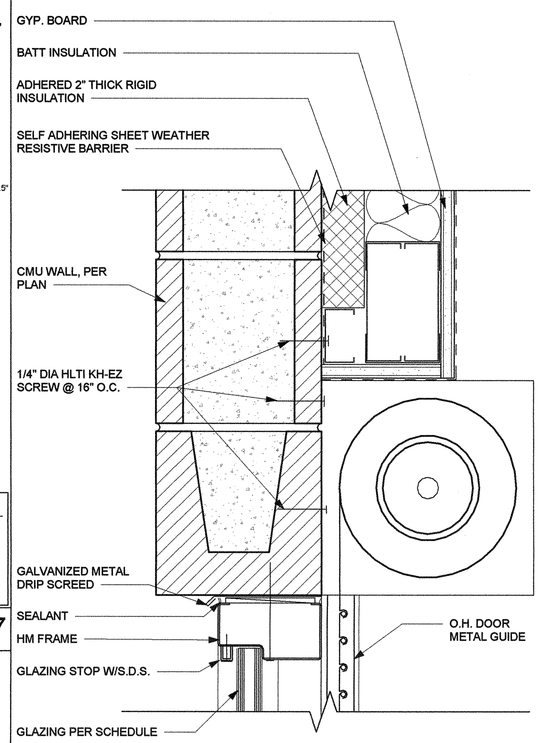
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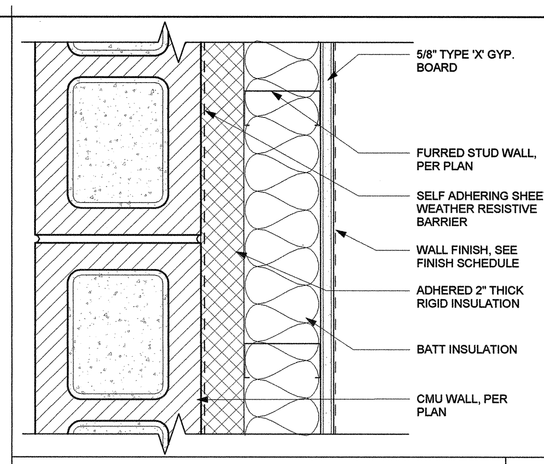


GABLE END 1 1/2" = 1'-0" 23

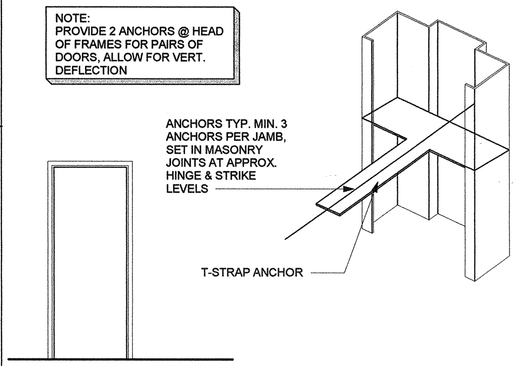


ROOF OVERHANG @ HIGH EAVE 1 1/2" = 1'-0" 17

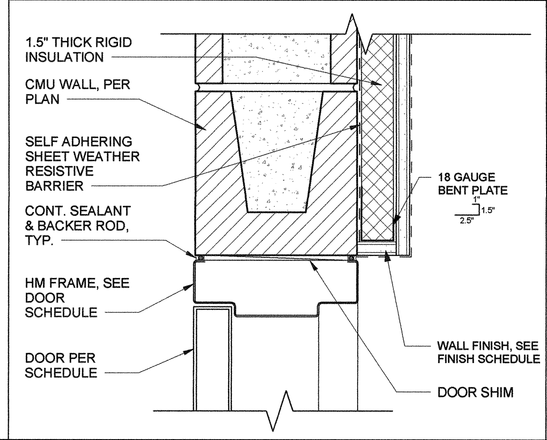


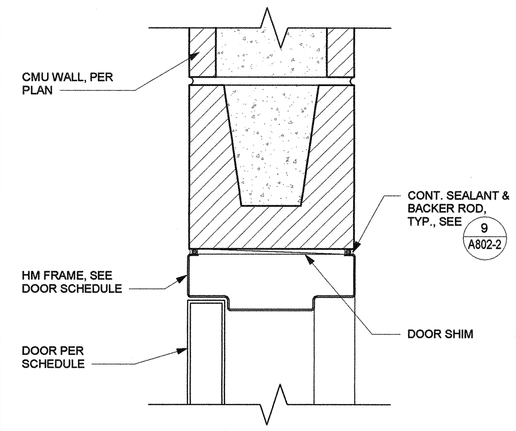


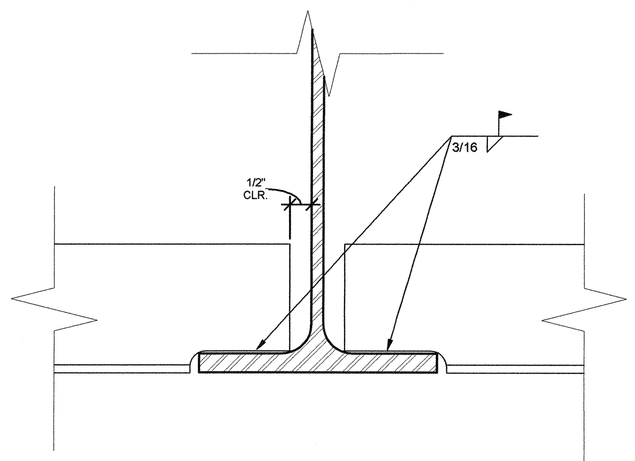
CMU WALL INTERIOR FURRING 3" = 1'-0" 6



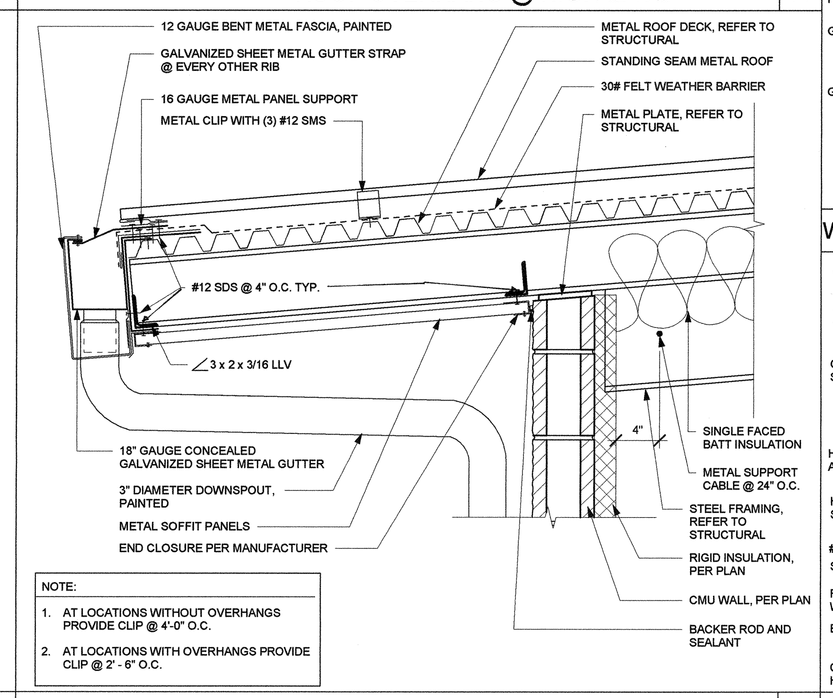
H.M. FRAME ANCHOR @ CMU 1 1/2" = 1'-0" 1



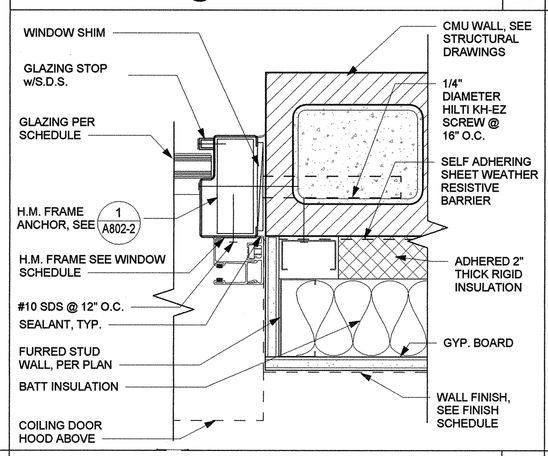




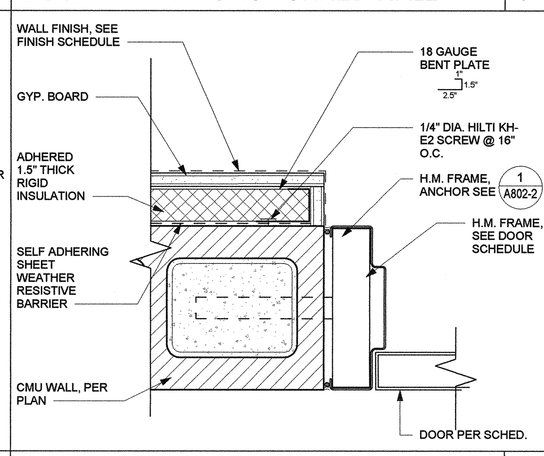
SOFFIT PANEL SUPPORT 6" = 1'-0" 24



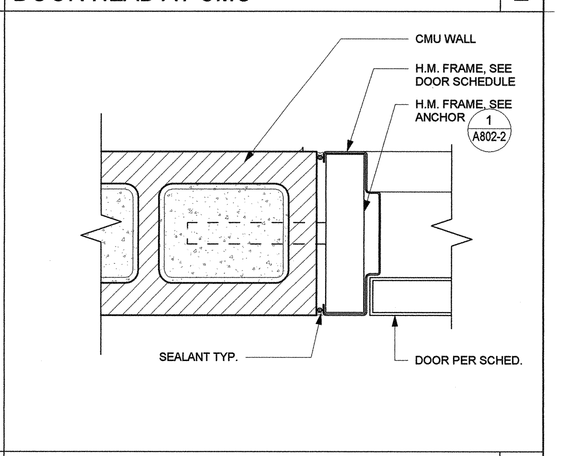
ROOF OVERHANG @ GUTTER 1 1/2" = 1'-0" 18



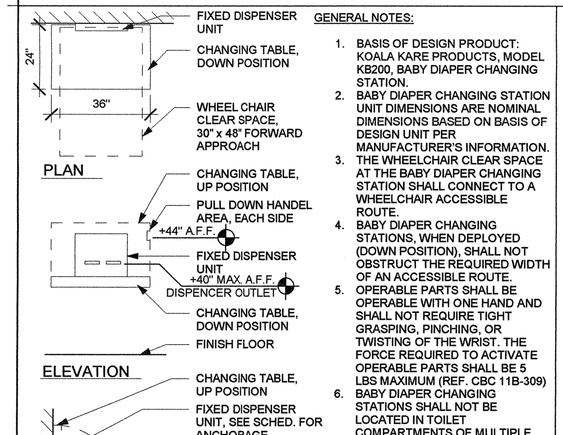
WINDOW HEAD @ CMU FURRED WALL 3" = 1'-0" 13



DOOR HEAD AT CMU FURRED WALL 3" = 1'-0" 7



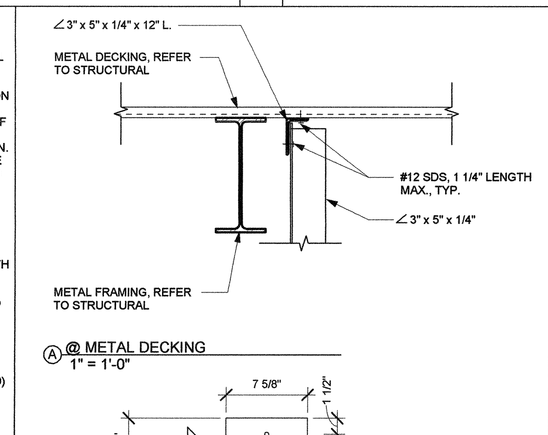
DOOR HEAD AT CMU 3" = 1'-0" 2



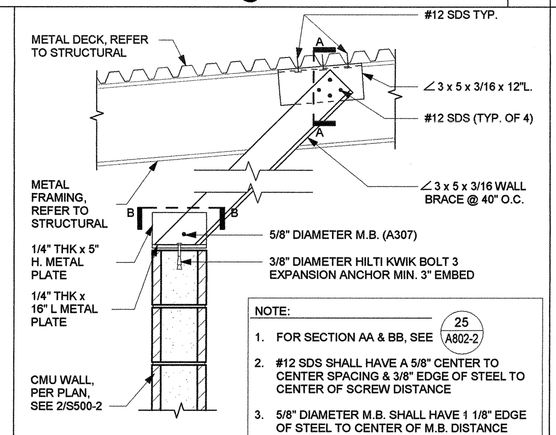
STUD TYPE	FASTENERS (PER STUD)
METAL	(4) #10 STSMS

NOTES:
1. SCREWS TO HAVE LOW PROFILE HEADS
2. SPACE FASTENERS 1" FROM EDGES AND EQUALLY SPACED IN BETWEEN.

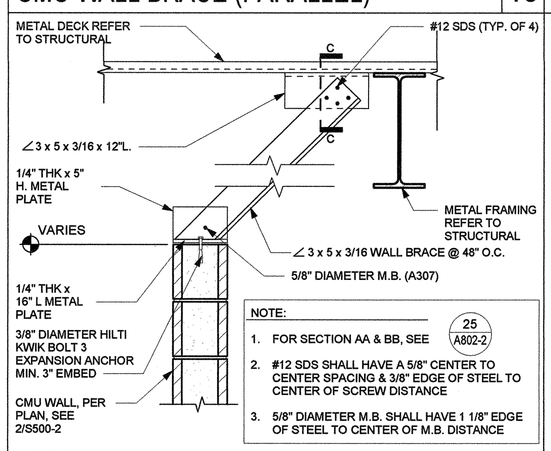
DIAPER CHANGING STATION 3/8" = 1'-0" 30



WALL BRACE ATTACHMENTS 25

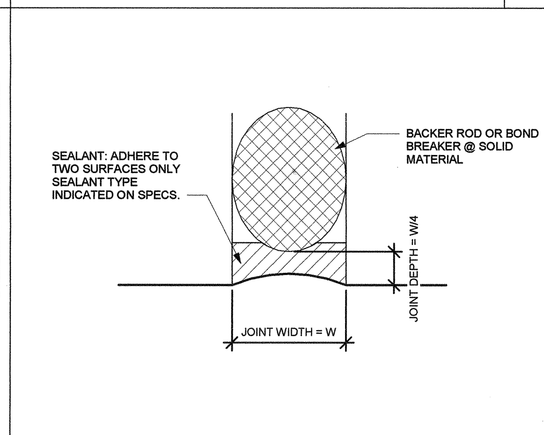


CMU WALL BRACE (PARALLEL) 1" = 1'-0" 19

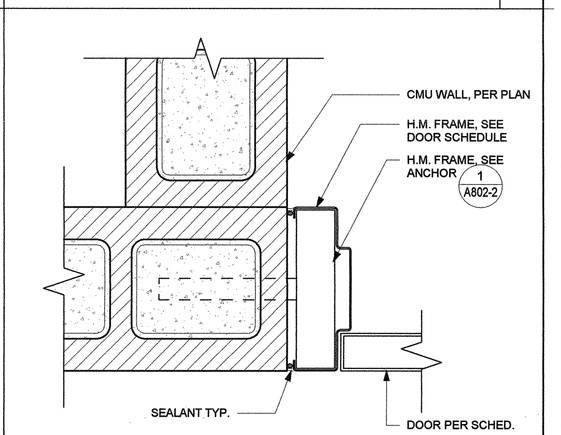


CMU WALL BRACE (PERPENDICULAR 1" = 1'-0" 20

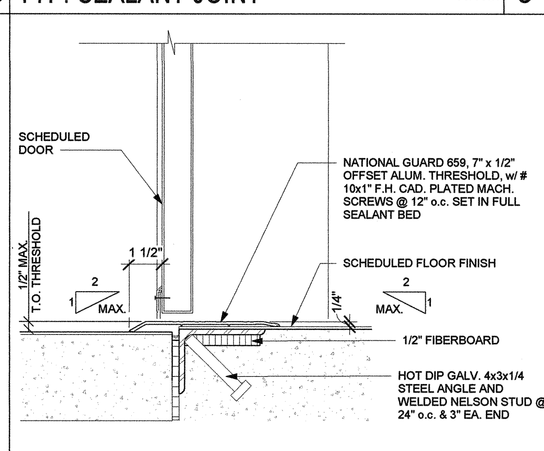
OVERHEAD COILING DOOR @ HD. 3" = 1'-0" 15



TYP. SEALANT JOINT N.T.S. 9

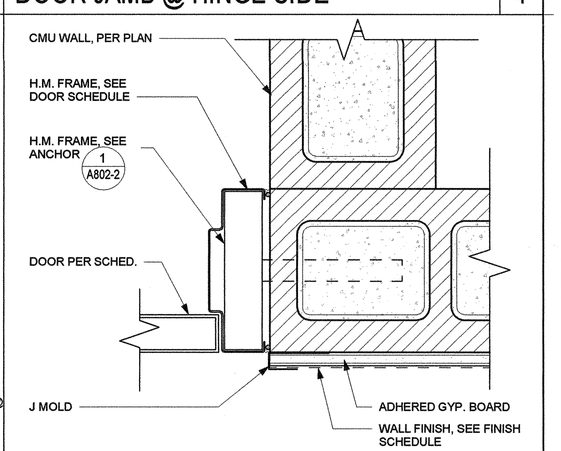


DOOR JAMB @ HINGE SIDE 3" = 1'-0" 4



OVER HEAD DOOR GUIDE 3" = 1'-0" 16

TYPICAL EXTERIOR THRESHOLD 10



DOOR JAMB @ STRIKE SIDE 3" = 1'-0" 5

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MARK	DATE	DESCRIPTION
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APPL: 02-116986

AC FLS SS KG

DATE: 11 DEC 2018

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STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

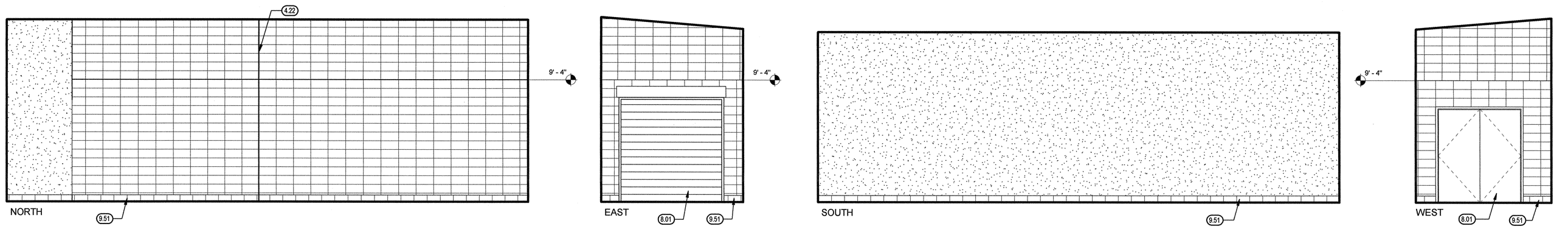
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DETAILS

PROJECT NO.
18-10748

DRAWING
A802-2

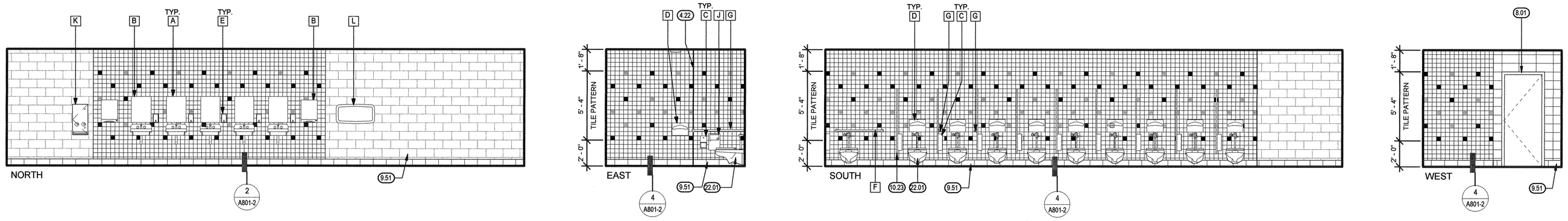
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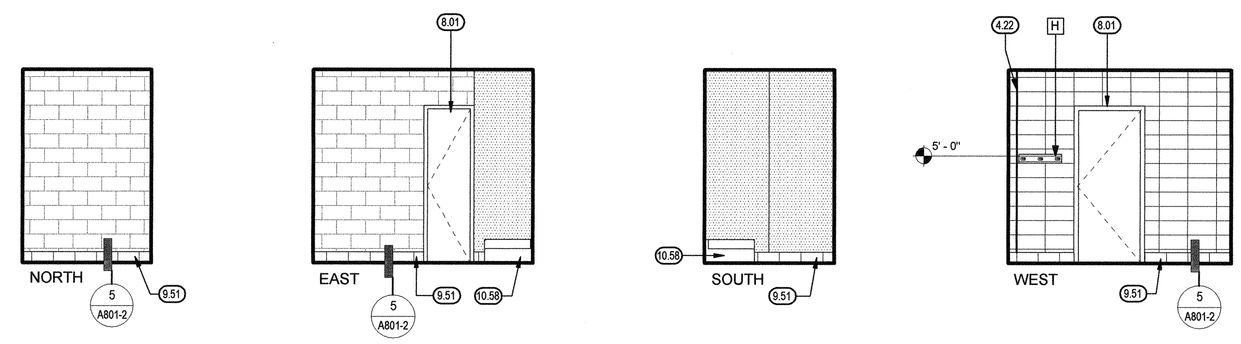
BUILDING 'AA' - STORAGE - ROOM 201

1/4" = 1'-0" 6



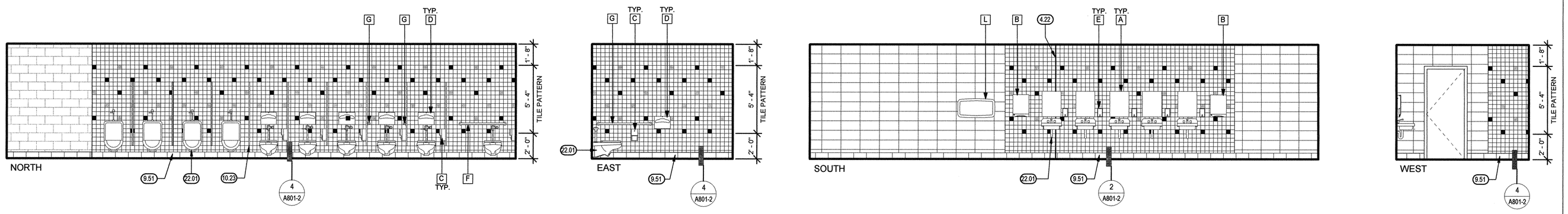
BUILDING 'AA' - GIRLS - ROOM 202

1/4" = 1'-0" 7



BUILDING 'AA' - JANITOR - ROOM 203

1/4" = 1'-0" 8



BUILDING 'AA' - BOYS - ROOM 204

1/4" = 1'-0" 9

KEYNOTES

(90.00)

NO.	KEYNOTE
4.22	CMU CONTROL JOINT, REFER TO STRUCTURAL
8.01	DOOR AND FRAME - SEE DOOR SCHEDULE
9.51	BASE PER SCHEDULE, TYP.
10.23	TOILET PARTITION, TYP., SEE 7/A801-2
10.58	MOP SINK, REFER TO PLUMBING
22.01	ACCESSIBLE PLUMBING FIXTURE, SEE PLUMBING

LEGEND

- CERAMIC WALL TILE - SEE FINISH SCHEDULE
- FIBERGLASS REINFORCED PLASTIC - SEE FINISH SCHEDULE
- EXPOSED STACKED CMU - SEE FINISH SCHEDULE
- EXPOSED RUNNING BOND CMU - SEE FINISH SCHEDULE

GENERAL NOTES

A. KEYNOTES APPLY TO THIS SHEET ONLY

B. PROVIDE BLOCKING FOR ALL WALL MOUNTED ACCESSORIES AND EQUIPMENT WHEN ATTACHED TO METAL STUD WALL

C. FOR ACCESSIBLE CLEARANCES, AND ACCESSORY AND FIXTURE MOUNTING HEIGHTS, SEE SHEET A800-2

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MFR.	MODEL NO.	REMARKS
A	MIRROR (18" X 30")	BOBRICK	B-165 1830	SURFACE MTD.
B	PAPER TOWEL DISPENSER	BOBRICK	B-3944-52	SURFACE MTD.
C	TOILET TISSUE DISPENSER	BOBRICK	B-2888	SURFACE MTD.
D	TOILET SEAT COVER DISPENSER	BOBRICK	B-4221	SURFACE MTD.
E	SOAP DISPENSER	BOBRICK	B-2111	SURFACE MTD.
F	TOILET GRAB BAR, REAR WALL	BOBRICK	B-5806 x 42	42" LONG
G	TOILET GRAB BAR, SIDE WALL	BOBRICK	B-5806 x 48	48" LONG
H	MOP HOLDER	BOBRICK	B-223 x 24	24" LONG
J	SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	SURFACE MTD.
K	SANITARY NAPKIN VENDOR	BOBRICK	B-47069 25	SURFACE MTD.
L	DIAPER CHANGING STATION	KOALA KARE	KB200	SURFACE MTD.

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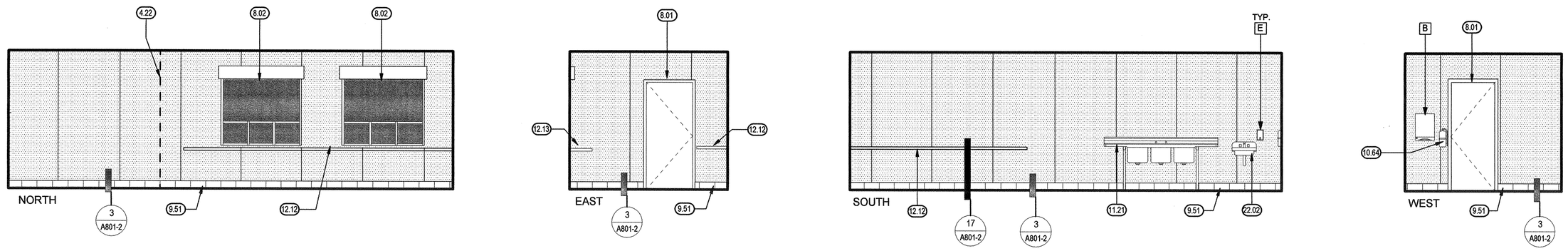
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BUILDING 'AA' - INTERIOR ELEVATIONS

PROJECT NO.
18-10748

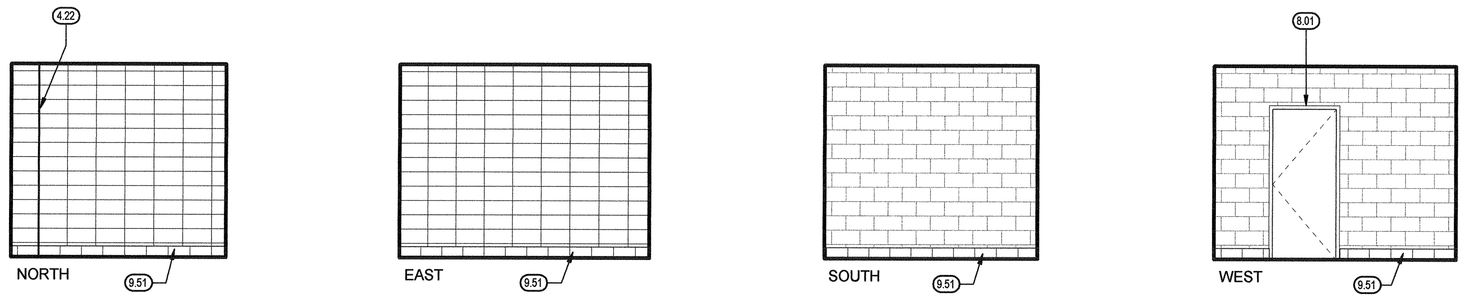
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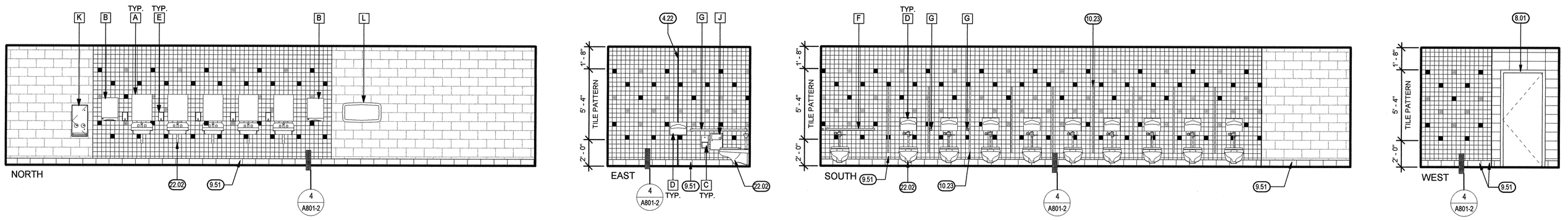
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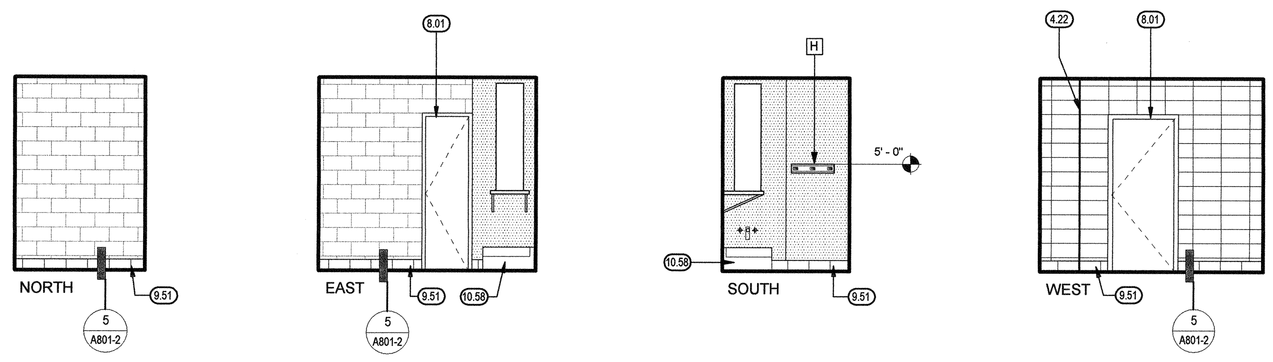
BUILDING 'BB' - CONCESSION - ROOM 100 — 1/4" = 1'-0" — 6



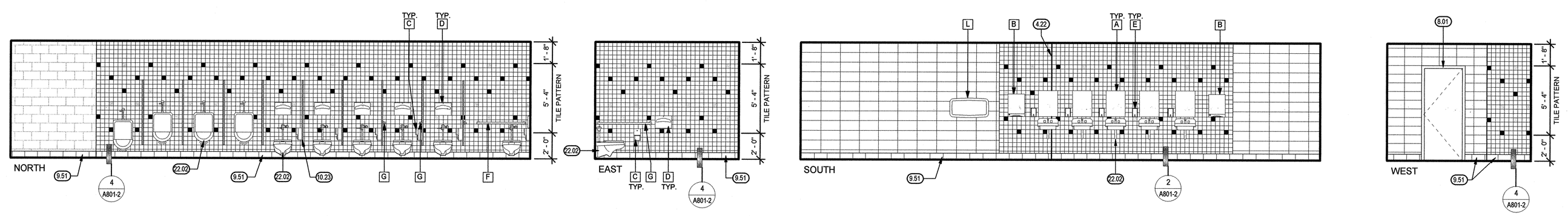
BUILDING 'BB' - STORAGE - ROOM 101 — 1/4" = 1'-0" — 7



BUILDING 'BB' - GIRLS - ROOM 102 — 1/4" = 1'-0" — 11



BUILDING 'BB' - JANITOR - ROOM 103 — 1/4" = 1'-0" — 15



BUILDING 'BB' - BOYS - ROOM 104 — 1/4" = 1'-0" — 16

KEYNOTES (00.00)

NO.	KEYNOTE
4.22	CMU CONTROL JOINT, REFER TO STRUCTURAL
8.01	DOOR AND FRAME - SEE DOOR SCHEDULE
8.02	WINDOW, SEE WINDOW SCHEDULE
9.51	BASE PER SCHEDULE, TYP.
10.23	TOILET PARTITION, TYP., SEE 7/A801-2
10.58	MOP SINK, REFER TO PLUMBING
10.64	FIRE EXTINGUISHER, MIN. 2A: 10B: C, SEE 20/A800-2
11.21	THREE COMPARTMENT SINK, REFER TO PLUMBING
12.12	24" DEEP STAINLESS STEEL COUNTER TOP, SEE 17/A801-2
12.13	20" DEEP STAINLESS STEEL COUNTER TOP, SEE 12/A801-2
22.02	PLUMBING FIXTURE TYP., REFER TO PLUMBING

LEGEND

- CERAMIC WALL TILE - SEE FINISH SCHEDULE
- FIBERGLASS REINFORCED PLASTIC - SEE FINISH SCHEDULE
- EXPOSED STACKED CMU - SEE FINISH SCHEDULE
- EXPOSED RUNNING BOND CMU - SEE FINISH SCHEDULE

GENERAL NOTES

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TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MFR.	MODEL NO.	REMARKS
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D	TOILET SEAT COVER DISPENSER	BOBRICK	B-4221	SURFACE MTD.
E	SOAP DISPENSER	BOBRICK	B-2111	SURFACE MTD.
F	TOILET GRAB BAR, REAR WALL	BOBRICK	B-5806 x 42	42" LONG
G	TOILET GRAB BAR, SIDE WALL	BOBRICK	B-5806 x 48	48" LONG
H	MOP HOLDER	BOBRICK	B-223 x 24	24" LONG
J	SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	SURFACE MTD.
K	SANITARY NAPKIN VENDOR	BOBRICK	B-47069 25	SURFACE MTD.
L	DIAPER CHANGING STATION	KOALA KARE	KB200	SURFACE MTD.

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APPL: 02-116986

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DATE: DEC 2018

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STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
BUILDING 'BB' - INTERIOR ELEVATIONS

PROJECT NO.
18-10748

DRAWING
A901-2

PLOT DATE: 12/8/2018 5:19:59 PM

GENERAL STRUCTURAL

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE **CALIFORNIA BUILDING CODE (CBC 2016)** EDITION: AND ALL OTHER PUBLICATIONS AND STANDARDS LISTED HEREIN. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
2. CONTRACTOR SHALL READ AND FOLLOW ALL REFERENCED ICC-ES REPORTS OR IAPMO-ES REPORTS FOR INSTALLATION OF ITEMS SHOWN. ALTERNATE METHODS OF CONSTRUCTION MAY BE SUBMITTED FOR APPROVAL TO THE PROJECT COORDINATOR WITH APPLICABLE ICC-ES OR IAPMO-ES REPORTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS BEFORE STARTING WORK OR FABRICATION ON NEW (N) OR EXISTING (E) CONSTRUCTION. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SPECIFICATIONS, GENERAL NOTES, AND THE SITE CONDITIONS SHALL BE IMMEDIATELY CALLED TO THE ATTENTION OF THE ENGINEER OF RECORD AND SHALL BE RESOLVED IN WRITING BEFORE PROCEEDING. ANY WORK PERFORMED BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE PERFORMED AT THE GENERAL CONTRACTOR'S'S RISK. ALL WORK SHALL BE PERFORMED IN A WORKMAN LIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
4. PROJECTS WITH EXISTING STRUCTURES, ALL WORK SHALL BE PERFORMED SO AS TO MINIMIZE DAMAGE TO THE EXISTING STRUCTURE AND FINISHES.
5. ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL AGENCY HAVING JURISDICTION IN THE AREA OF THE WORK.
6. THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
7. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR, AND DOES NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR JOB SITE CONDITIONS, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR, AND DOES NOT HAVE CONTROL OR CHARGE OF ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE CONSTRUCTION WORK. THE CONTRACTOR AGREES TO INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
8. THE STRUCTURAL SYSTEMS HAVE BEEN DESIGNED TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. AS PRESCRIBED BY THE GOVERNING BUILDING CODES AND IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES. NO SPECIAL PROVISIONS HAVE BEEN MADE FOR CARRYING CONCENTRATED LOADS FROM STORAGE AND HANDLING OF CONSTRUCTION MATERIALS OR FROM OPERATION OF CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE'S STABILITY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS AND SEQUENCES; TEMPORARY SHORING; FORMWORK AND BRACING; USE OF EQUIPMENT, AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER **DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION (SEI/ASCE 37-14)**.
9. STRUCTURAL OBSERVATION BY THE ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY FOR BUILDING THE PROJECT, CONTROLLING THE PROGRESS, PROVIDING SAFE WORKING CONDITIONS, AND CORRECTING ANY DEVIATIONS FROM PROJECT REQUIREMENTS. SUCH OBSERVATIONS ARE NOT TO BE CONSTRUED AS INSPECTION OF THE WORK. RESPONSIBILITY FOR RESOLUTION OF ANY ITEMS NOTED DURING OBSERVATION AS NOT BEING IN CONFORMANCE WITH THE CONTRACT DOCUMENTS RESTS WITH THE CONTRACTOR, SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER OF RECORD.
10. THE DETAILS ON THESE DRAWINGS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, DETAILS OF A CHARACTER SIMILAR TO THOSE SHOWN SHALL BE USED, SUBJECT TO REVIEW BY THE ENGINEER OF RECORD.
11. THE TYPICAL DETAILS SHOWN ON THE TYPICAL DETAIL SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
12. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
13. OPENINGS, POCKETS, ETC., SHALL NOT BE PLACED IN SLABS, PILASTERS, OR WALLS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS. FOR OPENINGS NOT SHOWN AND/OR DETAILED ON THE STRUCTURAL DRAWINGS AND WHICH PENETRATE STRUCTURAL ELEMENTS, OBTAIN APPROVAL FROM THE ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.
14. IT IS THE INTENTION OF THESE DRAWINGS TO PROVIDE FOR THE FOLLOWING CONTINUITIES:
    - ALL ROOF AND FLOOR STRUTS SHALL BE CONTINUOUSLY CONNECTED FOR THE LENGTH OF THE ROOF OR FLOOR SYSTEM.
    - ALL WALL BRACING AND/OR SHEAR PANELS SHALL BE CONNECTED TO THE ROOF AND/OR FLOOR STRUTS.

    IF THE DETAILS WHICH REFLECT THESE CONTINUITIES ARE NOT EVIDENT ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR CLARIFICATION.
15. FRAME OPENINGS AND SUPPORT MISCELLANEOUS EQUIPMENT AS DETAILED ON THE DRAWINGS. WHERE NO DETAILS ARE PROVIDED, OBTAIN APPROVAL FROM THE ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.
16. ALL EQUIPMENT, MACHINERY, TANKS AND SILOS SHALL BE PLUMB AND LEVEL UNLESS NOTED OTHERWISE.
17. ALL EXTERIOR GLAZING AND FRAMES SHALL BE DESIGNED TO RESIST THE WIND LOADS PRESENTED IN THE "BASIS OF DESIGN" SPECIFICATION.
18. LATERALLY BRACE ALL SUSPENDED EQUIPMENT AND CEILINGS IN CONFORMANCE WITH THE BUILDING CODE.
19. IT IS THE INTENT OF THESE PLANS TO PROVIDE DETAILS OF CONSTRUCTION NECESSARY TO GUIDE THE GENERAL CONTRACTOR WITH STRUCTURAL ASPECTS OF THE PROJECT ONLY. ARCHITECTURAL FEATURES SHALL BE COORDINATED WITH THE OWNER.
20. SEE ALSO PROJECT MANUAL.
21. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSION DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

BASIS OF DESIGN

1. DESIGN LOADS:
   - ROOF DEAD LOAD---------- SEE PLANS
   - ROOF LIVE LOAD---------- SEE PLANS
   - (ROOF LIVE LOAD MAY BE REDUCED PER CBC SECTION 1607A.12)
   - FLOOD HAZARD---------- N/A
   - EXTERIOR WALL---------- 84 PSF
   - INTERIOR WALL---------- 84 PSF
2. SEISMIC FACTORS:
   - RISK CATEGORY---------- III
   - IMPORTANCE FACTOR---------- 1.25
   - Ss---------- 0.674
   - S1---------- 0.269
   - SITE CLASS---------- D
   - SDS---------- 0.566
   - SD1---------- 0.334
   - SEISMIC DESIGN CATEGORY---------- D
   - SEISMIC RESPONSE COEFFICIENT(S), Cs---------- 0.142
   - RESPONSE MODIFICATION FACTOR(S), R---------- 5.0
   - SEISMIC FORCE RESISTING SYSTEM(S)---------- SPECIAL REINFORCED MASONRY WALLS
   - DESIGN BASE SHEAR (EAST-WEST)---------- 23 KIPS
   - DESIGN BASE SHEAR (NORTH-SOUTH)---------- 23 KIPS
   - SYSTEM OVERSTRENGTH FACTOR, Ω---------- 2.5
   - DEFLECTION AMP. FACTOR, Cd---------- 3.5
   - REDUNDANCY FACTOR, ρ---------- 1.0
   - ANALYSIS PROCEDURE USED---------- EQUIVALENT LATERAL FORCE METHOD
   - HORIZONTAL STRUCTURAL IRREGULARITIES---------- N/A
   - VERTICAL STRUCTURAL IRREGULARITIES---------- N/A
   - LOCATION OF BASE---------- TOP OF FOOTING
3. WIND FACTORS:
   - RISK CATEGORY---------- III
   - ULTIMATE DESIGN WIND SPEED---------- 115 MPH
   - WIND EXPOSURE---------- C
   - INTERNAL PRESSURE COEFFICIENT---------- +/- 0.18
   - DESIGN BASE SHEAR (EAST-WEST)---------- 5 KIPS
   - DESIGN BASE SHEAR (NORTH-SOUTH)---------- 5 KIPS
4. THE SCOPE OF THIS PROJECT IS (3) ONE STORY MASONRY BUILDINGS. METAL DECK ON WIDE FLANGED STEAM BEAMS BEARING ON CMU WALLS

BUILDING FOUNDATION AND PREPARATION

1. THE FOUNDATION DESIGN IS IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT PREPARED BY **BSK ASSOCIATES, INC.** REPORT NO. **G18-076-11F**, DATED **APRIL 9, 2018**.
2. THE SOIL PARAMETERS ARE AS FOLLOWS:
   A. SOIL CLASSIFICATION: LOOSE TO MEDIUM SILTY SAND.
   B. ALLOWABLE DESIGN PARAMETERS:

PARAMETER	ALLOWABLE CAPACITY
DEAD + LIVE (CONTINUOUS)	1,700 PSF
DEAD + LIVE (SPREAD)	2,000 PSF
DEAD + LIVE + WIND/SEISMIC (CONTINUOUS)	2,266 PSF
DEAD + LIVE + WIND/SEISMIC (SPREAD)	2,666 PSF
PASSIVE PRESSURE (DRAINED)	390 PSF*
COEFFICIENT OF FRICTION	0.62*

   * APPLY FACTOR OF SAFETY (FS) AS FOLLOWS:
   FS = **1.5** FOR PASSIVE OR FRICTION ONLY
   FS = **2.0** FOR PASSIVE AND FRICTION IN COMBINATION
   FS = **1.2** FOR SEISMIC LOADING
1. FOR OVEREXCAVATION AND COMPACTION INFORMATION, SEE (11/S002-2)
2. CONTRACTOR SHALL REVIEW AND INCORPORATE ALL RECOMMENDATIONS OF SOILS ENGINEER OF RECORD IN THEIR GEOTECHNICAL ENGINEERING INVESTIGATION INDICATED IN NOTE #1 ABOVE.
3. A REPRESENTATIVE OF THE SOILS ENGINEER OF RECORD SHALL BE PRESENT DURING ALL SITE CLEARING AND GRADING OPERATIONS TO TEST AND OBSERVE EARTHWORK CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES AND FOR PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES.
5. DO NOT BACKFILL AROUND THE EXTERIOR PERIMETER WALL UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT BACKFILL UNTIL 7 DAYS MINIMUM AFTER COMPLETION OF THE FLOOR SLABS.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING AND FORM WORK AS REQUIRED FOR THE CONSTRUCTION OF THE BUILDING. PROVIDE TEMPORARY BRACING AS REQUIRED TO HOLD THE VARIOUS ELEMENTS IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
7. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT.
8. PRIOR TO PLACEMENT OF REINFORCING STEEL, A REPRESENTATIVE OF THE SOILS ENGINEER OF RECORD SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES.
9. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

CONCRETE MIX, PLACEMENT, AND FINISH

1. THE QUALITY AND DESIGN OF CONCRETE SHALL BE IN ACCORDANCE WITH THE **CALIFORNIA BUILDING CODE (CBC 2016)** EXCEPT ITEMS NOT SPECIFICALLY COVERED THEREIN SHALL ALSO CONFORM TO **BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)**.
2. CEMENT SHALL BE **TYPE III (NON-CORROSIVE SOILS)** AND SHALL MEET THE REQUIREMENTS SET FORTH IN THE TABLE BELOW:

USE/LOCATION	f'c (psi)	SLUMP (in.)	w/c RATIO	MAX. AGG. SIZE
FOUNDATION	3,000	4	0.53	1 1/2" H.R.
FOUNDATION WALL	3,000	4	0.53	1 1/2" H.R.
SLAB-ON-GRADE	4,000	4	0.45 - 0.50	1" H.R.

NOTES:
AGGREGATE SPECIFICATION SHALL BE AS FOLLOWS:
1. ASTM C33 FOR HARD ROCK (H.R.) AGGREGATE (145pcf)
2. GAP-GRADED MIX IS NOT PERMITTED FOR SLAB ON GRADE. COMPLY WITH GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R-15).

ULTIMATE COMPRESSIVE STRENGTH (f'c) SHOWN BASED ON 28 DAY STRENGTH.

3. THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTOR REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP, SLUMP TOLERANCE SHALL BE +/- 1 1/2 INCHES.
4. TOTAL CEMENTITIOUS MATERIAL SHALL BE THE SUM OF ALL CEMENT PLUS FLYASH. AT THE CONTRACTORS OPTION, FLYASH MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 15% FOR DSA BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. MIXES SHALL NOT CONTAIN LESS THAN 5 1/2 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.
5. FLYASH SHALL CONFORM TO **ASTM C618 CLASS C OR F**. MAXIMUM LOSS OF IGNITION SHALL BE 1.0%
6. ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R.GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED. NO ADMIXTURES SHALL BE ADDED TO THE MIX DESIGN WITHOUT PRIOR APPROVAL OF THE ENGINEER.
7. PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER **GUIDE FOR CONSOLIDATION OF CONCRETE (ACI 309R-05)** USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.
8. ALL MOLDS, ORNAMENTS, GROOVES, ETC., SHOWN ON DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE CONCRETE IS POURED.
9. REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND SPACING OF ALL PLUMBING FIXTURES.
10. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE FOOTINGS UNLESS SPECIFICALLY DETAILED.
11. CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR TRANSFER OF SHEAR AND OTHER FORCES THROUGH THE JOINTS.
12. CONTROL JOINTS (C.J.) SHALL BE LOCATED PER PLAN FOR PROPER SHRINKAGE CONTROL. JOINT SPACING SHALL BE ON A MAXIMUM 12' SPACING EACH WAY (144 SQ. FT.). WHERE POSSIBLE, CONTROL JOINTS ARE TO BE LOCATED AT INTERIOR NON-BEARING PARTITIONS AND AT HIGH OR LOW POINTS OF FLOOR SLOPES. SOFT CUTS FOR THE CONTROL JOINTS SHALL BE MADE IN THE SLAB NO LATER THAN 8 HOURS AFTER PLACEMENT.
    FOR TYPICAL JOINT DETAILS SEE (17/S002-2) & (2/S002-2)
13. ALL CONCRETE SHALL BE FINISHED PER THE PROJECT MANUAL.
14. ALL CONCRETE SHALL BE CURED PER THE PROJECT MANUAL.
15. NON-SHRINK GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 555" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND **ASTM C1107 GRADE B** WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

CONCRETE REINFORCING AND ANCHORAGE

1. CONCRETE SHALL BE AS SPECIFIED IN THE CONCRETE MIX, PLACEMENT AND FINISH SHEET SPECIFICATIONS.
2. ALL REINFORCING SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO **ASTM A615** U.N.O. (A706 WHERE WELDING IS REQUIRED, SEE NOTE #6):
   A. #3 BARS AND LARGER---------- GRADE 60
3. ALL REBAR SHALL BE COLD BENT.
4. SPLICES IN REINFORCING STEEL SHALL BE LAPPED ACCORDING TO DETAIL (1/S002-2) U.N.O.
5. SEPARATE BARS 1 1/2 DIAMETERS OR 1" CLEAR, WHICHEVER IS GREATER. BARS INDICATED AS CONTINUOUS MAY BE FABRICATED IN CONVENIENT LENGTHS, STAGGER LAP SPLICE LOCATIONS A MINIMUM OF 24". FABRICATION DETAILS SHALL CONFORM TO **CRSI MANUAL OF STANDARD PRACTICE 2009 28TH EDITION**.
6. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL REINFORCING THAT IS TO BE WELDED SHALL BE **ASTM A706**, GRADE 60, CONFORMING TO **CBC 2016 SECTION 1704A.3.1** AND IN ACCORDANCE WITH AWS SPECIFICATIONS **(AWS D1.4/D1.4M-2011)**. FABRICATION DETAILS SHALL CONFORM TO **DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315-99)** AND **CRSI MANUAL OF STANDARD PRACTICE 2009 28TH EDITION**. WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR WHICH HAS BEEN BENT COLD. WELDING OF CROSSING SHALL NOT BE BARS PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER.
7. FIELD SPLICES NOT ORIGINALLY SHOWN ON DRAWINGS WILL BE PERMITTED ONLY WITH APPROVAL OF THE ENGINEER.
8. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   - CAST AGAINST EARTH (EXCEPT SLABS ON GRADE)---------- 3"
   - SLABS ON GRADE---------- 1 1/2"
   - EXPOSED TO EARTH OR WEATHER
     - #5 BARS AND SMALLER---------- 1 1/2"
     - #6 BARS AND LARGER---------- 2"
   - NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, JOISTS
     - #11 BARS AND SMALLER---------- 3/4"
     - #14 AND #18 BARS---------- 1 1/2"
9. WELDED WIRE REINFORCEMENT SHALL CONFORM TO **ASTM A-497** AND **ASTM A-185**. LAP ONE FULL MESH ON SIDES AND ENDS. WELDED WIRE REINFORCEMENT SHALL BE SUPPORTED TO WITHSTAND CONCRETE PLACEMENT. PULLING OF MESH INTO PLACE AFTER PLACEMENT IS NOT ALLOWED.
10. ALL ANCHOR RODS SHALL BE OF HEX HEAD TYPE CONFORMING TO **ASTM F1554** GRADE 55 (U.N.O.) CLASS 2A WITH SUPPLEMENTARY REQUIREMENT NO. 1 INCLUDING COLOR MARKING TYPICAL U.N.O. FOR EXPOSED ENDS, PROVIDE COLOR CODING PER **ASTM F1554** OR PERMANENT IDENTIFICATION MARKS PER **ASTM F1554** SUPPLEMENT #2 AND #3 ON EACH ROD FOR IDENTIFICATION.
11. ALL REINFORCING STEEL, ANCHOR RODS, DOWELS AND OTHER INSERTS SHALL BE IN PLACE AND SHALL BE WELL SECURED IN POSITION PRIOR TO POURING CONCRETE.

