TENNYSON HIGH SCHOOL
BUILDING G MODERNIZATION

27035 WHITMAN ST, HAYWARD, CA 94544

HAYWARD UNIFIED SCHOOL DISTRICT

DSA SUBMITTAL

DSA FILE NO: 1-H6

DSA APPLICATION NO: 01-122019

PTN: 61192-223

PROJECT TEAM

OWNER	ARCHITECT	CONSTRUCTION MANAGER	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ELECTRICAL ENGINEER
Hayward Unified School District 24411 Amador Street Hayward, CA 94544 Phone: 510-784-2600 FMOT Director: Miguel Cruz Email: mcruz@husd.k12.ca.us	Quattrocchi Kwok Architects 636 Fifth Street Santa Rosa, CA 95404 Phone: 707-576-0829 Fax: 707-576-0295 Contact: Lyanne Schuster Email: lyannes@qka.com	Van Pelt Construction Services 450 Chadbourne Road, Suite B Fairfield, CA 94534 Phone: 707- 438-3790 Contact: Prachi Amin Email: prachi.amin@vpcsonline.com	ZFA Structural Engineers 1212 Fourth Street, Suite Z Santa Rosa, CA 95404 Phone: 707-526-0992 Fax: 707-526-0217 Email: chrisw@zfa.com	Costa Engineers 3274 Villa Lane Napa, CA 94558 Phone: 707-252-9177 Fax: 707-252-6473 Email: cdelcore@costaengineers.com	O'Mahony & Myer 4340 Redwood Highway, Suite 245 San Rafael, CA 94903 Phone: 415-492-0420 Fax: 415-479-6962 Email: pcolenbrander@ommconsulting.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS
Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

LICENSED ARCHITECT
JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
STATE OF CALIFORNIA
SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED SCHOOL DISTRICT

DSA APP NO. 01-122019
ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

BID SET 2026
4.15.2026

SHEET TITLE

COVER SHEET

SHEET NUMBER

G-0.1

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM

ABBREVIATIONS

&	AND
L	ANGLE
@	AT
℄	CENTERLINE
'	FEET
"	INCHES
d	PENNY
#	POUND/ NUMBER
AB	ANCHOR BOLT
ABBREV	ABBREVIATION
AC	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADJ	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BO	BY OWNER
BRK	BREAK
BRG	BEARING
BTWN	BETWEEN
BU	BUILT-UP
BUR	BUILT-UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CER	CERAMIC
CI	CAST IRON
CIR	CIRCLE
CJ	CONTROL JOINT
CORR	CORRIDOR
CL	CLOSET/ CENTER LINE
CLG	CEILING
CLR	CLEAR
CLS	CLOSURE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPOSITION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSINK
CUST	CUSTODIAN
CW	COLD WATER
DBL	DOUBLE
DEMO	DEMOLITION / DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DRAIN INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPOSAL
DIV	DIVISION
DN	DOWN
DO	DOOR OPENING
DIR	DIRECTLY
DR	DOOR
DSA	DIVISION OF STATE ARCHITECT
DS	DOWN SPOUT
DSP	DRY STAND PIPE
DT	DRAIN TILE
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	EAST
(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EE	EACH END
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION GRADE
ELEC	ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
ENCL	ENCLOSURE
EP	ELECTRIC PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FACE
FA	FIRE ALARM
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FGL	FIBERGLAS
FH	FIRE HYDRANT
FHMS	FLAT HEAD MACHINE SCREW
FHS	FIRE HOSE STATION
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR LINE
FLASH	FLASHING
FLUOR	FLUORESCENT
FLR	FLOOR
FM / FOM	FACE OF MASONRY
FN	FACE NAIL
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FRMG	FRAMING
FR	FIRE-RESISTANT
FRP	FIBERGLASS REINFORCED PANEL
FT	FEET
FTG	FOOTING
FURR	FURRING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GL	GLASS/ GLAZING
GL	GLASS/ GLAZING
GLB	GLUE LAMINATED BEAM
GND	GROUND
GR	GRADE
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR-CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
INTEG	INTEGRAL
INTERMED	INTERMEDIATE
INV	INVERT
JH	JOIST HANGER
JST	JOIST
JT	JOINT
KIT	KITCHEN
KP	KICK PLATE
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LL	LIVE LOAD
LP	LOW POINT
LT	LIGHT
MAT	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODULAR
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MUL	MULLION
N	NORTH
(N)	NEW
NAT	NATURAL
N.I.C.	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
N.T.S.	NOT TO SCALE
O/	OVER
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVERFLOW
OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
O.L.F.	OCCUPANT LOAD FACTOR
OFF	OFFICE
OPNG	OPENING
OPP	OPPOSITE
OVHD	OVERHEAD
PC	PORTLAND CEMENT
P.C.F.	POUNDS PER CUBIC FOOT
PDA	POWER DRIVEN ANCHOR
PERF	PERFORATED
PH	PLATE HEIGHT
PL	PLATE
P/L	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER/ PLASTIC
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
P.O.C.	POINT OF CONTACT
P.O.T.	PATH OF TRAVEL
PR	PAIR
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTDF	PRESSURE TREATED DOUGLAS FIR
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RISER
R / RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGULAR
REQD	REQUIRED
REINF	REINFORCED
RH	ROOF HATCH
RHMS	ROUND HEAD MACHINE SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
RWD	REDWOOD
S	SOUTH
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.AV.D.	SEE AUDIOVIDEO DRAWINGS
SC	SOLID CORE
S.C.D.	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
S.E.D.	SEE ELECTRICAL DRAWINGS
SEP	SEPARATION
S.F.PD.	SEE FIRE PROTECTION DRAWINGS
SHTG	SHEATHING
SIM	SIMILAR
SL	SLIDING
S.L.D.	SEE LANDSCAPE DRAWINGS
SM	SHEET METAL
S.M.D.	SEE MECHANICAL DRAWING
SOV	SHUT OFF VALVE
S.P.D.	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
S.S.D.	SEE STRUCTURAL DRAWINGS
S.TH.D.	SEE THEATER DRAWINGS
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T	TREAD
T&B	TOP & BOTTOM
TC	TOP OF CURB
TEL	TELEPHONE
TER	TERRAZZO
T&G	TONGUE & GROOVE
TH	THICK
THRU	THROUGH
TJ	TOOL JOINT
TN	TOE NAIL
T.O.D.	TOP OF DECK
T.O.P.	TOP OF PLATE
T.O.R.	TOP OF ROOF
T.O.W.	TOP OF WALL
T.P.	TOP OF PAVEMENT
TRN	TRANSOM
TRANS	TRANSPARENT
TS	TUBE STEEL
TUB	TUBULAR
TV	TELEVISION
TW	TACKWALL
TYP	TYPICAL
UNF	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UR	URINAL
UTIL	UTILITY
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
V.I.F.	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
W/O	WITHOUT
WP	WATER PROOF
W.P.	WORK POINT
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT
WWY	WALKWAY
YD	YARD

LEGEND

ALL NOTES AND SYMBOLS ARE INTENDED TO APPLY AT ALL OTHER LOCATIONS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY. NO LIMITATION OF APPLICATION IS INTENDED EXCEPT AS SPECFICALLY NOTED.

AA A1	COLUMN GRIDS A AND 1 IN BUILDING A
6'-0"	DIMENSION TO FACE OF STUD OR MASONRY
6'-0"	DIMENSION TO FACE OF FINISH
6'-0"	DIMENSION TO CENTER LINE OR COLUMN LINE
12'-0"	RELATIVE ELEVATION DIMENSION
B101A	DOOR A IN ROOM NUMBER 101 IN BUILDING B ACCESSIBLE CLEARANCES SHOWN DASHED SEE 3 / A-8.1
W03	WINDOW NUMBER W03
11 / A-9.12	DETAIL NUMBER 11 ON SHEET NUMBER A-9.12
3 / A-B6.2	SECTION NUMBER 3 ON SHEET NUMBER A-B6.2
2 / A-B5.3	ELEVATION NUMBER 2 ON SHEET NUMBER A-B5.3

FLOOR PLAN

CLASSROOM	ROOM NAME
A204	ROOM NUMBER 204 IN BUILDING A
A-A7.6	INTERIOR ELEVATION SHOWN ON SHEET A-A7.6

REFLECTED CLG PLAN

CLASSROOM	ROOM NAME
A204	ROOM NUMBER 204 IN BUILDING A
CL-6	CEILING FINISH CODE CL-6
10'-0"	FINISH CEILING HEIGHT 10'-0"

FINISH FLR PLAN

CLASSROOM	ROOM NAME
A204	ROOM NUMBER 204 IN BUILDING A
P1	WALL FINISH CODE P1
B1	WALL BASE FINISH CODE B1
CPT1	FLOOR FINISH CODE CPT1

33	KEYNOTE NUMBER 33
8"	METAL WALL FRAMING SIZE 8"
A	WALL COMPOSITION TYPE
C	TOILET ACCESSORY C
222	ARCHITECTURAL WOODWORK STANDARDS (AWS) CABINET DESIGN SERIES (CDS) IDENTIFIER
E1	ROOM / BUILDING ACCESSIBLE SIGNAGE TYPE E1. SEE ARCHITECTURAL GRAPHICS PLAN & ACCESSIBLE SIGNAGE DETAIL
W.P.	RELATIVE ORIGIN OR WORK POINT
A	EQUIPMENT TAG REFER TO EQUIPMENT SCHEDULE

GENERAL NOTES

1. ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS.

   ALL WORK NOT INDICATED AS EXISTING (E) IS NEW.

2. ALL FRAMING DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
   - DO NOT SCALE DRAWINGS.
   - VERIFY ALL DIMENSIONS WHERE WORK INVOLVES FRAMING FOR WINDOWS, DOORS, OR CABINETS.

3 ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL

4. GOVERNING CODES: A COPY OF TITLE 24 PARTS 1-5 AND PART 9 SHALL BE KEPT ON THE JOB AT ALL TIMES.
   CALIFORNIA CODE OF REGULATIONS TITLE 24 BUILDING STANDARDS CODE:
   PART 1 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
   PART 2 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
   (2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, 2022 CALIFORNIA AMENDMENTS)
   PART 3 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
   (2020 NATIONAL ELECTRICAL CODE, 2022 CALIFORNIA AMENDMENTS)
   PART 4 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
   (2021 IAPMO UNIFORM MECHANICAL CODE, 2022 CALIFORNIA AMENDMENTS)
   PART 5 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
   (2021 IAPMO UNIFORM PLUMBING CODE, 2022 CALIFORNIA AMENDMENTS)
   PART 6 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
   PART 9 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
   (2021 INTERNATIONAL FIRE CODE, 2022 CALIFORNIA AMENDMENTS)
   PART 10 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
   (2021 INTERNATIONAL EXISTING BUILDING CODE, 2022 CALIFORNIA AMENDMENTS)
   PART 11 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL-GREEN), PART 11, TITLE 24 CCR
   PART 12 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
   TITLE 19 CCR, PUBLIC SAFETY CODE, STATE FIRE MARSHAL REGULATIONS
   2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN
   2016 ASME A17.1-16/CSA B44-16 SAFETY CODE FOR ELEVATORS AND ESCALATORS
   NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME 17.1 BY ADOPTION

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

NFPA 13	INSTALLATION OF FIRE SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	WET CHEMICAL FIRE EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2019 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2019 EDITION
NFPA 25	CALIFORNIA EDITION - TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 110	EMERGENCY AND STANDBY POWER SYSTEMS	2019 EDITION
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS	2018 EDITION
NFPA 253	2019 EDITION	
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2018 EDITION
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2017 EDITION
UL 38	MANUALLY ACTUATED SIGNALING BOXES, REV THROUGH FEB 2, 2005	1999 EDITION
UL 268	SMOKE DETECTORS FOR FIRE ALARM SYSTEMS, REV THROUGH JULY 2016	2016 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 305	PANIC HARDWARE, WITH REVISIONS THROUGH MARCH 2017	2012 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 864	CONTROL UNITS AND ACCESSORIES FOR FIRE ALARM SYSTEMS, REV THROUGH MARCH 2018	2014 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2018 EDITION
UL 2034	STANDARD FOR SINGLE AND MULTIPLE CARBON MONOXIDE ALARMS	2017 EDITION

6. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) IN ACCORDANCE WITH TITLE 24 PART 1 CHAPTER 4: THE ADMINISTRATIVE REGULATIONS FOR THE DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY (DSA/SS)
   PROJECT INSPECTOR CERTIFICATION REQUIREMENT PER 4-333.1: CLASS 1
   - 4-331 DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION.
   - 4-332 WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN ONE MONTH, THE PROJECT INSPECTOR SHALL INFORM DSA.
   - 4-333(a) OBSERVATION OF THE WORK SHALL BE BY ARCHITECT OR REGISTERED ENGINEER.
   - 4-333(b) A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
   - 4-334 SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH THIS SECTION.
   - 4-335 A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT IN ACCORDANCE WITH THIS SECTION. COSTS OF RE-TEST MAY BE BACKCHARGED TO THE CONTRACTOR. ALL TESTS AND TESTING LAB SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335 AND APPROVED T & I SHEET (DSA-103)
   - 4-336 VERIFIED REPORTS SHALL BE SUBMITTED BY CONTRACTORS (DSA 006-C), INSPECTORS (DSA 006-PI), ARCHITECTS AND ENGINEERS (DSA 006-AE) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343.
   - 4-337 SEMI-MONTHLY REPORTS SHALL BE SUBMITTED BY INSPECTORS (DSA - 155), IN ACCORDANCE WITH SECTIONS 4-337.
   - 4-338 WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE APPROVED PLANS, ADDENDA AND CONSTRUCTION DOCUMENTS. CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. ADDENDA AND CHANGE DOCUMENTS SHALL BE STAMPED AND SIGNED BY THE ARCHITECT OR REGISTERED ENGINEER IN CHARGE
   - 4-341(a) THE ARCHITECT AND THE REGISTERED ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
   - 4-343 THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH THIS SECTION.

7. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 C.C.R. A CONSTRUCTION CHANGE DOCUMENT (CCD), OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)

8. COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION SHALL BE ENFORCED.

9. EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.

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

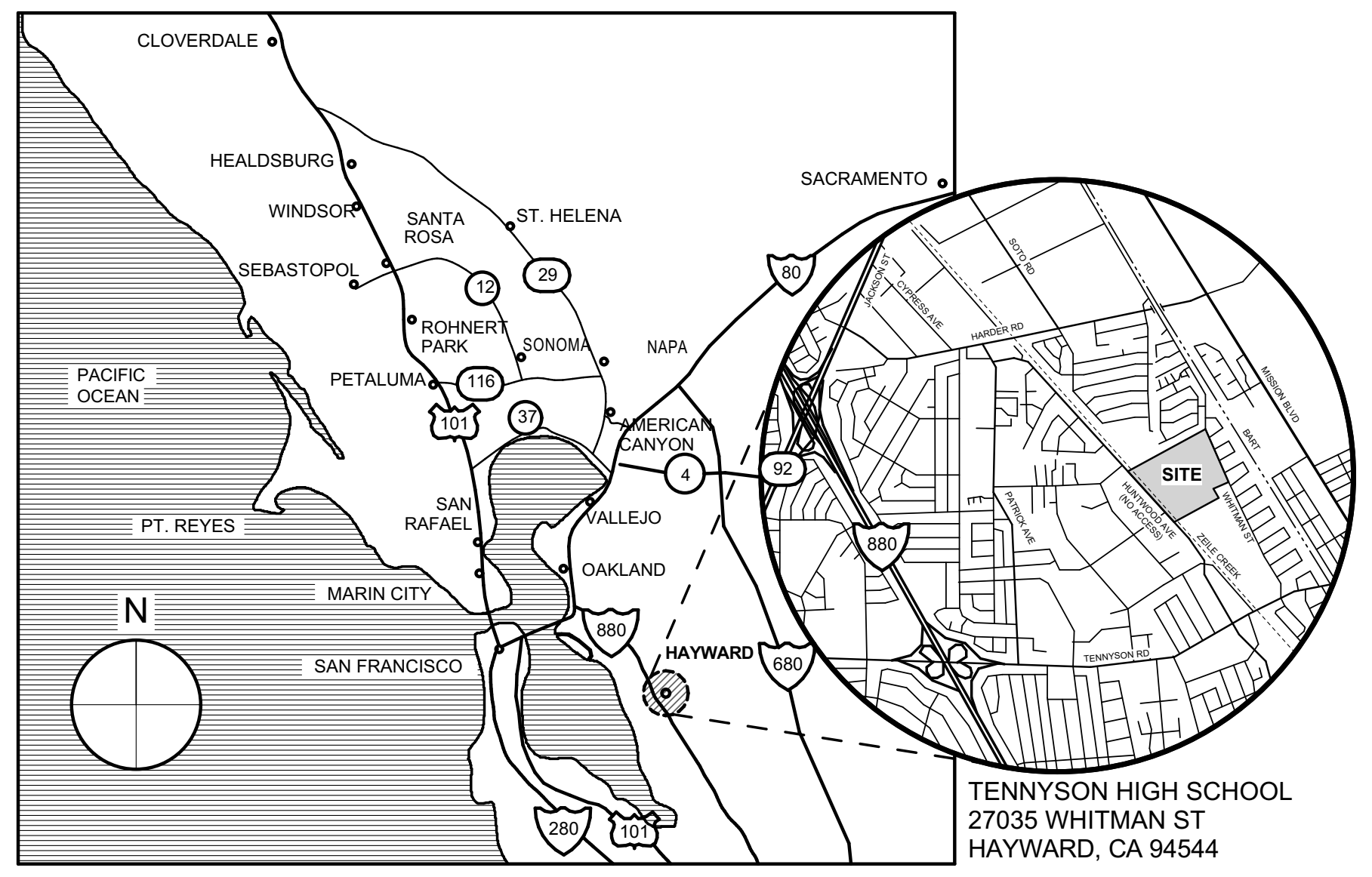
11. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMNET OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.

12. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
    - LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
    - MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
    - ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER / ARCHITECT OF RECORD, OR OWNER'S AGENT.
    - A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
    - THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
    - PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

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

14. ONCE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL VERIFY DESIGN, EQUIPMENT SPECIFICATIONS, TESTING, AND ACCEPTANCE CRITERIA FOR EMERGENCY RESPONDER RADIO COVERAGE WITH THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY. THE CONTRACTOR SHALL FACILITATE ANY NECESSARY TESTING AND SYSTEM ENHANCEMENTS REQUIRED BY THE LOCAL

VICINITY MAP



TENNYSON HIGH SCHOOL
27035 WHITMAN ST
HAYWARD, CA 94544

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF ALTERATIONS TO GYMNASIUM BUILDING G. WORK CONSISTS OF BUT IS NOT LIMITED TO: NEW FINISHES, PATCHING AND REPAIRING OF EXISTING FINISHES; MULTI-TIER LOCKER REPLACEMENT AND VARSITY TEAM ROOM LOCKER REPLACEMENT; MECHANICAL, PLUMBING AND LIGHT FIXTURE REPLACEMENT; RECONFIGURATION OF ROOMS, RECLASSIFICATION OF OCCUPANCY USAGE IN CERTAIN ROOMS.

CONTINGENT PROJECT: DSA CERTIFICATION OF THE CURRENT PROJECT 01-122019 IS CONTINGENT UPON THE CERTIFICATION OF 01-119941.

DEFERRED APPROVALS

NONE

SHEET INDEX

(61 TOTAL SHEETS)

GENERAL (6 SHEETS)

G-0.1 COVER SHEET
G-0.2 ABBREVIATIONS AND NOTES
G-0.3 OVERALL SITE PLAN
G-0.4 ACCESS SITE PLAN
G-0.5 CAMPUS SITE PLAN
G-0.6 BUILDING G EXITING PLAN

ARCHITECTURAL (15 SHEETS)

A-1.1 SITE DETAILS
A-G2.0 BUILDING G DEMOLITION PLAN
A-G2.1 BUILDING G FLOOR PLAN
A-G2.2 BUILDING G FINISH PLAN
A-G3.1 BUILDING G REFLECTED CEILING PLAN
A-G7.1 BUILDING G INTERIOR ELEVATIONS
A-G7.2 BUILDING G INTERIOR ELEVATIONS
A-G7.3 BUILDING G INTERIOR ELEVATIONS
A-G7.4 BUILDING G INTERIOR ELEVATIONS
A-G7.5 BUILDING G INTERIOR ELEVATIONS
A-G7.6 BUILDING G INTERIOR ELEVATIONS
A-8.1 DOOR SCHEDULE
A-9.1 DETAILS
A-10.1 DETAILS
A-10.2 DETAILS

STRUCTURAL (2 SHEETS)

S-0.1 GENERAL NOTES AND TYPICAL DETAILS
S-2.1 BUILDING G FOUNDATION PLAN

MECHANICAL (6 SHEETS)

M-1.1 HVAC SCHEDULES AND LEGENDS
MD-2.1 MECHANICAL DEMOLITION PLAN - BLDG G
M-2.1 MECHANICAL FLOOR PLAN
M-2.2 MECHANICAL ROOF PLAN
M-3.1 MECHANICAL DETAILS
M-4.1 CONTROL DIAGRAMS

PLUMBING (11 SHEETS)

P-1.1 PLUMBING SCHEDULES & LEGENDS
PD-2.1 PLUMBING WASTE AND VENT DEMOLITION PLAN - BLDG G
PD-2.2 PLUMBING WATER DEMOLITION PLAN - BLDG G
P-2.1 PLUMBING WASTE AND VENT PLAN - BLDG G
P-2.2 PLUMBING WATER PLAN - BLDG G
P-2.3 PLUMBING ROOF PLAN
P-2.4 PLUMBING WASTE - BLDG G GIRLS LOCKER ROOM
P-2.5 PLUMBING WATER - BLDG G GIRLS LOCKER ROOM
P-2.6 PLUMBING WASTE - BLDG G BOYS LOCKER ROOM
P-2.7 PLUMBING WATER - BLDG G BOYS LOCKER ROOM
P-3.1 PLUMBING DETAILS

ELECTRICAL (7 SHEETS)

E-0.1 SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS
E-0.2 LUMINAIRE SCHEDULE
E-G2.1 BLDG G FLOOR PLAN - LIGHTING
E-G3.0 BLDG G FLOOR PLAN - DEMOLITION
E-G3.1 BLDG G FLOOR PLAN - ELECTRICAL & TELECOM/SIGNAL
E-5.1 LIGHTING CONTROLS
E-8.1 TITLE 24 DOCUMENTATION

FIRE ALARM (4 SHEETS)

FE-0.2 FIRE ALARM EQUIPMENT LIST, NOTES & DETAILS
FE-1.1 REFERENCE SITE PLAN - FIRE ALARM
FE-G3.1 BLDG G FLOOR PLAN - FIRE ALARM
FE-5.1 RISER DIAGRAM AND CALCULATIONS - FIRE ALARM

TITLE 24 DOCUMENTATION (10 SHEETS)

T-1.1 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.2 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.3 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.4 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.5 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.6 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.7 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.8 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.9 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)
T-1.10 TITLE 24 DOCUMENTATION (DSA #01-119941 INC. 2)

Statement of General Conformance

DSA Application No **01-122019** File No **1-H6**

The drawings identified as follows:

☐ All drawing sheets included in this set not bearing my stamp and signature
☒ Drawings denoted in the sheet index as follows: STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM
☐ Drawings included under the following PC approval(s): ________________

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

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

2) Coordination with my drawings (plans) and specifications and are 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. (Title 24, Part 1, Section 4-316 (b))

Jim Theiss
Signature
6/4/2025
Date

Architect or Engineer designated to be in general responsible charge

Jim Theiss — Print Name
C22643 — License Number
June 30, 2025 — Expiration Date

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET 2026
4.15.2026

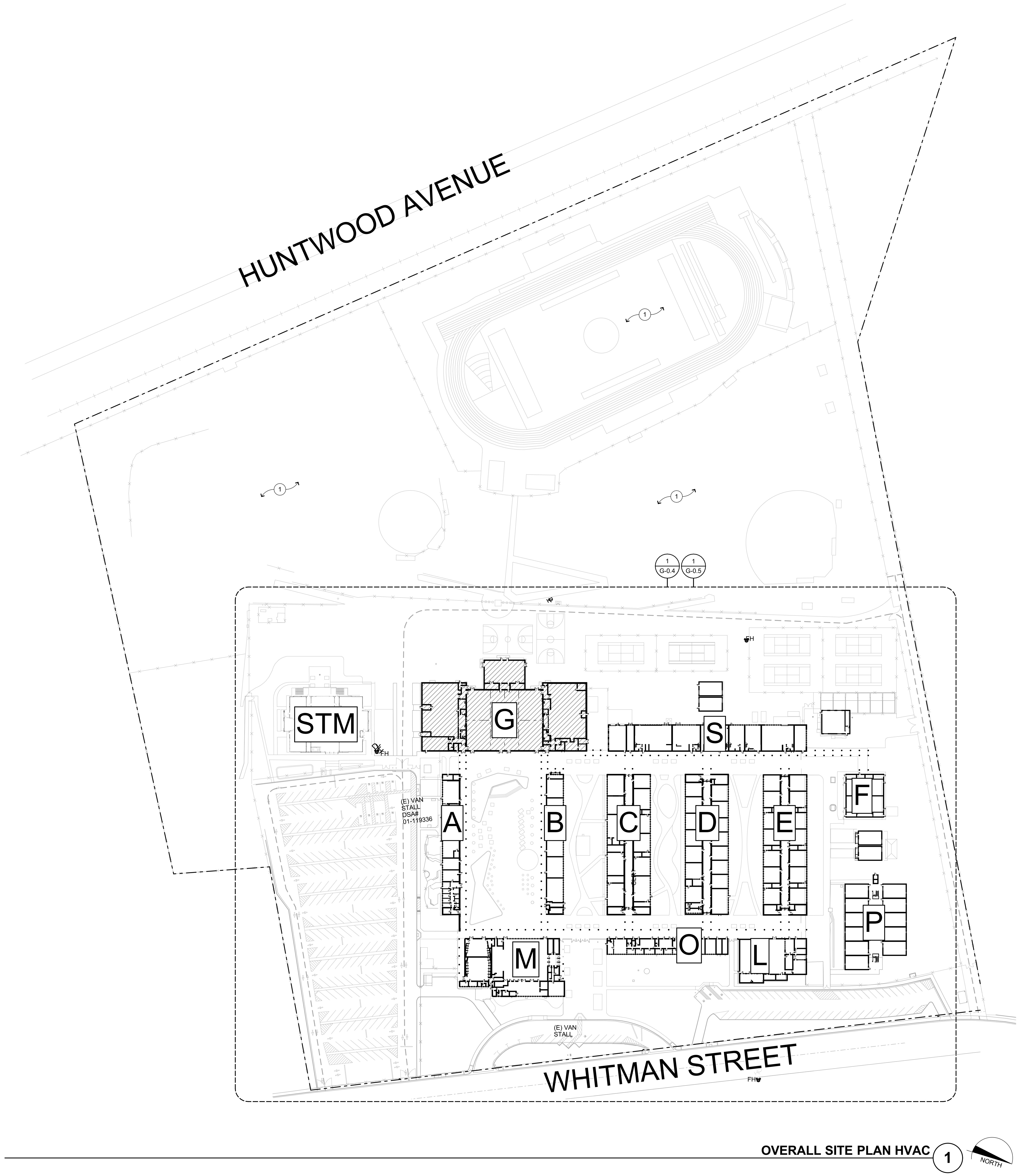
SHEET TITLE

ABBREVIATIONS AND NOTES

SHEET NUMBER

G-0.2

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM



OVERALL SITE PLAN HVAC ①

OVERALL SITE PLAN GENERAL NOTES

1. THIS PLAN CONTAINS PROPERTY INFORMATION ONLY. FOR DSA APPROVAL HISTORY, SEE SITE ACCESS AND CAMPUS SITE PLANS.
2. FOR SITE ACCESSIBILITY AND PARKING INFORMATION, SEE SITE ACCESS PLAN SHEET G-0.4.
3. FOR SITE CODE ANALYSIS AND EMERGENCY VEHICLE ACCESS, SEE CAMPUS SITE PLAN SHEET A-0.5.

OVERALL SITE PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

① (E) ATHLETIC FIELDS, NO WORK

OVERALL SITE PLAN LEGEND

▨	(E) BUILDING TO BE MODERNIZED
☐	(E) BUILDINGS TO REMAIN, NO WORK
— - — - —	(E) PROPERTY LINE
—×—×—×—	(E) FENCE
—+—+—+—	(E) RAILROAD LINE
FH	(E) FIRE HYDRANT

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HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV
DRAWING SCALE: 1" = 80'-0"
PTN: 61192-223 FILE NO: 1-H6

BID SET 2026
4.15.2026

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

G-0.3

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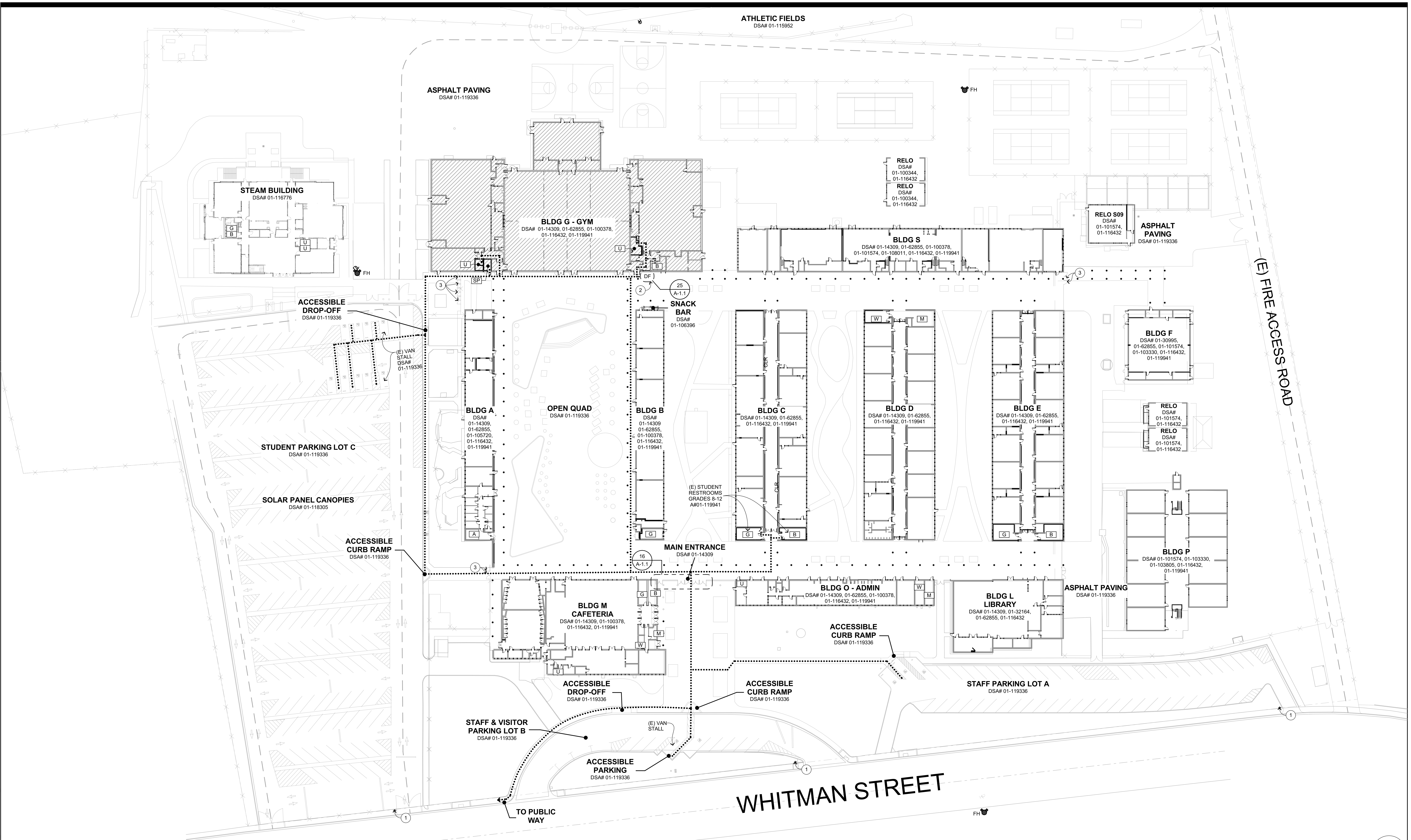
ATHLETIC FIELDS
DSA# 01-115952
ASPHALT PAVING
DSA# 01-119336
STEAM BUILDING
DSA# 01-116776
G
B
U
U
FH
BLDG G - GYM
DSA# 01-14309, 01-62855, 01-100378, 01-116432, 01-119941
U
U
SP
B
DF
2
25
A-1.1
3
SNACK BAR
DSA# 01-106396
RELO
DSA# 01-100344, 01-116432
RELO
DSA# 01-100344, 01-116432
RELO S09
DSA# 01-101574, 01-116432
ASPHALT PAVING
DSA# 01-119336
BLDG S
DSA# 01-14309, 01-62855, 01-100378, 01-101574, 01-108011, 01-116432, 01-119941
(E) FIRE ACCESS ROAD
ACCESSIBLE DROP-OFF
DSA# 01-119336
(E) VAN STALL
DSA# 01-119336
BLDG F
DSA# 01-30995, 01-62855, 01-101574, 01-103330, 01-116432, 01-119941
W
M
CLR
BLDG A
DSA# 01-14309, 01-62855, 01-105720, 01-116432, 01-119941
OPEN QUAD
DSA# 01-119336
BLDG B
DSA# 01-14309, 01-62855, 01-100378, 01-116432, 01-119941
BLDG C
DSA# 01-14309, 01-62855, 01-116432, 01-119941
BLDG D
DSA# 01-14309, 01-62855, 01-116432, 01-119941
BLDG E
DSA# 01-14309, 01-62855, 01-116432, 01-119941
RELO
DSA# 01-101574, 01-116432
RELO
DSA# 01-101574, 01-116432
STUDENT PARKING LOT C
DSA# 01-119336
SOLAR PANEL CANOPIES
DSA# 01-118305
(E) STUDENT RESTROOMS GRADES 8-12 A#01-119941
A
G
G
B
G
B
BLDG P
DSA# 01-101574, 01-103330, 01-103805, 01-116432, 01-119941
ACCESSIBLE CURB RAMP
DSA# 01-119336
MAIN ENTRANCE
DSA# 01-14309
16
A-1.1
3
BLDG O - ADMIN
DSA# 01-14309, 01-62855, 01-100378, 01-116432, 01-119941
U
W
M
ASPHALT PAVING
DSA# 01-119336
BLDG M CAFETERIA
DSA# 01-14309, 01-100378, 01-116432, 01-119941
G
B
M
W
U
BLDG L LIBRARY
DSA# 01-14309, 01-32164, 01-62855, 01-116432
ACCESSIBLE CURB RAMP
DSA# 01-119336
ACCESSIBLE DROP-OFF
DSA# 01-119336
ACCESSIBLE CURB RAMP
DSA# 01-119336
STAFF PARKING LOT A
DSA# 01-119336
STAFF & VISITOR PARKING LOT B
DSA# 01-119336
(E) VAN STALL
ACCESSIBLE PARKING
DSA# 01-119336
1
1
1
WHITMAN STREET
TO PUBLIC WAY
FH

ACCESS SITE PLAN HVAC

1" = 40'

1

NORTH

PARKING STALL DATA

LOCATION	(E) STANDARD PARKING STALLS	(E) ACCESSIBLE STALLS	REQUIRED ACCESSIBLE STALLS
PARKING LOT A	50	2 STANDARD ACC. 1 VAN ACC.	3 PER 51-75 SPACES
PARKING LOT B	13	1 STANDARD ACC. 1 VAN ACC.	1 PER 1-25 SPACES
PARKING LOT C	186	7 STANDARD ACC. 2 VAN ACC.	6 PER 151-200 SPACES
TOTAL	249	10 STANDARD ACC. 4 VAN ACC.	-

SITE PLAN GENERAL NOTES

1. IMPERVOUS SUFACES WTIHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED NOT LESS THAN 2% AWAY FROM THE BUILDING. SUCH SURFACES SHALL BE PERMITTED TO SLOPE LESS THAN 2% WHERE THE SURFACE IS A DOOR LANDING OR REQUIRED RAMP.
2. SEE SHEET G0.4 FOR ACCESSIBLE ROUTE (PATH OF TRAVEL) INFO.
3. SEE SHEET A1.1 FOR CODE INFORMATION

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

THE ARCHITECT VERIFIES THAT THERE ARE NO BARRIERS IN THE ACCESSIBLE ROUTE SERVING THE AREA OF WORK.

THE ACCESSIBLE ROUTE (PATH OF TRAVEL = 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.

ANY ELEMENT, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NONCOMPLIANT ELEMENT, COMPONENT, OR PORTION 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 CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

••••••••> INDICATES ACCESSIBLE ROUTE

THE ACCESSIBLE ROUTE (PATH OF TRAVEL) INDICATED HAS BEEN PROVIDED IN ACCORDANCE WITH IR 11B-10 AND SHALL COMPLY WITH THE FOLLOWING:

- 1:20 MAXIMUM SLOPE WITHOUT A RAMP HANDRAIL
- 1:48 MAXIMUM CROSS SLOPE
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/4". CHANGES BETWEEN 1/4" TO 1/2" VERTICAL CAN BE AT 1:2 MAX SLOPE. CHANGES LESS THAN 1/4" CAN BE VERTICAL
- 48" MIN. CLEAR IN WIDTH (60" MIN PASSING SPACE EVERY 200 LINEAL FEET)
- NON-SLIP SURFACE -HEAVY BROOM FINISH AT EXTERIOR CONCRETE PAVING WHERE SLOPED >6%, MEDIUM BROOM FINISH AT SLOPES <6%
- MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN
- PROTRUDING OBJECTS NOT GREATER THAN 4" SHALL BE MOUNTED BETWEEN 27" AND 80" A.F.F.
- WHERE A DRAIN INLET IS IN THE PATH OF TRAVEL, THE GRATE SHALL BE ORIENTED SO THAT MAX OPENING IS 1/2" & LONG DIM IS PERPENDICULAR TO THE PREDOMINANT DIRECTION OF PEDESTRIAN TRAVEL
- CONTRACTOR TO VERIFY THAT NO BELOW-GRADE PULL BOXES OCCUR WITHIN THE AREA OF TRUNCATED DOMES

PARKING AND PEDESTRIAN SITE SIGNAGE SHALL COMPLY WITH CBC SECTIONS 11B-502.6 11B-502.8 & 11B-703.7.2.1
BUILDING SIGNAGE SHALL COMPLY WITH CBC 11B-703

PEDESTRIAN GATES SHALL COMPLY WITH CBC 1010.2 & 11B-206.5.
ARCHITECT SHALL VERIFY THERE ARE NO BARRIERS IN P.O.T.

SITE PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

① (E) TOW AWAY SIGN PER DSA A#01-119336, SEE 5/A-1.1

② (E) ACCESSIBLE DRINKING FOUNTAIN/BOTTLE FILLER PER DSA A# 01-119336

③ (E) FENCE GATES PER DSA A# 01-119941

SITE PLAN LEGEND

▨	(E) BUILDING TO BE MODERNIZED
☐	(E) BUILDINGS TO REMAIN
••••••••	ACCESSIBLE PATH OF TRAVEL
— - — - —	PROPERTY LINE
—×—×—	(E) FENCE
FH	(E) FIRE HYDRANT
DF	ACCESSIBLE DRINKING FOUNTAIN
G	GIRLS' RESTROOM
B	BOYS' RESTROOM
A	ALL-GENDER STUDENT RESTROOM
W	STAFF RESTROOM - WOMEN
M	STAFF RESTROOM - MEN
U	STAFF RESTROOM - UNISEX/ALL-GENDER
SP	ALL-GENDER SPECIAL EDUCATION STUDENT RESTROOM

IDENTIFICATION STAMP
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PTN: 61192-223	FILE NO: 1-H6

BID SET 2026
4.15.2026

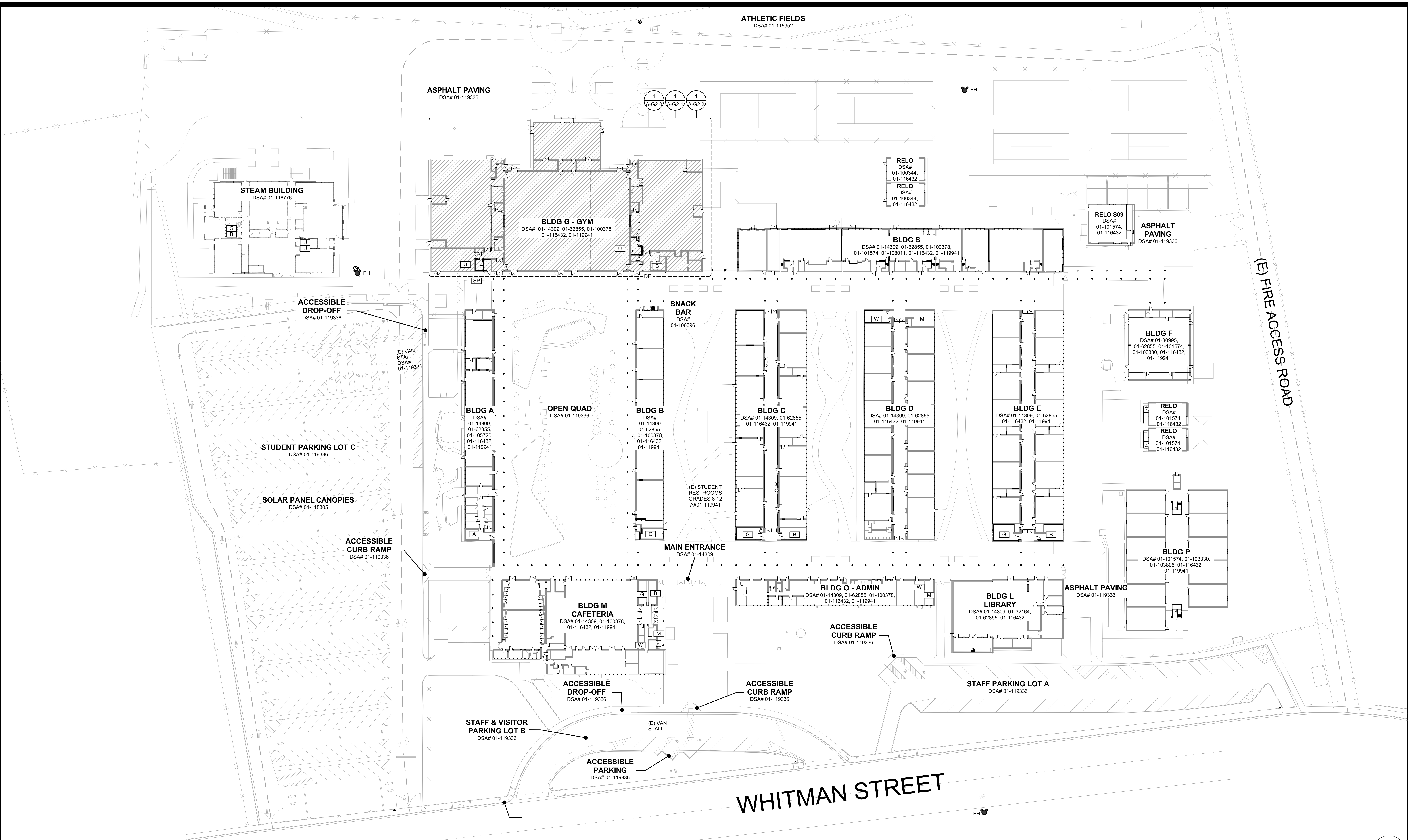
SHEET TITLE

ACCESS SITE PLAN

SHEET NUMBER

G-0.4

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_General Sheets;6/3/2025;4:16 PM


ATHLETIC FIELDS
DSA# 01-115952
ASPHALT PAVING
DSA# 01-119336
1 A-G2.0
1 A-G2.1
1 A-G2.2
FH
STEAM BUILDING
DSA# 01-116776
G
B
U
U
FH
BLDG G - GYM
DSA# 01-14309, 01-62855, 01-100378, 01-116432, 01-119941
U
U
B
SP
DF
RELO
DSA# 01-100344, 01-116432
RELO
DSA# 01-100344, 01-116432
RELO S09
DSA# 01-101574, 01-116432
ASPHALT PAVING
DSA# 01-119336
BLDG S
DSA# 01-14309, 01-62855, 01-100378, 01-101574, 01-108011, 01-116432, 01-119941
(E) FIRE ACCESS ROAD
ACCESSIBLE DROP-OFF
DSA# 01-119336
(E) VAN STALL
DSA# 01-119336
SNACK BAR
DSA# 01-106396
W
M
BLDG F
DSA# 01-30995, 01-62855, 01-101574, 01-103330, 01-116432, 01-119941
BLDG A
DSA# 01-14309, 01-62855, 01-105720, 01-116432, 01-119941
OPEN QUAD
DSA# 01-119336
BLDG B
DSA# 01-14309, 01-62855, 01-100378, 01-116432, 01-119941
BLDG C
DSA# 01-14309, 01-62855, 01-116432, 01-119941
CLR
BLDG D
DSA# 01-14309, 01-62855, 01-116432, 01-119941
BLDG E
DSA# 01-14309, 01-62855, 01-116432, 01-119941
RELO
DSA# 01-101574, 01-116432
RELO
DSA# 01-101574, 01-116432
STUDENT PARKING LOT C
DSA# 01-119336
SOLAR PANEL CANOPIES
DSA# 01-118305
(E) STUDENT RESTROOMS GRADES 8-12
A#01-119941
A
G
G
B
G
B
ACCESSIBLE CURB RAMP
DSA# 01-119336
MAIN ENTRANCE
DSA# 01-14309
BLDG P
DSA# 01-101574, 01-103330, 01-103805, 01-116432, 01-119941
BLDG M CAFETERIA
DSA# 01-14309, 01-100378, 01-116432, 01-119941
G
B
M
W
U
BLDG O - ADMIN
DSA# 01-14309, 01-62855, 01-100378, 01-116432, 01-119941
U
W
M
BLDG L LIBRARY
DSA# 01-14309, 01-32164, 01-62855, 01-116432
ASPHALT PAVING
DSA# 01-119336
ACCESSIBLE CURB RAMP
DSA# 01-119336
ACCESSIBLE DROP-OFF
DSA# 01-119336
ACCESSIBLE CURB RAMP
DSA# 01-119336
STAFF PARKING LOT A
DSA# 01-119336
STAFF & VISITOR PARKING LOT B
DSA# 01-119336
(E) VAN STALL
ACCESSIBLE PARKING
DSA# 01-119336
WHITMAN STREET
FH

CAMPUS SITE PLAN 1

1" = 40'

NORTH

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_General Sheets;6/3/2025 4:17 PM

BUILDING CODE ANALYSIS

EXISTING CONSTRUCTION WAS APPROVED UNDER THE APPLICATION NUMBERS LISTED ON THE SITE PLAN.
THERE ARE NO CHANGES TO THE EXISTING BUILDING USES OR AREAS.

	BLDG A	BLDG B	BLDG C	BLDG D	BLDG E	BLDG F	BLDG G GYM
OCCUPANCY	E	E	E	E	E	E	A2
CONSTRUCTION TYPE	TYPE VB	TYPE VB	TYPE VB	TYPE VB	TYPE VB	TYPE VB	TYPE IIIB
TOTAL AREA	6,886 SF	7,232 SF	17,486 SF	17,486 SF	17,486 SF	4,629 SF	33,570 SF
ALLOWABLE HEIGHT	40 FT	40 FT	40 FT	40 FT	40 FT	40 FT	40 FT
ACTUAL HEIGHT	18 FT	18 FT	18 FT	18 FT	18 FT	18 FT	36 FT
STORIES	1	1	1	1	1	1	1
SPRINKLERS	N	N	N	N	N	N	N

	BLDG L LIBRARY	BLDG M CAFETERIA	BLDG O ADMIN	BLDG P	BLDG S	STEAM BLDG	
OCCUPANCY	A2	A2/E	B	E	E	E	
CONSTRUCTION TYPE	TYPE VB	TYPE VB	TYPE VB	TYPE VB	TYPE VB	TYPE VB	
TOTAL AREA	7,855 SF	15,140 SF	5,544 SF	21,547 SF	17,667 SF	21,155 SF	
ALLOWABLE HEIGHT	40 FT	40 FT	40 FT	40 FT	40 FT	40 FT	
ACTUAL HEIGHT	20 FT	26 FT	16 FT	20 FT	20 FT	39 FT	
STORIES	1	1	1	2	1	2	
SPRINKLERS	N	N	N	Y	N	Y	

SITE PLAN GENERAL NOTES

1. IMPERVOUS SUFACES WTIHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED NOT LESS THAN 2% AWAY FROM THE BUILDING. SUCH SURFACES SHALL BE PERMITTED TO SLOPE LESS THAN 2% WHERE THE SURFACE IS A DOOR LANDING OR REQUIRED RAMP.
2. SEE SHEET G0.4 FOR ACCESSIBLE ROUTE (PATH OF TRAVEL) INFO.
3. SEE SHEET A1.1 FOR CODE INFORMATION

SITE PLAN LEGEND

▨	(E) BUILDING TO BE MODERNIZED
☐	(E) BUILDINGS TO REMAIN
— — —	FIRE ACCESS LANE DSA APP #01-115952 AND APP# 01-116776
— - —	PROPERTY LINE
—×—×—	(E) FENCE
FH	(E) FIRE HYDRANT

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SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK
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LICENSED ARCHITECT
JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
STATE OF CALIFORNIA
SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

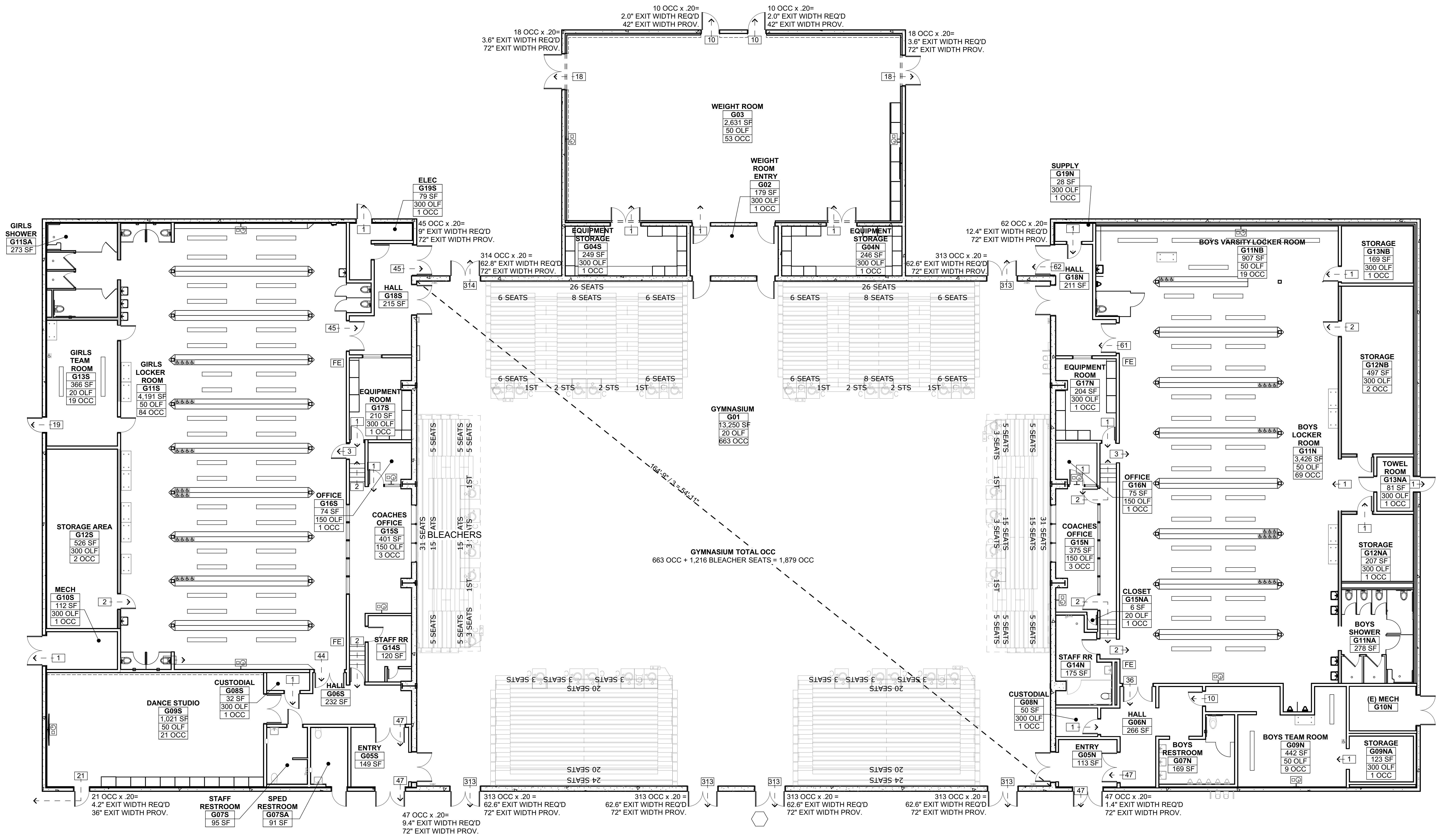
BID SET 2026
4.15.2026

SHEET TITLE

CAMPUS SITE PLAN

SHEET NUMBER

G-0.5



FIRST FLOOR EXITING PLAN 1

3/32" = 1'-0"

NORTH

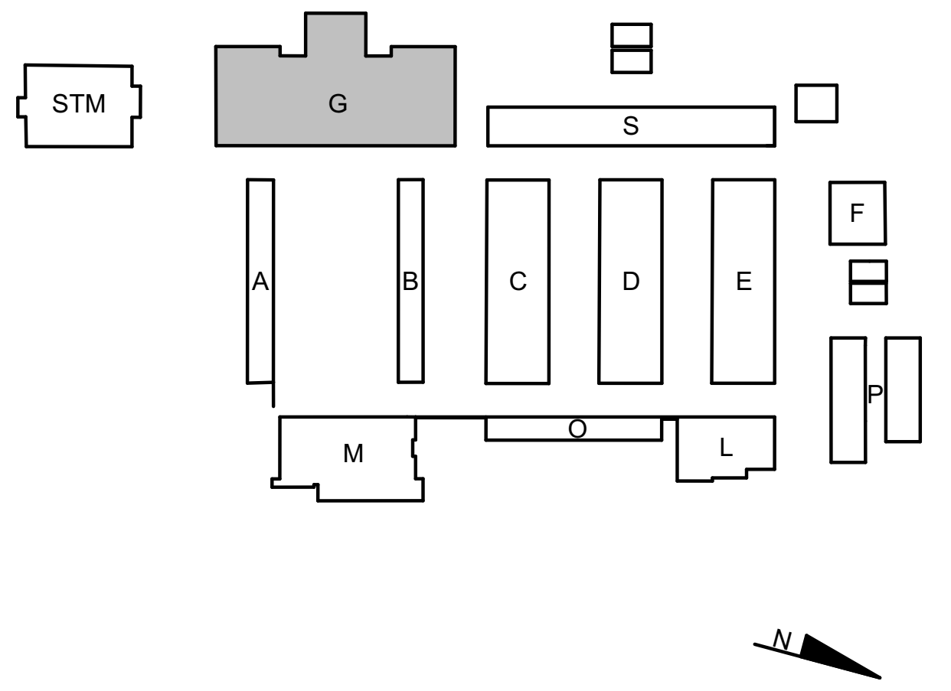
CODE PLAN GENERAL NOTES

1. FOR COMPLETE WALL LEGEND AND RATED WALL REFERENCES, SEE FLOOR PLANS.
2. FOR ACCESSIBLE PATH OF TRAVEL, SEE G-0.4
3. FOR CONTINUATION OF ACCESSIBLE EGRESS PATH TO PUBLIC WAY, SEE G-0.3.