CONCRETE POST-INSTALLED ANCHOR NOTES

1. POST-INSTALLED ANCHORS SHALL BE THE FOLLOWING:
   A. EPOXIED THREADED ROD ASSEMBLIES SHALL BE:
      a. HILTI HIT-RE 500 V3 EPOXY ICC REPORT NO. ESR-3814, DATED JANUARY, 2017 AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY; STE. 1000, PLANO, TEXAS 75024.
         - MINIMUM EMBEDMENT DEPTHS SHALL BE PER CONTRACT DRAWINGS, PLANS, AND DETAILS.
      b. THREADED ROD SHALL BE ASTM A36 U.N.O.
   B. EPOXIED REBAR ASSEMBLIES SHALL BE:
      a. HILTI HIT-RE 500 V3 EPOXY ICC REPORT NO. ESR-3814 DATED JANUARY 1, 2017 AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY; STE. 1000, PLANO, TEXAS 75024.
         - MINIMUM EMBEDMENT DEPTHS SHALL BE PER CONTRACT DRAWINGS, PLANS, AND DETAILS.
      b. REBAR SHALL BE ASTM A615 GRADE 60.
   C. EXPANSION BOLT ASSEMBLIES SHALL BE:
      a. HILTI KWIK BOLT TZ ASSEMBLY ICC REPORT NO. ESR-1917, DATED MAY 1, 2017 AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY; STE. 1000, PLANO, TEXAS 75024.
   D. SCREW ASSEMBLIES SHALL BE:
      a. HILTI KWIK HUS-EZ ICC REPORT NO. ESR-3027, DATED DECEMBER 1, 2017 AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY; STE. 1000, PLANO, TEXAS 75024.
   E. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. HOLE SHALL BE DRY AND CLEANED WITH WIRE BRUSH AND PRESSURIZED AIR PRIOR TO INSTALLATION. FOR EPOXY APPLICATIONS, USE EQUIPMENT WHICH WILL ACCURATELY MIX AND DISPENSE THE COMPONENTS. THE REBAR OR ROD SHOULD BE ROTATED AS IT IS PUSHED INTO THE HOLE.
2. ALL POST-INSTALLED ANCHORS SHALL BE INSPECTED BY AN APPROVED TESTING AND INSPECTION AGENCY AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ICC OR IAPMO REPORT AND CBC SECTION 1910A.5 TO THE TEST VALUES STATED IN THE TABLE BELOW.
   A. THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH AS DIRECT PULL TEST WITH A HYDAULIC JACK, CALIBRATED SPRING-LOADING DEVICE, A TORQUE WRENCH CALIBRATED FOR USE WITH THE SPECIFIC ANCHOR, ETC.
   B. TEST FREQUENCY
      a. SILL PLATE; 10 PERCENT
      b. ALL OTHER STRUCTURAL APPLICATIONS; 100 PERCENT
      c. NON-STRUCTURAL APPLICATIONS (EQUIPMENT ANCHORAGE, ETC.); 50 PERCENT OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE HALF THE ANCHORS IN EACH GROUP.
      d. SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE, WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE RESISTING SYSTEM, SHALL NOT BE REQUIRED.
      e. *TF INDICATES A TEST FREQUENCY OF 10 PERCENT PER 1910A.5.3 EXCEPTION # 2.
   C. TEST ACCEPTANCE
      a. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING-LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCONCERNABLE MOVEMENT DURING THE TENSION TEST.
      b. FOR ADHESIVE ANCHORS, WHERE OTHER THAN THE BOND IS BEING TESTED, THE TESTING DEVICE SHALL NOT RESTRICT THE CONCRETE SHEAR CONE TYPE FAILURE MECHANISM FROM OCCURING.
      c. TORQUE WRENCH METHOD (MAY NOT BE USED WITH REBAR):
         - ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT. (SCREWS MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/4 TURN OF THE SCREW AFTER THE INITIAL SEATING OF THE SCREW HEAD.
   D. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE SHALL BE TESTED, WHICH ARE INSTALLED BY THE SAME TRADE NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.

TEST LOADS					
REBAR SIZE	ROD/SCREW DIA.	TENSION (LBS)	TORQUE (FT-LBS)		
			ROD	EXP. BOLT	SCREW
- - -	1/4"	-	-	-	18
- - -	3/8"	-	-	25	19, 40*
#4	1/2"	-	-	40	45
#5	5/8"	-	-	60	45
#6	3/4"	-	-	110	95
#7	7/8"	-	-	-	-
#8	1"	-	-	-	-
- - -	1 1/4"	-	-	-	-

NOTE: FOR REBAR/ROD TENSION TEST LOADS SEE PLANS AND DETAILS.
* FOR 1 5/8" EMBED, USE 19; FOR 2 1/2"+ EMBED, USE 40.

3. WHEN INSTALLING POST INSTALLED ANCHORS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE EXISTING REINFORCEMENT AND THE POST-INSTALLED ANCHOR.
4. ANY POST-INSTALLED ANCHOR SHOWN ON THE APPROVED CONTRACT DRAWINGS SHALL BE INSTALLED WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE ICC OR IAPMO REPORT. ANY ITEMS THAT REQUIRE POST-INSTALLED ANCHORS BUT ARE NOT SPECIFICALLY SHOWN ON THE APPROVED CONTRACT DRAWINGS MUST BE IN ACCORDANCE WITH THE ICC OR IAPMO REPORT PRIOR TO BEING INSTALLED.

CONCRETE MASONRY UNITS (CMU)

1. SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 21 OF THE CBC, 2016 EDITION, AND SHALL BE TESTED PER SECTION 2105A.2 OF THE CBC FOR COMPLIANCE WITH f'm. DESIGN CRITERIA: f'm=2,000 PSI. N=16.11 AND Fy=60,000 PSI, Fs=32,000 PSI.
2. ALL CELLS SHALL BE SOLID GROUTED, U.N.O.
3. CONCRETE BLOCK UNITS SHALL CONFORM TO ASTM C90 MEDIUM WEIGHT UNITS WITH MINIMUM FACE SHELL THICKNESS AS DEFINED BY ASTM C90, SECTION 5.3.1. MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI: AND MAXIMUM SHRINKAGE OF 0.065% FROM SATURATED OVEN DRY CONDITION.
4. MORTAR SHALL BE TYPE "S" PER CBC TO CONFORM TO ASTM C270.
5. AGGREGATES FOR MORTAR SHALL BE WASHED SAND CONFORMING TO ASTM C144, WITH AT LEAST 5 PERCENT PASSING THE NO. 200 SIEVE.
6. LIME SHALL CONFORM TO ASTM C207, TYPE S.
7. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
8. GROUT FOR POURING SHALL BE A FLUID CONSISTENCY, CONFORM TO ASTM C476 AND ACI 530-11 WITH A 28 DAY STRENGTH OF f'g = 2000 PSI MINIMUM BUT NO LESS THAN SPECIFIED f'm. SLUMP OF GROUT SHALL NOT EXCEED 8 TO 10 INCHES.
9. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE. GROUT POURS GREATER THAN 12 INCHES SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION 15 TO 20 MINUTES AFTER PLACEMENT TO MINIM

STEEL DECK NOTES

1. STEEL DECKING SHALL BE AS INDICATED ON PLANS. FABRICATION AND INSTALLATION SHALL CONFORM TO **IAPMO-UES REPORT NO. ES-0161 (ISSUED: JUNE 29, 2018)** FOR ASC STEEL DECK.
2. DECK PANELS SHALL SPAN OVER THREE SUPPORTS WHERE STRUCTURAL STEEL FRAMING PERMITS. FLOOR DECK SUPPORTING CONCRETE FILL MUST SPAN OVER THREE SUPPORTS FOR THE OMISSION OF SHORING. DECK PANELS SHALL INCLUDE ALL ACCESSORIES FOR THIS TYPE OF DECKING; SUCH AS CLOSURE, FLASHING, EDGE FORMS, ETC. TO COMPLETE THE INSTALLATION OF THE STEEL DECK. PANELS SHALL BE ALIGNED AND PLACED IN ACCORDANCE WITH THE MANUFACTURER'S ICC-ES OR IAPMO-ES REPORT AND THESE DRAWINGS.
3. OPENINGS IN THE STEEL DECKING SUPPORTING CONCRETE FILL CUTTING NO MORE THAN ONE FLUTE AND LESS THAN 6" IN DIAMETER NEED NO REINFORCING. FOR OPENING EXCEEDING THIS LIMITATION, SEE TYPICAL DETAILS.
4. FOR NELSON STUD ANCHOR REQUIREMENTS SEE STEEL SPECIFICATIONS.
5. WELDING SHALL CONFORM TO **AWS D1.1/D1.1M:2010 AND AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE SHEET STEEL (AWS D1.3/D1.3M:2008)**. SEE STRUCTURAL STEEL SPECIFICATIONS FOR ADDITIONAL WELDING REQUIREMENTS.
6. ENDS OF STEEL DECKING PANELS SHALL BUTT OVER SUPPORTS (NO LAP, U.N.O.). DECK SHALL BEAR 2" MINIMUM ON SUPPORTING FRAMEWORK.
7. THE STEEL DECKING SHALL BE CLEANED OF ALL DIRT, DEBRIS, OIL, WATER AND ANY FOREIGN MATERIAL PRIOR TO APPLICATION OF CONCRETE.
8. APPROVED SHOP DRAWINGS SHOWING LAYOUT AND FASTENING PATTERN MUST BE ON THE JOB SITE FOR INSPECTION PURPOSES.

COLD FORMED STEEL FRAMING

1. ALL COLD FORMED STEEL STUDS, TRACKS AND JOIST 54 MIL (16 GAUGE) AND THICKER SHALL CONFORM TO **ASTM A-653**, GRADE 50, WITH A MINIMUM YIELD OF 50,000 PSI, AND A G60 COATING UNLESS NOTED OTHERWISE.
2. ALL COLD FORMED STEEL STUDS, TRACKS AND JOIST 43 MIL (18 GAUGE)AND LESS IN THICKNESS SHALL CONFORM TO **ASTM A-653**, GRADE 33, WITH A MINIMUM YIELD OF 33,000 PSI, AND A G60 COATING UNLESS NOTED OTHERWISE.
3. ALL COLD FORMED STEEL BRIDGING, END CLOSURES, AND ACCESSORIES SHALL CONFORM TO **ASTM A-611**, GRADE C, WITH A MINIMUM YIELD OF 33,000 PSI, UNLESS NOTED OTHERWISE.
4. FABRICATION AND ERECTION OF ALL COLD FORMED STEEL FRAMING MEMBERS SHALL CONFORM TO **AMERICAN IRON AND STEEL INSTITUTE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI S100-12)** AND **AMERICAN IRON AND STEEL INSTITUTE NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS (AISI S200-12)**.
5. ALL COLD FORMED STEEL PRODUCTS AND ACCESSORIES SUCH AS STUDS, TRACKS, JOISTS, AND MISCELLANEOUS COLD FORMED STEEL FRAMING MEMBERS DESIGNATED ON THESE DRAWINGS AND REQUIRED BY THE COLD FORMED STEEL MANUFACTURER SHALL BE MANUFACTURED BY THE CURRENT MEMBERS OF **STEEL STUD MANUFACTURERS ASSOCIATION (SSMA)** WITH **ICC-ES ER-3064P**. ALTERNATE COLD FORMED STEEL FRAMING SYSTEMS MAY BE SUBMITTED FOR APPROVAL CONSIDERATION TO THE DESIGNER WITH A CURRENT ICC-ES OR IAPMO REPORT.
6. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
7. FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO ERECTION. PREFABRICATED PANELS SHALL HAVE COMPONENTS ATTACHED IN A MANNER AS TO PREVENT RACKING OF THE PANEL AND TO PREVENT DISTORTION IN ANY MEMBER WHILE LIFTING AND TRANSPORTING.
8. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE AS SHOWN ON THE DRAWINGS. AT TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT-WELDED OR SPLICED TOGETHER.
9. FOR TRACK CONNECTIONS AT INTERIOR NON-BEARING, NON-SHEAR WALLS, APPROVED POWER DRIVEN FASTENERS PER (1) 1500-2" MAY BE USED.
10. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO THE FLANGE OR WEBS OF BOTH UPPER AND LOWER TRACKS, U.N.O.
11. WALL STUD BRIDGING SHALL BE ATTACHED IN A MANNER TO PREVENT STUD ROTATION. BRIDGING ROWS SHALL BE SPACED ACCORDING TO THE COLD FORMED STEEL MANUFACTURER'S REQUIREMENTS, BUT NOT GREATER THAN 4'-0" ON CENTER. BRIDGING SHALL BE IN PLACE PRIORTO PLACING LOADINGS.
12. TEMPORARY BRACING OF ALL WALL PANELS SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
13. ALL MEMBER TO MEMBER CONNECTIONS SHALL BE CONNECTED WITH MINIMUM (2) #10 SCREWS WITH 7/16" DIAMETER PAN WASHER HEADS BY 1/2" LONG, UNLESS NOTED OTHERWISE. A 1/16" FILLET WELD BY 3/4" LONG MAY BE SUBSTITUTED FOR THE SCREWS AT THE CONTRACTOR'S OPTION. SEE ABOVE FOR ADDITIONAL WELDING REQUIREMENTS.
14. SPLICES IN AXIALLY LOADED STUDS SHALL NOT BE PERMITTED.
15. FASTENERS THROUGH FIRE TREATED SHEATHING SHALL BE OF HOT DIPPEDZINC COATED GALVANIZED. STEEL, STAINLESS, OR SILICONE BRONZE. FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS, & LAG SCREWS SHALL BE PERMITTED TO BE MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH **ASTM B695, CLASS 55** MIN. VERIFY WITH SHEATHING MANUFACTURER.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED PER AISC SPECIFICATIONS FOR BUILDINGS AND SHALL CONFORM TO THE FOLLOWING, U.N.O.:
   - W SHAPES: **ASTM A992**
   - HSS SHAPES: **ASTM A500, GRADE B**
   - PIPE SHAPES: **ASTM A53, GRADE B**
   - ALL OTHER SHAPES: **ASTM A36**
   - PLATES AND BARS: **ASTM A36**
2. WIDE FLANGE MEMBERS THAT HAVE FLANGE THICKNESS EXCEEDING 2 INCHES SHALL CONFORM TO **ASTM A6 SUPPLEMENTARY REQUIREMENT S30**, CHARPY V-NOTCH IMPACT TEST FOR STRUCTURAL SHAPES - ALTERNATE CORE LOCATION. TEST SHALL MEET A MINIMUM AVERAGE VALUE OF 20 FT LB AT +70 DEG F. WIDE FLANGE MEMBERS THAT ARE PART OF THE LATERAL FORCE RESISTING SYSTEM THAT HAVE FLANGE THICKNESS EXCEEDING 1 1/2 INCHES SHALL ALSO CONFORM.
3. PLATES THAT HAVE 2 INCH THICKNESS AND THICKER SHALL CONFORM TO **ASTM A6 SUPPLEMENTARY REQUIREMENT S5** CHARPY V-NOTCH IMPACT TEST. TEST SHALL MEET A MINIMUM AVERAGE VALUE OF 20 FT LB AT +70 DEG F.
4. FOR ANCHOR ROD REQUIREMENTS SEE CONCRETE SPECIFICATIONS.
5. WELDED THREADED STUDS, HEADED STUDS AND DEFORMED BAR ANCHORS
   A. WELDED THREADED STUDS MAY BE **ASTM A36** (Fy=36 KSI). EQUIVALENT DIAMETER NELSON STUDS ARE ACCEPTABLE. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH **AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1/D1.1M:2010).**
   B. ALL WELDED THREADED STUDS SHALL BE "CFL FULLY THREADED STUDS" MANUFACTURED BY NELSON STUD WELDING, INC. STUDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH **AWS D1.1/D1.1M:2010.**
   C. ALL WELDED HEADED STUDS SHALL BE "S3L SHEAR CONNECTORS" MANUFACTURED BY NELSON STUD WELDING, INC. ALL NELSON STUD ANCHORS SHALL BE 3/4" CONFORMING TO **ASTM A108** WITH FABRICATION AND INSTALLATION IN CONFORMANCE WITH **ICC ESR-2856 (DATED: OCTOBER 2017)** USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH **AWS D1.1/D1.1M:2010.**
   D. ALL DEFORMED BAR ANCHORS SHALL BE "D2L DEFORMED BAR ANCHORS" MANUFACTURED BY NELSON STUD WELDING, INC. CONFORMING TO **ICC ESR-2907 (DATED: DECEMBER 2017)**. ALL DEFORMED BAR ANCHORS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH **AWS D1.1/D1.1M:2010.**
   E. STUD BOLTS SHALL BE "NELSON" STUDS. ALL NELSON STUD ANCHORS SHALL BE 3/4" CONFORMING TO **ASTM A108** WITH FABRICATION AND INSTALLATION IN CONFORMANCE WITH **ICC ESR-2856 (DATED: OCTOBER 2017)**.
6. ALL UNFINISHED NUTS AND BOLTS "MACHINE BOLTS" (M.B.) SHALL BE **ASTM A307** U.N.O.
7. HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
8. ALL BOLT HOLES IN STEEL SHALL BE PUNCHED OR DRILLED. NO TORCHING OF HOLES ALLOWED. HOLES SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER, U.N.O.
9. WELDING:
   A. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING THE SHIELDED ARC PROCESS AND IN ACCORDANCE WITH AWS STANDARDS. JOINT DETAILS SHALL COMPLY WITH AWS REQUIREMENTS FOR JOINTS ACCEPTED WITHOUT QUALIFICATION TESTS.
   B. ALL WELDS SHALL BE UNIFORM IN SIZE AND APPEARANCE, AND FREE OF PINHOLES, POROSITY, UNDERCUTTING OR OTHER DEFECTS. ALL BUTT WELDS SHALL BE FULL PENETRATION.
   C. NO WELDING PERMITTED ON MEMBERS SUPPORTING LOADS.
   D. WELD METAL SHALL HAVE A NOMINAL TENSILE STRENGTH OF 70,000 PSI MINIMUM.
   E. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20° F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION. SEE ELEVATION DRAWINGS FOR LOCATIONS OF THE LATERAL FORCE RESISTING SYSTEM.
   F. WHERE DEMAND CRITICAL WELDS HAVE FILLER METALS USED IN COMBINATION WITH FLUXES THAT CONSTRAIN PROCESSES (INTERNAL). PROVIDE CERTIFICATION OF CHARPY V-NOTCH COMPATIBILITY PER **AISC 341-10 & AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT (AWS D1.8/D1.8M:2009).**
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.
11. ALL STEEL SHALL BE THOROUGHLY CLEANED, REMOVING ALL LOOSE MILL SCALE, GREASE, DIRT AND FOREIGN MATTER BY SCRAPING OR SANDBLASTING.
12. ALL STEEL TO BE GREY PRIMER COLOR. DO NOT SHOP PAINT TO THE FOLLOWING:
   A. SURFACES WHICH WILL BE ENCASED IN CONCRETE OR MORTAR. PAINT EMBEDDED STEEL WHICH IS PARTIALLY EXPOSED ON EXPOSED PORTIONS AND INITIAL TWO INCHES OF EMBEDDED PORTIONS ONLY.
   B. SURFACES WITHIN 2 INCHES OF JOINTS TO BE WELDED IN FIELD INCLUDING TOP FLANGES OF MEMBERS SUPPORTING STEEL DECKING WHICH ARE TO BE WELDED.
13. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH **ASTM A123**, **ASTM A384**, AND **ASTM A385**. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OF PRODUCE OBJECTIONABLE FUMES.
14. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.
15. FINAL PAINT AND COLOR FOR EXPOSED STEEL SHALL BE PER OWNER'S SPECIFICATION.
16. IMMEDIATELY AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS OF SHOP PAINT. APPLY PRIMER TO EXPOSED AREAS WITH SAME MATERIAL AS USED FOR SHOP PRIMER.

SUBMITTAL/SPECIAL CONDITIONS

1. PRIOR TO COMMENCEMENT OF EXCAVATION FOR FOUNDATIONS (AT LEAST 48 HOURS) THE CONTRACTOR IS TO CONTACT THE GEOTECHNICAL ENGINEER, WHO IS TO ADVISE THE BUILDING OFFICIAL IN WRITING THAT: THE BUILDING PAD WAS PREPARED AND COMPACTED IN ACCORDANCE WITH THE SOILS REPORT RECOMMENDATIONS. ADDITIONALLY THAT THE FOUNDATION GRADING WAS PERFORMED IN CONFORMANCE WITH THE SOILS REPORT RECOMMENDATIONS AND APPROVED PLANS. A COPY OF THE REPORT SHALL BE GIVEN TO THE STRUCTURAL ENGINEER OF RECORD.
2. PRIOR TO REQUESTING A FOUNDATION INSPECTION (AT LEAST 48 HOURS) THE CONTRACTOR IS TO CONTACT THE GEOTECHNICAL ENGINEER, WHO IS TO ADVISE THE BUILDING OFFICIAL IN WRITING THAT: THE BUILDING FOUNDATION FOOTING EXCAVATION DEPTH, BACKFILL MATERIALS AND DRAINAGE SUBSTANTIALLY CONFORMS WITH THE SOILS REPORT RECOMMENDATIONS AND APPROVED PLANS. A COPY OF THE REPORT SHALL BE GIVEN TO THE STRUCTURAL ENGINEER OF RECORD.
3. STEEL FABRICATORS WHO PERFORM WORK UNDER A CERTIFICATION PROGRAM (SUCH AS AISC) ARE TO SUBMIT COPIES OF THEIR APPROVAL. CBC SEC. 1704.2.5.
4. SPECIAL INSPECTION REPORTS ARE TO BE SUBMITTED DIRECTLY TO THE ENFORCEMENT AGENCY PER CBC SEC. 1704.2.4 (1704A.2.4) (WITH COPIES TO STRUCTURAL ENGINEER OF RECORD, GENERAL CONTRACTOR AND OWNER).
5. PROJECT INSPECTOR SHALL BE DSA CERTIFIED ACCORDING TO PART 1, 4-333.1, SPECIAL INSPECTOR SHALL BE DSA APPROVED ACCORDING TO PART 1, 4-335 (f).
6. THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR DELIVERY.
   A. CONCRETE MIX DESIGN
   B. REINFORCING STEEL
   C. STRUCTURAL STEEL
   D. MASONRY REINFORCING STEEL
   E. METAL DECK
   F. COLD FORMED METAL FRAMING & ACCESSORIES
   G. MISCELLANEOUS STEEL
   H. CONTRACTORS STATEMENT OF RESPONSIBILITY
7. PRODUCT SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE SHEET SPECIFICATION AND THE PROJECT MANUAL, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES , IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR. SUBSTITUTIONS AFFECTING STRUCTURAL SAFETY, FIRE AND LIFE SAFETY OR ACCESS COMPLIANCE SHALL BE APPROVED BY DSA PRIOR TO FABRICATIONS OR USE.
8. INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACT DRAWINGS, SPECIFICTAIONS AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN RESPONSIBLE CHARGE AND APPROVED BY DSA.

STRUCTURAL OBSERVATION PROGRAM

1. STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE STRUCTURAL OBSERVATION PER **CBC 1704.6 (1704A.6)**. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER 48 HOURS PRIOR TO COMPLETION OF THE FOLLOWING TO ARRANGE FOR PERIODIC OBSERVATION:
   A. FOUNDATION AND SLAB REINFORCING PRIOR TO PLACEMENT OF CONCRETE.
   B. ROOF DECK WELDING PRIOR TO PLACEMENT OF ROOFING.
   C. MASONRY LAYOUT & CONSTRUCTION PRIOR TO PLACEMENT OF GROUT.
2. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED. THE STRUCTURAL OBSERVER SHALL MAKE ADDITIONAL SITE VISITS AS NECESSARY TO VERIFY THAT ALL REPORTED DEFICIENCIES HAVE BEEN SATISFACTORILY CORRECTED.

CONTRACTOR RESPONSIBILITY

1. CONTRACTOR RESPONSIBILITY - **CBC 2016 SECTION 1704.4 (1704A.4)**: EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS (CBC **SECTION 1704.3 (1704A.3)**) SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATIONS

&	AND	JST.	JOIST
∠	ANGLE	JT.	JOINT
@	AT		
C.L.	CENTERLINE		
Ø	DIAMETER OR ROUND	K.O.	KNOCK OUT
//	PARALLEL	K.O.P.	KNOCK OUT PANEL
⊥	PERPENDICULAR		
PL.	PLATE		
#	POUND OR NUMBER	LB(S)	POUND (POUNDS)
(C=)	CAMBER	L.F.	LINEAL FOOT
(E)	EXISTING	L.H.	LEFT HAND
(N)	NEW	LL	LIVE LOAD
		LLH	LONG LEG HORIZ.
		LLV	LONG LEG VERT.
A.B.	ANCHOR BOLT	LOC.	LOCATION
ABV.	ABOVE	LSL	LAMINATED STRAND LUMBER
ADDL.	ADDITIONAL	LT.WT.	LIGHT WEIGHT
ADJC.	ADJACENT	LVL	LAMINATED VENEER LUMBER
A.F.F.	ABOVE FINISH FLOOR		
A.F.G.	ABOVE FINISH GRADE		
AGG.	AGGREGATE	MACH.	MACHINE
ALT.	ALTERNATE	MAINT.	MAINTENANCE
ALUM.	ALUMINUM	MAX.	MAXIMUM
APPROX.	APPROXIMATE	M.B.	MACHINE BOLT
ARCH.	ARCHITECT(URAL)	M.B.M.	METAL BUILDING MFR.
		MECH.	MECHANICAL
		MED.	MEDIUM
BEL.	BELOW	MEMB.	MEMBRANE
BLDG.	BUILDING	MET.	METAL
BLK.	BLOCK	MEZZ.	MEZZANINE
BLKG.	BLOCKING	MFR.	MANUFACTURER
BM.	BEAM	MIL.	MILLIMETER
B.F.	BOUNDARY FASTENING	MIN.	MINIMUM
B.O.D.	BOTTOM OF DECK	MISC.	MISCELLANEOUS
B.O.F.	BOTTOM OF FOOTING	MPH	MILES PER HOUR
BOT.	BOTTOM	MTL	METAL
BRG.	BEARING		
BTWN.	BETWEEN		
B.U.	BUILT-UP	N	NORTH
		N.I.C.	NOT IN CONTRACT
CANT.	CANTILEVER	NO.	NUMBER
C.F.	CUBIC FOOT	NOM.	NOMINAL
C.J.	CONSTRUCTION JOINT/ CONTROL JOINT	NS	NEAR SIDE
		N.T.S.	NOT TO SCALE
C.L.	CENTER LINE	N.W.	NORMAL WEIGHT
CLG.	CEILING		
CLR.	CLEAR/CLEARANCE	O/	OVER
CMU	CONCRETE MASONRY UNIT	O.C.	ON CENTER
COL.	COLUMN	O.D.	OUTSIDE DIAMETER/DIM.
CONC.	CONCRETE	OFOW	OUTSIDE FACE OF WALL
CONN.	CONNECTION	O.H.	OPPOSITE HAND
CONST.	CONSTRUCTION	O.H.M.S.	OVAL HEAD MACH. SCREW
CONT.	CONTINUOUS	O.H.W.S.	OVAL HEAD WOOD SCREW
CONTR.	CONTRACTOR	OPNG.	OPENING
COORD.	COORDINATION	OPP	OPPOSITE
CP	COMPLETE PENETRATION	ORIG.	ORIGINAL
C.T.C.	CENTER TO CENTER	OVHD	OVER HEAD
CTR.	CENTER	OWSJ	OPEN WEB STEEL JOIST
CTRD.	CENTERED		
CTSK	COUNTERSUNK		
CU.	CUBIC	P.A.F.	POWDER ACTUATED FASTENER
C.Y.	CUBIC YARD	PERP.	PERPENDICULAR
		PL	PLATE
DBL.	DOUBLE	PLY.	PLYWOOD
DEMO	DEMOLISH / DEMOLITION	PP	PARTIAL PENETRATION
DET.	DETAIL	PSF	POUNDS PER SQUARE FOOT
D.F.	DOUGLAS FIR	PSI	POUNDS PER SQUARE INCH
DIA.	DIAMETER	PSL	PARALLEL STRAND LUMBER
DIAG.	DIAGONAL	PT.	POINT
DIM.	DIMENSION	P.T.	POST TENSION
DL	DEAD LOAD	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
DN.	DOWN	PTN.	PARTITION
DP.	DEEP	PW	PLYWOOD
DWG.(S)	DRAWING(S)		
DWL	DOWEL		
		R.	RADIUS
		REINF.	REINFORCING
E	EAST	REM.	REMOVE
EA.	EACH	REQD.	REQUIRED
E.F.	EACH FACE	R.H.	RIGHT HAND
E.F.	EDGE FASTENING	R.H.W.S.	ROUND HEAD WOOD SCREW
E.J.	EXPANSION JOINT	R.O.	ROUGH OPENING
EL.	ELEVATION		
ELEC.	ELECTRIC(AL)		
ELEV.	ELEVATOR	S	SOUTH
EMB.	EMBEDMENT	SAD	SEE ARCH. DRAWINGS
ENGR.	ENGINEER	SCHED.	SCHEDULE
EQ.	EQUAL	SCL	STRUCTURAL COMPOSITE LUMBER
EQUIP.	EQUIPMENT		
ETC.	ETCETERA	SDS	SELF DRILLING SCREW
EW.	EACH WAY	SECT.	SECTION
EXIST.	EXISTING	SF	SQUARE FEET/FOOT
EXP.	EXPANSION	SHTG.	SHEATHING
EXT.	EXTERIOR	SIM.	SIMILAR
		S.M.	SHEET METAL
FDN.	FOUNDATION	SMS	SHEET METAL SCREW
F.F.	FINISH FLOOR	S.O.G.	SLAB-ON-GRADE
F.G.	FINISH GRADE	SPEC.	SPECIAL
FHMS	FLAT HEAD MACH. SCREW	SPEC(S).	SPECIFICATION(S)
FHWS	FLAT HEAD WOOD SCREW	SQ.	SQUARE
FIN.	FINISH	S.S.	STAINLESS STEEL
FLR.	FLOOR(ING)	STD.	STANDARD
F.O.	FACE OF	STIFF.	STIFFENER
F.O.C.	FACE OF CONCRETE	STL.	STEEL
F.O.M.	FACE OF MASONRY	STRUCT.	STRUCTURAL
F.O.S.	FACE OF STUD	STS	SELF TAPPING SCREW
F.O.W.	FACE OF WALL	SUSP.	SUSPENDED
FRMG	FRAMING	SYM.	SYMMETRICAL
F.S.	FAR SIDE		
FT.	FOOT/FEET	T&B	TOP AND BOTTOM
FTG.	FOOTING	T&G	TONGUE AND GROOVE
FUT.	FUTURE	TEMP.	TEMPORARY
		THK.	THICK
		THRD.	THREADED
GA.	GAUGE/GAGE	TMPD.	TEMPERED
GALV.	GALVANIZED	T.O.C.	TOP OF CONCRETE
G.C.	GENERAL CONTR.	T.O.F.	TOP OF FOOTING
GEN.	GENERAL	T.O.P.	TOP OF PLATE
G.I.	GALVANIZED IRON	T.O.PLY.	TOP OF PLYWOOD
GL	GLULAM	T.O.S.	TOP OF STEEL
GLB	GLULAM BEAM	T.O.W.	TOP OF WALL
GR.	GRADE	TRTD.	TREATED
GWB	GYPSUM WALL BOARD	TYP.	TYPICAL
GYP.	GYPSUM		
		U.N.O.	UNLESS NOTED OTHERWISE
H.C.	HOLLOW CORE	U.O.N.	UNLESS OTHERWISE NOTED
HDR.	HEADER	U.T.	ULTRASONIC TESTED
HGR	HANGER		
HORIZ.	HORIZONTAL		
HSB	HIGH STRENGTH BOLT	VERT.	VERTICAL
HSS	HOLLOW STEEL SECTION		
HT.	HEIGHT		
HVAC	HEATING/VENTILATING / AIR CONDITIONING	W	WEST OR WIDTH/WIDE
		W/	WITH
		WF	WIDE FLANGE
I.D.	INSIDE DIAMETER/DIM.	W/O	WITHOUT
IFOW	INSIDE FACE OF WALL	WP	WORKPOINT
INFO	INFORMATION	W.S.	WOOD SCREW
INSP.	INSPECTION/INSPECTOR	WT.	WEIGHT
INSUL.	INSULATION	WWF	WELDED WIRE FABRIC
INT.	INTERIOR	WWM	WELDED WIRE MESH
INTERM.	INTERMEDIATE		
INST.	INSTALLATION	YD	YARD

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MARK	DATE	DESCRIPTION
	12/12/18	100% CD DSA SUBMITTAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL: 02-116986
AC. — FLS — SS KG
DATE: 11 DEC 2018

REGISTERED PROFESSIONAL ENGINEER — STRUCTURAL — No. S 5403 — STATE OF CALIFORNIA — 12/13/18

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE: GENERAL NOTES

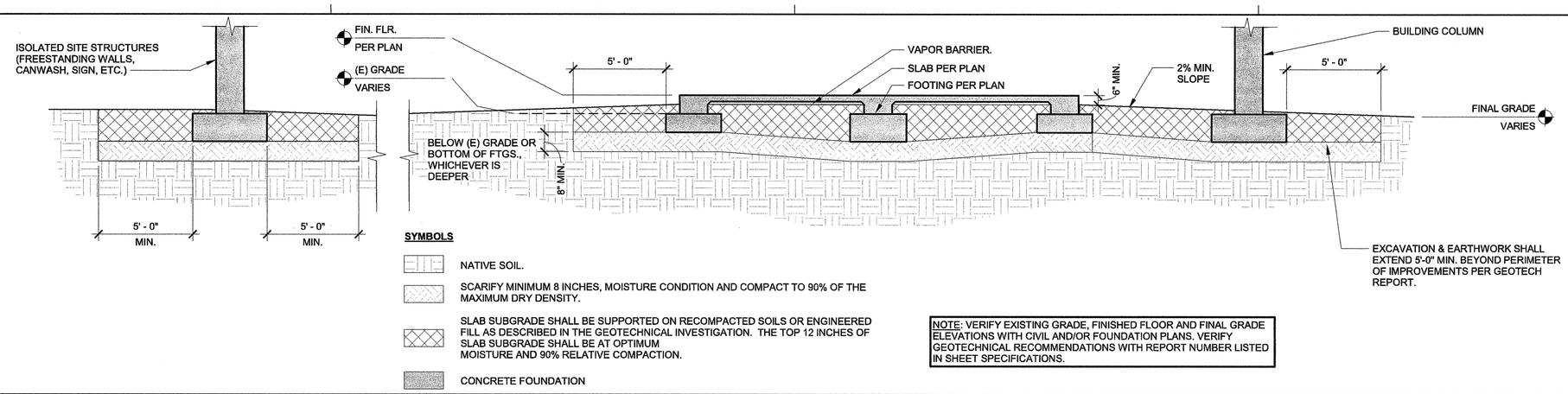
PROJECT NO. 18-10748

DRAWING S001-2

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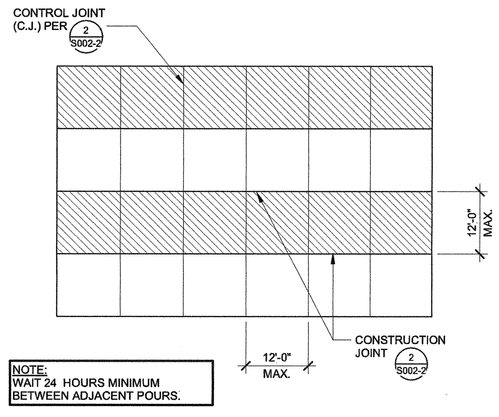
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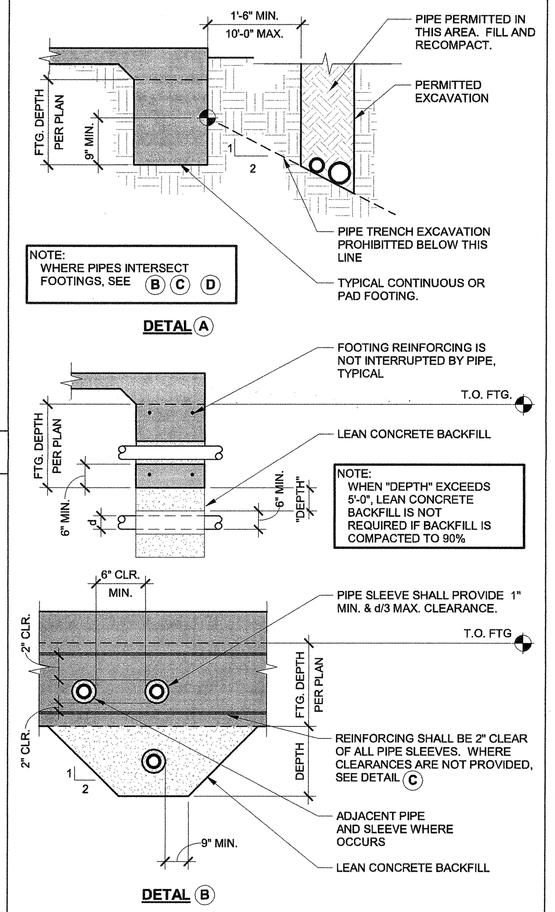
NOTE: VERIFY EXISTING GRADE, FINISHED FLOOR AND FINAL GRADE ELEVATIONS WITH CIVIL AND/OR FOUNDATION PLANS. VERIFY GEOTECHNICAL RECOMMENDATIONS WITH REPORT NUMBER LISTED IN SHEET SPECIFICATIONS.

SOIL PREPARATION AT FOUNDATIONS & FLOOR SLABS — N.T.S. 11



NOTE: WAIT 24 HOURS MINIMUM BETWEEN ADJACENT POURS.

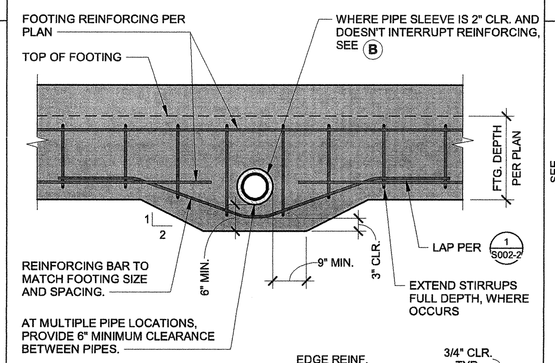
SLAB-ON-GRADE POUR — N.T.S. 17



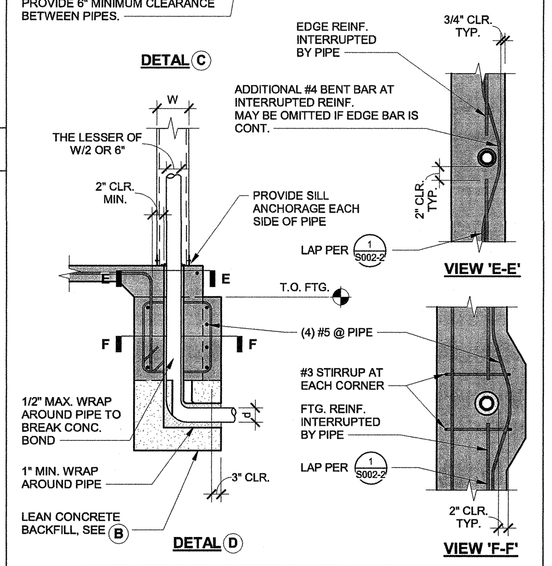
NOTE: WHERE PIPES INTERSECT FOOTINGS, SEE (B) (C) (D)

DETAIL (A)

DETAIL (B)



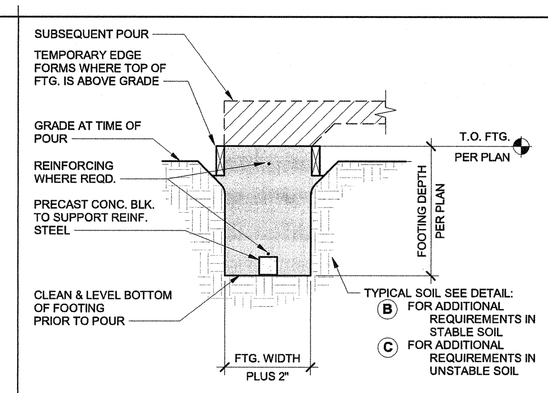
DETAIL (C)



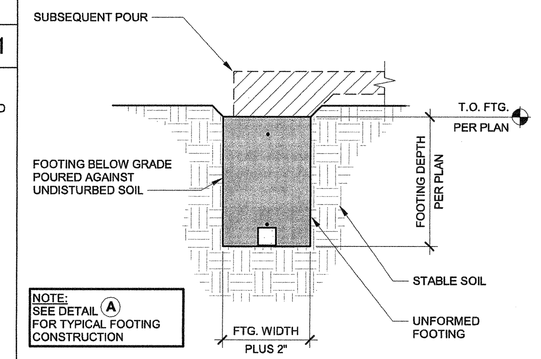
DETAIL (D)

NOTES: PIPE SHOWN, CONDUIT SIM. DO NOT LOCATE VERT. PIPE ADJACENT TO HOLDOWN ANCHORS (18" MIN.).

PIPES AT FOOTINGS — N.T.S. 15

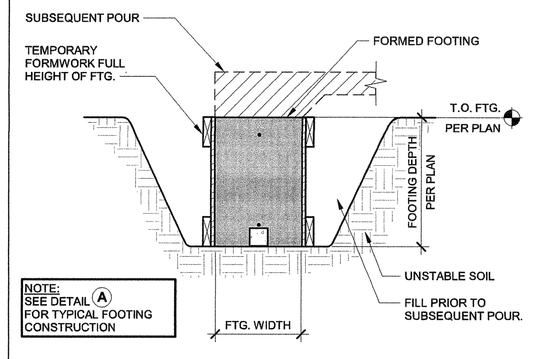


DETAIL (A)



NOTE: SEE DETAIL (A) FOR TYPICAL FOOTING CONSTRUCTION

DETAIL (B)

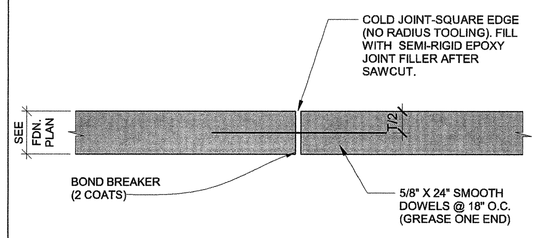


NOTE: SEE DETAIL (A) FOR TYPICAL FOOTING CONSTRUCTION

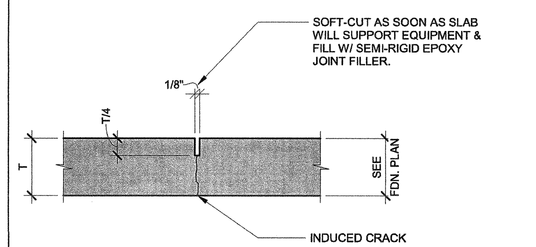
DETAIL (C)

NOTES:
1. ALL FOOTINGS SHALL BE PLACED PER THE TYPICAL REQUIREMENTS OF DETAIL (A)
2. FOOTINGS MAY BE POURED DIRECTLY INTO NEAT EXCAVATIONS PER DETAIL (B) WHERE SOIL IS CONSIDERED STABLE AS DETERMINED BY THE SOIL ENGINEER.
3. PROVIDE FORMWORK PER DETAIL (C) WHERE SOIL IS CONSIDERED UNSTABLE AS DETERMINED BY THE SOIL ENGINEER.
4. STAKES ARE NOT PERMITTED WITHIN THE FOOTING SECTION.
5. SEE THE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

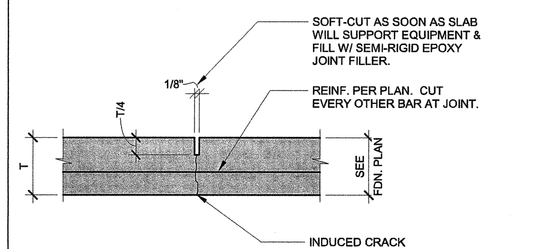
FOUNDATION FORMWORK — N.T.S. 8



(A) TYP. CONSTRUCTION JOINT



(B) TYP. CONTROL JOINT (w/o REINF.)

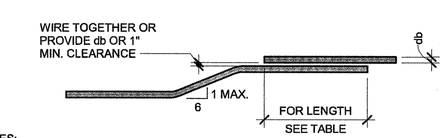


(C) TYP. CONTROL JOINT (w/ REINF.)

TYP. CONCRETE JOINTS — N.T.S. 2

CONCRETE REINFORCING BAR SPLICE LENGTH - GRADE 60 OR LESS										
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18
f'c = 3,000 PSI	22"	29"	36"	43"	62"	72"	81"	91"	101"	NP	NP
f'c = 4,000 PSI	20"	25"	31"	38"	55"	62"	70"	79"	87"	NP	NP

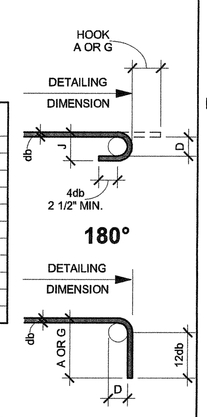
* NP: NOT PERMITTED



NOTES:
1. SPLICE LENGTHS ARE GIVEN FOR CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH LISTED AT 28 DAYS, BARS WITH A MIN. CLEAR COVER OF 1 BAR DIAMETER AND BARS WITH A MIN. CLEAR SPACING OF 2 BAR DIAMETERS.
2. FOR EPOXY COATED REBAR INCREASE SPLICE LENGTH BY 50 PERCENT.
3. FOR HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW SPLICE LENGTH INCREASE SPLICE LENGTH BY 30 PERCENT.
4. SPLICE LENGTHS ARE BASED ON CLASS B SPLICE REQUIREMENTS. CLASS A SPLICES AS DEFINED IN THE ACI 318 MAY BE REDUCED BY 30 PERCENT.