CODE PLAN LEGEND

←— ←— 100	ACCESSIBLE EGRESS PATH, 100 OCCUPANTS
X'-X" / 3 = X'-X"	MAXIMUM OVERALL DIAGONAL FOR AREA SERVED PER CBC 1007.1.1
▬	WOOD FRAMED WALL - NON RATED
═	(E) WOOD FRAMING - NON RATED TO REMAIN
▨	(E) CMU - NON RATED TO REMAIN
- - -—	IMAGINARY LINE BETWEEN BUILDINGS PER CBC 705.3
FE	SEMI-RECESSED FIRE EXTINGUISHER, SEE 2/A-9.1

KEY PLAN



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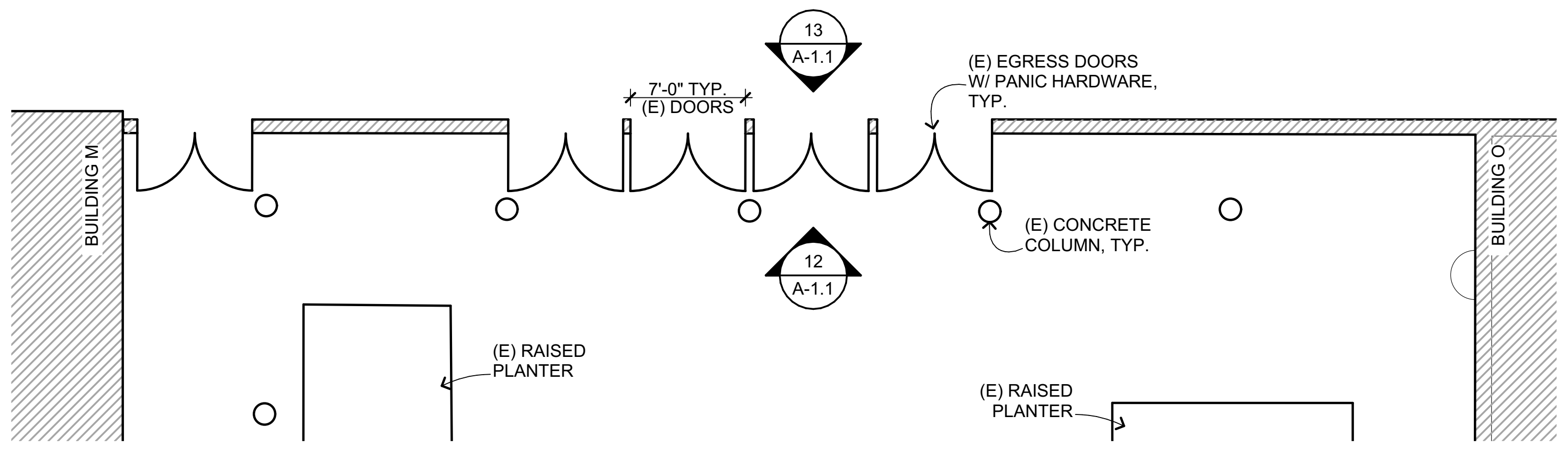
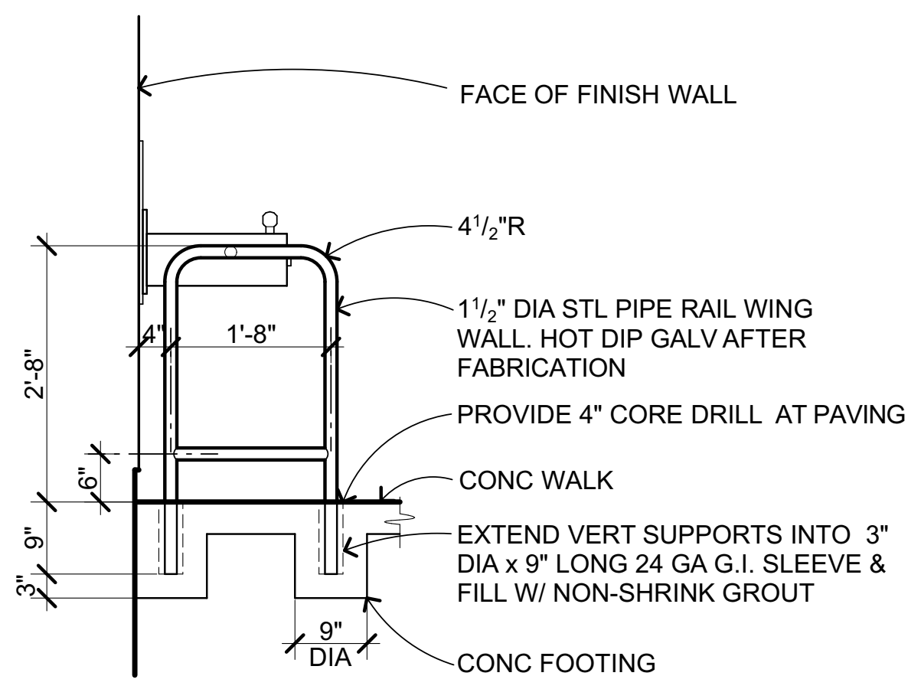


ENLARGED MAIN ENTRANCE (M-O) PLAN

1/8" = 1'-0"

16


FACE OF FINISH WALL
4½"R
1½" DIA STL PIPE RAIL WING WALL. HOT DIP GALV AFTER FABRICATION
PROVIDE 4" CORE DRILL AT PAVING
CONC WALK
EXTEND VERT SUPPORTS INTO 3" DIA x 9" LONG 24 GA G.I. SLEEVE & FILL W/ NON-SHRINK GROUT
CONC FOOTING
2'-8"
4"
1'-8"
6"
9"
3"
9" DIA

(E) PROTECTIVE PIPE RAIL - EXT

1/2" = 1'-0"

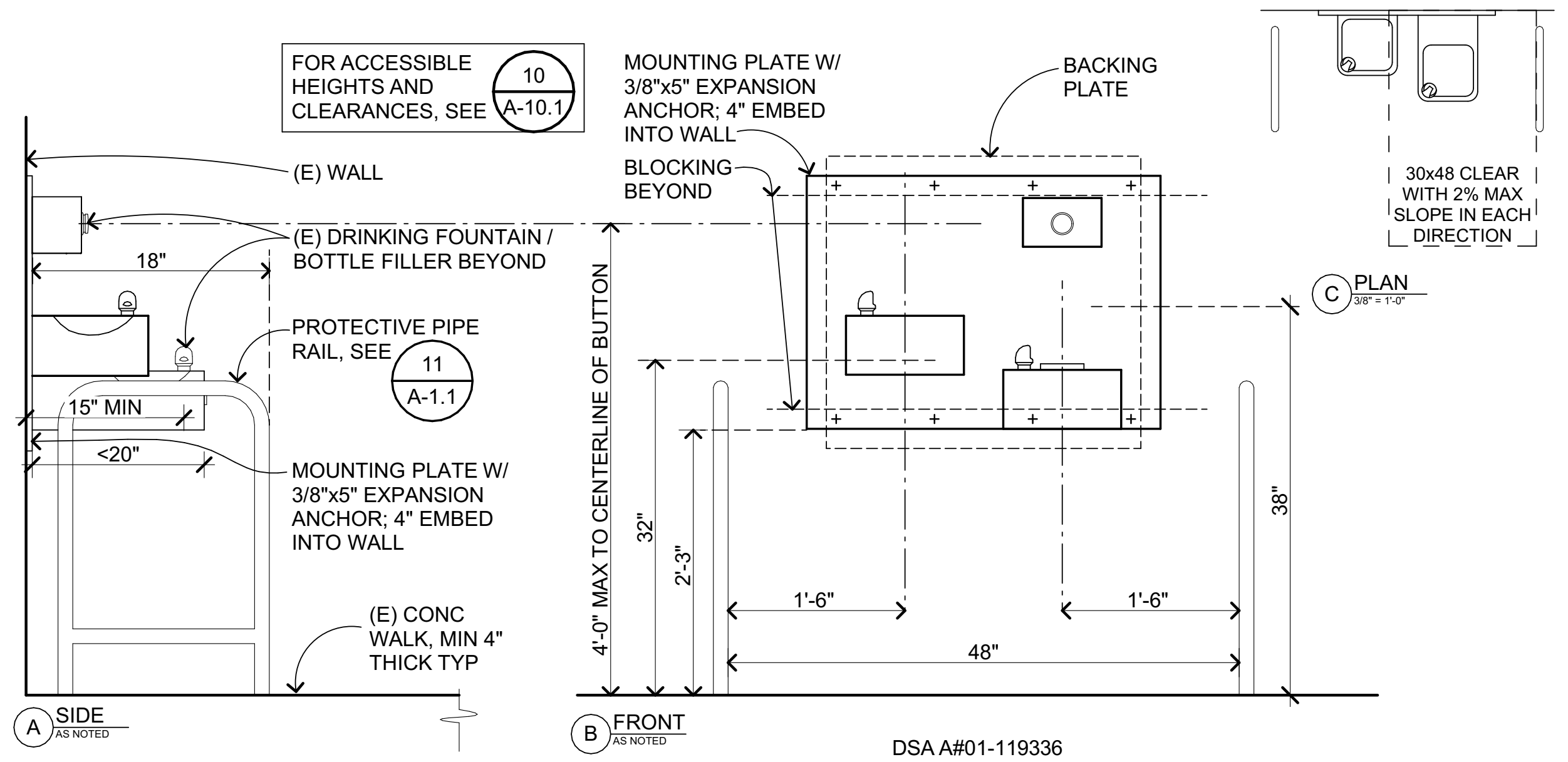
D208103

11

MAIN ENTRANCE DOORS - STREET SIDE

N. T. S.

12


FOR ACCESSIBLE HEIGHTS AND CLEARANCES, SEE 10 A-10.1
(E) WALL
(E) DRINKING FOUNTAIN / BOTTLE FILLER BEYOND
18"
PROTECTIVE PIPE RAIL, SEE 11 A-1.1
15" MIN
<20"
MOUNTING PLATE W/ 3/8"x5" EXPANSION ANCHOR; 4" EMBED INTO WALL
(E) CONC WALK, MIN 4" THICK TYP
A SIDE AS NOTED
MOUNTING PLATE W/ 3/8"x5" EXPANSION ANCHOR; 4" EMBED INTO WALL
BLOCKING BEYOND
BACKING PLATE
4'-0" MAX TO CENTERLINE OF BUTTON
32"
2'-3"
1'-6"
1'-6"
48"
38"
B FRONT AS NOTED
30x48 CLEAR WITH 2% MAX SLOPE IN EACH DIRECTION
C PLAN 3/8" = 1'-0"

DSA A#01-119336

(E) EXT DRINKING FOUNTAIN MOUNTING

3/4" = 1'-0"

1910 D208107

2

MAIN ENTRANCE DOORS - CAMPUS SIDE

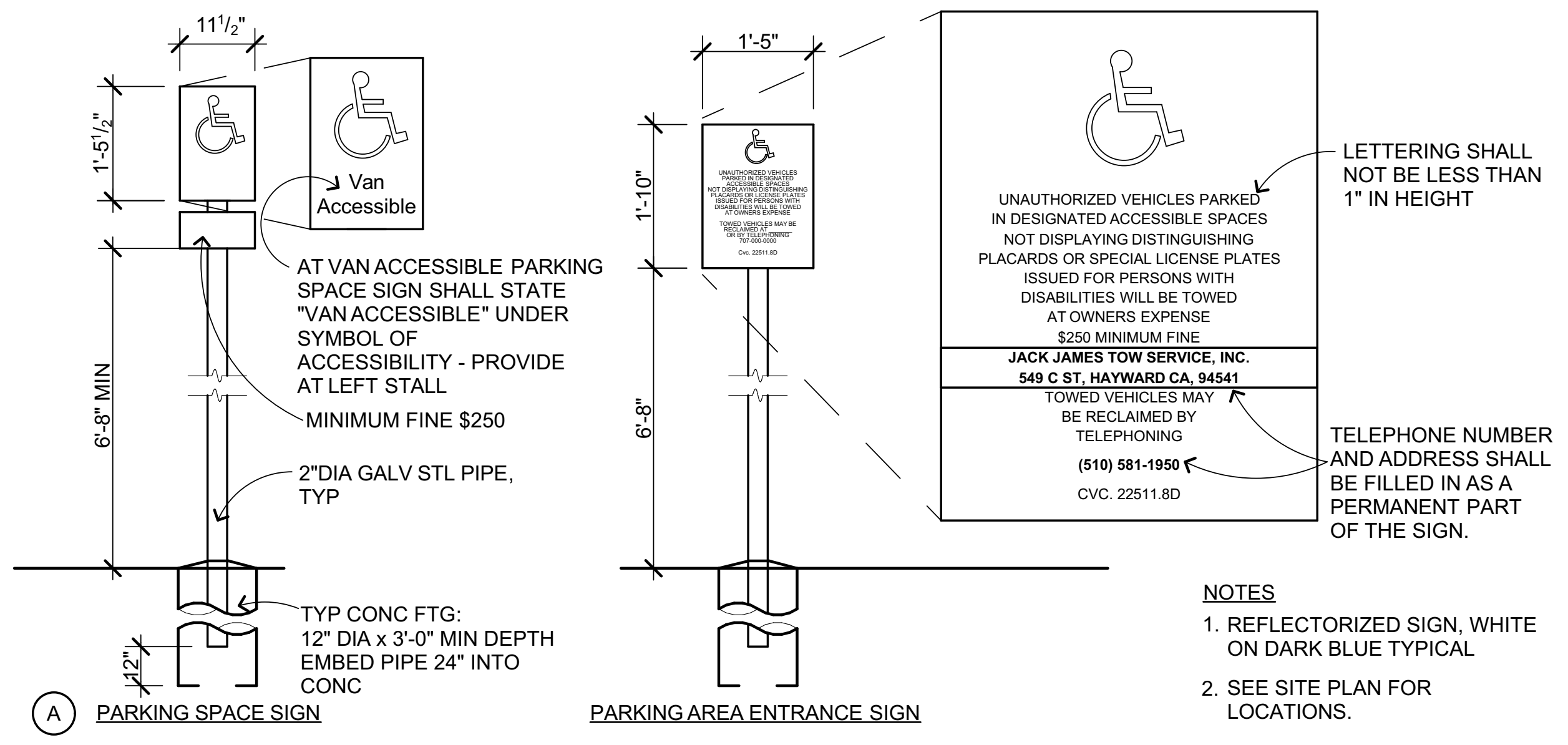
N. T. S.

13

ACC DF AT BLDG G

N. T. S.

25


11½"
1'-5½"
Van Accessible
6'-8" MIN
12"
1'-5"
1'-10"
6'-8"
UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AT OWNERS EXPENSE
$250 MINIMUM FINE
JACK JAMES TOW SERVICE, INC.
549 C ST, HAYWARD CA, 94541
TOWED VEHICLES MAY BE RECLAIMED BY TELEPHONING
(510) 581-1950
CVC. 22511.8D

AT VAN ACCESSIBLE PARKING SPACE SIGN SHALL STATE "VAN ACCESSIBLE" UNDER SYMBOL OF ACCESSIBILITY - PROVIDE AT LEFT STALL

MINIMUM FINE $250

2"DIA GALV STL PIPE, TYP

TYP CONC FTG: 12" DIA x 3'-0" MIN DEPTH EMBED PIPE 24" INTO CONC

LETTERING SHALL NOT BE LESS THAN 1" IN HEIGHT

TELEPHONE NUMBER AND ADDRESS SHALL BE FILLED IN AS A PERMANENT PART OF THE SIGN.

Ⓐ PARKING SPACE SIGN

PARKING AREA ENTRANCE SIGN

NOTES

1. REFLECTORIZED SIGN, WHITE ON DARK BLUE TYPICAL
2. SEE SITE PLAN FOR LOCATIONS.

DSA A#01-119336

(E) ACCESSIBLE PARKING SIGNAGE

1/2" = 1'-0"

G202201

5

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SITE DETAILS

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A-1.1

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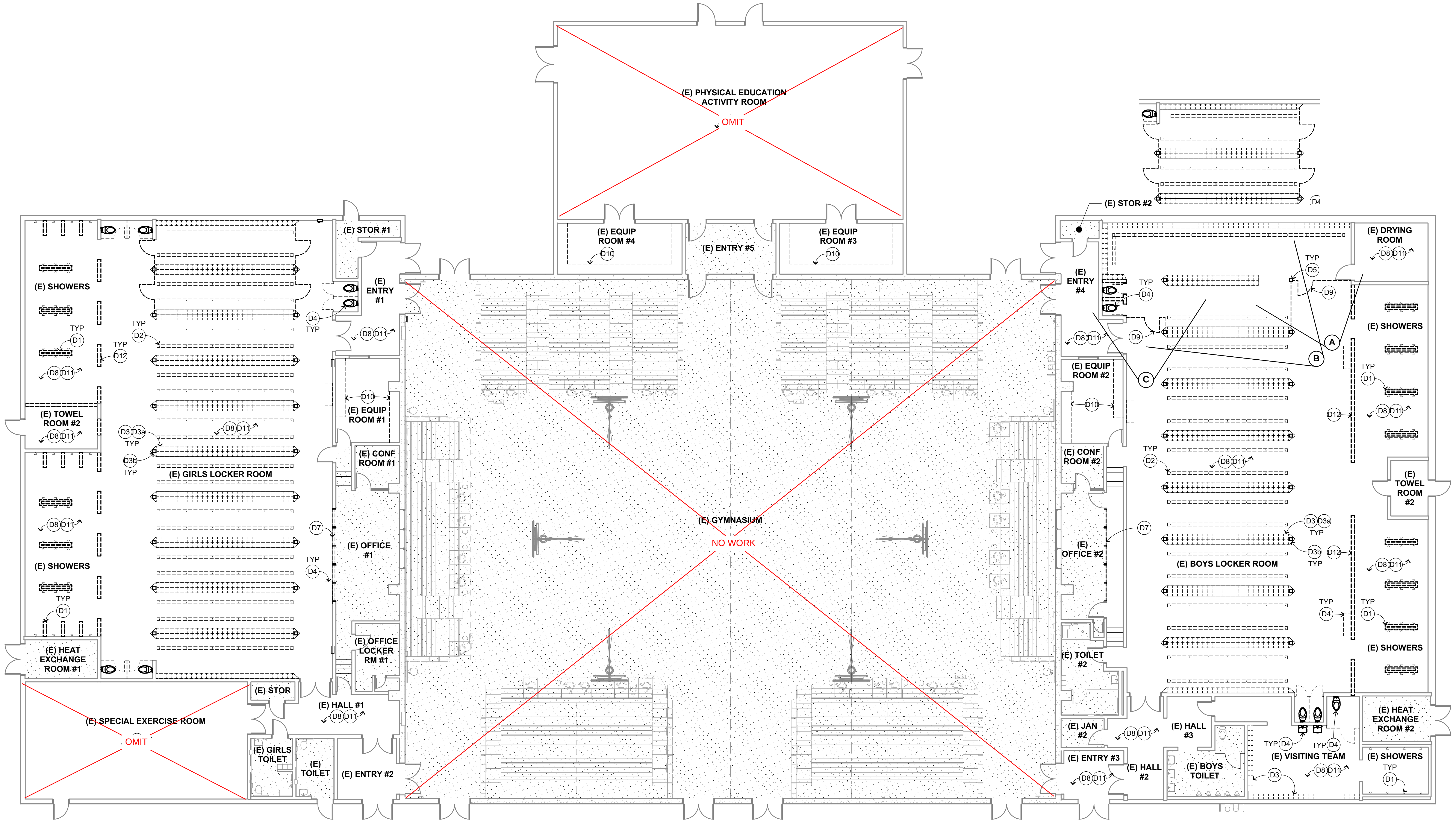
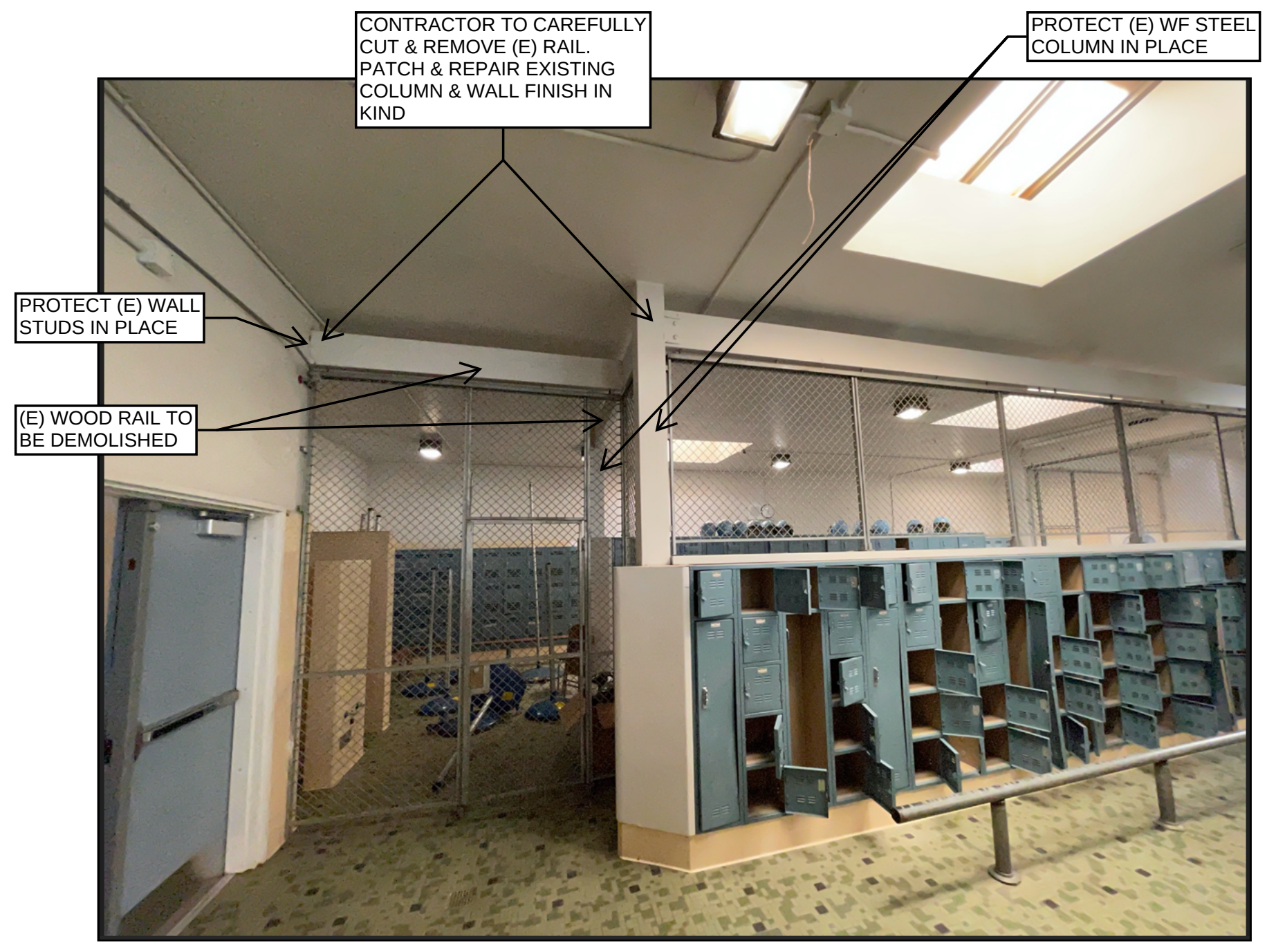
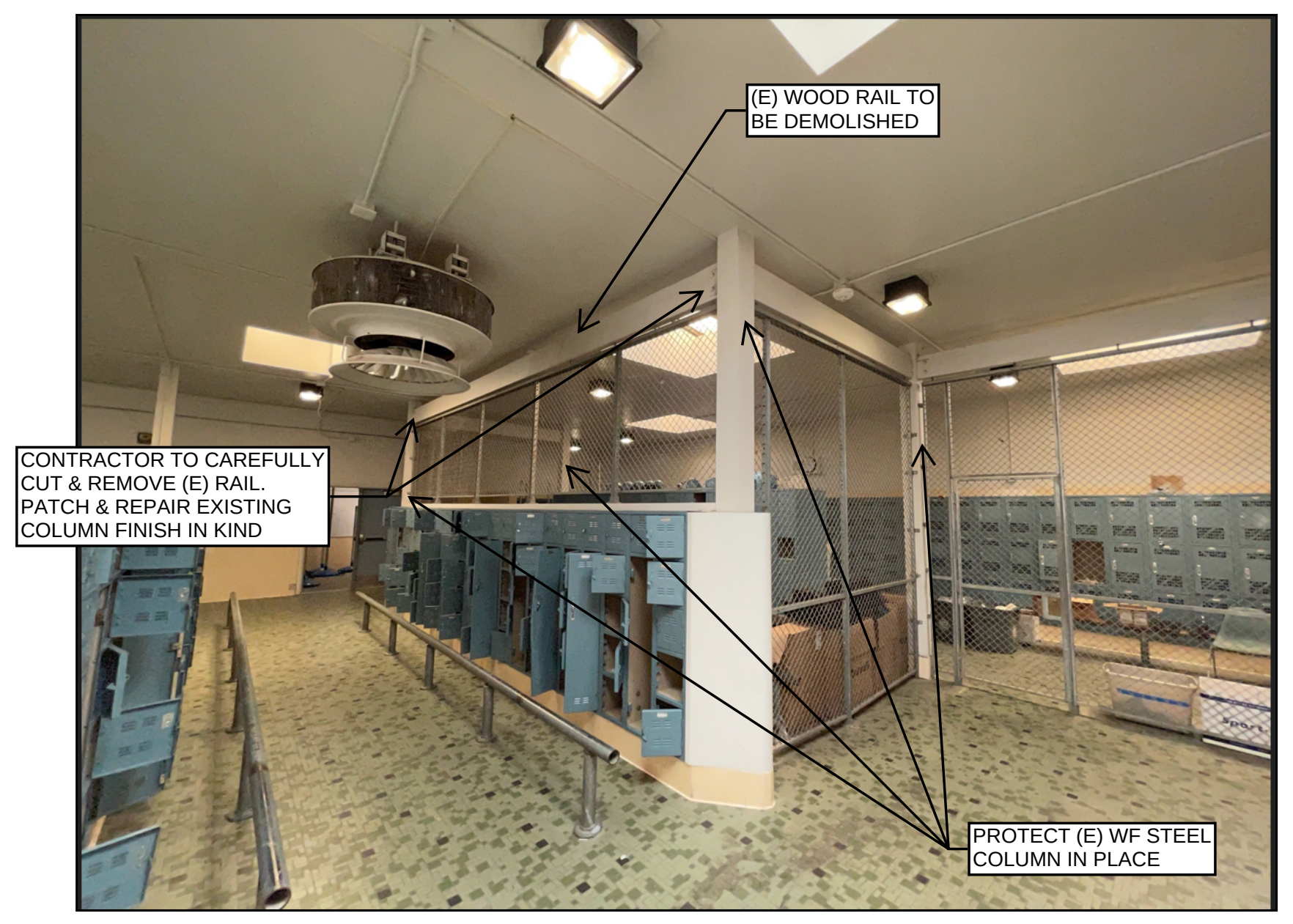


DEMO FLOOR PLAN 1

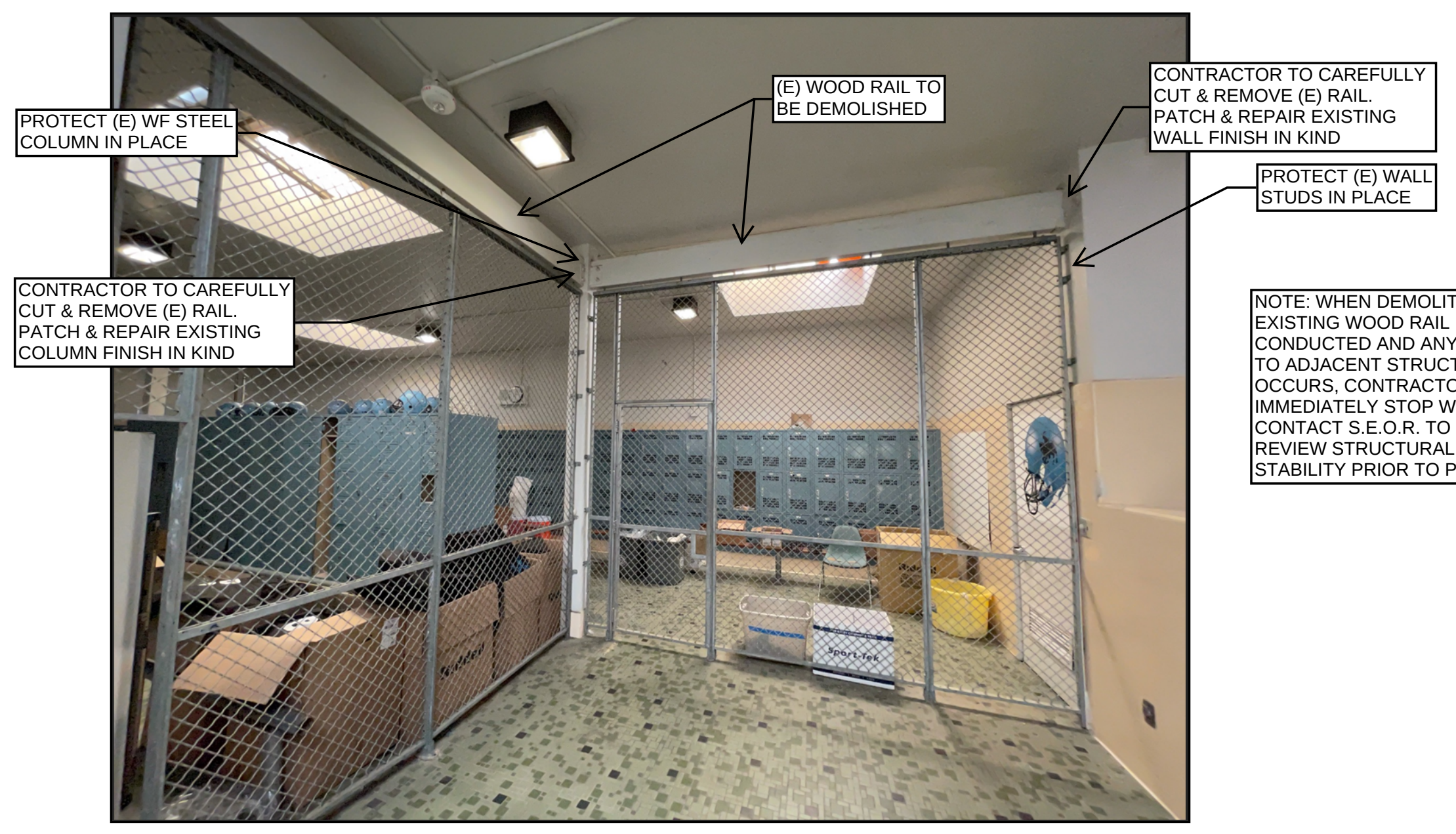
3/32" = 1'-0"


CONTRACTOR TO CAREFULLY CUT & REMOVE (E) RAIL. PATCH & REPAIR EXISTING COLUMN & WALL FINISH IN KIND
PROTECT (E) WF STEEL COLUMN IN PLACE
PROTECT (E) WALL STUDS IN PLACE
(E) WOOD RAIL TO BE DEMOLISHED

C (E) CONDITION - PHOTO 3


(E) WOOD RAIL TO BE DEMOLISHED
CONTRACTOR TO CAREFULLY CUT & REMOVE (E) RAIL. PATCH & REPAIR EXISTING COLUMN FINISH IN KIND
PROTECT (E) WF STEEL COLUMN IN PLACE

B (E) CONDITION - PHOTO 2


PROTECT (E) WF STEEL COLUMN IN PLACE
(E) WOOD RAIL TO BE DEMOLISHED
CONTRACTOR TO CAREFULLY CUT & REMOVE (E) RAIL. PATCH & REPAIR EXISTING WALL FINISH IN KIND
PROTECT (E) WALL STUDS IN PLACE
CONTRACTOR TO CAREFULLY CUT & REMOVE (E) RAIL. PATCH & REPAIR EXISTING COLUMN FINISH IN KIND

A (E) CONDITION - PHOTO 1

NOTE: WHEN DEMOLITION OF EXISTING WOOD RAIL IS BEING CONDUCTED AND ANY MOVEMENT TO ADJACENT STRUCTURE OCCURS, CONTRACTOR TO IMMEDIATELY STOP WORK AND CONTACT S.E.O.R. TO FURTHER REVIEW STRUCTURAL SAFETY & STABILITY PRIOR TO PROCEEDING.

NORTH

DEMOLITION PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

D1	DEMOLISH (E) STUDENT SHOWERS, CUT AND CAP (E) PLUMBING LINES. PATCH & REPAIR AS REQUIRED. PREP FLOOR/WALL TO RECEIVE FINISH INFILL.
D2	DEMOLISH (E) PIPE BENCHES. PREP AREA TO INSTALL NEW BENCHES, REFER TO SHEET A-G2.1
D3	DEMOLISH (E) LOCKERS. (E) CONCRETE BASE TO REMAIN (TYP.), PROTECT IN PLACE. PREP (E) CONCRETE SURFACE AREA TO INSTALL NEW LOCKERS, REFER TO SHEET A-G2.1
D3a	REMOVE (E) LOCKER ANCHOR STRAPS. CUT OFF DOWN TO TOP OF CURB, SAND SHARP ENDS OFF TO ALLOW FOR PLUMB/FLAT INSTALLATION OF NEW LOCKERS.
D3b	DEMOLISH (E) LOCKER END CAPS. (E) COLUMNS TO REMAIN, TYP. PROTECT IN PLACE. PREP FOR NEW WORK.
D4	DEMOLISH (E) PLUMBING FIXTURE, REPLACE WITH NEW, S.P.D. DEMOLISH (E) TOILET PARTITIONS.
D5	(E) STRUCTURAL COLUMN, PROTECT IN PLACE, S.S.D.
D6	(E) MECHANICAL EQUIPMENT TO BE REMOVED, S.M.D.
D7	REMOVE (E) GLAZING, PROTECT WINDOW MULLIONS IN PLACE. REPLACE WITH NEW, SEE A-G2.1
D8	REMOVE (E) FLOOR FINISH INCLUDING BASE. PREPARE AREA FOR NEW WORK.
D9	REMOVE (E) CHAINLINK FENCE WITH GATES
D10	DEMOLISH EXISTING CASEWORK. PREPARE AREA FOR NEW WORK.
D11	DEMOLISH EXISTING TILE AND GROUT. PREPARE AREA FOR NEW WALL FINISH.
D12	DEMOLISH EXISTING PARTIAL HEIGHT WALLS. (E) 6" CONC CURB TO REMAIN, S.S.D. FOR INSTALLATION OF NEW NON-BEARING WALL ABOVE CURB AS NOTED ON SHEET A-G2.1

DEMOLITION PLAN GENERAL NOTES

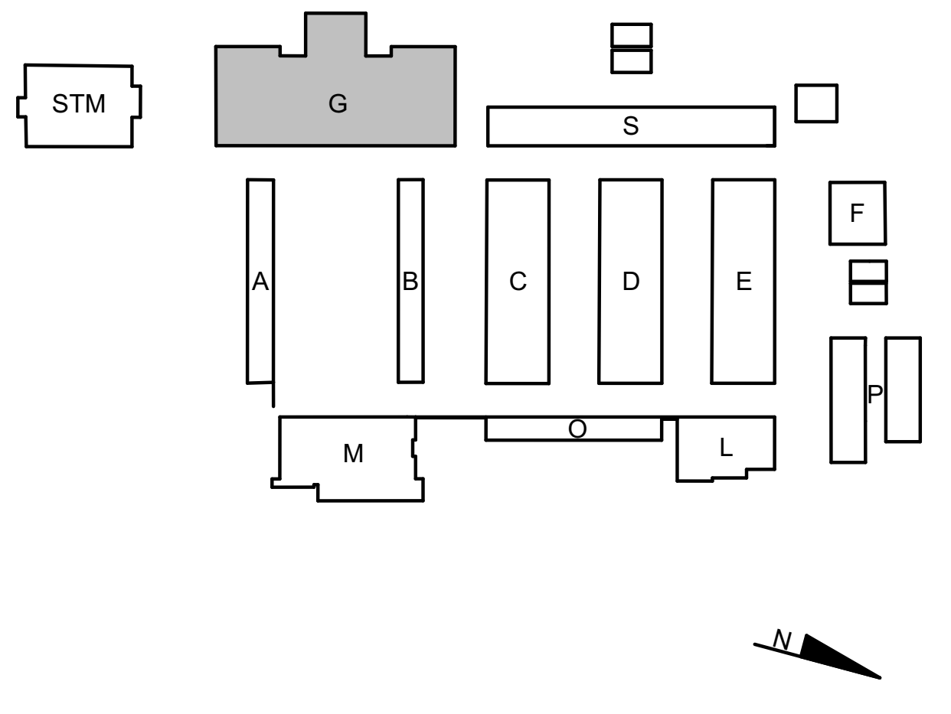
1. NEATLY CUT AND REMOVE SURFACES AND FINISHES AS REQUIRED OR TO A NATURAL POINT OF DIVISION TO ENABLE INSTALLATION OF BLOCKING, BACKING, FRAMING, SHEATHING, UTILITIES OR OTHER CONCEALED WORK, WHETHER SPECIFICALLY SHOWN OR INFERRED FOR SUPPORT OR RENOVATION. REFER TO ELECTRICAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR CONCEALED WORK NOT SHOWN ON ARCHITECTURAL DRAWINGS.
2. REPAIR AND REPLACE ALL EXISTING SURFACES AND FINISHES TO EXISTING UNDISTURBED WORK.
3. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDCATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATIONS OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
4. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA
5. WALLS - REMOVE ALL FIXTURES, FITTINGS AND FINISHES TO BARE STUDS. REMOVE (E) WALL INSULATION.
6. FLOORS - REMOVE ALL (E) FLOOR FINISHES BASES, AND THRESHOLDS INCLUDING:
   CERAMIC TILE AT SHOWER ROOMS

DEMOLITION LEGEND

EXISTING & DEMOLITION WORK:

- - - - -	(E) ITEM TO BE DEMOLISHED
⌐- - - -¬	(E) WOOD FRAMED WALL AND ASSOCIATED WORK TO BE DEMOLISHED, PATCH & REPAIR FLOOR AS REQ
——	(E) ITEM TO REMAIN
═══	(E) WALL TO REMAIN, PROTECT AND PRESERVE
	(E) DOOR/FRAME TO BE DEMOLISHED, SEE FLOOR PLAN & DOOR SCHEDULE
	(E) DOOR/FRAME TO REMAIN, SEE FLOOR PLAN & DOOR SCHEDULE
▨	(E) BUILDING AREA, NO WORK

KEY PLAN



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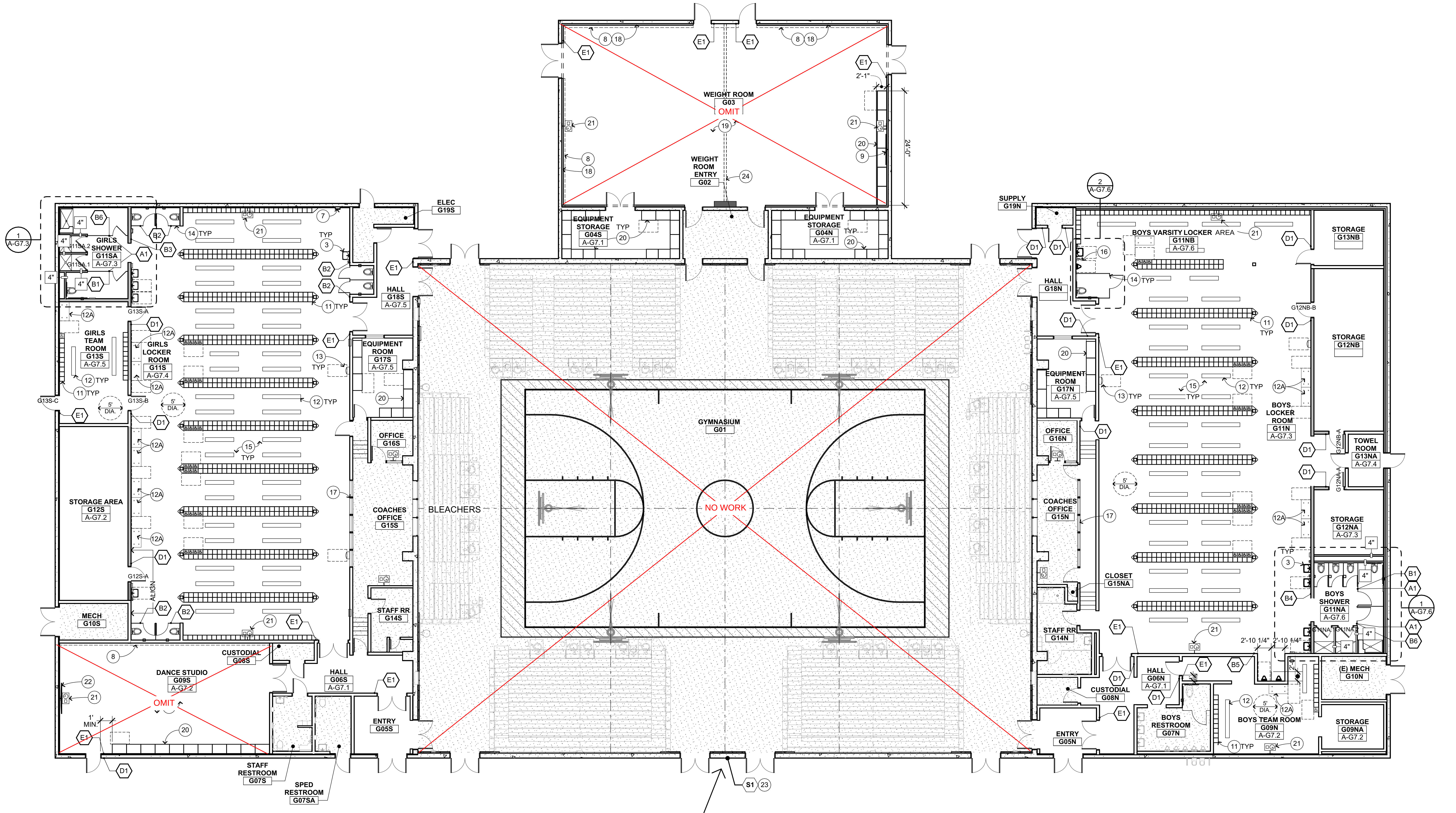


FLOOR PLAN ①

3/32" = 1'-0"

FLOOR PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. ~~FIRE SPRINKLER RISER, S.P.D.~~
2. MECHANICAL ITEM, S.M.D.
3. PLUMBING ITEM / FIXTURE, S.P.D.
4. ELECTRICAL ITEM, S.E.D.
5. STRUCTURAL ITEM, S.S.D.
6. FIRE EXTINGUISHER, SEMI-RECESSED
7. (E) HAND DRYER TO REMAIN, PROTECT IN PLACE
8. IMPACT-RESISTANT WALL-MOUNTED MIRRORS, SEE 8/A-10.1
9. ~~CABINET MOUNTED DISPLAY MONITOR, SEE 18/A-10.2~~
10. (NOT USED)
11. LOCKERS, SEE 3/A-10.1 . SEE INT. ELEVS. SEE 28/A-10.1 FOR END CONDITION.
12. STANDARD BENCH, 12"D x 72", 96"L. SEE 28/A-10.2 FOR ANCHORAGE

12A ACCESSIBLE BENCH, 24"D x 48"L. SEE 25/A-10.2

13. BOTTLE FILLER, SEE 13/A-10.1
14. TOILET PARTITION, SEE 9/A-10.1 34/A-10.1
15. FLUID-APPLIED FLOORING, SEE 3/A-9.1
16. URINAL SCREEN, SEE 14/A-10.1
17. PROVIDE NEW GLAZING AT (E) WINDOWS, SEE 7/A-9.1 . SEE GLAZING NOTES AT SHEET A-8.1.
18. FURRED WALL IN CONCRETE WALL, SEE 17/A-9.1
19. ~~WOOD FLOORING, SEE 5/A-9.1~~
20. CASEWORK, SEE INT. ELEVS. SEE 3/A-10.2
21. (E) CLOCK/SPEAKER; PROVIDE NEW AS INDICATED, S.E.D.
22. ~~WALL MOUNTED FLAT PANEL MONITOR, SEE 23/A-10.1~~
23. BUILDING IDENTIFICATION SIGNAGE, SEE 35/A-10.2
24. ~~(E) ACCORDION PARTITION TO REMAIN, PROTECT IN PLACE~~

WALL TYPE AND DIMENSION LEGEND

ALL DIMENSIONS ARE TO FACE OF STUD OR GRIDLINE U.O.N.
ALL WOOD FRAMING IS 2X6 STUDS U.O.N., S.S.D.

6'-0"	DIMENSION TO FACE OF STUD OR GRIDLINE
6'-0"	DIMENSION TO FACE OF FINISH
6'-0"	DIMENSION TO CENTER LINE OR COLUMN LINE
═	(E) WOOD FRAMING - NON RATED TO REMAIN
▒	(E) CMU - NON RATED TO REMAIN
▬	WOOD FRAMING - NON RATED, SEE 1/A-9.1
4"	WOOD WALL FRAMING SIZE 2X4
▒	(E) BUILDING AREA, NO WORK

SIGNAGE GENERAL NOTES

1. ALL SIGNAGE AT MAIN ENTRANCES, TOILETS, PERMANENT ROOMS, ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH TITLE 24 CBC AND CBC 11B-703.
2. RAISED CHARACTERS SHALL CONFORM TO CBC 11B-703.2.
   BRAILLE SHALL CONFORM TO CBC 11B-703.3
   PICTORIAL SIGNAGE SHALL CONFORM TO CBC 11B-703.6
3. MOUNTING LOCATION AND HEIGHT: (WHERE PERMANENT IDENTIFICATION IS PROVIDED OR WHERE SIGNAGE IS REQUIRED FOR ROOMS AND SPACES): CBC 11B-703.4
4. INTERNATIONAL SYMBOL OF ACCESSIBILITY DESIGN AND COLOR SHALL CONFORM TO CBC 11B-703.7.1 & 11B-703.7.2.1.
5. DOORS TO TOILET ROOMS: PROVIDE SIGNAGE CONFORMING TO CBC 11B-703.7.2.6
6. CONTRAST AND FINISH OF SYMBOLS SHALL CONFORM TO CBC 11B-703.7.1.
7. SIGNS AND IDENTIFICATION DEVICES SHALL BE FIELD-INSPECTED AFTER INSTALLATION TO VERIFY COMPLIANCE PER CBC 11B-703.1.1.2
8. FOR SIGNAGE ELEVATIONS AND MOUNTING LOCATIONS, SEE 27/A-10.1
9. FOR SIGNAGE ATTACHMENT, SEE 21/A-10.1

SIGNAGE LEGEND

SIGNAGE TAG E1 INDICATES SIGNAGE TYPE E1, PER LIST BELOW FOR APPLICABLE DETAILS, SEE 21/A-10.1

A1	ACCESSIBLE ENTRANCE SIGN
B1	ACCESSIBLE TOILET
B2	NON-ACCESSIBLE TOILET
B3	GIRLS ROOM SIGNAGE
B4	BOYS ROOM SIGNAGE
B5	ACCESSIBLE URINAL
B6	ACCESSIBLE SHOWER
D1	ROOM ID SIGNAGE
E1	TACTILE EXIT SIGN
S1	BUILDING IDENTIFICATION PER CBC 502.1

PLUMBING FIXTURE COUNT - LOCKER ROOMS

GIRLS LOCKER ROOM G11S AND GIRLS SHOWER ROOM G11SA	STANDARD PROVIDED	ACCESSIBLE PROVIDED	TOTAL NUMBER
TOILET STALLS	6	1	7

BOYS LOCKER ROOM G11N, BOYS VARSITY LOCKER ROOM G11NB AND BOYS SHOWER G11NA	STANDARD PROVIDED	ACCESSIBLE PROVIDED	TOTAL NUMBER
URINALS	1	2	3
TOILET STALLS	3	2	5

LOCKER COUNT CALCULATIONS

GIRLS LOCKER ROOM G11S:

TOTAL MAIN LOCKER ROOM AREA = 1026
ACCESSIBLE LOCKERS REQUIRED: 5% x 1026 = 51.3
ACCESSIBLE LOCKERS PROVIDED: 52 LOCKERS

GIRLS TEAM ROOM G13S:

TOTAL MAIN LOCKER ROOM AREA = 20
ACCESSIBLE LOCKERS REQUIRED: 5% x 20 = 1
ACCESSIBLE LOCKERS PROVIDED: 1 LOCKER

NOTE:

1. 12Wx30Hx12D DUAL TIERED LOCKERS IN MAIN LOCKER ROOMS
2. PROVIDE FULL HEIGHT SINGLE TIER LOCKERS IN TEAM ROOMS
3. PAD-LOCK STYLE LOCKER, PRE-MFR PAINT COLOR AS SELECTED BY THE ARCHITECT. CONTRACTOR TO PROVIDE FULL RANGE OF STANDARD MFR COLORS

BOYS LOCKER ROOM G11N:

MAIN LOCKER ROOM AREA = 726
ACCESSIBLE LOCKERS REQUIRED: 5% x 726 = 36.3
ACCESSIBLE LOCKERS PROVIDED: 38 LOCKERS

VARSITY AREA LOCKER ROOM AREA = 90
ACCESSIBLE LOCKERS REQUIRED: 5% x 90 = 4.5
ACCESSIBLE LOCKERS PROVIDED: 6 LOCKERS

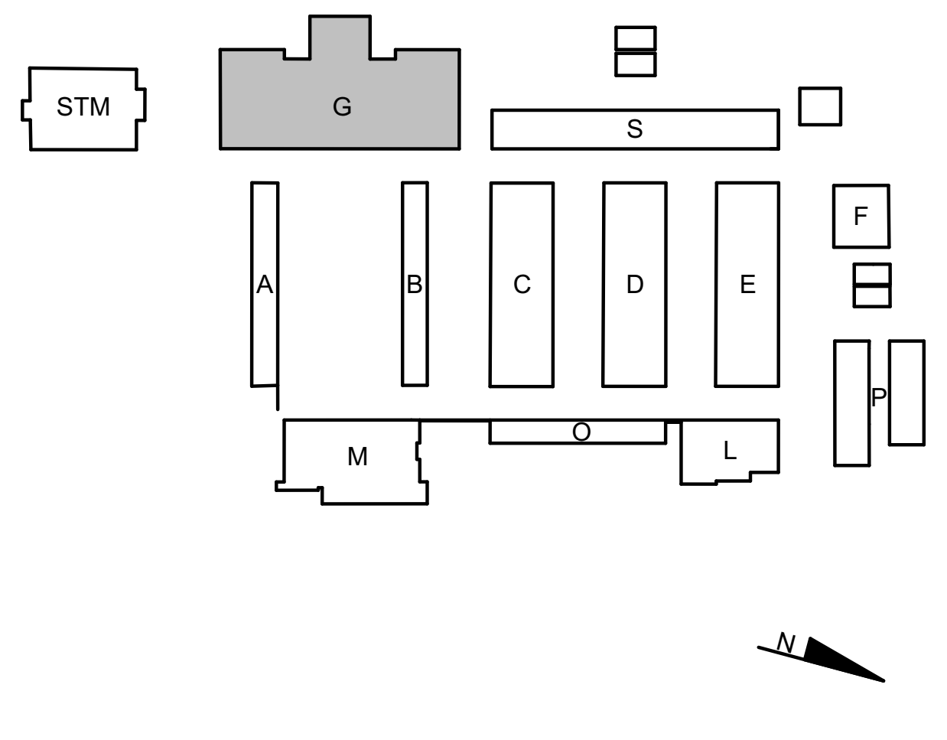
GRAND TOTAL LOCKERS IN ROOM G11N = 816

BOYS TEAM ROOM G09N:

TOTAL MAIN LOCKER ROOM AREA = 20
ACCESSIBLE LOCKERS REQUIRED: 5% x 20 = 1
ACCESSIBLE LOCKERS PROVIDED: 1 LOCKER

♿	INDICATES ACCESSIBLE LOCKER LOCATION (SINGLE TIER)
▨	INDICATES ACCESSIBLE LOCKER LOCATION (DUAL TIER)

KEY PLAN



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A-G2.1

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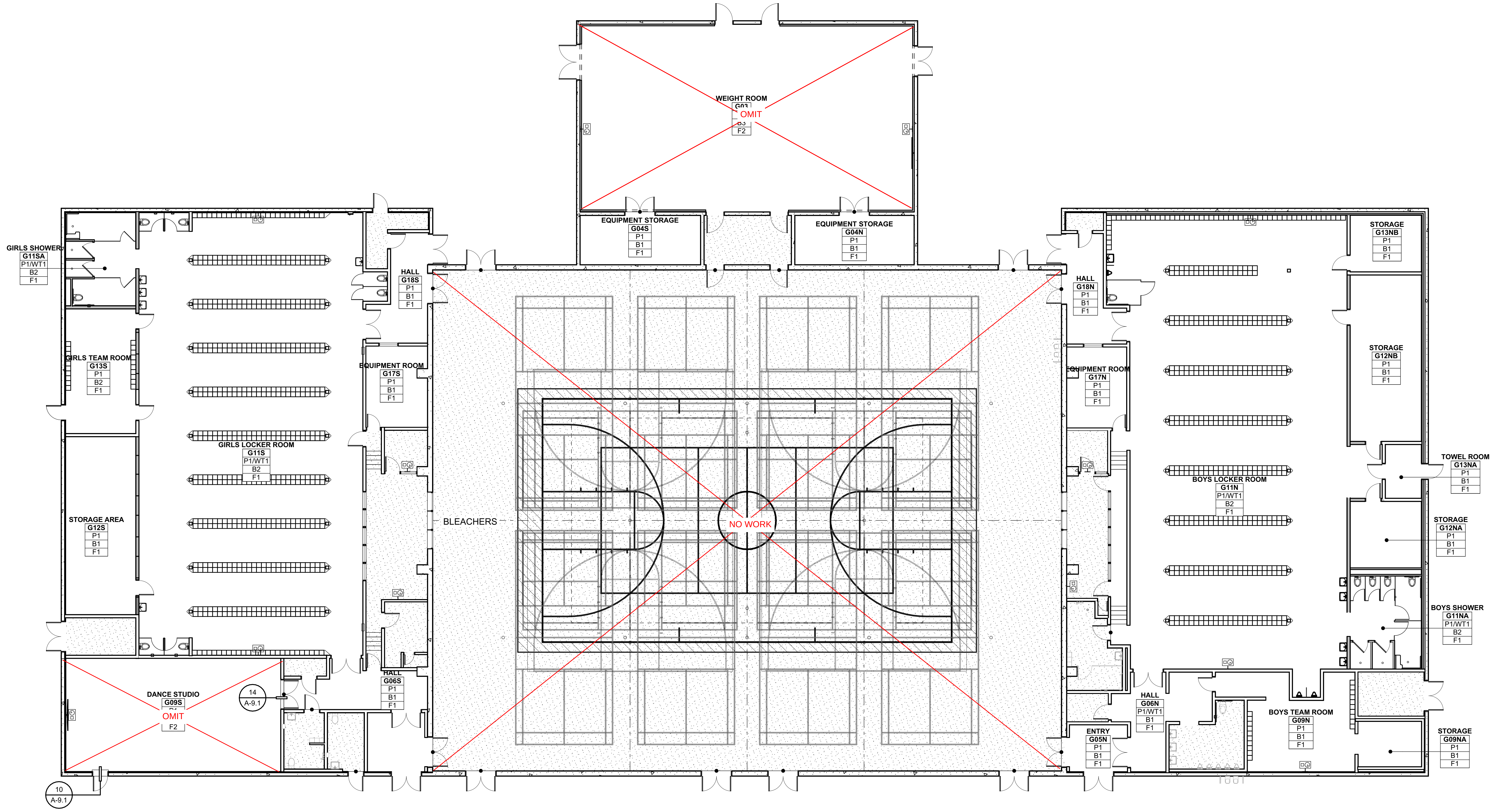
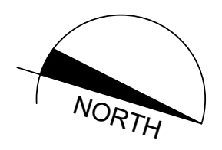


FLOOR FINISH PLAN 1

3/32" = 1'-0"



FINISH PLAN GENERAL NOTES

1. SEE INTERIOR ELEVATION SHEETS, FINISH SCHEDULE, ARCHITECTURAL DETAILS, AND PROJECT SPECIFICATIONS FOR THE EXTENT OF FINISH DOCUMENTATION AND PRODUCT AND MATERIAL INFORMATION.
2. SEE REFLECTED CEILING PLAN SHEETS FOR SPECIFIC LOCATIONS & CONFIGURATIONS OF GYP BD SOFFITS, SUSPENDED CEILING SYSTEMS AND OTHER CEILING ELEMENTS. ALL GYP SOFFITS TO BE PAINTED Px, U.O.N.
3. FLOOR FINISH INSTALLATION SHALL BE SMOOTH. CHANGES IN LEVEL OF ¼ INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL OF 1/4 INCH VERTICAL PLUS 1/4 INCH BEVELED SHALL BE IN ACCORDANCE WITH CBC 11B 303. EXPOSED EDGES OF THE FLOORING SHALL BE FASTENED TO THE FLOOR SURFACE AND HAVE TRIM IN ACCORDANCE WITH ACCESSORIES AND INSTALLATIONS OF PRODUCT SPECIFICATION SECTION.
4. REFER TO FLOORING TRANSITION AND THRESHOLD DETAILS ON DETAIL SHEETS FOR TYPE AND LOCATION OF TRANSITIONS AND THRESHOLDS.
5. NEW FLOORING TO EXTEND UNDER ALL BUILT-IN CASEWORK.
6. CONTRACTOR TO VERIFY W/ ARCHITECT ALL MATERIAL / COLOR TERMINATION POINTS ON ALL HORIZONTAL & VERTICAL SURFACES PRIOR TO START OF WORK.
7. INTERIOR PAINTED WALLS ARE TO BE P1 TYP, U.O.N.. SEE FINISH SCHEDULE AND PROJECT SPECIFICATION FOR PAINTING SCHEDULE AND SHEEN DESIGNATION, U.O.N.
8. ALL INTERIOR GRILLES AND REGISTERS TO MATCH ADJACENT WALL COLOR, U.O.N.
9. ALL PAINTED HOLLOW METAL DOOR FRAMES TO BE PAINTED ON ALL SIDES, TYP U.O.N.. SEE DOOR SCHEDULE FOR COLOR & FINISH TYPES.
10. ALL PAINTED METAL WINDOW FRAMES TO BE PAINTED ON ALL SIDES, TYP U.O.N.. SEE WINDOW SCHEDULE FOR COLOR & FINISH TYPES.
11. FOR FACTORY FINISH WINDOW FRAMES SEE WINDOW SCHEDULE FOR COLOR & FINISH TYPES.
12. FOR FLOOR TRANSITION DETAIL, SEE 14/A-9.1

FINISH PLAN LEGEND

SEE A-7 SERIES SHEET FOR FURTHER INFORMATION

ROOM NAME

ROOM #	
P1	WALL FINISH CODE
B1	BASE FINISH CODE
EF	FLOOR FINISH CODE

—●— FLOOR MATERIAL TRANSITION

▨ (E) BUILDING AREA, NO WORK

FINISH CODES

WALL

P1	PAINT
WT1	CERAMIC WALL TILE

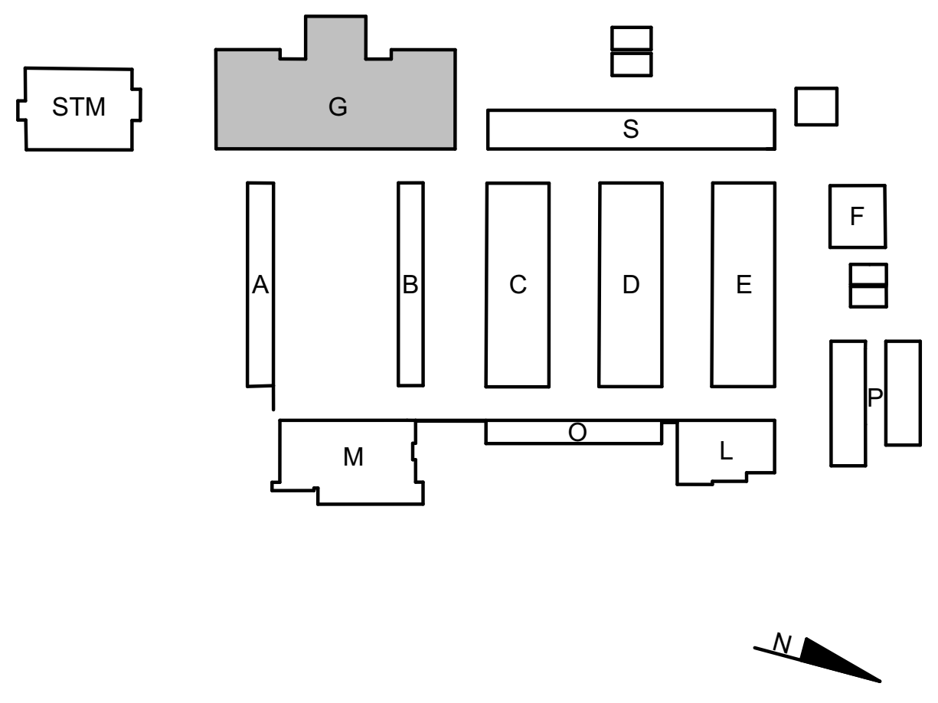
FLOOR

F1	FLUID-APPLIED EPOXY FLOORING
~~F2~~	~~WOOD FLOORING~~

BASE

B1	4" RUBBER BASE
B2	FLUID-APPLIED COVE BASE
B3	VENTED COVE BASE

KEY PLAN



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APP: 01-122019 INC:
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DATE: 6/24/2025