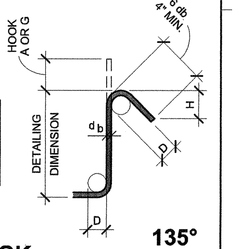
REINF. BAR SPLICE FOR CONC. — N.T.S. 1

BAR SIZE "db"	D	DIMENSIONS OF STANDARD HOOKS ALL GRADES			
		180°		90°	
		A or G	J	A or G	
#3	2 1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3 3/4"	7"	5"	10"	
#6	4 1/2"	8"	6"	1'-0"	
#7	5 1/4"	10"	7"	1'-2"	
#8	6"	11"	8"	1'-4"	
#9	9 1/2"	1'-3"	11 3/4"	1'7"	
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"	
#11	12"	1'-7"	1'-2 3/4"	2'-0"	



STANDARD HOOK

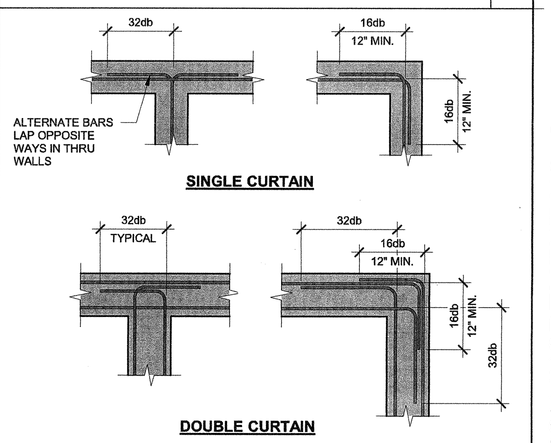
BAR SIZE	D "db"	135° SEISMIC HOOK	
		A or G	APPROX. H
#3	1 1/2"	5"	3 3/4"
#4	2"	5 1/2"	4"
#5	2 1/2"	6"	4 1/4"



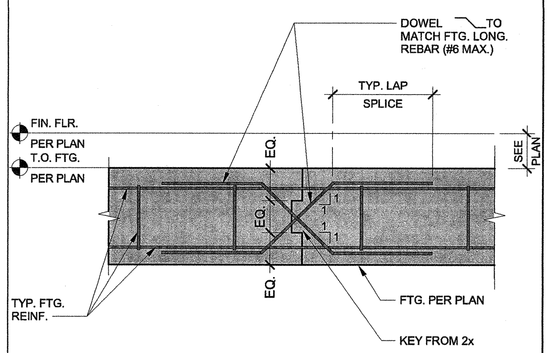
STIRRUP w/ HOOK

NOTES:
1. 135-DEG COLUMN TIE HOOKS MAY NOT BE BENT TO LESS DIAMETER OF COLUMN VERTICAL BAR ENCLOSED IN HOOK.
2. INSIDE DIAMETER OF BENDS IN WELDED WIRE FABRIC, PLAIN OR DEFORMED, FOR STIRRUPS AND TIES SHALL BE AT LEAST FOUR WIRE DIAMETERS FOR WIRE LARGER THAN D6 OR W6 AND TWO WIRE DIAMETERS FOR ALL OTHER WIRES. BENDS WITH INSIDE DIAMETER OF LESS THAN EIGHT WIRE DIAMETER SHALL BE LESS THAN FOUR DIAMETERS FROM THE NEAREST WELD INTERSECTION.

HOOK AND STIRRUP — N.T.S. 3



REINF. @ FOOTING INTERSECTION — N.T.S. 4



FOOTING CONSTRUCTION JT. — N.T.S. 5

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DATE: 21 DEC 2018

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STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
TYPICAL DETAILS - FOUNDATION

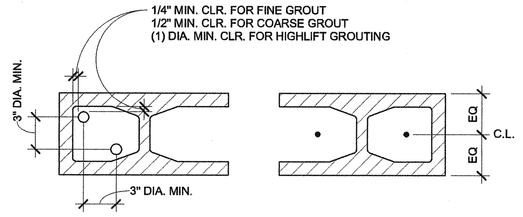
PROJECT NO.
18-10748

DRAWING
S002-2

PLOT DATE: 12/7/2018 4:24:22 PM

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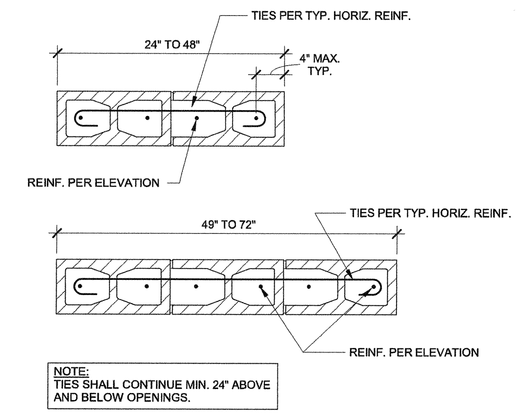
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CONDUIT/PIPES **SINGLE LAYER**

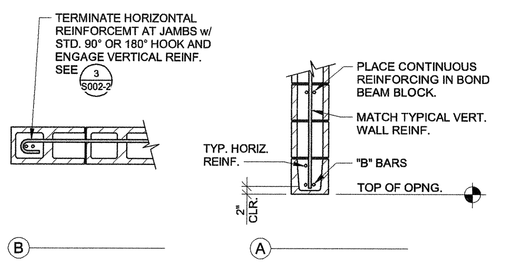
NOTE:
1. DO NOT LOCATE CONDUIT OR PIPES IN CELLS w/ REINFORCING.
2. TOTAL COMBINED AREA OF CONDUIT MAY NOT DIPLACE MORE THAN 4% OF THE CELL AREA. FOR COLUMNS OR PILASTERS, NO MORE THAN 2% OF NET CROSS SECTION AREA.
3. DO NOT EMBED ALUMINUM CONDUIT OR ACCESORIES IN MASONRY, GROUT OR MOTAR UNLESS EFFECTIVELY COATED OR COVERED TO PROVENT CHEMICAL REACTIONS BETWEEN ALUMINUM AND CEMENT OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
4. PIPES SHALL NOT BE EMBEDDED IN MASONRY WHEN: CONTAINING LIQUID, GAS, OR VAPORS AT TEMPERATURES HIGHER THAN 150 DEG F, UNDER PRESSURE IN EXCESS OF 55 PSI, OR CONTAINING WATER OR OTHER LIQUIDS SUBJECT TO FREEZING.

REINF. LOCATION N.T.S. 11



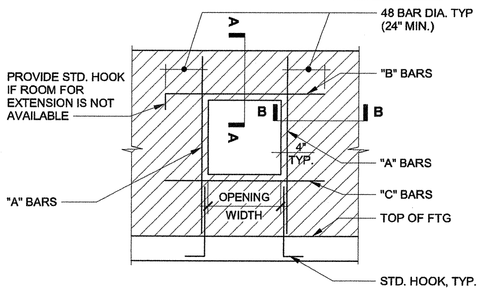
NOTE:
TIES SHALL CONTINUE MIN. 24" ABOVE AND BELOW OPENINGS.

WALL PIER REINFORCING N.T.S. 12



NOTES:
1. TYPICAL HORIZONTAL REINFORCING SHOWN AT BLOCK ABOVE HEADER ALTHOUGH IN SOME CASES IT MAY BE LOCATED IN BLOCK ABOVE DEPENDING ON HORIZONTAL BAR LAYOUT.
2. FOR OPENING WIDTHS OF 4'-0" OR SMALLER, "B" BARS MAY BE PLACED IN NOTCH OF UPRIGHT BOND BEAM BLOCK (I.E. AT 5 1/2"+ CLEARANCE FROM TOP OF OPENING) AND ANY CONTINUOUS BARS LOCATED IN THIS POSITION MAY BE COUNTED AS APPLYING TO MIN. HEAD REINFORCEMENT

OPENING WIDTH	"A" BARS	"B" BARS	"C" BARS
2'-0" OR LESS	1 - #5	1 - #5	NONE
2'-1" TO 4'-0"	2 - #5	1 - #5	1 - #5
OVER 4'-0"	2 - #5	2 - #5	1 - #5

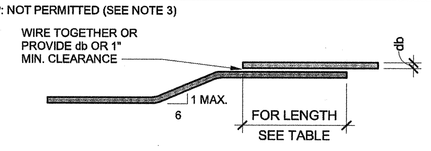


NOTE:
REINFORCMENT SHOWN IS TYPICAL REINFORCMENT REQUIRED FOR ALL OPENINGS UNLESS DIFFERENT REINFORCEMENT IS SHOWN ON SPECIFIC WALL ELEVATIONS.

REINF. @ BLK. WALL OPNG. N.T.S. 5

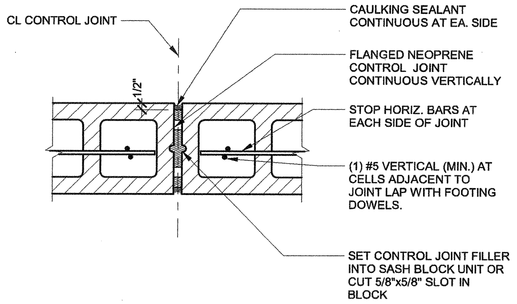
CONCRETE MASONRY UNITS											
REINFORCING BAR SPLICE LENGTH - GRADE 60 OR LESS											
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18
f'm = 2,000 PSI	27"	36"	45"	54"	63"	72"	NP	NP	NP	NP	NP

* NP: NOT PERMITTED (SEE NOTE 3)



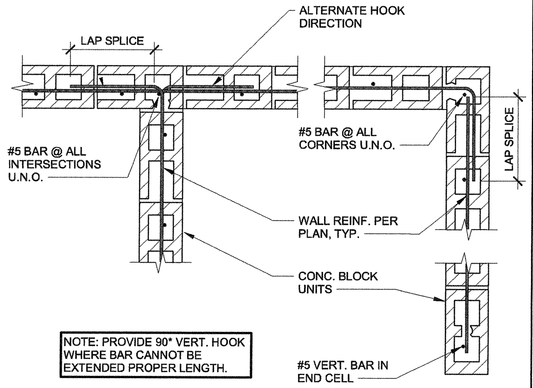
NOTES:
1. SPLICE LENGTHS ARE GIVEN FOR CMU WITH A MINIMUM COMPRESSIVE STRENGTH LISTED AT 28 DAYS.
2. FOR EPOXY COATED REBAR INCREASE SPLICE LENGTH BY 20 PERCENT.
3. REINFORCING LARGER THAN NO. 9 SHALL BE SPLICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH ACI 530 / ASCE 5 / TMS 402 SECTION 2.1.10.7.3.
4. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED FARTHER APART THAN THE LESSOR OF ONE-FIFTH THE REQUIRED LENGTH OR 8".
5. STAGGER ADJACENT SPLICES AT LEAST 24 BAR DIAMETERS.

REINF. BAR SPLICE FOR MASONRY N.T.S. 1



NOTES:
1. SEE EXTERIOR ELEVATIONS AND FLOOR PLAN FOR LOCATION OF JOINTS.
2. HORIZ. REINF. AT ROOF LEDGER LINES, CHORD BARS, AND LINTEL REINFORCEMENT SHALL BE CONTINUOUS ACROSS JOINT.

CMU BLOCK WALL EXPANSION JOINT N.T.S. 2



NOTE: PROVIDE 90° VERT. HOOK WHERE BAR CANNOT BE EXTENDED PROPER LENGTH.

CONC. BLOCK CORNER N.T.S. 3

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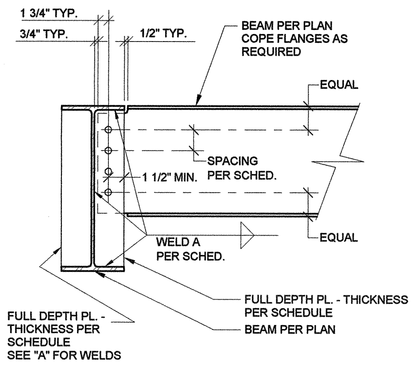
STADIUM MODERNIZATION INCREMENT NO. 2
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TYPICAL DETAILS - MASONRY

PROJECT NO.
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(B) WF BEAM AT WF BEAM, EQUAL OR SHALLOWER DEPTH

CONNECTION SCHEDULE				
BEAM SIZE	PLATE THICKNESS	WELD SIZE	BOLTS	
		A	NO. & SIZE *	SPACING
W6x	3/8	5/16	(2)-3/4" DIA.	2 1/2"
W8x, C8x	3/8	5/16	(2)-3/4" DIA.	3"
W10x	3/8	5/16	(2)-3/4" DIA.	3"
W12x	3/8	5/16	(3)-3/4" DIA.	3"
W14x	3/8	5/16	(3)-3/4" DIA.	3"
W16x	3/8	5/16	(4)-3/4" DIA.	3"

NOTES:
- FOR SINGLE ROW (UNLESS NOTED OTHERWISE)
- ALL BOLTS SHALL BE A325N (U.N.O.)
- USE ASTM A36 PLATE

CONNECTION SCHEDULE/TYP. BEAM TO BEAM CONNECTIONS N.T.S. 17

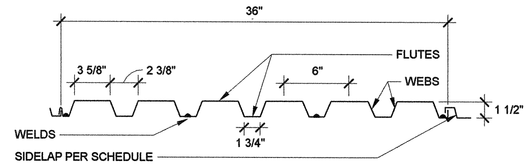
ROOF DECK						
DECK			ATTACHMENT			
MARK	PROFILE	GAGE	⊥ TO DECK	∥ TO DECK	SIDE LAPS	REMARKS
B1	ASC DGB-36	20	1/2" EFFECTIVE WELD (36/4)	1/2" EFFECTIVE WELD @ 24"o.c.	DGB @ 24"o.c.	COMPLY W/ IAPMO UES REPORT ES-0161 (ISSUED 6/29/2018)

NOTES:
1. WHEREVER POSSIBLE, DECK LAYOUTS SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH TO CONTINUOUS SPAN AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERP. TO THE DECK SPAN, EXCEPT AT OPENINGS OR BUILDING EDGES WHERE DECKS MAY BE CANTILEVERED.
2. DECK SHALL HAVE A MINIMUM OF 2" BEARING AT ALL SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 2" AT ALL MEMBERS PARALLEL TO DECK SPAN. AT ENDS OF DIAPHRAGM EDGES, DECK SHALL BEAR FULL WIDTH OF BEARING MEMBERS AS SHOWN IN DETAILS. SUPPORT PLATES AND CONN. SHALL BE PROVIDED BY DECKING CONTRACTOR WHERE DETAIL AS SHOWN IS NOT ACHIEVED.
3. WHERE TWO ADJACENT DECK SHEETS ARE SUPPORTED BY ONE FRAMING MEMBER, EACH SHEET SHALL INDIVIDUALLY SATISFY THE REQUIREMENTS OF NOTE 2 AND OF THE ATTACHMENT SCHEDULE.
4. DO NOT SUSPEND PIPING, MAIN LINE CONDUITS OR OTHER UTILITIES FROM METAL DECK ALONE. SUSPENDED T-BAR CEILING WITH LIGHT FIXTURES AND SOFFIT FRAMING ARE ACCEPTABLE
5. DECK ATTACHMENTS TO STRUCTURAL MEMBERS, AS SCHEDULED, INSTALL WELDS PER MANUFACTURERS REQUIREMENTS. USE WELDS AS FOLLOWS:

   A. SPOT PUDDLE WELDS FOR FIELD ASSEMBLY OF STEEL DECKING MUST HAVE A MINIMUM FUSION AREA MEASURING 1/2" IN DIAMETER OR 3/8" WIDE BY 1" LONG

   B. SEAM WELDS MUST BE A MINIMUM OF 1-1/2" LONG

ROOF DECK SCHEDULE N.T.S. 2

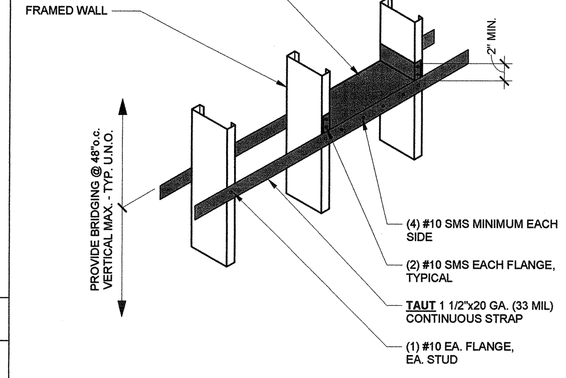


DECK PROPERTIES				
TYPE	GAGE	I (IN⁴)	+S (IN³)	-S (IN³)
PLB-36	20	0.240	0.233	0.246

NOTES:
1. ASTM A 653 SS GRADE 50 WITH G60 GALVANIZED FINISH. 50,000 PSI YIELD STRENGTH.

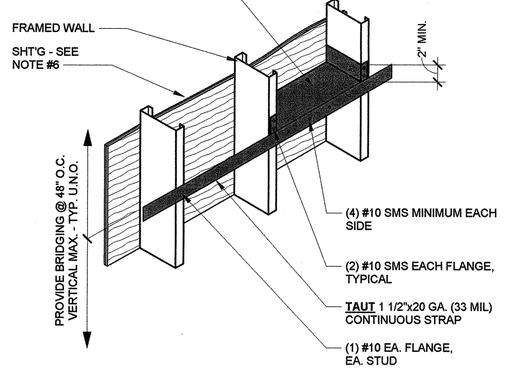
ASC DGB-36

TRACK BLOCK PIECE TO MATCH WALL STUD CLIP FLANGE & BEND - INSTALL 12'-0"o.c. MAX.-ALL STRAPS SHALL BE CONNECTDED TO AT LEAST (1) BLOCK-PROVIDE ADD'L BLOCK EA. SIDE AT DISCONTINUOUS STRAP

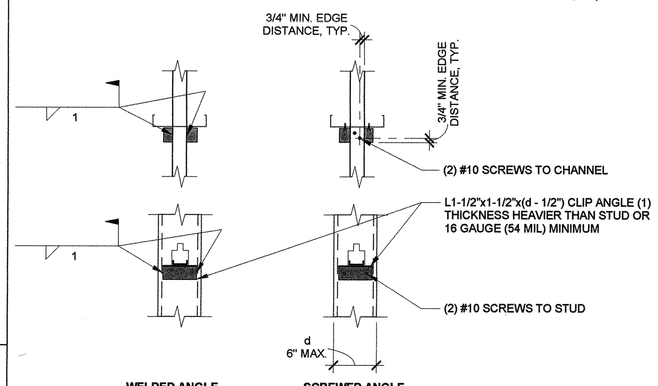


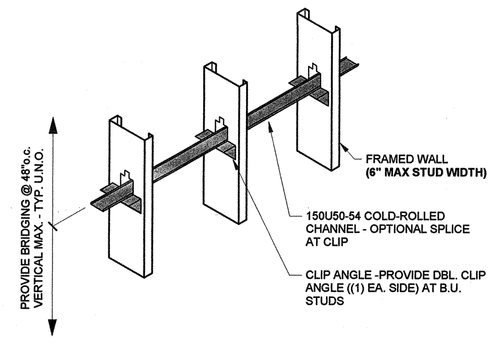
1 TYPE 1 BRIDGING - DOUBLE FLAT STRAP WITH BLOCKING

TRACK BLOCK PIECE TO MATCH WALL STUD CLIP FLANGE & BEND - INSTALL 12'-0"o.c. MAX.-ALL STRAPS SHALL BE CONNECTDED TO AT LEAST (1) BLOCK-PROVIDE ADD'L BLOCK EA. SIDE AT DISCONTINUOUS STRAP



3 TYPE 3 BRIDGING - SHEATHING WITH SINGLE FLAT STRAP
(NOT ALLOWED AT BEARING WALLS)

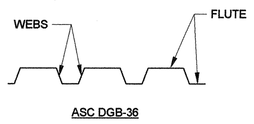




2 TYPE 2 BRIDGING - COLD-ROLLED CHANNEL WITH CLIP ANGLE

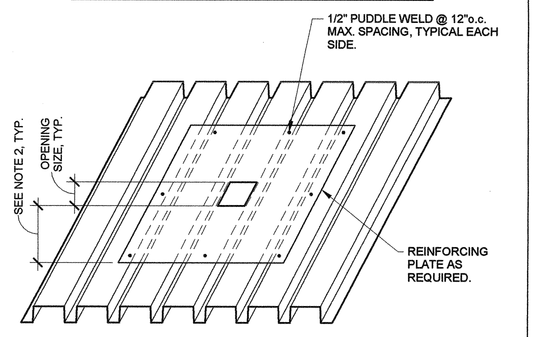
NOTES:
1. PROVIDE BRIDGING ON ALL WALL STUDS EXCEPT NON-BEARING WALLS WITH QUALIFIED SHEATHING PER NOTE #6 ON BOTH SIDES OF WALL.
2. INSTALL ALL BRIDGING PRIOR TO INSTALLATION OF SUPPORTED FRAMING.
3. TYPE 2 BRIDGING NOT ALLOWED ON STUDS GREATER THAN 6" DEEP.
4. QUALIFIED SHEATHING SHALL BE GWB, GYPSHEATHING, PLYWOOD, OR OSB, ONLY.

STUD BRIDGING N.T.S. 20



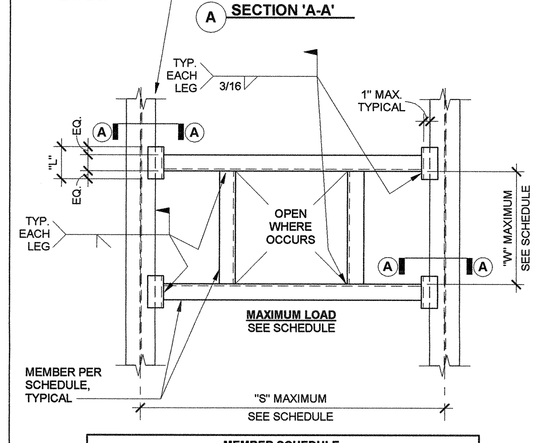
ASC DGB-36

PENETRATION SCHEDULE	
OPENING SIZE	REINFORCING PLATE
UP TO 6"	NOT REQUIRED IF UP TO 1 WEB IS CUT 18 GA. IF 2 WEBS ARE CUT
6" TO 8"	18 GA.
8" TO 12"	16 GA.



NOTES:
1. DETAIL APPLIES TO ROOF DECK PENETRATIONS ONLY & OPENINGS UP TO 12".
2. EXTEND PLATE 12" MINIMUM BEYOND EDGE OF OPENING, TYPICAL ALL SIDES.

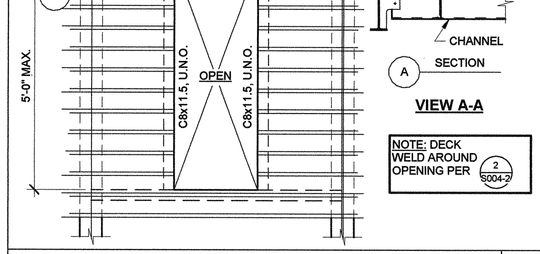
PLATE REINFORCED DECK OPENING N.T.S. 14



MEMBER SCHEDULE				
SPACING "S"	WIDTH "W"	MEMBER SIZE	LENGTH "L"	MAXIMUM LOAD
10'-0"	6'-0"	LLV6x4x5/16	0'-6"	600 LBS
12'-0"	8'-0"	L6x6x1/2	1'-0"	2,000 LBS

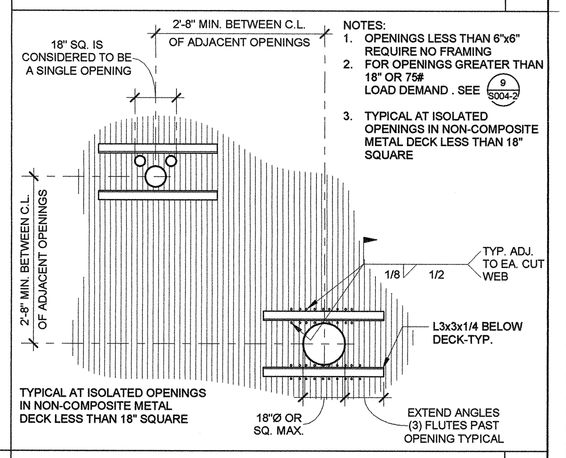
NOTES:
1. FOR HOLES 12"x12" OR SMALLER SEE (14/S004-2)
2. SUPPORTED EQUIPMENT SHALL NOT EXCEED THE MAXIMUM LOAD SPECIFIED.
3. SUPPORTED EQUIPMENT MAY BE PLACED AT ANY LOCATION BETWEEN ROOF MEMBERS. WHERE EQUIPMENT IS POSITIONED ABOVE ROOF MEMBER, PROVIDE FRAMING AS SHOWN ON EACH SIDE. CLIP SUPPORT ANGLES AT CENTERLINE OF BEAM WHERE REQUIRED.

FRAMING AT ROOF DECK OPENING N.T.S. 9



NOTE: DECK WELD AROUND OPENING PER (2/S004-2)

METAL DECK OPENING N.T.S. 3

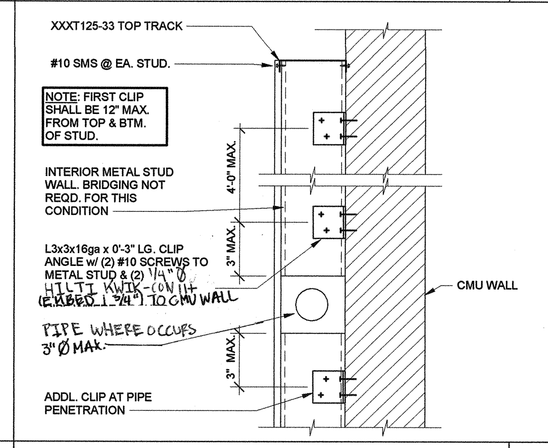


NOTES:
1. OPENINGS LESS THAN 6"x6" REQUIRE NO FRAMING
2. FOR OPENINGS GREATER THAN 18" OR 75# LOAD DEMAND . SEE (9/S004-2)
3. TYPICAL AT ISOLATED OPENINGS IN NON-COMPOSITE METAL DECK LESS THAN 18" SQUARE

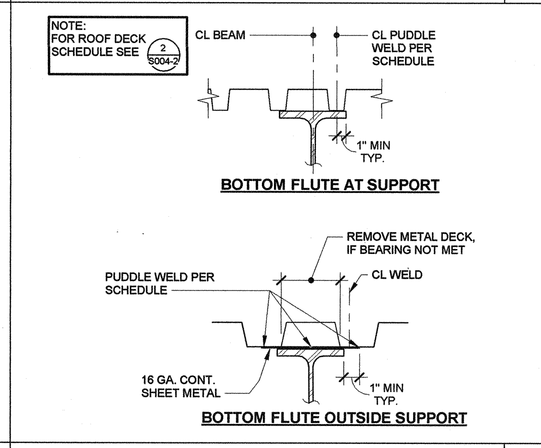
METAL DECK OPENING N.T.S. 4

INTERIOR

METAL STUD AT SILL N.T.S. 15



METAL STUD TO CMU WALL N.T.S. 10



STEEL DECK TO BEAM (UNTOPPED) N.T.S. 5

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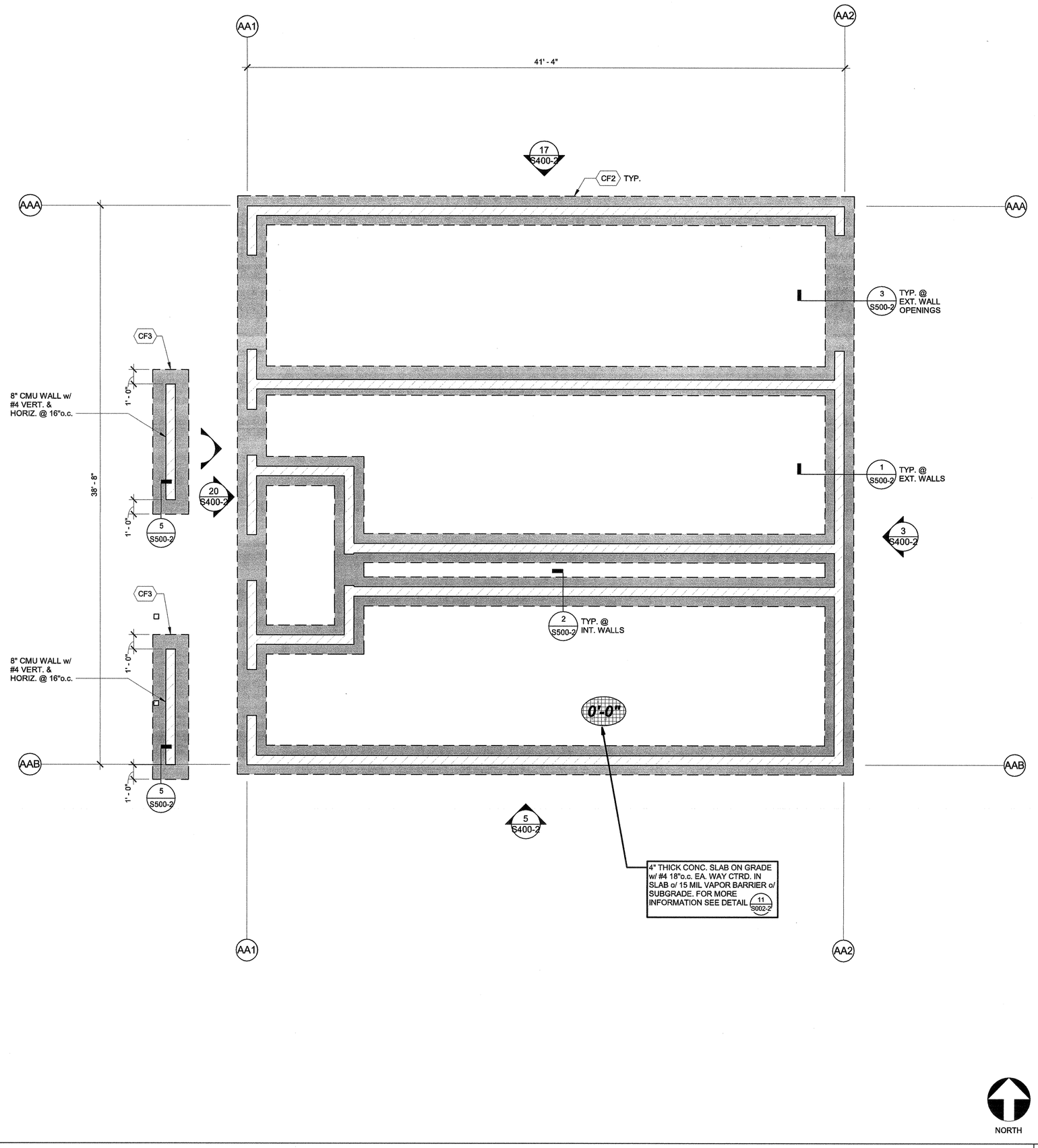
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TYPICAL DETAILS - STEEL

PROJECT NO.
18-10748

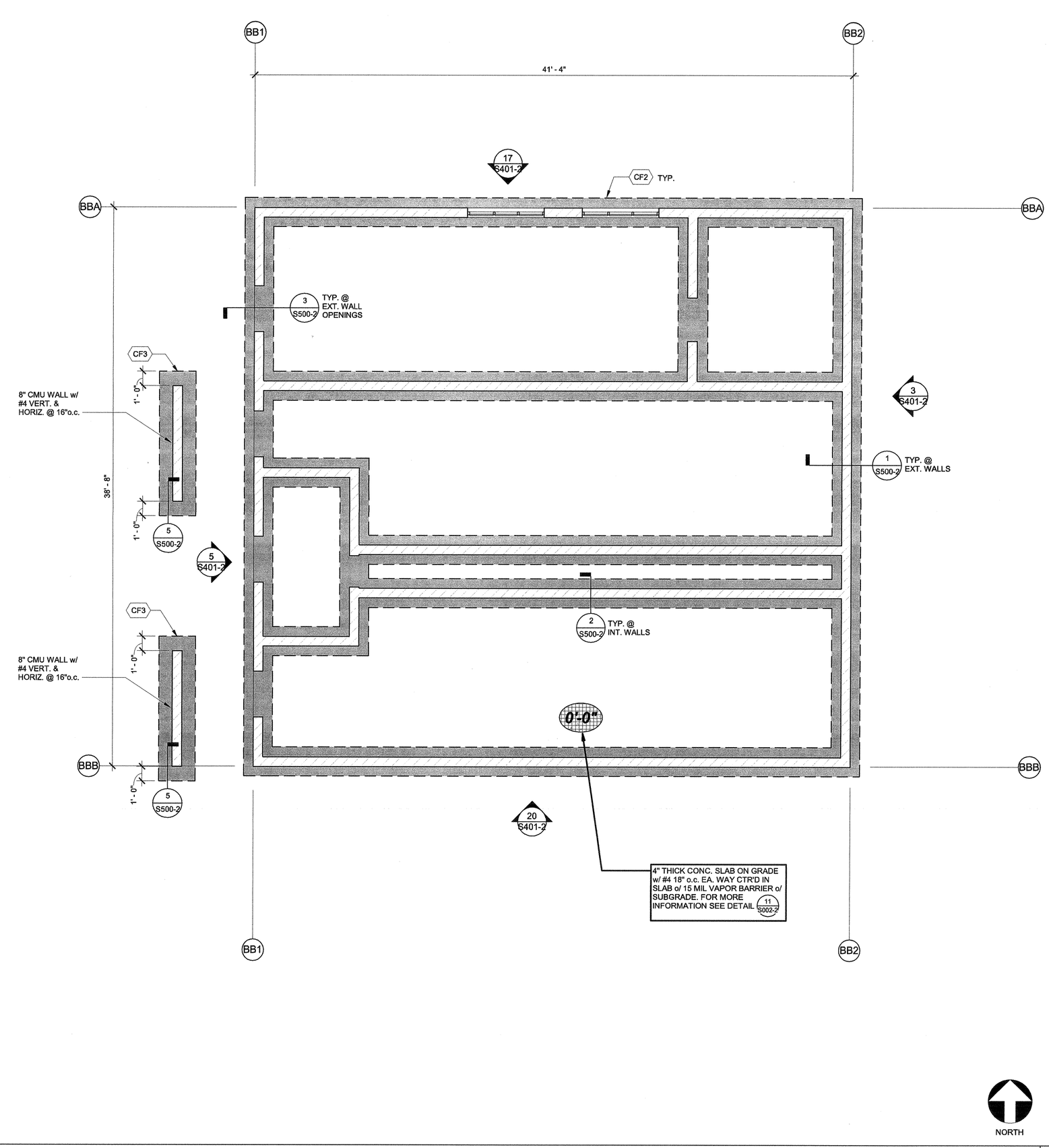
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S004-2

PLOT DATE: 12/8/2018 5:02:12 PM

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BUILDING 'AA' - RESTROOM FOUNDATION PLAN 1/4" = 1'-0" 19



BUILDING 'BB' - CONCESSION FOUNDATION PLAN 1/4" = 1'-0" 4

FOUNDATION NOTES:

1. SEE TYPICAL DETAILS SHOWN ON THE S0XX SERIES SHEETS SHALL APPLY IN ALL CASES, UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
2. UNCLEAR, CONFLICTING AND/OR MISSING INFORMATION SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.ALL DIMENSIONS ARE TAKEN TO GRIDLINES.
3. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" A.F.F. U.N.O.
4. ALL CONTINUOUS FOOTINGS TO BE TYPE CF2 U.N.O.
5. TOP OF FOOTING (T.O.F.) ELEVATIONS SHALL BE (-) 0'-8" U.N.O.
6. SEE CIVIL PLANS AND OR SITE PLAN FOR LOCATION AND DIMENSIONS OF SIDEWALKS, RAMPS, EXTERIOR SLABS, MOW STRIPS, AND PLANTERS.
7. ALL EXTERIOR CONCRETE SLABS ARE TO BE POURED SEPARATE.
8. SLAB THICKNESS TO BE CONSTANT WHERE SLABS SLOPE TO DRAIN.
9. FOR PIPES/CONDUITS NEAR TO OR INTERSECTION FOUNDATIONS, SEE DETAIL 15 S002-2
10. ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURE PRIOR TO PLACEMENT OF CONCRETE.
11. SEE CIVIL PLAN AND/OR ARCHITECTURAL FOR LOCATION AND DIMENSIONS OF SIDEWALKS, RAMPS, EXTERIOR SITE SLABS, MOW STRIPS AND PLANTERS. FOR SITE STRUCTURES INCLUDING CANOPIES, WALKWAYS SEE ARCHITECTURAL

FOUNDATION SCHEDULE

SYM.	SIZE	REINFORCEMENT
CONTINUOUS FOOTING		
CF1	1'-6" WIDE x 1'-6" THICK CONT.	(3) #5 TOP & BOT. w/ #4 TIES @ 12"o.c.
CF2	2'-0" WIDE x 1'-6" THICK CONT.	(4) #5 TOP & BOT. w/ #4 TIES @ 12"o.c.
CF3	2'-6" WIDE x 1'-6" THICK CONT.	(3) #5 TOP & BOT. w/ #4 TIES @ 12"o.c.

LEGEND:

- (#) GRID BUBBLE AND NUMBER. SEE ARCHITECTURAL DRAWING PACKAGE FOR DETAILED DIMENSIONS OF ALL GRIDS SHOWN.
- (1 / S100-2) DETAIL MARK. SEE REFERENCING DETAIL NUMBER AND SHEET NUMBER FOR ADDITIONAL INFORMATION.
- (CFX) CONTINUOUS FOOTING TAG. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
- CONCRETE FOOTING.
- 8" CMU WALL FOR ADDITIONAL INFORMATION SEE TYPICAL DETAILS AND WALL ELEVATIONS

NOTES, SCHEDULE & LEGEND 5

PLOT DATE: 12/7/2018 4:24:28 PM

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MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
BUILDING 'AA' & 'BB' FOUNDATION PLANS

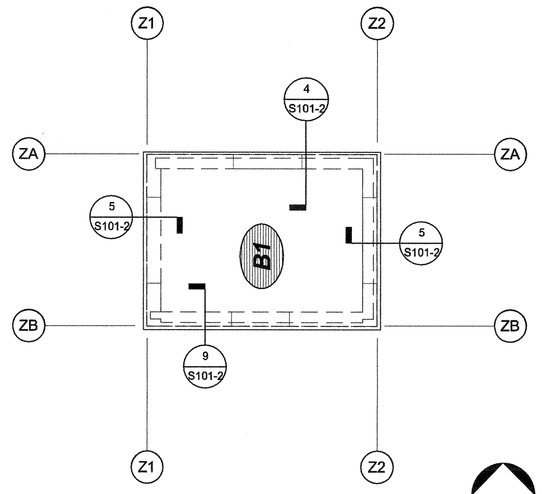
PROJECT NO.
18-10748

DRAWING
S100-2

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ROOF FRAMING NOTES:

1. FOR ROOF FRAMING NOTES SEE **5/S300-2**



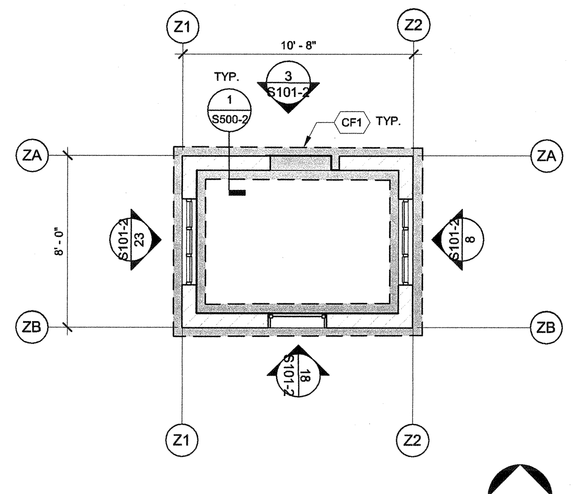
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- (#) GRID BUBBLE AND NUMBER. SEE ARCHITECTURAL DRAWING PACKAGE FOR DETAILED DIMENSIONS OF ALL GRIDS SHOWN.
- (1 / S100-2) DETAIL MARK. SEE REFERENCING DETAIL NUMBER AND SHEET NUMBER FOR ADDITIONAL INFORMATION.
- T.O.W. = 0'-0" — ELEVATION MARK. T.O.W. = TOP OF WALL, T.O.F. = TOP OF FOOTING, T.O.S. = TOP OF STEEL
- 6" CMU WALL BELOW w/ #4 BARS @ 16"o.c. EA. WAY U.N.O., (OVER 8" CMU WALL) @ EXT. FOR ADDITIONAL INFORMATION SEE DETAIL (3 / S600-2)
- 8" CMU WALL BELOW @ INT. FOR ADDITIONAL INFORMATION SEE TYPICAL DETAILS
- W16x31 — BEAM ID
- B1 — STEEL DECK. FOR ADDITIONAL INFORMATION SEE DETAIL (2 / S004-2)

BUILDING 'Z' TICKETBOOTH ROOF FRAMING PLAN — 1/4" = 1'-0" — 12

FOUNDATION NOTES:

1. FOR FOUNDATION NOTES SEE **5/S100-2**



FOUNDATION SCHEDULE		
SYM.	**SIZE**	**REINFORCEMENT**
CONTINUOUS FOOTING		
CF1	1'-6" WIDE x 1'-6" THICK CONT.	(3) #5 TOP & BOT. w/ #4 TIES @ 12"o.c.
CF2	2'-0" WIDE x 1'-6" THICK CONT.	(4) #5 TOP & BOT. w/ #4 TIES @ 12"o.c.
CF3	2'-6" WIDE x 1'-6" THICK CONT.	(3) #5 TOP & BOT. w/ #4 TIES @ 12"o.c.

LEGEND:

- (#) GRID BUBBLE AND NUMBER. SEE ARCHITECTURAL DRAWING PACKAGE FOR DETAILED DIMENSIONS OF ALL GRIDS SHOWN.
- (1 / S100-2) DETAIL MARK. SEE REFERENCING DETAIL NUMBER AND SHEET NUMBER FOR ADDITIONAL INFORMATION.
- (CFX) CONTINUOUS FOOTING TAG. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
- CONCRETE FOOTING.
- 8" CMU WALL FOR ADDITIONAL INFORMATION SEE TYPICAL DETAILS AND WALL ELEVATIONS

BUILDING 'Z' - TICKETBOOTH FOUNDATION PLAN — 1/4" = 1'-0" — 2

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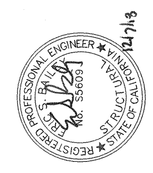
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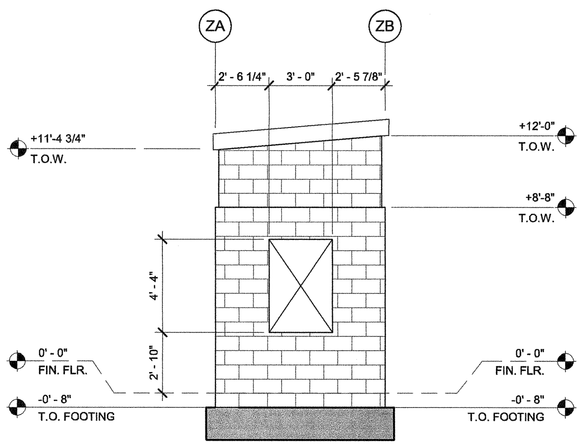
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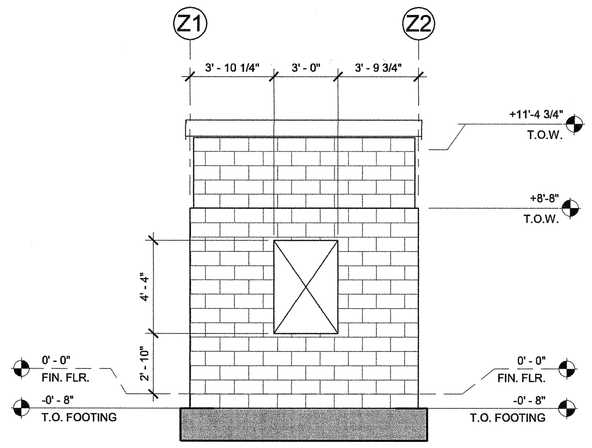




WALL ELEVATION NOTES:

1. SEE NOTES ON **14/S101-2**

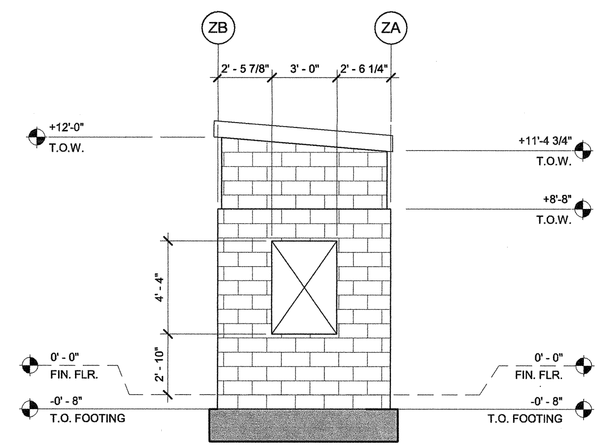
BLDG. 'Z' - TICKETBOOTH WEST ELEVATION — 1/4" = 1'-0" — 23



WALL ELEVATION NOTES:

1. SEE NOTES ON **14/S101-2**

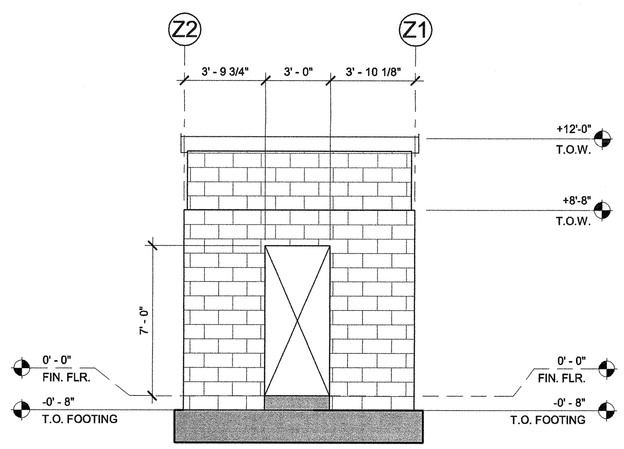
BLDG. 'Z' - TICKETBOOTH SOUTH ELEVATION — 1/4" = 1'-0" — 18



WALL ELEVATION NOTES:

1. SEE NOTES ON **14/S101-2**

BLDG. 'Z' - TICKETBOOTH EAST ELEVATION — N.T.S. — 8



WALL ELEVATION NOTES:

1. SEE NOTES ON **14/S101-2**

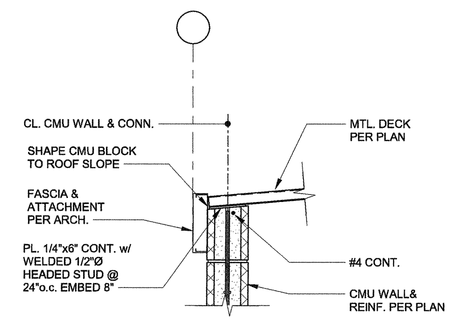
BLDG. 'Z' - TICKETBOOTH NORTH ELEVATION — 1/4" = 1'-0" — 3

WALL ELEVATION NOTES:

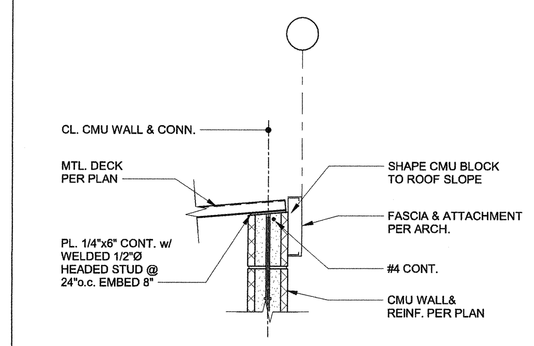
1. SEE GENERAL NOTES ON SHEETS S000-2 THRU S001-2 AND TYPICAL DETAILS ON SHEETS S002-2 THRU S004-2.
2. ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURE PRIOR TO POURING OF MASONRY GROUT.
3. FOR TYPICAL REINFORCING AT CMU WALL OPENINGS SEE (5 / S003-2)
4. FOR WALL LENGTHS LESS THAN 8'-0", SEE PIER REINFORCING PER (12 / S003-2)
5. TYPICAL MASONRY WALL REINFORCEMENT, U.N.O.,

   VERTICAL: #4 @ 16"o.c. (FOR 8" & 6" CMU)
   HORIZONTAL: #4 @ 16"o.c. (FOR 8" & 6" CMU)