QUATTROCCHI KWOK
ARCHITECTS

Main:
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(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET 2026

4.15.2026

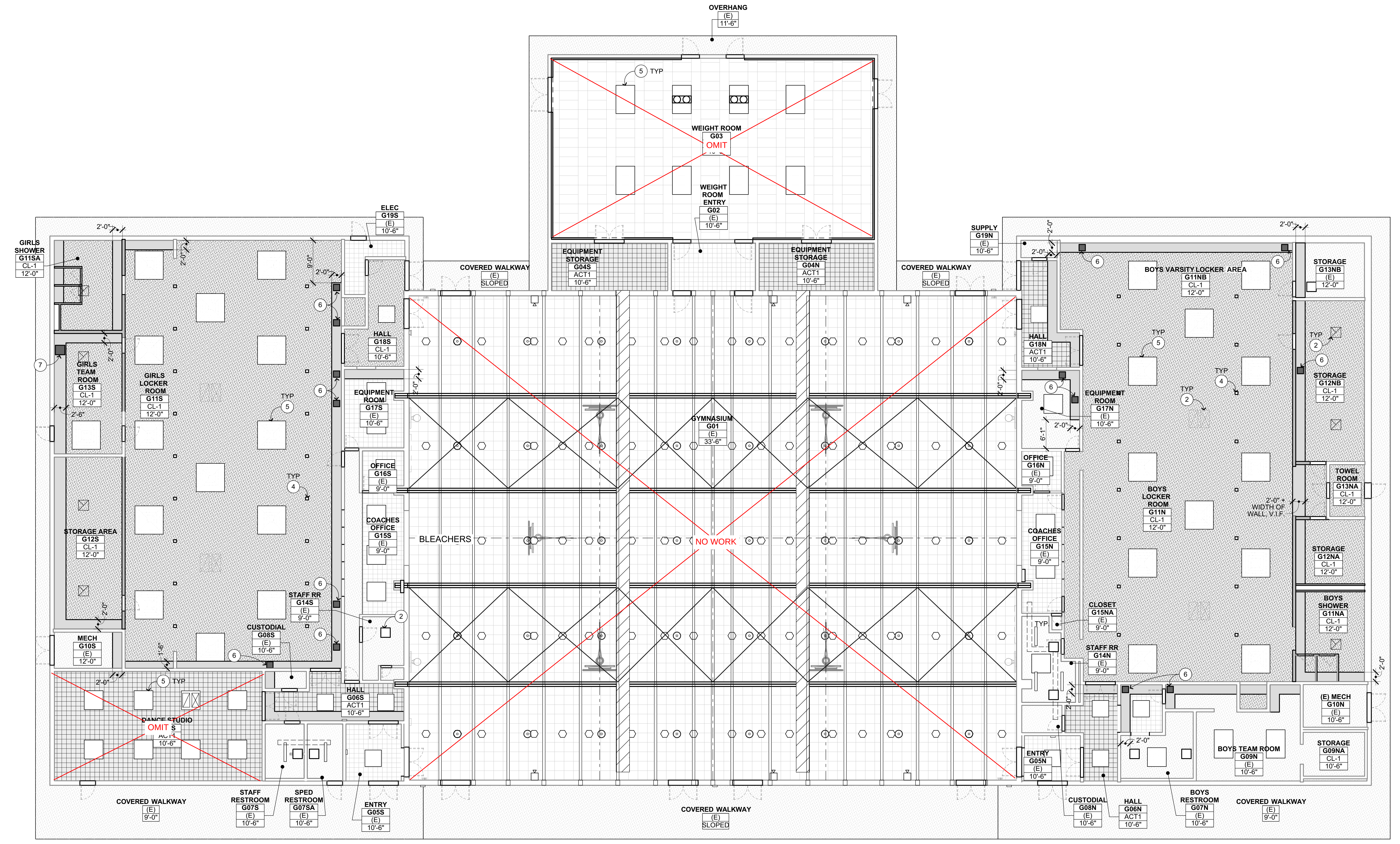
SHEET TITLE

BUILDING G FINISH PLAN

SHEET NUMBER

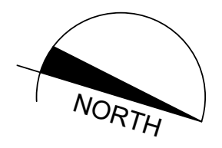
A-G2.2

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM



REFLECTED CEILING PLAN 1

3/32" = 1'-0"



REFLECTED CEILING PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. FIRE SPRINKLER ITEM, S.F.P.D.
2. MECHANICAL ITEM, S.M.D.
3. ELECTRICAL ITEM, S.E.D.
4. EXISTING STRUCTURAL COLUMN TO REMAIN, PROTECT IN PLACE
5. EXISTING SKYLIGHTS TO REMAIN, PROTECT IN PLACE
6. 16"x16" CEILING ACCESS PANEL, S.P.D.; SEE 6 / A-10.1
7. 24"x24" CEILING ACCESS PANELS, S.P.D.; SEE 6 / A-10.1

REFLECTED CEILING PLAN GENERAL NOTES

1. NOTES & SYMBOLS ARE TO APPLY TO ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDACY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. PENDANT LIGHT FIXTURE LOCATION DIMENSIONS ARE NOMINAL. VERIFY IN FIELD TO MAINTAIN 45° SWING CLEARANCES TO FIXED ELEMENTS.
3. S.E.D. FOR HORNS, SPEAKERS, PULL STATIONS, LIGHT FIXTURES AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. S.E.D. FOR EXIT SIGNS & EMERGENCY LIGHTING CONDITIONS.
5. S.M.D. FOR PIPING, REGISTERS & VENTS NOT OTHERWISE SHOWN. MECHANICAL DUCT LOCATION DIMENSIONS ARE NOMINAL. VERIFY IN FIELD TO MAINTAIN CLEARANCES TO FIXED ELEMENTS.
6. CBC TABLE 601- ROOFS AND THEIR MEMBERS OTHER THAN THE STRUCTURAL FRAME MAY BE OF UNPROTECTED NON-COMBUSTIBLE MATERIALS WHEN EVERY PART OF ROOF FRAMING INCLUDING THE STRUCTURAL FRAME IS 20 FEET OR MORE ABOVE THE FLOOR IMMEDIATELY BELOW

REFLECTED CEILING PLAN LEGEND

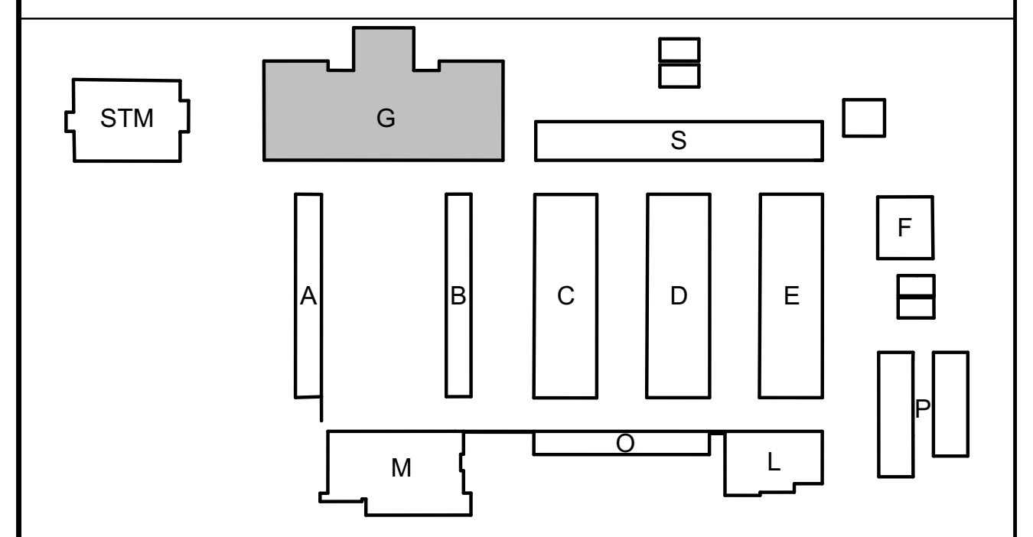
XX1 X'-X" **ROOM NAME** **ROOM #** XX1 X'-X"	XX1 REFERS TO CEILING FINISH CODE SEE BELOW. X'-X" REFERS TO FINISHED CEILING HEIGHT AFF. WHERE CEILING HEIGHT IS INDICATED AS "OPEN" OR " - ", ROOM IS OPEN TO STRUCTURE ABOVE. FOR CEILING CONFIGURATION & HEIGHT WHERE CEILING HEIGHT IS INDICATED AS CURVED, SLOPING, OR VARIES, REFER TO SECTION DRAWINGS.
	DOORS SHOWN DASHED INDICATE DOOR BELOW. FOR DEMO, (E), AND (N) DOOR/FRAME INFORMATION SEE FLOOR PLANS & DOOR SCHEDULE
◫ ▭ ⊡ ◉ ○ ⊢○ ⊞	ELECTRICAL ITEMS, S.E.D.
☒ ☒ ◺	MECHANICAL ITEMS, S.M.D.
⊗	FIRE SPRINKLERS, S.F.P.D.

CEILING FINISH CODES

FOR PAINT FINISHES SEE SEC. 09 9123 (INTERIOR).

▨	CL-1	(E) CEMENT PLASTER SOFFIT/CEILING TO REMAIN, PROTECT, PAINT, SEE FINISH SCHEDULE
▨	(E)	EXISTING TO REMAIN, NO SCOPE OF WORK
▭	(E)	EXISTING TO REMAIN, NO SCOPE OF WORK
⊞	ACT1	(E) 1X1 DIRECT APPLIED ACOUSTIC CEILING TILES TO BE REPLACED IN KIND
⊞	(E)	EXISTING TO REMAIN, NO SCOPE OF WORK
▭	(E)	EXISTING TO REMAIN, NO SCOPE OF WORK
▩	CL-2	GYPSUM BOARD SOFFIT AT -0'-6" FROM ROOM'S CEILING HT. SEE 7 / A-10.1 FOR INFORMATION. S.S.D.

KEY PLAN



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Jim Theiss
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DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

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4.15.2026

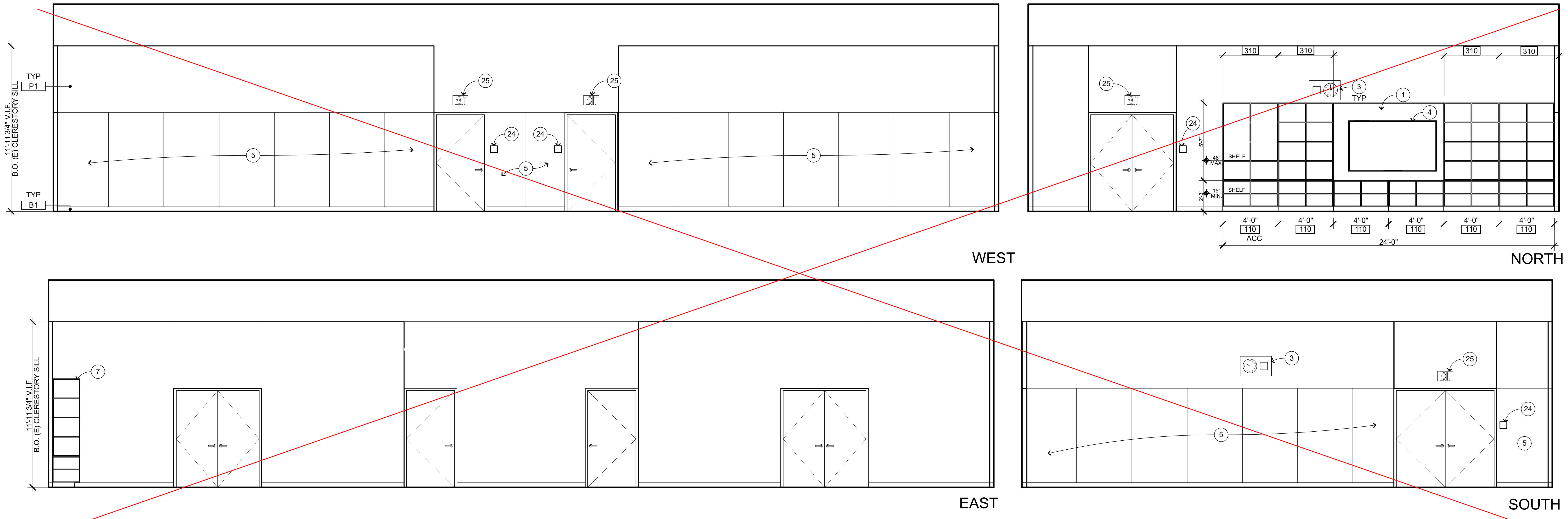
SHEET TITLE

BUILDING G REFLECTED CEILING PLAN

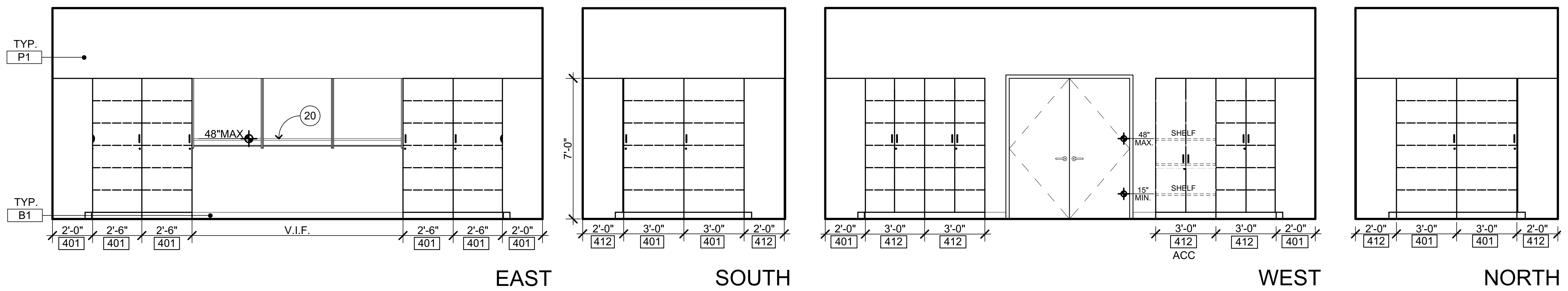
SHEET NUMBER

A-G3.1

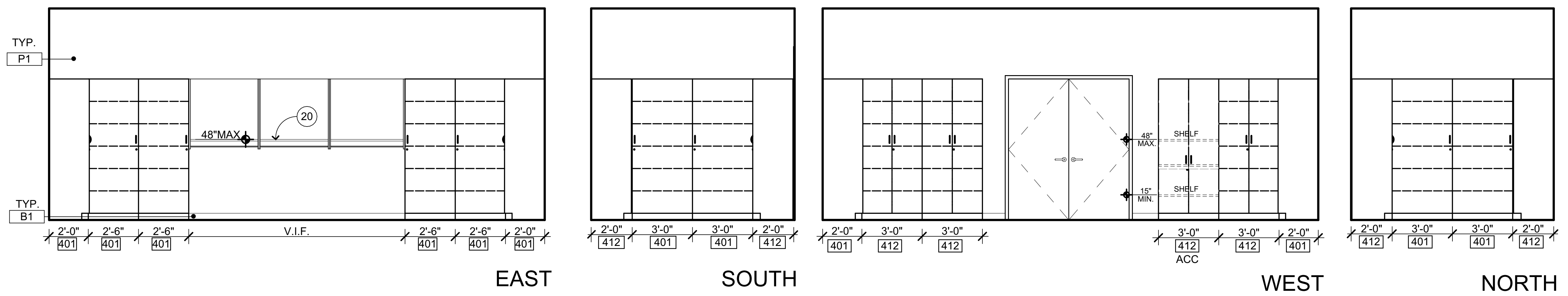
BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G-6/11/2025 12:03 PM



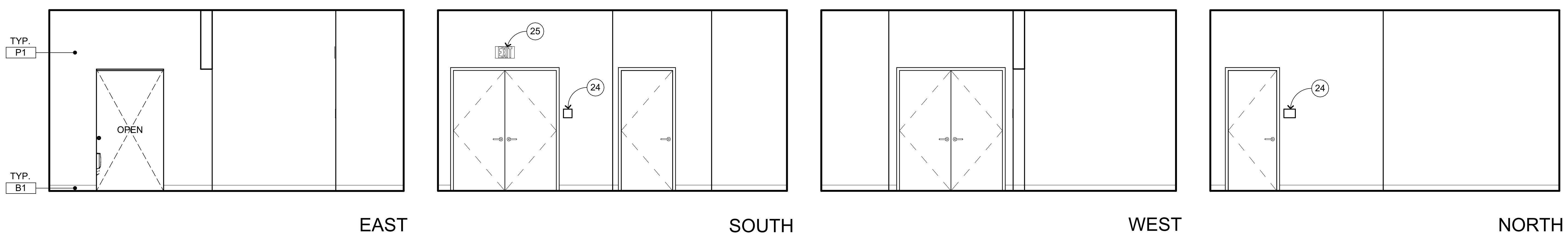
WEIGHT ROOM **G03**
1/4" = 1'-0" A-G2.1



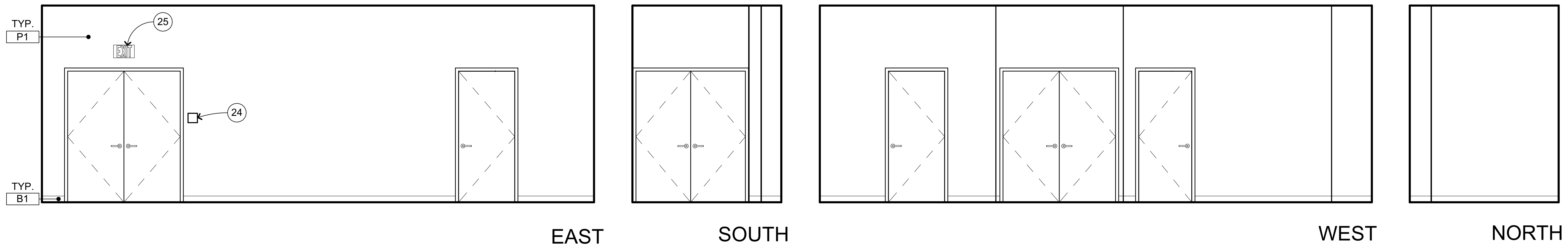
EQUIPMENT STORAGE **G04N**
1/4" = 1'-0" A-G2.1



EQUIPMENT STORAGE **G04S**
1/4" = 1'-0" A-G2.1



HALL **G06N**
1/4" = 1'-0" A-G2.1



HALL **G06S**
1/4" = 1'-0" A-G2.1

PLAN/INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

① INSTALL MAGNETIC WHITEBOARD PANELS & MAGNETIC MARKER TRAY
② PROJECTION SCREEN
③ CLOCK/SPEAKER, S.E.D.
④ CABINET-MOUNTED DISPLAY MONITOR, SEE 18/A-10.2
⑤ IMPACT RESISTANT WALL-MOUNTED MIRRORS, SEE 8/A-10.1 28/A-10.1
⑥ TEAM ROOM LOCKERS - FULL HT. FOR ATTACHMENT, SEE 3/A-10.1
⑦ CASEWORK, SEE 3/A-10.2
⑧ BOTTLE FILLER, S.P.D. AND SEE 13/A-10.1
⑨ (E) STRUCTURAL UPPER WOOD RAIL, (E) STRUCT'L COLUMN, S.S.D.
⑩ STANDARD BENCH, 12"D x 72", 96"L. SEE 28/A-10.2 FOR ANCHORAGE
⑪ 12WX24HX12D DUAL TIERED LOCKERS, SEE 3/A-10.1
⑫ TOILET PARTITION, SEE 9/A-10.1 FOR URINAL SCREEN, SEE 14/A-10.1
⑬ STANDARD BI-FOLD SHOWER SEAT, SEE 5/A-10.1
⑭ (E) HAND DRYER TO REMAIN, PROTECT IN PLACE
⑮ 0.1875-INCH PREMANUFACTURED ALUMINUM SCREN AND GATE, SEE 22/A-10.2 23/A-10.2 #DrgID/#LayID
⑯ STRUCTURAL BEAM, S.S.D.
⑰ (E) WINDOW W/ NEW GLAZING
⑱ PLUMBING FIXTURE, S.P.D.
⑲ INSTALL TOILET ACCESSORIES, SEE SCHEDULE
⑳ INSTALL SHELF AND POLE
㉑ (E) ROLL-UP WINDOW TO REMAIN, PROTECT IN PLACE
㉒ (E) WINDOW TO REMAIN, PROTECT IN PLACE
㉓ WALL MOUNTED FLAT PANEL MONITOR, SEE 23/A-10.1
㉔ SIGNAGE, SEE 27/A-10.1 AND SEE FLOOR PLAN, A-G2.1
㉕ (E) ELECTRICAL ITEM, S.E.D.
㉖ (E) STAIR HANDRAIL TO REMAIN, PROTECT IN PLACE
㉗ ACCESSIBLE BENCH, 24"D x 48"L. SEE 25/A-10.2

INTERIOR ELEVATION GENERAL NOTES

1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
3. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE ELEMENTS AT ACCESSIBLE FIXTURES SEE 10/A-10.1
5. FLUSH VALVE HANDLES SHALL BE LOCATED AT THE WIDE SIDE OF ACCESSIBLE STALL.
6. FLOORING & BASE SHALL EXTEND UNDER ACCESSIBLE SINK/LAVATORY BASE CABINETS TO THE WALL. WATER SUPPLY AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
7. PROVIDE SOLID BLOCKING FOR CABINET, ACCESSORY, OR EQUIPMENT MOUNTING 1/A-10.1
8. FOR TYP CASEWORK DEPTH, ATTACHMENT, AND NOTES, SEE 3/A-10.2
9. THIS SHEET SHOWS CHANGES IN HEIGHT FROM THE ROOM-SPECIFIC INTERIOR ELEVATIONS WITHIN THE DRAWING SET AND IS INTENDED AS A GENERAL REFERENCE ONLY. SEE ROOM-SPECIFIC INTERIOR ELEVATIONS FOR THE FULL LAYOUT OF EACH ROOM.
10. ALL GENERAL NOTES AND KEYNOTES FROM ROOM-SPECIFIC INTERIOR ELEVATIONS STILL APPLY.
11. THE CASEWORK AND WALL PANEL HEIGHTS SHOWN ON THIS SHEET ARE INTENDED AS THE BASE BID. THE CASEWORK AND WALL PANEL HEIGHTS SHOWN ON THE INTERIOR ELEVATIONS ARE A BID ALTERNATE.

FINISH CODES

FOR OVERALL WALL AND BASE FINISHES, SEE FINISH PLAN.
FOR PAINT FINISHES SEE SEC.09 9123 (INTERIOR).
ALL GYP BD TO BE TYPE 'X'.

WALL

P1	PAINT
WT1	CERAMIC WALL TILE

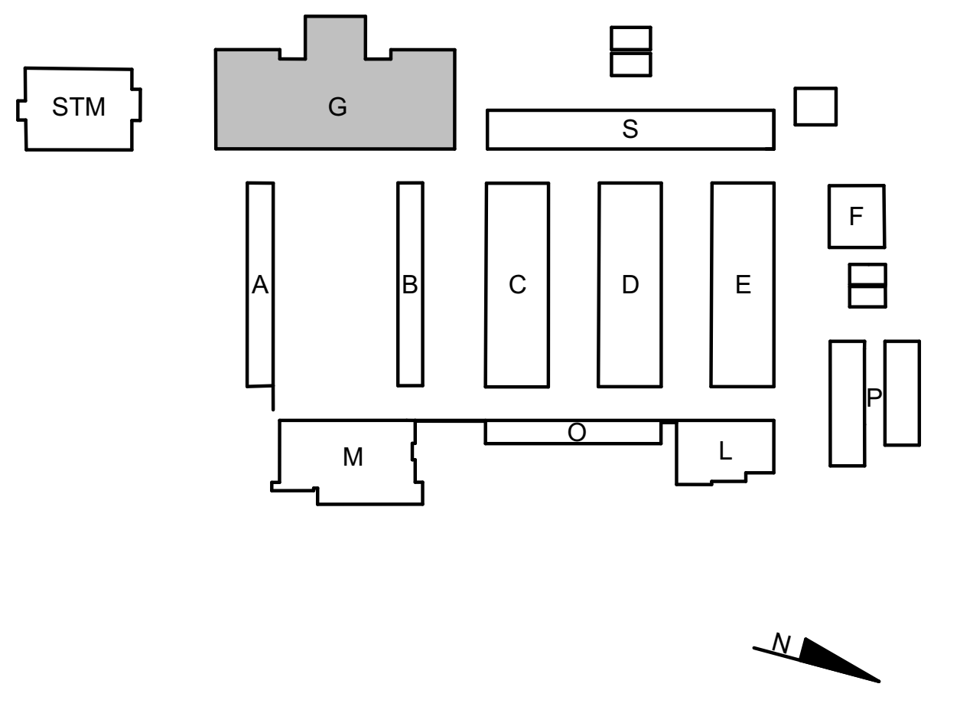
FLOOR

F1	FLUID-APPLIED EPOXY FLOORING
F2	WOOD FLOORING

BASE

B1	4" RUBBER BASE
B2	FLUID-APPLIED COVE BASE
B3	VENTED COVE BASE

KEY PLAN



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ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET 2026
4.15.2026

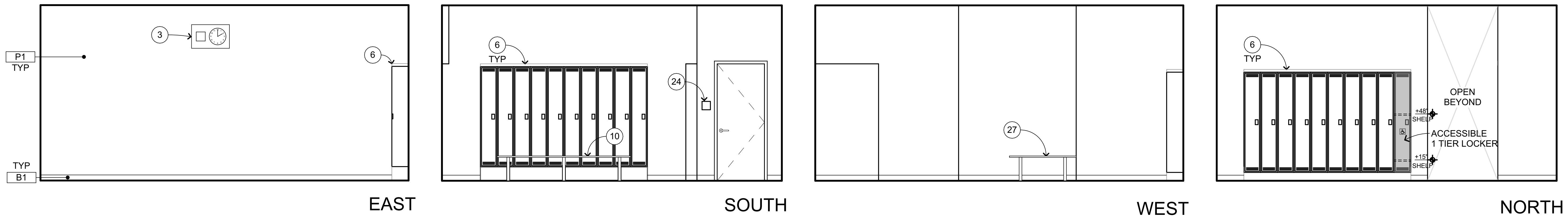
SHEET TITLE

BUILDING G INTERIOR ELEVATIONS

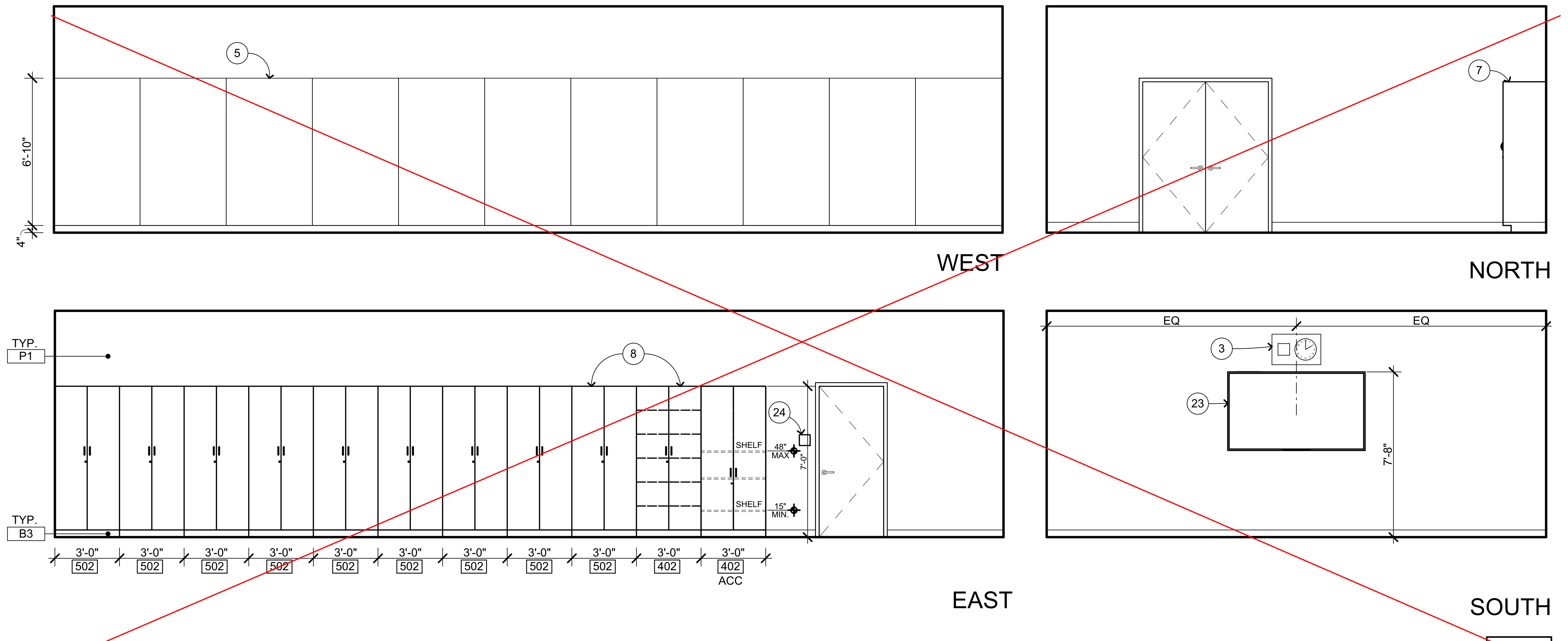
SHEET NUMBER

A-G7.1

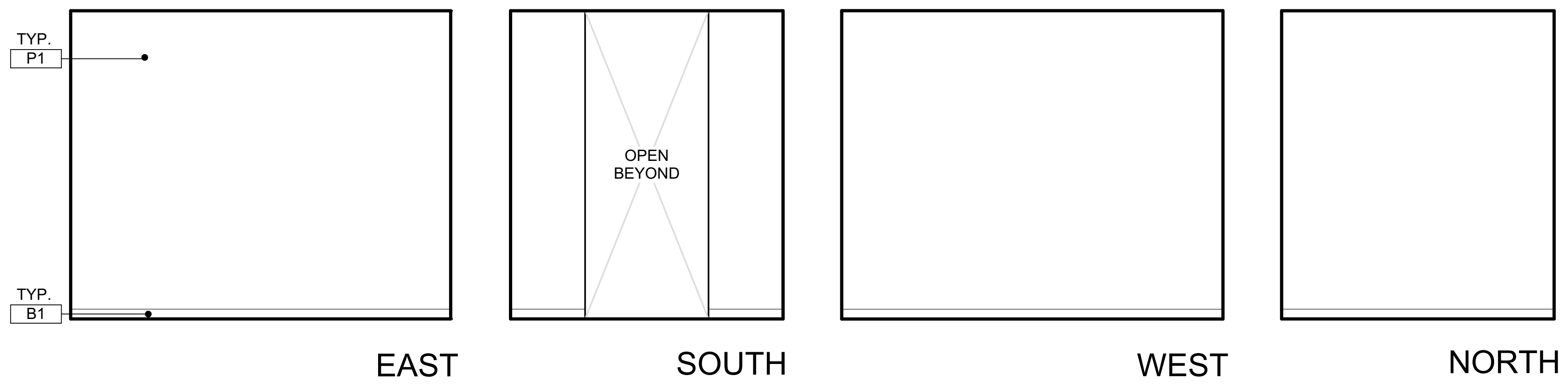
BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G 6/3/2025 4:11 PM



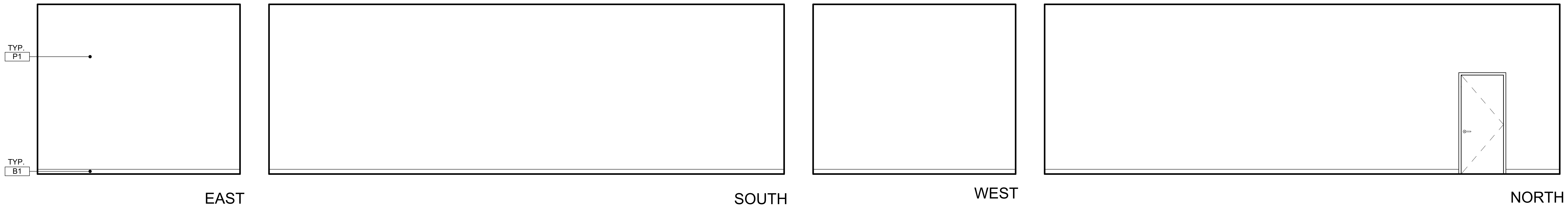
BOYS TEAM ROOM **G09N**
1/4" = 1'-0" A-G2.1



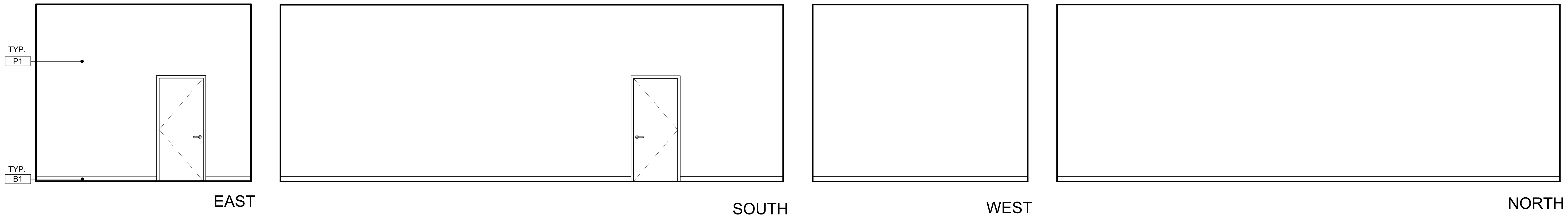
DANCE STUDIO **G09S**
1/4" = 1'-0" A-G2.1



STORAGE **G09NA**
1/4" = 1'-0" A-G2.1



STORAGE AREA **G12S**
1/4" = 1'-0" A-G2.1



STORAGE **G12NB**
1/4" = 1'-0" A-G2.1

PLAN/INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

①	INSTALL MAGNETIC WHITEBOARD PANELS & MAGNETIC MARKER TRAY
②	PROJECTION SCREEN
③	CLOCK/SPEAKER, S.E.D.
④	CABINET-MOUNTED DISPLAY MONITOR, SEE 18/A-10.2
⑤	IMPACT RESISTANT WALL-MOUNTED MIRRORS, SEE 8/A-10.1 28/A-10.1
⑥	TEAM ROOM LOCKERS - FULL HT. FOR ATTACHMENT, SEE 3/A-10.1
⑦	CASEWORK, SEE 3/A-10.2
⑧	BOTTLE FILLER, S.P.D. AND SEE 13/A-10.1
⑨	(E) STRUCTURAL UPPER WOOD RAIL, (E) STRUCT'L COLUMN, S.S.D.
⑩	STANDARD BENCH, 12"D x 72", 96"L. SEE 28/A-10.2 FOR ANCHORAGE
⑪	12WX24HX12D DUAL TIERED LOCKERS, SEE 3/A-10.1
⑫	TOILET PARTITION, SEE 9/A-10.1 FOR URINAL SCREEN, SEE 14/A-10.1
⑬	STANDARD BI-FOLD SHOWER SEAT, SEE 5/A-10.1
⑭	(E) HAND DRYER TO REMAIN, PROTECT IN PLACE
⑮	0.1875-INCH PREMANUFACTURED ALUMINUM SCREN AND GATE, SEE 22/A-10.2 23/A-10.2 #DrgID/#LayID
⑯	STRUCTURAL BEAM, S.S.D.
⑰	(E) WINDOW W/ NEW GLAZING
⑱	PLUMBING FIXTURE, S.P.D.
⑲	INSTALL TOILET ACCESSORIES, SEE SCHEDULE
⑳	INSTALL SHELF AND POLE
㉑	(E) ROLL-UP WINDOW TO REMAIN, PROTECT IN PLACE
㉒	(E) WINDOW TO REMAIN, PROTECT IN PLACE
㉓	WALL MOUNTED FLAT PANEL MONITOR, SEE 23/A-10.1
㉔	SIGNAGE, SEE 27/A-10.1 AND SEE FLOOR PLAN, A-G2.1
㉕	(E) ELECTRICAL ITEM, S.E.D.
㉖	(E) STAIR HANDRAIL TO REMAIN, PROTECT IN PLACE
㉗	ACCESSIBLE BENCH, 24"D x 48"L. SEE 25/A-10.2

INTERIOR ELEVATION GENERAL NOTES

1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
3. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE ELEMENTS AT ACCESSIBLE FIXTURES SEE 10/A-10.1
5. FLUSH VALVE HANDLES SHALL BE LOCATED AT THE WIDE SIDE OF ACCESSIBLE STALL.
6. FLOORING & BASE SHALL EXTEND UNDER ACCESSIBLE SINK/LAVATORY BASE CABINETS TO THE WALL. WATER SUPPLY AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
7. PROVIDE SOLID BLOCKING FOR CABINET, ACCESSORY, OR EQUIPMENT MOUNTING 1/A-10.1
8. FOR TYP CASEWORK DEPTH, ATTACHMENT, AND NOTES, SEE 3/A-10.2
9. THIS SHEET SHOWS CHANGES IN HEIGHT FROM THE ROOM-SPECIFIC INTERIOR ELEVATIONS WITHIN THE DRAWING SET AND IS INTENDED AS A GENERAL REFERENCE ONLY. SEE ROOM-SPECIFIC INTERIOR ELEVATIONS FOR THE FULL LAYOUT OF EACH ROOM.
10. ALL GENERAL NOTES AND KEYNOTES FROM ROOM-SPECIFIC INTERIOR ELEVATIONS STILL APPLY.
11. THE CASEWORK AND WALL PANEL HEIGHTS SHOWN ON THIS SHEET ARE INTENDED AS THE BASE BID. THE CASEWORK AND WALL PANEL HEIGHTS SHOWN ON THE INTERIOR ELEVATIONS ARE A BID ALTERNATE.

FINISH CODES

FOR OVERALL WALL AND BASE FINISHES, SEE FINISH PLAN.
FOR PAINT FINISHES SEE SEC.09 9123 (INTERIOR).
ALL GYP BD TO BE TYPE 'X'.

WALL

P1	PAINT
WT1	CERAMIC WALL TILE

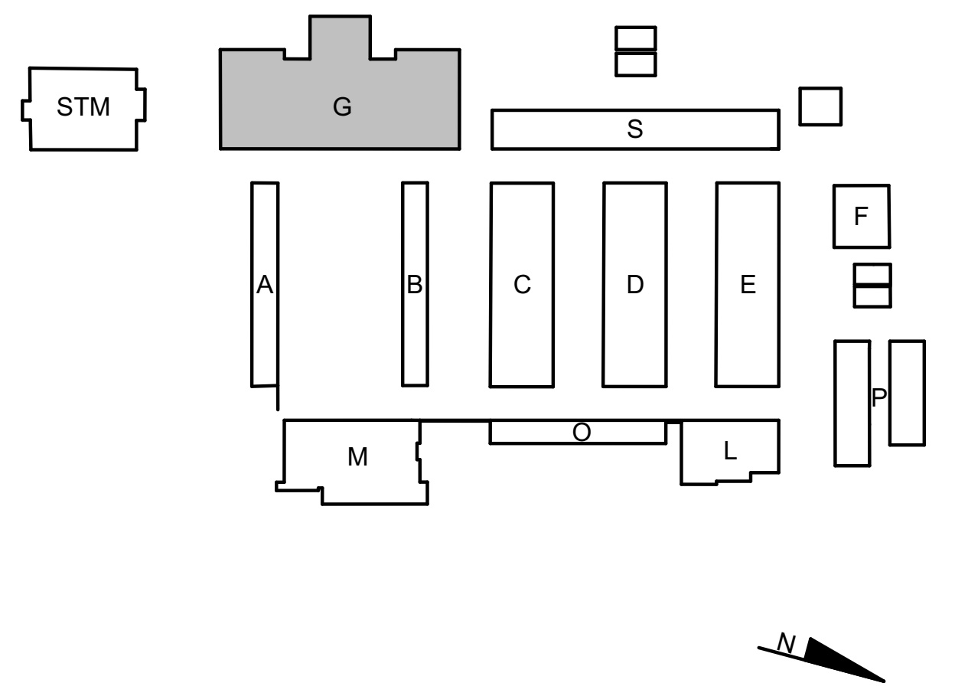
FLOOR

F1	FLUID-APPLIED EPOXY FLOORING
F2	WOOD FLOORING

BASE

B1	4" RUBBER BASE
B2	FLUID-APPLIED COVE BASE
B3	VENTED COVE BASE

KEY PLAN



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK
ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
SIGNED: JUNE 5, 2025

TENNYSON
HIGH SCHOOL

BUILDING G
MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET 2026
4.15.2026

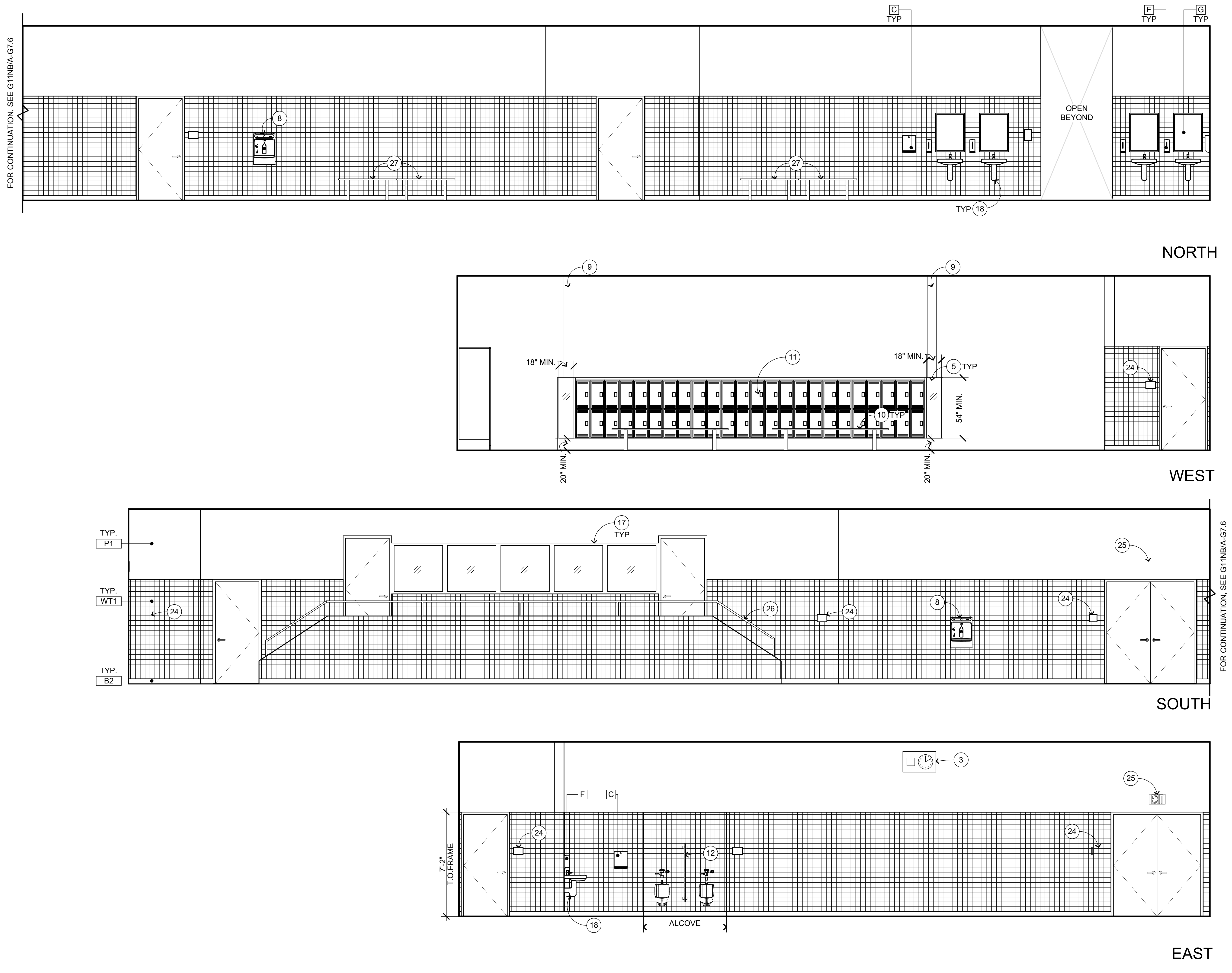
SHEET TITLE

BUILDING G
INTERIOR
ELEVATIONS

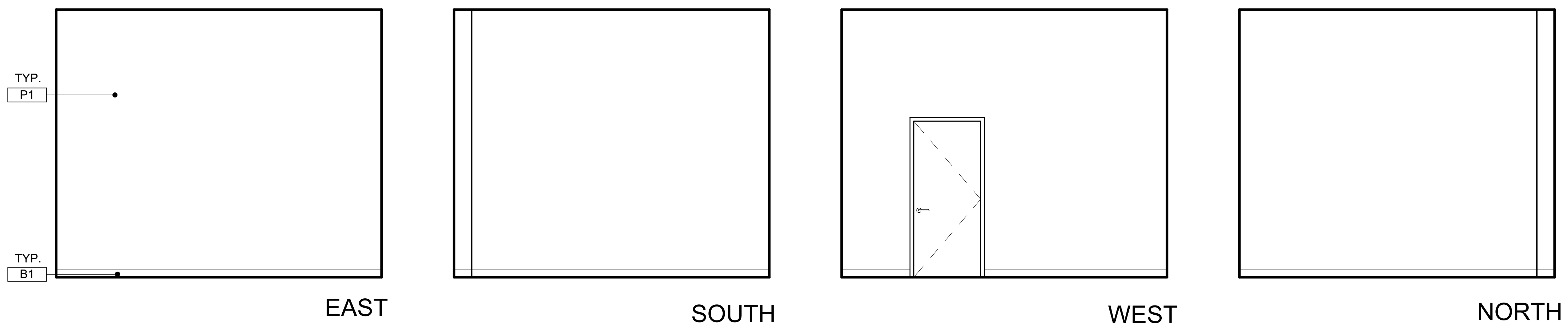
SHEET NUMBER

A-G7.2

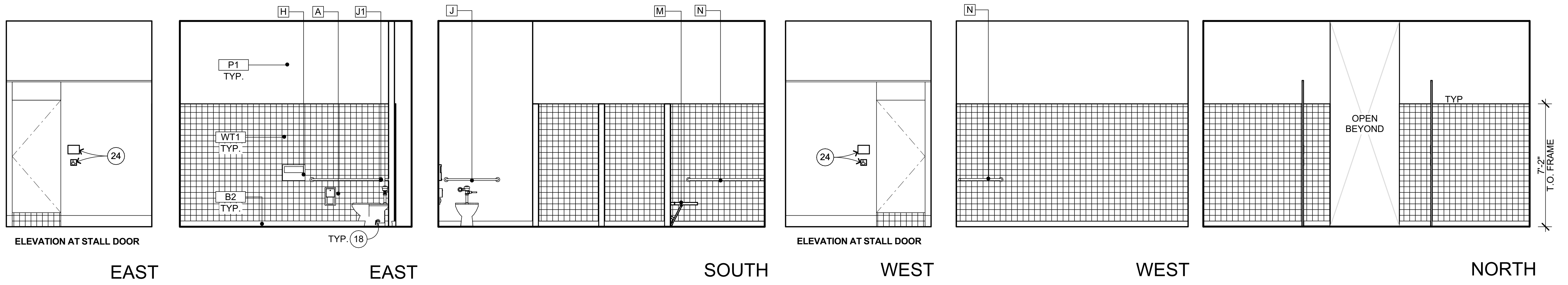
BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G 6/3/2025 4:11 PM



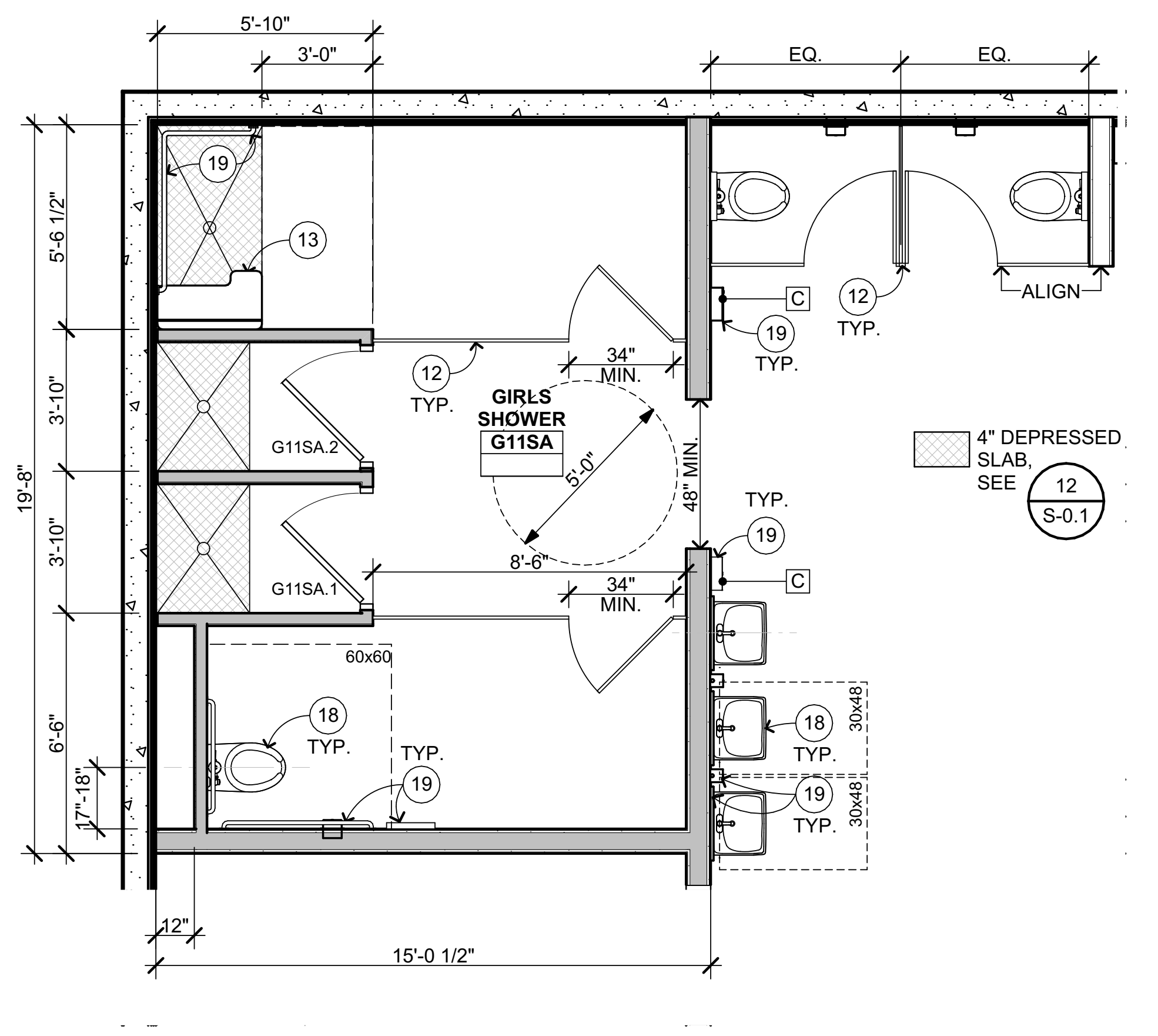
BOYS LOCKERS G11NA
1/4" = 1'-0" A-G2.1



STORAGE G12NA
1/4" = 1'-0" A-G2.1



GIRLS SHOWER G11SA
1/4" = 1'-0" A-G2.1



ENLARGED FLOOR PLAN - GIRLS SHOWER ①
1/4" = 1'-0"

PLAN/INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. INSTALL MAGNETIC WHITEBOARD PANELS & MAGNETIC MARKER TRAY
2. PROJECTION SCREEN
3. CLOCK/SPEAKER, S.E.D.
4. CABINET-MOUNTED DISPLAY MONITOR, SEE 18/A-10.2
5. IMPACT RESISTANT WALL-MOUNTED MIRRORS, SEE 8/A-10.1 28/A-10.1
6. TEAM ROOM LOCKERS - FULL HT. FOR ATTACHMENT, SEE 3/A-10.1
7. CASEWORK, SEE 3/A-10.2
8. BOTTLE FILLER, S.P.D. AND SEE 13/A-10.1
9. (E) STRUCT'L COLUMN TO REMAIN.
10. STANDARD BENCH, 12"D x 72", 96"L. SEE 28/A-10.2 FOR ANCHORAGE
11. 12WX24HX12D DUAL TIERED LOCKERS, SEE 3/A-10.1
12. TOILET PARTITION, SEE 9/A-10.1 FOR URINAL SCREEN, SEE 14/A-10.1
13. STANDARD BI-FOLD SHOWER SEAT, SEE 5/A-10.1
14. (E) HAND DRYER TO REMAIN, PROTECT IN PLACE
15. (NOT USED)
16. (NOT USED)
17. (E) WINDOW W/ NEW GLAZING
18. PLUMBING FIXTURE, S.P.D.
19. INSTALL TOILET ACCESSORIES, SEE SCHEDULE
20. INSTALL SHELF AND POLE
21. (E) ROLL-UP WINDOW TO REMAIN, PROTECT IN PLACE
22. (E) WINDOW TO REMAIN, PROTECT IN PLACE
23. WALL MOUNTED FLAT PANEL MONITOR, SEE 23/A-10.1
24. SIGNAGE, SEE 27/A-10.1 AND SEE FLOOR PLAN, A-G2.1
25. (E) ELECTRICAL ITEM, S.E.D.
26. (E) STAIR HANDRAIL TO REMAIN, PROTECT IN PLACE
27. ACCESSIBLE BENCH, 24"D x 48"L. SEE 25/A-10.2

INTERIOR ELEVATION GENERAL NOTES

1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
3. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE ELEMENTS AT ACCESSIBLE FIXTURES SEE 10/A-10.1
5. FLUSH VALVE HANDLES SHALL BE LOCATED AT THE WIDE SIDE OF ACCESSIBLE STALL.
6. FLOORING & BASE SHALL EXTEND UNDER ACCESSIBLE SINK/LAVATORY BASE CABINETS TO THE WALL. WATER SUPPLY AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
7. PROVIDE SOLID BLOCKING FOR CABINET, ACCESSORY, OR EQUIPMENT MOUNTING 1/A-10.1
8. FOR TYP CASEWORK DEPTH, ATTACHMENT, AND NOTES, SEE 3/A-10.2
9. THIS SHEET SHOWS CHANGES IN HEIGHT FROM THE ROOM-SPECIFIC INTERIOR ELEVATIONS WITHIN THE DRAWING SET AND IS INTENDED AS A GENERAL REFERENCE ONLY. SEE ROOM-SPECIFIC INTERIOR ELEVATIONS FOR THE FULL LAYOUT OF EACH ROOM.
10. ALL GENERAL NOTES AND KEYNOTES FROM ROOM-SPECIFIC INTERIOR ELEVATIONS STILL APPLY.
11. THE CASEWORK AND WALL PANEL HEIGHTS SHOWN ON THIS SHEET ARE INTENDED AS THE BASE BID. THE CASEWORK AND WALL PANEL HEIGHTS SHOWN ON THE INTERIOR ELEVATIONS ARE A BID ALTERNATE.

FINISH CODES

FOR OVERALL WALL AND BASE FINISHES, SEE FINISH PLAN.
FOR PAINT FINISHES SEE SEC.09 9123 (INTERIOR).
ALL GYP BD TO BE TYPE 'X'.

WALL

P1	PAINT
WT1	CERAMIC WALL TILE

FLOOR

F1	FLUID-APPLIED EPOXY FLOORING
F2	WOOD FLOORING

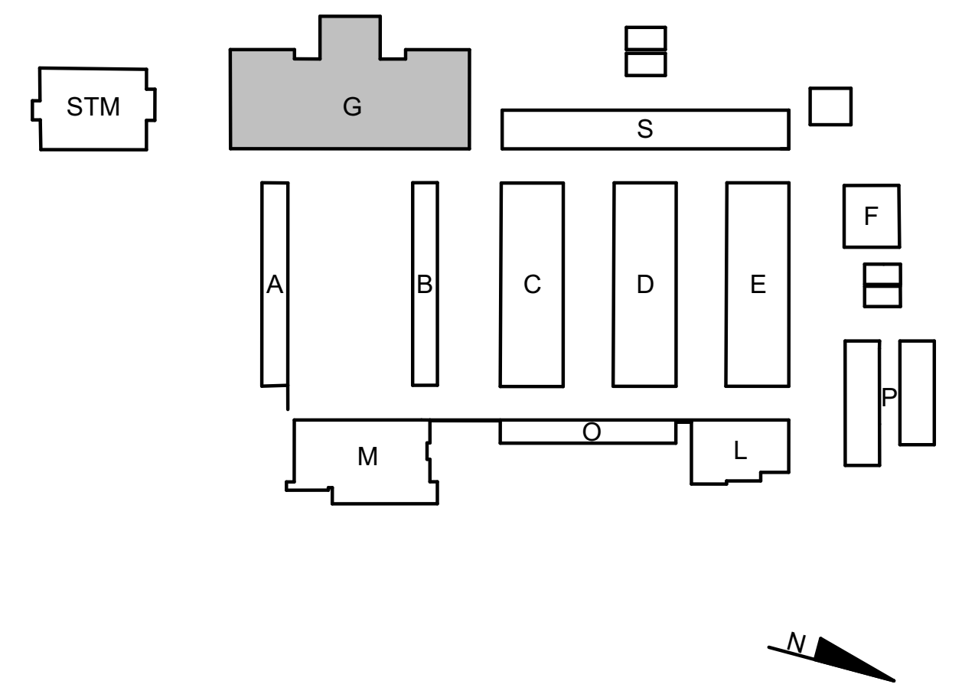
BASE

B1	4" RUBBER BASE
B2	FLUID-APPLIED COVE BASE
B3	VENTED COVE BASE

TOILET ACCESSORY SCHEDULE

A	TOILET PAPER DISPENSER, RECESSED (3" MAXIMUM PROJECTION)
B	TOILET PAPER DISPENSER, SURFACE MOUNTED
C	PAPER TOWEL DISPENSER, SURFACE MOUNTED
F	SOAP DISPENSER, SURFACE MOUNTED
G	24"x36" MIRROR (TYP), FOR ATTACHMENT SEE 8/A-10.1
H	TOILET SEAT COVER DISPENSER, SURFACE MOUNTED
J	36" GRAB BAR, FOR ATTACHMENT SEE 33/A-10.1
J1	48" GRAB BAR, FOR ATTACHMENT SEE 33/A-10.1
K	SANITARY NAPKIN DISPOSAL RECEPTACLE, SURFACE MOUNTED
M	ACCESSIBLE FOLDING SHOWER SEAT 5/A-10.1
N	ACCESSIBLE SHOWER GRAB BAR 5/A-10.1

KEY PLAN



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DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET 2026
4.15.2026

SHEET TITLE

BUILDING G INTERIOR ELEVATIONS

SHEET NUMBER

A-G7.3

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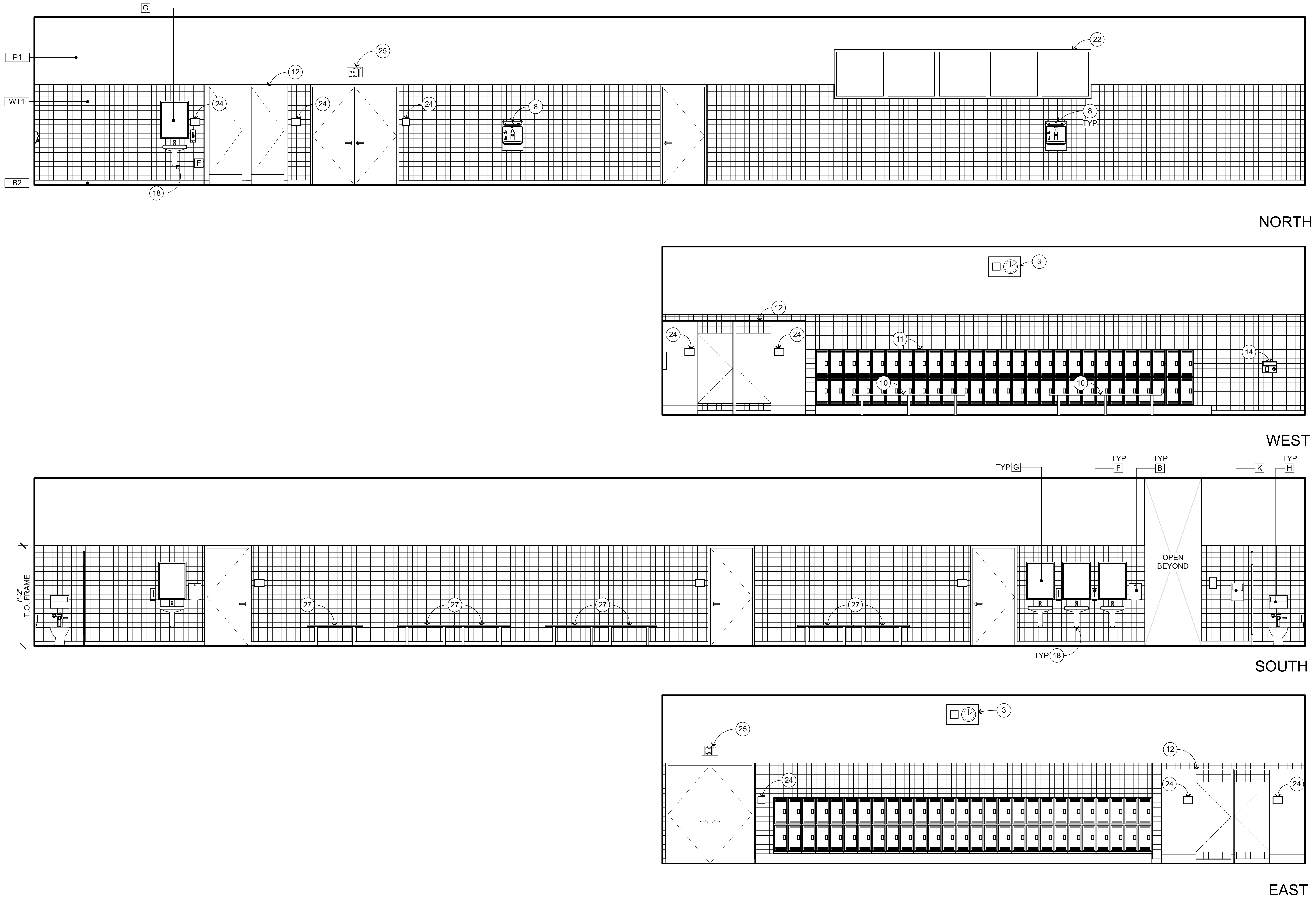
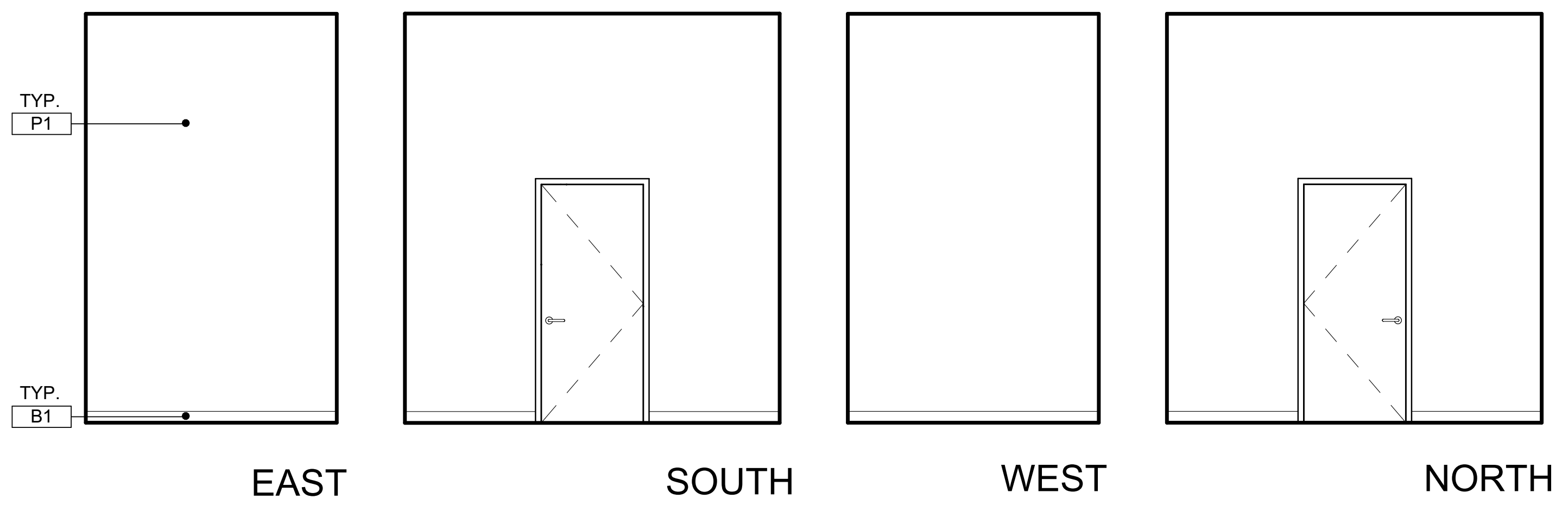
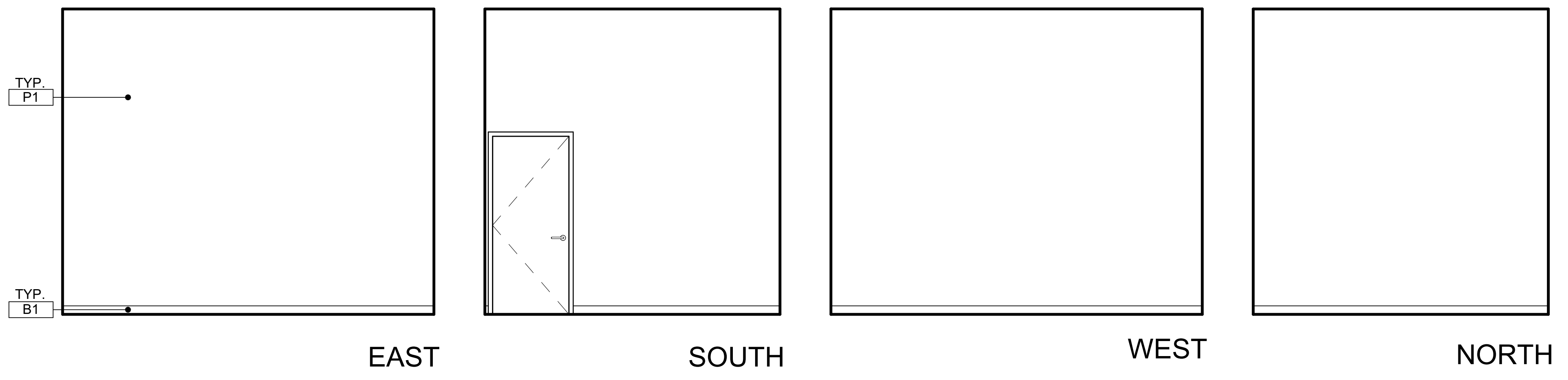


GIRLS LOCKER ROOM **G11S**
1/4" = 1'-0" A-G2.1



TOWEL ROOM **G13NA**
1/4" = 1'-0" A-G2.1



STORAGE **G13NB**
1/4" = 1'-0" A-G2.1

PLAN/INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

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③ CLOCK/SPEAKER, S.E.D.
④ CABINET-MOUNTED DISPLAY MONITOR, SEE 18/A-10.2
⑤ IMPACT RESISTANT WALL-MOUNTED MIRRORS, SEE 8/A-10.1 28/A-10.1
⑥ TEAM ROOM LOCKERS - FULL HT. FOR ATTACHMENT, SEE 3/A-10.1
⑦ CASEWORK, SEE 3/A-10.2
⑧ BOTTLE FILLER, S.P.D. AND SEE 13/A-10.1
⑨ (E) STRUCTURAL UPPER WOOD RAIL, (E) STRUCT'L COLUMN, S.S.D.
⑩ STANDARD BENCH, 12"D x 72", 96"L. SEE 28/A-10.2 FOR ANCHORAGE
⑪ 12WX24HX12D DUAL TIERED LOCKERS, SEE 3/A-10.1
⑫ TOILET PARTITION, SEE 9/A-10.1 FOR URINAL SCREEN, SEE 14/A-10.1
⑬ STANDARD BI-FOLD SHOWER SEAT, SEE 5/A-10.1
⑭ (E) HAND DRYER TO REMAIN, PROTECT IN PLACE
⑮ 0.1875-INCH PREMANUFACTURED ALUMINUM SCREN AND GATE, SEE 22/A-10.2 23/A-10.2 #DrgID/#LayID
⑯ STRUCTURAL BEAM, S.S.D.
⑰ (E) WINDOW W/ NEW GLAZING
⑱ PLUMBING FIXTURE, S.P.D.
⑲ INSTALL TOILET ACCESSORIES, SEE SCHEDULE
⑳ INSTALL SHELF AND POLE
㉑ (E) ROLL-UP WINDOW TO REMAIN, PROTECT IN PLACE
㉒ (E) WINDOW TO REMAIN, PROTECT IN PLACE
㉓ WALL MOUNTED FLAT PANEL MONITOR, SEE 23/A-10.1
㉔ SIGNAGE, SEE 27/A-10.1 AND SEE FLOOR PLAN, A-G2.1
㉕ (E) ELECTRICAL ITEM, S.E.D.
㉖ (E) STAIR HANDRAIL TO REMAIN, PROTECT IN PLACE
㉗ ACCESSIBLE BENCH, 24"D x 48"L. SEE 25/A-10.2

INTERIOR ELEVATION GENERAL NOTES

1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
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FINISH CODES

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FOR PAINT FINISHES SEE SEC.09 9123 (INTERIOR).
ALL GYP BD TO BE TYPE 'X'.

WALL

P1	PAINT
WT1	CERAMIC WALL TILE

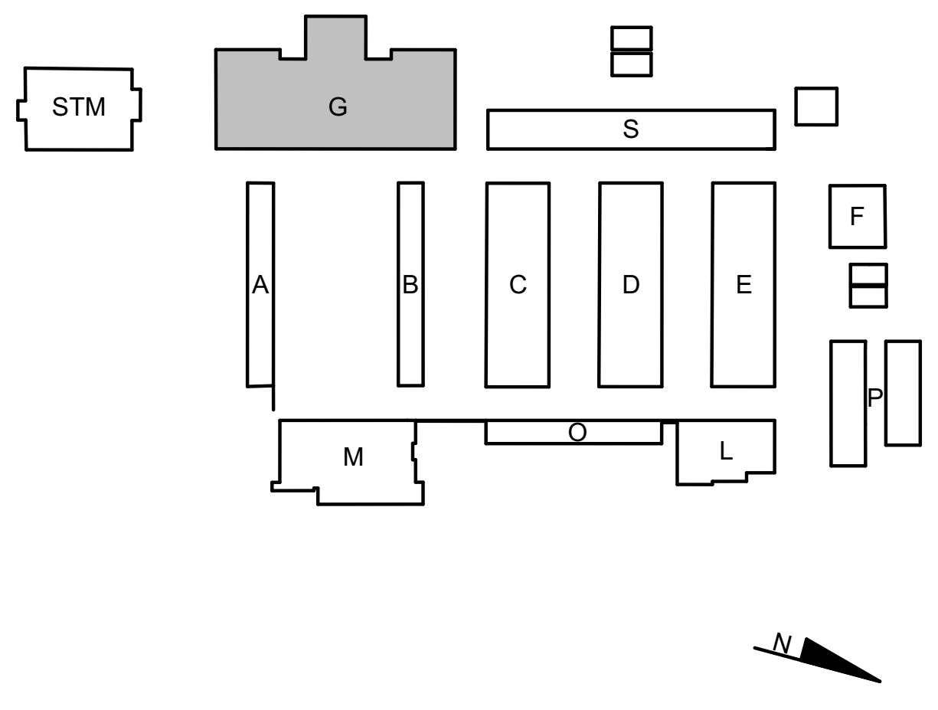
FLOOR

F1	FLUID-APPLIED EPOXY FLOORING
F2	WOOD FLOORING

BASE

B1	4" RUBBER BASE
B2	FLUID-APPLIED COVE BASE
B3	VENTED COVE BASE

KEY PLAN



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DSA APP NO. 01-122019
ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

BID SET 2026
4.15.2026

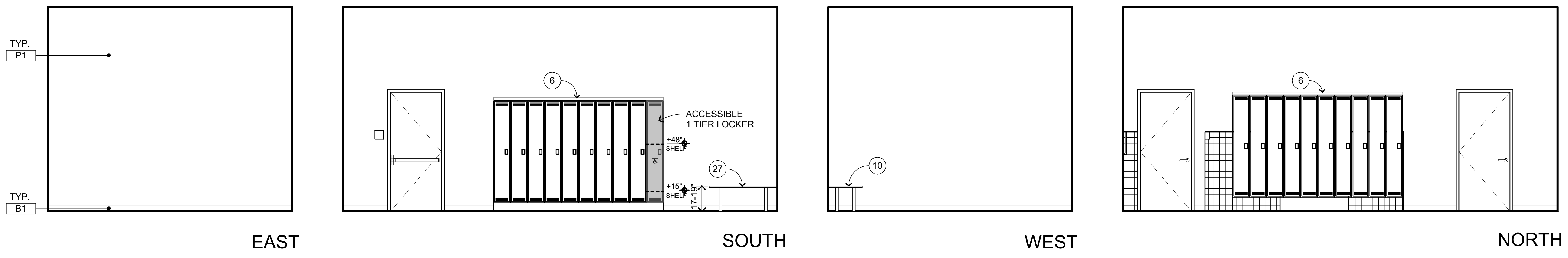
SHEET TITLE

BUILDING G INTERIOR ELEVATIONS

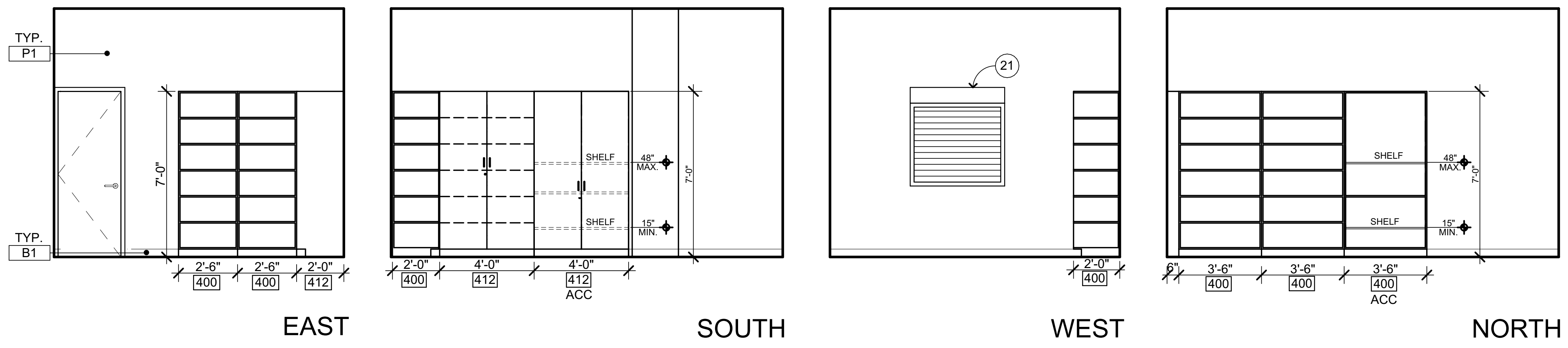
SHEET NUMBER

A-G7.4

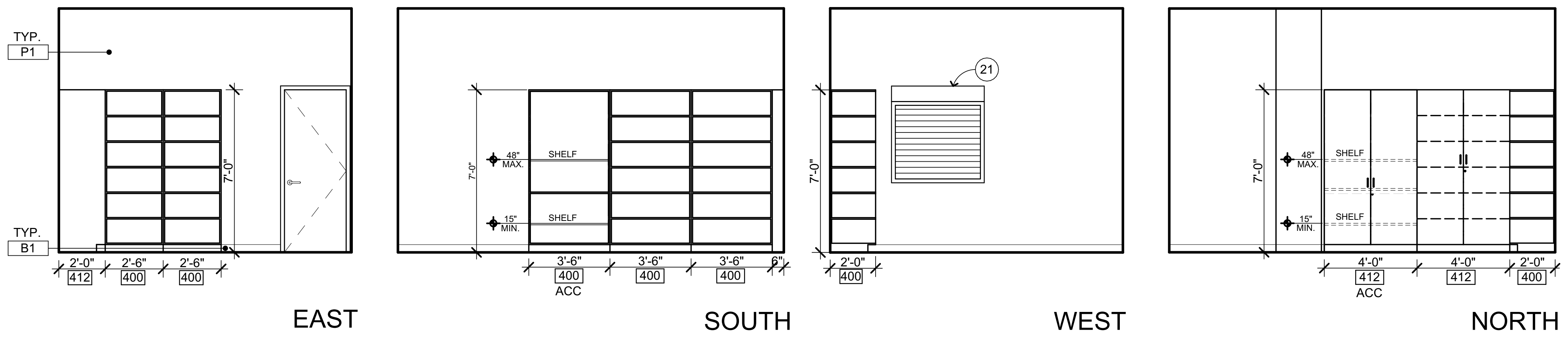
BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM



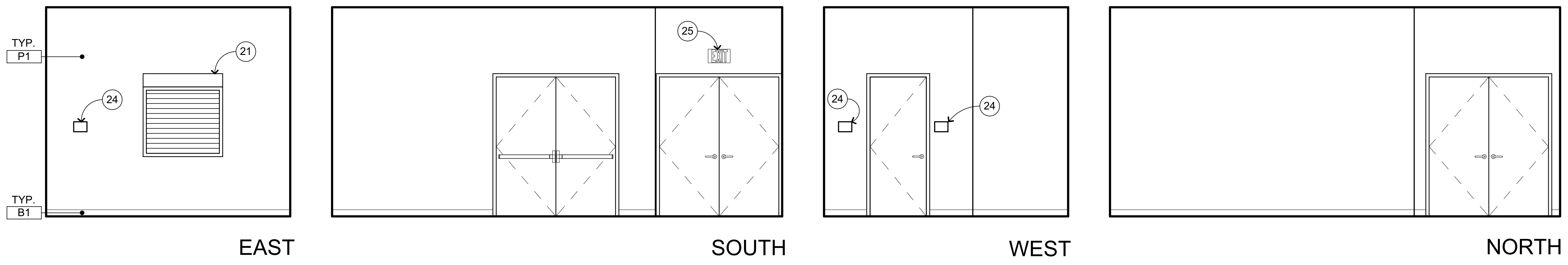
GIRLS TEAM ROOM **G13S**
1/4" = 1'-0" A-G2.1



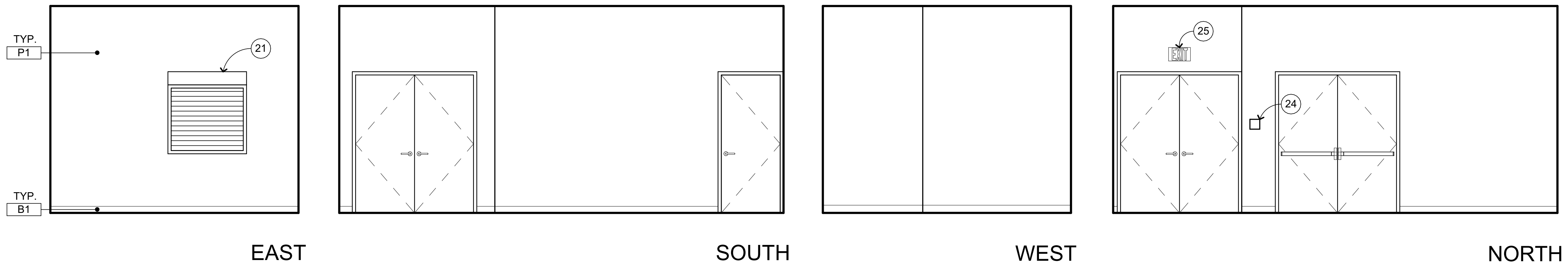
EQUIPMENT ROOM **G17N**
1/4" = 1'-0" A-G2.1



EQUIPMENT ROOM **G17S**
1/4" = 1'-0" A-G2.1



HALL **G18N**
1/4" = 1'-0" A-G2.1



HALL **G18S**
1/4" = 1'-0" A-G2.1

PLAN/INTERIOR ELEVATION KEYNOTES

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7. CASEWORK, SEE 3/A-10.2
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12. TOILET PARTITION, SEE 9/A-10.1 FOR URINAL SCREEN, SEE 14/A-10.1
13. STANDARD BI-FOLD SHOWER SEAT, SEE 5/A-10.1
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23. WALL MOUNTED FLAT PANEL MONITOR, SEE 23/A-10.1
24. SIGNAGE, SEE 27/A-10.1 AND SEE FLOOR PLAN, A-G2.1
25. (E) ELECTRICAL ITEM, S.E.D.
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FOR PAINT FINISHES SEE SEC.09 9123 (INTERIOR).
ALL GYP BD TO BE TYPE 'X'.

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FLOOR

F1	FLUID-APPLIED EPOXY FLOORING
F2	WOOD FLOORING

BASE

B1	4" RUBBER BASE
B2	FLUID-APPLIED COVE BASE
B3	VENTED COVE BASE

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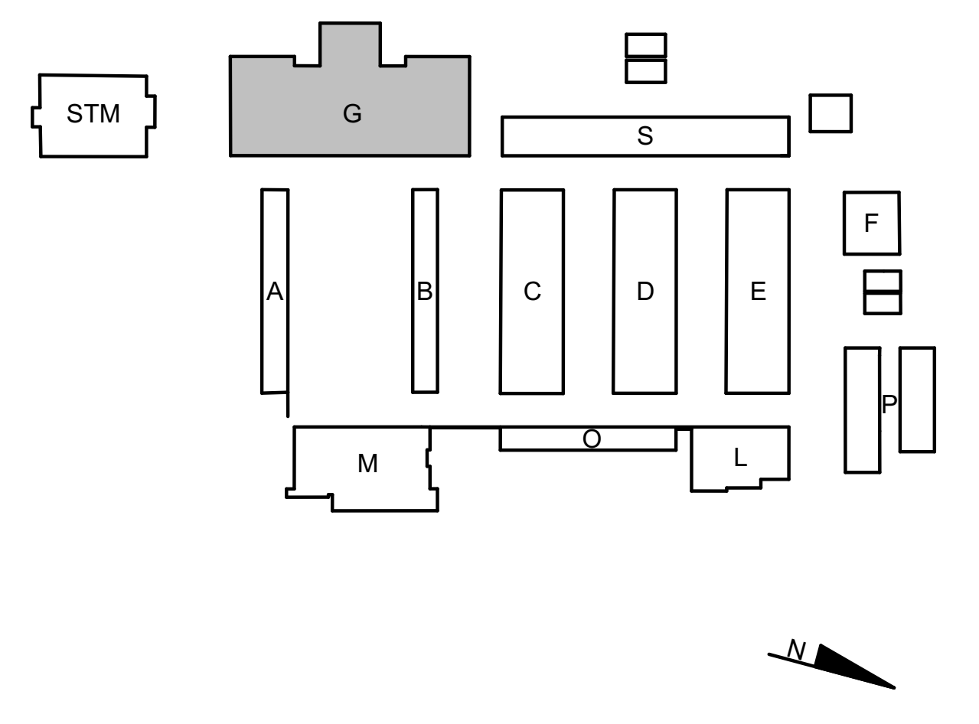

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SHEET TITLE

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SHEET NUMBER

A-G7.5

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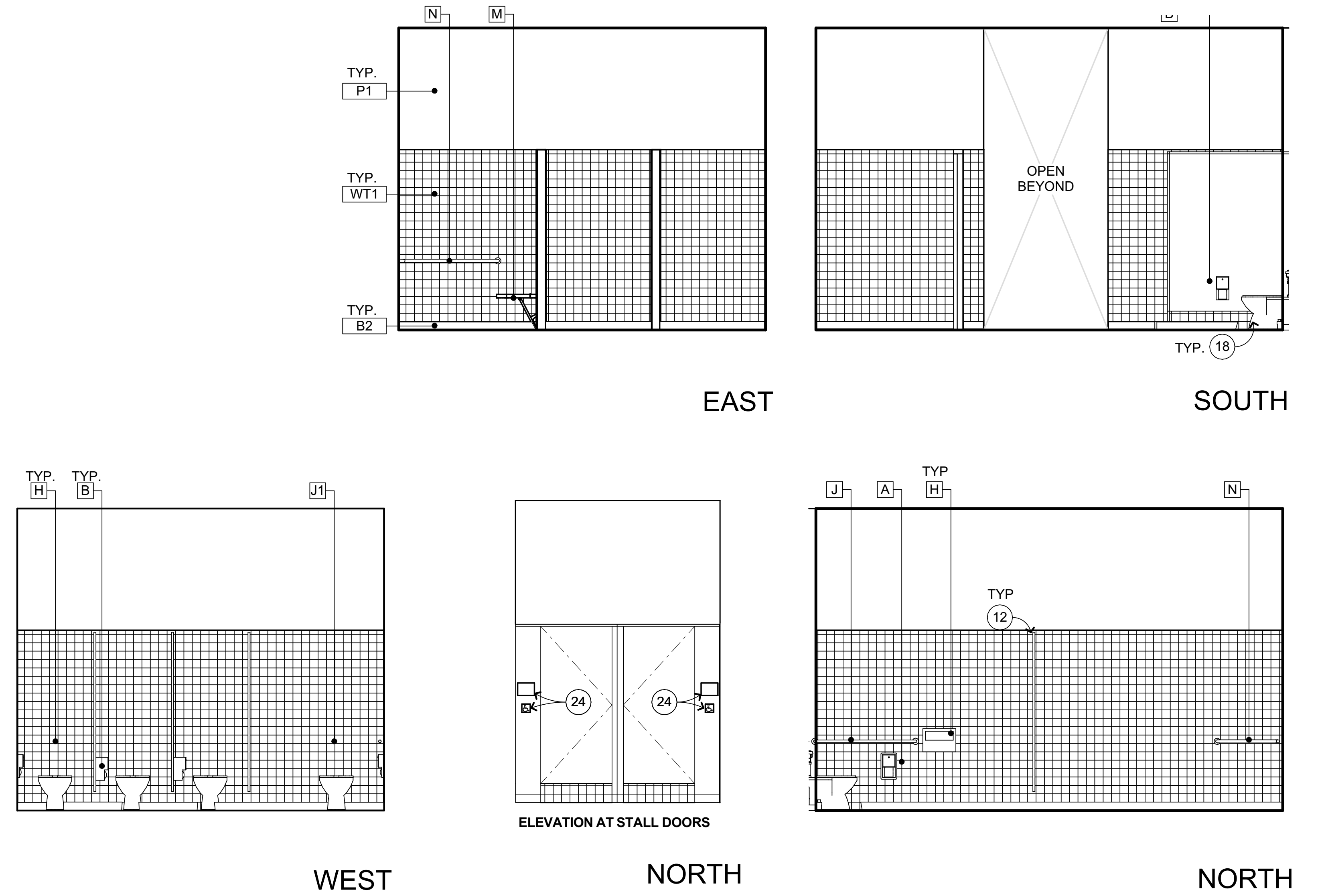
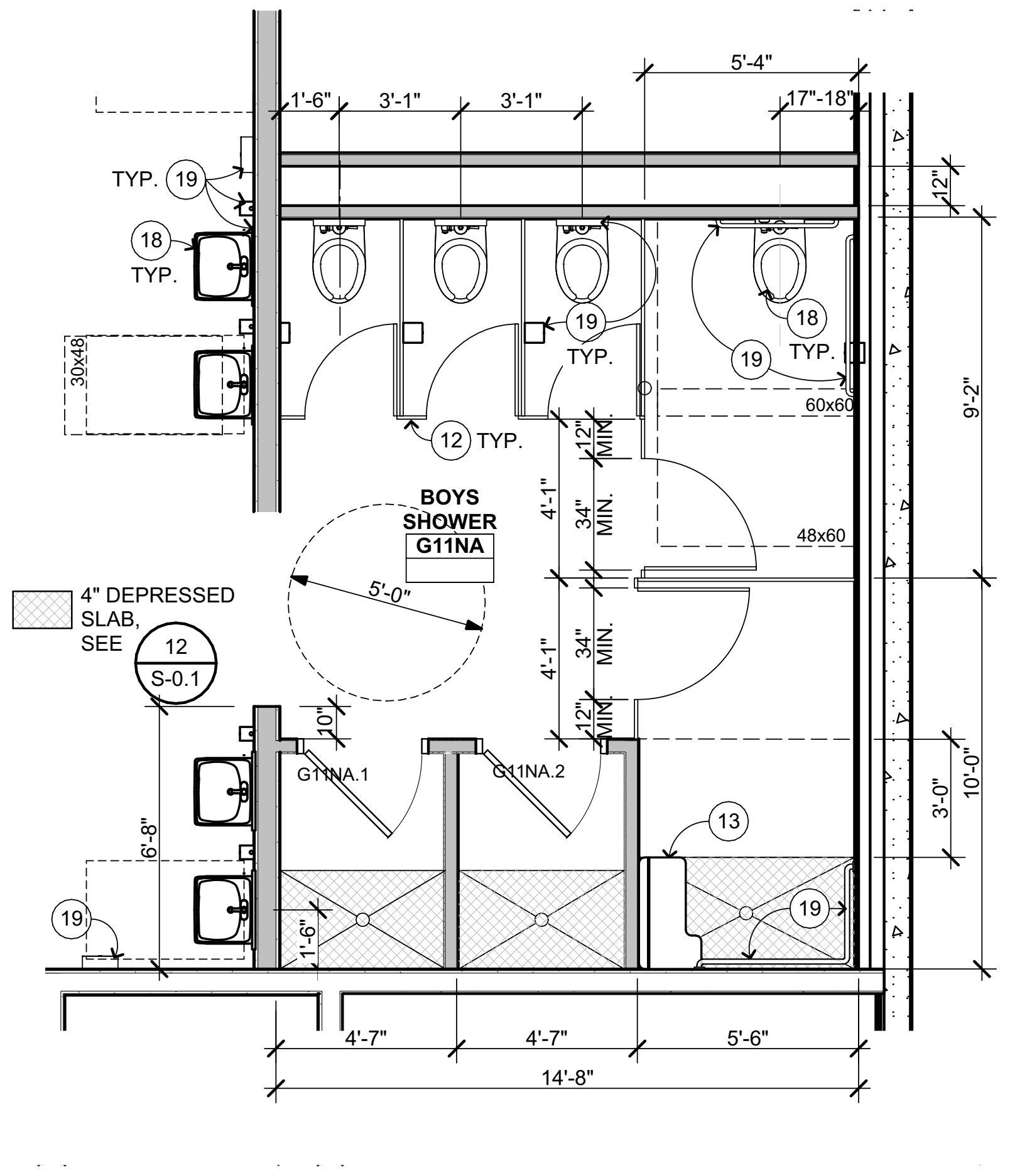
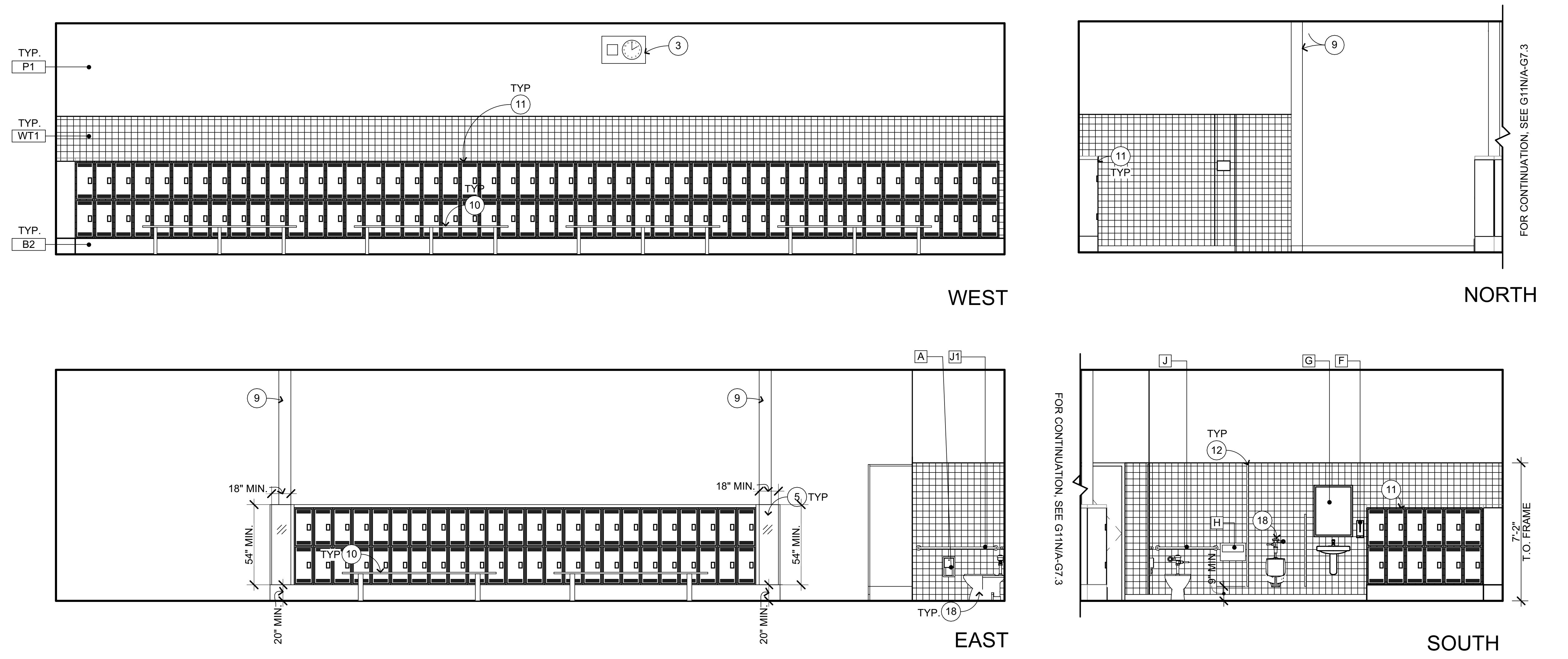


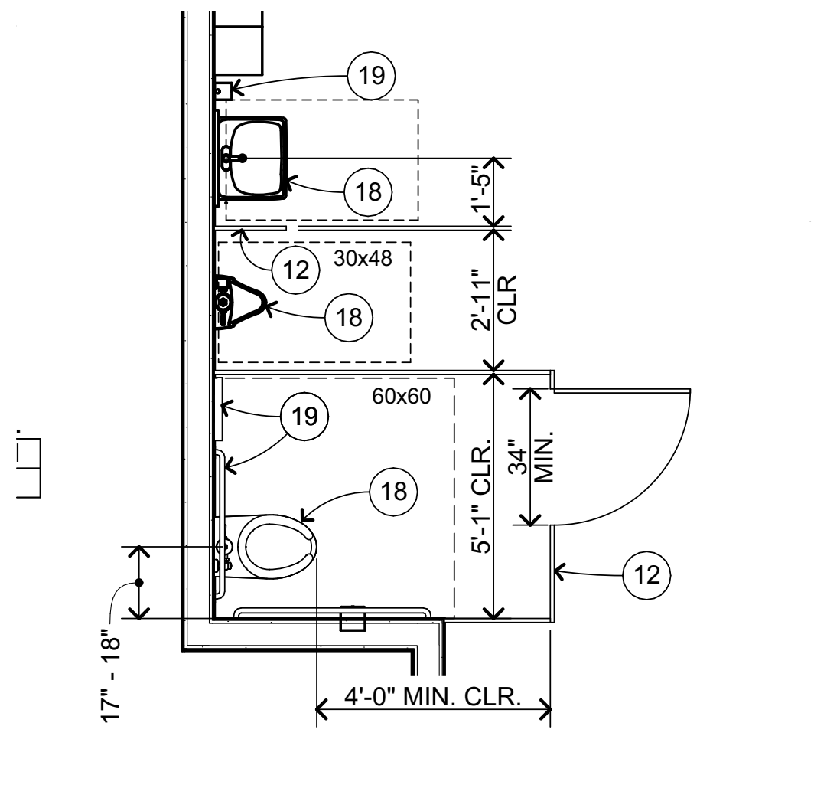
BOYS SHOWER **G11NA**
1/4" = 1'-0" A-G2.1



ENLARGED FLOOR PLAN - BOYS SHOWER ①
1/4" = 1'-0"



BOYS VARSITY LOCKER ROOM **G11NB**
1/4" = 1'-0" A-G2.1



ENLARGED FLOOR PLAN - BOYS VARSITY LOCKER ROOM TOILET ②
1/4" = 1'-0"

PLAN/INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

①	INSTALL MAGNETIC WHITEBOARD PANELS & MAGNETIC MARKER TRAY
②	PROJECTION SCREEN
③	CLOCK/SPEAKER, S.E.D.
④	CABINET-MOUNTED DISPLAY MONITOR, SEE 18/A-10.2
⑤	IMPACT RESISTANT WALL-MOUNTED MIRRORS, SEE 8/A-10.1 28/A-10.1
⑥	TEAM ROOM LOCKERS - FULL HT. FOR ATTACHMENT, SEE 3/A-10.1
⑦	CASEWORK, SEE 3/A-10.2
⑧	BOTTLE FILLER, S.P.D. AND SEE 13/A-10.1
⑨	(E) STRUCT'L COLUMN TO REMAIN.
⑩	STANDARD BENCH, 12"D x 72", 96"L. SEE 28/A-10.2 FOR ANCHORAGE
⑪	12WX24HX12D DUAL TIERED LOCKERS, SEE 3/A-10.1
⑫	TOILET PARTITION, SEE 9/A-10.1 FOR URINAL SCREEN, SEE 14/A-10.1
⑬	STANDARD BI-FOLD SHOWER SEAT, SEE 5/A-10.1
⑭	(E) HAND DRYER TO REMAIN, PROTECT IN PLACE
⑮	(NOT USED)
⑯	(NOT USED)
⑰	(E) WINDOW W/ NEW GLAZING
⑱	PLUMBING FIXTURE, S.P.D.
⑲	INSTALL TOILET ACCESSORIES, SEE SCHEDULE
⑳	INSTALL SHELF AND POLE
㉑	(E) ROLL-UP WINDOW TO REMAIN, PROTECT IN PLACE
㉒	(E) WINDOW TO REMAIN, PROTECT IN PLACE
㉓	WALL MOUNTED FLAT PANEL MONITOR, SEE 23/A-10.1
㉔	SIGNAGE, SEE 27/A-10.1 AND SEE FLOOR PLAN, A-G2.1
㉕	(E) ELECTRICAL ITEM, S.E.D.
㉖	(E) STAIR HANDRAIL TO REMAIN, PROTECT IN PLACE
㉗	ACCESSIBLE BENCH, 24"D x 48"L. SEE 25/A-10.2

INTERIOR ELEVATION GENERAL NOTES

1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
3. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE ELEMENTS AT ACCESSIBLE FIXTURES SEE 10/A-10.1
5. FLUSH VALVE HANDLES SHALL BE LOCATED AT THE WIDE SIDE OF ACCESSIBLE STALL.
6. FLOORING & BASE SHALL EXTEND UNDER ACCESSIBLE SINK/LAVATORY BASE CABINETS TO THE WALL. WATER SUPPLY AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
7. PROVIDE SOLID BLOCKING FOR CABINET, ACCESSORY, OR EQUIPMENT MOUNTING 1/A-10.1
8. FOR TYP CASEWORK DEPTH, ATTACHMENT, AND NOTES, SEE 3/A-10.2
9. THIS SHEET SHOWS CHANGES IN HEIGHT FROM THE ROOM-SPECIFIC INTERIOR ELEVATIONS WITHIN THE DRAWING SET AND IS INTENDED AS A GENERAL REFERENCE ONLY. SEE ROOM-SPECIFIC INTERIOR ELEVATIONS FOR THE FULL LAYOUT OF EACH ROOM.
10. ALL GENERAL NOTES AND KEYNOTES FROM ROOM-SPECIFIC INTERIOR ELEVATIONS STILL APPLY.
11. THE CASEWORK AND WALL PANEL HEIGHTS SHOWN ON THIS SHEET ARE INTENDED AS THE BASE BID. THE CASEWORK AND WALL PANEL HEIGHTS SHOWN ON THE INTERIOR ELEVATIONS ARE A BID ALTERNATE.

FINISH CODES

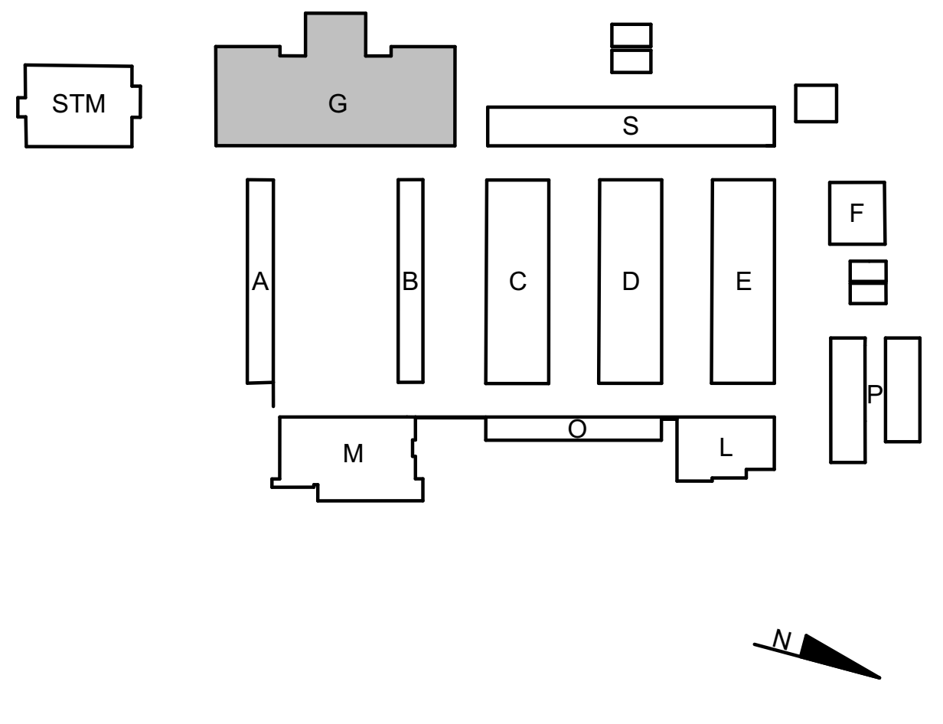
FOR OVERALL WALL AND BASE FINISHES, SEE FINISH PLAN.
FOR PAINT FINISHES SEE SEC.09 9123 (INTERIOR).
ALL GYP BD TO BE TYPE 'X'.

WALL	
P1	PAINT
WT1	CERAMIC WALL TILE
FLOOR	
F1	FLUID-APPLIED EPOXY FLOORING
F2	WOOD FLOORING
BASE	
B1	4" RUBBER BASE
B2	FLUID-APPLIED COVE BASE
B3	VENTED COVE BASE

TOILET ACCESSORY SCHEDULE

A	TOILET PAPER DISPENSER, RECESSED (3" MAXIMUM PROJECTION)
B	TOILET PAPER DISPENSER, SURFACE MOUNTED
C	PAPER TOWEL DISPENSER, SURFACE MOUNTED
F	SOAP DISPENSER, SURFACE MOUNTED
G	MIRROR (TYP), FOR ATTACHMENT SEE 8/A-10.1
H	TOILET SEAT COVER DISPENSER, SURFACE MOUNTED
J	36" GRAB BAR, FOR ATTACHMENT SEE 33/A-10.1
J1	48" GRAB BAR, FOR ATTACHMENT SEE 33/A-10.1
K	SANITARY NAPKIN DISPOSAL RECEPTACLE, SURFACE MOUNTED
M	ACCESSIBLE FOLDING SHOWER SEAT 5/A-10.1
N	ACCESSIBLE SHOWER GRAB BAR 5/A-10.1

KEY PLAN



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

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JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET 2026
4.15.2026

SHEET TITLE

BUILDING G INTERIOR ELEVATIONS

SHEET NUMBER

A-G7.6

NOTES:

1. OPERABLE PARTS OF DOOR AND GATE HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE FULLY EXPOSED AND USABLE FOR BOTH SIDES, CBC 11B-404.2.7.

2. DOOR AND GATE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM, CBC 11B-404.2.1.

3. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT IN THE OPEN POSITION OF 70 DEGREES, THE DOOR AND GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM, CBC 11B-404.2.8.2.

4. ALL HARDWARE SHALL MEET THE REQUIREMENTS 11B-309.4.

5. THRESHOLDS SHALL COMPLY WITH 11B-404.2.5.

6. FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALL PER DSA POLICY 99-08.

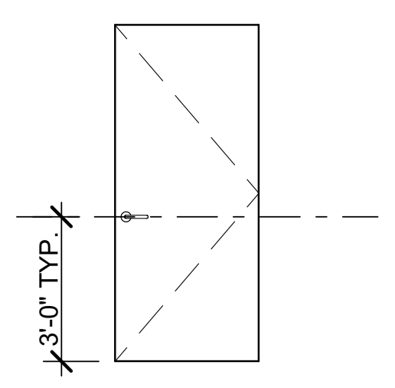
ACCESSIBLE DOORS:

1. HARDWARE COMPLIES WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
- CROSS BARS FOR EXIT DEVICES SHALL EXTEND ACROSS NOT LESS THAN HALF OF THE DOOR OR GATE WIDTH.
- ENDS OF CROSS BARS SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON CLOTHING DURING EGRESS.

DOOR SCHEDULE

ID	TYPE	DOOR			FRAME			LOUVER SIZE	LABEL	HDWR	P. H.	REMARKS
		SIZE	MAT	FIN	TYPE	MAT	FIN					
G11NA.1	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	3		SHOWER DOOR
G11NA.2	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	3		SHOWER DOOR
G11SA.1	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	3		SHOWER DOOR
G11SA.2	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	3		SHOWER DOOR
G12NA-A	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	2		STORAGE
G12NB-A	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	2		STORAGE
G12NB-B	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	2		STORAGE
G12S-A	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	2		STORAGE
G13S-A	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	1		GIRLS TEAM ROOM; HARDWARE AB 3205-COMPLIANT PER BU 19-05
G13S-B	A	3'-0" x 7'-0"	H.M.	PAINT	1	H.M.	PAINT		-	1		GIRLS TEAM ROOM; HARDWARE AB 3205-COMPLIANT PER BU 19-05
G13S-C	A	3'-0" x 7'-0"	(E)	PAINT	1	(E)	PAINT		-	4	PH	(E) DOOR, (N) HARDWARE & PAINT - GIRLS TEAM ROOM

DOOR PANEL TYPE



A

FLUSH

GLAZING GENERAL NOTES

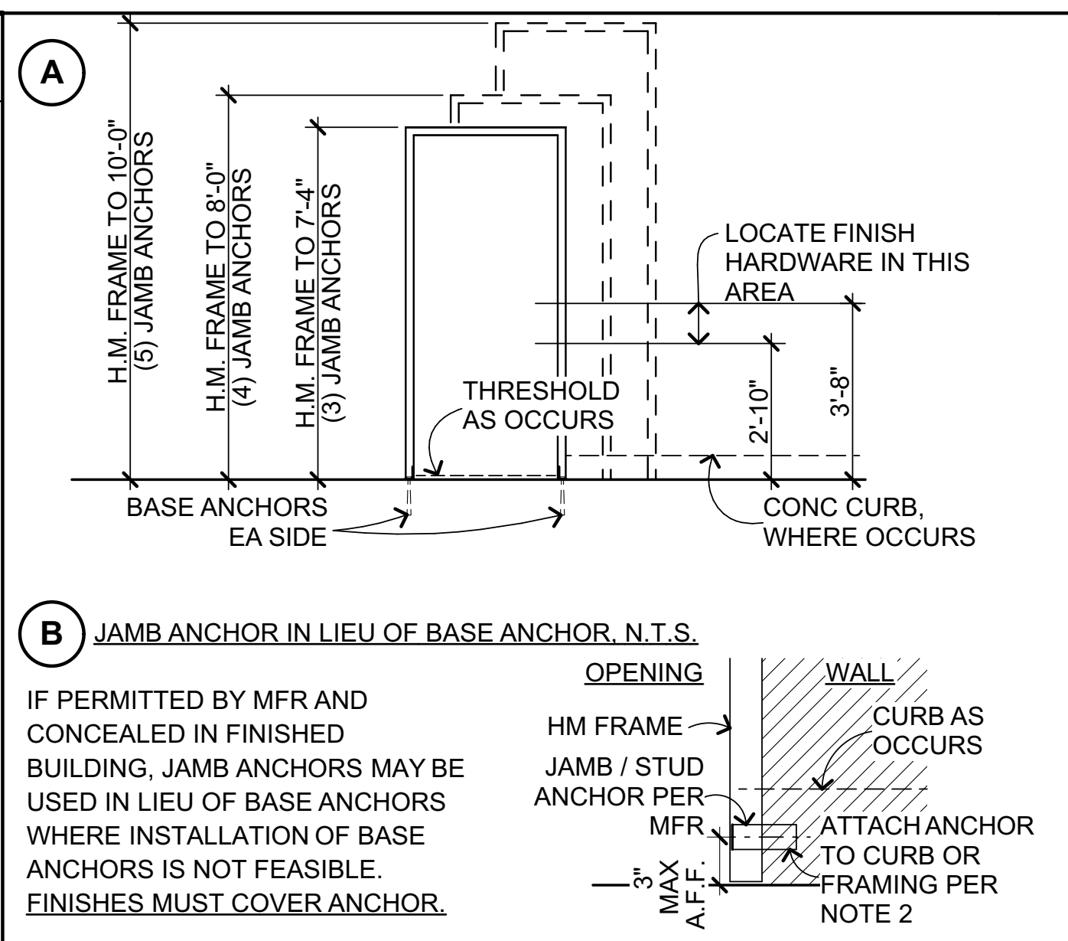
1. ALL INTERIOR GLAZING SHALL BE 1/4" CLEAR TEMPERED, U.O.N.
2. ALL EXTERIOR GLAZING SHALL BE INSULATED GLASS UNITS W/ 1/4" TEMPERED GLASS, U.O.N.
3. PROVIDE RATED GLASS AT RATED ASSEMBLIES IN ACCORDANCE WITH CBC CHAPTERS 7 AND 24.
4. FOR DETAILED DOOR AND WINDOW GLAZING INFORMATION REFER TO SPECIFICATION SECTION 08 8000.
5. PROVIDE LIMITER WHERE AWNING OR HOPPER WINDOW OPENS BELOW 80" A.F.F. ADJACENT TO A CIRCULATION AREA. 4" MAX PROJECTION.
6. GLAZING SHALL MEET THE MINIMUM FRAME LAP AND GLASS EDGE CLEARANCE PER CBC 2403.2.1. PROVIDE CONTINUOUS GLAZING RABBET AND GLASS RETAINER.
7. NFRC COMPLIANCE: COMPLETED SITE-BUILT ASSEMBLIES SHALL CONFORM TO NFRC REQUIREMENTS AND BE TESTED AND LABELED IN ACCORDANCE WITH THAT STANDARD.
8. ALL EXTERIOR WINDOW AND DOOR ASSEMBLIES MUST BE THERMALLY BROKEN.

Z101 013

DOOR GENERAL NOTES

1. ALL EXIT DOORS IN SCHOOL BUILDINGS, INCLUDING BUT NOT LIMITED TO DOORS OF TOILET ROOMS AND STORAGE ROOMS SHALL CONFORM TO CBC 1010. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, OR SPECIAL KNOWLEDGE OR EFFORT.
2. EXIT DEVICES (PANIC HARDWARE) SHALL BE INSTALLED IN CONFORMANCE WITH CBC 1010.2.9. PANIC HARDWARE IS REQUIRED FROM ROOMS AND CORRIDORS OF A OR E OCCUPANCY WHERE OCCUPANT LOAD IS 50 OR MORE PER CBC 1010.2.9
3. ALL DOORS AT E OCCUPANCY WITH AN OCCUPANT LOAD GREATER THAN 5 SHALL BE LOCKABLE FROM THE INSIDE.
4. DOORS WITH CLOSERS SHALL BE ADJUSTED TO PROVIDE MINIMUM DOOR CLOSER PERIOD OF FIVE SECONDS FROM A POSITION OF 90 DEGREES TO WITHIN 12 DEGREES OF THE DOOR LATCH, MEASURED FROM THE LEADING EDGE OF THE DOOR.
5. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS APPLIED IN THE DIRECTION OF TRAVEL. REQUIRED FIRE DOORS SHALL HAVE A MAXIMUM OPERATING EFFORT NOT TO EXCEED 15 POUNDS. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.
6. SEE GLAZING NOTES ON WINDOW SCHEDULE SHEET FOR ADDITIONAL DOOR AND WINDOW NOTES.
7. SEE ARCHITECTURAL FLOOR PLAN DRAWINGS FOR SIGNS ON DOORS AND SIGNS RELATED TO ENTRANCE AND EXIT. REFER TO SITE PLAN FOR SITE SIGNAGE.

Z101 005



B JAMB ANCHOR IN LIEU OF BASE ANCHOR, N.T.S.

IF PERMITTED BY MFR AND CONCEALED IN FINISHED BUILDING, JAMB ANCHORS MAY BE USED IN LIEU OF BASE ANCHORS WHERE INSTALLATION OF BASE ANCHORS IS NOT FEASIBLE. FINISHES MUST COVER ANCHOR.

NOTES:

1. PROVIDE DOOR FRAME ANCHORAGE AS FOLLOWS:
   - A. PROVIDE A MINIMUM OF (3) FRAME ANCHORS AT EA JAMB OF DOOR FRAMES AT 24" O.C. MAX WITHIN 18" OF TOP AND BOTTOM. JAMB ANCHORS TO BE SPACED EQUALLY.
   - B. PROVIDE BASE ANCHORS AT EA SIDE IN ADDITION TO JAMB ANCHORS SHOWN ON DIAGRAM A. SEE DIAGRAM B FOR CONDITIONS WHERE INSTALLATION OF BASE ANCHOR IS NOT FEASIBLE.
   - C. AT FRAMES WIDER THAN 60", PROVIDE HEAD ANCHOR IN CENTER OF FRAME PER MFR RECOMMENDATIONS.
2. ATTACH JAMB / HEAD ANCHORS PER THE FOLLOWING, (2) FASTENERS PER ANCHOR: WOOD FRAMING: #8 F.H.W.S.,1 1/2" MINIMUM PENETRATION.
3. ATTACH BASE ANCHORS TO CONC SLAB WITH 3/8" DIA x 2-1/2" NOMINAL EMBED, HILTI KWIKBOLT TZ2, ICC ESR 4266. ALTERNATE FASTENER: 3/8" DIA X 2-1/2 HILTI KB1, IAPMO-ER678 (2) PER ANCHOR, 3" MIN APART, 30 FT-LB INSTALLATION TORQUE
4. IF PERMITTED BY MFR AND CONCEALED BY ACCESSIBILITY-COMPLIANT THRESHOLD, BASE ANCHOR MAY BE INSTALLED W/ HORIZONTAL LEG EXTENDED INTO OPENING.
5. ALL ANCHORS AND ASSOCIATED FASTENERS MUST BE CONCEALED.