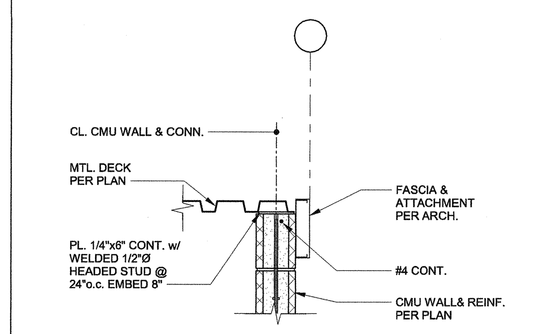
14



ROOF CONN. DETAIL — N.T.S. — 9



ROOF CONN. DETAIL — 1" = 1'-0" — 4



ROOF CONN. DETAIL — N.T.S. — 5

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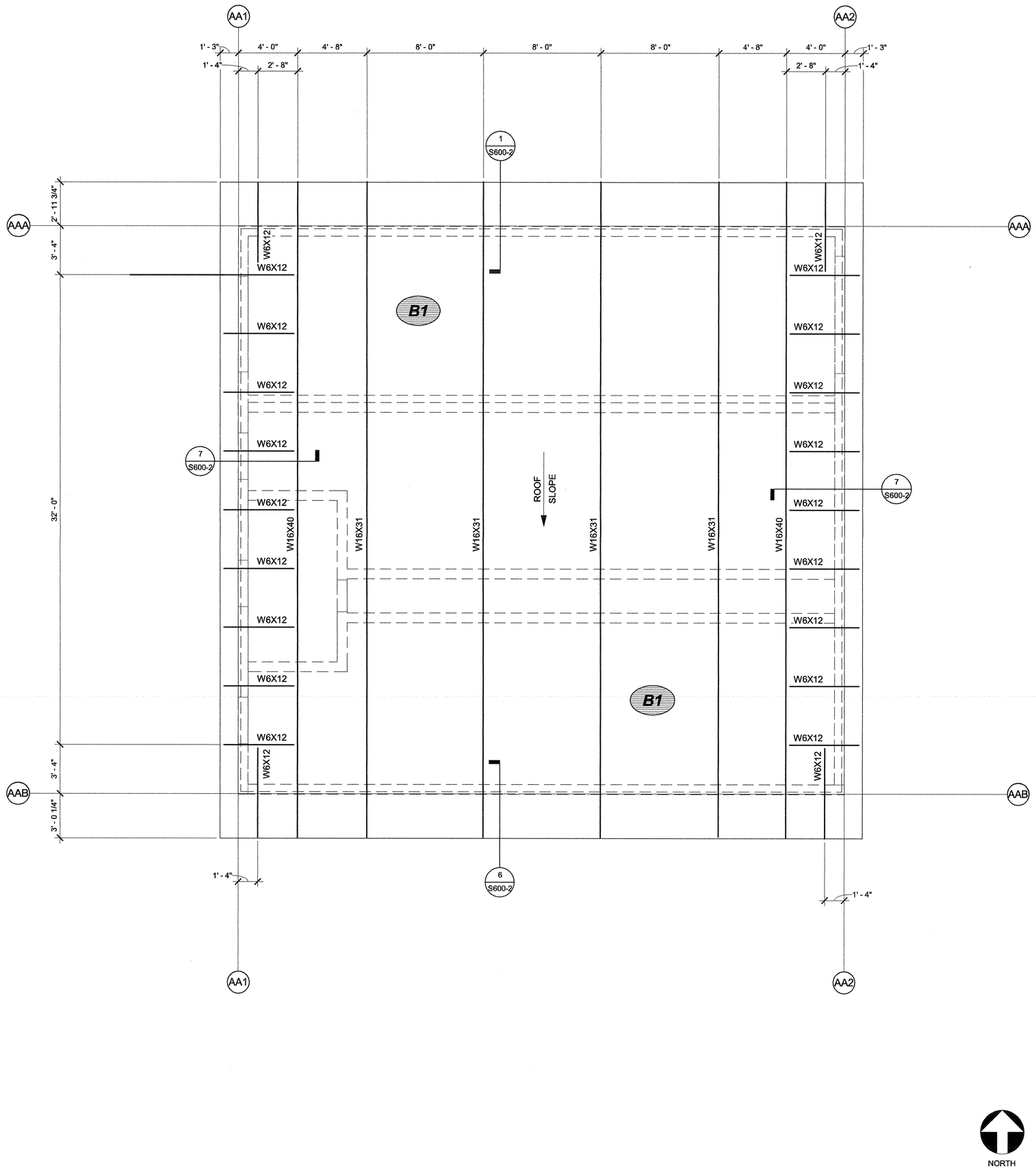
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PROJECT NO.
18-10748

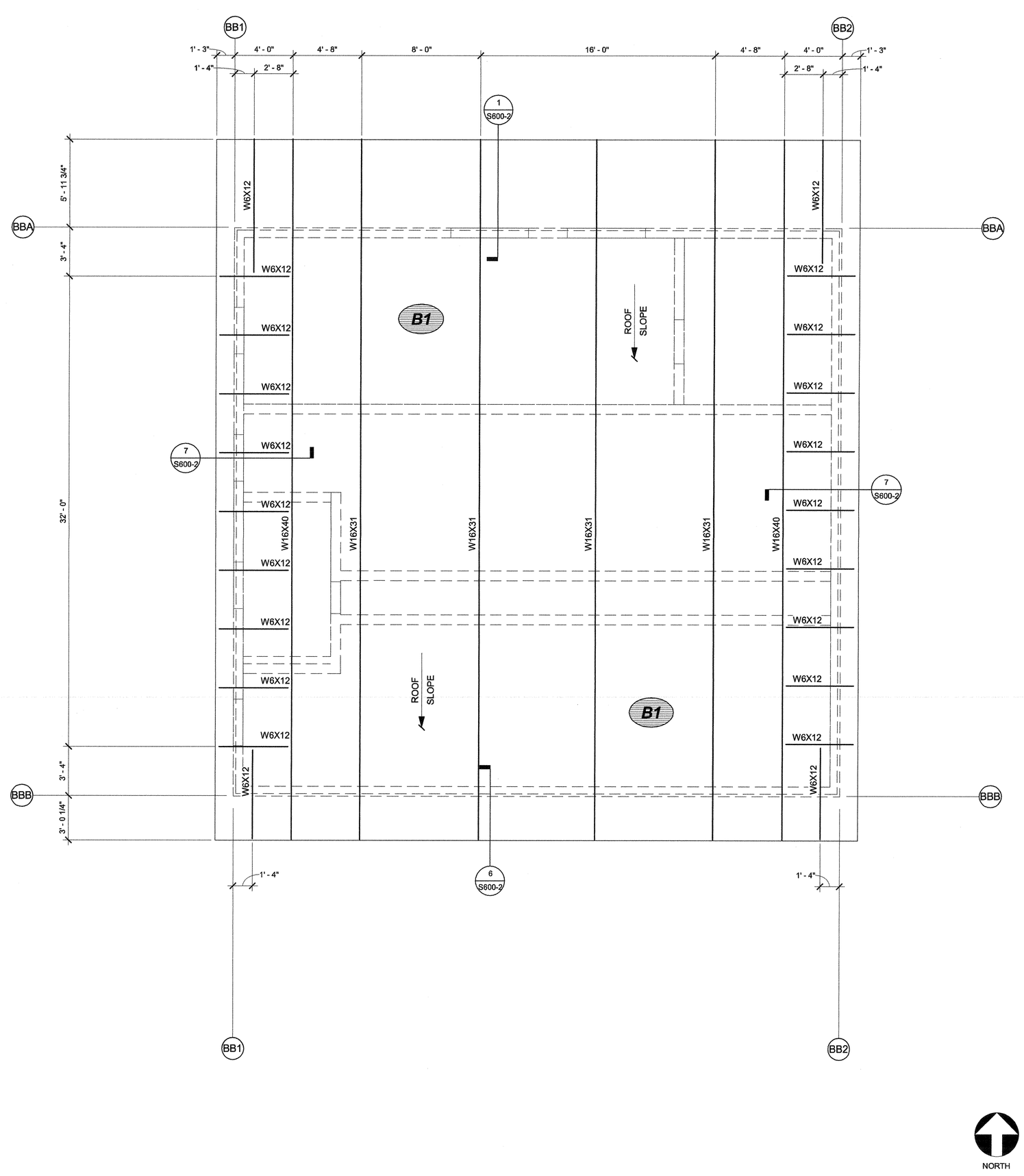
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S101-2

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BUILDING 'AA' - ROOF FRAMING PLAN — 1/4" = 1'-0" — 19



BUILDING 'BB' - ROOF FRAMING PLAN — 1/4" = 1'-0" — 4

ROOF FRAMING NOTES:

1. SEE TYPICAL DETAILS SHOWN ON THE S0XX SERIES SHEETS SHALL APPLY IN ALL CASES, UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. SEE SHEET SPECIFICATIONS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
2. UNCLEAR, CONFLICTING AND/OR MISSING INFORMATION SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.
3. ALL DIMENSIONS ARE TAKEN TO GRIDLINES.
4. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FINISH FLOOR = 0'-0" A.F.F. U.N.O.
5. STEEL MEMBERS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS, U.N.O., AND SHALL FRAME TO CENTERLINE OF COLUMNS OR WORK POINT.
6. SEE ARCHITECTURAL DRAWINGS FOR WALL STUD SIZES AND SPACING, U.N.O.
7. SEE DETAILS FOR TYPICAL DECK TO BEAM CONNECTION CONDITIONS AT ALL STRUCTURAL MEMBERS. ENSURE FLUTE OF METAL DECK LANDS ON BEAM/JOIST. IF DECK FLUTE DOES NOT FULLY LAND ON MEMBERS, SEE DETAIL 5/S004-2
8. DO NOT SUSPEND PIPING, MAIN LINE CONDUITS OR OTHER UTILITIES FROM METAL DECK ALONE. SUSPENDED T-BAR CEILING WITH LIGHT FIXTURES AND SOFFIT FRAMING ARE ACCEPTABLE.
9. SEE ARCHITECTURAL PLANS FOR PLUMBING PENETRATIONS.
10. FOR STEEL BEAM-TO-BEAM CONNECTIONS, SEE DETAIL 17/S004-2
11. BEAMS AT ROOF OPENINGS SHALL BE PLACED 6" FROM EDGE OF OPENING, TYPICAL, U.N.O. FOR THE 6" TYPICAL CONDITIONS, CLOSURE PLATES SHALL BE AS NOTED PER DECK SCHEDULE ON DETAIL 2/S004-2

ROOF DESIGN LOADS

ROOF DEAD LOAD	
STANDING SEAM METAL ROOF	1.5 PSF
UNDERLAYMENT	0.5 PSF
20 GAUGE STEEL "B" DECK	2.7 PSF
BATT INSULATION	3.0 PSF
W16x @ ~ 8'-0"o.c.	3.9 PSF
SUSPENDED CEILING W/ ELECTRICAL	3.0 PSF
SPRINKLERS	1.5 PSF
MECHANICAL	1.5 PSF
PHOTOVOLTAIC PANELS	2.0 PSF
MISCELLANEOUS	1.9 PSF
TOTAL	**21.5 PSF**

ROOF LIVE LOAD	
LIVE LOAD	20.0 PSF REDUCIBLE

LEGEND:

- (#) — GRID BUBBLE AND NUMBER. SEE ARCHITECTURAL DRAWING PACKAGE FOR DETAILED DIMENSIONS OF ALL GRIDS SHOWN.
- 1/S100-2 — DETAIL MARK. SEE REFERENCING DETAIL NUMBER AND SHEET NUMBER FOR ADDITIONAL INFORMATION.
- T.O.W. = 0'-0" — ELEVATION MARK: T.O.W. = TOP OF WALL, T.O.F. = TOP OF FOOTING, T.O.S. = TOP OF STEEL
- 6" CMU WALL BELOW w/ #4 BARS @ 16"o.c. EA. WAY U.N.O., (OVER 8" CMU WALL) @ EXT. FOR ADDITIONAL INFORMATION SEE DETAIL 1/S600-2
- 8" CMU WALL BELOW @ INT. FOR ADDITIONAL INFORMATION SEE TYPICAL DETAILS
- W16x31 — BEAM ID
- B1 — STEEL DECK. FOR ADDITIONAL INFORMATION SEE DETAIL 2/S004-2

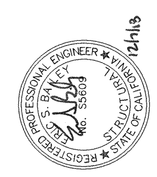
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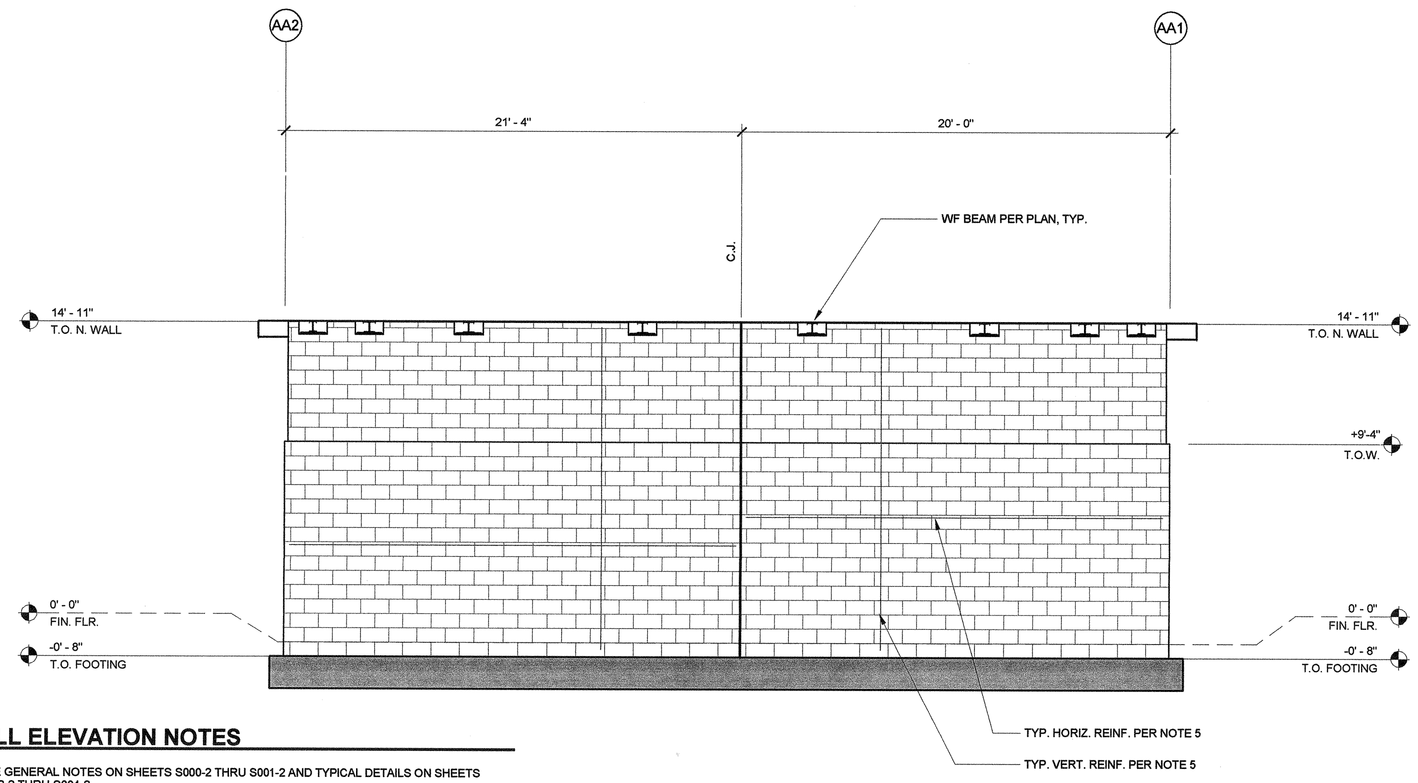
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MADERA, CA

DRAWING TITLE
BUILDING 'AA' & 'BB' ROOF FRAMING PLANS

PROJECT NO.
18-10748

DRAWING
S300-2

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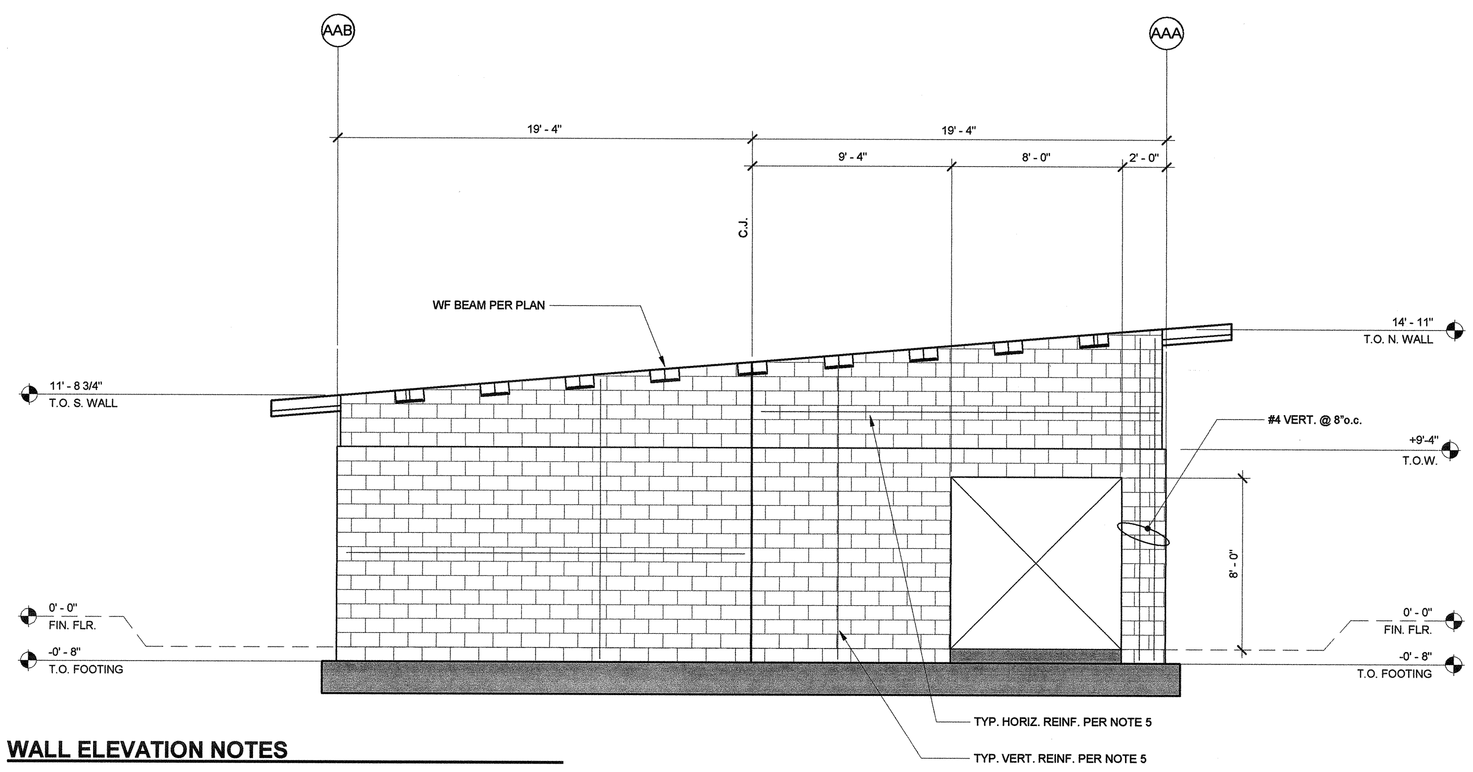


WALL ELEVATION NOTES

1. SEE GENERAL NOTES ON SHEETS S000-2 THRU S001-2 AND TYPICAL DETAILS ON SHEETS S002-2 THRU S004-2.
2. ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURE PRIOR TO POURING OF MASONRY GROUT.
3. FOR TYPICAL REINFORCING AT CMU WALL OPENINGS SEE 5/S003-2
4. FOR WALL LENGTHS LESS THAN 8'-0", SEE PIER REINFORCING PER 12/S003-2
5. TYPICAL MASONRY WALL REINFORCEMENT, U.N.O.,

   VERTICAL: #4 @ 16"o.c. (FOR 8" & 6" CMU)
   HORIZONTAL: #4 @ 16"o.c. (FOR 8" & 6" CMU)

NORTH WALL ELEVATION (LOOKING SOUTH) - LINE AAA — 1/4" = 1'-0" — 17

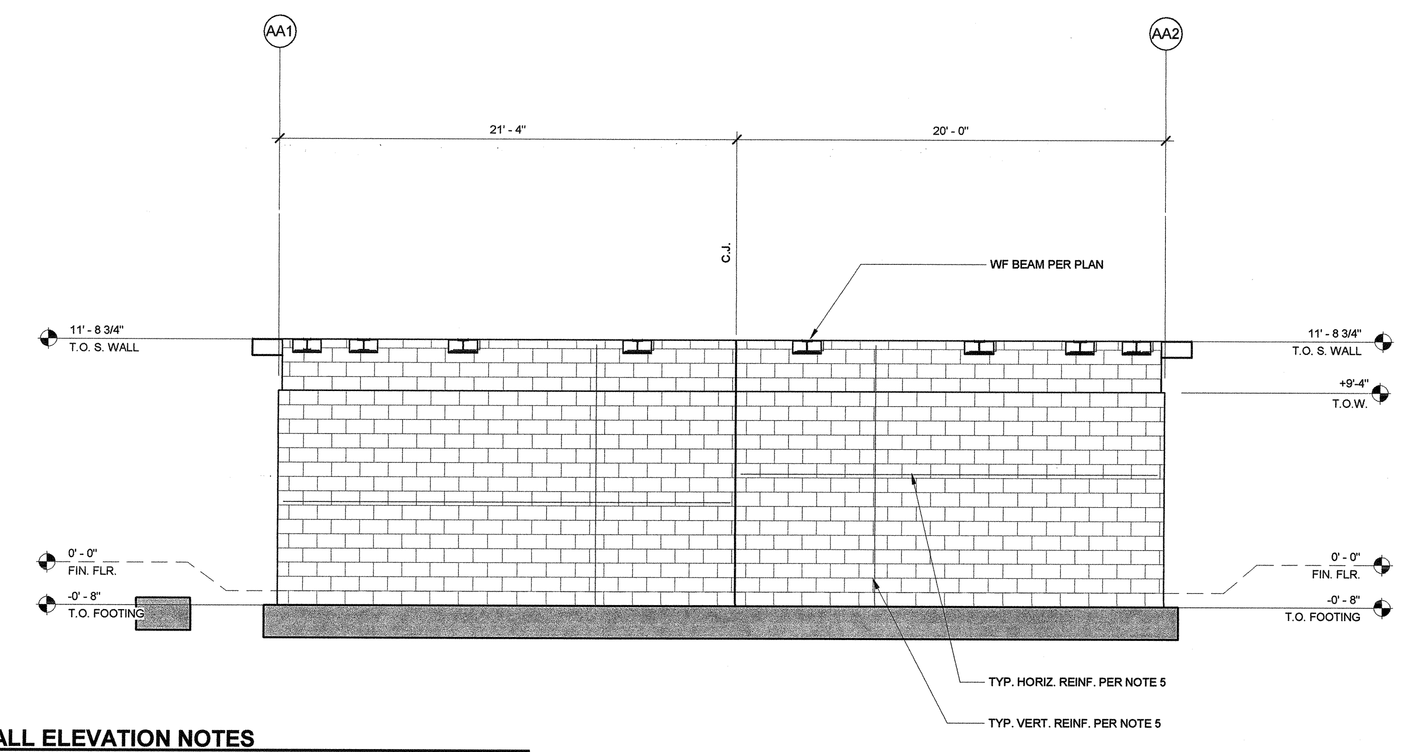


WALL ELEVATION NOTES

1. SEE GENERAL NOTES ON SHEETS S000-2 THRU S001-2 AND TYPICAL DETAILS ON SHEETS S002-2 THRU S004-2.
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EAST WALL ELEVATION (LOOKING WEST) - LINE AA2 — 1/4" = 1'-0" — 3

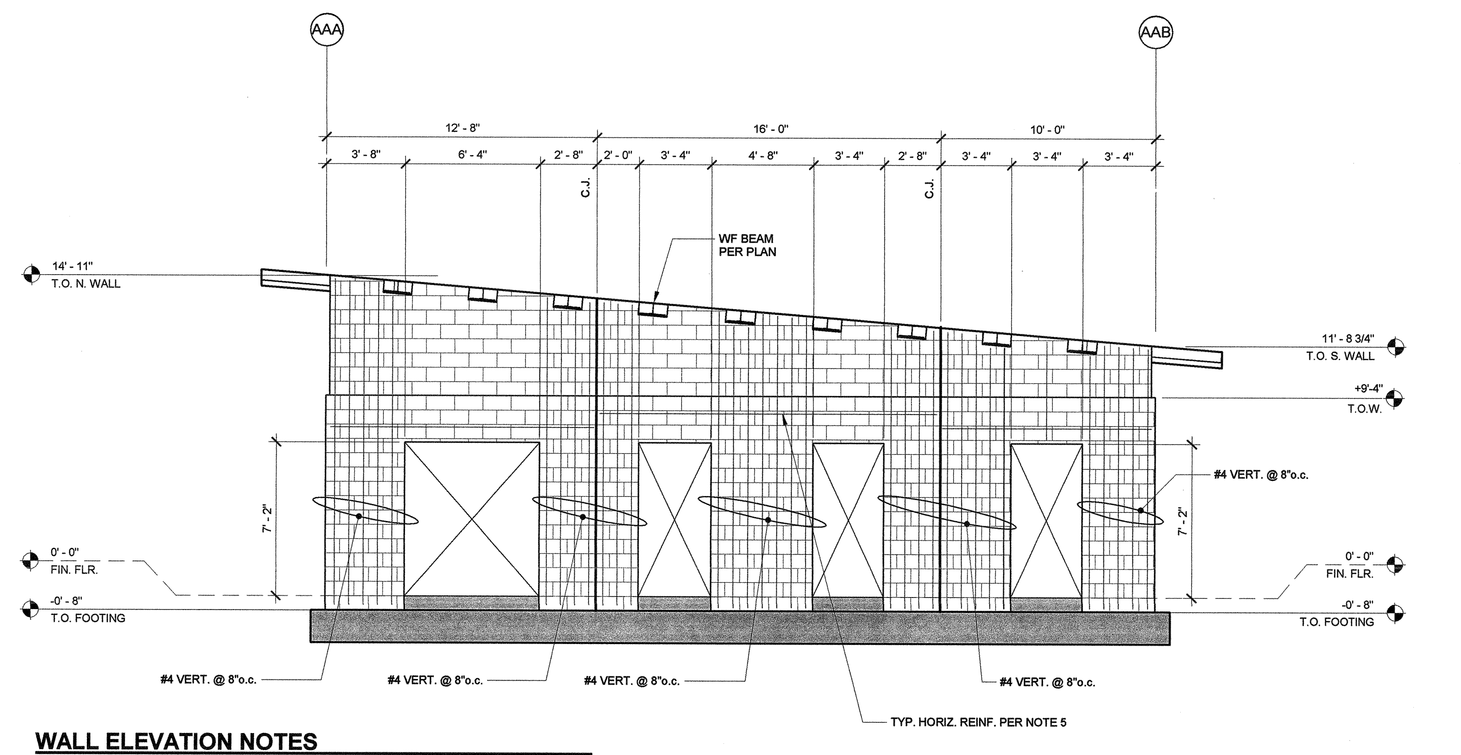


WALL ELEVATION NOTES

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SOUTH WALL ELEVATION (LOOKING NORTH) LINE AAB — 1/4" = 1'-0" — 5



WALL ELEVATION NOTES

1. SEE GENERAL NOTES ON SHEETS S000-2 THRU S001-2 AND TYPICAL DETAILS ON SHEETS S002-2 THRU S004-2.
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WEST WALL ELEVATION (LOOKING EAST) - LINE AA1 — 1/4" = 1'-0" — 20

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STADIUM MODERNIZATION INCREMENT NO. 2
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MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

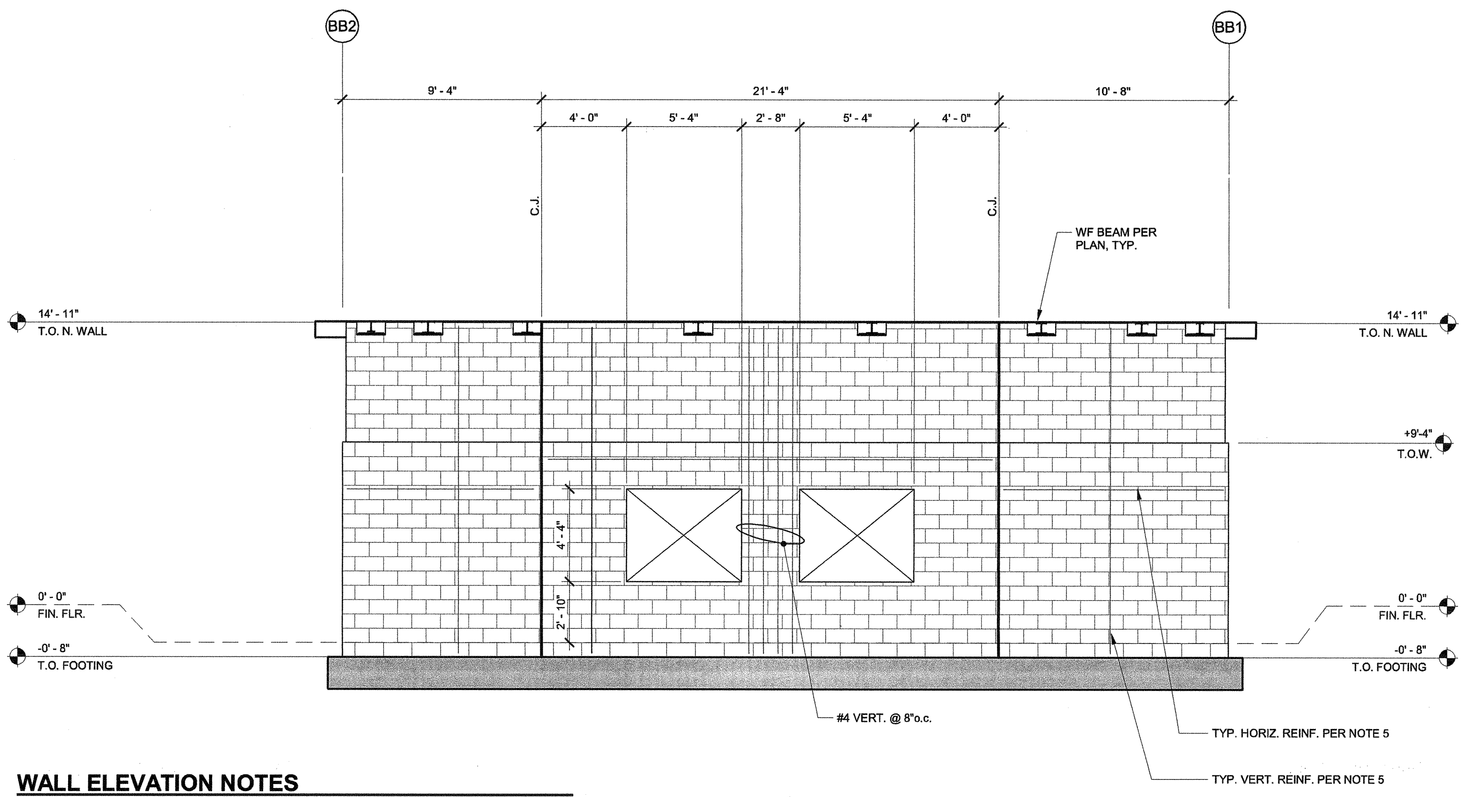
DRAWING TITLE
BUILDING 'AA' MASONRY WALL ELEVATIONS

PROJECT NO.
18-10748

DRAWING
S400-2

PLOT DATE: 12/8/2018 1:22:21 PM

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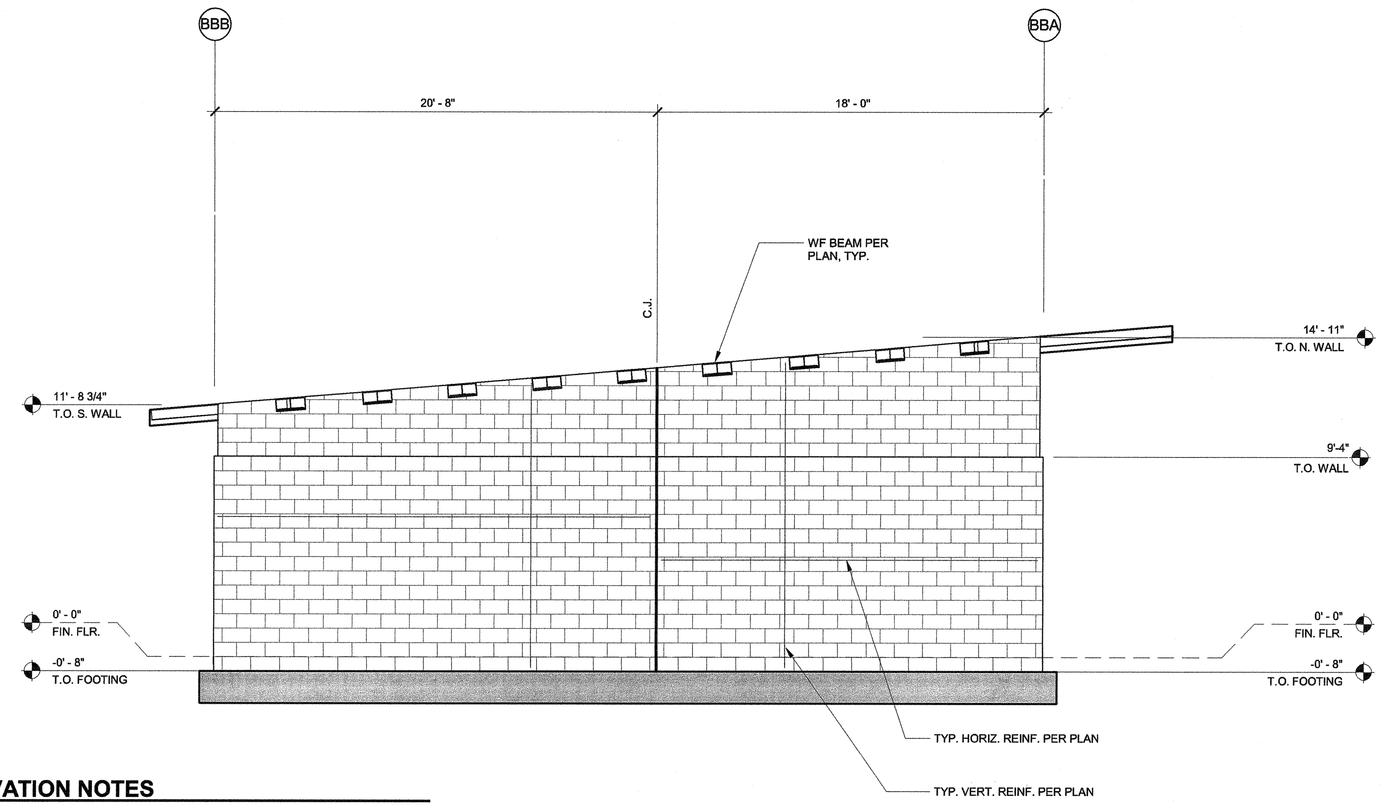


WALL ELEVATION NOTES

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NORTH WALL ELEVATION (LOOKING SOUTH) - LINE BBA | 1/4" = 1'-0" | 17

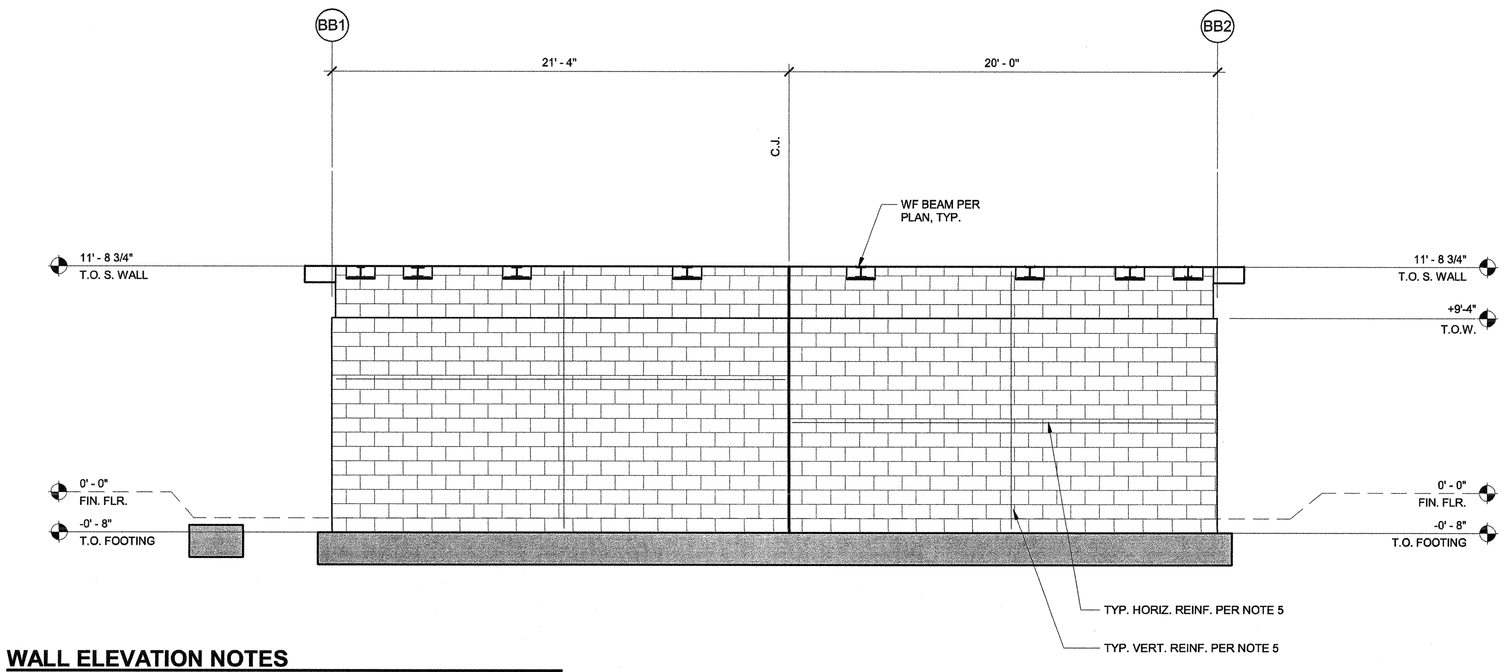


WALL ELEVATION NOTES

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EAST WALL ELEVATION (LOOKING WEST) - LINE BB2 | 1/4" = 1'-0" | 3

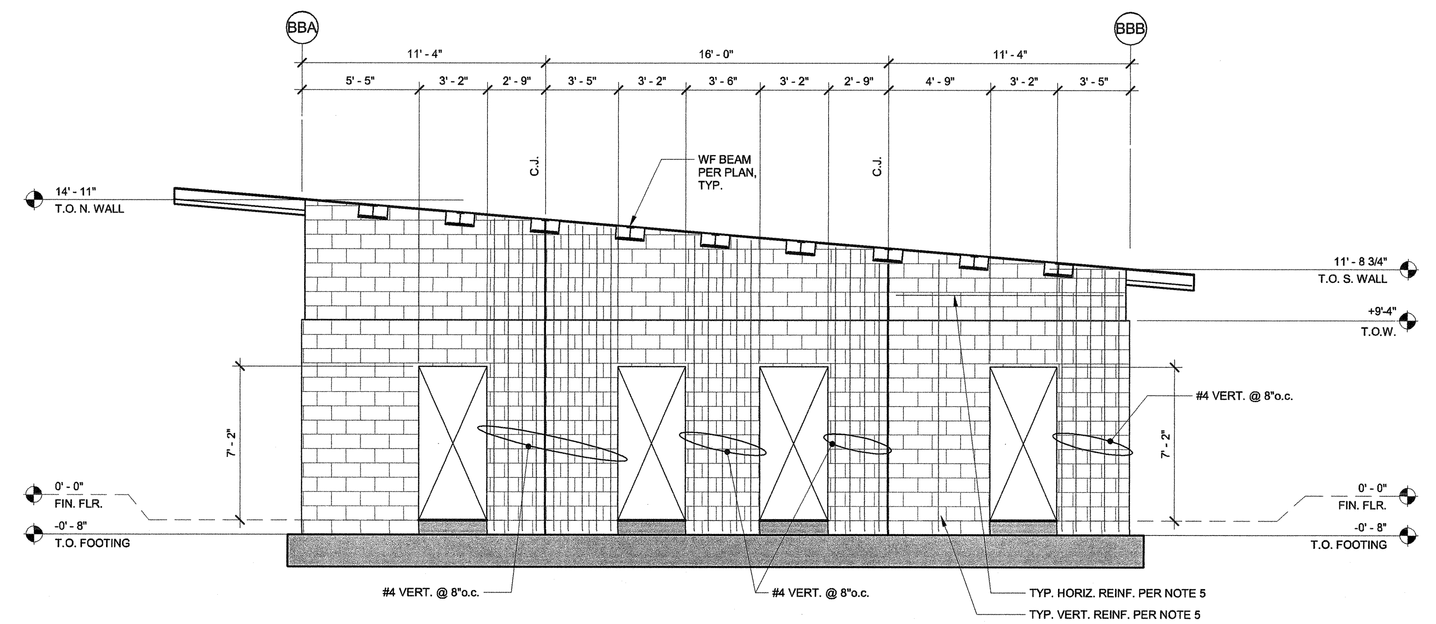


WALL ELEVATION NOTES

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SOUTH WALL ELEVATION (LOOKING NORTH) - LINE BBB | 1/4" = 1'-0" | 20



WALL ELEVATION NOTES

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WEST WALL ELEVATION (LOOKING EAST) - LINE BB1 | 1/4" = 1'-0" | 5

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FILE NUMBER: 20-H3
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REGISTERED PROFESSIONAL ENGINEER * KIMBERLY S. WINSLOW * No. S5408 * STRUCTURAL * STATE OF CALIFORNIA * 12/12/18

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STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
BUILING 'BB' MASONRY WALL ELEVATIONS

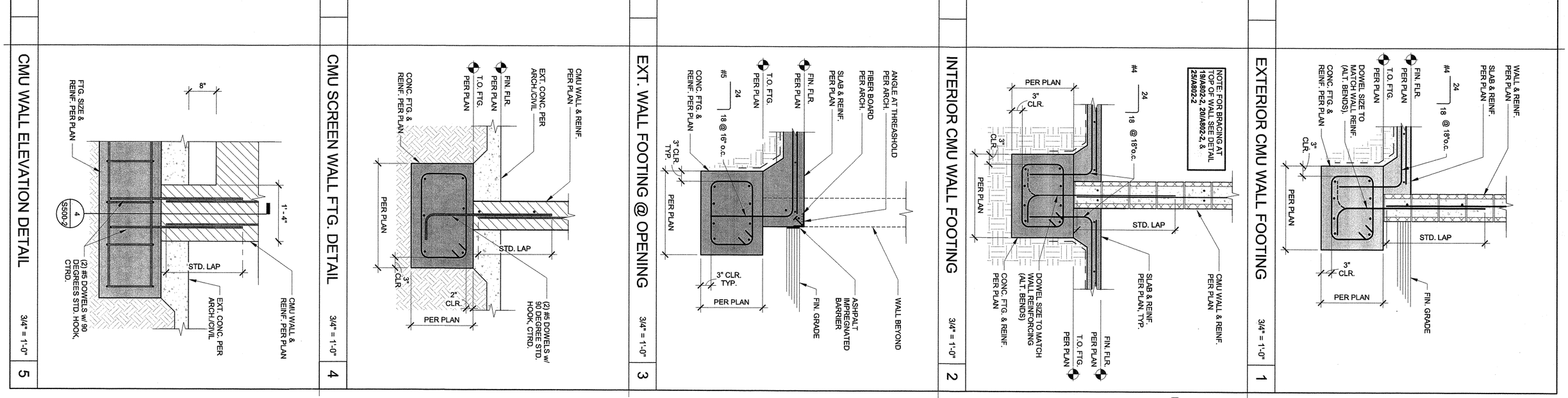
PROJECT NO.
18-10748

DRAWING
S401-2

PLOT DATE: 12/7/2018 4:24:40 PM

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EXTERIOR CMU WALL FOOTING 3/4" = 1'-0" 1

NOTE: FOR BRACING AT TOP OF WALL SEE DETAIL 18/A802-2, 20/A802-2, & 25/A802-2

INTERIOR CMU WALL FOOTING 3/4" = 1'-0" 2

EXT. WALL FOOTING @ OPENING 3/4" = 1'-0" 3

CMU SCREEN WALL FTG. DETAIL 3/4" = 1'-0" 4

CMU WALL ELEVATION DETAIL 3/4" = 1'-0" 5

STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
FOUNDATION DETAILS

PROJECT NO. 18-10748

DRAWING S500-2

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REGISTERED PROFESSIONAL ENGINEER ERIC S. TETER No. S5609 STRUCTURAL STATE OF CALIFORNIA 12/7/18

DATE: DEC 11 2018

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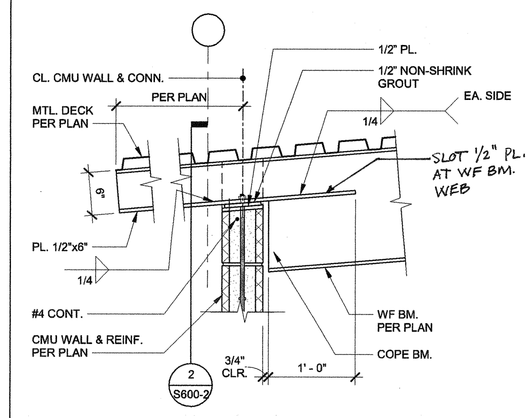
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL: 02-116986

FILE NUMBER: 20-H3

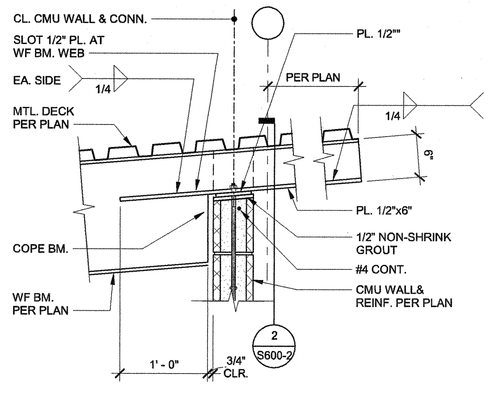
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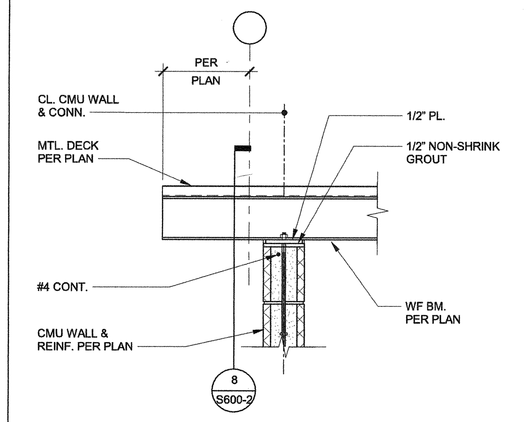
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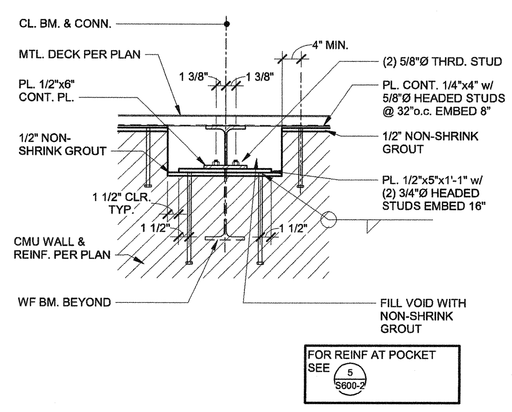
ROOF CONN. DETAIL 1" = 1'-0" 6



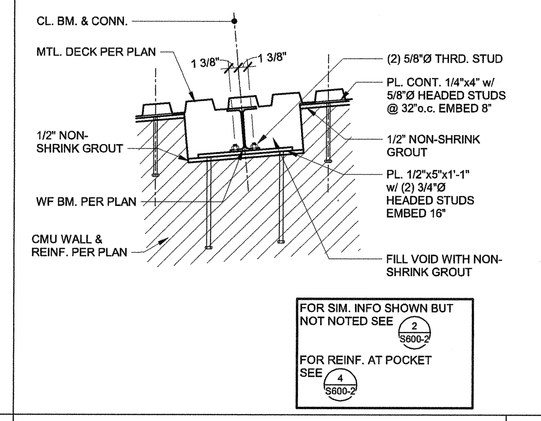
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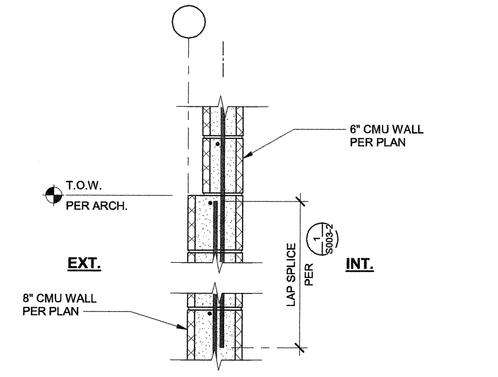
ROOF CONN. DETAIL 1" = 1'-0" 7