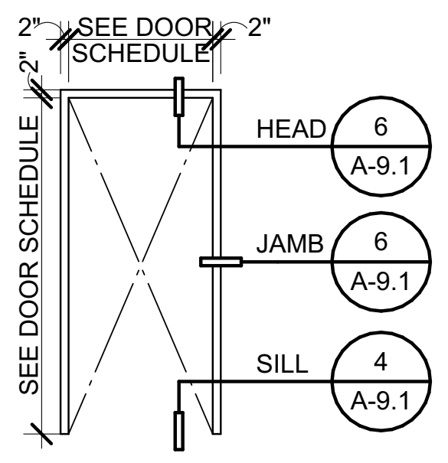
HM FRAME ANCHORAGE

1/4" = 1'-0" B203 106 7

DOOR FRAME TYPES - HOLLOW METAL

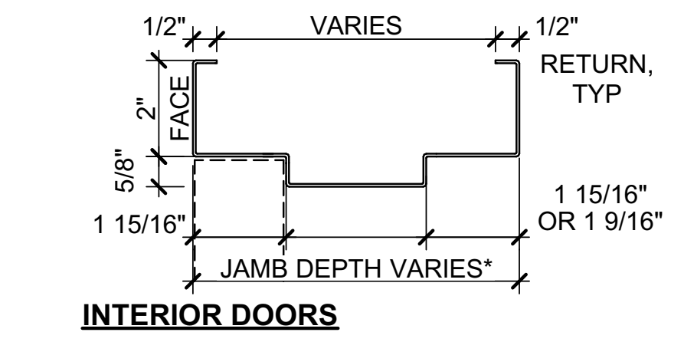
DOOR FRAMES SHOWN FROM THE EXTERIOR U.O.N.
JAMB DEPTH TO BE VERIFIED BY THE CONTRACTOR

DETAILS TYP OF ALL HOLLOW METAL FRAMES U.O.N.



1

HOLLOW METAL FRAME

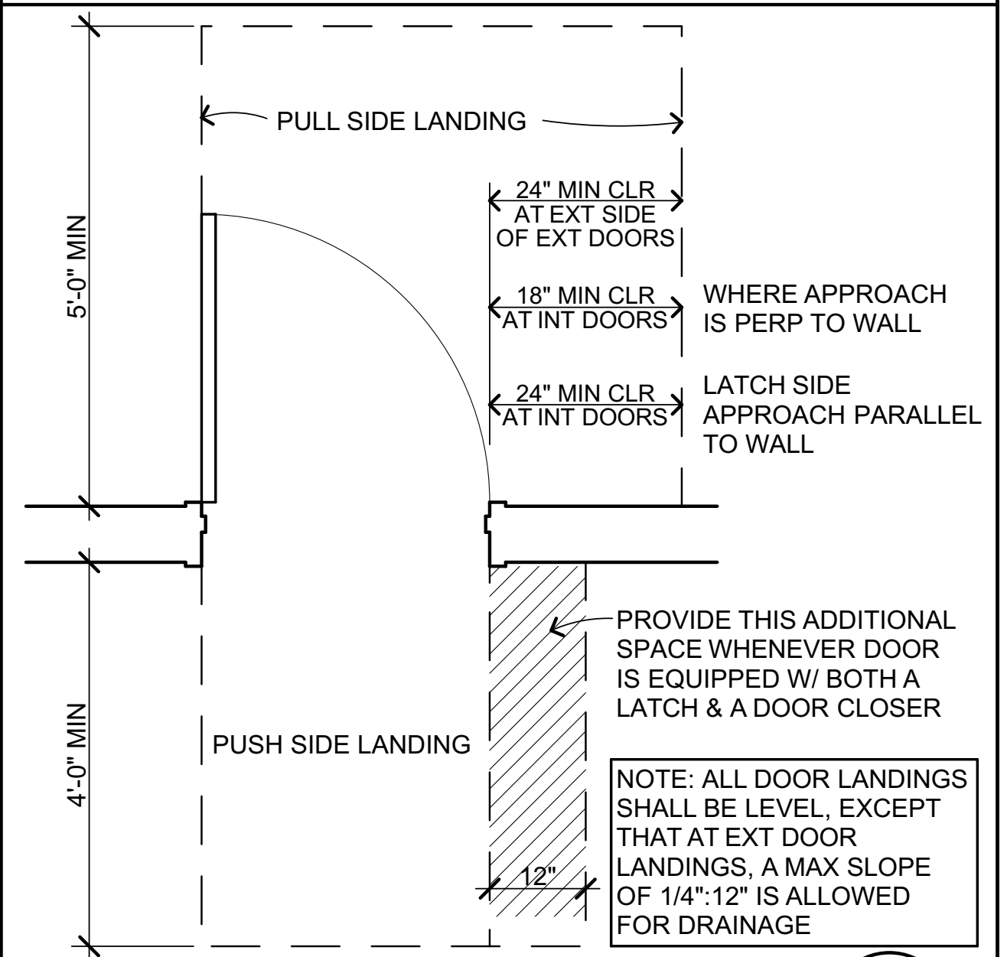


INTERIOR DOORS

***JAMB DEPTH SHALL BE VERIFIED BY THE CONTRACTOR**

HM DOOR FRAME PROFILE

3" = 1'-0" B203 108 8


PULL SIDE LANDING
24" MIN CLR AT EXT SIDE OF EXT DOORS
18" MIN CLR AT INT DOORS
WHERE APPROACH IS PERP TO WALL
24" MIN CLR AT INT DOORS
LATCH SIDE APPROACH PARALLEL TO WALL
5'-0" MIN
4'-0" MIN
PUSH SIDE LANDING
PROVIDE THIS ADDITIONAL SPACE WHENEVER DOOR IS EQUIPPED W/ BOTH A LATCH & A DOOR CLOSER
12"

NOTE: ALL DOOR LANDINGS SHALL BE LEVEL, EXCEPT THAT AT EXT DOOR LANDINGS, A MAX SLOPE OF 1/4":12" IS ALLOWED FOR DRAINAGE

ACC. DOOR LANDINGS

1/2" = 1'-0" B203 301 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
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DATE: 6/24/2025

QUATTROCCHI KWOK
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JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: AUGUST 25, 2020

**TENNYSON
HIGH SCHOOL**

**BUILDING G
MODERNIZATION**

27035 WHITMAN ST
HAYWARD , CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

BID SET 2026
4.15.2026

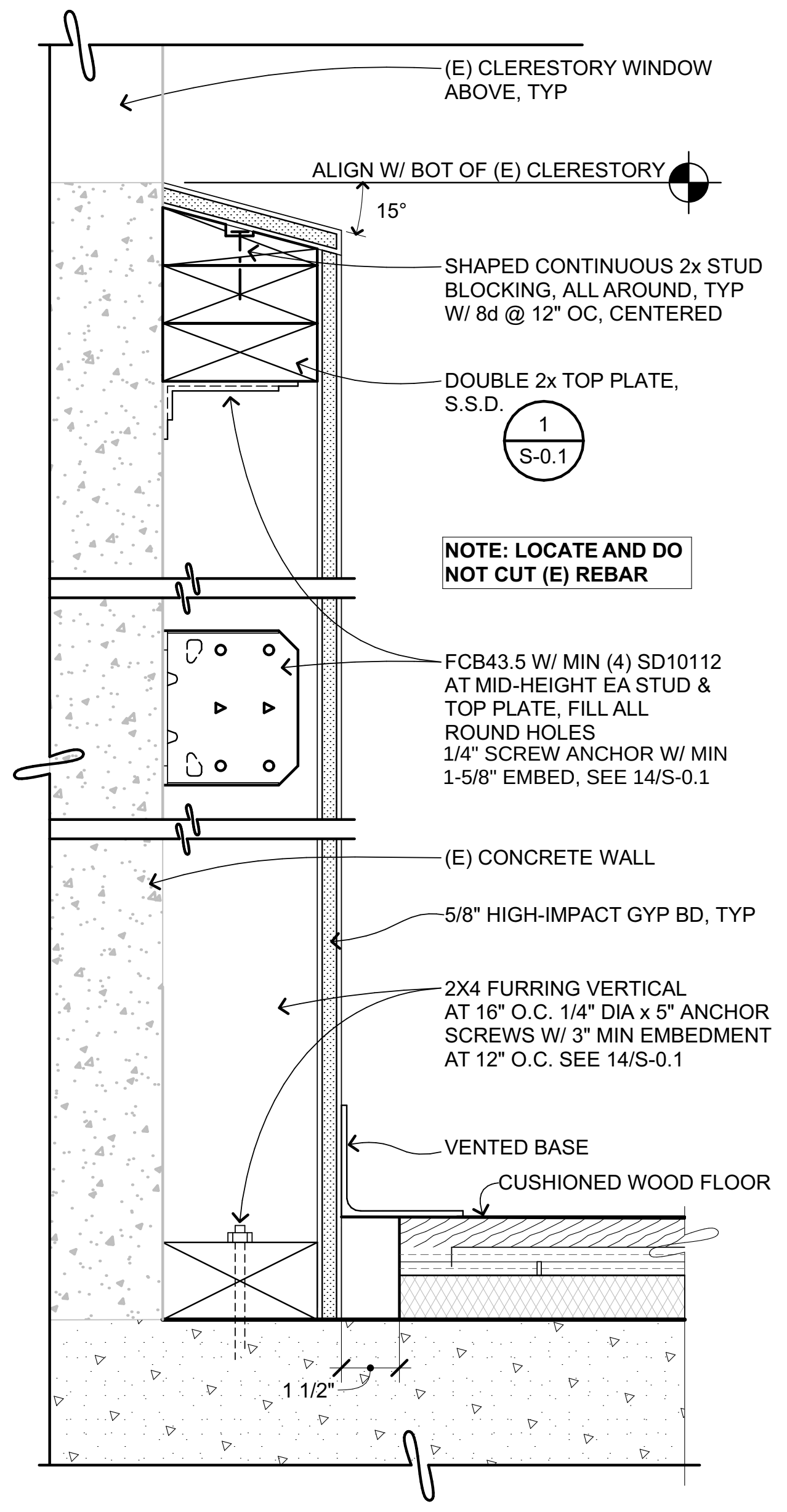
SHEET TITLE

DOOR SCHEDULE

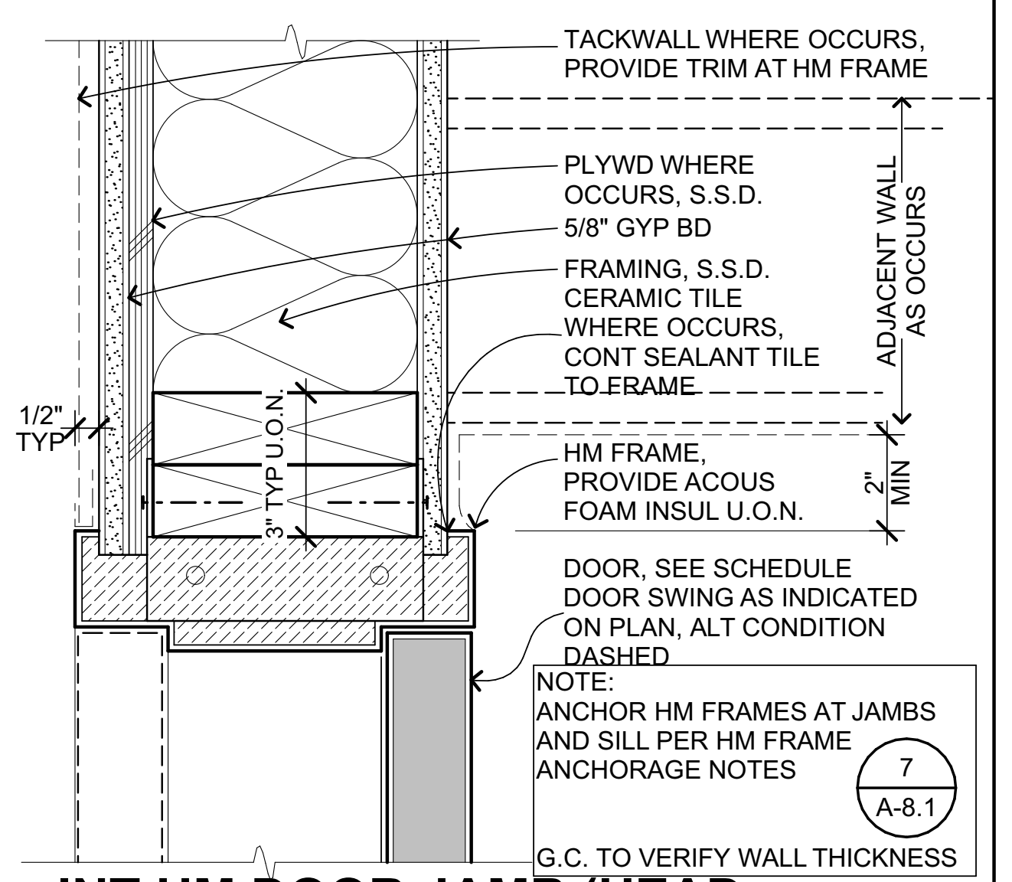
SHEET NUMBER

A-8.1

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/11/2025;12:07 PM


(E) CLERESTORY WINDOW ABOVE, TYP
ALIGN W/ BOT OF (E) CLERESTORY
15°
SHAPED CONTINUOUS 2x STUD BLOCKING, ALL AROUND, TYP W/ 8d @ 12" OC, CENTERED
DOUBLE 2x TOP PLATE, S.S.D.
1 / S-0.1
NOTE: LOCATE AND DO NOT CUT (E) REBAR
FCB43.5 W/ MIN (4) SD10112 AT MID-HEIGHT EA STUD & TOP PLATE, FILL ALL ROUND HOLES 1/4" SCREW ANCHOR W/ MIN 1-5/8" EMBED, SEE 14/S-0.1
(E) CONCRETE WALL
5/8" HIGH-IMPACT GYP BD, TYP
2X4 FURRING VERTICAL AT 16" O.C. 1/4" DIA x 5" ANCHOR SCREWS W/ 3" MIN EMBEDMENT AT 12" O.C. SEE 14/S-0.1
VENTED BASE
CUSHIONED WOOD FLOOR
1 1/2"

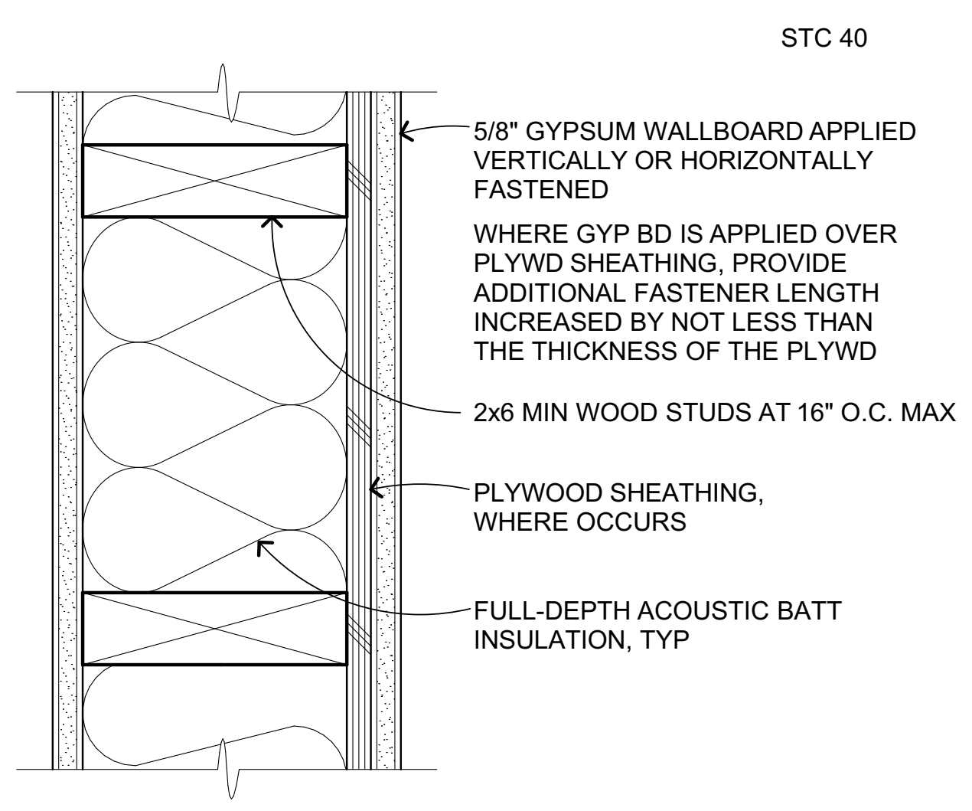
FURRED WALL AT CONC WALL 17
3" = 1'-0" 1910


TACKWALL WHERE OCCURS, PROVIDE TRIM AT HM FRAME
PLYWD WHERE OCCURS, S.S.D.
5/8" GYP BD
FRAMING, S.S.D.
CERAMIC TILE WHERE OCCURS, CONT SEALANT TILE TO FRAME
ADJACENT WALL AS OCCURS
1/2" TYP
3" TYP U.O.N.
2" MIN
HM FRAME, PROVIDE ACOUS FOAM INSUL U.O.N.
DOOR, SEE SCHEDULE DOOR SWING AS INDICATED ON PLAN, ALT CONDITION DASHED

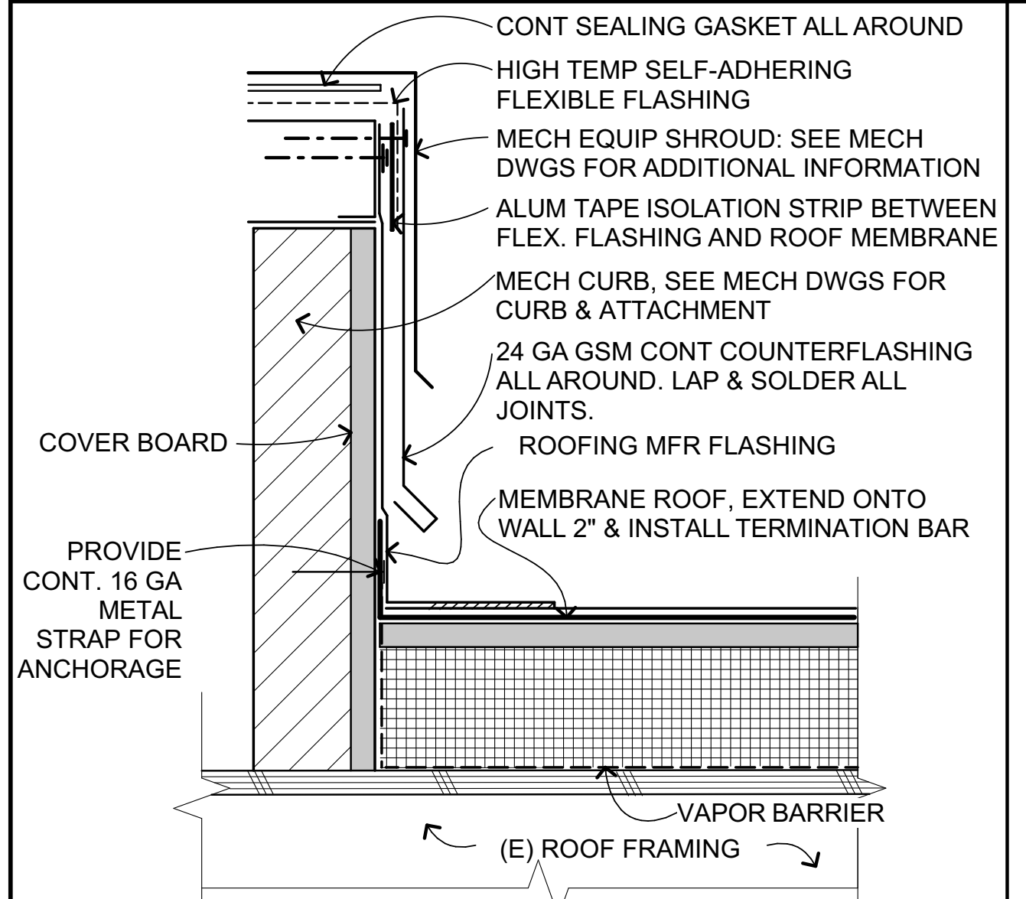
NOTE:
ANCHOR HM FRAMES AT JAMBS AND SILL PER HM FRAME ANCHORAGE NOTES 7 / A-8.1

G.C. TO VERIFY WALL THICKNESS

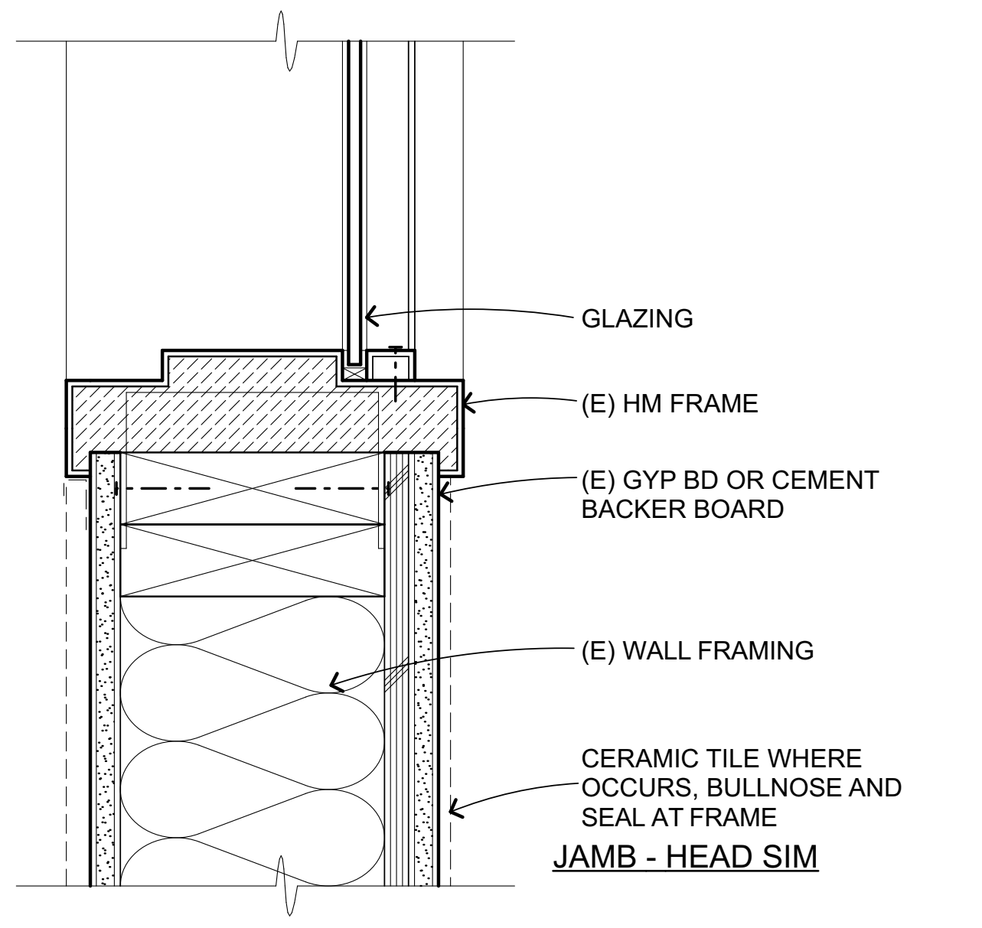
INT HM DOOR JAMB (HEAD SIM.) 6
3" = 1'-0" C102 WD501


STC 40
5/8" GYPSUM WALLBOARD APPLIED VERTICALLY OR HORIZONTALLY FASTENED
WHERE GYP BD IS APPLIED OVER PLYWD SHEATHING, PROVIDE ADDITIONAL FASTENER LENGTH INCREASED BY NOT LESS THAN THE THICKNESS OF THE PLYWD
2x6 MIN WOOD STUDS AT 16" O.C. MAX
PLYWOOD SHEATHING, WHERE OCCURS
FULL-DEPTH ACOUSTIC BATT INSULATION, TYP

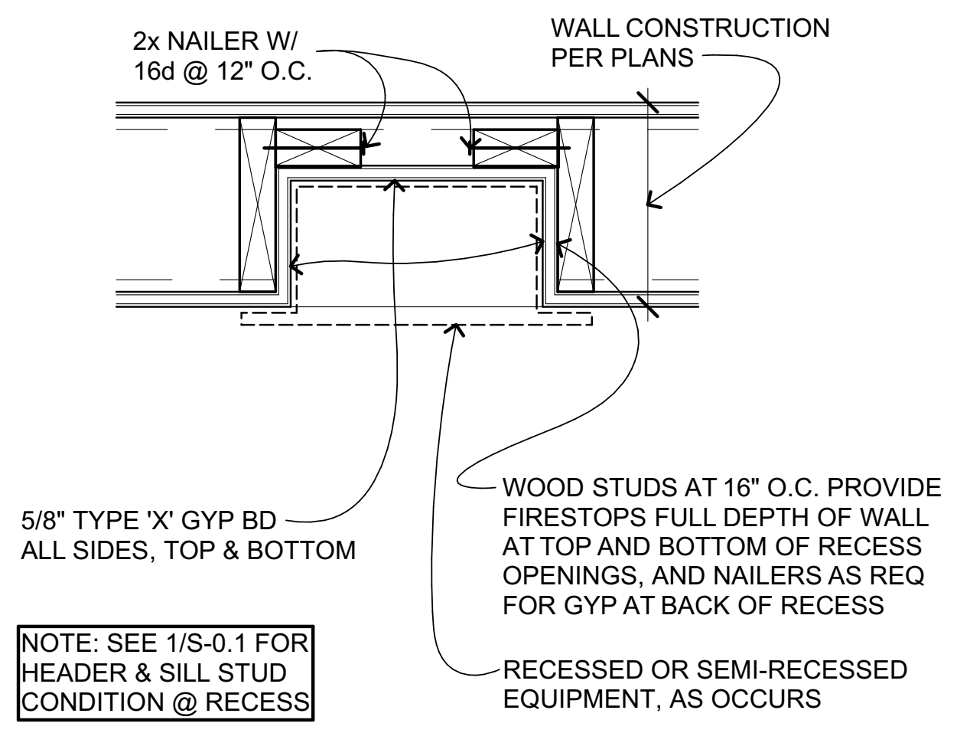
TYP INT NON-RATED WALL 1
3" = 1'-0" C101105


CONT SEALING GASKET ALL AROUND
HIGH TEMP SELF-ADHERING FLEXIBLE FLASHING
MECH EQUIP SHROUD: SEE MECH DWGS FOR ADDITIONAL INFORMATION
ALUM TAPE ISOLATION STRIP BETWEEN FLEX. FLASHING AND ROOF MEMBRANE
MECH CURB, SEE MECH DWGS FOR CURB & ATTACHMENT
24 GA GSM CONT COUNTERFLASHING ALL AROUND. LAP & SOLDER ALL JOINTS.
ROOFING MFR FLASHING
MEMBRANE ROOF, EXTEND ONTO WALL 2" & INSTALL TERMINATION BAR
COVER BOARD
PROVIDE CONT. 16 GA METAL STRAP FOR ANCHORAGE
VAPOR BARRIER
(E) ROOF FRAMING

MEMBRANE ROOF AT CURB 12
3" = 1'-0" B301 SPM 609

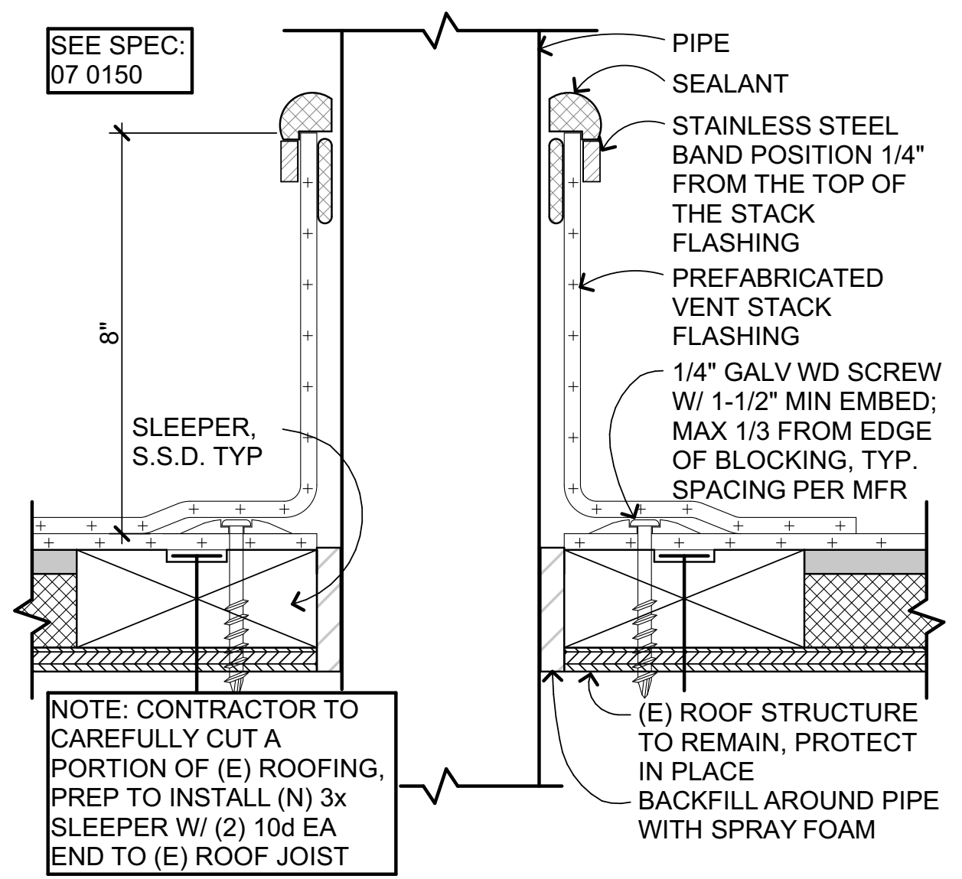

GLAZING
(E) HM FRAME
(E) GYP BD OR CEMENT BACKER BOARD
(E) WALL FRAMING
CERAMIC TILE WHERE OCCURS, BULLNOSE AND SEAL AT FRAME
JAMB - HEAD SIM

INT HM WINDOW SILL 7
3" = 1'-0" C102 WD301


2x NAILER W/ 16d @ 12" O.C.
WALL CONSTRUCTION PER PLANS
5/8" TYPE 'X' GYP BD ALL SIDES, TOP & BOTTOM
WOOD STUDS AT 16" O.C. PROVIDE FIRESTOPS FULL DEPTH OF WALL AT TOP AND BOTTOM OF RECESS OPENINGS, AND NAILERS AS REQ FOR GYP AT BACK OF RECESS
RECESSED OR SEMI-RECESSED EQUIPMENT, AS OCCURS

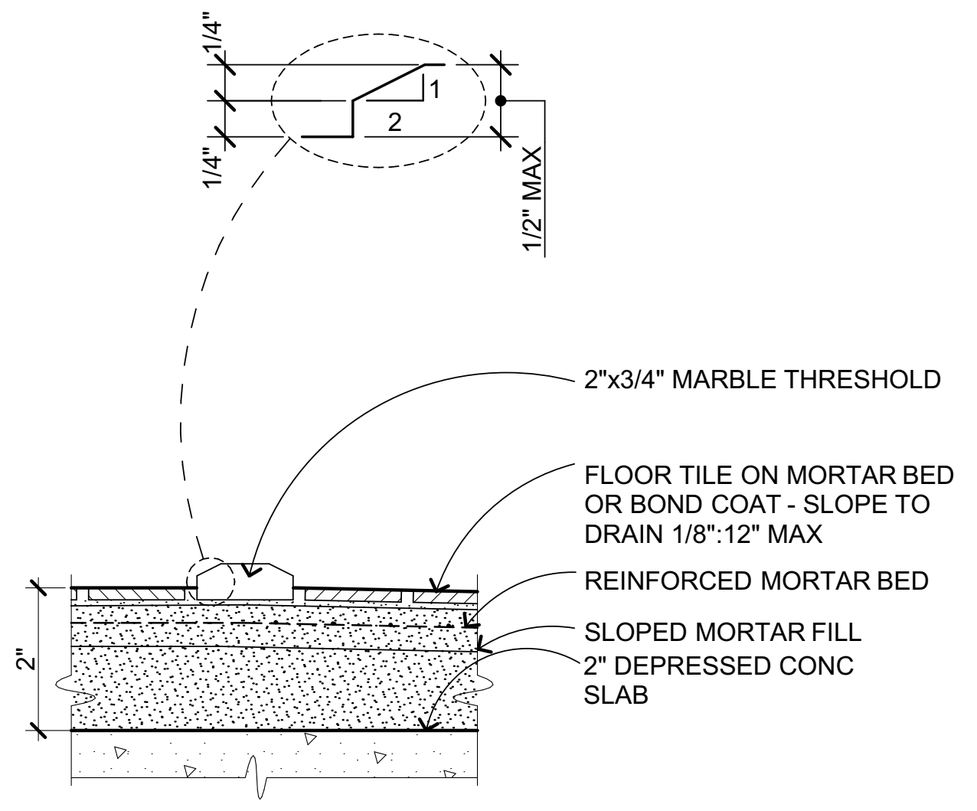
NOTE: SEE 1/S-0.1 FOR HEADER & SILL STUD CONDITION @ RECESS

RECESS AT RATED WALL - WD FRMG 2
1 1/2"= 1'-0" C101 1HR WD 130


SEE SPEC: 07 0150
PIPE
SEALANT
STAINLESS STEEL BAND POSITION 1/4" FROM THE TOP OF THE STACK FLASHING
PREFABRICATED VENT STACK FLASHING
1/4" GALV WD SCREW W/ 1-1/2" MIN EMBED; MAX 1/3 FROM EDGE OF BLOCKING, TYP. SPACING PER MFR
8"
SLEEPER, S.S.D. TYP
(E) ROOF STRUCTURE TO REMAIN, PROTECT IN PLACE
BACKFILL AROUND PIPE WITH SPRAY FOAM

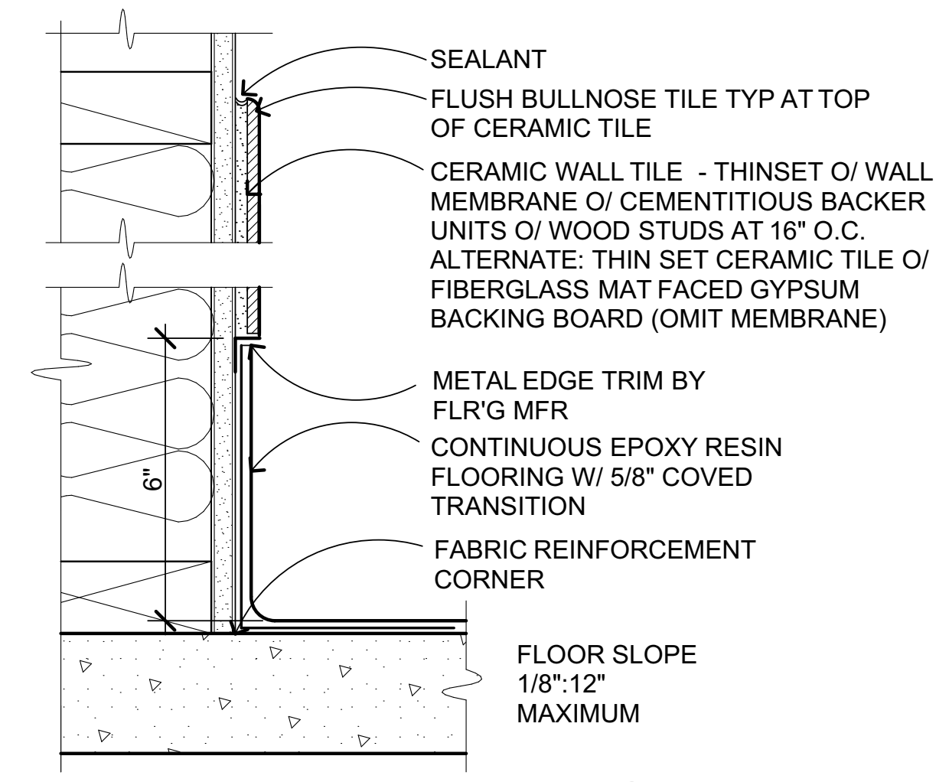
NOTE: CONTRACTOR TO CAREFULLY CUT A PORTION OF (E) ROOFING, PREP TO INSTALL (N) 3x SLEEPER W/ (2) 10d EA END TO (E) ROOF JOIST

PIPE FLASHING 13
6" = 1'-0" B301 SPM 607

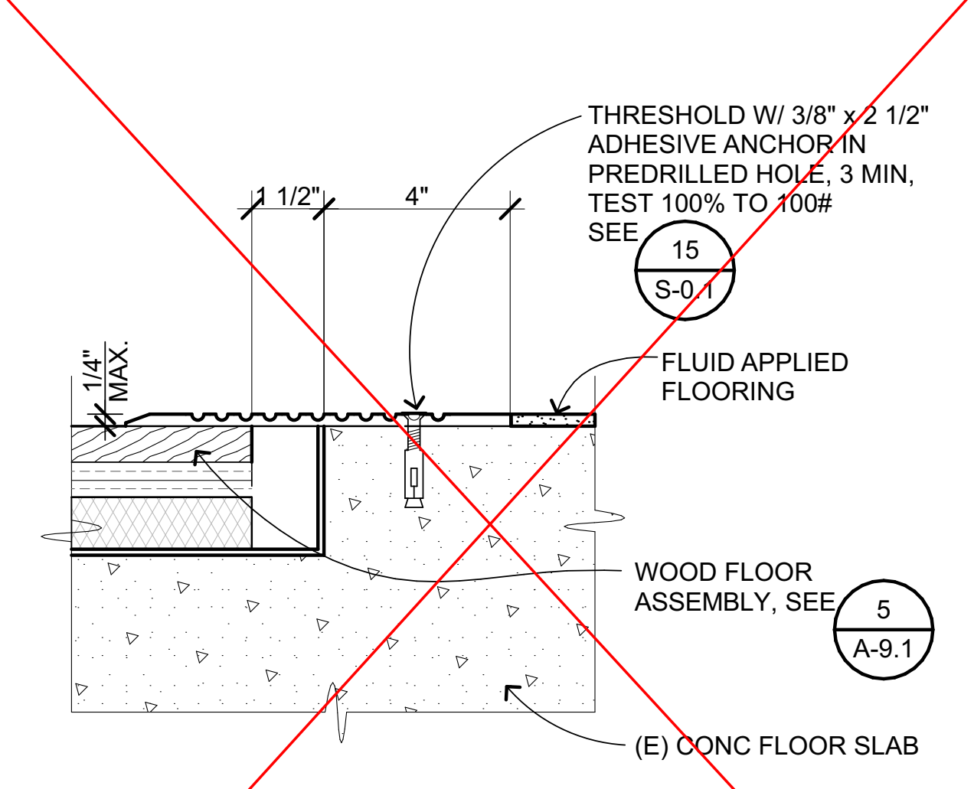


SHOWER THRESHOLD 8
3" = 1'-0" C102621

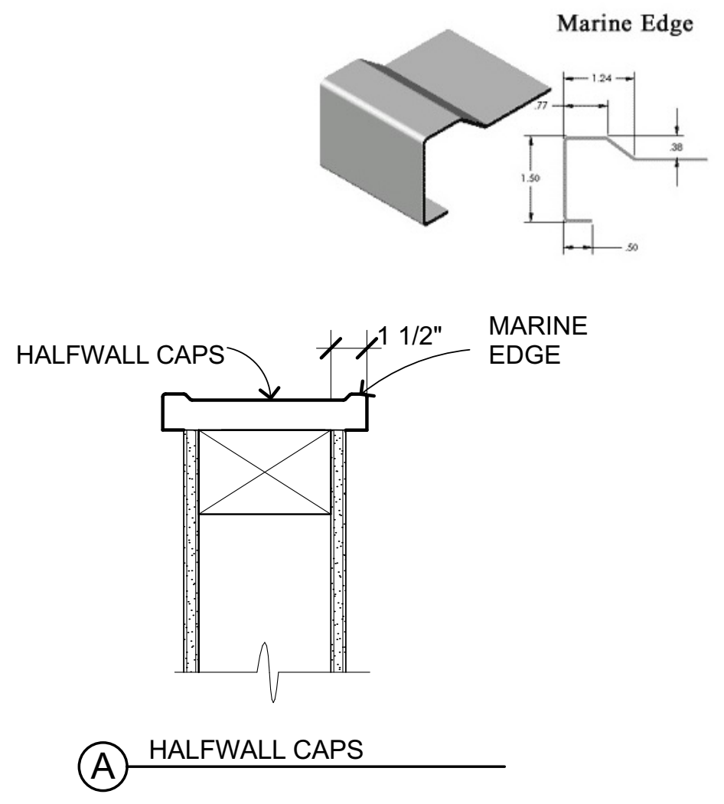
DSA IR23-3
APPROVED ALTERNATIVE FOR TOILET ROOM CURB


SEALANT
FLUSH BULLNOSE TILE TYP AT TOP OF CERAMIC TILE
CERAMIC WALL TILE - THINSET O/ WALL MEMBRANE O/ CEMENTITIOUS BACKER UNITS O/ WOOD STUDS AT 16" O.C. ALTERNATE: THIN SET CERAMIC TILE O/ FIBERGLASS MAT FACED GYPSUM BACKING BOARD (OMIT MEMBRANE)
METAL EDGE TRIM BY FLR'G MFR
CONTINUOUS EPOXY RESIN FLOORING W/ 5/8" COVED TRANSITION
FABRIC REINFORCEMENT CORNER
6"
FLOOR SLOPE 1/8":12" MAXIMUM

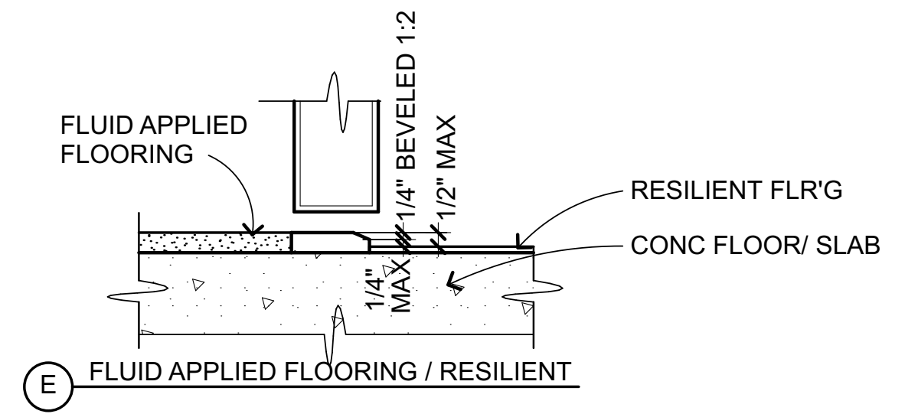
ALT FLUID APPLIED BASE - NO CURB 3
3" = 1'-0" C201 WT30.3


THRESHOLD W/ 3/8" x 2 1/2" ADHESIVE ANCHOR IN PREDRILLED HOLE, 3 MIN, TEST 100% TO 100# SEE 15 / S-0.1
1 1/2"
4"
1/4" MAX.
FLUID APPLIED FLOORING
WOOD FLOOR ASSEMBLY, SEE 5 / A-9.1
(E) CONC FLOOR SLAB

INT TRANSITION AT WD FLR 14
3" = 1'-0" C106 GYM203

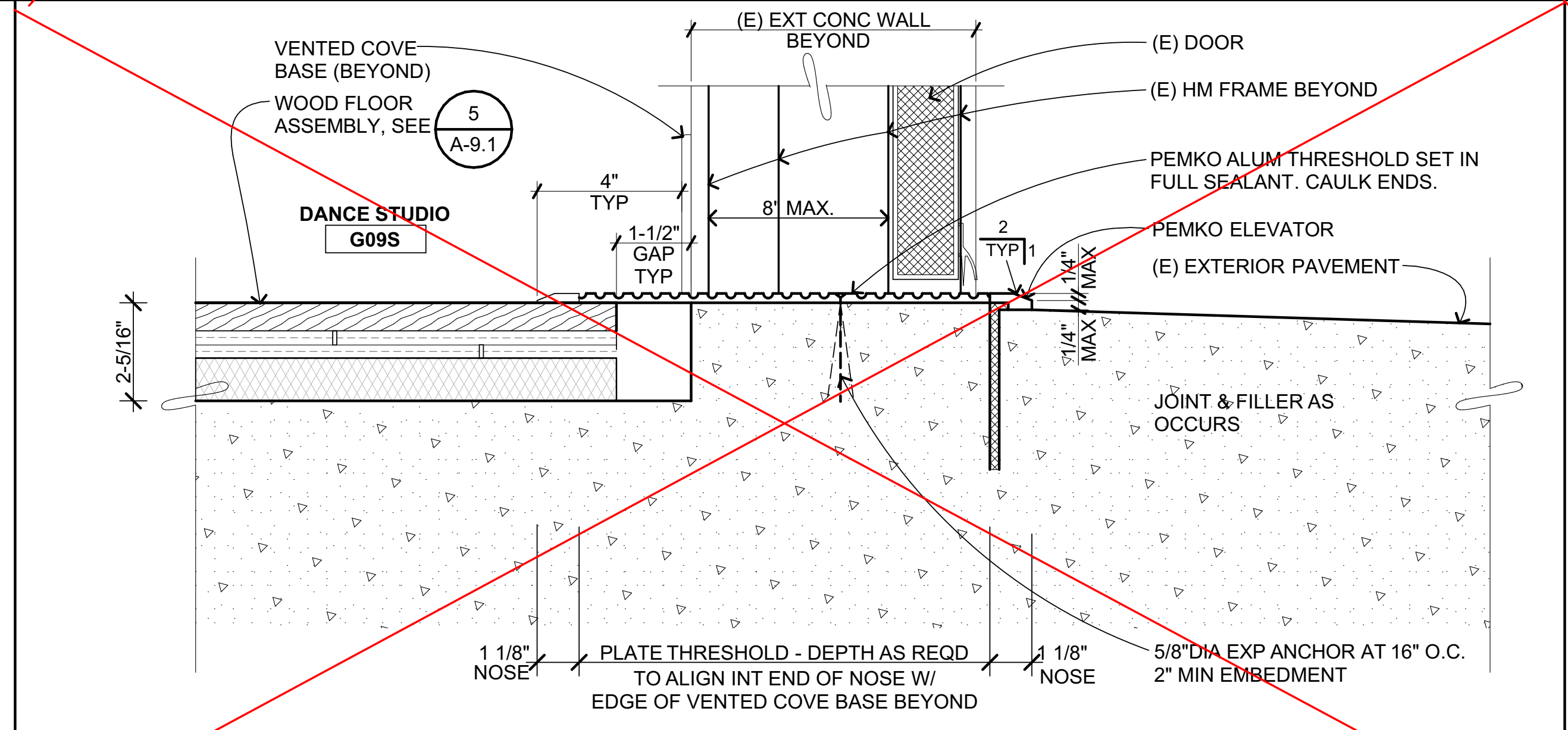


HALF WALL CAP 9
1 1/2"= 1'-0" 1910 C02

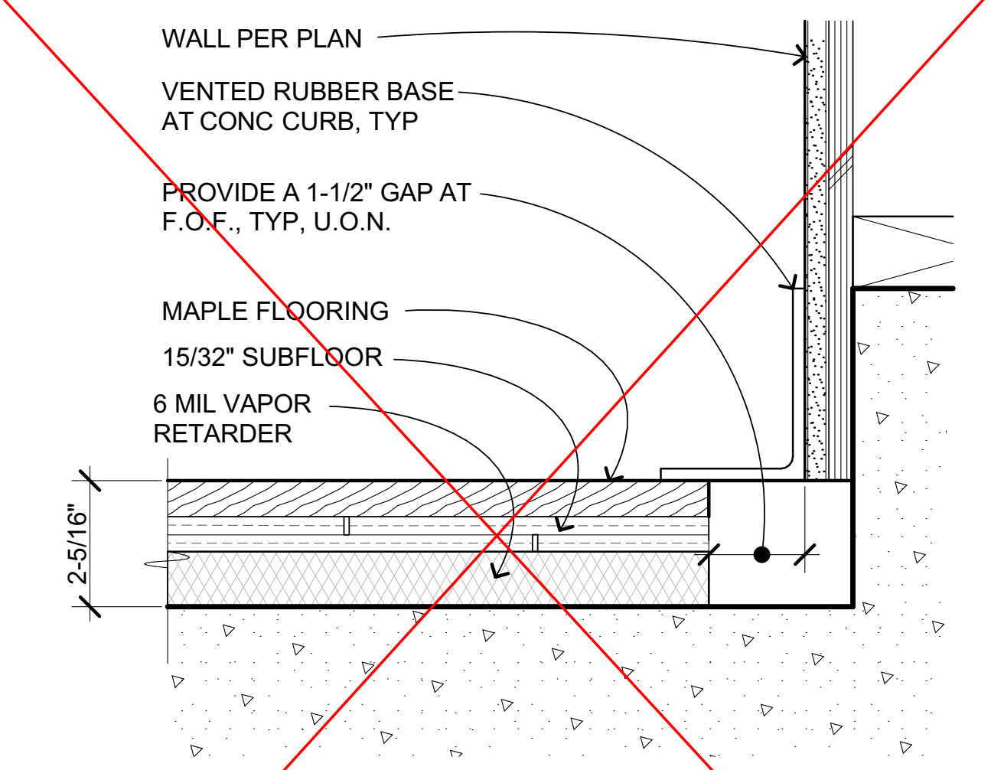


NOTES:
1. RESILIENT FLOORING IS TILE OR SHEET MATERIAL AS NOTED OR SPECIFIED ELSEWHERE.
2. WHERE TRANSITION STRIP OR REDUCER IS >1/4" HT, IT SHALL BE BEVELED 1:2 MAX OR EQUIVALENT
3. DOOR AS OCCURS, TYP.

FLOOR TRANSITIONS/SILLS 4
3" = 1'-0" C102601


(E) EXT CONC WALL BEYOND
VENTED COVE BASE (BEYOND)
WOOD FLOOR ASSEMBLY, SEE 5 / A-9.1
DANCE STUDIO
G09S
4" TYP
1-1/2" GAP TYP
8' MAX.
(E) DOOR
(E) HM FRAME BEYOND
PEMKO ALUM THRESHOLD SET IN FULL SEALANT. CAULK ENDS.
PEMKO ELEVATOR
(E) EXTERIOR PAVEMENT
2 TYP 1
1/4" MAX
1/4" MAX
2-5/16"
JOINT & FILLER AS OCCURS
1 1/8" NOSE
PLATE THRESHOLD - DEPTH AS REQD TO ALIGN INT END OF NOSE W/ EDGE OF VENTED COVE BASE BEYOND
1 1/8" NOSE
5/8"DIA EXP ANCHOR AT 16" O.C. 2" MIN EMBEDMENT

EXT THRESHOLD AT WOOD FLOOR 10
3" = 1'-0"


WALL PER PLAN
VENTED RUBBER BASE AT CONC CURB, TYP
PROVIDE A 1-1/2" GAP AT F.O.F., TYP, U.O.N.
MAPLE FLOORING
15/32" SUBFLOOR
6 MIL VAPOR RETARDER
2-5/16"

NO FIRE BLOCKING REQ. CBC 708.2.1.6 EXCEPTION 1

CUSHIONED WOOD FLR ASSEMBLY @ DANCE STUDIO 5
3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK
ARCHITECTS
Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
SIGNED: AUGUST 25, 2020

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD , CA 94544

HAYWARD UNIFIED SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET 2026
4.15.2026

SHEET TITLE
DETAILS

SHEET NUMBER
A-9.1

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G-6/11/2025 3:31 PM

MINIMUM CBC REQUIREMENTS.

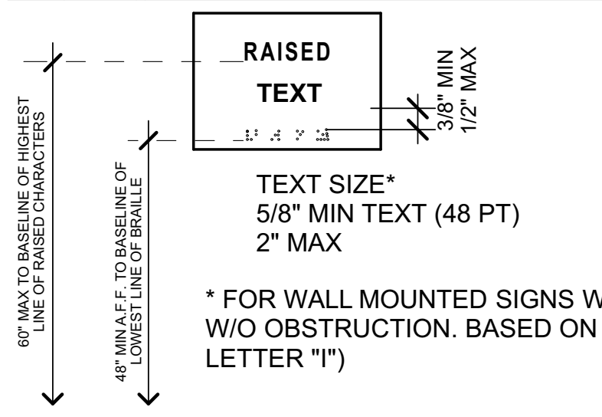
TYPICAL PLAQUE NOTES U.O.N.

NON-GLARE PLAQUES WITH TACTILE LETTERING AND SYMBOLS (RAISED 1/32") INCLUDES CONTRACTED GRADE 2 BRAILLE RAISED 1/40" PER CBC REQUIREMENTS. SAN SERIF FONT SELECTION SHALL HAVE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". A STROKE WIDTH TO HEIGHT OF THE UPPERCASE LETTER "I" SHALL BE 10% MAX OF HT OF CHARACTER.

CUSTOM COLORS, LAYOUT & LETTER STYLES TO BE SELECTED & APPROVED BY ARCHITECT, SIGNAGE SYMBOLS, BACKGROUND, MOUNTING SURFACE TO CONTRAST, 70% MINIMUM CONTRAST.

WHERE SIGN PLAQUES ARE PLACED ON GLASS, ANY BACKING PLAQUE OR SIGN IS TO BE THE SAME SIZE.

TYP WALL-MOUNTED SIGNS WITH RAISED TEXT AND BRAILLE


RAISED
TEXT
3/8" MIN
1/2" MAX
60" MAX TO BASELINE OF HIGHEST LINE OF RAISED CHARACTERS
48" MIN A.F.F. TO BASELINE OF LOWEST LINE OF BRAILLE

TEXT SIZE*
5/8" MIN TEXT (48 PT)
2" MAX

* FOR WALL MOUNTED SIGNS WHICH MAY BE VIEWED W/O OBSTRUCTION. BASED ON HT OF UPPERCASE LETTER "I")

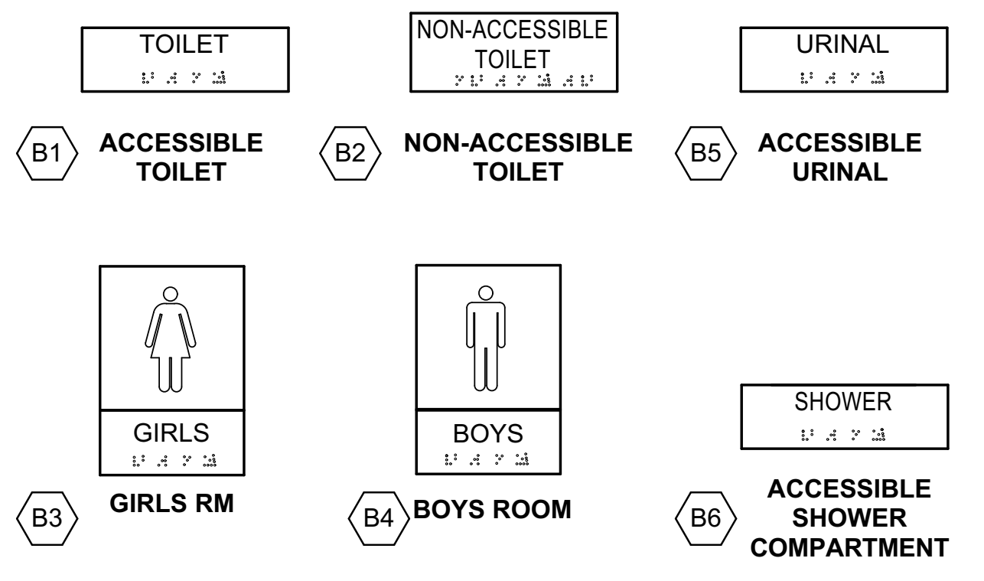
(A1) **ACCESSIBLE ENTRANCE SIGN**

VINYL 6"x6" BACKING WITH VINYL SYMBOL. BLUE BACKGROUND WITH WHITE SYMBOL. PROVIDE AT MAIN ENTRANCE AND AS NOTED.

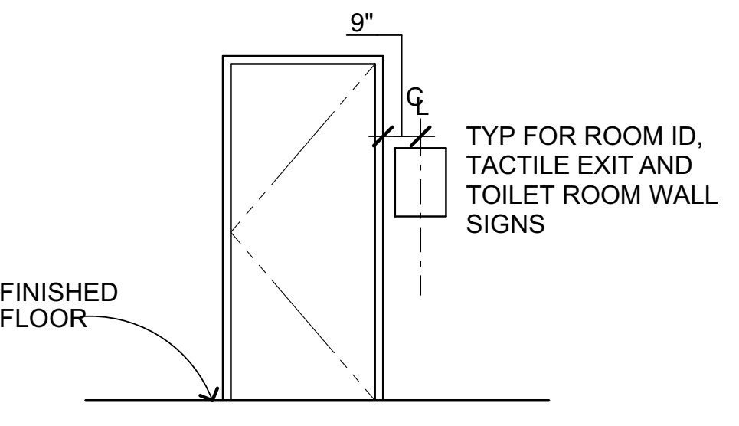
STRIKE SIDE TOILET ROOM SIGNAGE

(PLAQUE NOTES TYP FOR EACH SIGN)

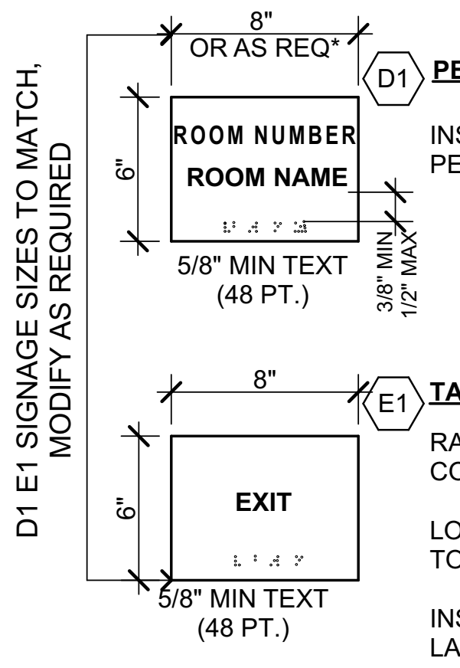
PROVIDE AT ACCESSIBLE TOILET ROOMS.
USE "GIRLS" OR "BOYS" WHERE TOILET ROOMS ARE PRIMARILY USED BY CHILDREN.