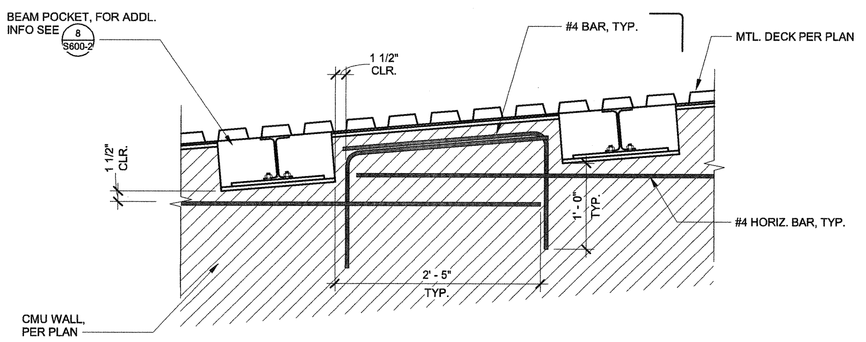
ROOF CONN. DETAIL 1" = 1'-0" 2



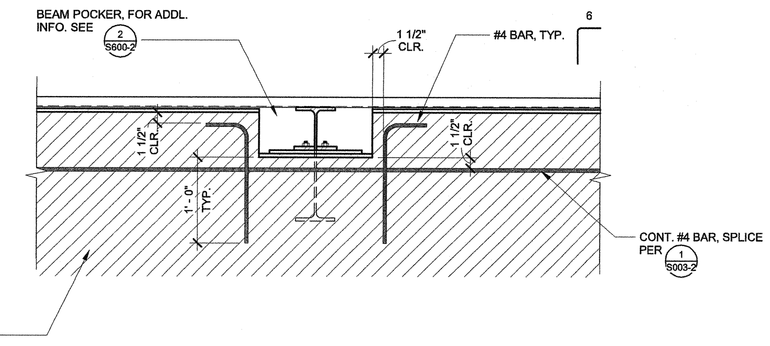
ROOF CONN. DETAIL 1" = 1'-0" 8



WALL DETAIL 1" = 1'-0" 3



CMU POCKET REINF. DETAIL 1" = 1'-0" 4



CMU POCKET REINF. DETAIL 1" = 1'-0" 5

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MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
ROOF FRAMING DETAILS

PROJECT NO.
18-10748

DRAWING
S600-2

PLOT DATE: 12/7/2018 4:24:40 PM

PLUMBING SCHEDULE

MARK	FIXTURE	CONNECTION SIZES S OR W	V	CW	HW	DESCRIPTION
WC-1	WATER CLOSET ADA	4"	2"	1"	-----	AMERICAN STANDARD "AFWALL FLOWISE" MODEL 2294.011EC, WALL MOUNTED ELONGATED BOWL WITH INLET SPUD, PROVIDE WITH 6047.121.002 MANUAL FLUSH VALVE, CHURCH SEATS 1955SSTFR OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS AND FASTENERS, AND SELF-SUSTAINING HINGES, LESS COVER, AND JAY R. SMITH SERIES 410 VERTICAL SUPPORT CARRIER WITH ADJUST-TO-WALL OUTLET CONNECTION. SEE ARCHITECTURAL FOR ACCESSIBLE MOUNTING HEIGHTS. THE FLUSHOMETER VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE STALL.
WC-2	WATER CLOSET	4"	2"	1"	-----	AMERICAN STANDARD "AFWALL FLOWISE" MODEL 2294.011EC, WALL MOUNTED ELONGATED BOWL WITH INLET SPUD, PROVIDE WITH 6047.121.002 MANUAL FLUSH VALVE, CHURCH SEATS 1955SSTFR OPEN FRONT SEAT WITH CHECK STAINLESS STEEL HINGE POSTS AND FASTENERS, AND SELF-SUSTAINING HINGES, LESS COVER, AND JAY R. SMITH SERIES 410 VERTICAL SUPPORT CARRIER WITH ADJUST-TO-WALL OUTLET CONNECTION. SEE ARCHITECTURAL FOR MOUNTING HEIGHTS.
U-1	URINAL ADA	2"	1-1/2"	3/4"	-----	AMERICAN STANDARD "WASHBROOK FLOWISE" MODEL 6590.503 ULTRA HIGH EFFICIENCY PINT URINAL PROVIDED WITH 6045.103.002 0.125 GPF FLUSH VALVE AND WALL HANGER BRACKET, AND JAY R. SMITH 637 SUPPORT CARRIER WITH ADJUST-TO-WALL OUTLET CONNECTION. SEE ARCHITECTURAL FOR ACCESSIBLE MOUNTING HEIGHTS.
L-1	LAVATORY ADA	2"	1-1/2"	1/2"	-----	AMERICAN STANDARD "LUCERNE" 0355.012 WALL-HUNG, 20"x18" VITROUS CHINA WITH BACKSPLASH & WALL BRACKET, HOLES ON 4" CENTERS WITH SYMMONS METERING FAUCET SCOT S-61, MCGUIRE 155A GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING, AND JAY R. SMITH 700 SUPPORT CARRIER. SEE ARCHITECTURAL FOR ACCESSIBLE MOUNTING HEIGHTS.
S-1	CONCESSIONS HAND SINK ADA	2"	1-1/2"	1/2"	1/2"	JUST A-33338, WALL-HUNG ADA COMPLIANT, 20"x18" TYPE 304 STAINLESS STEEL WITH JUST J-15-FS DRAIN, AND CHICAGO FAUCET MODEL 802VE39VPABCP MANUAL LEVER FAUCET WITH 0.35 GPM FLOW OUTLET, AND JAY R. SMITH MOUNT FIXTURE TO 1/4" THICK X 6" WIDE STEEL BACKING PLATE SECURED TO WALL STUDS. SEE ARCHITECTURAL FOR ACCESSIBLE MOUNTING HEIGHTS. SET METER FLOW TO 10 SECONDS MINIMUM.
S-2	THREE-COMPARTMENT SINK	2"	-----	1/2"	1/2"	ADVANCE TABCO MODEL 94-3-54-18RL, 16"x20"x12" DEEP BOWL SIZE, TRIPLE COMPARTMENT, 14 GAUGE TYPE 304 STAINLESS STEEL WITH (2) 18" INTEGRAL DRAIN BOARDS AND SINKS PITCHED TO DRAIN. LEFT AND RIGHT SELF RIMMING SINK LEDGES, STAINLESS STEEL BASKET STRAINER, WITH CHICAGO FAUCETS MODEL 445-GN8AE35RABCP, WALL MOUNT, SWING GOOSENECK SPOUT, 1.5 GPM VANDAL PROOF OUTLET. SUPPORTED ON (4) STAINLESS STEEL TUBULAR LEGS WITH ADJUSTABLE BULLET-SHAPED FEET.
MS-1	MOP SINK	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD "FLORWELL" #7745.000 FLOOR MOUNTED 28" X 28" ENAMELED CAST IRON WITH #7745.811 RIM GUARD, WITH CHICAGO MODEL 897-CCP FAUCET WITH VACUUM BREAKER, HOSE END, BUCKET HOOK, INTEGRAL SHANK-STOPS & WALL BRACE. PROVIDE 5 FEET OF 1/2" DIAMETER PLAIN END REINFORCED PLASTIC HOSE.
DF-1	DRINKING FOUNTAIN ADA WITH BOTTLE FILLER	2"	1-1/2"	1/2"	-----	HAWS 1119.14 DUAL HEIGHT DRINKING FOUNTAIN WITH HAWS 1900 BOTTLE FILLING STATION, WALL-HUNG 14 GA STAINLESS STEEL WITH SATIN FINISH, POLISHED CHROME BUBBLER HEADS, PUSH BUTTON VALVES, VANDAL RESISTANT BOTTOM PLATES, NPT TRAPS, SCREWDRIVER STOP, HAWS 6700.4 MOUNTING PLATE WITH HAWS 6800 SUPPORT CARRIER. SEE ARCHITECTURAL FOR ACCESSIBLE MOUNTING HEIGHTS.
HB-1	HOSE BIBB	-----	-----	3/4"	-----	JAY R. SMITH #5518-NB-CL, RECTANGULAR WALL HYDRANT BOX WITH NICKEL BRONZE BOX FACE, 16 GAUGE STAINLESS STEEL FRAME AND HINGED LOCKING COVER WITH OPTIONAL CYLINDER LOCK, HOSE BIBB CONNECTION, VACUUM BREAKER, 3/4" MALE PIPE INLET, AND LOOSE TEE KEY HANDLE.
FD-1	FLOOR DRAIN	2"	1-1/2"	TP	-----	JAY R. SMITH 2005Y-05-NB-HP-P050 COATED CAST IRON WITH 5" SQUARE NICKEL BRONZE HEEL-PROOF GRATE, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET AND TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	2"	1-1/2"	-----	-----	JAY R. SMITH 3140Y02-12-C, 12" X 12" X 6" DEEP COATED CAST IRON WITH NICKEL BRONZE RIM WITH HALF GRATE, DOME BOTTOM STRAINER, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET.
TP-1	TRAP PRIMER	-----	-----	1/2"	-----	PRECISION PLUMBING PRODUCTS PR-500 "PRIME-RITE" PRESSURE DROP ACTIVATED WITH #DU-U DISTRIBUTION UNIT FOR UP TO (2) FLOOR DRAINS. PROVIDE 14"x16" STAINLESS STEEL ACCESS DOOR WITH CYLINDER LOCK. PROVIDE SOV UPSTREAM OF TRAP PRIMER.
TET-1	THERMAL EXPANSION TANK	-----	-----	1/2"	-----	WILKINS XT-35, 9 GALLON CAPACITY ASME RATED EXPANSION TANK WITH IN-LINE CONNECTIONS, LEAD FREE, AND FDA APPROVED BLADDER FOR POTABLE WATER USE.
CP-1	CIRCULATING PUMP	-----	-----	-----	3/4"	GRUNDFOS UPS15-55SFC STAINLESS STEEL DOMESTIC HOT WATER IN-LINE CIRCULATING PUMP, WITH FLANGED CONNECTIONS, 3-SPEED MOTOR, INTEGRAL CHECK VALVE, 5 GPM AT 13 FT. TDH., 1/12 HP, 120V/1PH.
WH-1	WATER HEATER	-----	-----	3/4"	3/4"	A.O. SMITH DEN-80 DURAPOWER COMMERCIAL ELECTRIC, 80 GALLON STORAGE CAPACITY GLASS LINED TANK, (2) 4500 WATT ELEMENTS WIRED SIMULTANEOUSLY FOR 9 KW TOTAL, 208V/1 PHASE, 46 GPH RECOVERY RATE AT 80 DEGREES F. TEMPERATURE RISE, AND 3/4" P&T RELIEF VALVE. DIMENSIONS: 24" DIAMETER x 59-3/8" HIGH. OPERATING WEIGHT: 879 LBS.
IWH-1	INSTANTANEOUS WATER HEATER	-----	-----	3/8"	3/8"	CHRONOMITE ER80S/208_16600, INSTANT-TEMP, HIGH CAPACITY, STANDARD ACTIVATION INSTANTANEOUS ELECTRIC WATER HEATER WITH FIELD ADJUSTABLE TEMPERATURE MICROPROCESSOR SET TO DELIVER 117°F HOT WATER OUTLET TEMPERATURE AT 2.0 GPM FLOW RATE, 16,600 WATTS, (2) 40 AMPS = 80 AMPS TOTAL, 280V/1PH. WEIGHT: 24 LBS.

ANCHORAGE & BRACING NOTES

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

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

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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

THE METHODS 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. SMACNA OR OSHPD OM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON 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):

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

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

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

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
&	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
℄	CENTER LINE	
≀	CONTINUATION	CONT
	CUBIC FEET PER HOUR	CFH
⌀	DIAMETER	DIA
	DOWN	DN
	DRAWING	DWG
	ELBOW	ELL
	ELECTRICAL	ELEC
	EXISTING	(E)
	FEET	FT
	FLOOR	FLR
	FLOW LINE	FL
	GALLON	GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	GAUGE	GA
	INSIDE DIAMETER	ID
	INVERT ELEVATION	I.E.
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW	(N)
	NOT IN CONTRACT	NIC
	NOT TO SCALE	NTS
#	NUMBER	NO.
	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	ROOM	RM
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	THROUGH	THRU
	TYPICAL	(TYP)
	UNDER GROUND	U/G
	WATER COLUMN	WC
	WITH	W/
	WITHOUT	W/O
A	COMPRESSED AIR	A
AV	ACID VENT	AV
AW	ACID WASTE	AW
	ACID VENT RISER	AVR
	ACID VENT THRU ROOF	AVTR
CD	CONDENSATE DRAIN	CD
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
G	LOW PRESSURE NATURAL GAS	G
HPG	HIGH PRESSURE GAS	HPG
ICW	INDUSTRIAL COLD WATER	ICW
LPG	LIQUIFIED PETROLEUM GAS	LPG
F	FIRE PROTECTION LINE	
RWL	RAIN WATER LEADER	RWL
OD	OVERFLOW DRAIN	OD
SD	STORM DRAIN	SD
	SOIL or WASTE	S or W
MA	MEDICAL AIR	MA
O_2	OXYGEN	O_2
VAC	VACUUM	VAC
	VENT	V
	VENT RISER	VR
	VENT THRU ROOF	VTR
	CLEANOUT TO GRADE	COTG
	DEMOLITION	DEMO
	EXISTING PIPING	
	FLOOR CLEANOUT	FCO
	HOSE BIBB	
	PIPING TURN UP	
	PIPING TURN DOWN	
	PIPING CAP	
	POINT OF CONNECTION TO EXISTING	POC
	ANGLE VALVE	
	BALANCE VALVE	
	BALL VALVE	
	CHECK VALVE	

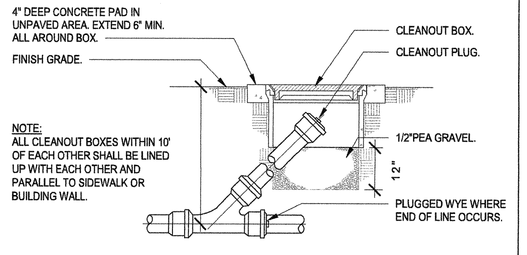
SYMBOL	ITEM	ABBR.
	CONCENTRIC REDUCER	
	TWO-WAY CONTROL VALVE	
	PLUG VALVE	
	PRESSURE REDUCING VALVE	
	SHUT-OFF VALVE IN BOX	SOV
	SHUT-OFF VALVE	SOV
	THERMOSTATIC MIXING VALVE	
	TEMPERATURE / PRESSURE RELIEF VALVE	PRV
	UNION	
	WALL CLEANOUT	WCO
	"Y" TYPE STRAINER	
P	PRESSURE GAUGE	
T	TEMPERATURE GAUGE	
1	KEYNOTE	
2 / P202	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P202	
3 / P400	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	

GENERAL NOTES

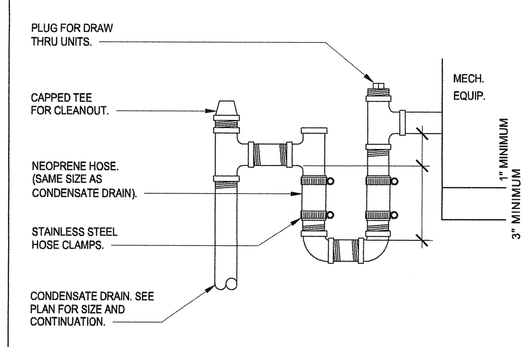
1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTEN TION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
5. MINIMUM SLOPE FOR SEWER IS 1/4"PER FT, UNLESS OTHERWISE NOTED.
6. ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM WITH AS FEW PENETRATIONS AS POSSIBLE.
7. MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4" UNLESS OTHERWISE NOTED. USE A REDUCING ELL AT FIXTURE, IF NECESSARY.
8. ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE" REQUIREMENT FOR THE STATE OF CALIFORNIA.
9. MINIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS.

PLUMBING SHEET INDEX

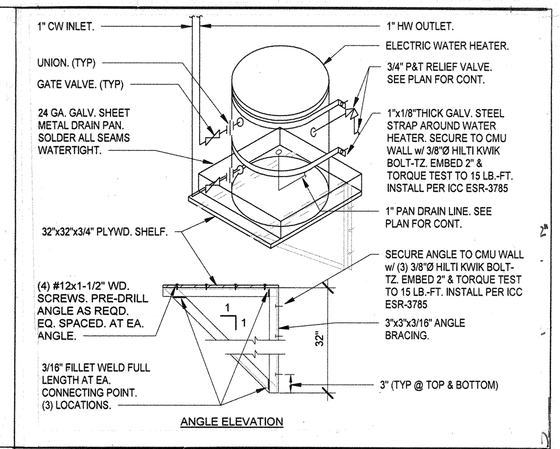
P001-2 PLUMBING SCHEDULE, LEGEND, NOTES & DETAILS
P100-2 PLUMBING SITE PLAN
P200-2 PLUMBING PLAN



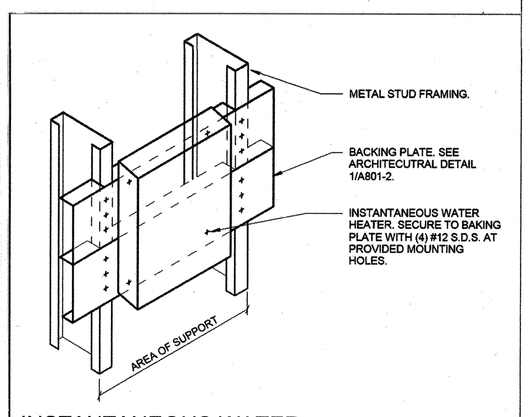
CLEANOUT TO GRADE N.T.S. 5



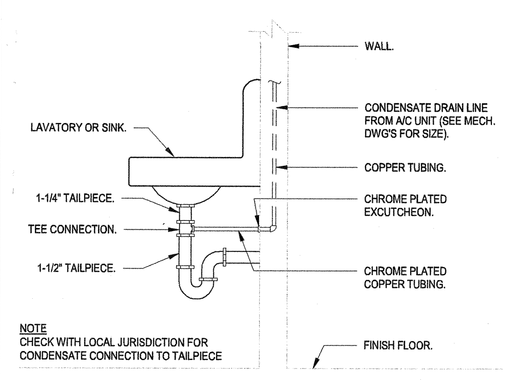
CONDENSATE DRAIN CONNECTION N.T.S. 3



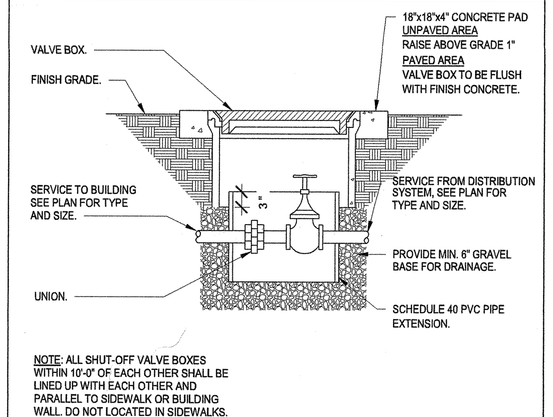
ELECTRIC WATER HEATER ON WALL N.T.S. 1



INSTANTANEOUS WATER HEATER MOUNTING DETAIL. N.T.S. 6



CONDENSATE TERMINATION AT TAILPIECE N.T.S. 4



SHUT-OFF VALVE IN BOX N.T.S. 2

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MARK	DATE	DESCRIPTION
	12-12-18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL: 02-116986
AC FLS SS KG
DATE: 11 DEC 2018

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FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

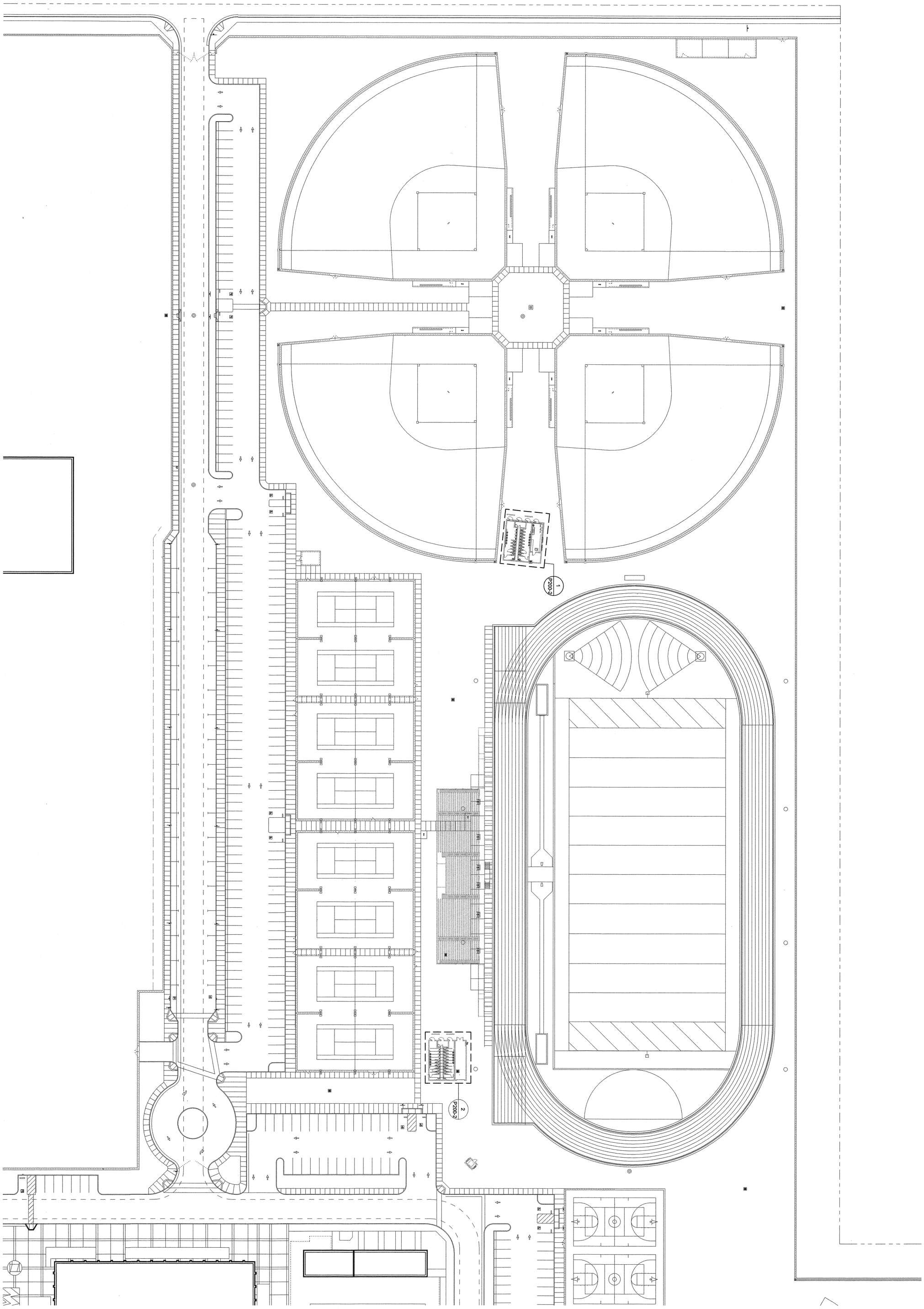
STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
PLUMBING SCHEDULE, LEGEND, NOTES & DETAILS

PROJECT NO.
18-10748

DRAWING
P001-2

PLOT DATE: 12/4/2018 9:38:56 AM



PLUMBING SITE PLAN

1" = 40'-0"

NORTH

1

STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
PLUMBING SITE PLAN

PROJECT NO. 18-10748

DRAWING P100-2

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ARCHITECTS ENGINEERS CONNECTED

REGISTERED PROFESSIONAL ENGINEER
JONATHAN C. SETTLES
M35955
Exp. 08-30-20
MECHANICAL
STATE OF CALIFORNIA

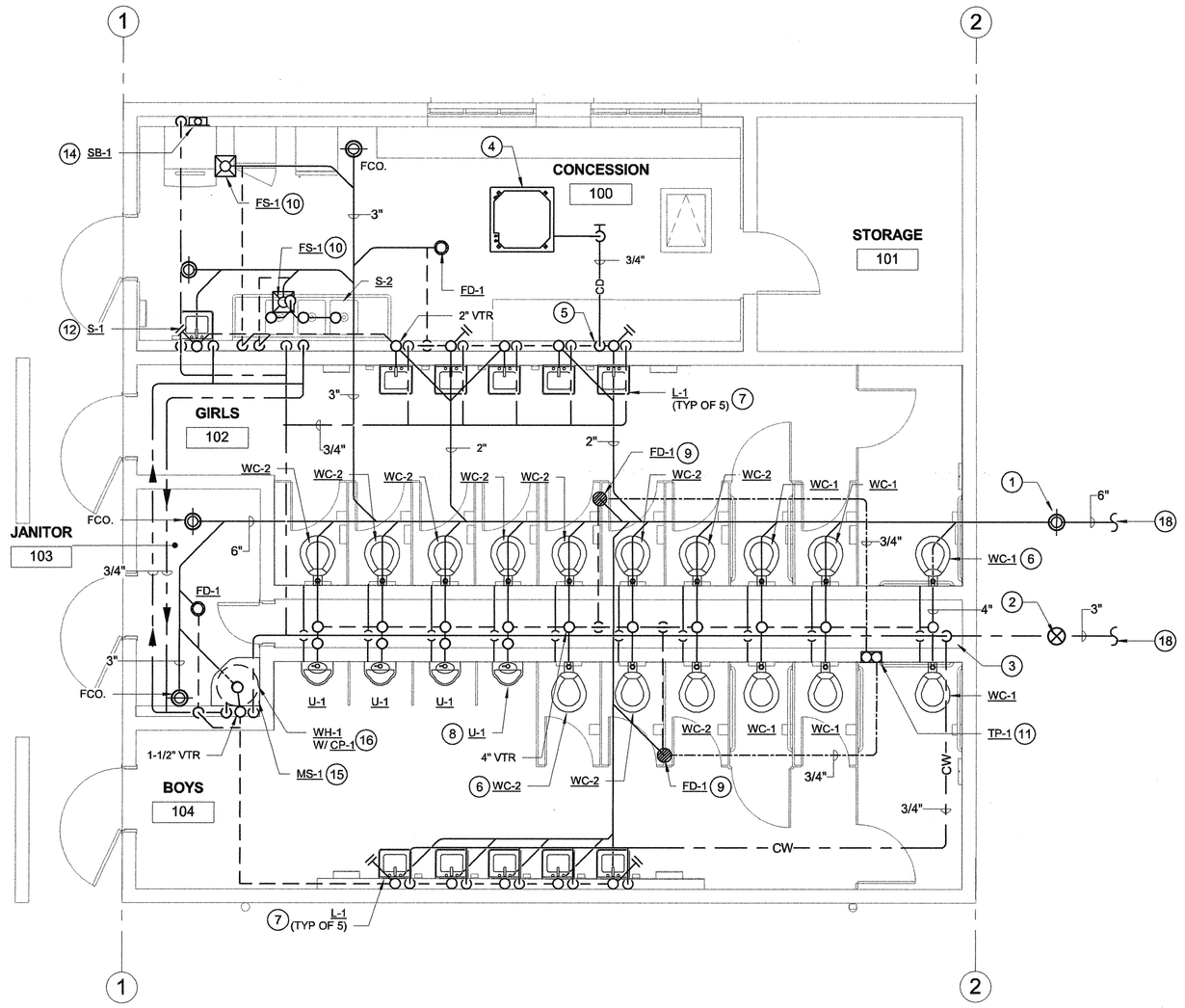
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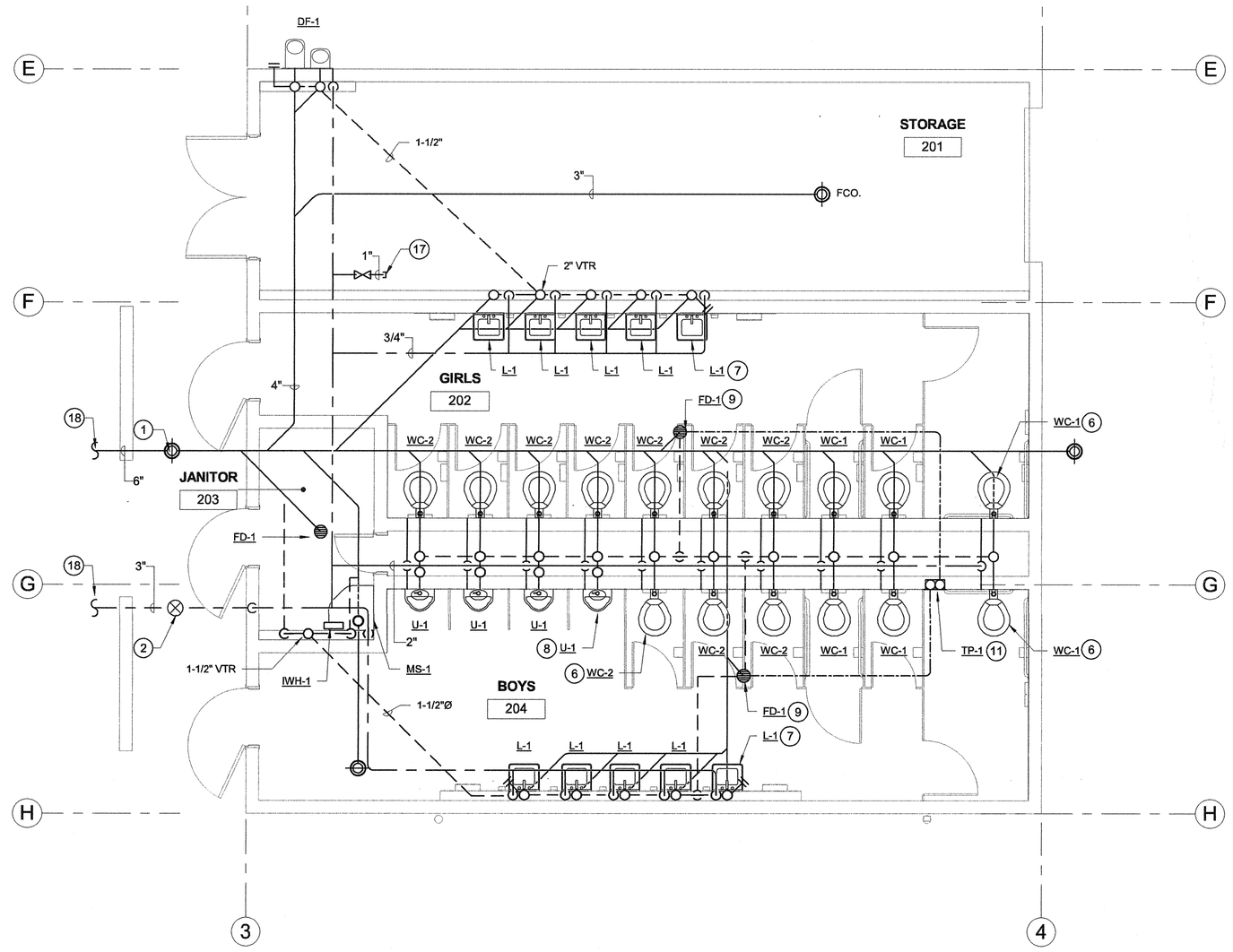
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BUILDING 'BB' - CONCESSION PLUMBING PLAN

1/4" = 1'-0" | 1



BUILDING 'AA' - RESTROOM PLUMBING PLAN

1/4" = 1'-0" | 2

KEYNOTES

1 (N) 6" COTG. SEE DETAIL 5/P001.
2 (N) CW SOV IN BOX. SEE DETAIL 2/P001.
3 CW UP FROM BEL. GR. AND OFFSET IN CHASE. RISE TO ABV. CLG.
4 CEILING IDU. SEE MECHANICAL DRAWINGS. CONNECT CD HOSE TO IDU PUMP OUTLET PER DETAIL 3/P001. RISE UP INTO ATTIC AND DROP DN INTO TOP OF 3/4" GRAVITY CD LINE. (TYP)
5 3/4" CD DN AND CONNECT TO TAILPIECE OF SINK PER DETAIL 4/P001. (TYP)
6 4" S, 2" VR & 1" CW DN FOR WATER CLOSET. (TYP)
7 2" S, 1-1/2" VR & 1/2" CW DN FOR LAVATORY. (TYP)
8 2" S, 1-1/2" VR & 3/4" CW DN FOR URINAL. (TYP)
9 2" S W/ P-TRAP, 1-1/2" V OFFSET BEL. FLR., AND 1/2" TP CONNECTION FOR FLOOR DRAIN. (TYP)
10 2" S W/ P-TRAP AND 1-1/2" V OFFSET BEL. FLR. FOR FLOOR SINK. (TYP)
11 1/2" CW DN TO TRAP PRIMER W/ SOV AT INLET. LOCATE TP IN WALL BEHIND 12"x12" ACCESS DOOR @ +12" AFF. ROUTE 1/2" CW BEL. FLR. FROM TP-1 TO FD-1.
12 2" S W/ WCO, 1-1/2" VR, 3/4" CW & 3/4" HW DN FOR SINK.
13 2" S W/ WCO, 1-1/2" VR & 3/4" CW FOR DRINKING FOUNTAIN.
14 1/2" CW DN TO RECESSED WATER SUPPLY BOX @ +12" AFF.
15 3" W/ P-TRAP, 2" V OFFSET BEL. FLR., 3/4" CW & 3/4" HW DN FOR MOP SINK.
16 ELECTRIC WATER HEATER ON SHELF. SEE DETAIL 1/P001.
17 1" CW CAPPED CW CONNECTION FOR FUTURE TIE-IN.
18 SEE CIVIL DWGS FOR CONTINUATION.

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STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
PLUMBING PLAN

PROJECT NO.
18-10748

DRAWING
P200-2

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MECHANICAL SCHEDULES

EXHAUST FAN SCHEDULE (BLDG 'AA' - RESTROOMS)

DESIGNATION	EF-1	EF-2	EF-3
CFM	720	130	720
EXT. SP (IN. WC)	0.25	0.25	0.25
HP / WATTS	- / 285	- / 128	- / 285
VOLTS / PHASE	115 / 1	115 / 1	115 / 1
RPM	847	894	847
TIP SPEED / SONES	- / 3.5	- / 2.0	- / 3.5
DRIVE	DIRECT	DIRECT	DIRECT
MOUNTING	CEILING	CEILING	CEILING
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	SP-A900	SP-B150	SP-A900
CONTROL	INTERLOCK W/ LIGHTSWITCH	INTERLOCK W/ LIGHTSWITCH	INTERLOCK W/ LIGHTSWITCH
LOCATION	GIRLS 106	JANITOR 107	BOYS 108
OPER. WT. (LBS)	70	17	70
ACCESSORIES	1,2	1,2	1,2

1. PROVIDE STAINLESS STEEL GRILLE, BACKDRAFT DAMPER AND SPEED CONTROLLER.
2. INTERLOCK WITH LIGHTSWITCH.

EXHAUST FAN SCHEDULE (BLDG 'BB' - CONCESSIONS)

DESIGNATION	EF-4	EF-5	EF-6	EF-7	EF-8
CFM	460	700	130	720	100
EXT. SP (IN. WC)	0.25	0.25	0.25	0.25	0.25
HP / WATTS	- / 224	- / 350	- / 128	- / 285	- / 80
VOLTS / PHASE	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
RPM	1070	1100	894	847	950
TIP SPEED / SONES	- / 4.5	- / 5.0	- / 2.0	- / 3.5	- / 1.5
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOUNTING	CEILING	CEILING	CEILING	CEILING	CEILING
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	SP-A510	SP-A700	SP-B150	SP-A900	SP-B110
CONTROL	NOTE 3.	INTERLOCK W/ LIGHTSWITCH	INTERLOCK W/ LIGHTSWITCH	INTERLOCK W/ LIGHTSWITCH	INTERLOCK W/ LIGHTSWITCH
LOCATION	CONCESSIONS 100	GIRLS 102	JANITOR 103	BOYS 104	STORAGE
OPER. WT. (LBS)	45	48	17	70	17
ACCESSORIES	1,3	1,2	1,2	1,2	1,3

1. PROVIDE STAINLESS STEEL GRILLE, BACKDRAFT DAMPER AND SPEED CONTROLLER.
2. INTERLOCK WITH LIGHTSWITCH.
3. WIRED WALL MOUNTED THERMOSTAT.

LOUVER SCHEDULE

MARK	DUTY	DESCRIPTION
A	INTAKE LOUVER	RUSKIN ELF375X EXTRUDED ALUMINUM STATIONARY LOUVER, 'J' STYLE BLADE, 4" FRAME DEPTH, FLANGE FRAME.

INDOOR UNIT SCHEDULE

DESIGNATION		IDU-1
BLOWER	SUPPLY AIR (CFM)	600
	EXT. SP (IN. WC)	-
	MIN. O.S.A. (CFM)	-
	VOLTS / PHASE	208-230 / 1
	MCA / MOCP	1 / 15
	F.L.A.	0.36
	RPM	-
	DRIVE	DIRECT
COOLING	SENSIBLE (MBH)	18.0
	TOTAL (MBH)	18.0
	EADB / EAWB (°F)	80 / 67
HEATING	CAP. (MBH) @ 47°F	19.0
	KW	1.3
	STAGES	-
FILTERS	QUANTITY / SIZE	- / -
	TYPE	WASHABLE
	PD (IN. WC)	-
MANUFACTURER		MITSUBISHI
TYPE		CEILING CASSETTE
MODEL NUMBER		PLA-A18EA7
LOCATION		CONCESSIONS 100
OPER. WT (LBS)		68
ACCESSORIES		1,2

1. WIRED WALL MOUNTED THERMOSTAT.
2. REFRIGERANT LINE SET COVERS FOR EXPOSED PIPING IN ROOM. (AC COVER GUARD)

OUTDOOR UNIT SCHEDULE

DESIGNATION	ODU-1
NAMEPLATE AMPS	-
VOLTS / PHASE	208-230 / 1
MCA / MOCP	11 / 28
EER / SEER	14.4 / 24.6
COOLING CAP. (MBH)	18.0
HSPF / COP	11.0 / 4.3
HEATING CAP. (MBH)	23.0
AMBIENT (°F)	105
MANUFACTURER	MITSUBISHI
TYPE	HEAT PUMP
MODEL NUMBER	PUZ-A18NKA7
LOCATION	GROUND
OPER. WT. (LBS)	112
ACCESSORIES	-

GENERAL NOTES

1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
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3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.
5. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2016 CMC.
6. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2016 CMC. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 118, 123, AND 124 OF THE 2016 CALIFORNIA ENERGY CODE.
7. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
8. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH CMC LATEST EDITION, CHAPTER 6 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
9. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
10. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS (SUPPLY, RETUTRN, O.A. AND EXHAUST) FOR SYSTEM BALANCING.
11. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED IN THE PROJECT MANUAL.
12. ALL AIR SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO MEET THE REQUIRED FLOW. TAB METHODOLOGY SHALL BE SUBMITTED TO OWNER REPRESENTATIVE PRIOR TO IMPLEMENTATION AND IN ACCORDANCE WITH PROJECT SEQUENCING.

ANCHORAGE & BRACING NOTES

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

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

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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

THE METHODS 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. SMACNA OR OSHPD OM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON 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):

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

MD [ ] MP [ ] PP [ ] E [ ] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # _____

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

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	AIR CONDITIONING	AC
&	AND	
@	AT	
	BELOW GRADE	BEL GR
	BRITISH THERMAL UNIT	BTU
	BRITISH THERMAL UNIT PER HOUR	BTUH
	CEILING	CLG
	CONTINUATION	CONT
	CUBIC FEET OF AIR PER MINUTE	CFM
Φ	DIAMETER	DIA
	EXHAUST FAN	EF
	FEET	FT
	FLOOR	FLR
	GAUGE	GA
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW	(N)
	NOT TO SCALE	NTS
#	NUMBER	NO.
	OUTSIDE AIR	OSA
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	ROOM	RM
	SPECIFICATION	SPEC
	SQUARE FEET	SQ.FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	THROUGH	THRU
	TYPICAL	(TYP)
	WITH	W/
RD	REFRIGERANT DISCHARGE	RD
RL	REFRIGERANT LIQUID	RL
RS	REFRIGERANT SUCTION	RS
D	DRAIN	D
	PIPING CAP	
	EXISTING (DESIGNATED)	(E)
	DIRECTION OF FLOW	
	PIPE/DUCT TURN DOWN	
	PIPE/DUCT TURN UP	
	ROUND DUCT (SMALLER THAN 10"Φ)	
	ROUND FLEXIBLE DUCT	
	RECTANGULAR OR ROUND DUCT (10"Φ AND LARGER)	
	EXISTING DUCT (DESIGNATED)	
	DUCT WITH ACOUSTIC LINING	
	SUPPLY AIR DUCT DROP	
	SUPPLY AIR DUCT RISE	
	RETURN AIR DUCT DROP	
	RETURN AIR DUCT RISE	
	EXHAUST AIR DUCT DROP	
	EXHAUST AIR DUCT RISE	
	TURNING VANES	TV
CO	CO_2 SENSOR	
DD	DUCT DETECTOR	DD
SD	SMOKE DETECTOR	'SD
-OR-	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
T AC-1	THERMOSTAT: THERMOSTAT LABEL EXAMPLE : THERMOSTAT FOR AC-1 MOUNT AT +48" AFF TO TOP OF BOX	T'STAT
	POINT OF CONNECTION TO EXISTING	POC
1	KEYNOTE	
A	GRILLE TAG	
EF 8	NEW EQUIPMENT TAG EXAMPLE: DESCRIPTION EF, MARK NUMBER 8	
2 M202	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET M202	

MECHANICAL SHEET INDEX

M001-2 MECHANICAL SCHEDULES, LEGEND & NOTES
M200-2 MECHANICAL PLANS
M800-2 MECHANICAL DETAILS
M900-2 TITLE 24 DOCUMENTATION

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MARK	DATE	DESCRIPTION
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FILE NUMBER: 20-H3
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DIVISION OF THE STATE ARCHITECT

APPL: 02-116986

AC FLR SS KG

DATE: 11 DEC 2018

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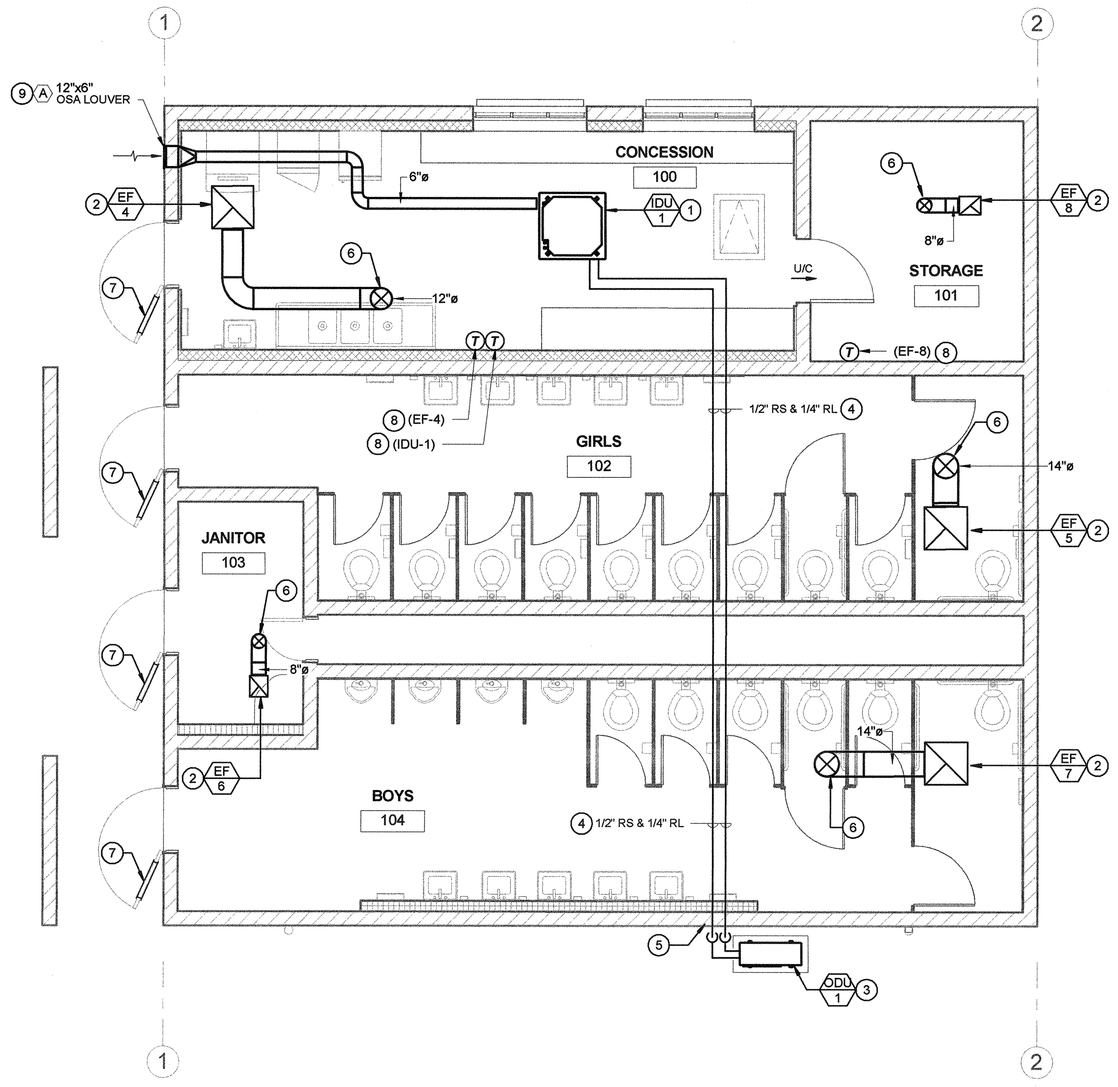
STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
MECHANICAL SCHEDULES, LEGEND & NOTES

PROJECT NO.
18-10748

DRAWING
M001-2

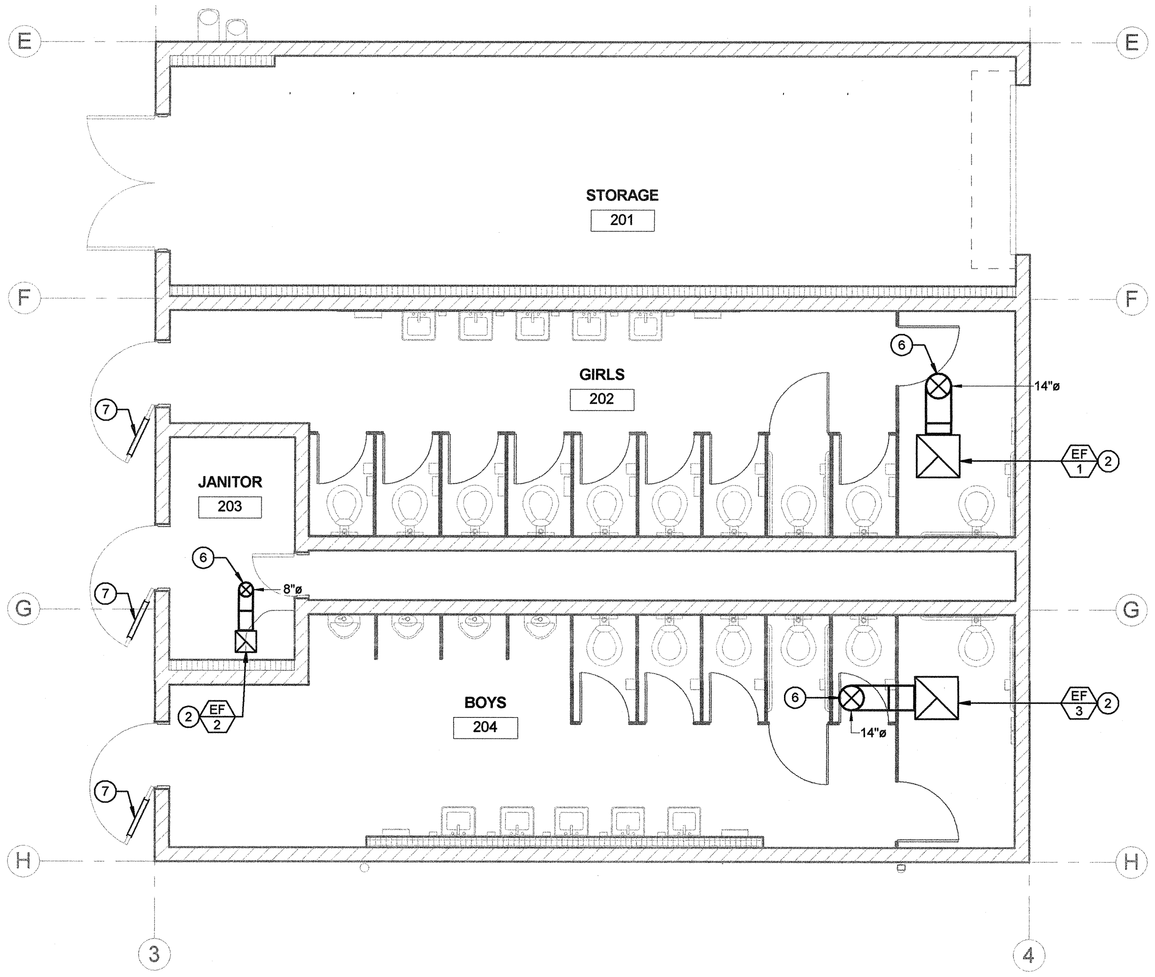
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BUILDING 'BB' - MECHANICAL PLAN

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

1



BUILDING 'AA' - MECHANICAL PLAN

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

2

KEYNOTES

1. 4-WAY CEILING CASSETTE TYPE INDOOR UNIT. SEE DETAIL 1/M800-2.
2. CEILING MOUNTED EXHAUST FAN. SEE DETAIL 4/M800-2.
3. GROUND MOUNTED OUTDOOR HEAT PUMP CONDENSING UNIT. SEE DETAIL 2/M800-2.
4. REFRIGERANT PIPING ROUTED ABOVE CEILING PER DEAIL 7/M800-2.
5. REFRIGERANT PIPING THROUGH WALL PER DETAIL 9/M800-2. ROUTE DN WALL PER 6/M800-2 AND OVER TO ODU-1.
6. ROUTE EA DUCT UP THROUGH ROOF AND TERMINATE WITH ROOF CAP PER DETAIL 5/M800-2.
7. DOOR LOUVER PER ARCHITECTURAL DRAWINGS.
8. THERMOSTAT ON WALL. MOUNT @ +48" AFF TO TOP OF BOX.
9. OSA LOUVER PER DETAIL 10/M800-2.