TYP MOUNTING OF SIGNS AT DOORS



PERMANENT ROOM SIGNAGE TO BE PLACED AT STRIKE SIDE. WHERE INSUFFICIENT ROOM, PLACE ON ADJACENT WALL, PREFERABLY TO THE RIGHT OF THE DOOR.



(D1) **PERMANENT ROOM I.D. SIGNAGE**

INSTALL NEXT TO ENTRANCE DOORS, PER CBC REQUIREMENTS.

(E1) **TACTILE EXIT SIGN AT ALL EXIT DOORS**

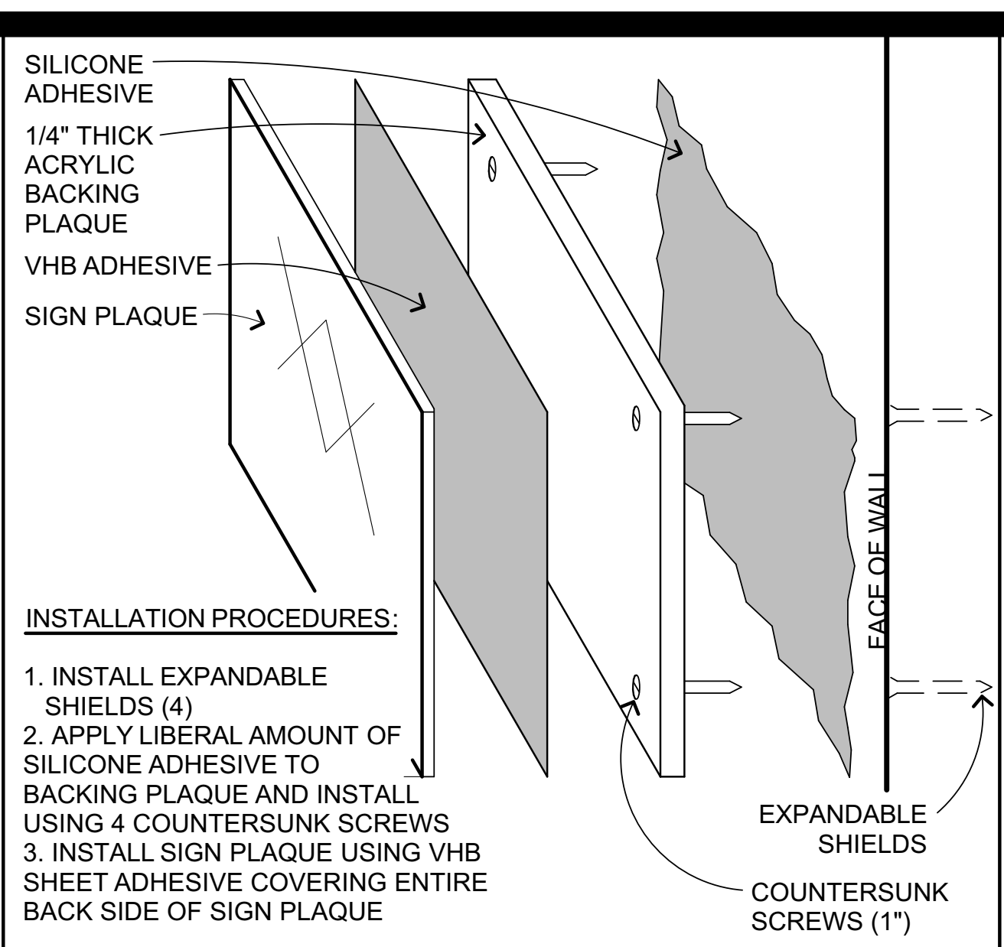
RAISED LETTERS "EXIT". BRAILLE "EXIT". CONTRACTED GRADE 2 BRAILLE

LOCATED AT ALL EXIT DOORS IN ADDITION TO OVERHEAD, ILLUMINATED EXIT SIGNS.

INSTALL ON THE WALL ADJACENT TO THE LATCH ON THE OUTSIDE OF THE DOOR WHERE THERE IS NO WALL SPACE ON THE WALL LATCH SIDE INCLUDING AT DOUBLE LEAF DOORS. SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT SIDE.

ACCESSIBLE SIGNAGE

1/4" = 1'-0" C109 SIGN 322 **27**

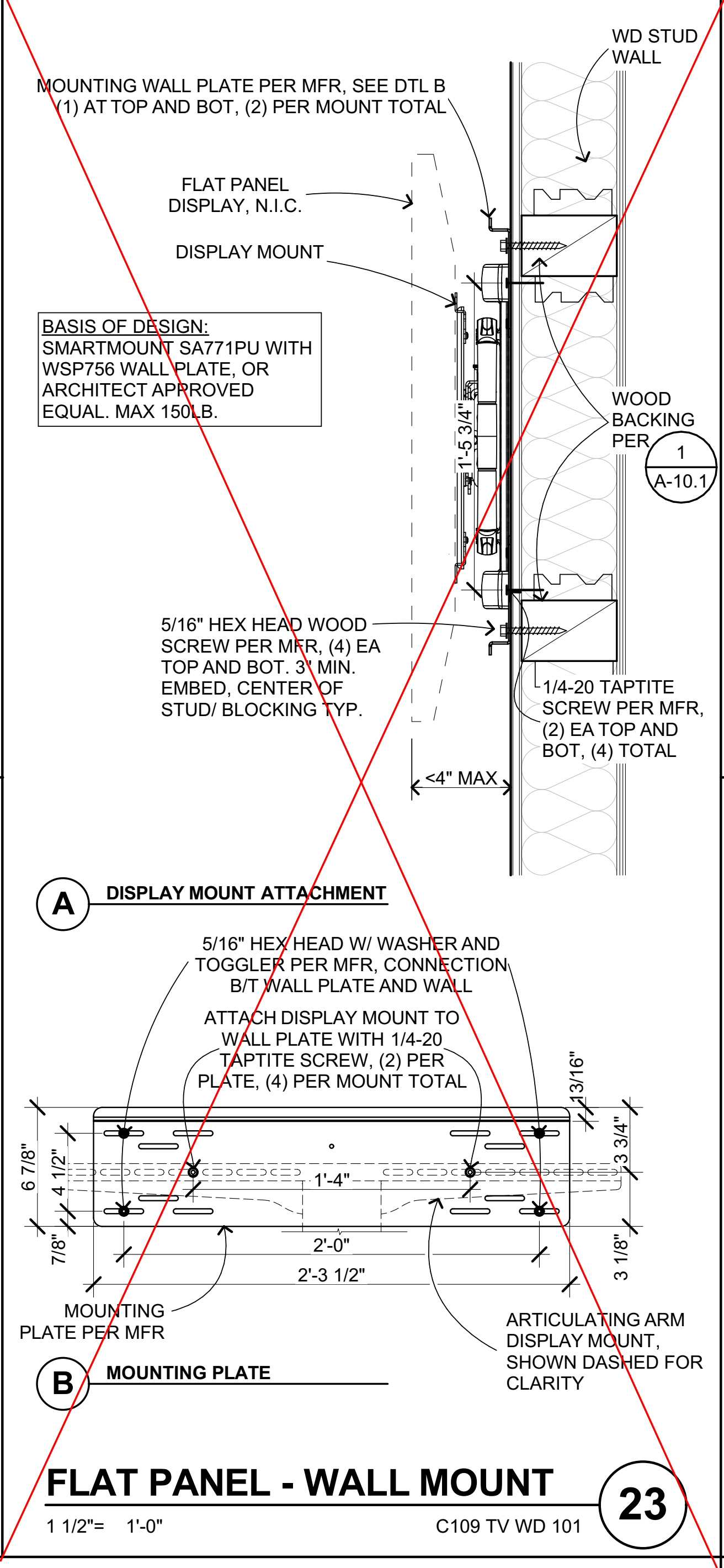


INSTALLATION PROCEDURES:

1. INSTALL EXPANDABLE SHIELDS (4)
2. APPLY LIBERAL AMOUNT OF SILICONE ADHESIVE TO BACKING PLAQUE AND INSTALL USING 4 COUNTERSUNK SCREWS
3. INSTALL SIGN PLAQUE USING VHB SHEET ADHESIVE COVERING ENTIRE BACK SIDE OF SIGN PLAQUE

SIGN INSTALLATION

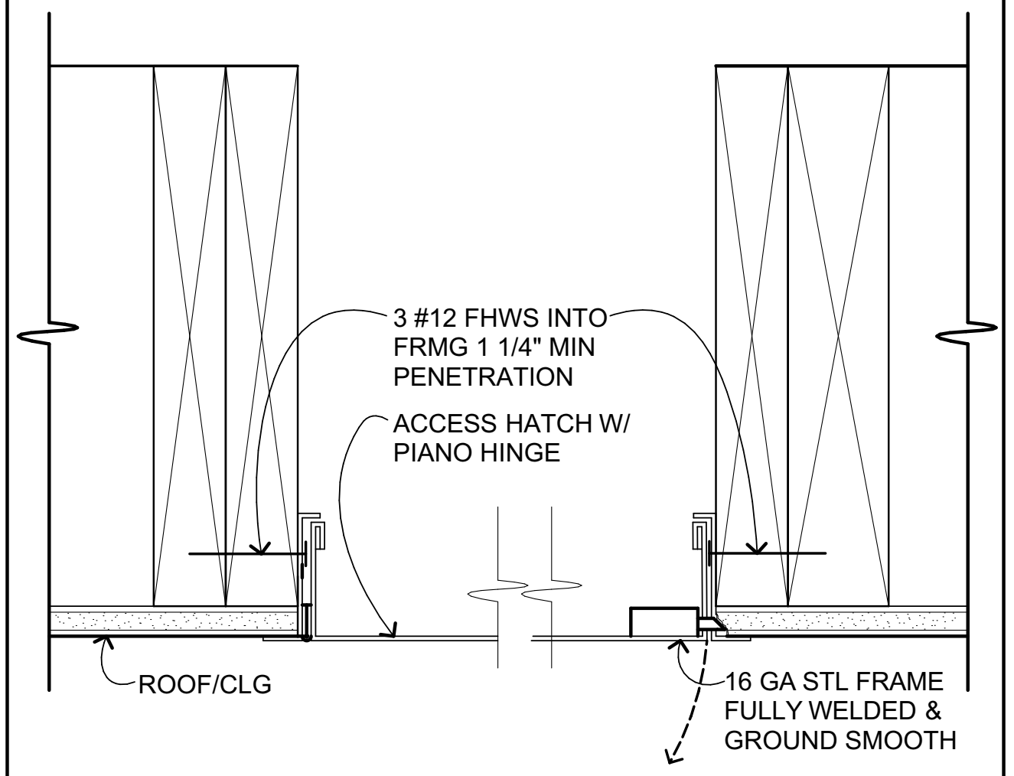
6" = 1'-0" C109 SIGN 301 **21**


WD STUD WALL
MOUNTING WALL PLATE PER MFR, SEE DTL B (1) AT TOP AND BOT, (2) PER MOUNT TOTAL
FLAT PANEL DISPLAY, N.I.C.
DISPLAY MOUNT
1'-5 3/4"
WOOD BACKING PER 1/A-10.1
5/16" HEX HEAD WOOD SCREW PER MFR, (4) EA TOP AND BOT. 3" MIN. EMBED, CENTER OF STUD/ BLOCKING TYP.
1/4-20 TAPTITE SCREW PER MFR, (2) EA TOP AND BOT, (4) TOTAL
<4" MAX
A DISPLAY MOUNT ATTACHMENT
5/16" HEX HEAD W/ WASHER AND TOGGLER PER MFR, CONNECTION B/T WALL PLATE AND WALL
ATTACH DISPLAY MOUNT TO WALL PLATE WITH 1/4-20 TAPTITE SCREW, (2) PER PLATE, (4) PER MOUNT TOTAL
13/16"
3 3/4"
6 7/8"
4 1/2"
7/8"
1'-4"
2'-0"
2'-3 1/2"
3 1/8"
MOUNTING PLATE PER MFR
ARTICULATING ARM DISPLAY MOUNT, SHOWN DASHED FOR CLARITY
B MOUNTING PLATE

BASIS OF DESIGN:
SMARTMOUNT SA771PU WITH WSP756 WALL PLATE, OR ARCHITECT APPROVED EQUAL. MAX 150LB.

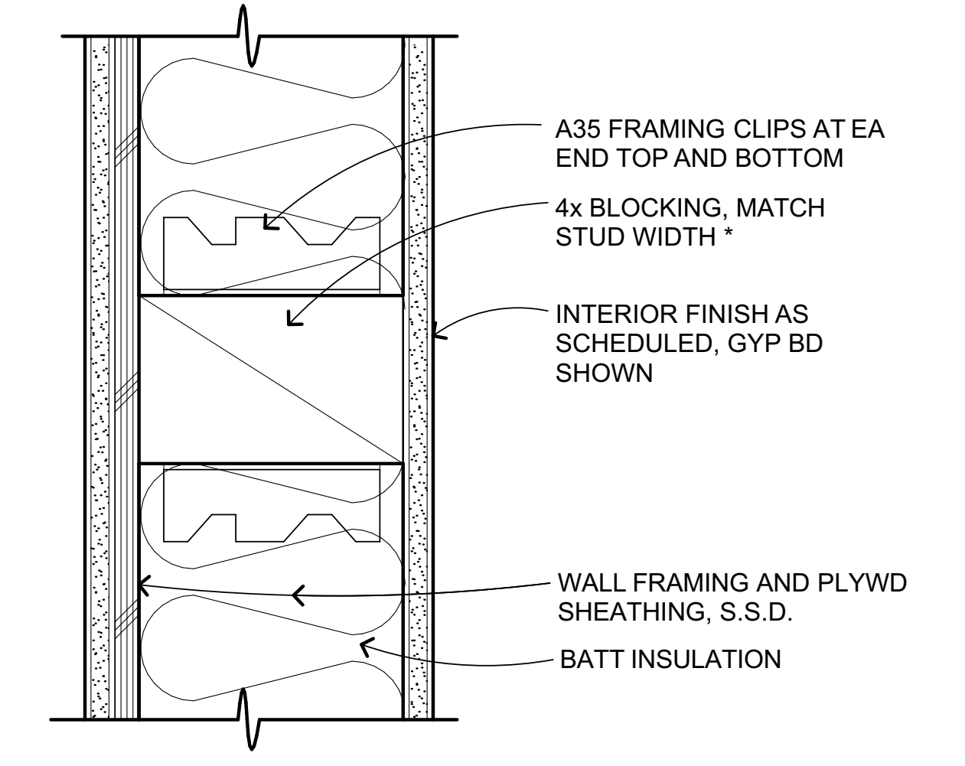
FLAT PANEL - WALL MOUNT

1 1/2"= 1'-0" C109 TV WD 101 **23**


3 #12 FHWS INTO FRMG 1 1/4" MIN PENETRATION
ACCESS HATCH W/ PIANO HINGE
ROOF/CLG
16 GA STL FRAME FULLY WELDED & GROUND SMOOTH

CLG ACCESS PANEL

3" = 1'-0" C205 WD 302 **6**

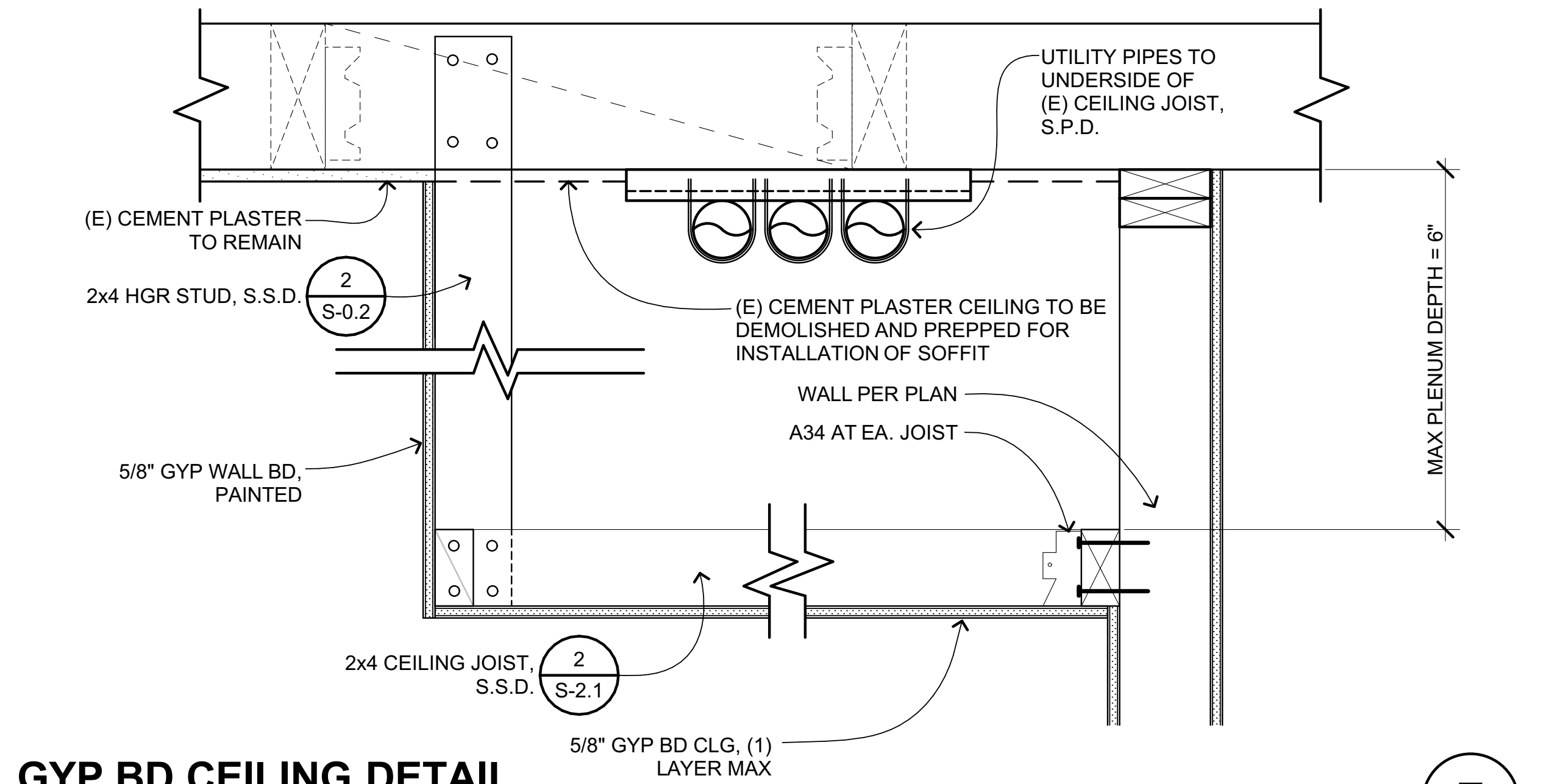

A35 FRAMING CLIPS AT EA END TOP AND BOTTOM
4x BLOCKING, MATCH STUD WIDTH *
INTERIOR FINISH AS SCHEDULED, GYP BD SHOWN
WALL FRAMING AND PLYWD SHEATHING, S.S.D.
BATT INSULATION

TYPICAL WALL OR CEILING BLOCKING / BACKING FOR ATTACHING FIXTURES, EQUIPMENT, CABINETS, AS REQUIRED

* WHERE STUD WIDTH > 5 1/2", 4 x 6 AT SIDE OF ATTACHMENT MAY BE USED.

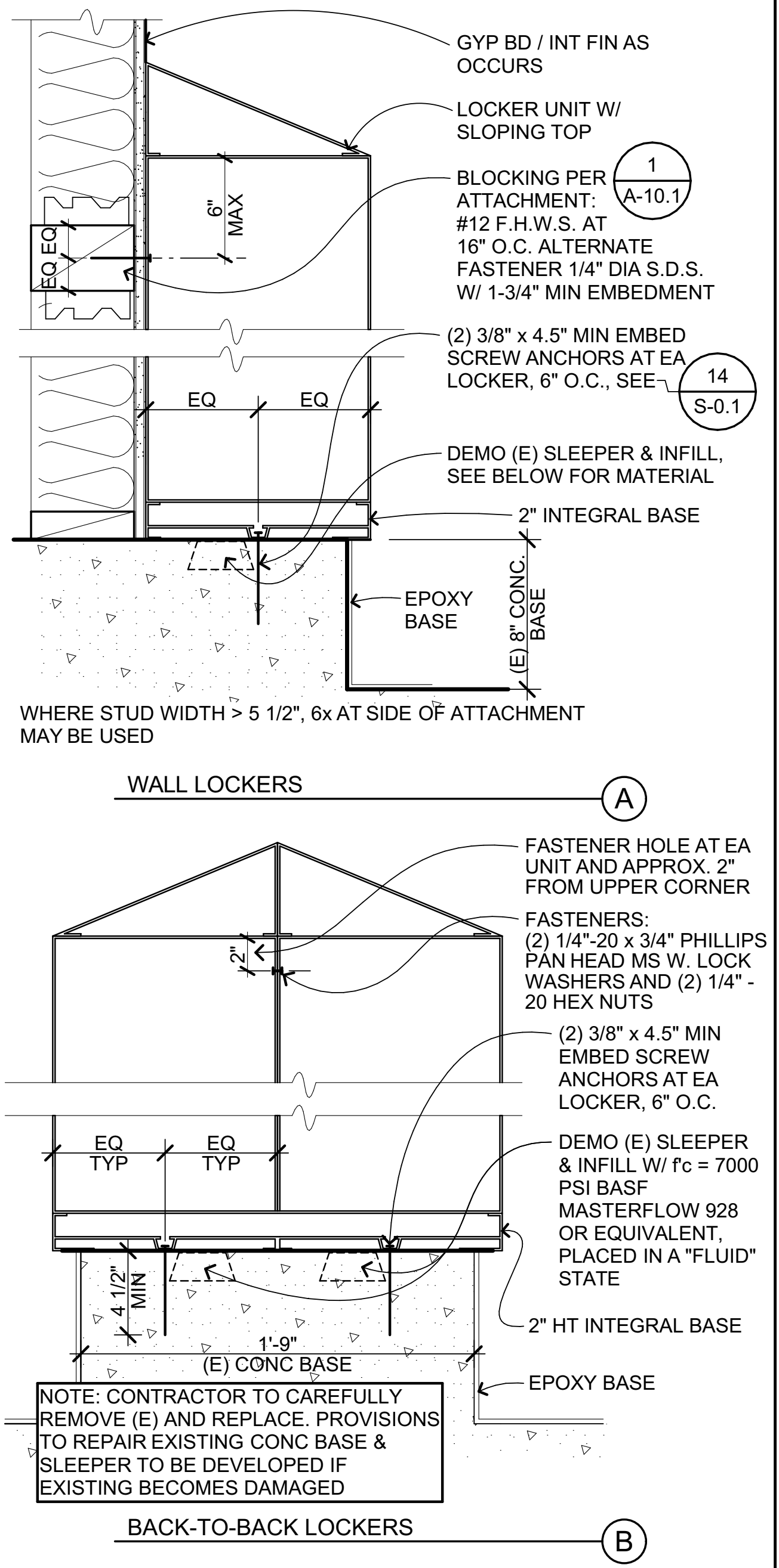
BLK'G/BACKING - WOOD

3" = 1'-0" C108 WD101 **1**


UTILITY PIPES TO UNDERSIDE OF (E) CEILING JOIST, S.P.D.
(E) CEMENT PLASTER TO REMAIN
2x4 HGR STUD, S.S.D. 2/S-0.2
(E) CEMENT PLASTER CEILING TO BE DEMOLISHED AND PREPPED FOR INSTALLATION OF SOFFIT
WALL PER PLAN
A34 AT EA. JOIST
5/8" GYP WALL BD, PAINTED
MAX PLENUM DEPTH = 6"
2x4 CEILING JOIST, S.S.D. 2/S-2.1
5/8" GYP BD CLG, (1) LAYER MAX

GYP BD CEILING DETAIL

1 1/2"= 1'-0" **7**


GYP BD / INT FIN AS OCCURS
LOCKER UNIT W/ SLOPING TOP
BLOCKING PER ATTACHMENT: 1/A-10.1 #12 F.H.W.S. AT 16" O.C. ALTERNATE FASTENER 1/4" DIA S.D.S. W/ 1-3/4" MIN EMBEDMENT
EQ EQ
6" MAX
(2) 3/8" x 4.5" MIN EMBED SCREW ANCHORS AT EA LOCKER, 6" O.C., SEE 14/S-0.1
EQ
EQ
DEMO (E) SLEEPER & INFILL, SEE BELOW FOR MATERIAL
2" INTEGRAL BASE
EPOXY BASE
(E) 8" CONC. BASE
WHERE STUD WIDTH > 5 1/2", 6x AT SIDE OF ATTACHMENT MAY BE USED
WALL LOCKERS A
FASTENER HOLE AT EA UNIT AND APPROX. 2" FROM UPPER CORNER
2"
FASTENERS: (2) 1/4"-20 x 3/4" PHILLIPS PAN HEAD MS W. LOCK WASHERS AND (2) 1/4" - 20 HEX NUTS
(2) 3/8" x 4.5" MIN EMBED SCREW ANCHORS AT EA LOCKER, 6" O.C.
EQ TYP
EQ TYP
DEMO (E) SLEEPER & INFILL W/ f'c = 7000 PSI BASF MASTERFLOW 928 OR EQUIVALENT, PLACED IN A "FLUID" STATE
4 1/2" MIN
1'-9"
(E) CONC BASE
2" HT INTEGRAL BASE
EPOXY BASE
BACK-TO-BACK LOCKERS B

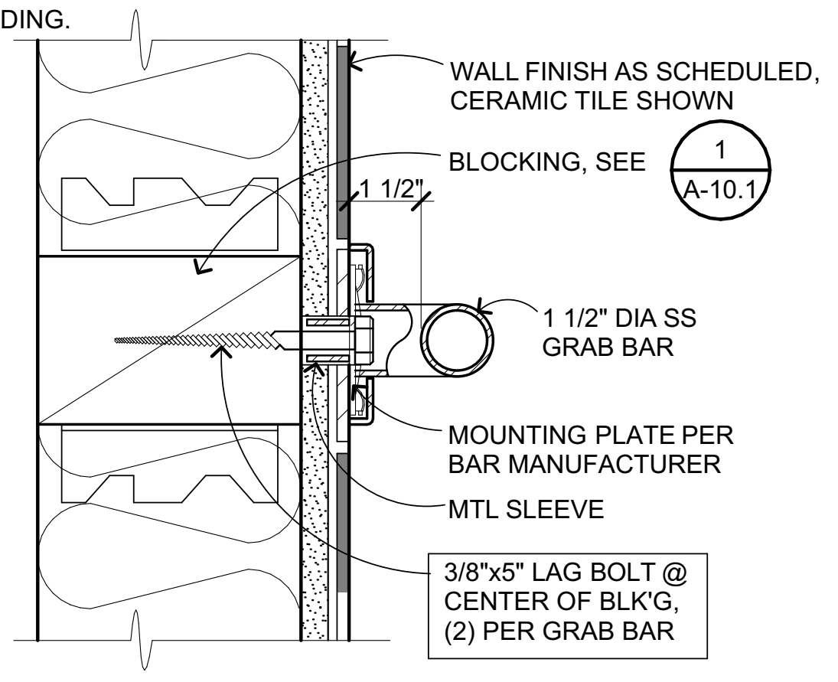
NOTE: CONTRACTOR TO CAREFULLY REMOVE (E) AND REPLACE. PROVISIONS TO REPAIR EXISTING CONC BASE & SLEEPER TO BE DEVELOPED IF EXISTING BECOMES DAMAGED

LOCKER ATTACHMENT

1 1/2"= 1'-0" C109 GYM 112 **3**

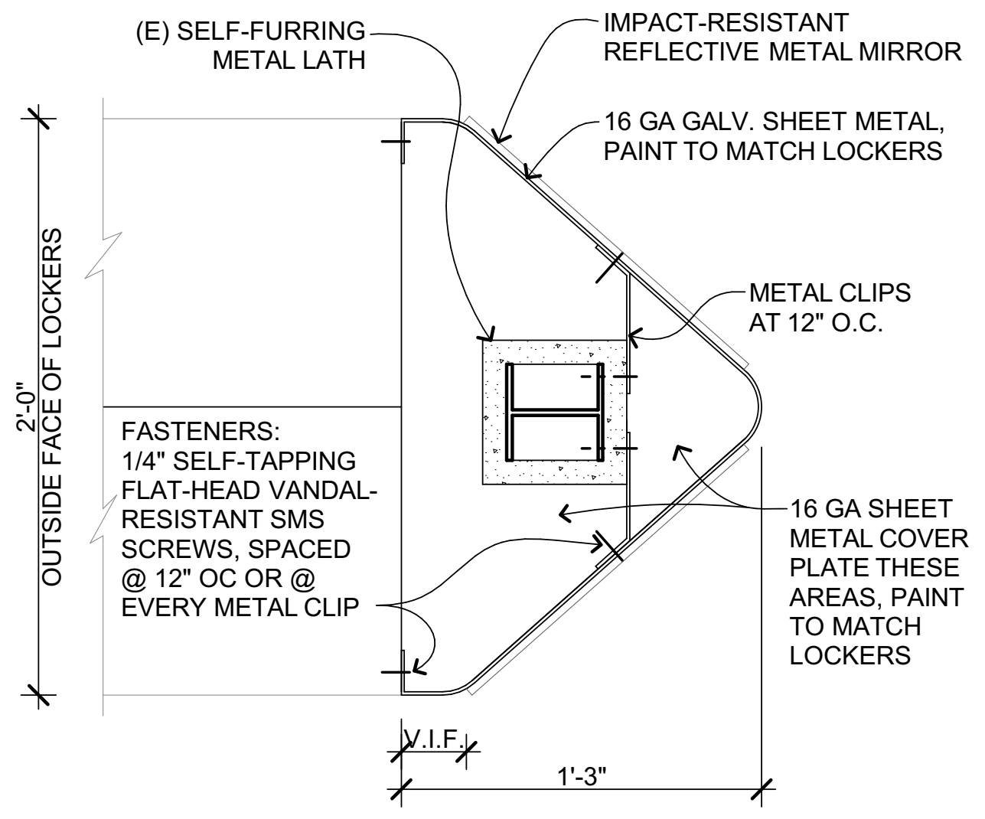
NOTES:

1. GRAB BARS SHALL NOT ROTATE.
2. GRAB BARS AND ANY SURFACE ADJACENT TO THEM CANNOT HAVE ANY SHARP OR ABRASIVE ELEMENTS.
3. CBC 11B-609.8 GRAB BARS & MOUNTINGS SHALL W/STAND 250 LBS HORIZONTAL OR VERTICAL LOADING.


WALL FINISH AS SCHEDULED, CERAMIC TILE SHOWN
BLOCKING, SEE 1/A-10.1
1 1/2"
1 1/2" DIA SS GRAB BAR
MOUNTING PLATE PER BAR MANUFACTURER
MTL SLEEVE
3/8"x5" LAG BOLT @ CENTER OF BLK'G, (2) PER GRAB BAR

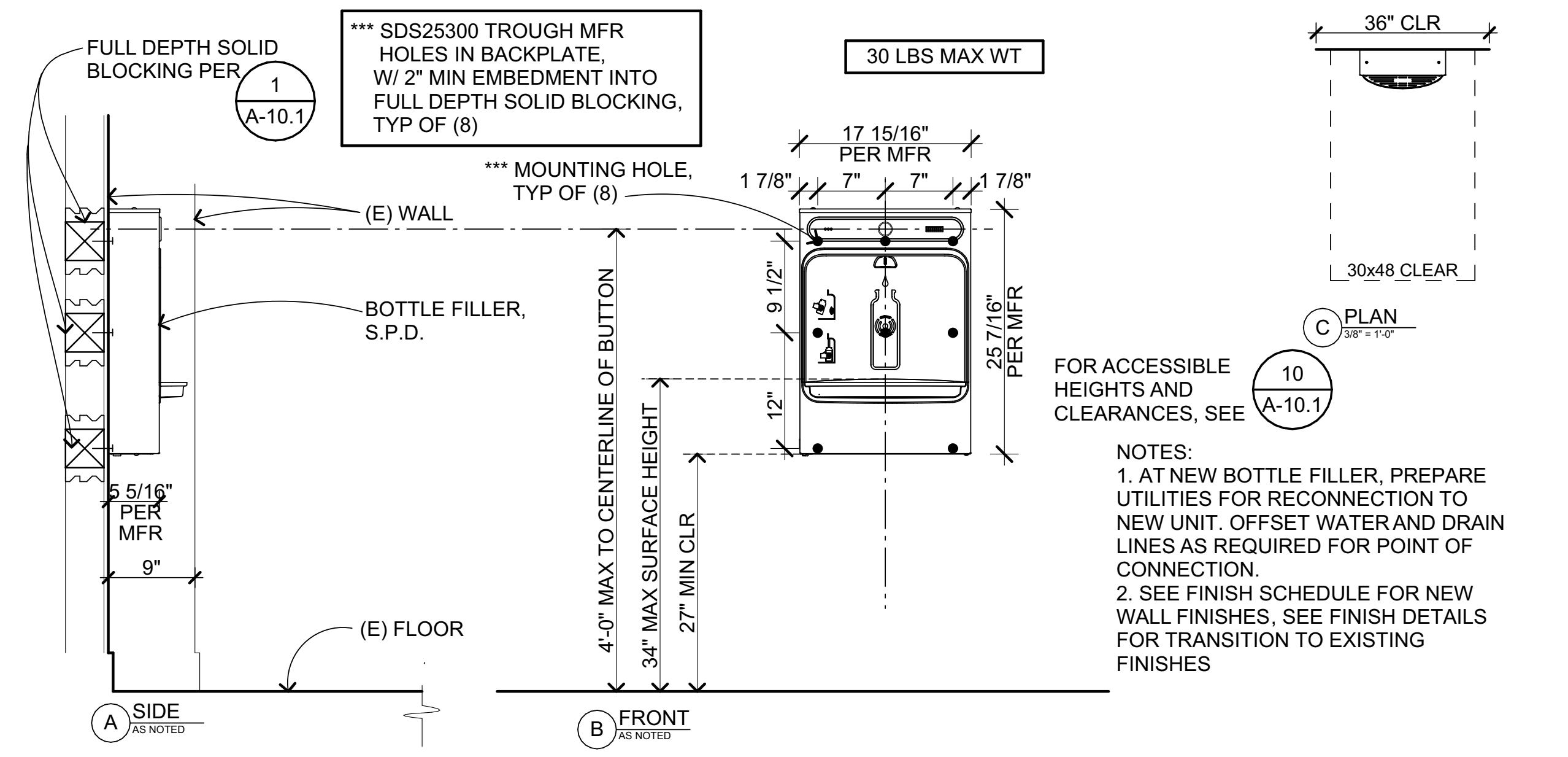
GRAB BAR ATTACHMENT

3" = 1'-0" C109 RR101 **33**


(E) SELF-FURRING METAL LATH
IMPACT-RESISTANT REFLECTIVE METAL MIRROR
16 GA GALV. SHEET METAL, PAINT TO MATCH LOCKERS
METAL CLIPS AT 12" O.C.
2'-0" OUTSIDE FACE OF LOCKERS
FASTENERS: 1/4" SELF-TAPPING FLAT-HEAD VANDAL-RESISTANT SMS SCREWS, SPACED @ 12" OC OR @ EVERY METAL CLIP
16 GA SHEET METAL COVER PLATE THESE AREAS, PAINT TO MATCH LOCKERS
V.I.F.
1'-3"

LOCKER END AT COLUMN

1 1/2"= 1'-0" **28**



*** SDS25300 TROUGH MFR HOLES IN BACKPLATE, W/ 2" MIN EMBEDMENT INTO FULL DEPTH SOLID BLOCKING, TYP OF (8)

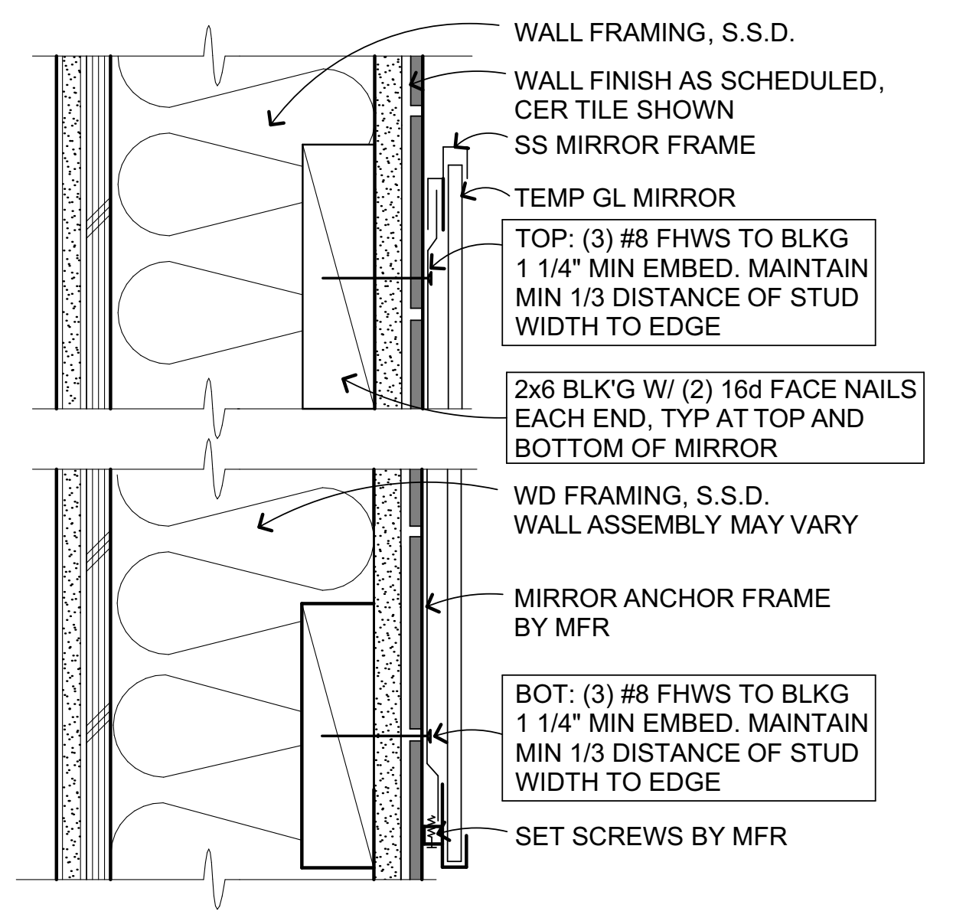
FOR ACCESSIBLE HEIGHTS AND CLEARANCES, SEE 10/A-10.1

NOTES:

1. AT NEW BOTTLE FILLER, PREPARE UTILITIES FOR RECONNECTION TO NEW UNIT. OFFSET WATER AND DRAIN LINES AS REQUIRED FOR POINT OF CONNECTION.
2. SEE FINISH SCHEDULE FOR NEW WALL FINISHES, SEE FINISH DETAILS FOR TRANSITION TO EXISTING FINISHES

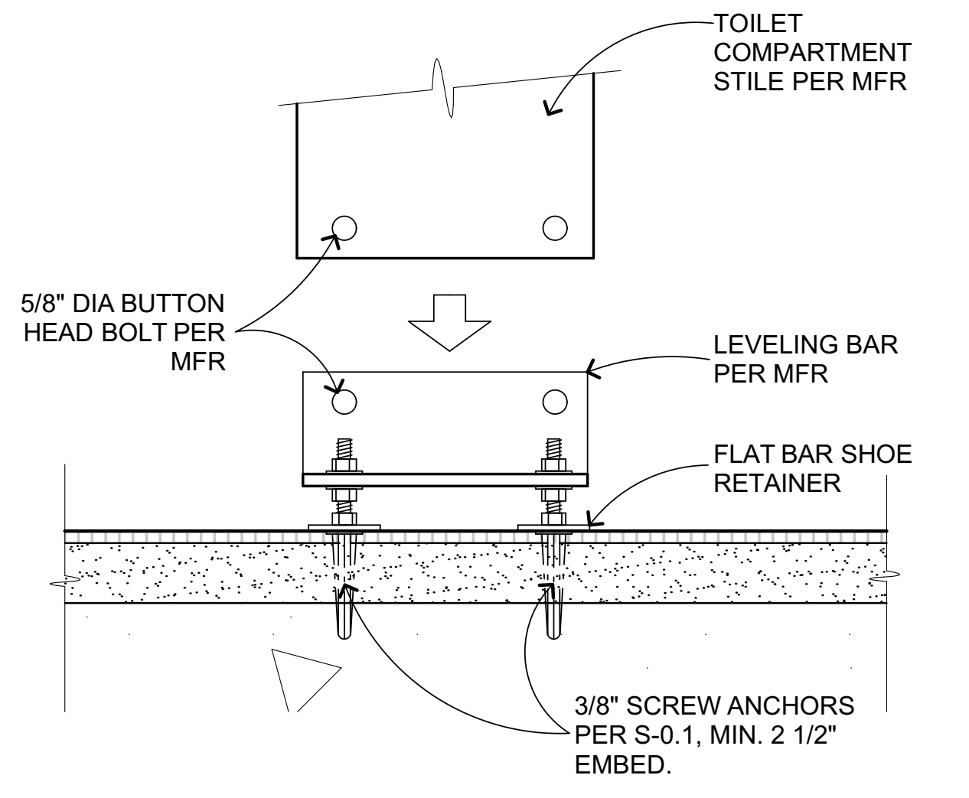
BOTTLE FILLER

3/4" = 1'-0" **13**


WALL FRAMING, S.S.D.
WALL FINISH AS SCHEDULED, CER TILE SHOWN
SS MIRROR FRAME
TEMP GL MIRROR
TOP: (3) #8 FHWS TO BLKG 1 1/4" MIN EMBED. MAINTAIN MIN 1/3 DISTANCE OF STUD WIDTH TO EDGE
2x6 BLK'G W/ (2) 16d FACE NAILS EACH END, TYP AT TOP AND BOTTOM OF MIRROR
WD FRAMING, S.S.D. WALL ASSEMBLY MAY VARY
MIRROR ANCHOR FRAME BY MFR
BOT: (3) #8 FHWS TO BLKG 1 1/4" MIN EMBED. MAINTAIN MIN 1/3 DISTANCE OF STUD WIDTH TO EDGE
SET SCREWS BY MFR

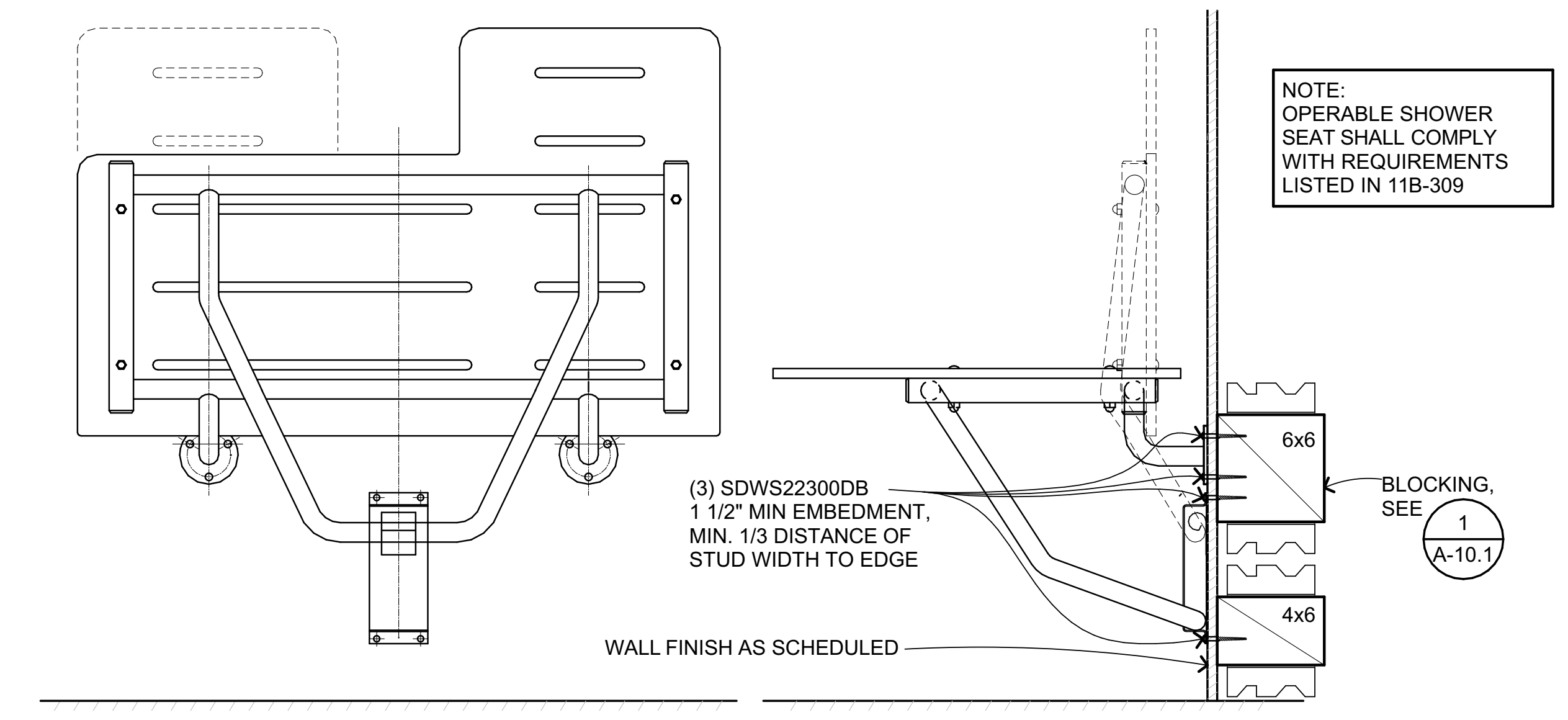
MIRROR ATTACHMENT

3" = 1'-0" C109 RR103 **8**


TOILET COMPARTMENT STILE PER MFR
5/8" DIA BUTTON HEAD BOLT PER MFR
LEVELING BAR PER MFR
FLAT BAR SHOE RETAINER
3/8" SCREW ANCHORS PER S-0.1, MIN. 2 1/2" EMBED.

TOILET COMPARTMENT ATT. AT FLOOR

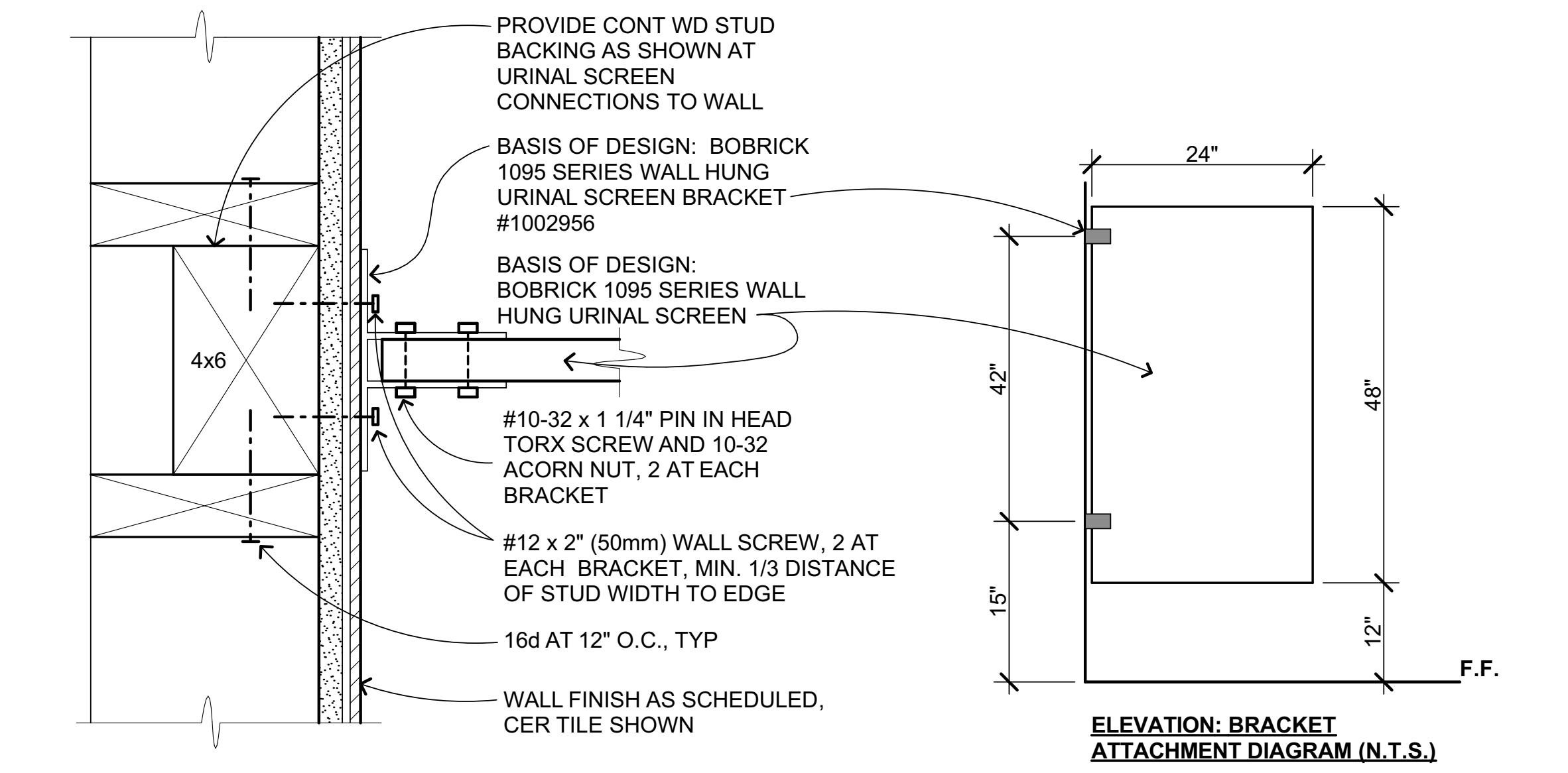
3" = 1'-0" C109 RR105 **34**


(3) SDWS22300DB 1 1/2" MIN EMBEDMENT, MIN. 1/3 DISTANCE OF STUD WIDTH TO EDGE
6x6
4x6
BLOCKING, SEE 1/A-10.1
WALL FINISH AS SCHEDULED

NOTE:
OPERABLE SHOWER SEAT SHALL COMPLY WITH REQUIREMENTS LISTED IN 11B-309

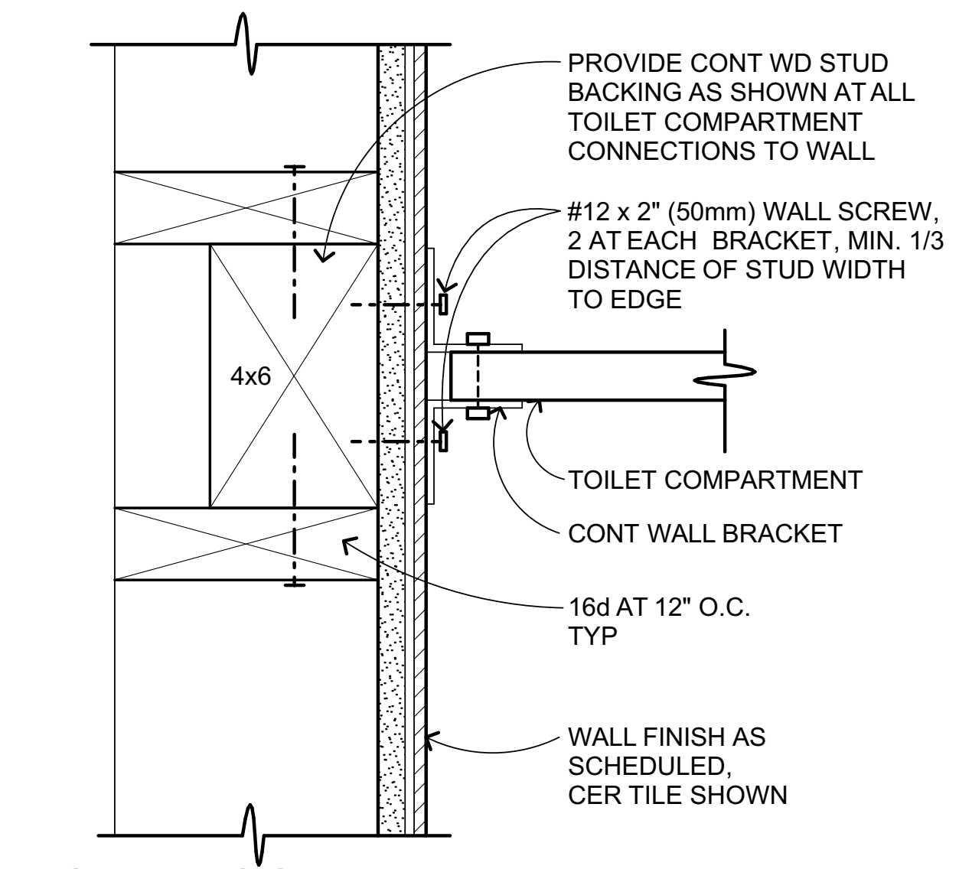
SHOWER SEAT

1 1/2"= 1'-0" **24**


PROVIDE CONT WD STUD BACKING AS SHOWN AT URINAL SCREEN CONNECTIONS TO WALL
BASIS OF DESIGN: BOBRICK 1095 SERIES WALL HUNG URINAL SCREEN BRACKET #1002956
BASIS OF DESIGN: BOBRICK 1095 SERIES WALL HUNG URINAL SCREEN
4x6
#10-32 x 1 1/4" PIN IN HEAD TORX SCREW AND 10-32 ACORN NUT, 2 AT EACH BRACKET
#12 x 2" (50mm) WALL SCREW, 2 AT EACH BRACKET, MIN. 1/3 DISTANCE OF STUD WIDTH TO EDGE
16d AT 12" O.C., TYP
WALL FINISH AS SCHEDULED, CER TILE SHOWN
24"
42"
48"
15"
12"
F.F.
ELEVATION: BRACKET ATTACHMENT DIAGRAM (N.T.S.)