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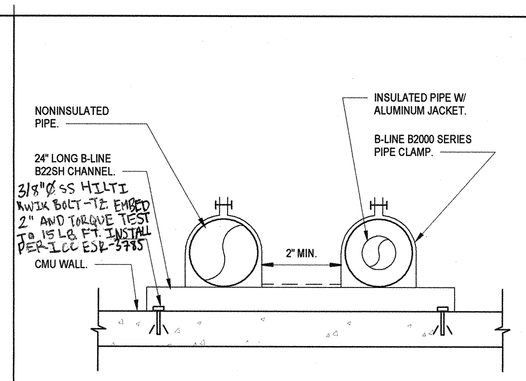
STADIUM MODERNIZATION INCREMENT NO. 2
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MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
MECHANICAL PLANS

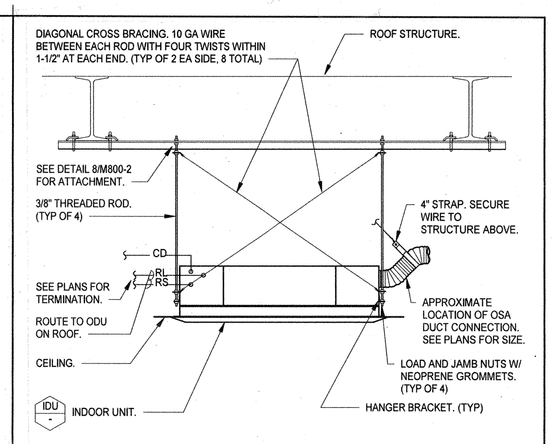
PROJECT NO.
18-10748

DRAWING
M200-2

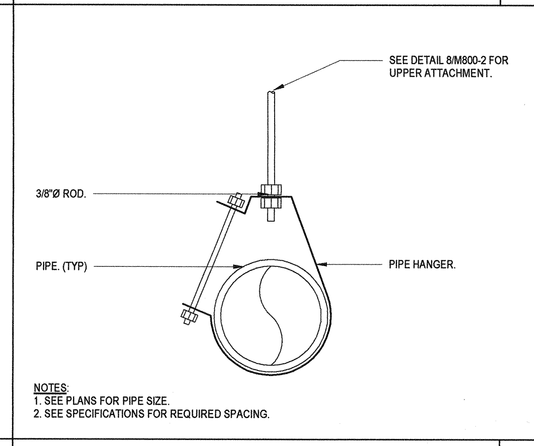
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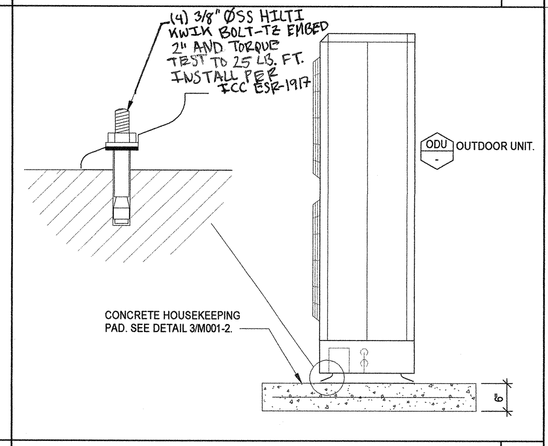
PIPE SUPPORT ON WALL N.T.S. 6



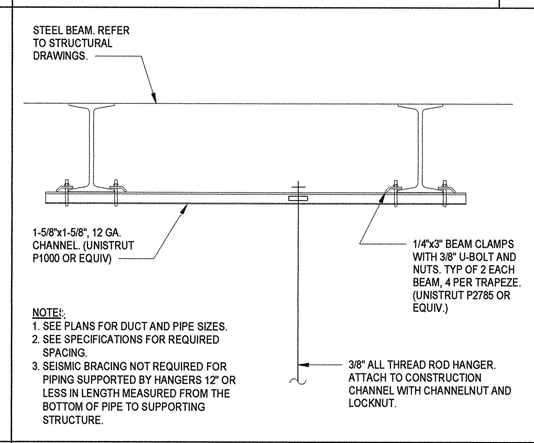
INDOOR UNIT - CEILING CASSETTE N.T.S. 1



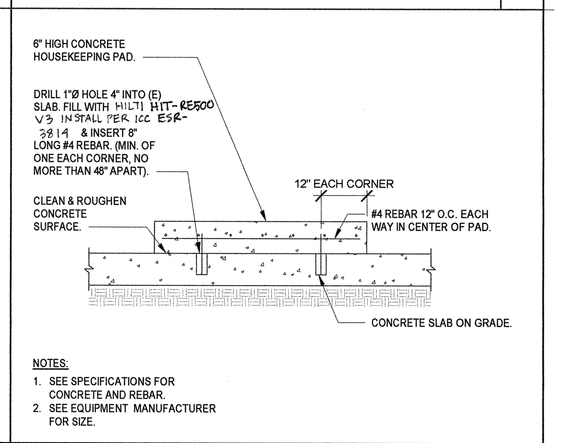
PIPE SUPPORT N.T.S. 7



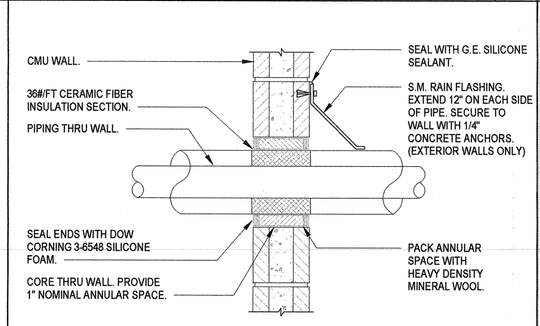
OUTDOOR UNIT ON CONCRETE PAD N.T.S. 2



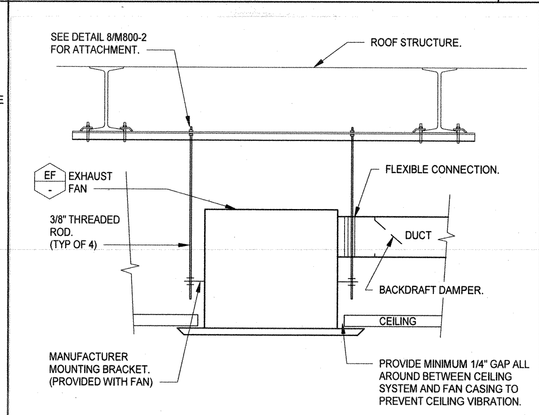
UPPER ATTACHMENT N.T.S. 8



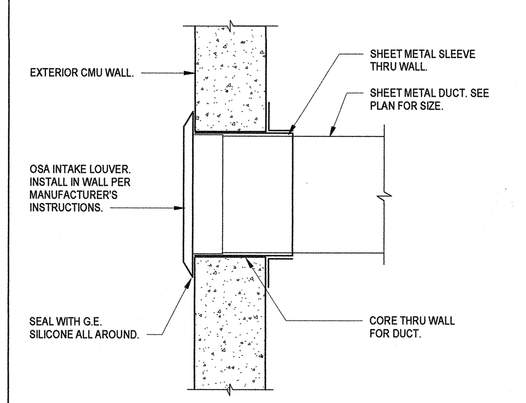
CONCRETE HOUSEKEEPING PAD N.T.S. 3



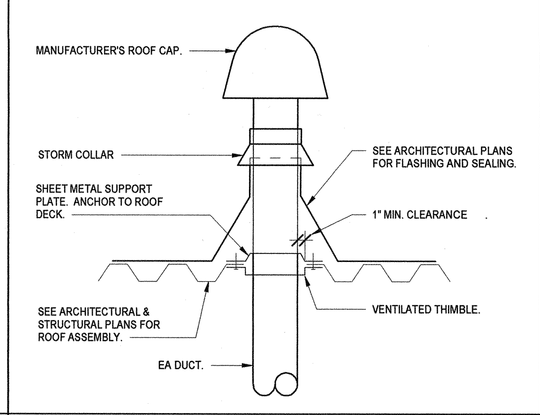
PIPE THRU WALL N.T.S. 9



CEILING MOUNTED EXHAUST FAN N.T.S. 4



SIDEWALL INTAKE LOUVER N.T.S. 10



ROOF CAP DETAIL N.T.S. 5

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STADIUM MODERNIZATION INCREMENT NO. 2
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
MECHANICAL DETAILS

PROJECT NO.
18-10748

DRAWING
M800-2

PLOT DATE: 12/5/2018 8:40:47 AM

PLOT DATE: 12/5/2018 8:40:49 AM

BUILDING ENERGY ANALYSIS REPORT

PROJECT:
Madera South HS Stadium Expansion
705 W. Pecan Ave.
Madera, CA 93637

Project Designer:
TETER, LLP
7535 N Palm Bluffs Ave, 201
Fresno, CA 93711
559-437-0887

Report Prepared by:
Teter Architects & Engineers
7335 N. Palm Ave
Fresno, CA 93720
5594370887

Job Number:
10748

Date:
12/5/2018

This EnergyPro computer program has been tested to perform Pre-rinse application in accordance to ANSI/RESNET/ICC 301-2014 Standard and is certified by the California Energy Commission for use with both the Residential and Nonresidential 2016 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC - www.energysoft.com

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1 Cover Page
2 Table of Contents
3 Form PRF-01-E Certificate of Compliance

Project Name:	Madera South HS Stadium Expansion	NRCC-PRF-01-E	Page 1 of 20
Project Address:	705 W. Pecan Ave. Madera 93637	Calculation Date/Time:	09:53, Wed, Dec 05, 2018
Compliance Scope:	New Construction	Input File Name:	10748-7(5D)-Additio

CF1R-PRF-01-E

A. PROJECT/ENTITY DESCRIPTION

1. Project Location (City)	Madera	8. Standards Version	Compliance2016
2. Climate Zone	13	9. Conditioned Softsheet Version(s)	EnergyPro 7.3
3. Project Type	Addition	10. Weather File	CA_FRESNO_723890_CZ2010.cwe
4. Total Conditioned Floor Area	2,137.67	11. Analysis Type	Performance
5. Total Unconditioned Floor Area	0	12. Permitted Scope of Work	NewConstruction
6. Total # of Stories (Habitable Above Grade)	1	13. Building Type(s)	NonresMisc
7. Total # of Dwelling Units		14. Site Type	NonresMisc

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²/yr)

BUILDING COMPLIES

	1. Energy Component	2. Standard Design TDV	3. Proposed Design TDV	4. Compliance Margin (TDV)	5. Percent Margin (TDV)	6. Standard Design Source Energy
Space Heating		101.94	71.62	30.32	29.8%	39.5%
Space Cooling		101.94	71.62	30.32	29.8%	39.5%
Indoor Fans		381.43	302.89	78.53	20.6%	43.8%
Heat Rejection		--	--	--	--	--
Pumps & Misc.		--	--	--	--	--
Domestic Hot Water		2.76	2.76	--	--	0.0%
Indoor Lighting		135.88	51.67	73.53	54.1%	37.9%
Receptacle		173.71	173.71	0.00	0.0%	0.0%
Process		182.35	182.35	0.0	0.0%	0.0%
Cooking		--	--	--	--	--
Parking		19.58	19.58	0.00	0.0%	0.0%
TOTAL		1,307.83	1,004.76	303	23.2%	31.5%

C. COMPLIANCE ENTRY & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components must be addressed for compliance. Scheme marked with an "X" must be included for the project.

Building Component	Compliance Form	Inspection of Mandatory Items ex
Envelope	☒ Performance: NRCC-ENV-04R-DETAILS (portion of the NRCC-PRF-01-E)	
	☐ Prescriptive: NRCC-ENV-04R-DETAILS (portion of the NRCC-PRF-01-E)	
Mechanical	☒ Performance: NRCC-MCH-04R-DETAILS (portion of the NRCC-PRF-01-E)	
	☐ Prescriptive: NRCC-PRF-01-E	
Domestic Hot Water	☐ N/A	
	☒ Performance: NRCC-SHW-01 (Page 2) of the NRCC-PRF-01-E)	
	☐ Prescriptive: NRCC-SHW-01 (Page 2) of the NRCC-PRF-01-E)	
Lighting (Indoor/Conditioned)	☐ N/A	
	☒ Performance: 10 (portion of the NRCC-PRF-01-E)	
	☐ Prescriptive: NRCC-PRF-01-E	
Covered Process:	☐ N/A	
Commercial Kitchens	☒ Performance: 10 (portion of the NRCC-PRF-01-E)	
	☐ Prescriptive: NRCC-PRF-01-E	
Solar Ready	☒ Solar Ready: §110.10	
	☐ Not Solar Ready	
Electrical Power Distribution	☐ Compliance: §130.5	
	☒ Exception: §130.5	
Pool/Spa Systems and Equipment	☒ N/A	
	☐ Compliance: §110.4	
Outdoor Lighting	☐ N/A	
	☒ Compliance: §130.2	
Signage	☐ N/A	
	☒ Compliance: §110.9	
Electrical Power Distribution	☐ N/A	
	☒ Compliance: §130.5	

D. EXCEPTIONAL CONDITIONS

This building does not include service water heating. Verify that service water heating is not installed and is not included in the design.

The proposed design includes a Photovoltaic System. Refer to the PV Compliance Report for compliance results. Refer to the Certificate of Installation (NRCI-PVI-01-E) for the requirement of §10-103 Automatic Shutdown Devices in Secondary Dwelling Units is installed.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

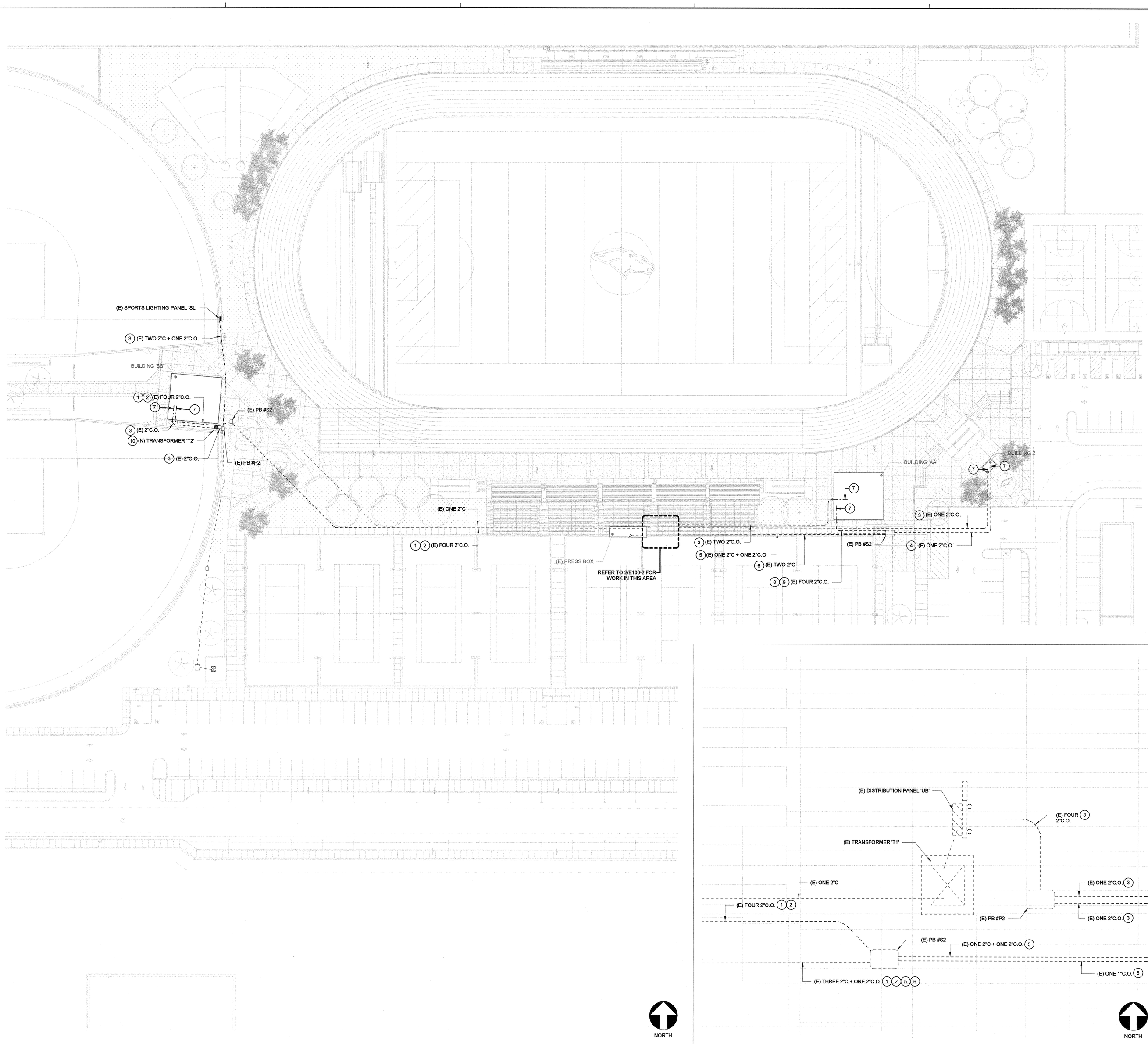
Project Name:	Madera South HS Stadium Expansion	NRCC-PRF-01-E	Page 2 of 20
Project Address:	705 W. Pecan Ave. Madera 93637	Calculation Date/Time:	09:53, Wed, Dec 05, 2018
Compliance Scope:	New Construction	Input File Name:	10748-7(5D)-Additio

CF1R-PRF-01-E

A. MECHANICAL VENTILATION AND SERVICE *(Adapted from 2016 ANSI/ASHRAE/IES 62.1-2016)*

| | | |

C:\Users\correy.stone\Documents\10748-E-MADERA SOUTH HS STADIUM EXPANSION-2017_corey.stone.rvt



ELECTRICAL SITE PLAN 1" = 30'-0" | 1

ENLARGED ELECTRICAL SITE PLAN Copy 1 1/2" = 1'-0" | 2

KEYNOTES

1. PROVIDE AND INSTALL ONE TYPE 'FNET' CABLE IN (E) UNDERGROUND FIRE ALARM CONDUIT.
2. PROVIDE AND INSTALL ONE TYPE 'FO-12' CABLE AND ONE TYPE 'T50' CABLE IN (E) UNDERGROUND SIGNAL CONDUIT.
3. PROVIDE AND INSTALL (N) FEEDER IN (E) UNDERGROUND POWER CONDUIT.
4. PROVIDE AND INSTALL NINE TYPE 'DS' CABLES, ONE TYPE 'T12' CABLE, ONE TYPE 'FNS' CABLE AND ONE TYPE 'FAS' CABLE IN (E) UNDERGROUND SIGNAL CONDUIT.
5. PROVIDE AND INSTALL ONE TYPE 'FAS' CABLE IN (E) UNDERGROUND FIRE ALARM CONDUIT.
6. PROVIDE AND INSTALL ONE TYPE 'FO-12' CABLE, ONE TYPE 'T50' CABLE AND ONE TYPE T12 CABLE IN (E) UNDERGROUND SIGNAL CONDUIT.
7. PICK UP (E) STUB AND EXTEND INTO BUILDING, REFER TO INCREMENT 1.
8. PROVIDE AND INSTALL ONE TYPE 'FO-12' CABLE, NINE TYPE DS CABLES AND ONE TYPE 'T50' CABLE IN (E) UNDERGROUND SIGNAL CONDUIT.
9. PROVIDE AND INSTALL TWO TYPE 'FAS' CABLE AND ONE TYPE 'FNS' CABLE IN (E) UNDERGROUND SIGNAL CONDUIT.
10. PROVIDE TRANSFORMER MOUNTING PER DETAIL 1/E600-2.

GENERAL NOTES

A. PROVIDE AND INSTALL ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM.

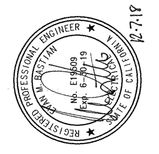
B. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINAL GRADE TO TOP OF CONDUIT.

C. SPECIAL PRECAUTION SHALL BE TAKEN WHEN TRENCHING TO LOCATE, PROTECT AND PRESERVE EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED.

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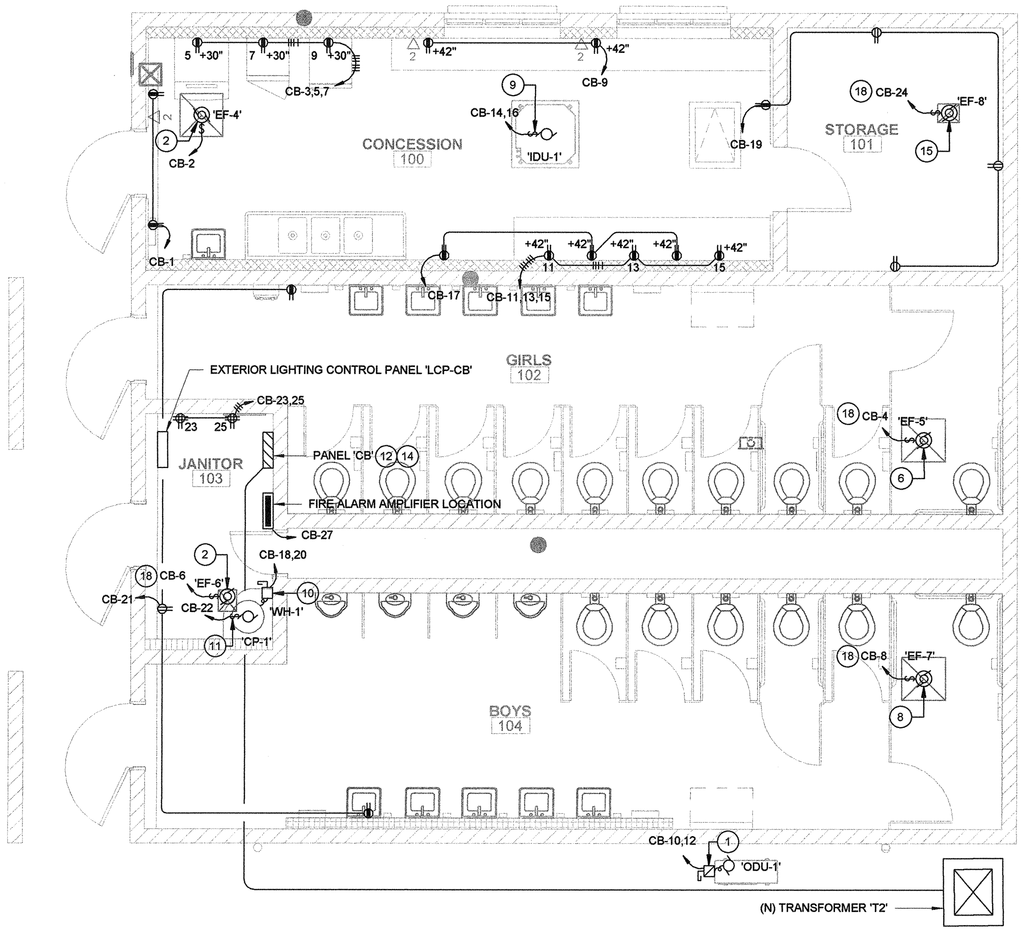
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PROJECT NO.
18-10748

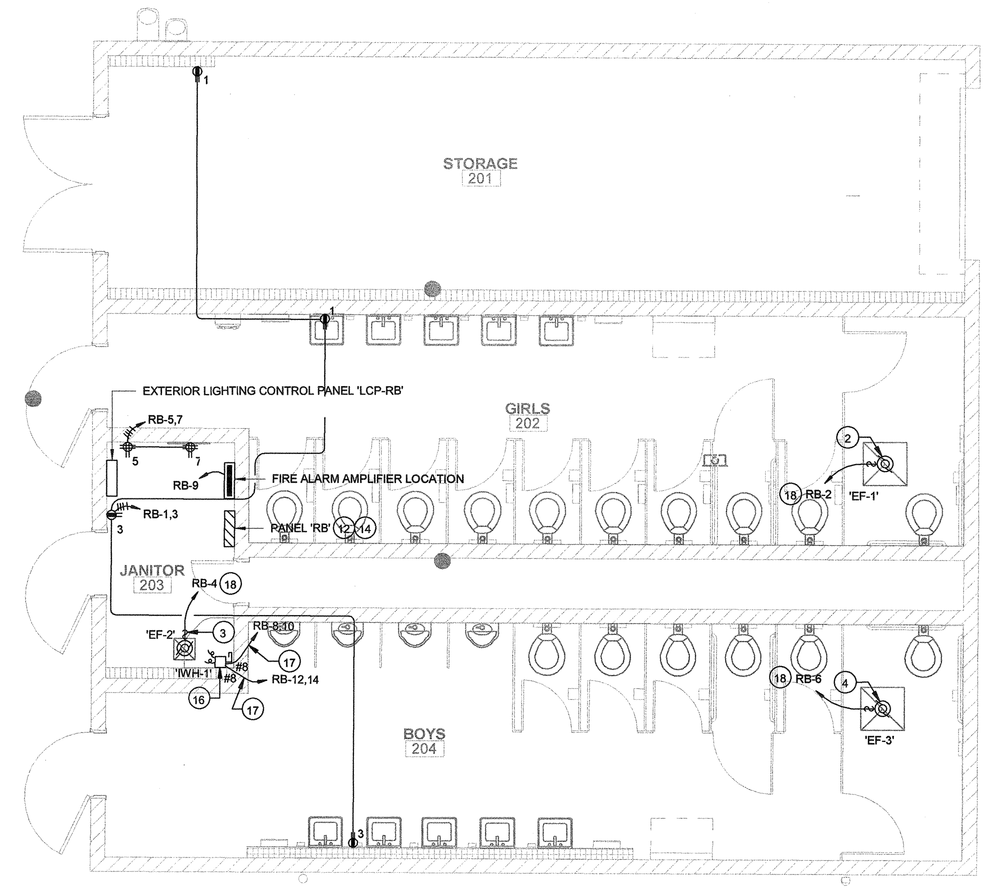
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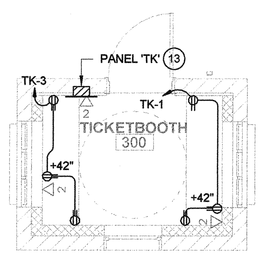
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POWER PLAN - CONCESSION BUILDING 'BB' 1/4" = 1'-0" 2



POWER PLAN - RESTROOM BUILDING 'AA' 1/4" = 1'-0" 1



POWER PLAN - TICKET BOOTH 'Z' 1/4" = 1'-0" 3

KEYNOTES

1. PROVIDE AND INSTALL HEAVY DUTY WEATHERPROOF 250V, 25A, 3-POLE FUSED DISCONNECT. PROVIDE POWER CONNECTION TO 208V, 1Φ, 11 MCA, 28 MOCP, OUDOOR UNIT 'ODU-1'.
2. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO EXHAUST FAN. PROVIDE POWER CONNECTION TO 115V, 1Φ, 285 WATT EXHAUST FAN 'EF-1'.
3. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO EXHAUST FAN. PROVIDE POWER CONNECTION TO 115V, 1Φ,128 WATT EXHAUST FAN 'EF-2'.
4. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO EXHAUST FAN. PROVIDE POWER CONNECTION TO 115V, 1Φ, 285 WATT EXHAUST FAN 'EF-3'.
5. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO EXHAUST FAN. PROVIDE POWER CONNECTION TO 115V, 1Φ, 224 WATT EXHAUST FAN 'EF-4'.
6. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO EXHAUST FAN. PROVIDE POWER CONNECTION TO 115V, 1Φ, 350 WATT EXHAUST FAN 'EF-5'.
7. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO EXHAUST FAN. PROVIDE POWER CONNECTION TO 115V, 1Φ, 128 WATT EXHAUST FAN 'EF-6'.
8. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO EXHAUST FAN. PROVIDE POWER CONNECTION TO 115V, 1Φ, 285 WATT EXHAUST FAN 'EF-7'.
9. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO INDOOR UNIT. PROVIDE POWER CONNECTION TO 208V, 1Φ, 1 MCA, 15 MOCP INDOOR UNIT 'IDU-1'.
10. PROVIDE AND INSTALL GENERAL DUTY 250V, 30A, 3-POLE NON-FUSED DISCONNECT ADJACENT TO WATER HEATER. PROVIDE POWER CONNECTION TO 208V, 1Φ, 9000 W WATER HEATER 'WH-1'.
11. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO CIRCULATING PUMP. PROVIDE POWER CONNECTION TO 120V, 1Φ, 1/2HP INDOOR UNIT 'CP-1'.
12. PROVIDE AND INSTALL 20A, 1-POLE CIRCUIT BREAKER AT PANEL FOR PROTECTION OF (N) FIRE ALARM TRANSPONDER PANEL BRANCH CIRCUIT. CIRCUIT BREAKER SHALL BE RED IN COLOR, BE LABELED "FIRE ALARM" AND SHALL HAVE A MECHANICAL LOCK-ON DEVICE.
13. PROVIDE PANEL MOUNTING PER DETAIL 11/E600-2.
14. PROVIDE PANEL MOUNTING PER DETAIL 6/E600-2.
15. PROVIDE AND INSTALL AC SNAP SWITCH DISCONNECT ADJACENT TO EXHAUST FAN. PROVIDE POWER CONNECTION TO 115V, 1Φ, 80 WATT EXHAUST FAN 'EF-8'.
16. PROVIDE AND INSTALL GENERAL DUTY 250V, 60A, 4-POLE NON-FUSED DISCONNECT ADJACENT TO INSANTANEOUS WATER HEATER. PROVIDE TWO POWER CONNECTIONS TO 208V, 1Φ, 16800W TOTAL, DUAL-ELEMENT INSTANTANEOUS WATER HEATER 'IWH-1'.
17. ONE 1"C, 2#8 CU THWN, 1#10 CU GND.
18. ROUTE EXHAUST FAN BRANCH CIRCUIT THROUGH LIGHTING CONTROL SYSTEM PLUG LOAD RELAY FOR ON/OFF CONTROL IN CONNECTION WITH ROOM AREA LIGHTS.

GENERAL NOTES

A. CONDUIT AND CONDUCTORS FOR NEW OUTLETS SHALL BE CONCEALED, U.O.N.

B. PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND/OR ROOFS SHALL BE SEALED.

C. ALL 120V, 15A AND 20A RECEPTACLES WITHIN KITCHENS AND RESTROOMS SHALL BE GFCI TYPE RECEPTACLES. IN ALL OTHER SPACES, 120V, 15A AND 20A RECEPTACLES WITHIN 6' OF SINKS OR FAUCETS SHALL BE GFCI TYPE RECEPTACLES.

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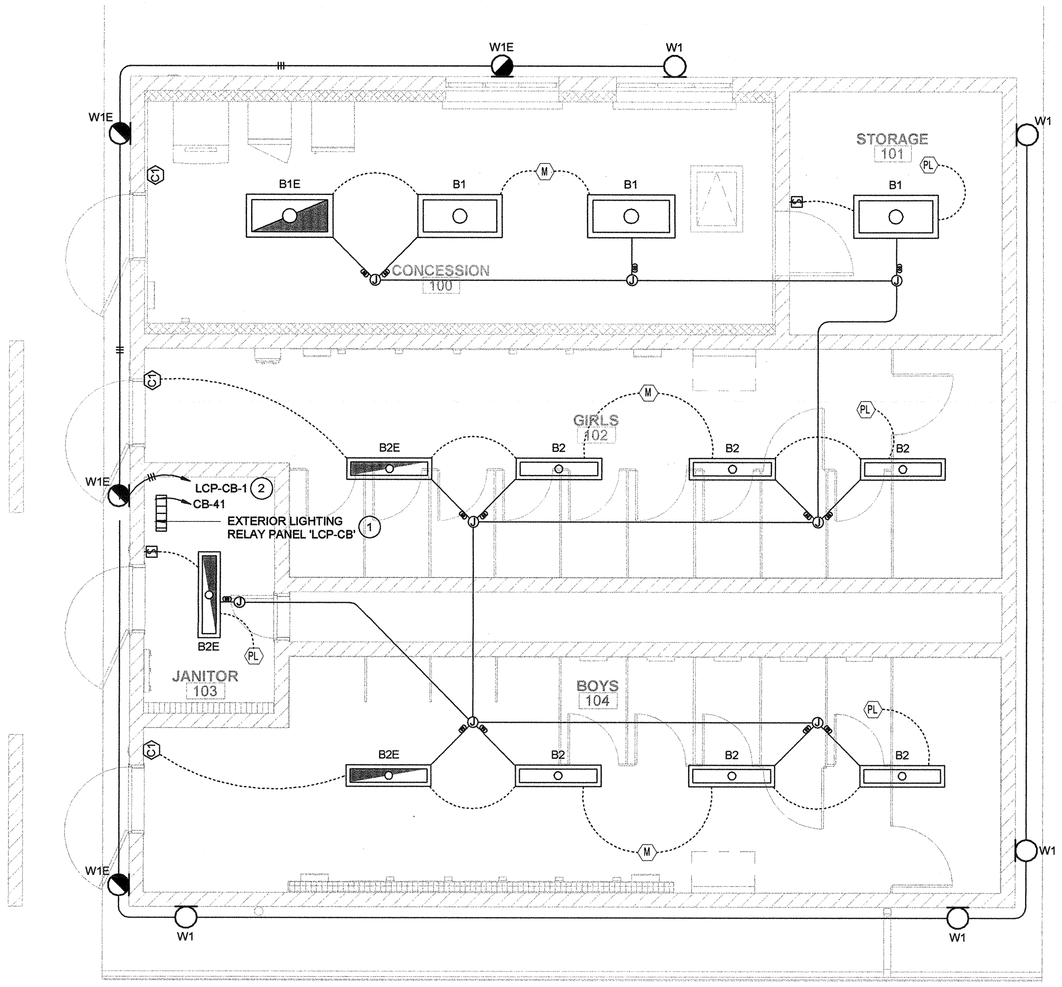
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POWER PLANS

PROJECT NO.
18-10748

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E200-2

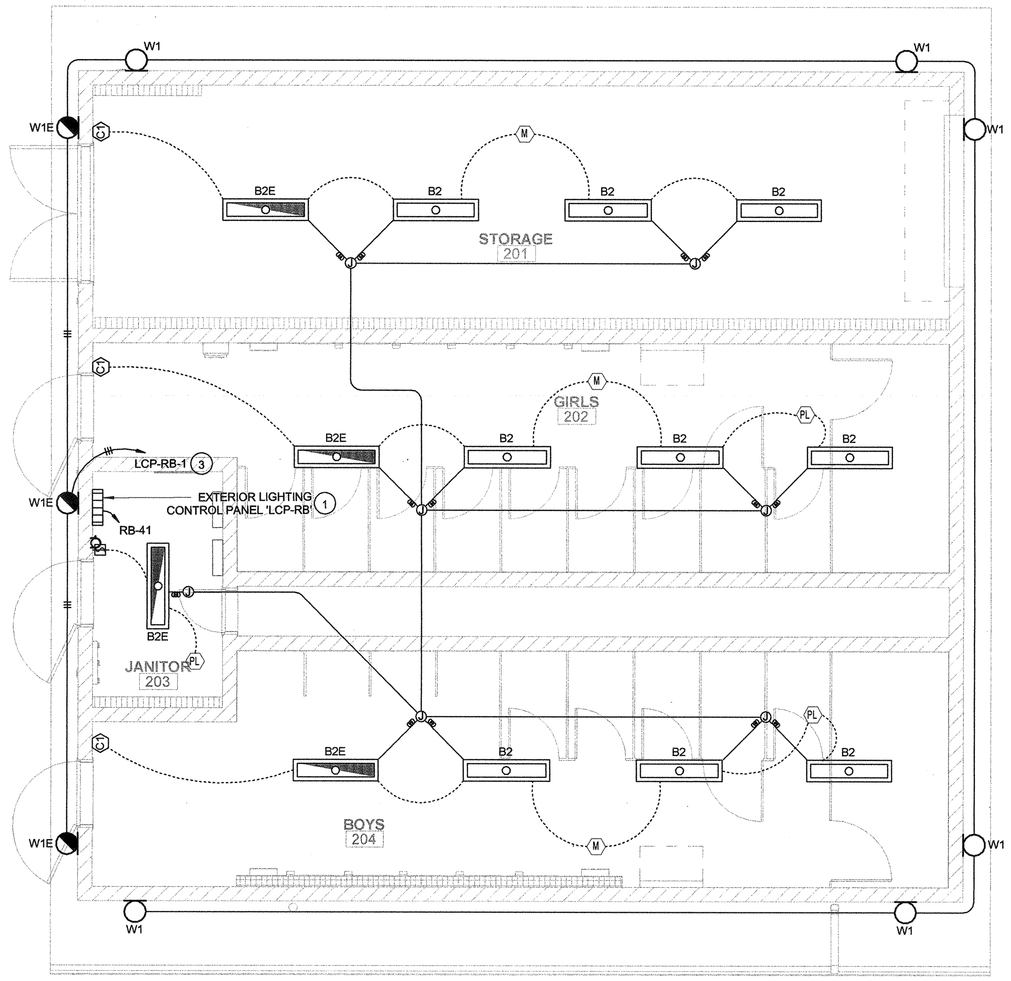
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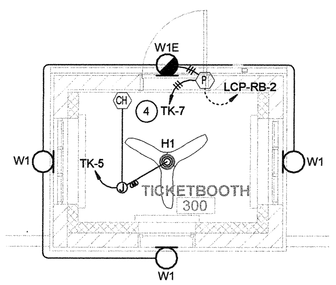
NORTH

LIGHTING PLAN - CONCESSION BUILDING 'BB' 1/4" = 1'-0" 2



NORTH

LIGHTING PLAN - RESTROOM BUILDING 'AA' 1/4" = 1'-0" 1



NORTH

LIGHTING PLAN - TICKET BOOTH 'Z' 1/4" = 1'-0" 3

KEYNOTES

1. PROVIDE AND INSTALL 4-CIRCUIT EXTERIOR LIGHTING CONTROL PANEL, ACUITY #ARP-INTENCO8-NLT-4SPR-NVOLT-SC-SM. ROUTE EXTERIOR LIGHTING BRANCH CIRCUITS THROUGH RELAYS FOR ON/OFF CONTROL THROUGH NETWORK LIGHTING SYSTEM. COORDINATE TIME SCHEDULE WITH OWNER.
2. PROVIDE UNSWITCHED HOT CONDUCTORS FROM BRANCH CIRCUIT 'CB-39' FOR CONNECTION TO EMERGENCY LIGHTING.
3. PROVIDE UNSWITCHED HOT CONDUCTORS FROM BRANCH CIRCUIT 'RB-39' FOR CONNECTION TO EMERGENCY LIGHTING.
4. PROVIDE UNSWITCHED HOT CONDUCTORS FROM BRANCH CIRCUIT 'TK-7' FOR CONNECTION TO EMERGENCY LIGHTING.
5. PROVIDE ONE TYPE 'DS' CABLE IN SITE SIGNAL CONDUIT TO RESTROOM BUILDING FOR CONTROL OF EXTERIOR LIGHTING RELAY THROUGH nLIGHT NETWORK AT RESTROOM BUILDING.

LIGHTING WIRING LEGEND

——— LIGHTING BRANCH CIRCUIT IN EMT CONDUIT CONSISTING OF THE FOLLOWING BRANCH CIRCUIT CONDUCTORS:
1. HOT - 1#12 CU THHN (BROWN, ORANGE OR YELLOW)
2. NEUTRAL - 1#12 CU THHN (WHITE WITH COLORED STRIPE)
3. EQUIPMENT GROUNDING - 1#12 CU THHN (GREEN)

····· CLASS 2 CATEGORY 5E PLENUM RATED CABLE GREEN IN COLOR WITH RJ45 CONNECTORS ON EACH END.

LIGHTING SYMBOL LEGEND

- (M) NETWORK CEILING MOUNTED OCCUPANCY SENSOR - nCM PDT 10
- (C1) SINGLE-ZONE NETWORK DIMMING MANUAL CONTROL STATION AT +48" TO TOP OF OUTLET BOX - nPODM DX
- (CH) FAN/LIGHT DIMMING MANUAL CONTROL STATION WITH INTERGRAL OCCUPANCY SENSOR AT +48" TO TOP OF OUTLET BOX - HAIKU WALL CONTROLLER WITH SenseME TECHNOLOGY
- [S] NETWORK WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR AT +48" TO TOP OF OUTLET BOX
- (P) NETWORK DIMMING CONTROL RELAY
- (PL) NETWORK PLUG LOAD CONTROL RELAY

GENERAL NOTES

A. CIRCUITS SUPPLYING EMERGENCY LIGHTING FIXTURES SHALL BE SUPPLIED BY A CONTROLLED HOT CONDUCTOR AND A CONSTANT HOT CONDUCTOR OF THE SAME BRANCH CIRCUIT.

B. EXIT SIGNAGE AND WALL MOUNTED EMERGENCY LIGHTING UNITS SHALL BE SUPPLIED BY AN UNSWITCHED HOT CONDUCTOR.

C. REFER TO ARCHITECTURAL SHEETS FOR ELEVATIONS OF WALL MOUNTED LIGHTING FIXTURES.

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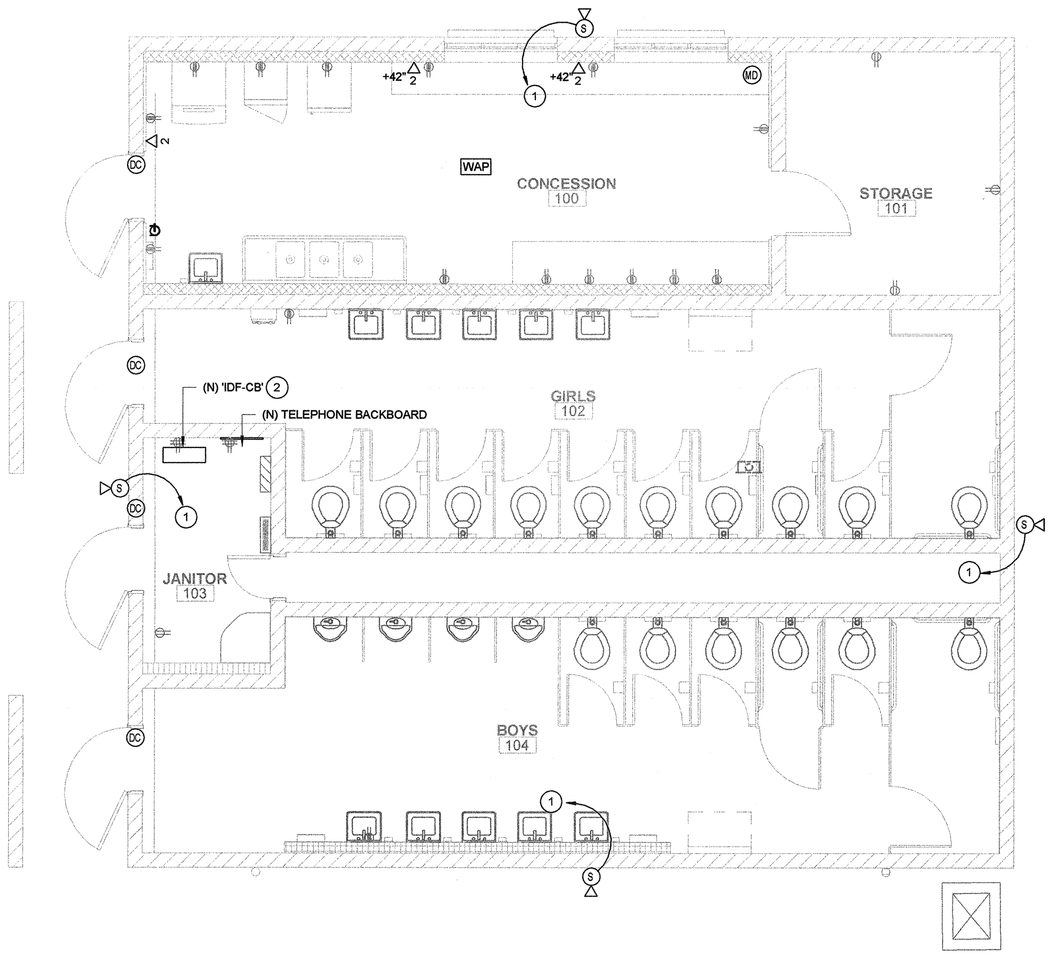
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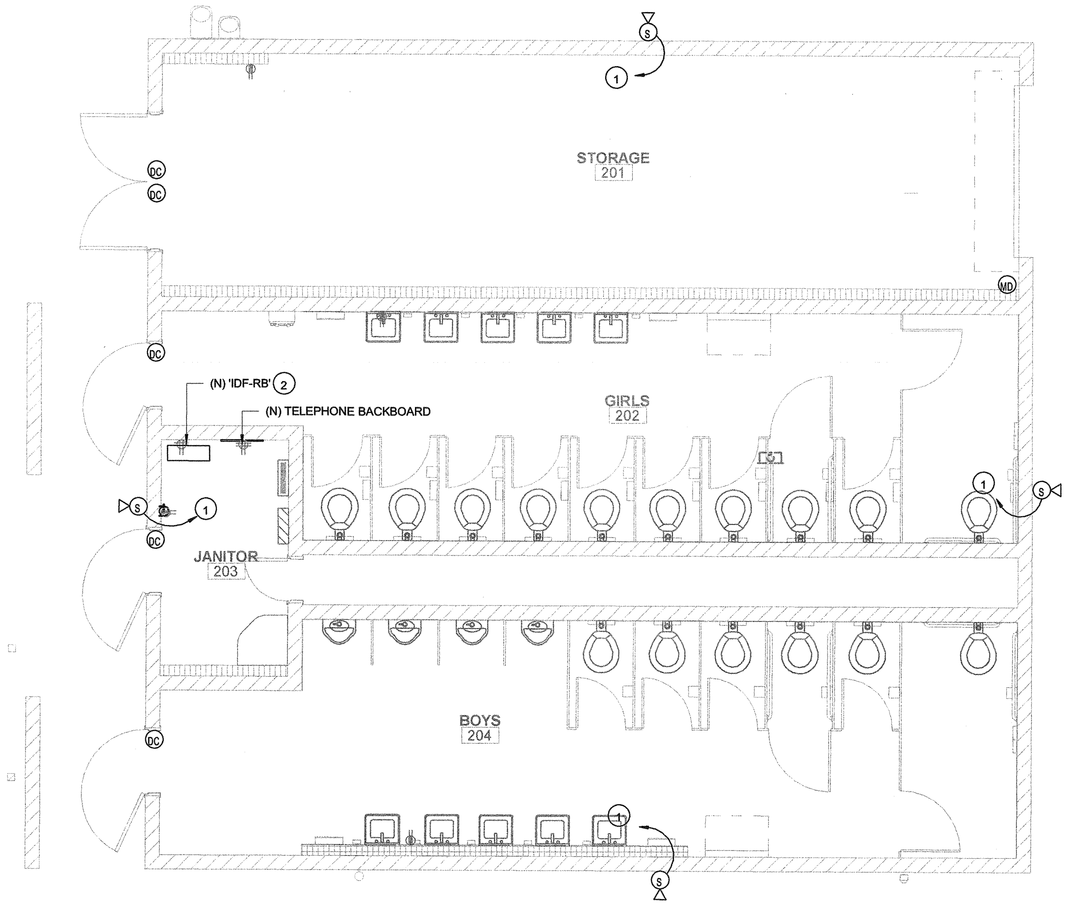
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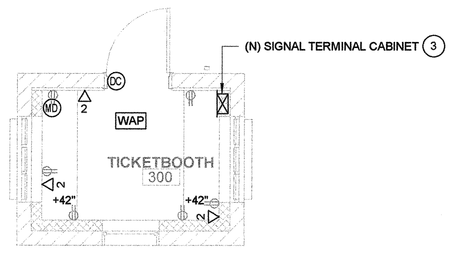
NORTH

SIGNAL PLAN - CONCESSION BUILDING 'BB' 1/4" = 1'-0" 2



NORTH

SIGNAL PLAN - RESTROOM BUILDING 'AA' 1/4" = 1'-0" 1



NORTH

SIGNAL PLAN - TICKET BOOTH 'Z' 1/4" = 1'-0" 4

KEYNOTES

1. PROVIDE ONE TYPE 'S' CABLE TO TELEPHONE BACKBOARD.
2. PROVIDE 2U VERTICAL WALL RACK, CHATSWORTH THINLINE II WALL-MOUNT CABINET #13050-712, AT PLYWOOD BACKBOARD. MOUNT IDF PER DETAIL 13/E600-2.
3. PROVIDE SIGNAL TERMINAL CABINET MOUNTING PER DETAIL 13/E600-2

GENERAL NOTES

A. EACH TELECOMMUNICATION CABLE SHALL BE HOMERUN FROM THE TELECOMMUNICATION OUTLET TO A PATCH PANEL LOCATED IN THE TELECOMMUNICATION ROOM.