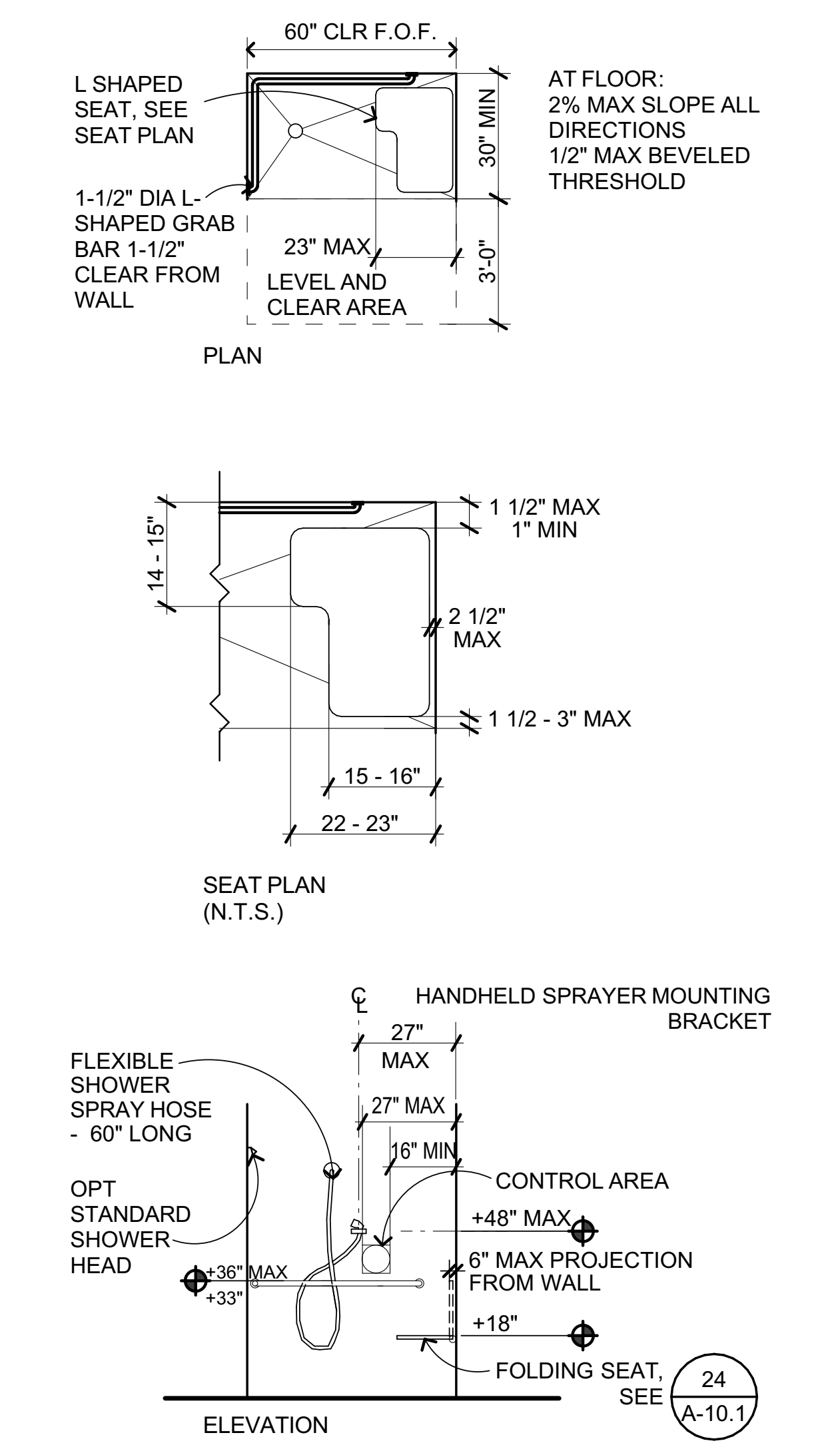
WALL-HUNG URINAL SCREEN

3" = 1'-0" C109 RR106 **14**


PROVIDE CONT WD STUD BACKING AS SHOWN AT ALL TOILET COMPARTMENT CONNECTIONS TO WALL
#12 x 2" (50mm) WALL SCREW, 2 AT EACH BRACKET, MIN. 1/3 DISTANCE OF STUD WIDTH TO EDGE
4x6
TOILET COMPARTMENT
CONT WALL BRACKET
16d AT 12" O.C. TYP
WALL FINISH AS SCHEDULED, CER TILE SHOWN

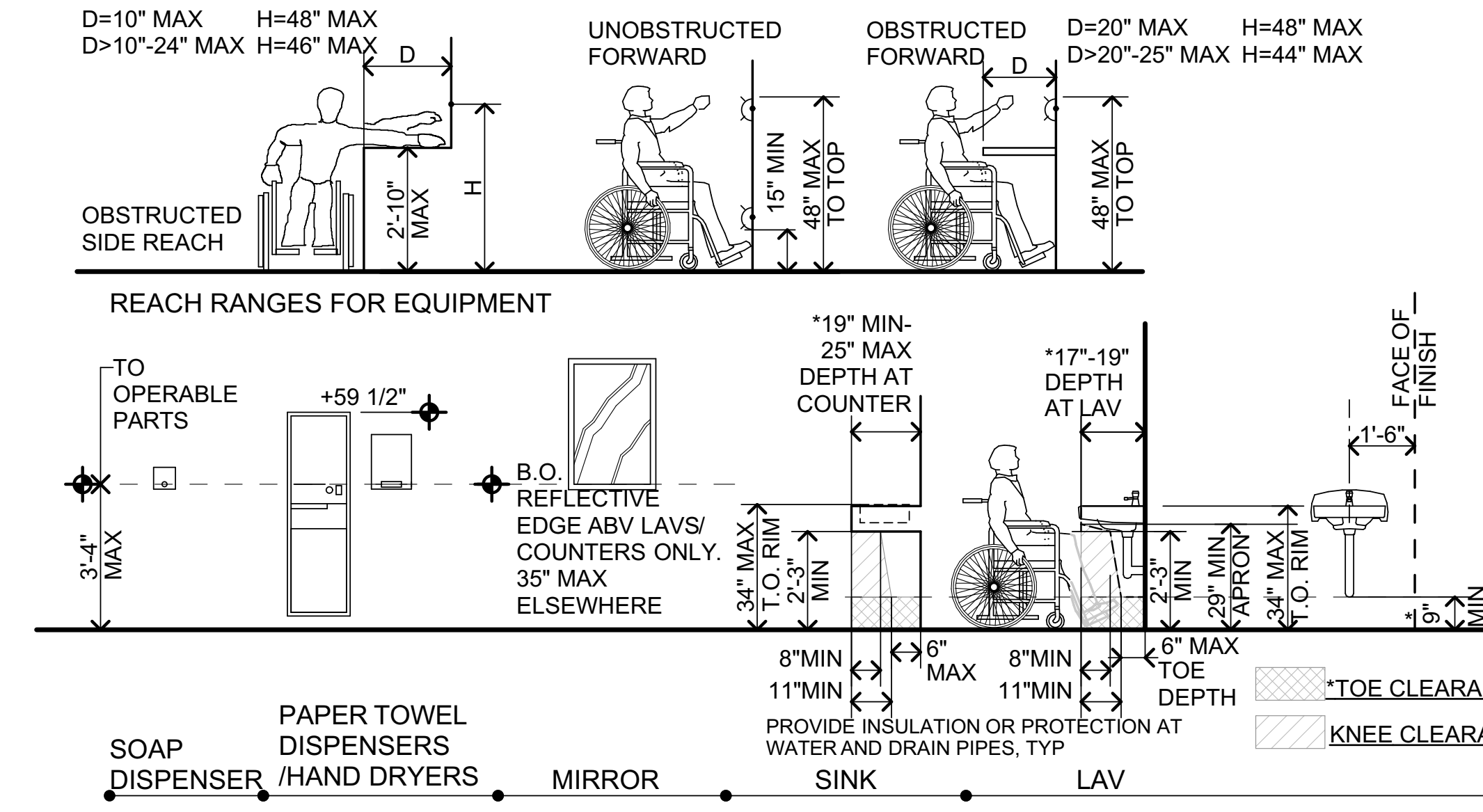
TOILET COMPARTMENT BLK'G AT WOOD STUD

3" = 1'-0" C109 RR104 **9**


60" CLR F.O.F.
L SHAPED SEAT, SEE SEAT PLAN
30" MIN
AT FLOOR: 2% MAX SLOPE ALL DIRECTIONS 1/2" MAX BEVELED THRESHOLD
1-1/2" DIA L-SHAPED GRAB BAR 1-1/2" CLEAR FROM WALL
23" MAX
LEVEL AND CLEAR AREA
3'-0"
PLAN
14 - 15"
1 1/2" MAX 1" MIN
2 1/2" MAX
1 1/2 - 3" MAX
15 - 16"
22 - 23"
SEAT PLAN (N.T.S.)
CL
HANDHELD SPRAYER MOUNTING BRACKET
27" MAX
27" MAX
16" MIN
FLEXIBLE SHOWER SPRAY HOSE - 60" LONG
OPT STANDARD SHOWER HEAD
CONTROL AREA
+48" MAX
+36" MAX
+33"
6" MAX PROJECTION FROM WALL
+18"
FOLDING SEAT, SEE 24/A-10.1
ELEVATION

ACCESSIBLE SHOWER

1/4" = 1'-0" C401103 **5**



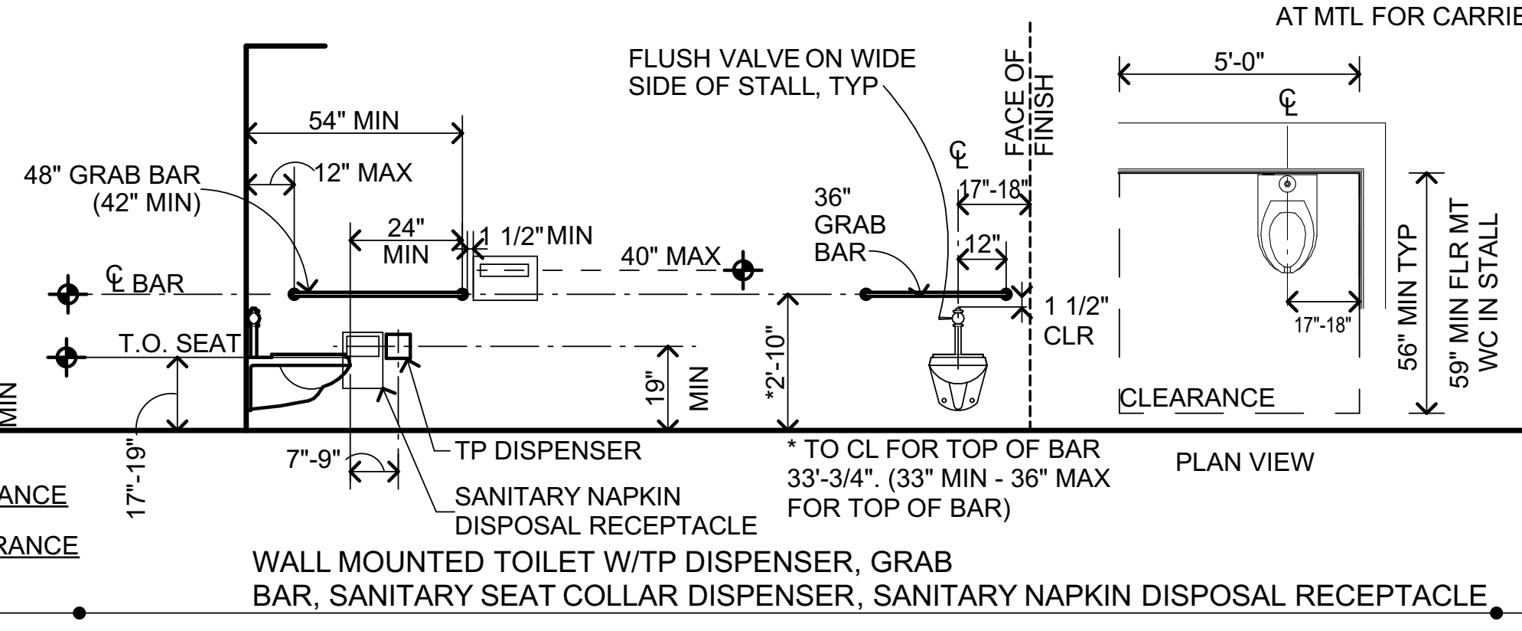
TYPICAL:

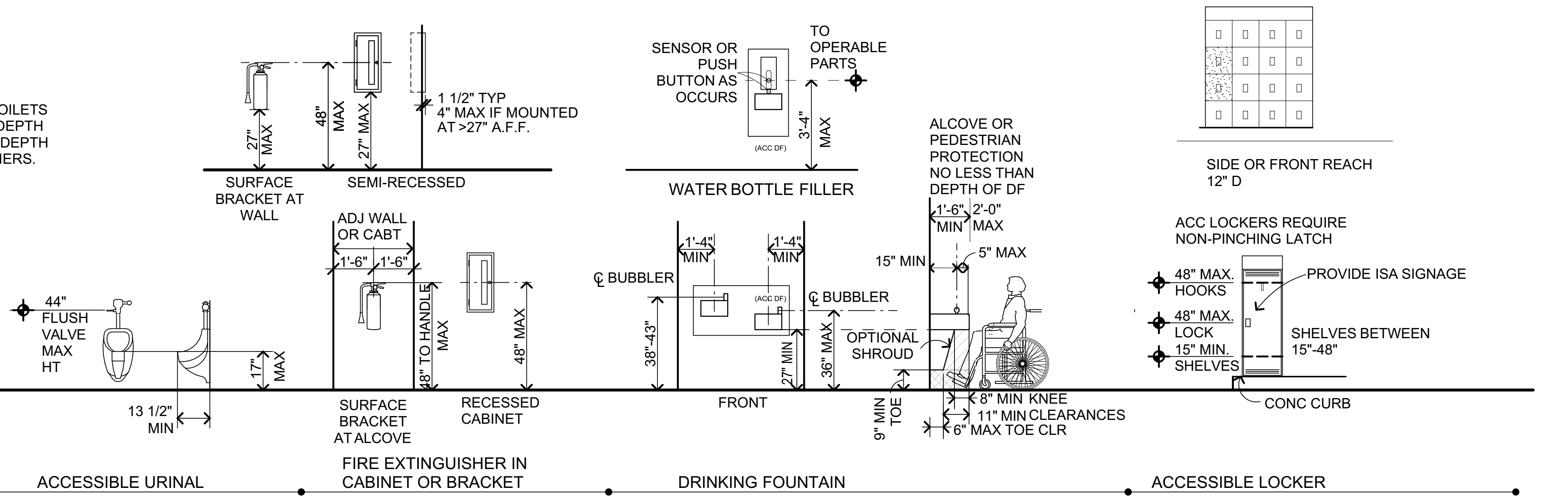
REFER TO PLANS FOR DETAILED INFORMATION SPECIFIC TO THE PROJECT. DIMENSIONS ARE TO FACE OF FINISH, CONTRACTOR TO VERIFY ALL WALL ASSEMBLIES AND INTERIOR FINISHES.

NOTES AT ACC TOILET STALL

- COAT HOOKS WHEN PROVIDED SHALL BE MOUNTED AT +48" MAX A.F.F.
- DOOR PULLS (LOOP OR U-SHAPE HANDLE) SHALL BE MOUNTED AT BOTH SIDES OF DOOR.
- SLIDE TYPE OR FLIP OVER LATCH (34"-44" A.F.F.) AT ACCESSIBLE STALL DOORS.
- DOOR SHALL BE SELF CLOSING

WALL MOUNTED TOILETS REQUIRE MIN 10" DEPTH AT WOOD, 14 MIN DEPTH AT MTL FOR CARRIERS.


48" GRAB BAR (42" MIN)
54" MIN
12" MAX
24" MIN
1 1/2"MIN
40" MAX
CL BAR
T.O. SEAT
17"-19"
7"-9"
19" MIN
TP DISPENSER
SANITARY NAPKIN DISPOSAL RECEPTACLE
FLUSH VALVE ON WIDE SIDE OF STALL, TYP
FACE OF FINISH
36" GRAB BAR
CL
17"-18"
12"
1 1/2" CLR
*2'-10"
* TO CL FOR TOP OF BAR 33'-3/4". (33" MIN - 36" MAX FOR TOP OF BAR)
5'-0"
CL
17"-18"
CLEARANCE
56" MIN TYP
59" MIN FLR MT WC IN STALL
PLAN VIEW
WALL MOUNTED TOILET W/TP DISPENSER, GRAB BAR, SANITARY SEAT COLLAR DISPENSER, SANITARY NAPKIN DISPOSAL RECEPTACLE



ACCESSIBILITY DETAILS

1/4" = 1'-0" C401 **10**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

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SIGNED: AUGUST 25, 2020

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
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HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

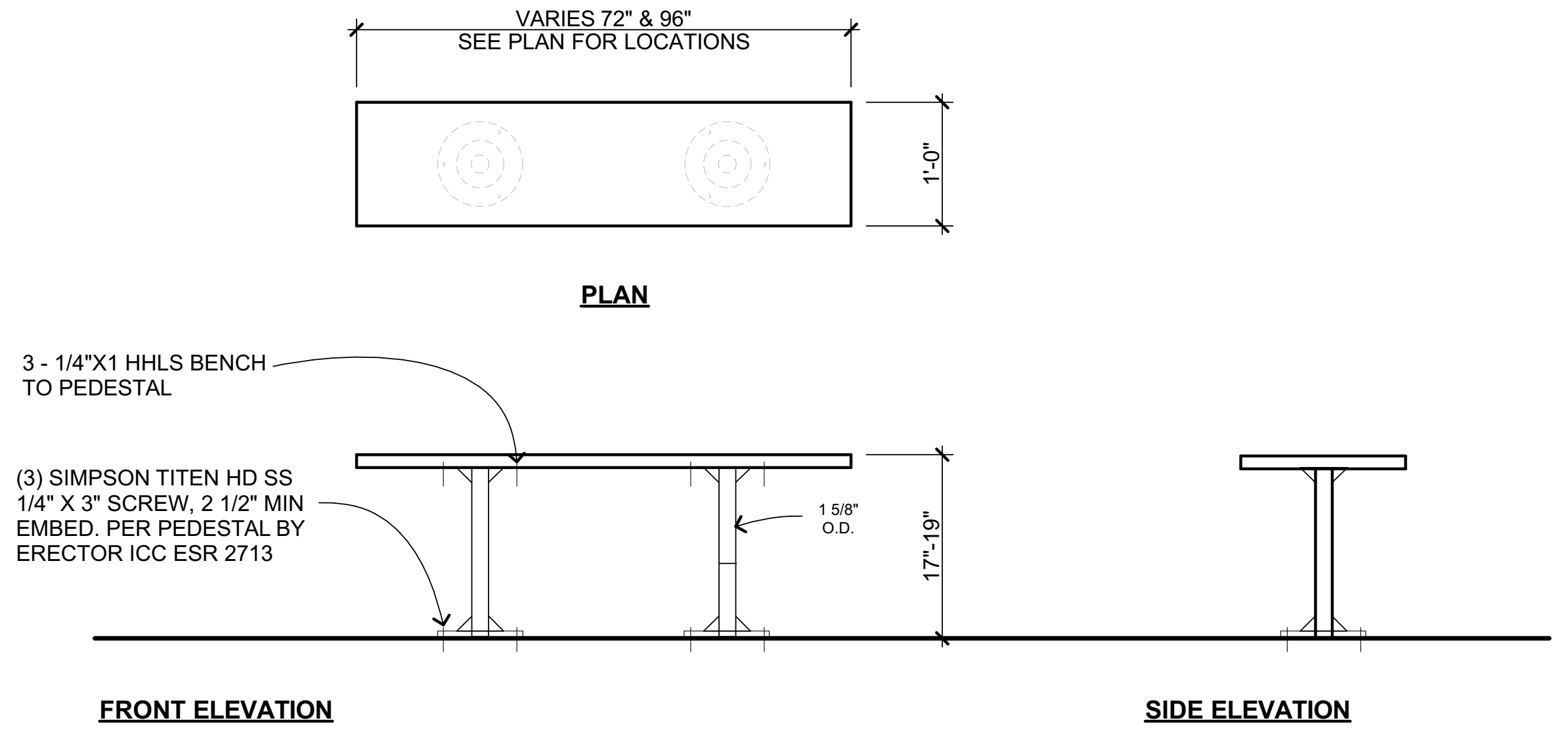
BID SET 2026
4.15.2026

SHEET TITLE

DETAILS

SHEET NUMBER

A-10.1

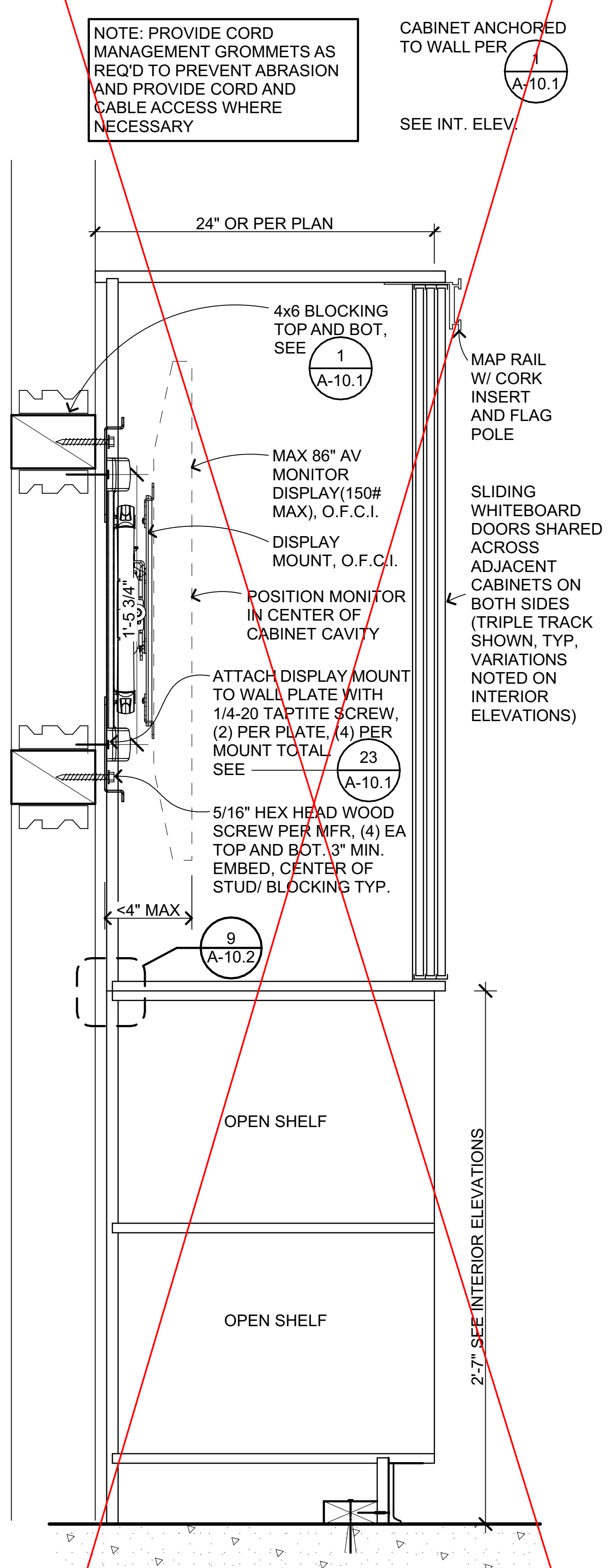

VARIES 72" & 96"
SEE PLAN FOR LOCATIONS
1'-0"
PLAN
3 - 1/4"X1 HHLS BENCH TO PEDESTAL
(3) SIMPSON TITEN HD SS 1/4" X 3" SCREW, 2 1/2" MIN EMBED. PER PEDESTAL BY ERECTOR ICC ESR 2713
1 5/8" O.D.
17"-19"
FRONT ELEVATION
SIDE ELEVATION

BENCH - LOCKER ROOMS

3/4" = 1'-0"

2019-DTL2

28


NOTE: PROVIDE CORD MANAGEMENT GROMMETS AS REQ'D TO PREVENT ABRASION AND PROVIDE CORD AND CABLE ACCESS WHERE NECESSARY
CABINET ANCHORED TO WALL PER 1/A-10.1
SEE INT. ELEV.
24" OR PER PLAN
4x6 BLOCKING TOP AND BOT, SEE 1/A-10.1
MAP RAIL W/ CORK INSERT AND FLAG POLE
MAX 86" AV MONITOR DISPLAY(150# MAX), O.F.C.I.
DISPLAY MOUNT, O.F.C.I.
SLIDING WHITEBOARD DOORS SHARED ACROSS ADJACENT CABINETS ON BOTH SIDES (TRIPLE TRACK SHOWN, TYP, VARIATIONS NOTED ON INTERIOR ELEVATIONS)
POSITION MONITOR IN CENTER OF CABINET CAVITY
1'-5 3/4"
ATTACH DISPLAY MOUNT TO WALL PLATE WITH 1/4-20 TAPTITE SCREW, (2) PER PLATE, (4) PER MOUNT TOTAL SEE 23/A-10.1
5/16" HEX HEAD WOOD SCREW PER MFR, (4) EA TOP AND BOT. 3" MIN. EMBED, CENTER OF STUD/ BLOCKING TYP.
<4" MAX
9/A-10.2
OPEN SHELF
OPEN SHELF
2'-7" SEE INTERIOR ELEVATIONS

TEACHING WALL CABINET

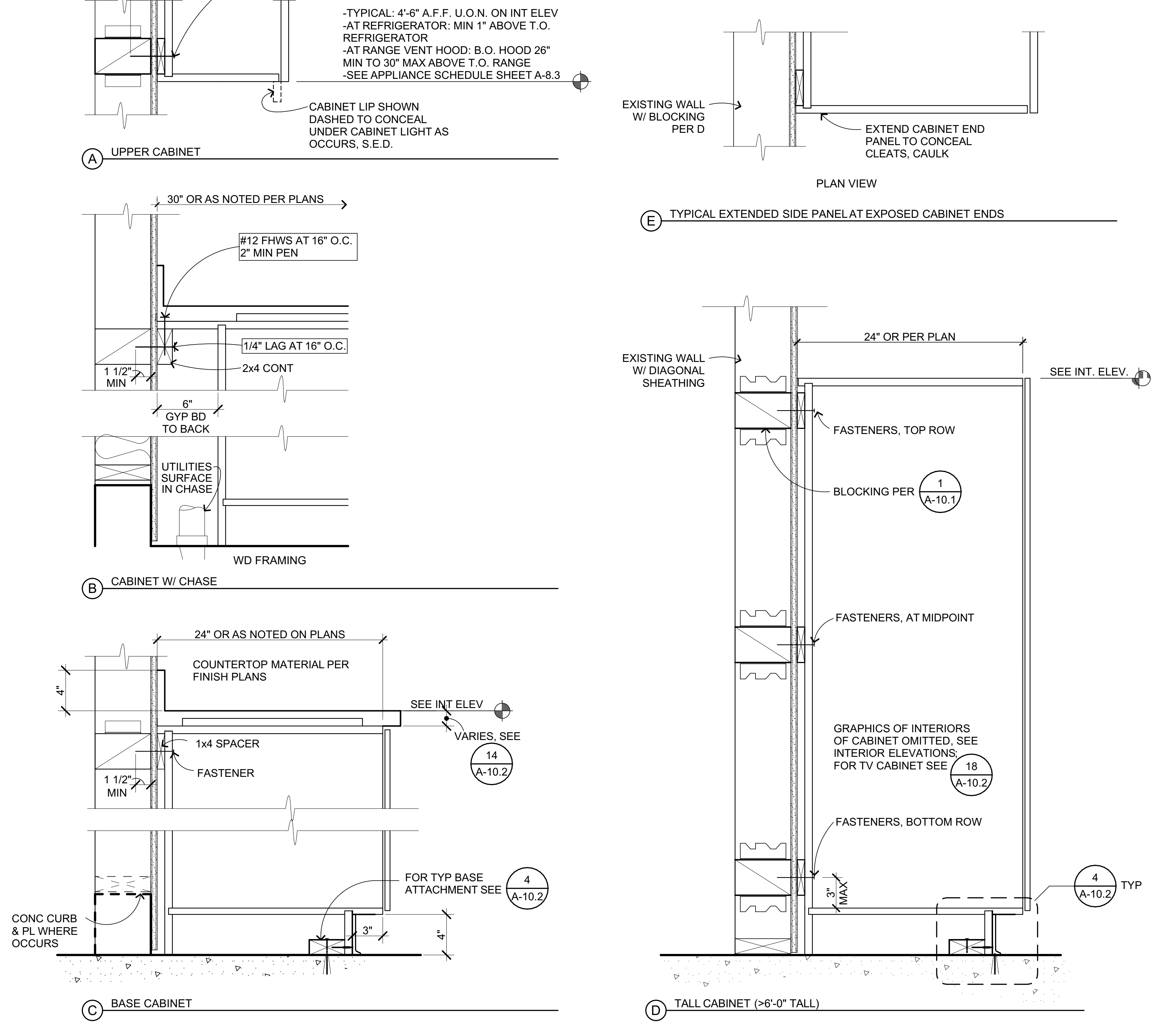
1 1/2"= 1'-0"

18

TYPICAL FASTENER :
2" MAX FROM **ENDS**. 3 MIN PER CABINET
MIN. 1/3 DISTANCE OF STUD WIDTH TO **EDGE**.
WOOD: #12 F.H.W.S. AT 16" O.C. SET FLUSH.
ALTERNATE FASTENER 1/4" Ø SDS W/ 1-3/4" MIN EMBEDMENT.

FOR BLOCKING AT WOOD FRAMING SEE 1/A-10.1

CABINET NOTES:
WOOD VENEER CABINET U.O.N. ON INT ELEVATIONS OR OTHERWISE SCHEDULED.
DADO AND GLUE CABINET CARCASS. 3/4" BACKING, INTEGRAL TOE, TYPICAL

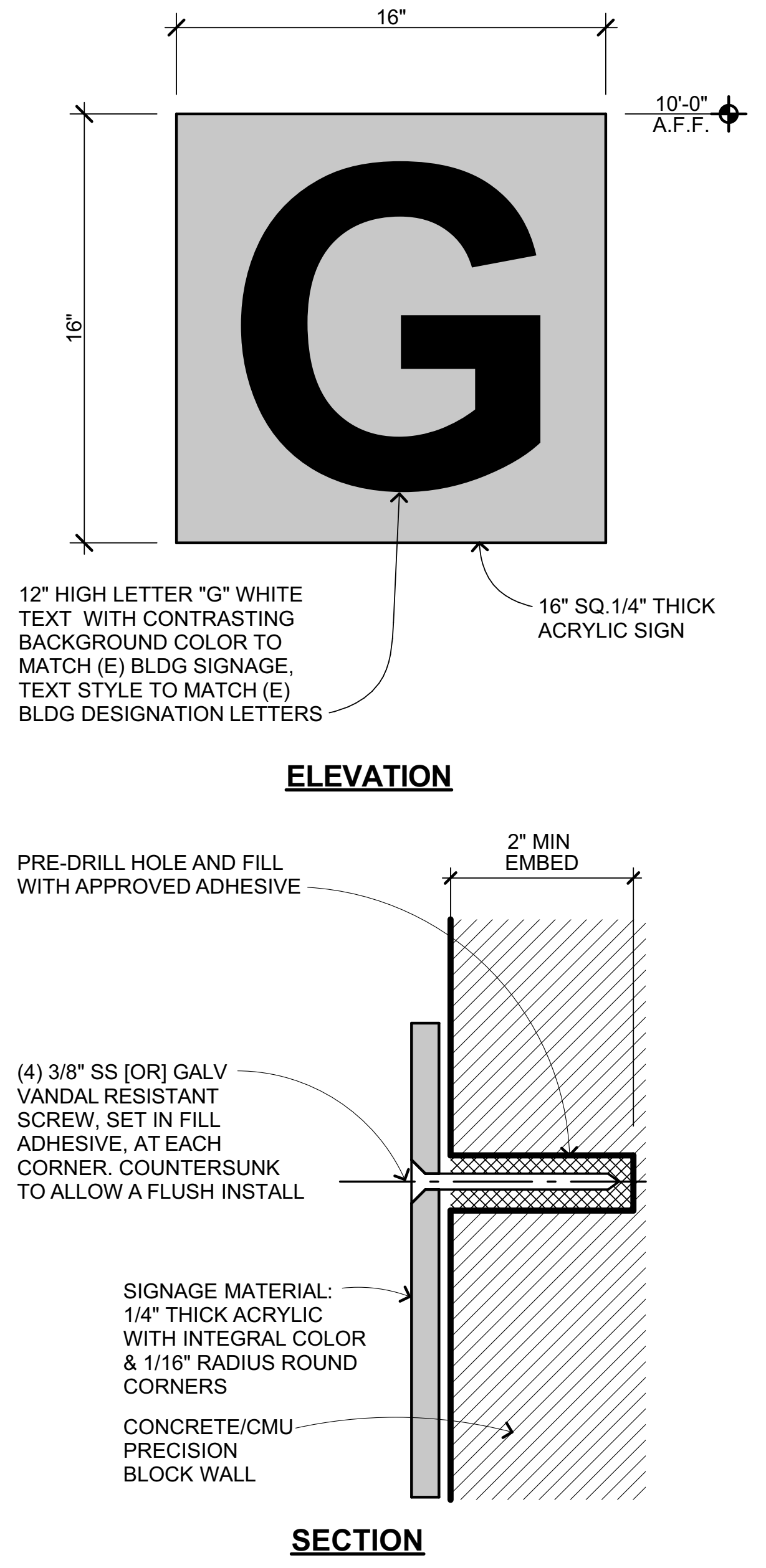

12" OR AS NOTED
SEE INT ELEV
2x2x2" x .0120" ANGLE AT 16" O.C. W/ #12 FHWS
1x4 SPACER, TYPICAL
3/4" BACKING
FASTENERS
2" MIN
-TYPICAL: 4'-6" A.F.F. U.O.N. ON INT ELEV
-AT REFRIGERATOR: MIN 1" ABOVE T.O. REFRIGERATOR
-AT RANGE VENT HOOD: B.O. HOOD 26" MIN TO 30" MAX ABOVE T.O. RANGE
-SEE APPLIANCE SCHEDULE SHEET A-8.3
CABINET LIP SHOWN DASHED TO CONCEAL UNDER CABINET LIGHT AS OCCURS, S.E.D.
A UPPER CABINET
30" OR AS NOTED PER PLANS
#12 FHWS AT 16" O.C. 2" MIN PEN
1/4" LAG AT 16" O.C.
2x4 CONT
1 1/2" MIN
6" GYP BD TO BACK
UTILITIES SURFACE IN CHASE
WD FRAMING
B CABINET W/ CHASE
24" OR AS NOTED ON PLANS
COUNTERTOP MATERIAL PER FINISH PLANS
4"
SEE INT ELEV
VARIES, SEE 14/A-10.2
1x4 SPACER
FASTENER
1 1/2" MIN
FOR TYP BASE ATTACHMENT SEE 4/A-10.2
CONC CURB & PL WHERE OCCURS
3"
4"
C BASE CABINET
EXISTING WALL W/ BLOCKING PER D
EXTEND CABINET END PANEL TO CONCEAL CLEATS, CAULK
PLAN VIEW
E TYPICAL EXTENDED SIDE PANEL AT EXPOSED CABINET ENDS
EXISTING WALL W/ DIAGONAL SHEATHING
24" OR PER PLAN
SEE INT. ELEV.
FASTENERS, TOP ROW
BLOCKING PER 1/A-10.1
FASTENERS, AT MIDPOINT
GRAPHICS OF INTERIORS OF CABINET OMITTED, SEE INTERIOR ELEVATIONS; FOR TV CABINET SEE 18/A-10.2
FASTENERS, BOTTOM ROW
3" MAX
4/A-10.2 TYP
D TALL CABINET (>6'-0" TALL)

CASEWORK ATTACHMENT

1 1/2"= 1'-0"

1910 E201100

3

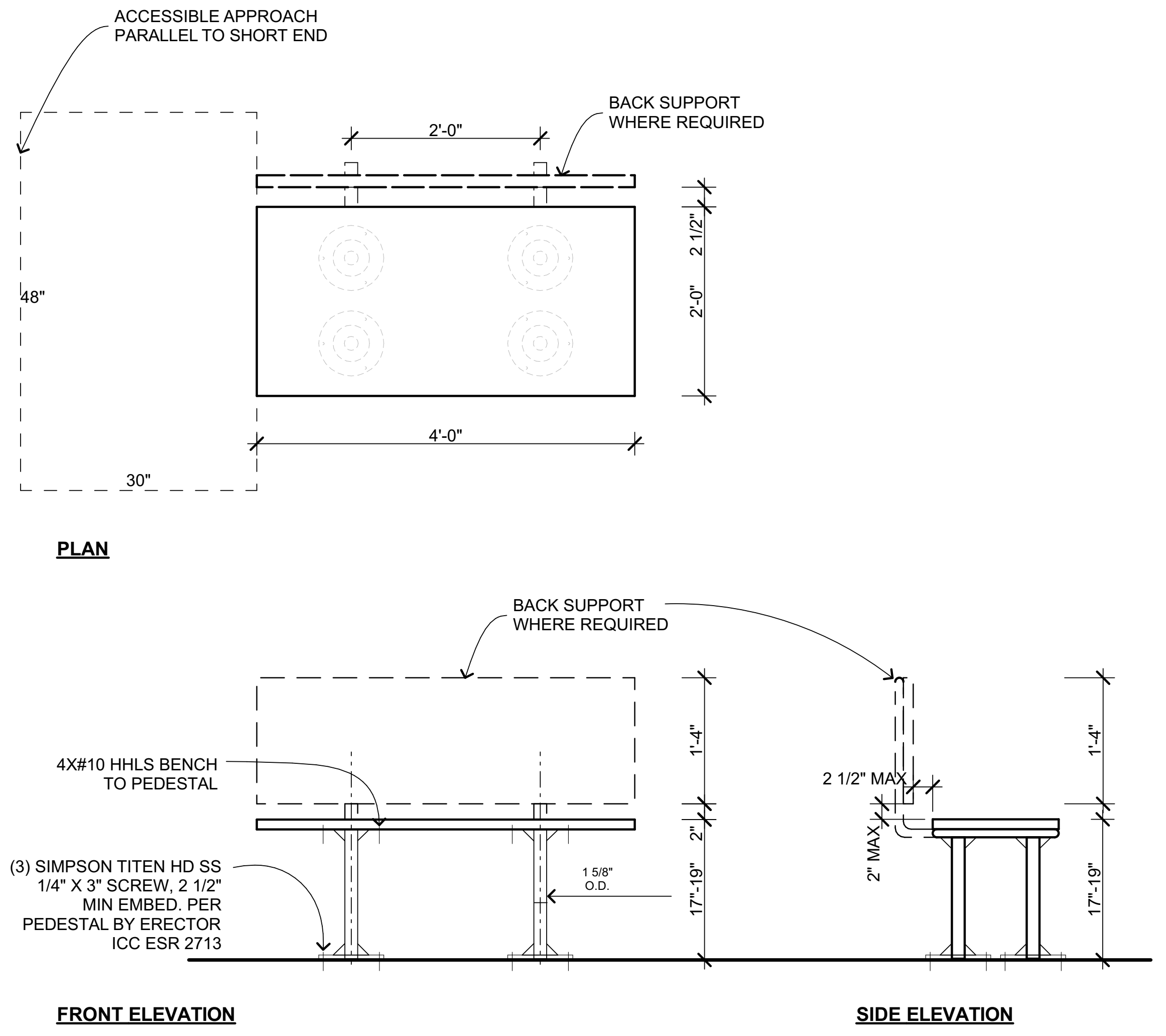

16"
10'-0" A.F.F.
16"
G
12" HIGH LETTER "G" WHITE TEXT WITH CONTRASTING BACKGROUND COLOR TO MATCH (E) BLDG SIGNAGE, TEXT STYLE TO MATCH (E) BLDG DESIGNATION LETTERS
16" SQ.1/4" THICK ACRYLIC SIGN
ELEVATION
2" MIN EMBED
PRE-DRILL HOLE AND FILL WITH APPROVED ADHESIVE
(4) 3/8" SS [OR] GALV VANDAL RESISTANT SCREW, SET IN FILL ADHESIVE, AT EACH CORNER. COUNTERSUNK TO ALLOW A FLUSH INSTALL
SIGNAGE MATERIAL: 1/4" THICK ACRYLIC WITH INTEGRAL COLOR & 1/16" RADIUS ROUND CORNERS
CONCRETE/CMU PRECISION BLOCK WALL
SECTION

SIGN INSTALLATION AT CMU/CONC

N. T. S.

C109 SIGN 305

35


ACCESSIBLE APPROACH PARALLEL TO SHORT END
BACK SUPPORT WHERE REQUIRED
2'-0"
48"
2 1/2"
2'-0"
4'-0"
30"
PLAN
BACK SUPPORT WHERE REQUIRED
4X#10 HHLS BENCH TO PEDESTAL
(3) SIMPSON TITEN HD SS 1/4" X 3" SCREW, 2 1/2" MIN EMBED. PER PEDESTAL BY ERECTOR ICC ESR 2713
1 5/8" O.D.
1'-4"
2"
17"-19"
2 1/2" MAX
2" MAX
1'-4"
17"-19"
FRONT ELEVATION
SIDE ELEVATION

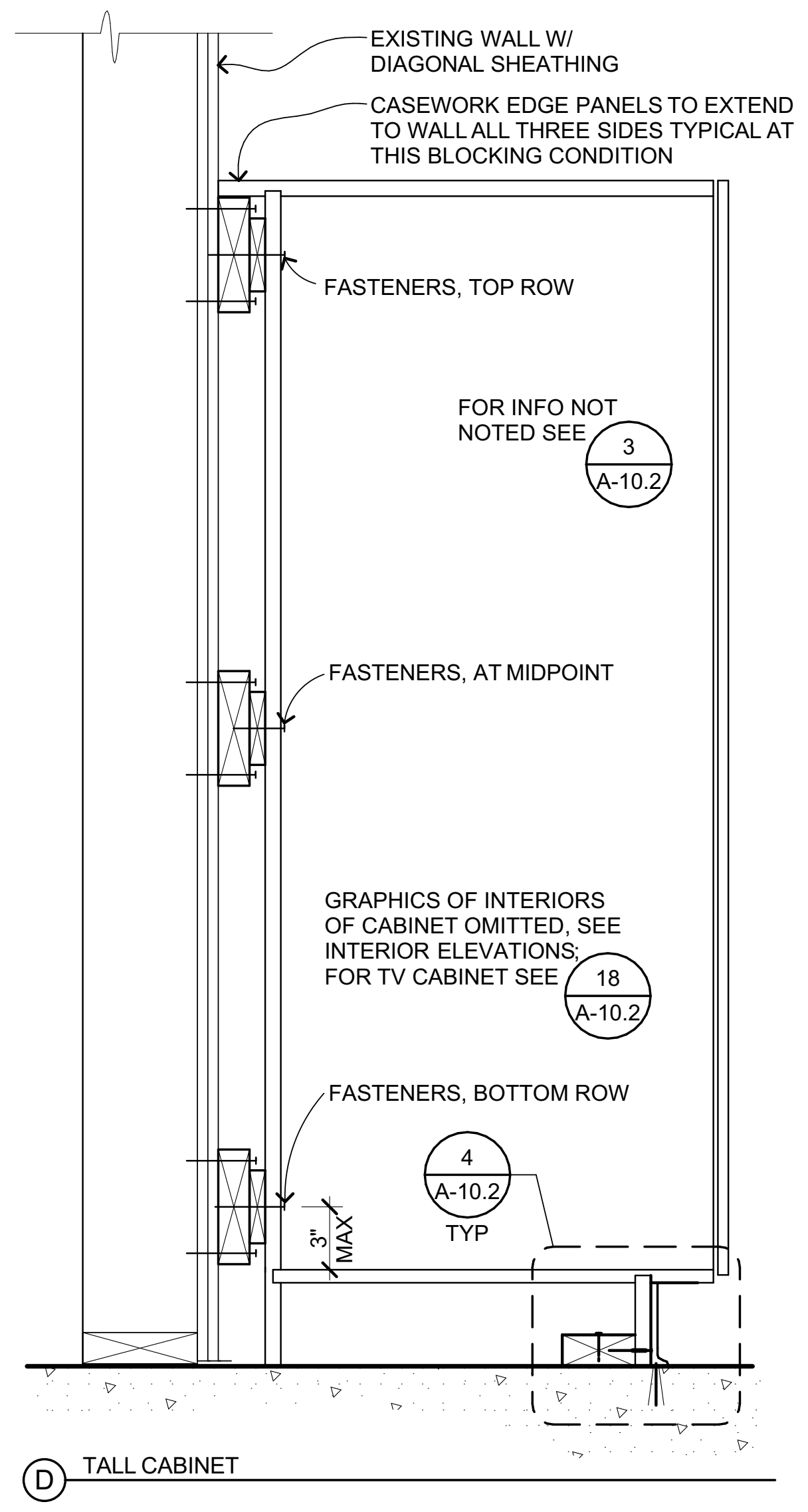
ACCESSIBLE BENCH - LOCKER ROOMS

3/4" = 1'-0"

2019-DTL1

25

TYPICAL FASTENER :
2" MAX FROM **ENDS**. 3 MIN PER CABINET
MAX. 1/3 DISTANCE OF STUD WIDTH TO **EDGE**.
WOOD: #12 F.H.W.S. AT 16" O.C. SET FLUSH.
ALTERNATE FASTENER 1/4" Ø SDS W/ 1-3/4" MIN EMBEDMENT.

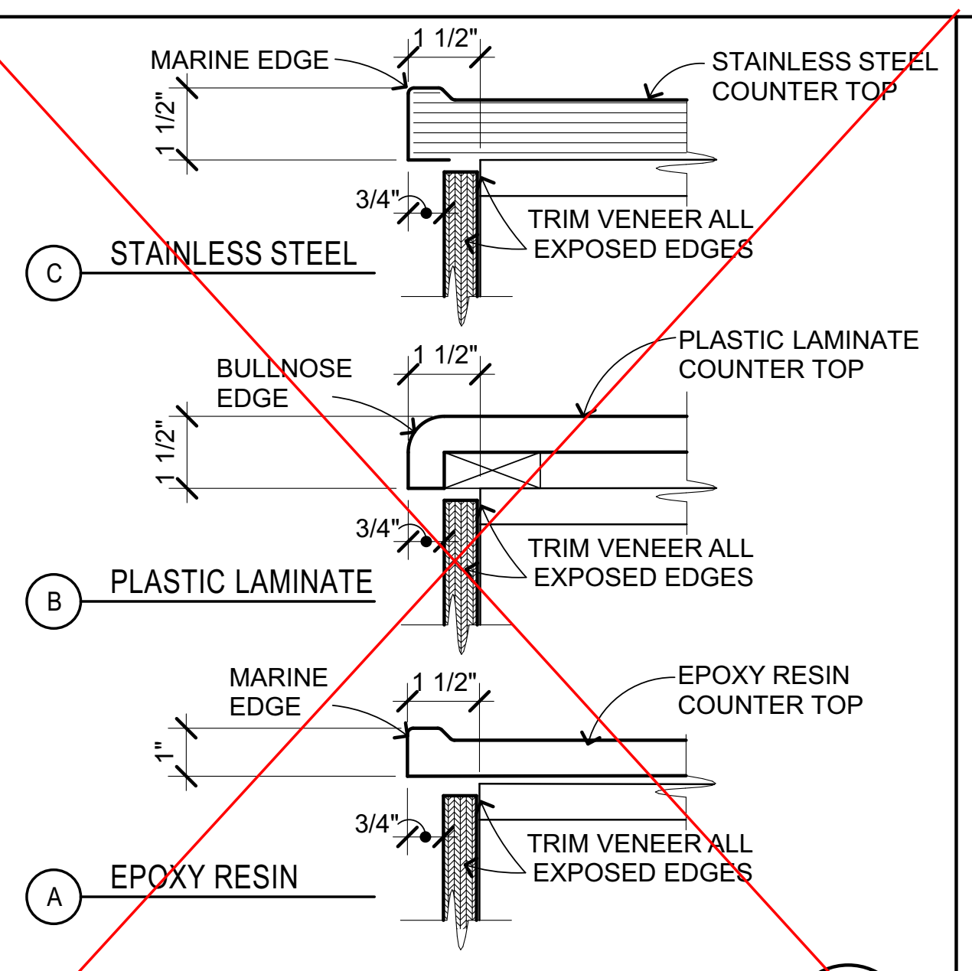

EXISTING WALL W/ DIAGONAL SHEATHING
CASEWORK EDGE PANELS TO EXTEND TO WALL ALL THREE SIDES TYPICAL AT THIS BLOCKING CONDITION
FASTENERS, TOP ROW
FOR INFO NOT NOTED SEE 3/A-10.2
FASTENERS, AT MIDPOINT
GRAPHICS OF INTERIORS OF CABINET OMITTED, SEE INTERIOR ELEVATIONS; FOR TV CABINET SEE 18/A-10.2
FASTENERS, BOTTOM ROW
4/A-10.2 TYP
3" MAX
D TALL CABINET

CASEWORK ALT ATTACHMENT

1 1/2"= 1'-0"

1910 E201100.1

20

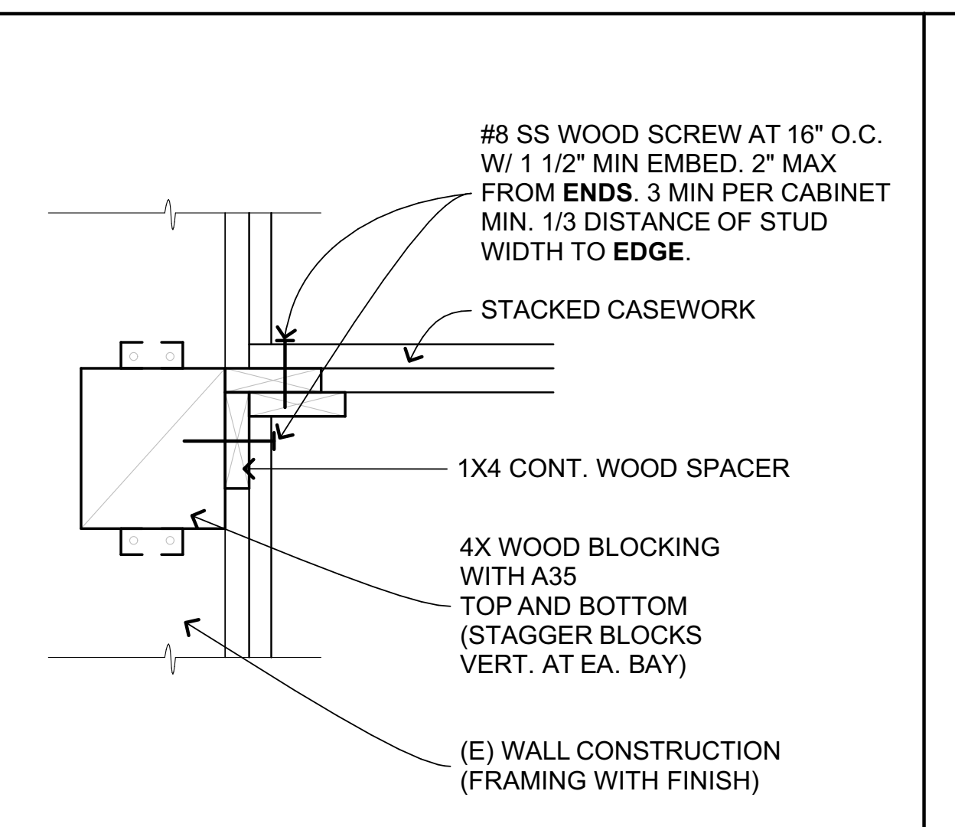


COUNTER EDGE TYPES

3" = 1'-0"

1910 E201202

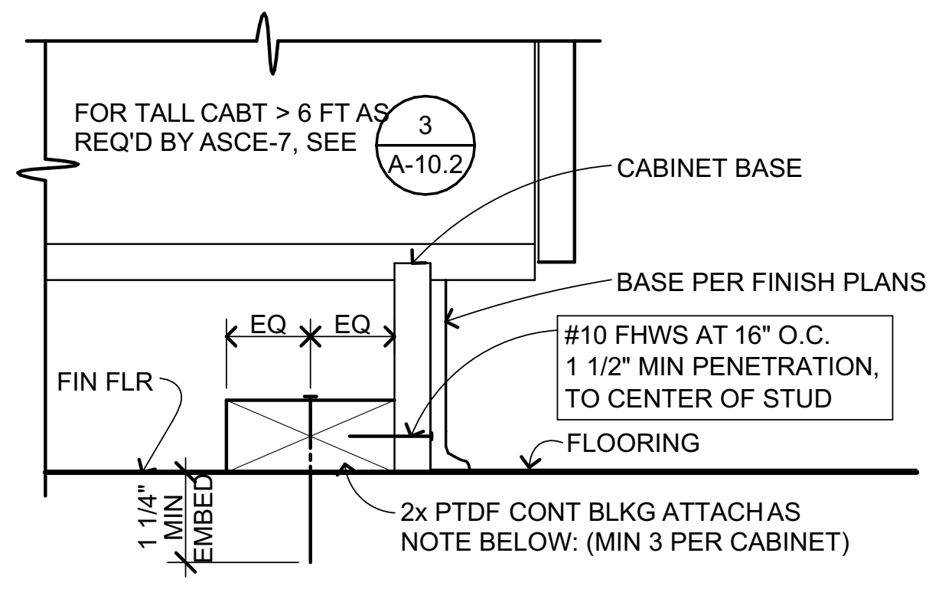
14


#8 SS WOOD SCREW AT 16" O.C. W/ 1 1/2" MIN EMBED. 2" MAX FROM ENDS. 3 MIN PER CABINET MIN. 1/3 DISTANCE OF STUD WIDTH TO EDGE.
STACKED CASEWORK
1X4 CONT. WOOD SPACER
4X WOOD BLOCKING WITH A35 TOP AND BOTTOM (STAGGER BLOCKS VERT. AT EA. BAY)
(E) WALL CONSTRUCTION (FRAMING WITH FINISH)

(MID)ANCHORAGE AT CASEWORK

1 1/2"= 1'-0"

9


FOR TALL CABT > 6 FT AS REQ'D BY ASCE-7, SEE 3/A-10.2
CABINET BASE
BASE PER FINISH PLANS
EQ
EQ
FIN FLR
#10 FHWS AT 16" O.C. 1 1/2" MIN PENETRATION, TO CENTER OF STUD
FLOORING
1 1/4" MIN EMBED
2x PTDF CONT BLKG ATTACH AS NOTE BELOW: (MIN 3 PER CABINET)

AT CONC FLOOR: HILTI X-U, .157 DIA X 2 7/8" LENGTH POWDER DRIVEN PIN ANCHOR (ICC ESR 2269) AT 16" O.C., MIN 3 PER CABINET

BASE CABINET FLOOR ATTACHMENT

3" = 1'-0"

E201103

4

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DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

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JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: AUGUST 25, 2020

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD , CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

BID SET 2026

4.15.2026

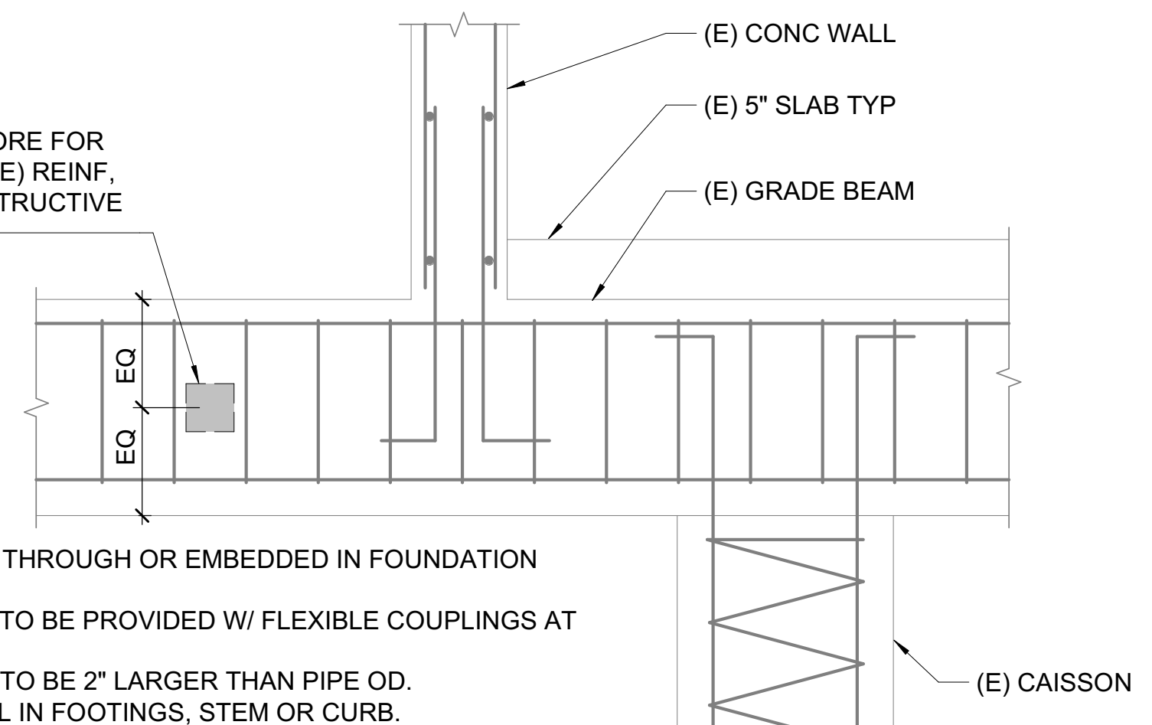
SHEET TITLE

DETAILS

SHEET NUMBER

A-10.2

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/11/2025;3:39 PM


(E) CONC WALL
(E) 5" SLAB TYP
(E) GRADE BEAM
EXTRACT 4"Ø MAX CONC CORE FOR (N) PIPE. DO NOT DAMAGE (E) REINF, LOCATE REINF BY NONDESTRUCTIVE MEANS PRIOR TO DEMO
EQ
EQ
(E) CAISSON

NOTES:

1. "PIPE" = ANY PENETRATION THROUGH OR EMBEDDED IN FOUNDATION STRUCTURE.
2. "PIPE" EMBEDDED IN CONC TO BE PROVIDED W/ FLEXIBLE COUPLINGS AT ENTRY/EXIT POINTS.
3. SLEEVES SHALL BE PVC, ID TO BE 2" LARGER THAN PIPE OD.
4. NO "PIPE" TO RUN PARALLEL IN FOOTINGS, STEM OR CURB.
5. PVC CONDUIT ("PIPE") EMBEDDED IN CURB/STEM MAY BE WIRE TIED TO HORIZ REINF.
6. WRAPPED PIPES SHALL HAVE 1" CLEAR FROM WRAPPING TO REINF. SLEEVED PIPES SHALL HAVE 1" MINIMUM CLEAR TO REINF. WRAP W/ ⅛" FOAM SHEET, (8) LAYERS MINIMUM. CONCRETE COVER TO BE 1" MINIMUM.
7. CLEARANCE BETWEEN "PIPES" TO BE THE LARGER OF 2x THE PENETRATION DIAMETER (LARGER OF (2) ADJACENT PENETRATIONS) AND 3" MIN TYP.
8. NOTIFY ENGINEER FOR REPAIRS IF (E) REINF STEEL IS DAMAGED IN CONC REMOVAL.
9. ALL PIPES THOUGH FOOTINGS TO BE WRAPPED OR SLEEVED.