B. TELECOMMUNICATION CABLES SHALL BE NEATLY BUNDLED WITH VELCRO STRAPS AT 36"O.C.

C. TELECOMMUNICATION CABLES SHALL BE INDEPENDENTLY SUPPORTED FROM J-HOOKS WITHIN THE ACCESSIBLE ATTIC SPACE WHERE THEY ARE NOT WITHIN CONDUIT OR SUPPORTED ON CABLE TRAY.

D. TELECOMMUNICATION CABLES SHALL BE TERMINATED WITH MODULAR JACKS ON PATCH PANELS IN THE TELECOMMUNICATION ENCLOSURE AND ON MODULAR JACKS AT THE TELECOMMUNICATION OUTLETS.

E. TELECOMMUNICATION CABLE SERVING WIRELESS ACCESS POINTS SHALL BE TERMINATED WITH PLUG TYPE CONNECTORS AT THE LOCATION OF THE WIRELESS ACCESS POINT.

F. SECURITY AND ACCESS SYSTEM ROUGH-IN REQUIREMENTS:

1. AT DOOR CONTACT LOCATIONS - DRILL 1/2" HOLE IN STRIKE SIDE OF DOOR FRAME AND THROUGH HEADER, INSTALL A PULL WIRE BETWEEN OPENING IN DOOR FRAME AND ACCESSIBLE ATTIC.
2. AT MOTION DETECTOR LOCATIONS - INSTALL A SINGLE-GANG OUTLET BOX WITH A SINGLE-GANG TRIM-RING FLUSH MOUNED IN CEILING.

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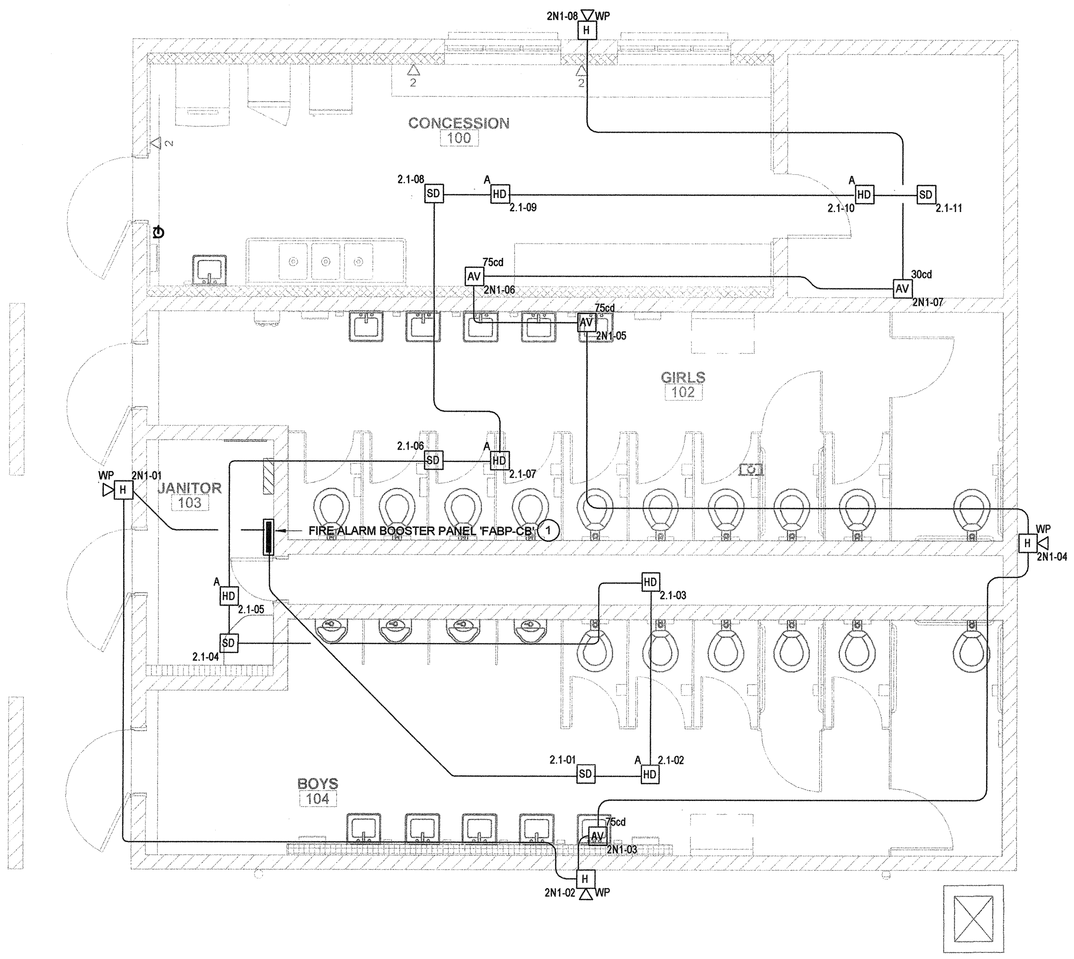
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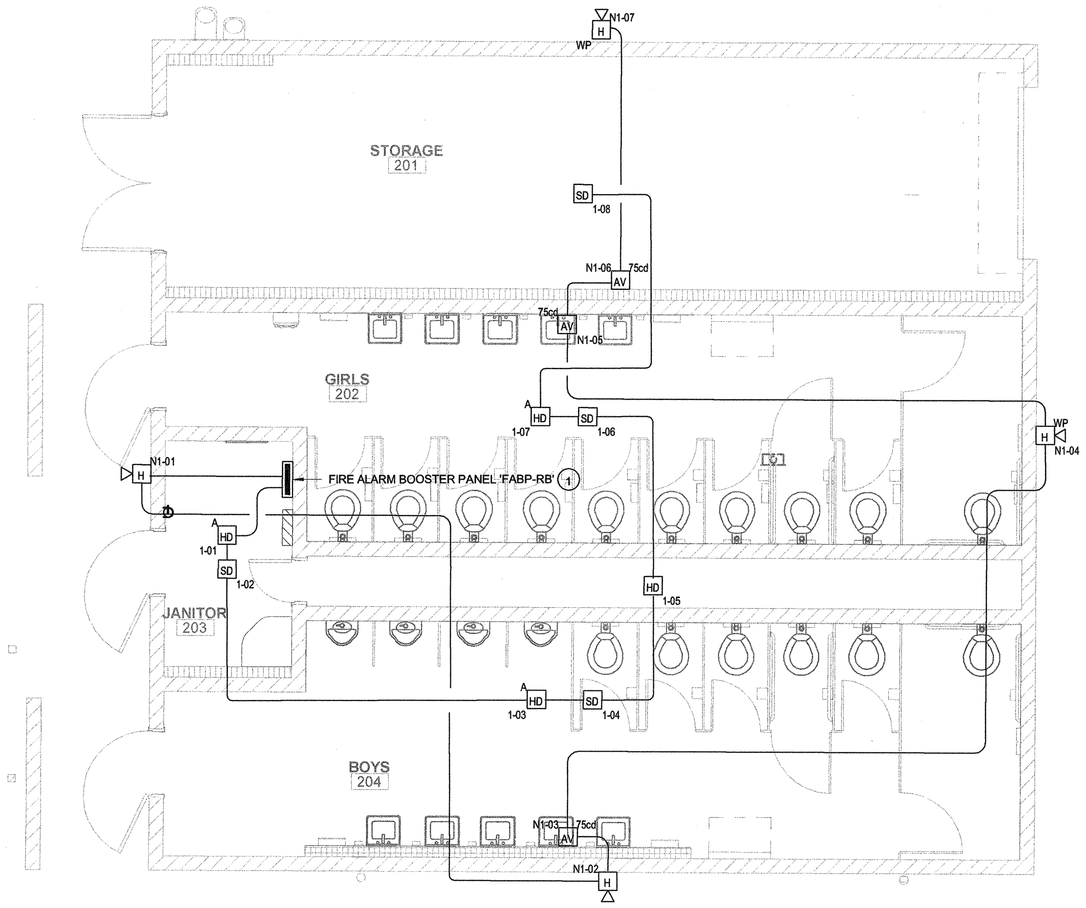
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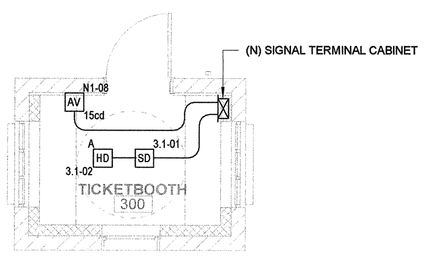
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FIRE ALARM PLAN - CONCESSION BUILDING 'BB' 1/4" = 1'-0" 2



NORTH

FIRE ALARM PLAN - RESTROOM BUILDING 'AA' 1/4" = 1'-0" 1



NORTH

FIRE ALARM PLAN - TICKET BOOTH 'Z' 1/4" = 1'-0" 3

KEYNOTES

1. PROVIDE FIRE ALARM BOOSTER PANEL MOUNTING PER DETAIL 14/E600-2.

FIRE ALARM INSTALLATION NOTES

A. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL PULL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY, AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.

B. ALL DRAWINGS ARE DIAGRAMMATIC ONLY, AND SHALL NOT BE USED IN DETERMINING ACTUAL CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY ALL CONDUIT ROUTING CONDITIONS AT THE PROJECT SITE AS CONSTRUCTION PROGRESSES.

C. ALL FIRE ALARM DATA, COMMUNICATIONS AND INITIATING CIRCUITS SHALL BE INSTALLED UTILIZING SOLID COPPER CONDUCTORS WITH OUTER COVERING COLORS PER THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL SMOKE DAMPER AND REMOTE TROUBLE INDICATOR CIRCUITS SHALL BE YELLOW. ALL CIRCUITS SHALL BE INDIVIDUALLY LABELED, BOTH AT THE DEVICE END AND AT THE SIGNAL TERMINAL CABINET AND/OR FIRE ALARM MASTER PANEL TERMINATION POINT.

D. ALL FIRE ALARM CIRCUITS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. "T" TAPPING IS ALLOWED ONLY IN INITIATION LOOPS CONNECTING ADDRESSABLE DEVICES AND ONLY UNDER THESE CONDITIONS. UNDER NO CIRCUMSTANCES SHALL "T" TAPPING BE PERMITTED BETWEEN CONVENTIONAL DEVICES.

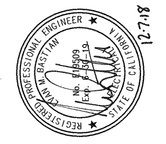
E. SMOKE DETECTORS SHALL BE INSTALLED AWAY FROM AIR SUPPLY GRILLES AT A MINIMUM DISTANCE OF 3' PER NFPA 72 29.8.3.4 OR GREATER AS RECOMMENDED BY THE MANUFACTURER.

F. CONTRACTOR SHALL SYNCHRONIZE TWO OR MORE STROBES IN ONE ROOM AND TWO OR MORE SPEAKERS WITHIN HEARING OF EACH OTHER.

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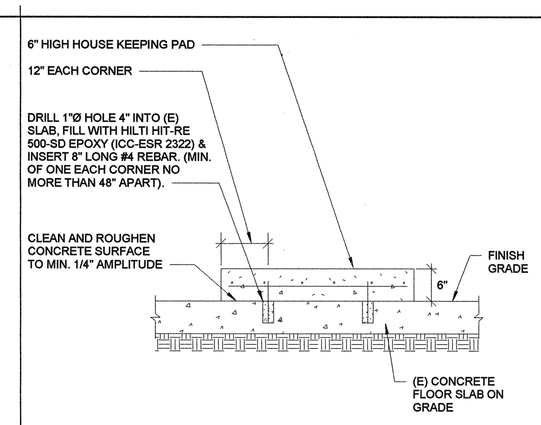
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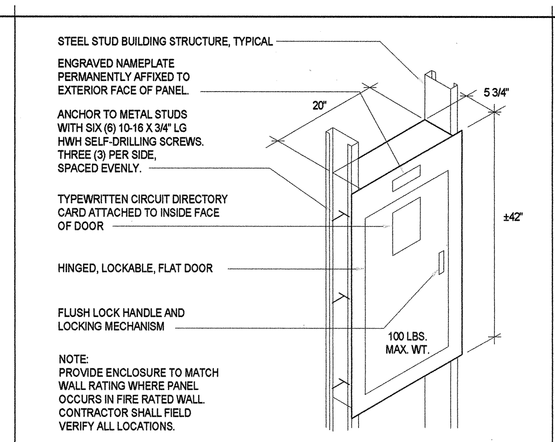
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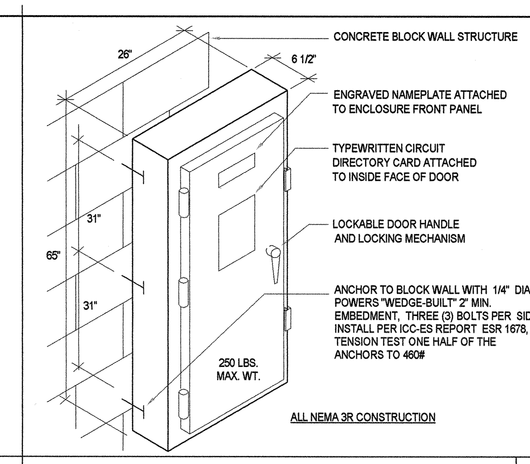
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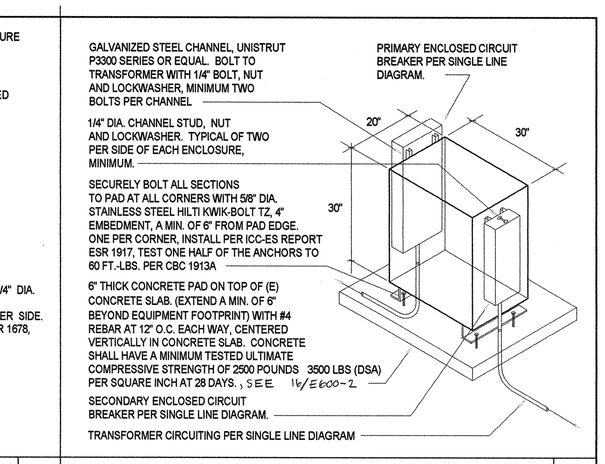
HOUSEKEEPING PAD ON (E) SLAB — N.T.S. — 16



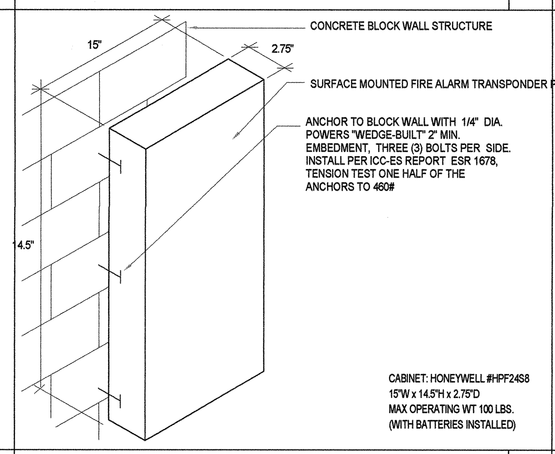
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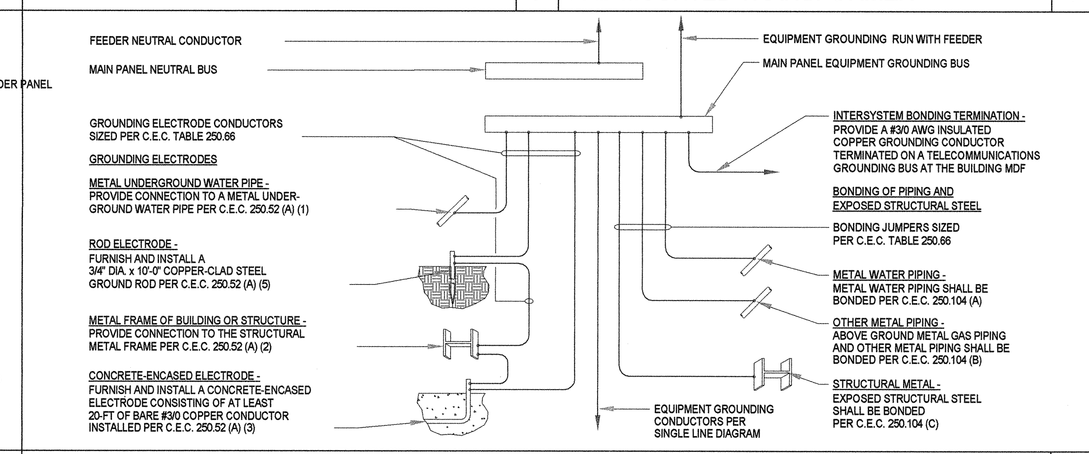
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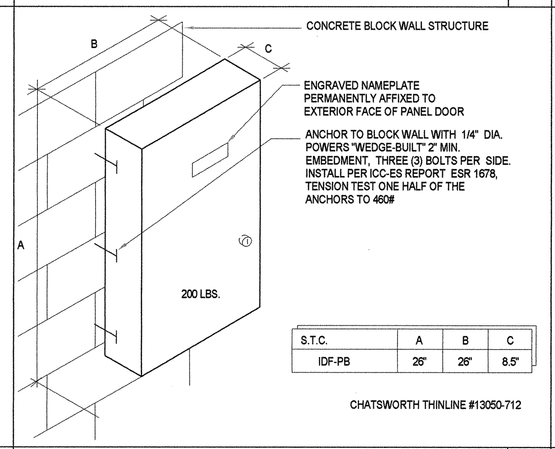
PAD MOUNTED TRANSFORMER — N.T.S. — 1



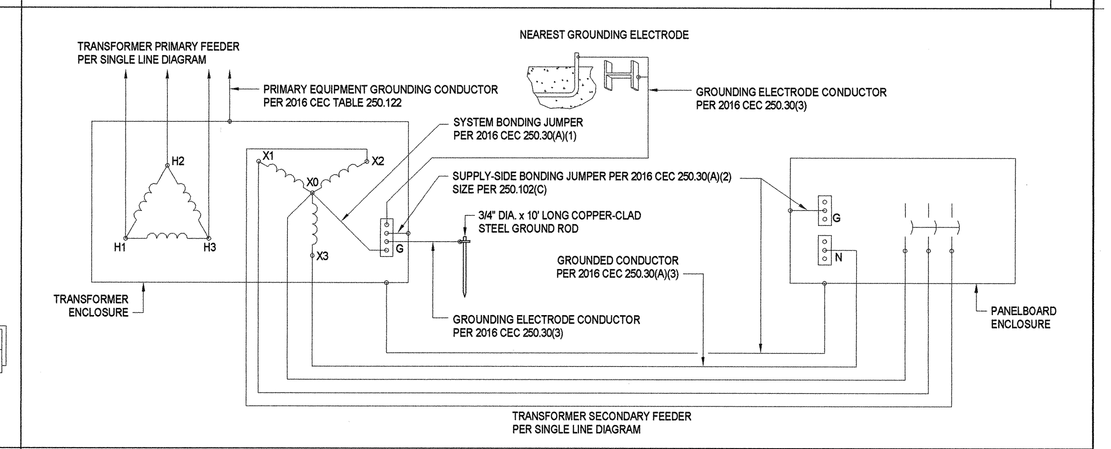
FIRE ALARM PANEL MOUNTING — N.T.S. — 12



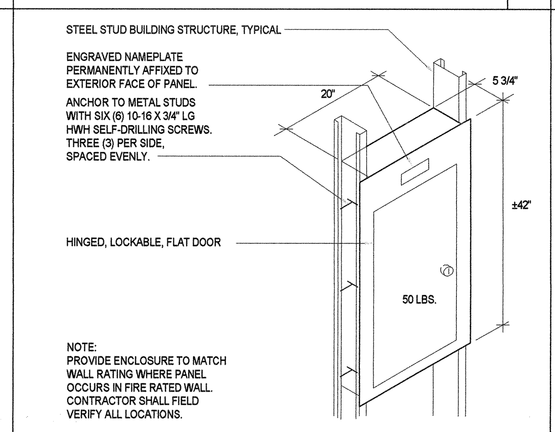
GROUNDING ELECTRODE SYSTEM — N.T.S. — 2



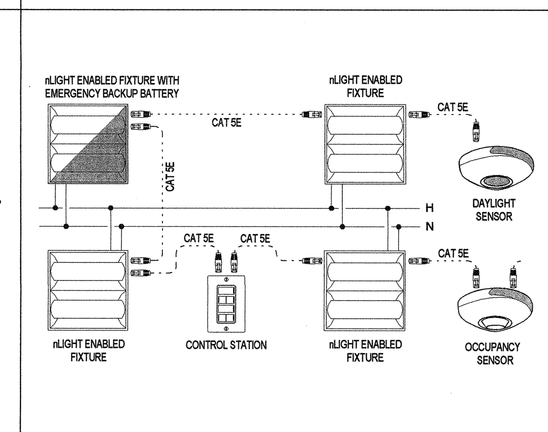
IDF MOUNTING — N.T.S. — 13



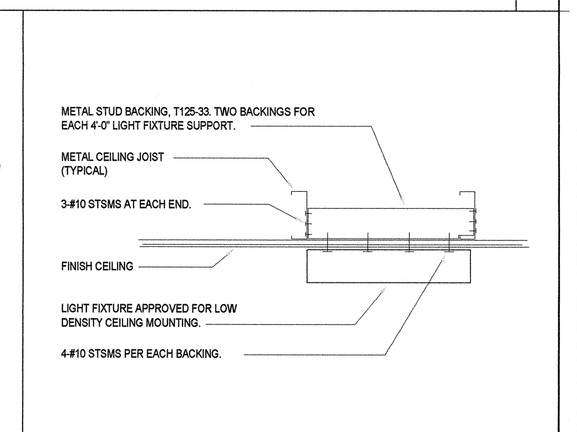
TRANSFORMER GROUNDING — N.T.S. — 3



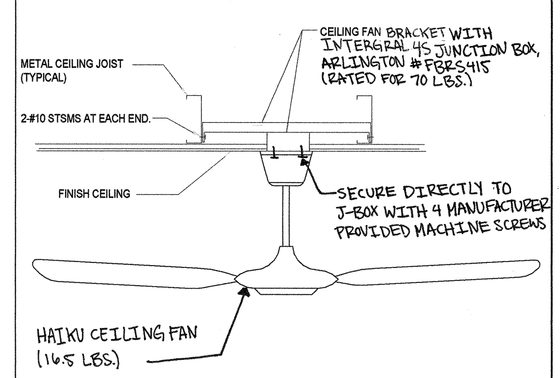
SIGNAL TC MOUNTING — N.T.S. — 14



LIGHTING CONTROLS - nLIGHT ENABLED — T.S. — 9



SURFACE FIXTURE MOUNTING — N.T.S. — 4



CEILING FAN MOUNTING DETAIL — N.T.S. — 5

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AC FLS SS KG
DATE: 11 DEC 2018

STRUCTURAL ENGINEER — STATE OF CALIFORNIA — 12-7-18

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ARCHITECTS ENGINEERS CONNECTED
TETER

STADIUM MODERNIZATION INCREMENT NO. 1
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

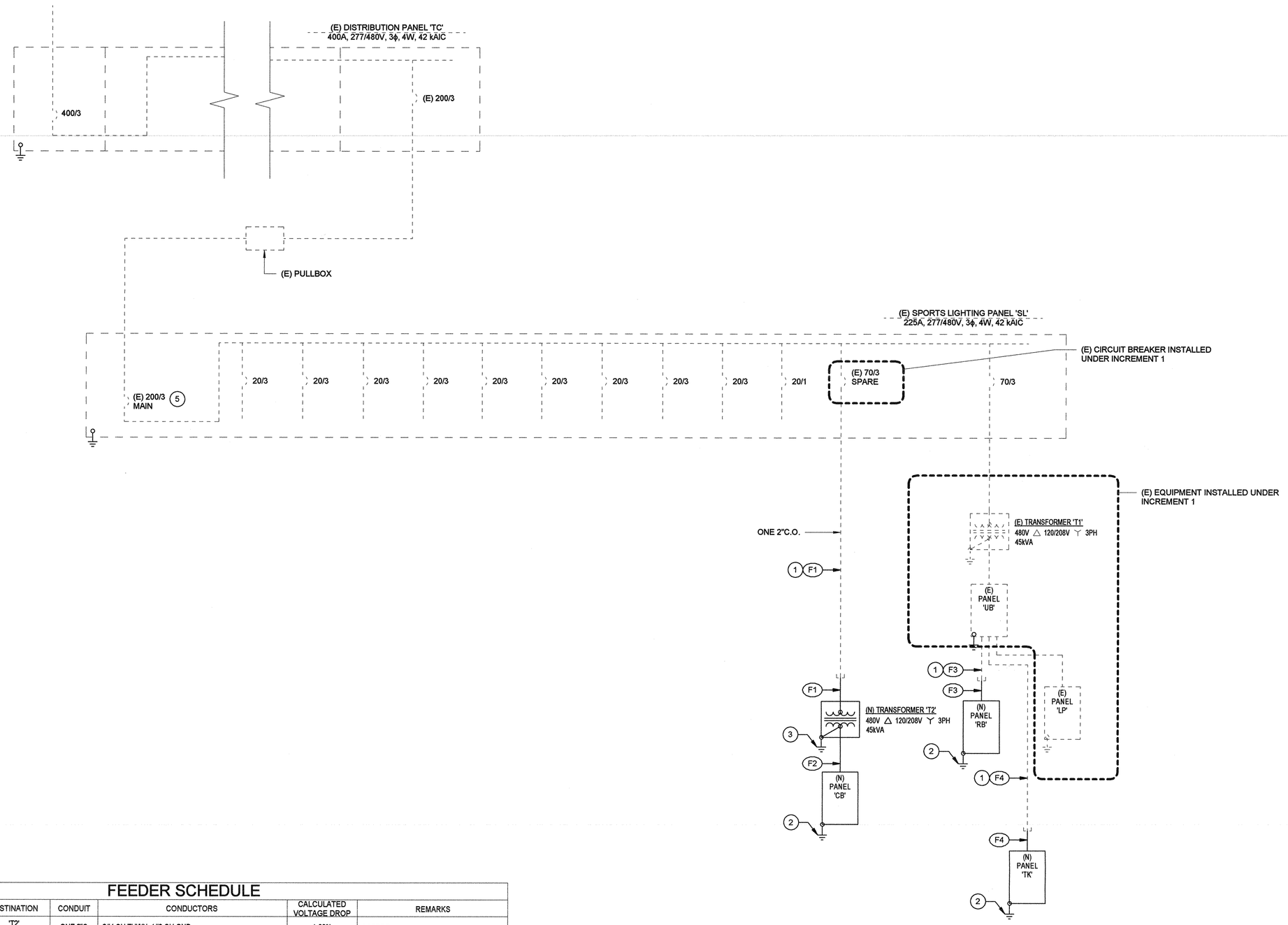
DRAWING TITLE
ELECTRICAL DETAILS

PROJECT NO.
18-10748

DRAWING
E600-2

PLOT DATE: 12/7/2018 1:11:23 PM

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FEEDER SCHEDULE						
FEEDER	ORIGIN	DESTINATION	CONDUIT	CONDUCTORS	CALCULATED VOLTAGE DROP	REMARKS
F1	'SL'	'T2'	ONE 2"C	3#4 CU THWN, 1#8 CU GND	1.60%	FEEDER
F2	'T2'	'CB'	ONE 2"C	4#2 CU THWN, 1#4 CU GND	1.15%	FEEDER WITH SUPPLY SIDE BONDING JUMPER
F3	'UB'	'RB'	ONE 3"C	4#1 CU THWN, 1#4 CU GND	2.74%	FEEDER UPSIZED FOR VOLTAGE DROP
F4	'UB'	'TB'	ONE 2"C	4#2 CU THWN, 1#4 CU GND	2.76%	FEEDER UPSIZED FOR VOLTAGE DROP

KEYNOTES

1. INSTALL FEEDER IN (E) CONDUIT.
2. PANEL GROUND PER DETAIL 2/E600.
3. TRANSFORMER GROUND PER DETAIL 3/E600.

GENERAL NOTES

A. CIRCUIT BREAKERS SUPPLYING CLASS 1 TRANSFORMERS SHALL BE LOCKABLE IN THE OFF POSITION.

B. ARC-FLASH HAZARD WARNING LABELS SHALL BE PROVIDED AT ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS AND PANELBOARDS IN ACCORDANCE WITH CEC 110.16.

C. CIRCUIT IDENTIFICATION - A TYPEWRITTEN CIRCUIT DIRECTORY SHALL BE PROVIDED AT EACH PANELBOARD AND SWITCHBOARD IN ACCORDANCE WITH CEC ARTICLE 408.4(A). THE CONTRACTOR SHALL DEVELOP AND PREPARE THE CIRCUIT IDENTIFICATION DESCRIPTION BASED ON THE AS-BUILT CONDITION.

D. SOURCE OF SUPPLY IDENTIFICATION - ALL SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS SHALL HAVE A TYPEWRITTEN LABEL APPLIED INDICATING THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER CEC ARTICLE 408.4(B).

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STADIUM MODERNIZATION INCREMENT NO. 1
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE: SINGLE LINE DIAGRAM

PROJECT NO. 18-10748

DRAWING E700-2

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FIRE ALARM SYSTEM DESCRIPTION

THE FIRE ALARM SYSTEM DESCRIBED BY THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS IS A MANUAL AND AUTOMATIC SYSTEM. THIS SYSTEM UTILIZES SMOKE DETECTORS ON CEILINGS AND IN THE ROOMS HOUSING THE FIRE ALARM SYSTEM EQUIPMENT WITH HEAT DETECTORS IN ATTIC SPACES. THE SYSTEM IS ADDRESSABLE AND IS WIRED CLASS 'B' WITHIN THE BUILDINGS AND CLASS 'B' BETWEEN BUILDINGS.

FIRE ALARM APPROVAL

THE FIRE ALARM SYSTEM DESIGN IS A "COMPLETE PLAN SUBMITTAL" PER DSA FIRE ALARM SUBMITTAL GUIDELINES. THE CONTRACTOR SHALL INSTALL THE SYSTEM AS SHOWN AND AS HEREIN SPECIFIED. IF ANY SUBSTITUTION OF FIRE ALARM EQUIPMENT IS TO BE REQUESTED, SUCH REQUEST SHALL BE MADE A MINIMUM OF TWO WEEKS PRIOR TO PROJECT BID DATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE SUBSTITUTION PER THE DSA GUIDELINES AND SHALL PAY ALL ADDITIONAL COSTS REQUIRED TO ACCOMMODATE REVIEW OF THE SUBSTITUTED FIRE ALARM SYSTEM BY DSA, WHETHER OR NOT SUCH APPROVAL IS GIVEN. THE CONTRACTOR'S SUBMITTAL SHALL INCLUDE MANUFACTURER'S CATALOG CUT SHEETS AND CSFM LISTING SHEETS FOR THE INDIVIDUAL COMPONENTS COMPRISING THE SUBSTITUTED FIRE ALARM SYSTEM, BATTERY LOAD CALCULATIONS AND VOLTAGE DROP CALCULATIONS FOR EACH SIGNALING CIRCUIT.

APPLICABLE CODES AND STANDARDS

2016 CA BUILDING CODE - PARTS 1 & 2, TITLE 24, CCR
(2015 IBC AND CALIFORNIA AMENDMENTS)
2016 CA ELECTRICAL CODE - PART 3, TITLE 24, CCR
(2014 NEC AND CALIFORNIA AMENDMENTS)
2016 CA MECHANICAL CODE - PART 4, TITLE 24, CCR
(2015 UMC AND CALIFORNIA AMENDMENTS)
2016 CA PLUMBING CODE - PART 5, TITLE 24, CCR
(2015 UPC AND CALIFORNIA AMENDMENTS)
2016 CA FIRE CODE - PART 9, TITLE 24, CCR
(2015 IFC AND CALIFORNIA AMENDMENTS)
2016 CA REFERENCE STANDARDS CODE - PART 12, TITLE 24, CCR
2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS AND 2016 CALIFORNIA AMENDMENTS
2016 NFPA 72, NATIONAL FIRE ALARM CODE, AND 2016 CALIFORNIA AMENDMENTS
PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS - TITLE 19, CCR
DSA GUIDELINES FOR FIRE AND LIFE SAFETY SYSTEMS, DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES.

FIRE ALARM GENERAL NOTES

1. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATERTIGHT FITTINGS. (CEC 110.11 AND CEC 300.6)
2. OUTLETS ON OPPOSITE SIDES OF A FIRE RATED WALL SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL SPACING OF TWO FEET.
3. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
   a. PULL STATION - OPERABLE PART OF A MANUALLY ACTUATED ALARM INITIATING DEVICE SHALL BE NOT LESS THAN 42" FROM FINISHED FLOOR; AND TOP OF BOX SHALL NOT BE MORE THAN 48" FROM FINISHED FLOOR. (CBC 11B 308.1.1, NFPA 72 17.14.5)
   b. INTERIOR AUDIBLE NOTIFICATION APPLIANCE - AT LEAST 90" TO THE TOP OF DEVICE ABOVE FINISHED FLOOR AND NOT LESS THAN 6" BELOW FINISHED CEILING. (NFPA 72 18.4.8.1)
   c. WALL-MOUNTED STROBE OR SPEAKER/STROBE - AT LEAST 80" TO BOTTOM OF LENS AND NOT GREATER THAN 96" TO TOP OF LENS ABOVE FINISHED FLOOR. (NFPA 72 18.5.5.1)
4. AUDIBLE SIGNAL DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF AT LEAST 15 dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT TEN FEET, OR MORE THAN 110 dBA IN TOTAL. (NFPA 72 18.4.3.1, 18.4.1.2 AND CFC 907.5.2.1.2)
5. AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS. (CFC 907.5.2.1.1)
6. AUDIBLE DEVICES SHALL SOUND THE CA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE. PROVIDE AT LEAST ONE EXTERIOR AUDIBLE DEVICE ON BUILDING FOR E OCCUPANCIES. (CFC 907.5.2.1.3)
7. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SHALL COMPLY WITH CBC 907.2.3 AND NFPA 72 24.4.2
8. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH EVERY SECOND. (NFPA 72 18.5.3.1)
9. AUTOMATIC SMOKE DETECTION SHALL BE PROVIDED AT THE LOCATION OF EACH FIRE ALARM CONTROL UNIT, NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER AND SUPERVISING STATION TRANSMITTING EQUIPMENT TO PROVIDE NOTIFICATION OF FIRE AT THAT LOCATION. (NFPA 72 10.4.4)
10. BRANCH CIRCUITS PROTECTING FIRE ALARM EQUIPMENT SHALL BE LABELED PER NFPA 72 10.6.5.2.2 AND SHALL INCLUDE A LISTED CIRCUIT BREAKER LOCKING DEVICE PER NFPA 72 10.6.5.4
11. COMPLETE THE NFPA 72 RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO THE OWNER (SCHOOL DISTRICT), ARCHITECT, LOCAL FIRE AUTHORITY, AND DSA VIA THE PROJECT INSPECTOR. TESTING OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY AND THE DSA INSPECTOR OF RECORD (IOR). FINAL TEST SHALL INCLUDE READ OUT VERIFICATION FORM FROM CENTER STATION.
12. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (CFC 907.8.5, NFPA 72 14.4.1.1, NFPA 72 14.5)

FIRE ALARM CODES AND NOTES | 6

FIRE ALARM SYSTEM EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
▭	(E) FIRE ALARM CONTROL PANEL 'FACP': GAMEWELL-FCI E3 SERIES W/ AUTOMATIC CHARGING SYSTEM C.S.F.M. #7165-1703:0125
▭	(E) INTELLIGENT NETWORK TRANSPONDER: GAMEWELL-FCI #INX C.S.F.M. #7165-1703:0125
▭	(N) FIRE ALARM BOOSTER PANEL 'FABP': HONEYWELL #HPF2448 W/ AUTOMATIC CHARGING SYSTEM C.S.F.M. #7315-1637:0102
SD	ADDRESSABLE SMOKE DETECTOR (ON CEILING): GAMEWELL-FCI #ASD-PL2F / B501 C.S.F.M. #7272-1703:0121/7300-1653:0109
HD	ADDRESSABLE HEAT DETECTOR (ON CEILING): GAMEWELL-FCI #ATD-L2F / B501 C.S.F.M. #7270-1703:0115/7300-1653:0109
HD A	ADDRESSABLE HEAT DETECTOR (IN ATTIC): GAMEWELL-FCI #ATD-L2F / B501 C.S.F.M. #7270-1703:0115/7300-1653:0109
AV XX	HORN/STROBE ANNUNCIATOR - WALL MOUNTED (XX REPRESENTS CANDELA) - COOPER WHEELOCK #NS-24MCW-FR C.S.F.M. #7125-0785:0142
H WP	EXTERIOR HORN ANNUNCIATOR-WALL MOUNTED COOPER WHEELOCK #H1-24WP-R C.S.F.M. #7125-0785:0131

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 47. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM LEGEND | 3

SB575 - GREEN OAKS FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT REQUIREMENTS FOR AUTOMATIC FIRE ALARM SYSTEMS

THE FIRE DETECTION AND ALARM SYSTEM FOR THE AREAS AND/OR BUILDINGS WITHIN THE SCOPE OF WORK OF THIS PROJECT:

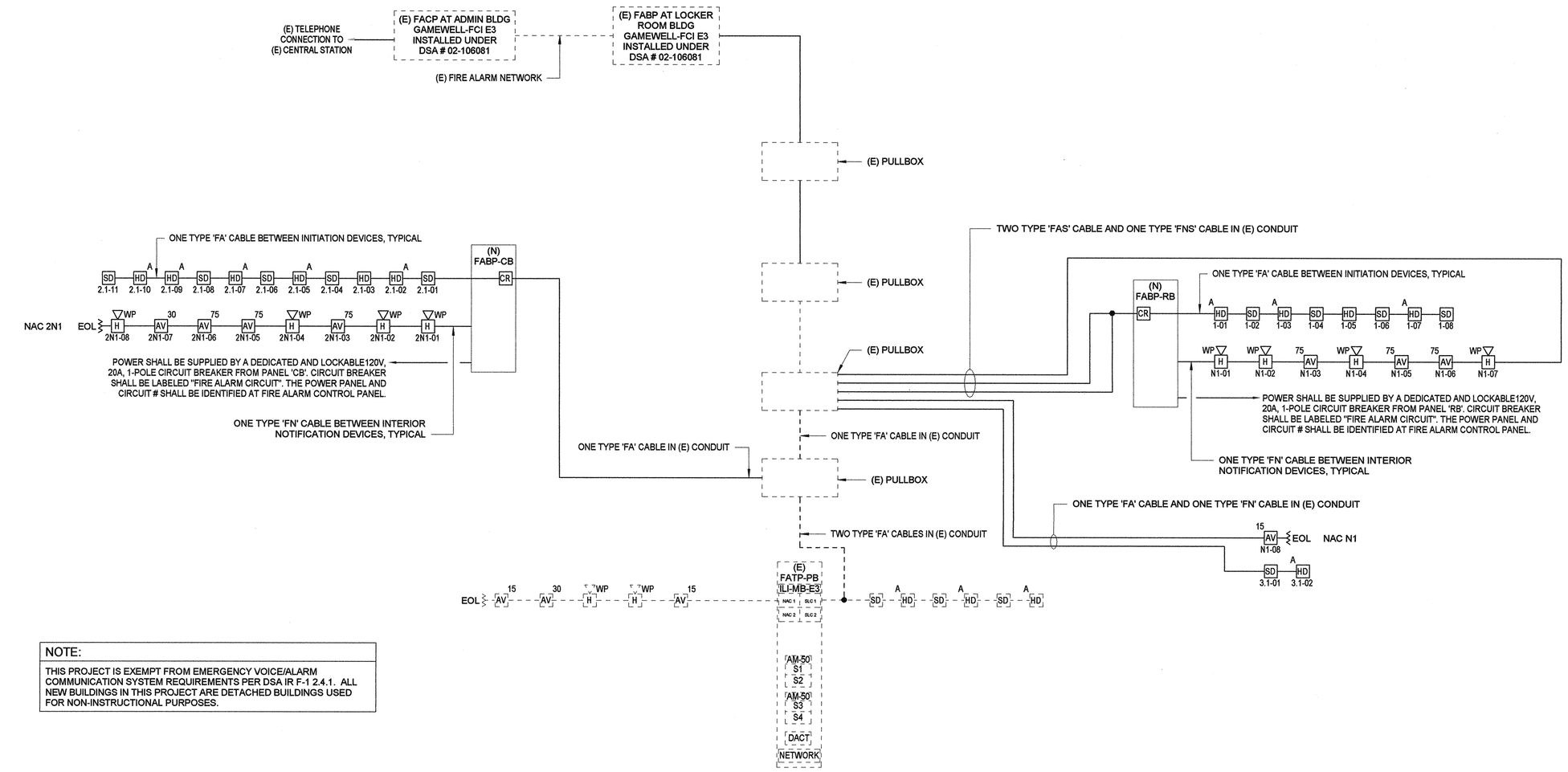
- [X] COMPLIES WITH SB575
  - [X] A FULLY-AUTOMATIC SYSTEM HAS BEEN DESIGNED FOR ALL AREAS, OR
  - [ ] THE AREAS AND/OR BUILDINGS ARE SPRINKLERED ABOVE THE CEILING, SO HEAT DETECTORS ARE EXEMPTED FROM ABOVE-CEILING AREAS. THE SYSTEM IS OTHERWISE FULLY AUTOMATIC.
  - [X] AN AUTOMATIC DIALER TO A UL-APPROVED CENTRAL STATION:
    - [X] IS EXISTING, OR
    - [ ] IS INCLUDED AS PART OF THIS PROJECT.
- [ ] IS EXEMPT FROM SB575
  - [ ] THE TOTAL PROJECT CONSTRUCTION VALUE IS LESS THAN $200,000, OR
  - [ ] THE PROJECT CONSISTS OF ONLY MODULAR BUILDINGS WHICH ARE TEMPORARY; THESE BUILDINGS SHALL BE REMOVED NO MORE THAN THREE YEARS FROM THE INSTALLATION DATE UNLESS A THREE-YEAR EXTENSION IS APPROVED BY DSA, OR
  - [ ] THE PROJECT IS NOT FUNDED UNDER CHAPTER 12.5 OF THE LEROY F. GREENE SCHOOL FACILITIES ACT. IT WILL BE 100% FUNDED BY LOCAL FUNDS.

SB575 | 4

FIRE ALARM SYSTEM OPERATIONAL MATRIX

DEVICE	ACTIVATE EVACUATION SIGNALS/STROBES	ANNUNCIATE AT BUILDING FACP AND ALL REMOTE ANNUNCIATORS	SEND SIGNAL TO CENTRAL STATION
FIRE ALARM PANEL SYSTEM TROUBLE		X	X
SMOKE DETECTOR	X	X	X
HEAT DETECTOR	X	X	X

FIRE ALARM OPERATIONAL MATRIX | 5



FIRE ALARM RISER DIAGRAM | 1

NOTE:
THIS PROJECT IS EXEMPT FROM EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM REQUIREMENTS PER DSA IR F-1 2.4.1. ALL NEW BUILDINGS IN THIS PROJECT ARE DETACHED BUILDINGS USED FOR NON-INSTRUCTIONAL PURPOSES.

(E) FIRE ALARM TRANSPONDER PANEL 'FATP-PB' BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT/ DEVICE	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
		(E) DEVICES				
1	ILI-MB-E3	Intel. Loop Interface, Main Board (ILI-MB-E3)	0.0810	0.0810	0.1500	0.1500
1	PM-9	120V Power Supply Sub-Assembly (PM-9)	0.0500	0.0500	0.0500	0.0500
1	INI-VGX	Intel. Network Transponder Voice Gateway (INI-VGX)	0.1500	0.1500	0.1500	0.1500
1	AM-50	Amplifier Sub-assembly, 50 watt 25V (AM-50)	0.0840	0.0840	2.2060	2.2060
2	RPT-E3	ARCNET Repeater (RPT-E3)	0.0130	0.0260	0.0130	0.0260
2	HS15	Wheelock Horn/Strobe 15cd #NS-24MCW-FR	0.0000	0.0000	0.0740	0.1480
1	HS30	Wheelock Horn/Strobe 30cd #NS-24MCW-FR	0.0000	0.0000	0.1070	0.1070
2	AH	Wheelock Horn #AH-24WP-R (Exterior)	0.0000	0.0000	0.0620	0.1240
3	SD	Gamewell-FCI #ASD-PL2F Analog Addressable Smoke Sensor (Ceiling)	0.0003	0.0009	0.0065	0.0195
3	HD	Gamewell-FCI #ATD-L2F Addressable Thermal Sensor (Attic/Ceiling)	0.0003	0.0009	0.0065	0.0195
		(N) DEVICES				
10	SD	Gamewell-FCI #ASD-PL2F Analog Addressable Smoke Sensor (Ceiling)	0.0003	0.0030	0.0065	0.0650
12	HD	Gamewell-FCI #ATD-L2F Adressable Thermal Sensor (Attic/Ceiling)	0.0003	0.0036	0.0065	0.0780
		TOTALS		0.3948		3.1430
TOTAL ALARM AMP-HOURS (15 MIN.) =		0.25 HR x 3.143 A		=	0.7858	A-H
TOTAL STANDBY AMP-HOURS (24 HRS) =		24 HR x 0.395 A		=	9.4752	A-H
TOTAL REQUIRED AMP-HOURS =				=	**10.2610**	**A-H**
TOTAL DESIGN AMP-HOURS WITH 20% SAFETY FACTOR =				=	**12.3131**	**A-H**
(E) BATTERY CAPACITY REQUIREMENTS					**18.000**	**A-H**

FIRE ALARM BOOSTER PANEL 'FABP-CB' BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT/ DEVICE	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
1	HPF	Gamewell-FCI #HPF2456 Power Expander	0.0020	0.0020	0.0020	0.0020
3	HS75	Wheelock Horn/Strobe 75cd #NS-24MCW-FR	0.0000	0.0000	0.1840	0.5520
1	HS30	Wheelock Horn/Strobe 30cd #NS-24MCW-FR	0.0000	0.0000	0.1070	0.1070
4	AH	Wheelock Horn #AH-24WP-R (Exterior)	0.0000	0.0000	0.0620	0.2480
		VOICE EVACUATION SYSTEM SPEAKERS				
		TOTALS		0.0020		0.9090
TOTAL ALARM AMP-HOURS (15 MIN.) =		0.25 HR x 0.909 A		=	0.2273	A-H
TOTAL STANDBY AMP-HOURS (24 HRS) =		24 HR x 0.002 A		=	0.0480	A-H
TOTAL REQUIRED AMP-HOURS =				=	**0.2753**	**A-H**
TOTAL DESIGN AMP-HOURS WITH 20% SAFETY FACTOR =				=	**0.3303**	**A-H**
BATTERY CAPACITY REQUIREMENTS					**7.000**	**A-H**

FIRE ALARM BOOSTER PANEL 'FABP-RB' BATTERY CALCULATIONS

QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT/ DEVICE	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT
1	HPF	Gamewell-FCI #HPF2456 Power Expander	0.0020	0.0020	0.0020	0.0020
3	HS75	Wheelock Horn/Strobe 75cd #NS-24MCW-FR	0.0000	0.0000	0.1840	0.5520
3	HS15	Wheelock Horn/Strobe 15cd #NS-24MCW-FR	0.0000	0.0000	0.0740	0.2220
4	AH	Wheelock Horn #AH-24WP-R (Exterior)	0.0000	0.0000	0.0620	0.2480
		VOICE EVACUATION SYSTEM SPEAKERS				
		TOTALS		0.0020		1.0240
TOTAL ALARM AMP-HOURS (15 MIN.) =		0.25 HR x 1.024 A		=	0.2560	A-H
TOTAL STANDBY AMP-HOURS (24 HRS) =		24 HR x 0.002 A		=	0.0480	A-H
TOTAL REQUIRED AMP-HOURS =				=	**0.3040**	**A-H**
TOTAL DESIGN AMP-HOURS WITH 20% SAFETY FACTOR =				=	**0.3648**	**A-H**
BATTERY CAPACITY REQUIREMENTS					**7.000**	**A-H**

'FABP-RB' NAC 'N1' VOLTAGE DROP CALCULATION

QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
3	HS75	Wheelock Horn/Strobe 75cd #NS-24MCW-FR	0.1840	0.5520
1	HS15	Wheelock Horn/Strobe 15cd #NS-24MCW-FR	0.0740	0.0740
4	AH	Wheelock Horn #AH-24WP-R (Exterior)	0.0620	0.2480
		TOTAL CURRENT ADDED TO CIRCUIT	0.412	0.874
LENGTH OF WIRE FROM FACP TO LAST DEVICE (IN FEET) =				**324**
ACTUAL SIZE OF WIRE INSTALLED =		**12** AWG **6530** CIRCULAR MILS		
CALCULATED VOLTAGE DROP (IN VDC) =				**0.937**
CIRCUIT VOLTAGE CALCULATED AT LAST DEVICE (IN VDC) =				**23.1 VDC**
PERCENT VOLTAGE DROP (%) =				**3.9 %**

'FABP-CB' NAC '2N1' VOLTAGE DROP CALCULATION

QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
3	HS75	Wheelock Horn/Strobe 75cd #NS-24MCW-FR	0.1840	0.5520
1	HS30	Wheelock Horn/Strobe 30cd #NS-24MCW-FR	0.1070	0.1070
4	AH	Wheelock Horn #AH-24WP-R (Exterior)	0.0620	0.2480
		TOTAL CURRENT ADDED TO CIRCUIT	0.445	0.907
LENGTH OF WIRE FROM FACP TO LAST DEVICE (IN FEET) =				**47**
ACTUAL SIZE OF WIRE INSTALLED =		**12** AWG **6530** CIRCULAR MILS		
CALCULATED VOLTAGE DROP (IN VDC) =				**0.141**
CIRCUIT VOLTAGE CALCULATED AT LAST DEVICE (IN VDC) =				**23.9 VDC**
PERCENT VOLTAGE DROP (%) =				**0.59 %**

BATTERY AND VOLTAGE DROP CALCULATIONS | 2

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STADIUM MODERNIZATION INCREMENT NO. 1
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
FIRE ALARM RISER DIAGRAM & CALCULATIONS

PROJECT NO.
18-10748

DRAWING
E710-2

PLOT DATE: 12/7/2018 1:11:24 PM

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CODES, RULES & REGULATIONS

ALL WORK SHOWN HEREIN SHALL COMPLY WITH THE CURRENT REGULATIONS OF THE CALIFORNIA STATE FIRE MARSHAL, CALIFORNIA BUILDING CODE, TITLES 8 AND 19 THROUGH 24, SERVING UTILITY RULES AND ALL OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE INTERPRETED AS TO PERMIT ANY WORK NOT IN CONFORMANCE WITH THESE CODES, RULES AND REGULATIONS. WHERE WORK OF A GREATER DEGREE IS INDICATED IN THESE PLANS OR SPECIFICATIONS, THAT REQUIREMENT SHALL GOVERN SUCH WORK.

C.E.C. TITLE 24 COMPLIANCE

THE LIGHTING AND LIGHTING CONTROL SYSTEMS DESIGN DEPICTED HEREIN IS IN COMPLIANCE WITH REQUIREMENTS OF THE CURRENT CALIFORNIA ENERGY COMMISSION EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS.

GENERAL NOTES (TYPICAL)

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED ELECTRICAL EQUIPMENT.
2. REFER TO THE MECHANICAL AND PLUMBING PLANS FOR THE EXACT LOCATION OF ALL MECHANICAL, HVAC AND PLUMBING EQUIPMENT.
3. VERIFY THE EXACT LOCATION OF ALL FLOOR BOXES AND ASSOCIATED TRENCH, BACKFILL AND SAWCUTTING REQUIREMENTS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY ROUGH -IN WORK FOR THIS EQUIPMENT.
4. COORDINATE ELECTRICAL PANEL AND TERMINAL CABINET LOCATIONS AND ROUTING OF UNDERGROUND CONDUITS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO COMMENCEMENT OF ANY ROUGH-IN WORK FOR THIS EQUIPMENT.
5. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES WHOSE WORK WILL IMPACT PLACEMENT OR CONNECTION OF ELECTRICALLY POWERED EQUIPMENT REGARDLESS OF RESPONSIBILITY FOR SUPPLYING EQUIPMENT.

MEP COMPONENT ANCHORAGE NOTE

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

1. ALL PERNANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTCHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

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

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL 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.

ELECTRICAL DISTRIBUTION SYSTEMS:

SHALL COMPLY WITH THE OSHPD PRE-APPROVAL (OPM) #OPM-0052-13, "SEISMIC BRACING AND SUPPORT SYSTEMS"

GENERAL NOTES 14

LIGHTING FIXTURE SCHEDULE - INC 2

FIXTURE DESIGNATION	FIXTURE VOLTAGE	FIXTURE WATTAGE	MOUNTING	DRIVER & COLOR TEMP	DESCRIPTION	MANUFACTURER	CATALOG #
B1	120 V	50	SURFACE PER 4/E600-2	LED - MIN. 4000 LUMENS 4000K (0-10V DIMMING)	2' x 4' SURFACE MOUNTED - SEALED FIXTURE WITH SHATTER-RESISTANT ACRYLIC LENS, WITH INTEGRAL 0-10V DIMMING	NEW STAR	NEW STAR CLEAN SERIES OR EQUIVALENT
B1E	120 V	50	SURFACE PER 4/E600-2	LED - MIN. 4000 LUMENS 4000K (0-10V DIMMING) + EMERGENCY DRIVER	2' x 4' SURFACE MOUNTED - SEALED FIXTURE WITH SHATTER-RESISTANT ACRYLIC LENS, WITH INTEGRAL 0-10V DIMMING AND EMERGENCY BATTERY BACKUP	NEW STAR	NEW STAR CLEAN SERIES OR EQUIVALENT
B2	120 V	50	SURFACE PER 4/E600-2	LED - MIN 2500 LUMENS 4000K (0-10V DIMMING)	4' SURFACE MOUNTED VANDAL RESISTANT WITH INTERGRAL 0-10V DIMMING	NEW STAR	NEW STAR CLEAN SERIES OR EQUIVALENT
B2E	120 V	50	SURFACE PER 4/E600-2	LED - MIN 2500 LUMENS 4000K (0-10V DIMMING) + EMERGENCY DRIVER	4' SURFACE MOUNTED VANDAL RESISTANT WITH INTERGRAL 0-10V DIMMING AND EMERGENCY BATTERY BACKUP	NEW STAR	NEW STAR CLEAN SERIES OR EQUIVALENT
H1	120 V	16	SURFACE PER 5/E600-2-2	LED - 2700K	LED HAIKU LIGHT KIT FOR HAIKU CEILING FAN	HAIKU	10R-01-01-AO-F-02-1.2-01-XXX-HKL
W1	120 V	44	WALL PER ARCH. ELEV.	LED - MIN 3000 LUMENS 4000K (0-10V DIMMING)	ARCHITECTURAL LED WALL SCONCE - VANDAL RESISTANT	PERFORMANCE IN LIGHTING	BLIZ SQUARE #071650
W1E	120 V	44	WALL PER ARCH. ELEV.	LED - MIN 2500 LUMENS 4000K (0-10V DIMMING) + EMERGENCY DRIVER	ARCHITECTURAL LED WALL SCONCE - VANDAL RESISTANT WITH EMERGENCY BATTERY BACKUP	PERFORMANCE IN LIGHTING	BLIZ SQUARE 40 EMPK #071662

LIGHTING FIXTURE SCHEDULE 6

TRANSFORMER SCHEDULE INC 2

TRANSFORMER DESIGNATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	kVA RATING	SUPPLY-SIDE & SYSTEM BONDING JUMPER SIZES	ENCLOSURE	DIMENSIONS HEIGHT	WIDTH	DEPTH	XFMR WEIGHT	REMARKS
T2	480V DELTA	120/208Y V 3ϕ	45	#4 CU	NEMA 3R	35.32"	25.52"	21.00"	507 LBS.	1, 2, 3

TRANSFORMER SCHEDULE NOTES:

(1) TRANSFORMER SHALL BE COMPLIANT WITH DOE 2016 ENERGY EFFICIENCY STANDARD.

(2) TRANSFORMER GROUND PER DETAIL 3/E600.

(3) REFER TO 1/E600-2 FOR TRANSFORMER MOUNTING

TRANSFORMER SCHEDULE 7

TELECOMMUNICATION CABLE SCHEDULE

CABLE DESIGNATION	DESCRIPTION	MANUFACTURER & CATALOG #	OUTER JACKET COLOR	SYSTEM	USE
'D'	4 UTP #23 AWG CATEGORY 6 CMP PLENUM RATED	BERK-TEK LANMARK-1000	BLUE	DATA	HORIZONTAL DATA CABLE - INTERIOR
'DS'	4 UTP #24 AWG CATEGORY 6 FILLED OUTDOOR	COMMSCOPE MEDIA 6 #6NF4+	BLACK	DATA	HORIZONTAL DATA CABLE - OUTDOOR
'FO-12'	12-STRAND SINGLE-MODE FIBER OPTIC CABLE	CORNING SMF-28e+ OR EQUIVALENT	BLACK	DATA	SITE OPTICAL FIBER DATA NETWORK
'S'	2 TWISTED PAIR #22 AWG SHIELDED	BELDEN 82723	BLACK	PA SYSTEM	BUILDING SPEAKER CABLE
'T12'	12 PR #22 AWG OVERALL SHIELDED	SUPERIOR ESSEX #09-059-02	BLACK	TELEPHONE	SITE TELEPHONE CABLE
'T50'	50 PR #22 AWG OVERALL SHIELDED	SUPERIOR ESSEX #09-065-02	BLACK	TELEPHONE	SITE TELEPHONE CABLE

FIRE ALARM CABLE SCHEDULE

CABLE DESIGNATION	DESCRIPTION	MANUFACTURER & CATALOG #	OUTER JACKET COLOR	SYSTEM	USE
'FNET'	4-STRAND MULTI-MODE FIBER OPTIC CABLE (62.5/125um)	CORNING INFINICOR 300 OR EQUIVALENT	BLACK	FIRE ALARM	SITE OPTICAL FIBER FIRE ALARM NETWORK
'FA'	1 PR, #16 AWG SOLID UNSHIELDED FPL	WEST PENN #D990	RED	FIRE ALARM	ADDRESSABLE SLC LOOP CABLE - INTERIOR
'FN'	1 PR, #12 SOLID UNSHIELDED FPLP	WEST PENN #60995B	RED	FIRE ALARM	VISUAL (STROBE) NOTIFICATION APPLIANCE CIRCUIT - INTERIOR

SIGNAL CABLE SCHEDULES 8

ELECTRICAL SYMBOL LEGEND

DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED
NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
E.P.	DENOTES EXPLOSION PROOF CONSTRUCTION	S_a	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N. — LOWER CASE SUBSCRIPT INDICATES CONTROLLED SWITCHLEG OF CIRCUIT
D.T.	DENOTES DUST TIGHT CONSTRUCTION	S_2	TWO POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.
O.C.	DENOTES SPACING DIMENSION ON CENTER LINE OF DEVICE	S_3	THREE WAY AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.
R.T.	DENOTES RAIN TIGHT CONSTRUCTION	S_4	FOUR WAY AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.
U.G.	DENOTES UNDERGROUND INSTALLATION	S_M	HORSEPOWER RATED AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
V.P.	DENOTES VAPOR TIGHT CONSTRUCTION	S_P	SINGLE POLE AC SNAP SWITCH WITH PILOT LAMP @ +48" TO TOP OF BOX U.O.N.
W.P.	DENOTES WEATHERPROOF CONSTRUCTION	S_T	DIGITAL TIMER SWITCH, FLUSH MOUNTED @ +48" TO TOP OF BOX U.O.N.
W.T.	DENOTES WATER TIGHT CONSTRUCTION	S_A	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX, U.O.N.
A.F.F.	DENOTES ABOVE FINISHED FLOOR	S_K	KEY OPERATED AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
A.F.G.	DENOTES ABOVE FINISHED GRADE	S_{CS}	SYSTEM CONTROL SWITCH PER PLANS, @ 48" TO TOP OF BOX U.O.N.
F.B.O.	DENOTES FURNISHED BY OTHERS	S_{OS}	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +48" TO TOP OF BOX, U.O.N.
U.O.N.	DENOTES UNLESS OTHERWISE NOTED	(M)	OCCUPANCY SENSOR - CEILING MOUNTED
(E)	DENOTES EXISTING TO REMAIN, NO WORK U.O.N.	$(M)_W$	OCCUPANCY SENSOR - WALL MOUNTED @ +90" TO TOP OF BOX, U.O.N.
(N)	DENOTES NEW	(P)	LIGHTING CONTROL SYSTEM DIMMING/POWER PACK MOUNTED IN ATTIC
(1)	ELECTRICAL KEYNOTES: DENOTES KEYNOTE #1 OF OF NOTES ON SAME SHEET	(NP)	LIGHTING CONTROL SYSTEM PLUG LOAD RELAY PACK MOUNTED IN ATTIC
'A' - 3	CIRCUIT HOME RUN: DENOTES PANEL A, CKT. #3, - 3/4"C. MINIMUM, U.O.N.	(2S)	LIGHTING CONTROL SYSTEM 2-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX, U.O.N.
(1)	CIRCUIT FEEDER: DENOTES FEEDER 'F1' PER SYSTEM FEEDER SCHEDULE	(2S)	LIGHTING CONTROL SYSTEM 4-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX, U.O.N.
———	CONDUIT IN ATTIC/WALL: DENOTES 3/4"C- 2#12 AWG CU THWN, 1#12 CU GND, U.O.N.	(2S)	LIGHTING CONTROL SYSTEM DIMMING WALL SWITCH WITH LOCKING COVER @ +48" TO TOP OF BOX, U.O.N.
———	CONDUIT IN FLOOR/U.G.: DENOTES 3/4"C-2#12 AWG CU THWN, 1#12 CU GND, U.O.N.	(DS)	LIGHTING CONTROL SYSTEM DAYLIGHT SENSOR - CEILING MOUNTED
———	DENOTES EXISTING CONDUIT RUN TO REMAIN	(NB)	LIGHTING CONTROL SYSTEM NETWORK BRIDGE
—3	CONDUIT RUN - STUBBED, CAPPED AND LABELED.	(NG)	LIGHTING CONTROL SYSTEM NETWORK GATEWAY
-##-	CONDUIT RUN: DENOTES 3/4"C - 3 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	(OR)	LIGHTING CONTROL SYSTEM AUTOMATED DEMAND RESPONSE MODULE
-##-	CONDUIT RUN: DENOTES 3/4"C - 4 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	(TC)	LIGHTING CONTROL SYSTEM TIME CLOCK
-##-	CONDUIT RUN: DENOTES 3/4"C - 5 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	(PC)	PHOTOCELL CONTROL MOUNTED ON ROOF
-##-	CONDUIT RUN: DENOTES 1"C - 6 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.		
V D	SEPARATE POWER AND DATA FLOOR BOXES (2)	(T)	LOW VOLTAGE CONTROL TRANSFORMER
V D	FLUSH FLOOR BOX WITH DEVICE(S) INSTALLED PER PLANS, U.O.N. (2)		
⊖	SINGLE RECEPTACLE IN WALL @ +18", U.O.N.	▭	ELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL (4)
⊖	DUPLEX RECEPTACLE IN WALL @ +18", U.O.N.	▭	ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL
⊖	DUPLEX GFI RECEPTACLE, IN WALL @ 18", U.O.N.	▭	TERMINAL CABINET PER PLANS, FLUSH MOUNTED IN WALL (5)
⊖	SWITCHED GFCI RECEPTACLE IN WALL @ +18" A.F.F. U.O.N. (OCC. SENSOR OR WALL SWITCH CONTOLLED)	▭	TERMINAL CABINET PER PLANS, SURFACE MOUNTED ON WALL
⊖ WP	WEATHER RESISTANT (WR) DUPLEX GFCI RECEPTACLE W/ W.P. COVER @ 18", U.O.N.	▭	CONTROL PANEL PER PLANS, FLUSH MOUNTED IN WALL (6)
⊖ IG	DUPLEX ISOLATED GROUND RECEPTACLE IN WALL @ +18", U.O.N. (7)	▭	CONTROL PANEL PER PLANS, SURFACE MOUNTED ON WALL
⊖ IG	QUADRUPLEX ISOLATED GROUND RECEPTACLE IN WALL @ +18", U.O.N.	▭	LIGHTING CONTROL PANEL PER PLANS, FLUSH MOUNTED IN WALL (6)
⊖	QUADRUPLEX RECEPTACLE IN WALL @ +18", U.O.N.	▭	LIGHTING CONTROL PANEL PER PLANS, SURFACE MOUNTED ON WALL
⊖	SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL @ 18" U.O.N.	▭	FIRE ALARM PANEL PER PLANS, FLUSH MOUNTED IN WALL (6)
⊖	DUPLEX RECEPTACLE FLUSH IN CEILING	▭	FIRE ALARM PANEL PER PLANS, SURFACE MOUNTED ON WALL
J	JUNCTION BOX		
J	JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT	▷(S)	EXTERIOR SPEAKER, ELEVATION AS NOTED
	NON-FUSIBLE DISCONNECT SWITCH	(S)	SPEAKER IN CEILING, U.O.N.
	FUSIBLE DISCONNECT SWITCH	(S)◷	SPEAKER/CLOCK IN COMMON BACKBOX PER PLAN @ 12" BELOW CEILING, U.O.N.
	FUSIBLE DISCONNECT SWITCH WITH INTEGRAL MAGNETIC STARTER	◷	WALL CLOCK PER PLAN @ 12" BELOW CEILING, U.O.N.
M	ELECTRIC MOTOR	[S]	SPEAKER ON WALL @ 12" BELOW CEILING, U.O.N.
M	EXHAUST FAN OR FRACTIONAL HORSEPOWER MOTOR		
	SURFACE MOUNTED RACEWAY, MOUNT @ +18" A.F.F. U.O.N.	(MD)	INTRUSION ALARM SYSTEM MOTION DETECTOR (3)
	RECESSED LED LIGHTING FIXTURE	(DC)	INTRUSION ALARM SYSTEM MAGNETIC DOOR CONTACT (3)
	RECESSED LED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP	(WC)	INTRUSION ALARM SYSTEM MAGNETIC WINDOW CONTACT (3)
	SURFACE MOUNTED LED LIGHTING FIXTURE	(GB)	INTRUSION ALARM SYSTEM GLASS BREAK DETECTOR (3)
	SURFACE MOUNTED LED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP	(KP)	INTRUSION ALARM SYSTEM KEYPAD (3)
	SURFACE MOUNTED LED STRIP LIGHT	(CR)	INTRUSION ALARM SYSTEM CARD READER (3)
	SURFACE MOUNTED LED STRIP LIGHT WITH EMERGENCY BATTERY BACKUP	(FR)	INTRUSION ALARM SYSTEM FOB READER (3)
	POST TOP MOUNTED LIGHTING FIXTURE	(C)	SECURITY CAMERA ROUGH-IN LOCATION PER PLAN (3)
	WALL MOUNTED LIGHTING FIXTURE		
	WALL MOUNTED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP	(SD)	FIRE ALARM SMOKE DETECTOR ON CEILING, U.O.N.
	CEILING MOUNTED LIGHTING FIXTURE	(SM)	FIRE ALARM SYNC MODULE
	CEILING MOUNTED LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP	(HD)	FIRE ALARM HEAT DETECTOR IN ATTIC, U.O.N.
	RECESSED LIGHTING FIXTURE	(DD)	FIRE ALARM DUCT DETECTOR IN HVAC DUCT
	RECESSED FIXTURE WITH EMERGENCY BATTERY BACKUP	(WF)	FIRE ALARM WATERFLOW DETECTION SWITCH
	SURFACE MOUNTED ROUND LIGHTING FIXTURE	(AT)	FIRE ALARM ADDRESSABLE WATERFLOW / TAMPER SWITCH MODULE
	SURFACE MOUNTED ROUND LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP	(TS)	FIRE ALARM TAMPER SWITCH
	ILLUMINATED EXIT SIGN MOUNTED ON CEILING	(IO)	FIRE ALARM ADDRESSABLE INPUT/OUTPUT MODULE
	ILLUMINATED EXIT SIGN MOUNTED ON WALL	(CR)	FIRE ALARM ADDRESSABLE CONTROL RELAY MODULE
	LOW LEVEL PHOTOLUMINESCENT EXIT SIGN MOUNTED ON WALL	(DR)	FIRE ALARM DOOR RELEASE
	POLE MOUNTED EXTERIOR LIGHTING FIXTURE	(AM)	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE
		(F)	FIRE ALARM MANUAL PULL STATION @ +48" TO TOP OF BOX, U.O.N.
2/2 ▷	COMBINATION VOICE AND DATA OUTLET IN WALL, WITH TWO 'D' CABLES TO IDF + TWO 'T' CABLES TO TELEPHONE BACKBOARD (1) (6)	(V)	FIRE ALARM VISUAL ALARM UNIT @ +80" MINIMUM, U.O.N.
X▷	DATA OUTLET IN WALL @ +18", U.O.N. WITH 'D' CABLES TO IDF OR MDF (SUBSCRIPT INDICATES QUANTITY OF CABLES AND STATION SIDE JACKS) (1) (6)	(H)	INTERIOR FIRE ALARM HORN @ +10'-0", U.O.N.
TV▷	TELEVISION OUTLET IN WALL @ +18", U.O.N. (1)	(H)◁	EXTERIOR FIRE ALARM HORN
M▷	MICROPHONE OUTLET IN WALL @ +18", U.O.N. (1)	(H)	FIRE ALARM HORN/STROBE ALARM UNIT @ +80" MINIMUM, U.O.N.
S▷	SPEAKER OUTLET IN WALL @ +18", U.O.N. (1)	(SV)	VOICE EVACUATION SPEAKER/STROBE ALARM UNIT @ +80" MINIMUM, U.O.N.
IC▷	INTERCOMMUNICATIONS HANDSET ON WALL @ +48" TO TOP OF BOX U.O.N.	(S)◁	EXTERIOR VOICE EVACUATION SPEAKER
WAP	WIRELESS ACCESS POINT LOCATION, PROVIDE TWO TYPE 'D' CABLES TO IDF OR MOF		FIRE ALARM CIRCUIT END OF LINE RESISTOR

ELECTRICAL SYMBOLS NOTES:

(1) RUN 1"C CONCEALED IN WALL AND STUB INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING, U.O.N.

(2) RUN 1"C TO NEAREST WALL, THEN RISE CONCEALED IN WALL AND STUB INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING, U.O.N. FOR SINGLE SYSTEMS INDIVIDUAL FLOORBOXES. WHERE MULTIPLE SYSTEMS OCCUR WITHIN A COMMON FLOOR BOX, RUN TWO 1"C PER ABOVE.

(3) SYSTEM IS ROUGH IN ONLY, PROVIDE BACKBOX, BLANK COVERPLATE AND CONDUIT STUB PER DETAIL PLANS.

(4) IN ADDITION TO CONDUITS SHOWN ON PLANS, STUB ONE 1 1/4"C, ONE 1"C, AND TWO 3/4"C (SPARE) INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING, U.O.N. THIS REQUIREMENT APPLIES TO EACH POWER AND LIGHTING PANEL INDICATED FLUSH MOUNTED ON POWER PLAN.

(5) IN ADDITION TO CONDUITS SHOWN ON PLANS, STUB ONE 1"C AND TWO 3/4"C (SPARE) INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING U.O.N.. REQUIREMENT APPLIES TO EACH SIGNAL SYSTEM T.C. INDICATED FLUSH MOUNTED ON SIGNAL PLAN.

(6) 4S BACKBOX WITH SINGLE GANG TRIM AND COVERPLATE.

(7) ORANGE DEVICE (ISOLATED GROUND DUPLEX RECEPT. ONLY) WITH ENGRAVED WORDING ON COVER PLATE ABOVE ISOLATED GROUND RECEPT.: "COMPUTER ONLY".

SYMBOL LEGEND AND NOTES 4

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MARK	DATE	DESCRIPTION
	12-12-18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL: 02-116986
AC FLS SS KG
DATE: 11 DEC 2018

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

STADIUM MODERNIZATION INCREMENT NO. 1
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
ELECTRICAL SCHEDULES, LEGENDS, AND NOTES

PROJECT NO.
18-10748

DRAWING
E800-2

PLOT DATE: 12/7/2018 1:11:25 PM

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PANEL: TC

EXISTING PANELBOARD | 400 AMP BUS, 277/480V, 3 PH, 4 W, 100% RATED NEUTRAL | MAIN: 400A CB | TRIP: THERMAL-MAGNETIC | A.I.C.: 10000 A | LOCATION: WEST OF TENNIS COURTS | MOUNTING: PAD MOUNTED | ENCLOSURE: NEMA 3R

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	BREAKER AMP	BREAKER POLE	SERVES	VOLT-AMPERES LOAD	A	B	C	LOAD	SERVES	BREAKER AMP	BREAKER POLE	CIRCUIT PNL SPACE	CIRCUIT CKT NO.
1	1	20	1	(E) LIGHTS (TENNIS COURT #1)	2160	4320			2160	(E) LIGHTS (TENNIS COURT #1)	20	1	2	2
3	3	20	1	(E) LIGHTS (TENNIS COURT #1)	2160		4320		2160	(E) LIGHTS (TENNIS COURT #1)	20	1	4	4
5	5	20	1	(E) LIGHTS (TENNIS COURT #1)	2160			4320	2160	(E) LIGHTS (TENNIS COURT #1)	20	1	6	6
7	7	20	1	(E) LIGHTS (TENNIS COURT #1)	2160	4320			2160	(E) LIGHTS (TENNIS COURT #1)	20	1	8	8
9	9	20	1	(E) LIGHTS (TENNIS COURT #1)	2160		4320		2160	(E) LIGHTS (TENNIS COURT #1)	20	1	10	10
11	11	20	1	(E) LIGHTS (TENNIS COURT #1)	2160			4320	2160	(E) LIGHTS (TENNIS COURT #1)	20	1	12	12
13	13	20	1	(E) LIGHTS (TENNIS COURT #1)	2160	4320			2160	(E) LIGHTS (TENNIS COURT #1)	20	1	14	14
15	15	20	1	(E) LIGHTS (TENNIS COURT #1)	2160		4320		2160	(E) LIGHTS (TENNIS COURT #1)	20	1	16	16
17	17	20	1	(E) LIGHTS (TENNIS COURT #1)	2160			4320	2160	(E) LIGHTS (TENNIS COURT #1)	20	1	18	18
19	19	20	1	(E) LIGHTS (TENNIS COURT #1)	2160	4320			2160	(E) LIGHTS (TENNIS COURT #1)	20	1	20	20
21	21	20	1	(E) LIGHTS (TENNIS COURT #1)	2160		4320		2160	(E) LIGHTS (TENNIS COURT #1)	20	1	22	22
23	23	20	1	(E) LIGHTS (TENNIS COURT #1)	2160			4320	2160	(E) LIGHTS (TENNIS COURT #1)	20	1	24	24
25	25	20	1	(E) POLE LIGHTS	2300	4600			2300	(E) POLE LIGHTS	20	1	26	26
27	27	20	1	(E) POLE LIGHTS	2760		5060		2300	(E) POLE LIGHTS	20	1	28	28
29	29	20	1	(E) POLE LIGHTS	2300			2300	0	(E) SPARE	20	1	30	30
31	31	20	1	(E) POLE LIGHTS	2300	2300			0	(E) SPARE	20	1	32	32
33	33				15750		15750		0	SPACE	20	1	34	34
35	35	100	3	(E) SOFTBALL FIELD LIGHTING PANEL	13500			13680	180	(E) IRRIGATION CONTROLLETR	20	1	36	36
37	37				13500	14580			1080				38	38
39	39	100	2	(E) SUBFEED PANEL 'TB'	180		940		760	(E) SUBFEED TO XFMR 'TT' (75KVA)	125	3	40	40
41	41				0			580	580				42	42
SUB		-	-		0	48120			48120				SUB	
					0		40443		40443	(E) SUBFEED TO PANEL 'SL'	200	3		
					0			37576	37576					
				TOTAL CONNECTED LOAD (VA) :		86880	79473	71416						
				25% LCL/LML (VA) :		6045	5585	4895						
				TOTAL CALCULATED LOAD (VA) :		92925	85058	76311	TOTAL CALCULATED LOAD FOR PANEL:					
				TOTAL CALCULATED LOAD (AMPS) :		335.5	307.1	275.5	254294 VA					

PANEL: SL

EXISITNG PANELBOARD | 225 AMP BUS, 277/480V, 3 PH, 4 W, 100% RATED NEUTRAL | MAIN: 200A CB | TRIP: THERMAL-MAGNETIC | A.I.C.: 10000 A | LOCATION: WEST OF TRACK | MOUNTING: POST/STRUT | ENCLOSURE: NEMA 3R

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	BREAKER AMP	BREAKER POLE	SERVES	VOLT-AMPERES LOAD	A	B	C	LOAD	SERVES	BREAKER AMP	BREAKER POLE	CIRCUIT PNL SPACE	CIRCUIT CKT NO.
1	1				2400	4800			2400				2	2
3	3	20	3	(E) POLE T1	2400		4800		2400	(E) POLE T2	20	3	4	4
5	5				2400			4800	2400				6	6
7	7				2400	4800			2400				8	8
9	9	20	3	(E) POLE T3	2400		4800		2400	(E) POLE T4	20	3	10	10
11	11				2400			4800	2400				12	12
13	13				2400	6000			3600				14	14
15	15	20	3	(E) POLE T5	2400		6000		3600	(E) POLE T6	20	3	16	16
17	17				2400			6000	3600				18	18
19	19				3600	6000			2400				20	20
21	21	20	3	(E) POLE T7	3600		6000		2400	(E) POLE T8	20	3	22	22
23	23				3600			6000	2400				24	24
25	25				0	1000			1000	(E) LOAD	20	1	26	26
27	27	20	3	(E) SPARE	0		960		960	(E) PEDESTRIAN POLE LTG (2)	20	1	28	28
29	29				0			0	0	SPACE	20	1	30	30
31	31				12831	12831			0	SPACE	20	1	32	32
33	33	70	3	(E) TRANSFORMER 'T1' (2)	6251		6251		0	SPACE	20	1	34	34
35	35				4336			4336	0	SPACE	20	1	36	36
37	37				7289	7289			0	SPACE	20	1	38	38
39	39	70	3	(N) TRANSFORMER 'T2' (1)	5992		5992		0	SPACE	20	1	40	40
41	41				6240			6240	0	SPACE	20	1	42	42
				TOTAL CONNECTED LOAD (VA) :		42720	34803	32176						
				25% LCL/LML (VA) :		5400	5640	5400						
				TOTAL CALCULATED LOAD (VA) :		48120	40443	37576	TOTAL CALCULATED LOAD FOR PANEL:					
				TOTAL CALCULATED LOAD (AMPS) :		173.7	146.0	135.7	126139 VA					

PANEL SCHEDULE NOTES:

(1) UTILIZE (E) SPARE CIRCUIT BREAKER INSTALLED UNDER INCREMENT 1

(2) WORK DONE UNDER INCREMENT 1

PANEL: UB

EXISTING PANELBOARD | 175 AMP BUS, 120/208V, 3 PH, 4 W, 100% RATED NEUTRAL | MAIN: 175A CB | TRIP: THERMAL-MAGNETIC | A.I.C.: 10000 A | LOCATION: UNDER BLEACHERS | MOUNTING: POST/STRUT | ENCLOSURE: NEMA 3R

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	BREAKER AMP	BREAKER POLE	SERVES	VOLT-AMPERES LOAD	A	B	C	LOAD	SERVES	BREAKER AMP	BREAKER POLE	CIRCUIT PNL SPACE	CIRCUIT CKT NO.
1	1	20	1	S TRACK RECEPT BOXES (2)	720	11535			10815				2	2
3	3	20	1	N TRACK RECEPT BOXES (2)	1080		6624		5544	(N) PANEL 'RB' (1)	100	3	4	4
5	5	20	1	E LT. PL. RECPTS AND VIS... (2)	540			5985	5445				6	6
7	7	20	1	W LT. PL. RECPTS AND VIS... (2)	540	540			0	SPARE	20	1	8	8
9	9	20	1	HOME BLEACHER RECEPTACLES (2)	540		4271		3731	PANEL 'PB' (2)	100	2	10	10
11	11	20	1	SPARE				3081	3081				12	12
13	13	20	1	SPARE		716			716				14	14
15	15	20	1	SPARE	0		540		540	(N) PANEL 'TK' (1)	50	3	16	16
17	17	20	1	SPARE	0			35	35				18	18
19	19	20	1	SPARE	0	0			0	SPACE	20	1	20	20
21	21	20	1	SPARE	0		0			SPACE	20	1	22	22
23	23	20	1	SPARE	0			0		SPACE	20	1	24	24
25	25	20	1	SPARE	0	0			0	SPACE	20	1	26	26
27	27	20	1	SPARE	0		0		0	SPACE	20	1	28	28
29	29	20	1	SPARE	0			0	0	SPACE	20	1	30	30
31	31	20	1	SPARE	0	0			0	SPACE	20	1	32	32
33	33	20	1	SPARE	0		0		0	SPACE	20	1	34	34
35	35	20	1	SPARE	0			0	0	SPACE	20	1	36	36
37	37	20	1	SPARE	0	0			0	SPACE	20	1	38	38
39	39	20	1	SPARE	0		0		0	SPACE	20	1	40	40
41	41	20	1	SPARE	0			180	180	PANEL RECEPTACLE	20	1	42	42
				TOTAL CONNECTED LOAD (VA) :		12791	11435	9281						
				25% LCL/LML (VA) :		0	0	0						
				TOTAL CALCULATED LOAD (VA) :		12791	11435	9281	TOTAL CALCULATED LOAD FOR PANEL:					
				TOTAL CALCULATED LOAD (AMPS) :		106.6	95.3	77.3	33507 VA					

PANEL SCHEDULE NOTES:

(1) UTILIZE (E) SPARE CIRCUIT BREAKER INSTALLED UNDER INCREMENT 1

(2) WORK DONE UNDER INCREMENT 1

PANEL: CB

NEW PANELBOARD | 100 AMP BUS, 120/208V, 3 PH, 4 W, 100% RATED NEUTRAL | MAIN: 100A CB | TRIP: THERMAL-MAGNETIC | A.I.C.: 10000 A | LOCATION: JANITOR 103 | MOUNTING: SURFACE PER 6/E600 | ENCLOSURE: NEMA 1

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	BREAKER AMP	BREAKER POLE	SERVES	VOLT-AM... LOAD	A	B	C	LOAD	SERVES	BREAKER AMP	BREAKER POLE	CIRCUIT PNL SPACE	CIRCUIT CKT NO.
1	1	20	1	RECEPTACLES - CONCESSION WEST	360	584			224	EXHAUST FAN 'EF-4'	15	1	2	2
3	3	20	1	RECEPTACLE - ICE MAKER	1000		1350		350	EXHAUST FAN 'EF-5'	15	1	4	4
5	5	20	1	RECEPTACLE - FREEZER	1000			1128	128	EXHAUST FAN 'EF-6'	15	1	6	6
7	7	20	1	RECEPTACLE - REFRIGERATOR	1000	1285			285	EXHAUST FAN 'EF-7'	15	1	8	8
9	9	20	1	RECEPTACLES - REGISTERS	500		1426		926	'ODU-1'	25	2	10	10
11	11	20	1	RECEPTACLE-FOOD EQUIPMENT	500			1426	926				12	12
13	13	20	1	RECEPTACLE-FOOD EQUIPMENT	500	604			104	'IDU-1'	15	2	14	14
15	15	20	1	RECEPTACLE-FOOD EQUIPMENT	500		604		104				16	16
17	17	20	1	RECEPTACLES-COUNTER CONV.	360			2606	2246	'WH-1'	25	2	18	18
19	19	20	1	RECEPT-STORAGE AND EAST CONC.	720	2966			2246				20	20
21	21	20	1	RECEPTS - RESTROOMS AND ELEC RM	540		1716		1176	'CP-1'	20	1	22	22
23	23	20	1	TELEPHONE BACKBOARD	500			580	80	EXHAUST FAN 'EF-8'	20	1	24	24
25	25	20	1	'IDF-CB'	1200	1200			0	SPACE	20	1	26	26
27	27	20	1	FABP-CB'	500		500		0	SPACE	20	1	28	28
29	29	20	1	SPARE	0			0	0	SPACE	20	1	30	30
31	31	20	1	SPARE	0	0			0	SPACE	20	1	32	32
33	33	20	1	SPARE	0		0		0	SPACE	20	1	34	34
35	35	20	1	SPARE	0			0	0	SPACE	20	1	36	36
37	37	20	1	INTERIOR LIGHTING	650	650			0	SPACE	20	1	38	38
39	39	20	1	EXTERIOR LIGHTING	396		396		0	SPACE	20	1	40	40
41	41	20	1	'LCP-CB'	500			500	0	SPACE	20	1	42	42
				TOTAL CONNECTED LOAD (VA) :		7289	5992	6240						
				25% LCL/LML (VA) :		0	0	0						
				TOTAL CALCULATED LOAD (VA) :		7289	5992	6240	TOTAL CALCULATED LOAD FOR PANEL:					
				TOTAL CALCULATED LOAD (AMPS) :		60.7	49.9	52.0	19521 VA					

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MARK	DATE	DESCRIPTION
	12-12-18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL: 02-116986
AC FLS KG
DATE: 11 DEC 2018

TETER, LLP
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO
ARCHITECTS ENGINEERS CONNECTED

STADIUM MODERNIZATION INCREMENT NO. 1
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
PANEL SCHEDULES

PROJECT NO.
18-10748

DRAWING
E801-2

PLOT DATE: 12/7/2018 1:11:25 PM

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PANEL: RB

100 AMP BUS | MAIN: 100A CB | LOCATION: JANITOR 203
NEW | 120/208V, 3 PH, 4 W | TRIP: THERMAL-MAGNETIC | MOUNTING: SURFACE PER 6/E600
PANELBOARD | 100% RATED NEUTRAL | A.I.C.: 10000 A | ENCLOSURE: NEMA 1

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	BREAKER AMP	BREAKER POLE	SERVES	VOLT-AMPERES LOAD	A	B	C	LOAD	SERVES	BREAKER AMP	BREAKER POLE	CIRCUIT PNL SPACE	CIRCUIT CKT NO.
1	1	20	1	RECEPTACLES STORAGE, GIRLS RR	360	645			285	EXHAUST FAN 'EF-1'	15	1	2	2
3	3	20	1	RECEPTACLES JANITOR, BOYS RR	360		488		128	EXHAUST FAN 'EF-2'	15	1	4	4
5	5	20	1	TELEPHONE BACKBOARD	500			785	285	EXHAUST FAN 'EF-3'	15	1	6	6
7	7	20	1	'IDF-RB'	1200	5360			4160	'IWH-1'	40	2	8	8
9	9	20	1	'FABP-RB'	500		4660		4160				10	10
11	11	20	1	SPARE	0			4160	4160	'IWH-1'	40	2	12	12
13	13	20	1	SPARE	0	4160			4160				14	14
15	15	20	1	SPARE	0		0		0	SPACE	20	1	16	16
17	17	20	1	SPARE	0			0	0	SPACE	20	1	18	18
19	19	20	1	SPARE	0	0			0	SPACE	20	1	20	20
21	21	20	1	SPARE	0		0		0	SPACE	20	1	22	22
23	23	20	1	SPARE	0			0	0	SPACE	20	1	24	24
25	25	20	1	SPARE	0	0			0	SPACE	20	1	26	26
27	27	20	1	SPARE	0		0		0	SPACE	20	1	28	28
29	29	20	1	SPARE	0			0	0	SPACE	20	1	30	30
31	31	20	1	SPARE	0	0			0	SPACE	20	1	32	32
33	33	20	1	SPARE	0		0		0	SPACE	20	1	34	34
35	35	20	1	SPARE	0			0	0	SPACE	20	1	36	36
37	37	20	1	INTERIOR LIGHTING	650	650			0	SPACE	20	1	38	38
39	39	20	1	EXTERIOR LIGHTING	396		396		0	SPACE	20	1	40	40
41	41	20	1	'LCP-CB'	500			500	0	SPACE	20	1	42	42
				TOTAL CONNECTED LOAD (VA) :		10815	5544	5445						
				25% LCL/LML (VA) :		0	0	0						
				TOTAL CALCULATED LOAD (VA) :		10815	5544	5445	TOTAL CALCULATED LOAD FOR PANEL:					
				TOTAL CALCULATED LOAD (AMPS) :		90.1	46.2	45.4	21804 VA					

PANEL: TB

60 AMP BUS | MAIN: 60A CB | LOCATION: TICKET BOOTH
NEW | 120/208V, 3 PH, 4 W | TRIP: THERMAL-MAGNETIC | MOUNTING: FLUSH PER 11/E600
PANELBOARD | 100% RATED NEUTRAL | A.I.C.: 10000 A | ENCLOSURE: NEMA 1

CIRCUIT CKT NO.	CIRCUIT PNL SPACE	BREAKER AMP	BREAKER POLE	SERVES	VOLT-AMPERES LOAD	A	B	C	LOAD	SERVES	BREAKER AMP	BREAKER POLE	CIRCUIT PNL SPACE	CIRCUIT CKT NO.
1	1	20	1	RECEPTACLES	540	540			0	SPACE	20	1	2	2
3	3	20	1	RECEPTACLES	540		540		0	SPACE	20	1	4	4
5	5	20	1	INTERIOR FAN/LIGHTING	35			35	0	SPACE	20	1	6	6
7	7	20	1	EXTERIOR LIGHTING	176	176			0	SPACE	20	1	8	8
9	9	20	1	SPARE	0		0		0	SPACE	20	1	10	10
11	11	20	1	SPARE	0			0	0	SPACE	20	1	12	12
				TOTAL CONNECTED LOAD (VA) :		716	540	35						
				25% LCL/LML (VA) :		0	0	0						
				TOTAL CALCULATED LOAD (VA) :		716	540	35	TOTAL CALCULATED LOAD FOR PANEL:					
				TOTAL CALCULATED LOAD (AMPS) :		6.0	4.5	0.3	1291 VA					

LIGHTING CONTROL PANEL 'LCP-CB'

nLIGHT RELAY PANEL MODEL: ARP INTENCO8 NLT 4FCR MVOLT 1VB HLK SM
120/277V WITH FOUR 30AMP RELAYS AND
CA TITLE 24 COMPLIANT ASTRONOMIC TIME CLOCK

LOCATION: ELECTRICAL ROOM
MOUNTING: SURFACE PER 6/E600
ENCLOSURE: NEMA 1

LOW VOLTAGE INPUT			HIGH VOLTAGE OUTPUT			
CONTROL SCHEME	DEVICE ADDRESS	DEVICE	PANEL	CIRCUIT	WATTAGE	DESCRIPTION
ATC*	nRP 1 Relay 1	Relay 1	CB	39	120	BUILDING EXTERIOR
ATC*	nRP 2 Relay 2	Relay 2				SPARE
ATC*	nRP 3 Relay 3	Relay 3				SPARE
ATC*	nRP 4 Relay 4	Relay 4				SPARE
	nRP Main (Sensor)	SPACE				

NOTES:
* Astronomic Time Clock (ATC) through SensorView software.

LIGHTING CONTROL PANEL 'LCP-RB'

nLIGHT RELAY PANEL MODEL: ARP INTENCO8 NLT 4FCR MVOLT 1VB HLK SM
120/277V WITH FOUR 30AMP RELAYS AND
CA TITLE 24 COMPLIANT ASTRONOMIC TIME CLOCK

LOCATION: ELECTRICAL ROOM
MOUNTING: SURFACE PER 6/E600
ENCLOSURE: NEMA 1

LOW VOLTAGE INPUT			HIGH VOLTAGE OUTPUT			
CONTROL SCHEME	DEVICE ADDRESS	DEVICE	PANEL	CIRCUIT	WATTAGE	DESCRIPTION
ATC*	nRP 1 Relay 1	Relay 1	RB	39	120	RESTROOM BUILDING EXTERIOR
ATC*	nRP 2 Relay 2	Relay 2	TB	4	120	TICKETBOOTH BUILDING EXTERIOR
ATC*	nRP 3 Relay 3	Relay 3				SPARE
ATC*	nRP 4 Relay 4	Relay 4				SPARE
	nRP Main (Sensor)	SPACE				

NOTES:
* Astronomic Time Clock (ATC) through SensorView software.

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MARK	DATE	DESCRIPTION
	12-12-18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL: 02-116986
AC FLS SS KG
DATE: 11 DEC 2018

REGISTERED PROFESSIONAL ENGINEER COREY J. STONE No. E-21718 ELECTRICAL 12-7-18

TETER, LLP
ARCHITECTS ENGINEERS CONNECTED
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

STADIUM MODERNIZATION INCREMENT NO. 1
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA

DRAWING TITLE
PANEL SCHEDULES

PROJECT NO.
18-10748

DRAWING
E802-2

PLOT DATE: 12/7/2018 1:11:26 PM

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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.		
Project Name: Madera South HS Stadium Expansion	Report Page:	Page 1 of 6
Project Address: 705 W. Pecan Ave.	Date Prepared:	9/20/2018

A. GENERAL INFORMATION

01	Project Location (city)	Madera	04 Total Illuminated Hardscape Area (ft²)	26,030
02	Climate Zone	13		
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):			

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Rural Areas ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Developed Parkland ☑ LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE
Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02
☑ New Lighting System	Must Comply with Allowances from §140.7.
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100*

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

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L													Compliance Results		
01		02		03		04		05		06		07	08		09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+	Per Specific Area §140.7(d)2	OR	Existing Power §141.0(b)2L	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 Must be ≥ 08
(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		(See Table N)				(See Table F)	
1,962.3	+		+		+		+		OR		=	1,962.3	≥	968	COMPLIES
Cutoff Compliance (See Table G for Details)														Not Applicable	
Controls Compliance (See Table H for Details)														COMPLIES	

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 9/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Madera South HS Stadium Expansion	Report Page:	Page 2 of 6
Project Address: 705 W. Pecan Ave.	Date Prepared:	9/20/2018

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

No exceptional conditions apply to this project.

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
This Section Does Not Apply

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (le Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (le Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1]	How Wattage is determined	Total number luminaires	Luminaire Status[1]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 150W §130.2(b)[1]	Field Inspector Pass	Field Inspector Fail
W1	44 W LED	44	NA8 Default	22	New	☐	968		☐	☐
						Total Designed Watts:	968			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

G. CUTOFF REQUIREMENTS (BUG)
This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS
This Section Does Not Apply

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Outdoor Lighting
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H. OUTDOOR LIGHTING CONTROLS
Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 07, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

01	02	03	04	05	06	07	08	
Area Description	Motion Sensor: Incandescent>100W §130.2(a)	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Sales Frontage §130.2(c)4	Façade, Ornament, Outdoor Dining §130.2(c)5	Field Inspector Pass	Field Inspector Fail
WALL PACKS	NA: No Incand>100W	Astronomical Time	Yes	Yes	NA: No Sales Front Ltg	No Applicable Lt	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

I. LIGHTING POWER ALLOWANCE (per §140.7)
Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

	01 "Use it or lose it" Allowance (Watts)				
	General Hardscape Allowance	Per Application	Sales Frontage	Ornamental	Per Specific Area
	☑	☐	☐	☐	☐
	Table I (below)	Table J	Table K	Table L	Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
WALL PACKS	26,030	0.04	1,041.2	1,146	0.35	401.1	1,442.3
					Initial Wattage Allowance for Entire Site (Watts):		520
					Total General Hardscape Allowance (Watts):		1,962.3

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J. LIGHTING ALLOWANCE: PER APPLICATION
This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL
This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCI

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	○	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

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P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

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Project Address: 705 W. Pecan Ave.	Date Prepared:	9/20/2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name:	Evan Bastian	Documentation Author Signature:	
Company:	Teter Architects & Engineers	Signature Date:	09/20/18
Address:	7535 N. Palm Ave #201	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Fresno, CA 93711	Phone:	(559)437-0887

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

Responsible Designer Name:	Evan Bastian	Responsible Designer Signature:	
Company :	TETER, LLP	Date Signed:	09/20/18
Address:	7535 N Palm Ave, Suite 201	License:	E19509
City/State/Zip:	Fresno, CA 93711	Phone:	559-437-0887

PLOT DATE: 12/7/2018 1:11:27 PM

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MARK	DATE	DESCRIPTION
	12-12-18	100% CD DSA APPROVAL

FILE NUMBER: 20-H3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL: 02-116986
AC FLS SS KQ
DATE: 11 DEC 2018

TETER, LLP
ARCHITECTS ENGINEERS CONSULTANTS
FRESNO HEADQUARTERS
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO

STADIUM MODERNIZATION INCREMENT NO. 1
MADERA SOUTH HIGH SCHOOL
MADERA UNIFIED SCHOOL DISTRICT
MADERA, CA
DRAWING TITLE
CALIFORNIA ENERGY CODE COMPLIANCE

PROJECT NO.
18-10748

DRAWING
E900-2