8 PIPE THROUGH EXISTING FOOTING

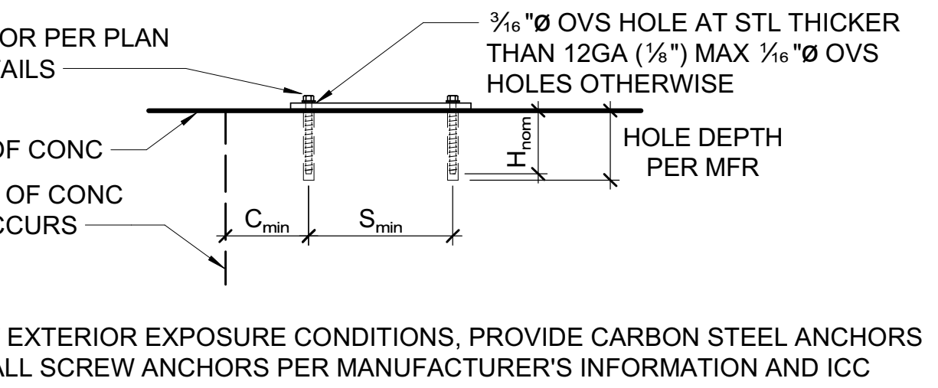
3/4" = 1'-0"

CARBON SCREW ANCHOR IN 2500 PSI MIN CONCRETE

ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H_{nom}	MINIMUM EDGE DIST C_{min}	MINIMUM SPCG S_{min}	MINIMUM CONCRETE THICKNESS H_{min}	INSTALL & TEST TORQUE (FT-LB)	MAXIMUM INSTALL TORQUE (FT-LB)
SIMPSON TITEN HD (ICC-ESR 2713)	¼"	1⅝"	1½"	1½"	3¼"	10	24
	⅜"	2½"	1¾"	3"	4"	10	50
	½"	3¼"	1¾"	3"	5"	10	65
	⅝"	4"	1¾"	3"	6"	10	100
	¾"	5½"	1¾"	3"	8¾"	20	150
HILTI KH-EZ (ICC-ESR 3027)	¼"	1⅝"	1½"	3"	3¼"	10	18
	⅜"	2½"	1½"	3"	4"	10	40
	½"	3"	1¾"	3"	4¾"	10	45
	⅝"	3¼"	1¾"	4"	5"	10	85
	¾"	4"	1¾"	4"	6"	20	95

STAINLESS STEEL SCREW ANCHOR IN 2500 PSI MIN CONCRETE

ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H_{nom}	MINIMUM EDGE DIST C_{min}	MINIMUM SPCG S_{min}	MINIMUM CONCRETE THICKNESS H_{min}	INSTALL & TEST TORQUE (FT-LB)	MAXIMUM INSTALL TORQUE (FT-LB)
SIMPSON TITEN HDSS (IAPMO UES ER-493)	⅜"	2½"	1¾"	3"	4"	10	40
	½"	3¼"	1¾"	4"	5"	10	70
	⅝"	4"	1¾"	3"	6"	10	85
	¾"	5½"	1¾"	3"	8¾"	20	150


ANCHOR PER PLAN & DETAILS
³⁄₁₆"Ø OVS HOLE AT STL THICKER THAN 12GA (⅛") MAX ¹⁄₁₆"Ø OVS HOLES OTHERWISE
TOP OF CONC
HOLE DEPTH PER MFR
EDGE OF CONC AS OCCURS
Hnom
Cmin
Smin

NOTES:

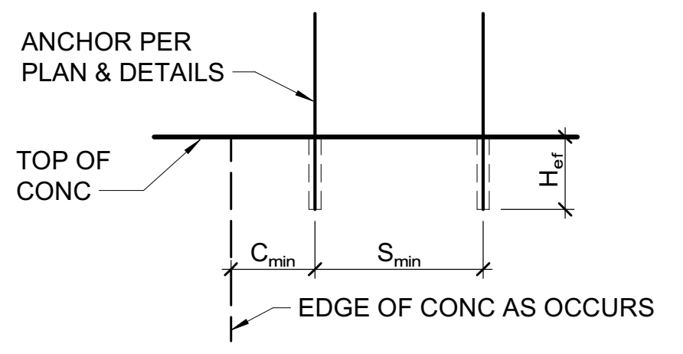
1. EXCEPT AT EXTERIOR EXPOSURE CONDITIONS, PROVIDE CARBON STEEL ANCHORS UNO. INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

14 SCREW ANCHOR IN CONCRETE

3/4" = 1'-0"

ADHESIVE ANCHOR IN 2500 PSI MIN CONCRETE

ADHESIVE TYPE	ANCHOR THRD ROD	ANCHOR REBAR	PILOT HOLE	MIN EMBED UNO H_{ef}	MIN EDGE DISTANCE C_{min}	MIN SPCG S_{min}	MIN CONC DEPTH H_{min}
SIMPSON SET-3G (ICC-ESR 4057)	-	#3	½"Ø	3"	1¾"	3"	H_{ef} + 1¼"
	-	#4	⅝"Ø	4"	1¾"	3"	H_{ef} + 1¼"
	-	#5	¾"Ø	5"	1¾"	3"	H_{ef} + 1½"
	⅜"Ø	-	⁷⁄₁₆"Ø	3"	1¾"	3"	H_{ef} + 1¼"
	½"Ø	-	⁹⁄₁₆"Ø	4"	1¾"	3"	H_{ef} + 1¼"
	⅝"Ø	-	¹¹⁄₁₆"Ø	5"	1¾"	3"	H_{ef} + 1⅜"
	¾"Ø	#6	⅞"Ø	6"	1¾"	3"	H_{ef} + 1¾"
	⅞"Ø	#7	1"Ø	7"	1¾"	3"	H_{ef} + 2"
	1"Ø	#8	1⅛"Ø	8"	1¾"	3"	H_{ef} + 2¼"
	1¼"Ø	#10	1⅜"Ø	10"	2¾"	6"	H_{ef} + 2¾"
HILTI HIT-HY 200R V3 (ICC-ESR 4868)	⅜"Ø	N/A	⁷⁄₁₆"Ø	3"	1¾"	1⅞"	H_{ef} + 1¼"
	N/A	#3	½"Ø	3"	1¾"	1⅞"	
	½"Ø	N/A	⁹⁄₁₆"Ø	4"	1¾"	2½"	
	N/A	#4	⅝"Ø	4"	1¾"	2½"	
	⅝"Ø	#5	¾"Ø	5"	1¾"	3⅛"	H_{ef} + 1½"
	¾"Ø	#6	⅞"Ø	6"	1¾"	3¾"	H_{ef} + 1¾"
	⅞"Ø	#7	1"Ø	7"	1¾"	4⅜"	H_{ef} + 2"
	1"Ø	#8	1⅛"Ø	8"	1¾"	5"	H_{ef} + 2¼"
	N/A	#9	1⅜"Ø	9"	1¾"	5⅝"	H_{ef} + 2¾"
	1¼"Ø	N/A	1⅜"Ø	10"	1¾"	6¼"	
	N/A	#10	1½"Ø	10"	1¾"	6¼"	H_{ef} + 3"

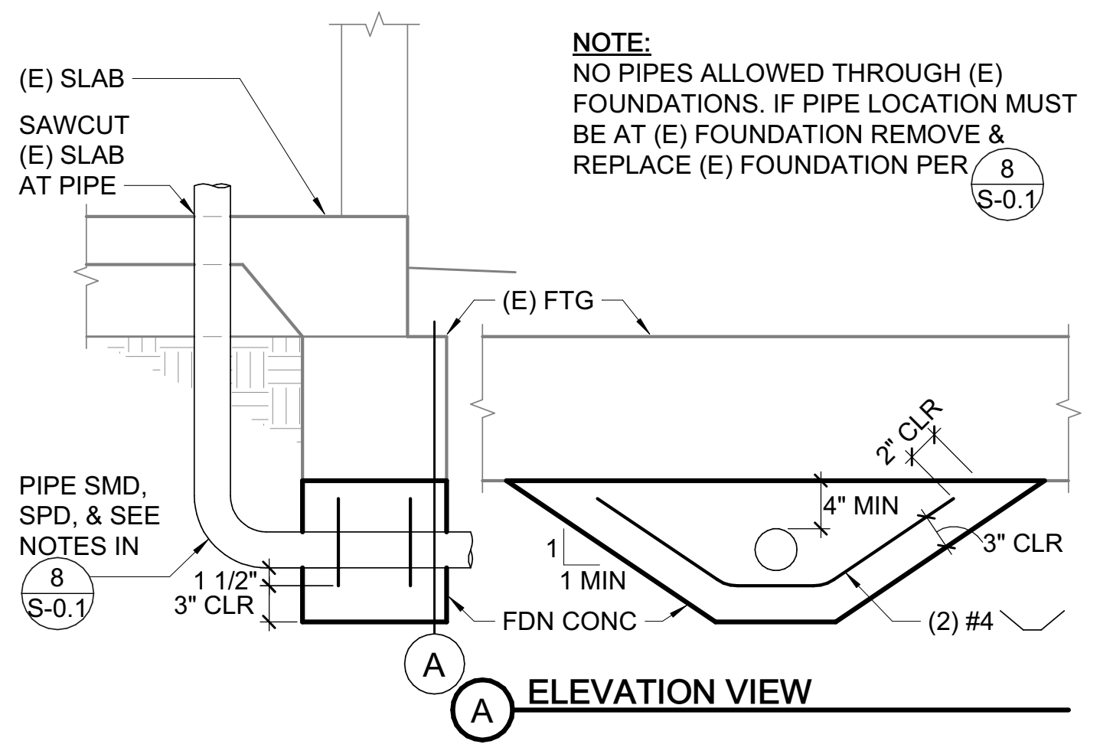


NOTES:

1. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND ADHESIVE INJECTION. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5. SEE DRAWINGS FOR SPECIFIC TENSION TEST LOADS FOR ANCHORS.

15 ADHESIVE ANCHOR IN CONCRETE

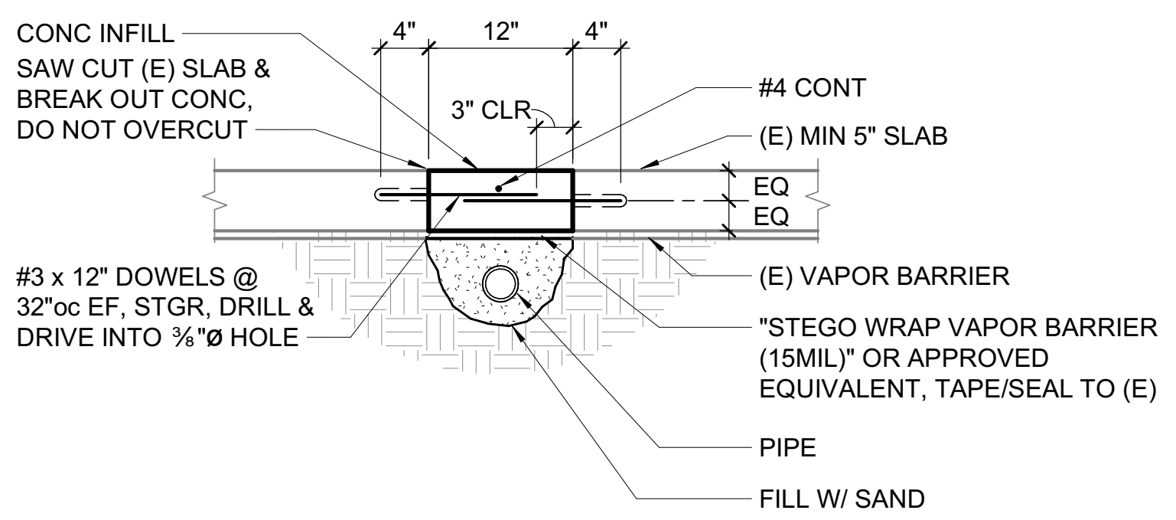
3/4" = 1'-0"



NOTE:
NO PIPES ALLOWED THROUGH (E) FOUNDATIONS. IF PIPE LOCATION MUST BE AT (E) FOUNDATION REMOVE & REPLACE (E) FOUNDATION PER 8/S-0.1

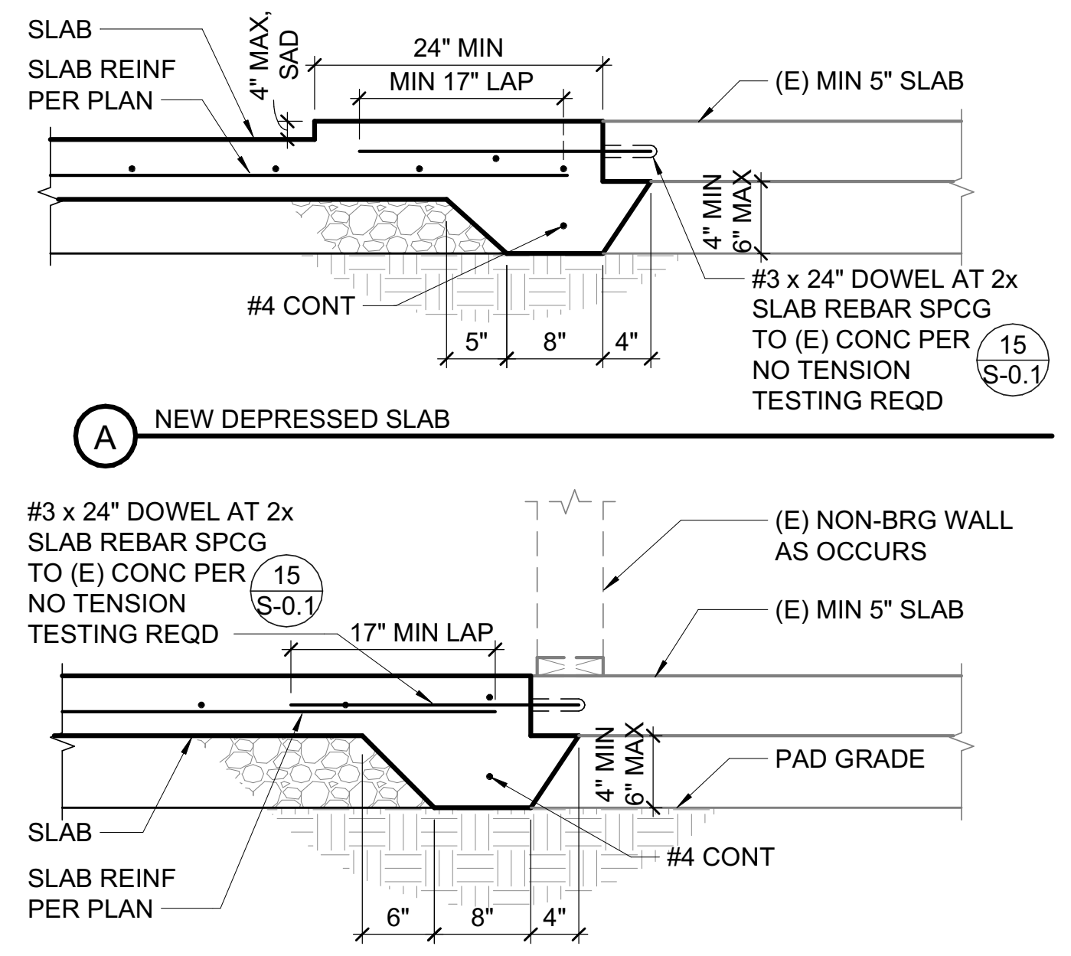
9 NEW PIPE AT EXISTING FOUNDATION

3/4" = 1'-0"


CONC INFILL
SAW CUT (E) SLAB & BREAK OUT CONC, DO NOT OVERCUT
4"
12"
4"
3" CLR
#4 CONT
(E) MIN 5" SLAB
EQ
EQ
#3 x 12" DOWELS @ 32"oc EF, STGR, DRILL & DRIVE INTO ⅜"Ø HOLE
(E) VAPOR BARRIER
"STEGO WRAP VAPOR BARRIER (15MIL)" OR APPROVED EQUIVALENT, TAPE/SEAL TO (E)
PIPE
FILL W/ SAND

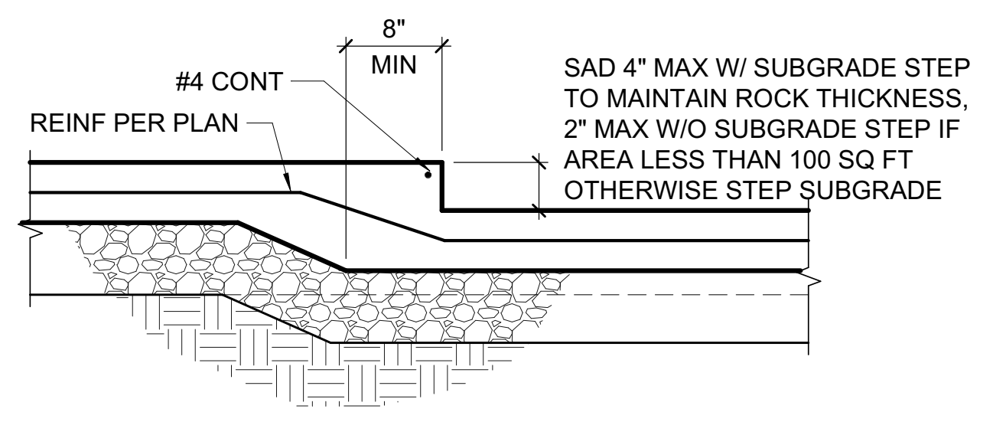
10 NEW PIPE AT EXISTING SLAB

3/4" = 1'-0"



11 NEW SLAB TO EXISTING SLAB

3/4" = 1'-0"


8" MIN
#4 CONT
REINF PER PLAN
SAD 4" MAX W/ SUBGRADE STEP TO MAINTAIN ROCK THICKNESS, 2" MAX W/O SUBGRADE STEP IF AREA LESS THAN 100 SQ FT OTHERWISE STEP SUBGRADE

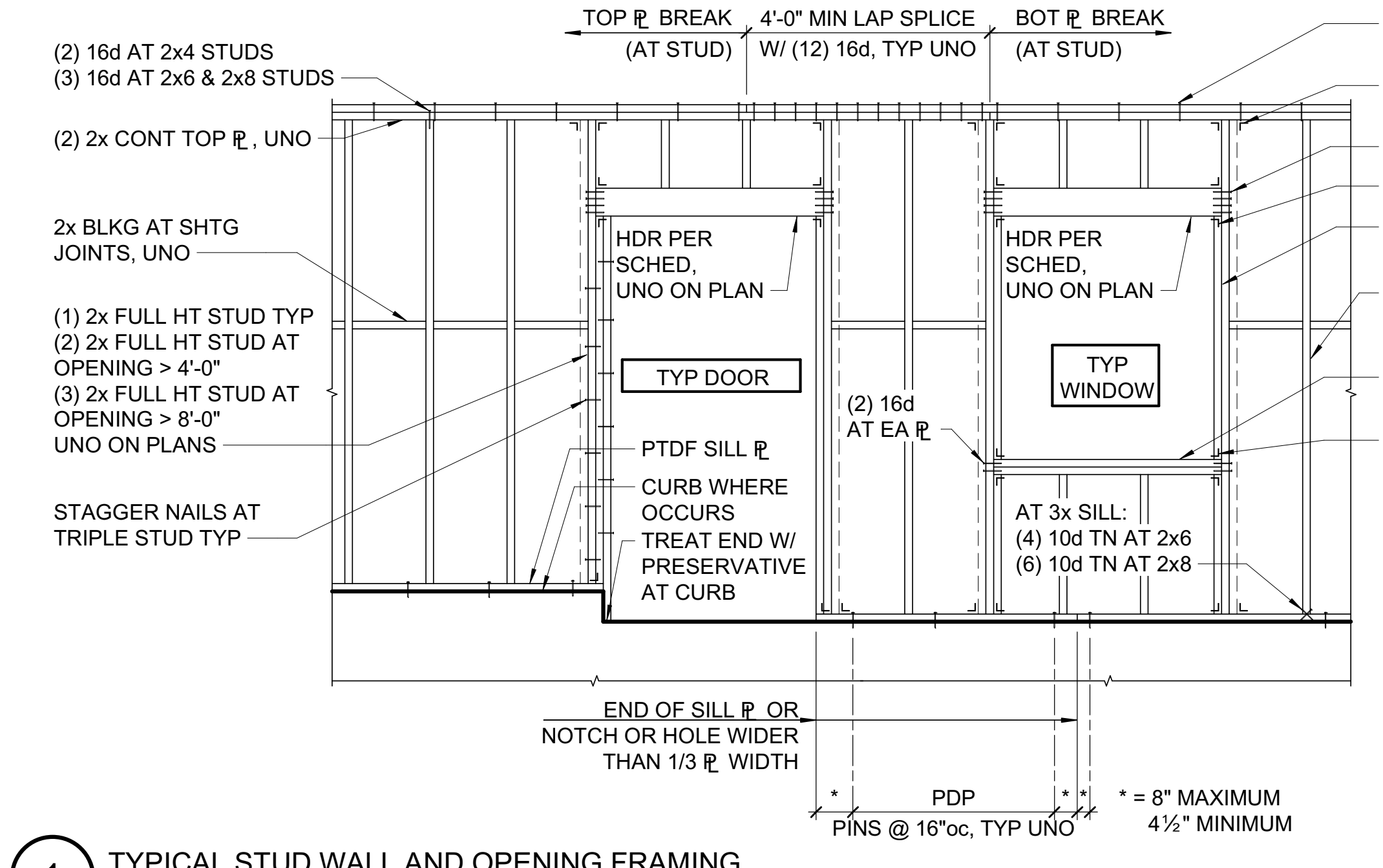
12 DEPRESSED SLAB - 4" MAX

3/4" = 1'-0"

RIM JOIST/BLKG TO TOP ⅊, TOE NAIL	10d @ 6"oc
TRUSSES, JOISTS OR RAFTERS AT ALL BEARING POINTS	
TOE NAILS EACH SIDE	(2) 10d
TRUSSES, JOISTS OR RAFTERS TO SIDE OF STUDS	
EIGHT (8) INCH JOISTS OR LESS	(3) 16d
FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST	(1) 16d
BLOCKING BETWEEN JOISTS OR RAFTERS:	
TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END	(2) 10d
TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE	(2) 10d
BLOCKING BETWEEN STUDS, EACH END TOE NAILS	(2) 10d OR (2) 16d
BRIDGING TO JOIST, TOE NAIL EACH END	(2) 8d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	(2) 16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16"oc
SOLE PLATE TO JOIST OR BLOCKING AT	
BRACED WALL PANELS	(3) 16d @ 16"oc
TOP PLATE TO STUD, END NAIL	(2) 16d
STUD TO SOLE PLATE, TOE NAIL	(4) 8d
DOUBLE STUDS AT EXTERIOR WALLS, FACE NAIL	16d @ 12"oc
DOUBLE STUDS, FACE NAIL	16d @ 24"oc
DOUBLE TOP PLATES, FACE NAIL	16d @ 12"oc
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(3) 16d
CONTINUOUS HEADER, TWO PIECES	16d @ 16"oc ALONG EACH EDGE
DOUBLE TOP PLATE LAP AT CORNER	(3) 16d
CONTINUOUS HEADER TO STUD, TOE NAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
BUILT-UP CORNER STUDS	16d @ 12"oc
POST TO SILL/SOLE/TOP PLATE, EACH SIDE TOE NAIL	(4) 10d

13 NAILING SCHEDULE

3/4" = 1'-0"


TOP ⅊ BREAK (AT STUD)
4'-0" MIN LAP SPLICE W/ (12) 16d, TYP UNO
BOT ⅊ BREAK (AT STUD)
(2) 16d AT 2x4 STUDS
(3) 16d AT 2x6 & 2x8 STUDS
(2) 2x CONT TOP ⅊, UNO
2x BLKG AT SHTG JOINTS, UNO
(1) 2x FULL HT STUD TYP
(2) 2x FULL HT STUD AT OPENING > 4'-0"
(3) 2x FULL HT STUD AT OPENING > 8'-0"
UNO ON PLANS
STAGGER NAILS AT TRIPLE STUD TYP
HDR PER SCHED, UNO ON PLAN
TYP DOOR
PTDF SILL ⅊
CURB WHERE OCCURS
TREAT END W/ PRESERVATIVE AT CURB
(2) 16d AT EA ⅊
HDR PER SCHED, UNO ON PLAN
TYP WINDOW
AT 3x SILL:
(4) 10d TN AT 2x6
(6) 10d TN AT 2x8
NAILS TO MATCH LAP SPLICE, ES OF SPLICE (16d @ 12"oc MIN)
A35 ONE SIDE T&B AT EXT OPENINGS ≤ 6'-0"
A35 ES T&B AT OPENINGS > 6'-0"
(4) 16d, TYP
A35 T&B TYP AT EXT OPENING ≥ 4'-0"
(1) 2x TRIMMER, TYP
(2) 2x TRIMMER AT OPENING > 6'-0", UNO ON PLANS
NOTCHING OF STUDS NOT PERMITTED. FOR HOLES IN STUDS SEE 5/S-0.1
DBL ⅊ AT OPENINGS > 4'-0"
NO SPLICES ALLOWED
A35 T&B TYP AT EXT OPENING ≥ 4'-0"
END OF SILL ⅊ OR NOTCH OR HOLE WIDER THAN 1/3 ⅊ WIDTH
*
PDP
*
*
PINS @ 16"oc, TYP UNO
* = 8" MAXIMUM
4½" MINIMUM

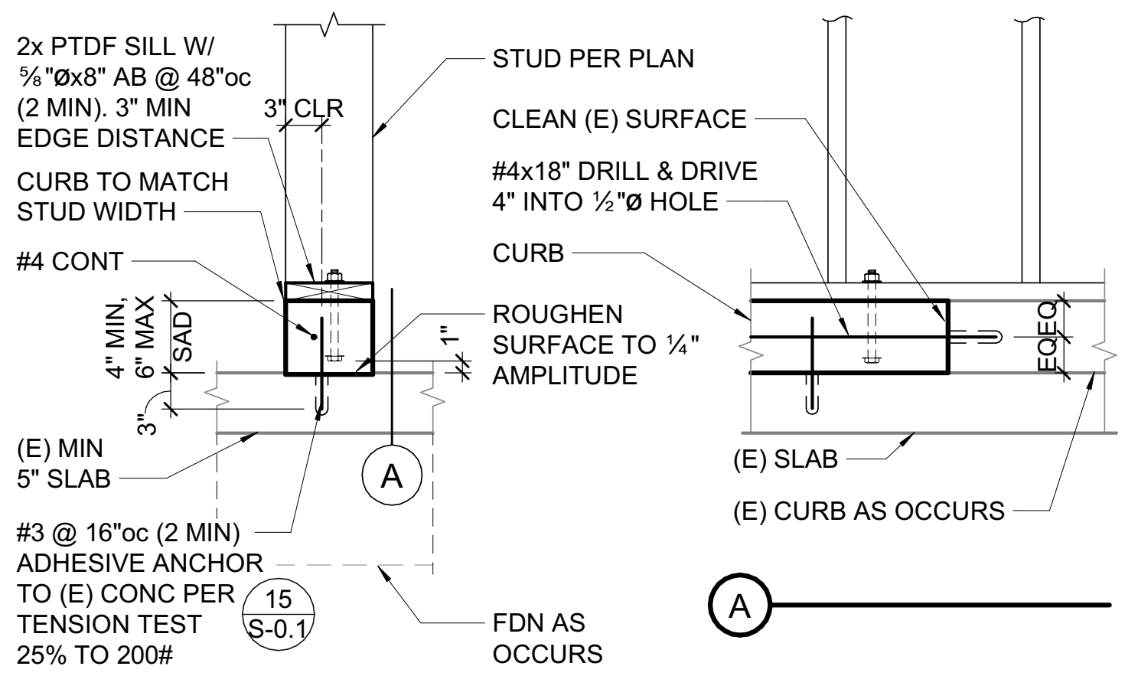
HEADER SCHEDULE

MAX SPAN	NOMINAL HEADER BRG	NOMINAL HEADER NON-BRG
6'-0"	4x8 OR 6x6	4x6 OR 6x6
8'-0"	4x10 OR 6x8	4x8 OR 6x6
10'-0"	4x12 OR 6x10	4x10 OR 6x8
12'-0"	6x12	4x10 OR 6x8

1. HEADERS TO MATCH WIDTH OF WALL STUDS.
2. HEADERS TO BE DF #1, MIN UNO.
3. FOR LARGER OPENINGS, SEE PLANS.
4. HEADER MAY BE USED AS LOWER TOP ⅊ AS REQD BY OPENING HEIGHT.
5. AT 2x8 WALLS, USE 6x HEADER + 2x + SHIM OR 6¾" GLB + SHIM.

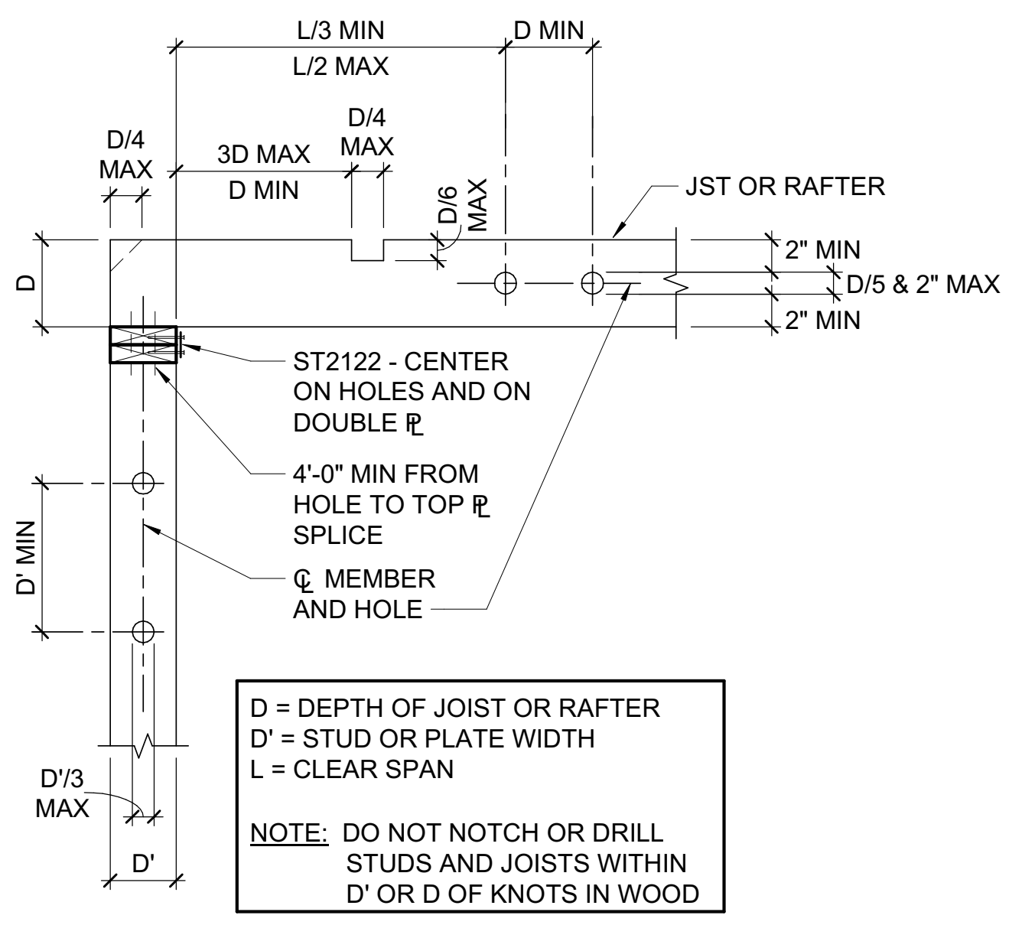
1 TYPICAL STUD WALL AND OPENING FRAMING

3/8" = 1'-0"


2x PTDF SILL W/ ⅝"Øx8" AB @ 48"oc (2 MIN). 3" MIN EDGE DISTANCE
3" CLR
CURB TO MATCH STUD WIDTH
#4 CONT
4" MIN, 6" MAX SAD
3"
1"
(E) MIN 5" SLAB
#3 @ 16"oc (2 MIN) ADHESIVE ANCHOR TO (E) CONC PER 15/S-0.1 TENSION TEST 25% TO 200#
STUD PER PLAN
ROUGHEN SURFACE TO ¼" AMPLITUDE
A
FDN AS OCCURS
CLEAN (E) SURFACE
#4x18" DRILL & DRIVE 4" INTO ½"Ø HOLE
CURB
EQ EQ
(E) SLAB
(E) CURB AS OCCURS
A

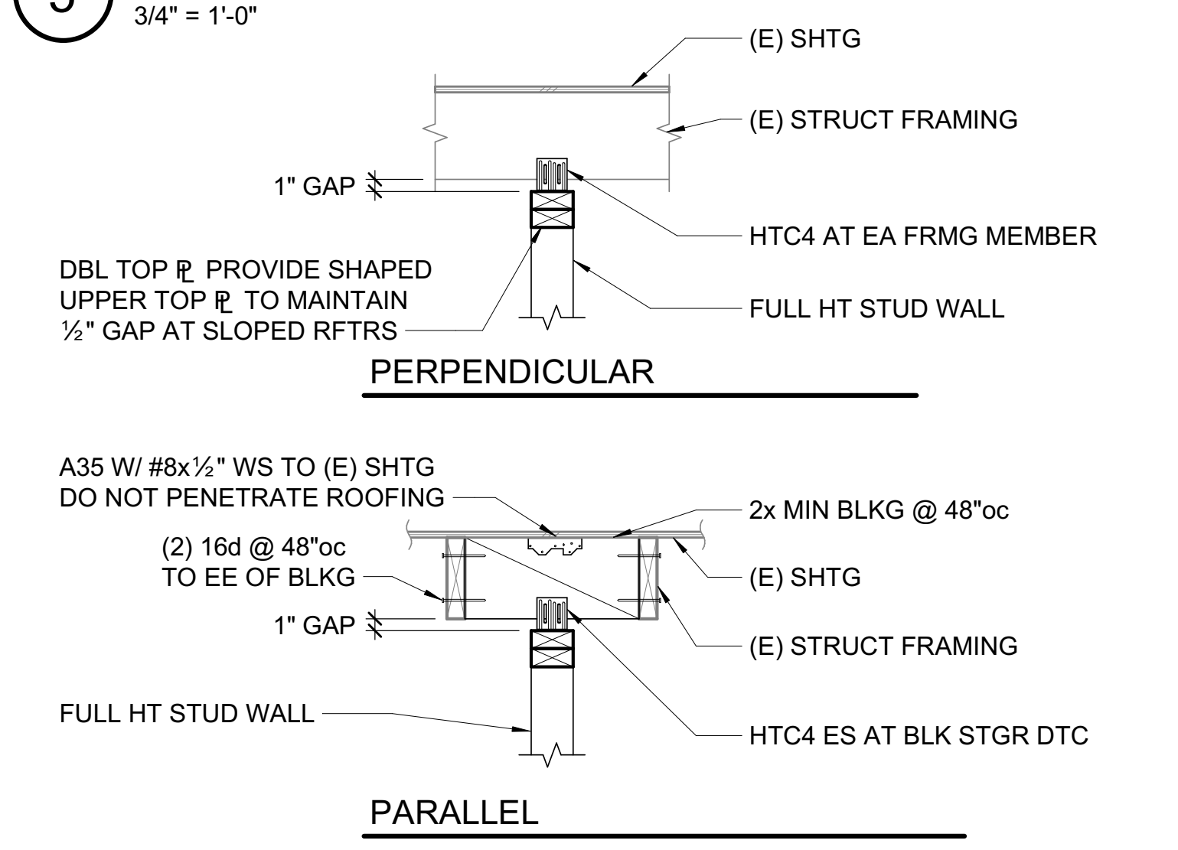
4 NEW CURB AT EXISTING SLAB

3/4" = 1'-0"


L/3 MIN
L/2 MAX
D MIN
D/4 MAX
3D MAX
D MIN
D/4 MAX
D/6 MAX
JST OR RAFTER
D
2" MIN
D/5 & 2" MAX
2" MIN
ST2122 - CENTER ON HOLES AND ON DOUBLE ⅊
4'-0" MIN FROM HOLE TO TOP ⅊ SPLICE
℄ MEMBER AND HOLE
D' MIN
D'/3 MAX
D'
D = DEPTH OF JOIST OR RAFTER
D' = STUD OR PLATE WIDTH
L = CLEAR SPAN
NOTE: DO NOT NOTCH OR DRILL STUDS AND JOISTS WITHIN D' OR D OF KNOTS IN WOOD

5 HOLES AND NOTCHES IN WOOD STUDS, JOISTS, AND PLATES

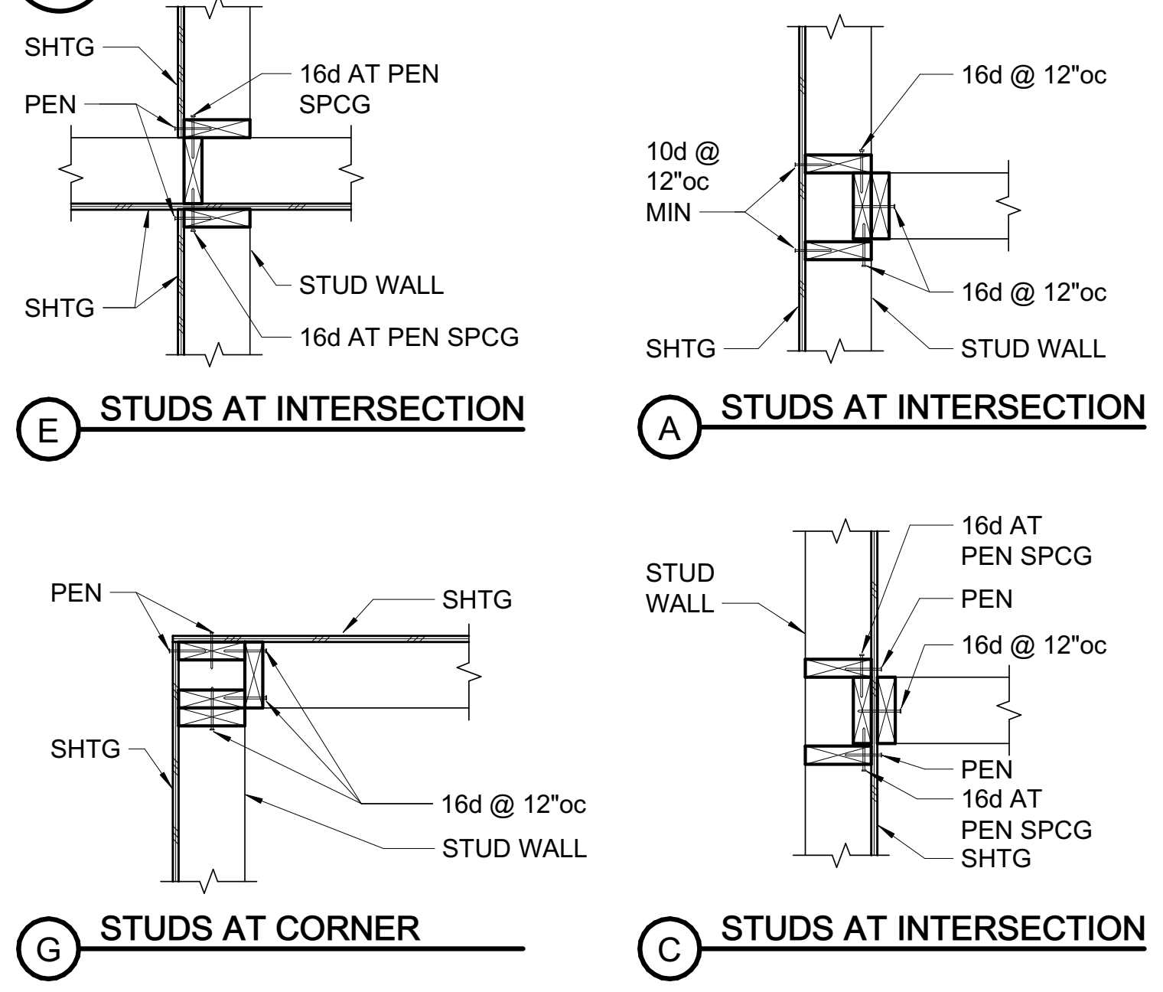
3/4" = 1'-0"



NOTE:
INSTALL SDPW AT ℄ OF BLOCKING OR STRUCTURAL FRAMING AND WITHIN MIDDLE HALF OF DOUBLE TOP PLATES.

6 TYPICAL NON-BEARING STUD WALL DETAILS

3/4" = 1'-0"

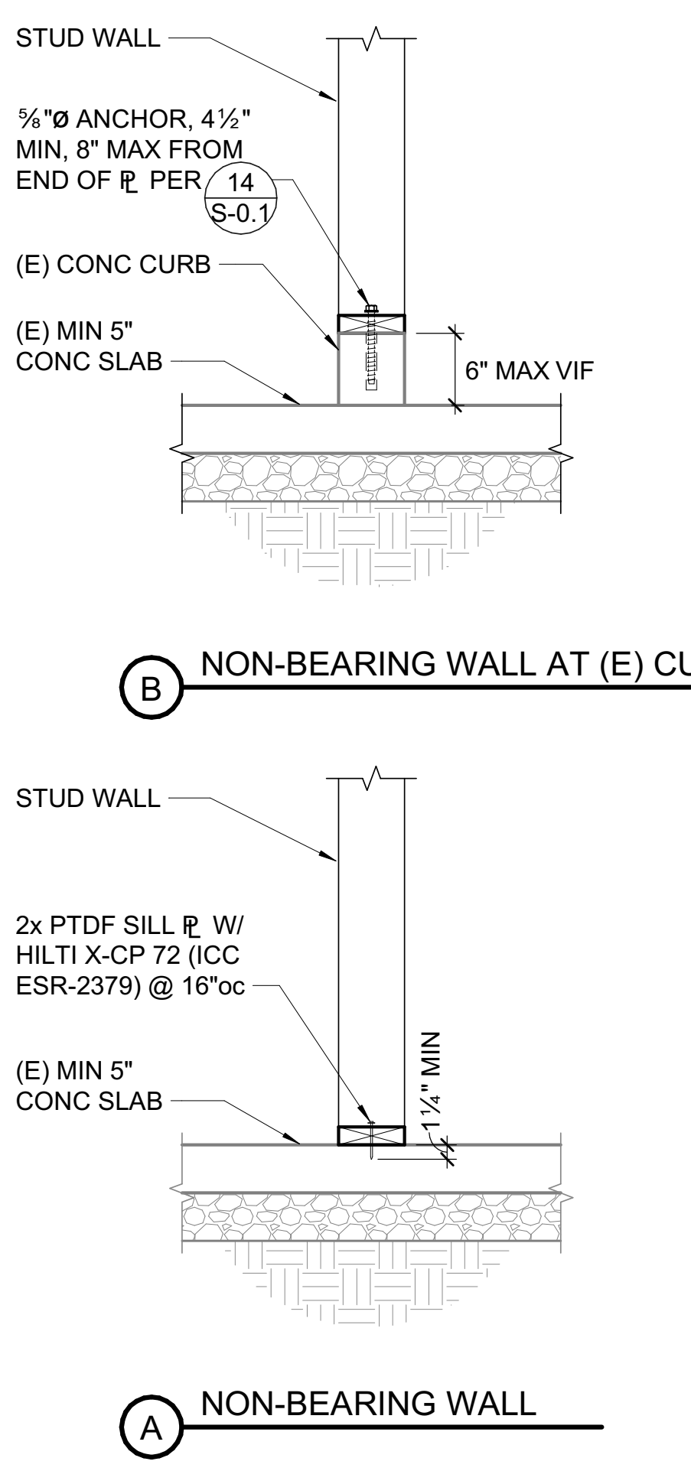


7 TYPICAL PLAN VIEW OF STUD WALL INTERSECTIONS

3/4" = 1'-0"

2 NOT USED

3/8" = 1'-0"


STUD WALL
⅝"Ø ANCHOR, 4½" MIN, 8" MAX FROM END OF ⅊ PER 14/S-0.1
(E) CONC CURB
(E) MIN 5" CONC SLAB
6" MAX VIF
B NON-BEARING WALL AT (E) CURB
STUD WALL
2x PTDF SILL ⅊ W/ HILTI X-CP 72 (ICC ESR-2379) @ 16"oc
(E) MIN 5" CONC SLAB
1¼" MIN
A NON-BEARING WALL

3 NON BEARING WALLS AT (E) SLAB/FOOTING

3/4" = 1'-0"

ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
AC	AIR CONDITIONING
ADJ	ADJACENT
ADDL	ADDITIONAL
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT
AYC	ALASKAN YELLOW CEDAR
@	AT
BF	BRACED FRAME
BLDG	BUILDING
BLK/BLKG	BLOCK/BLOCKING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAIL
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BU	BUILT-UP
BYND	BEYOND
C	AMERICAN STANDARD CHANNEL
CA	CALIFORNIA
CANT	CANTILEVER
CB	CARRIAGE BOLT
CFS	COLD FORMED STEEL
CIP	CAST IN PLACE
CGL	CERTIFIED GLUED LUMBER
CJ	CONTROL JOINT
℄	CENTERLINE
CJP	COMPLETE JOINT PENETRATION
CLG	CEILING
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
COORD	COORDINATE/ COORDINATION
CMU	CONCRETE MASONRY UNIT
CSK	COUNTERSINK
CW	CUT WASHER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DCW	DEMAND CRITICAL WELD
DF	DOUGLAS FIR
DIA or Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DJ	DOWEL JOINT
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
ELEC	ELECTRICAL
ELEV	ELEVATOR/ELEVATION
EMBED	EMBEDMENT
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
(E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FIN	FINISH
FG	FINISH GRADE
FLR	FLOOR
FN	FACE NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRMG	FRAMING
FS	FAR SIDE
FTG	FOOTING
GA	GAGE or GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GL	GRIDLINE
GLB	GLUE LAMINATED BEAM
GR	GRADE
HD	HOLD DOWN
HDG	HOT-DIP GALVANIZED
HDR	HEADER
HGR	HANGER
HK	HOOK
HORIZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
HSG	HIGH STRENGTH GROUT
HSH	HORIZONTAL SLOTTED HOLE
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER
IJ	I SHAPED WOOD BUILT UP TRUSS
INT	INTERIOR
JST	JOIST
JT	JOINT
KP	KING POST
L	STEEL ANGLE
Lb or #	POUND(s)
LGMF	LIGHT GAGE METAL FRAMING
LGMFC	LIGHT GAGE METAL FRAMING CONTRACTOR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LS	LAG SCREW
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
LWC	LIGHTWEIGHT CONCRETE
MAX	MAXIMUM
MB	MACHINE BOLT
MBM	METAL BUILDING MANUFACTURER
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MEZZ	MEZZANINE
MF	MOMENT FRAME
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MIW	MALLEABLE IRON WASHER
MTL	METAL
MU	MECH UNIT
(N)	NEW
N/A	NOT APPLICABLE
NO or #	NUMBER
NS	NEAR SIDE
NSG	NON-SHRINK GROUT
NTS	NOT TO SCALE
NWC	NORMAL-WEIGHT CONCRETE
O/	OVER
oc	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OVS	OVERSIZED
OW	OTHERWISE
OWT	OPEN WEB TRUSS
⅊	PLATE or PROPERTY LINE
PA	POST ABOVE
PAF	POWER ACTUATED FASTENERS
PEN	PANEL EDGE NAIL
PERP	PERPENDICULAR
PES	PANEL EDGE SCREWS
PJP	PARTIAL JOINT PENETRATION
PLF	POUNDS PER LINEAR FOOT
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PTDF	PRESSURE TREATED DOUGLAS FIR
PT	POINT
R	RADIUS
RBS	REDUCED BEAM SECTION
RFTR	RAFTER
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
RET	RETAINING
REV	REVISION
RF	ROOF
RWD	REDWOOD
S	AMERICAN STANDARD BEAM
SAD	SEE ARCHITECTURAL DRAWINGS
SB	SOLID BLOCK
SC	SLIP CRITICAL
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SED	SEE ELECTRICAL DRAWINGS
SEOR	STRUCTURAL ENGINEER OF RECORD
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHTG	SHEATHING
SIM	SIMILAR
SKYLT	SKYLIGHT
SLD	SEE LANDSCAPE DRAWINGS
SMS	SHEET METAL SCREW
SMD	SEE MECHANICAL DRAWINGS
SOG	SLAB ON GROUND
SPCG	SPACING
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SQ	SQUARE
SS	SELECT STRUCTURAL or STAINLESS STEEL
STGR	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
THK	THICK
THRD	THREADED
THRU	THROUGH
TL	TOTAL LOAD
TN	TOE NAIL
TOC	TOP OF CONCRETE
TOF	TOP OF FRAMING
TOM	TOP OF MASONRY
TOP	TOP OF PLYWOOD
TOS	TOP OF STEEL
TOT	TOTAL
TU	TILT UP
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VSH	VERTICAL SLOTTED HOLE
W	WIDE FLANGE STEEL BEAM
W/	WITH
W/O	WITHOUT
WD	WOOD
WHS	WELDED HEADED STUD
WLD	WELDED
WP	WORK POINT/WATERPROOF
WS	WOOD SCREW
WT	WEIGHT
WTS	WELDED THREADED STUD
WWR	WELDED WIRE REINFORCEMENT

A DESIGN CRITERIA

DESIGN CRITERIA: 2022 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC)
RISK CATEGORY: III
WIND DATA: ULTIMATE WIND SPEED (3 SEC GUST) IN MPH: 98
WIND EXPOSURE: C
INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = ±0.18
COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEMS DESIGNED BY OTHERS SHALL COMPLY WITH THE "ASCE 7-16" DESIGN STANDARD
EARTHQUAKE DATA: SEISMIC IMPORTANCE FACTOR, I_e: 1.25
MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_S = 2.14$; $S_1 = 0.82$
SITE CLASS: D (DEFAULT)
SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 1.71$; $S_{D1} = 0.93$
SEISMIC DESIGN CATEGORY: D

SCOPE: NEW WOOD-FRAMED INTERIOR NON-BEARING WALLS AND WALL OPENINGS

B GENERAL NOTES

1. REFER TO SHEET S-0.1 FOR STANDARD DETAILS OF CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.
2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING WORK.
3. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK.
4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
5. COORDINATION OF MECHANICAL, ELECTRICAL, PLUMBING, AND SITE UTILITY SYSTEMS WITH THE STRUCTURAL SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. USE DETAILS ON SHEET S-0.1. AT CONDITIONS WHERE THESE DETAILS DO NOT APPEAR TO APPLY, NOTIFY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. AT CONDITIONS WHERE FIELD MODIFICATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, OR SITE UTILITIES AFFECT STRUCTURAL SYSTEMS, NOTIFY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
6. SHORING, SCAFFOLDING, AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL FINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL ENGAGE A LICENSED CIVIL OR STRUCTURAL ENGINEER TO PROVIDE SHORING.
7. SPECIAL INSPECTIONS ARE REQUIRED PER THE DSA 103 TESTING AND INSPECTION FORM.

C EXISTING CONSTRUCTION NOTES

1. IN PREPARING THE PROJECT PLANS, THE SOURCE OF INFORMATION WAS BASED ON THE EXISTING BUILDING PLANS PREPARED BY, ANDERSON AND SIMONDS ARCHITECTS, DATED JULY 26, 1956 (APPL# 14309). THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW THE PLANS AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH ANY WORK. DRAWINGS FOR THE EXISTING CONSTRUCTION ARE AVAILABLE FOR REVIEW.
2. ALL WORK NOT INDICATED AS EXISTING (E) SHALL BE ASSUMED TO BE NEW (N).
3. ANY REMOVAL, CUTTING, DRILLING, ETC OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE. SMALL TOOLS SHALL BE USED IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL ELEMENTS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT/ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF THE MEMBERS.
4. DO NOT OVER CUT EXISTING WOOD TO REMAIN. CUTS SHALL BE MADE NEATLY TO A CORNER, THEN ALTERNATE MEANS SHALL BE USED TO REMOVE REMAINING MATERIAL. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF OVER CUT MATERIAL AS DIRECTED BY THE ARCHITECT AND/OR ENGINEER.
5. EXISTING DAMAGED STRUCTURAL MEMBERS WHICH ARE UNCOVERED SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND REPAIR.

D WOOD FRAMING NOTES

1. HEADERS, BEAMS, POSTS, TOP PLATE SPLICES, AND ETC., ARE PER 1/S-0.1 WHERE NOT NOTED ON PLAN AND DETAILS. WALLS AT SEISMIC SEPARATIONS SHALL BE CONSIDERED EXTERIOR WALLS.
2. ALL NAILING NOT NOTED OR DETAILED OTHERWISE SHALL BE PER 13/S-0.1 NAIL LENGTH TO BE SUFFICIENT TO MEET CBC PENETRATION REQUIREMENTS. NAILS INTO PRESSURE TREATED MATERIAL SHALL BE HOT DIP GALVANIZED. NAILS AT BORATE TREATED LUMBER MAY BE CLEAR ZINC COATED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AT EXTERIOR EXPOSURES.
3. SEE ARCHITECTURAL DRAWINGS FOR OTHER INTERIOR WALL FRAMING SIZES.
4. THE CONTRACTOR SHALL VERIFY THAT THE MOISTURE CONTENT OF ALL FRAMING LUMBER AND SHEATHING MEET THE REQUIREMENTS OF THE SPECIFICATIONS AT THE TIME OF INSTALLATION AND AT CLOSE-IN. THE CONTRACTOR SHALL PROVIDE ALLOWANCE FOR DIFFERENTIAL SHRINKAGE BETWEEN FLOORS, ETC.

E MATERIAL DATA

(INFORMATION SHOWN IS FOR STRUCTURAL DESIGN REFERENCE ONLY. SEE THE PROJECT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS.)

CONCRETE 28-DAY MINIMUM DESIGN STRENGTH:
F'_c = 3,000 PSI INTERIOR SLAB ON GROUND

1"x#4	AGGREGATE SIZE
0.45	MAX WATER TO CEMENTITIOUS MATERIALS RATIO
6.1	MIN SACK CEMENTITIOUS MATERIAL PER CUBIC YARD

CONCRETE MIX DESIGN FOR INTERIOR SLABS ON GROUND TO HAVE 25% TO 35% FLY ASH OR 30% TO 45% SLAG CEMENT SUBSTITUTED FOR CEMENT AT A POUND-FOR-POUND RATE. REPLACE 200 POUNDS OF SAND WITH 200 POUNDS ⅜"(-) AGGREGATE TO REDUCE TOTAL SAND.

REINFORCING STEEL:
ASTM A615 GRADE 60 OR A706 GRADE 60 (F_y = 60,000 PSI)

FASTENERS:
MACHINE BOLTS - ASTM A307 GRADE A

WOOD BASE DESIGN STRESSES (UNO):

SAWN LUMBER MEMBER	SPECIES AND MINIMUM GRADE, UNO	F_b (PSI)	F_v (PSI)	E (PSI)
6x POSTS	DOUGLAS FIR - #1	1200	170	$1.6x10^6$
6x BEAMS	DOUGLAS FIR - #1	1350	170	$1.6x10^6$
4x POSTS & BEAMS	DOUGLAS FIR - #1	1000	180	$1.7x10^6$
2x JOISTS, RAFTERS	DOUGLAS FIR - #1	1000	180	$1.7x10^6$
⅊ MATERIAL	DOUGLAS FIR - #1	1000	180	$1.7x10^6$
2x STUDS	DOUGLAS FIR - #1	1000	180	$1.7x10^6$
2x BLOCKING	DOUGLAS FIR - #1	1000	180	$1.7x10^6$

LAMINATED VENEER LUMBER (LVL):
ALL LAMINDATED VENEER LUMBER USED FOR BEAMS OR JOISTS SHALL BE 2.0E, Fb=2,600 PSI MINIMUM.

FOR METAL CONNECTOR DESIGNATION REFER TO SIMPSON STRONG-TIE PER SPECIFICATIONS.

STRUCTURAL STEEL:
PLATES - ASTM A36 (Fy = 36,000 PSI)

SHEET INDEX

S-0.1	GENERAL NOTES AND TYPICAL DETAILS
S-2.1	BUILDING G FOUNDATION PLAN

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BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO: 01-122019
ARCH PROJECT NO: 1910.00
ENGINEER: TK
PROJECT MANAGER: CSW
PTN: 61192-223 FILE NO: 1-H6
CONSTRUCTION DOCS
JUNE 11, 2025
SHEET TITLE
GENERAL NOTES AND TYPICAL DETAILS
SHEET NUMBER
S-0.1

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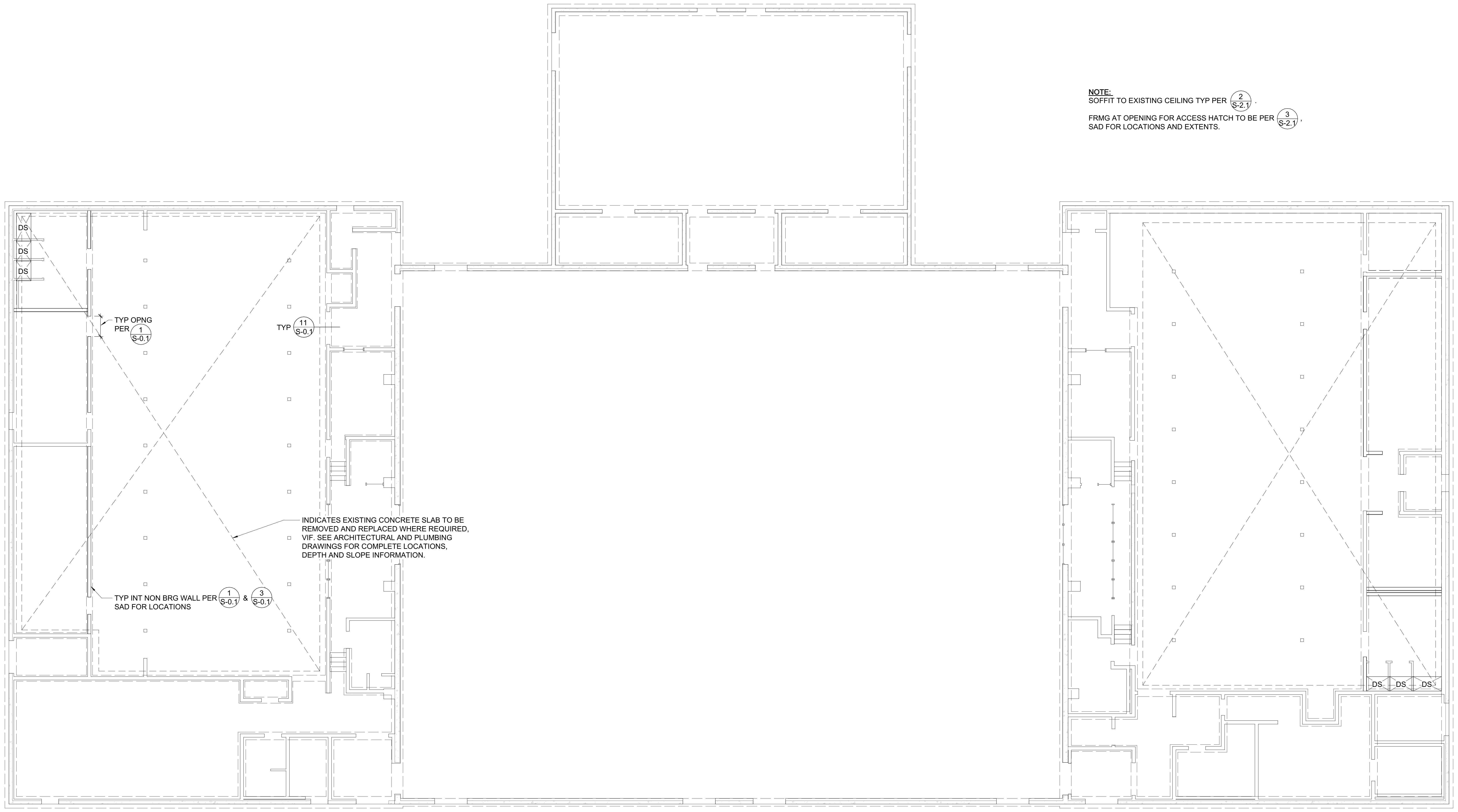
NOTE:
SOFFIT TO EXISTING CEILING TYP PER 2/S-2.1 .

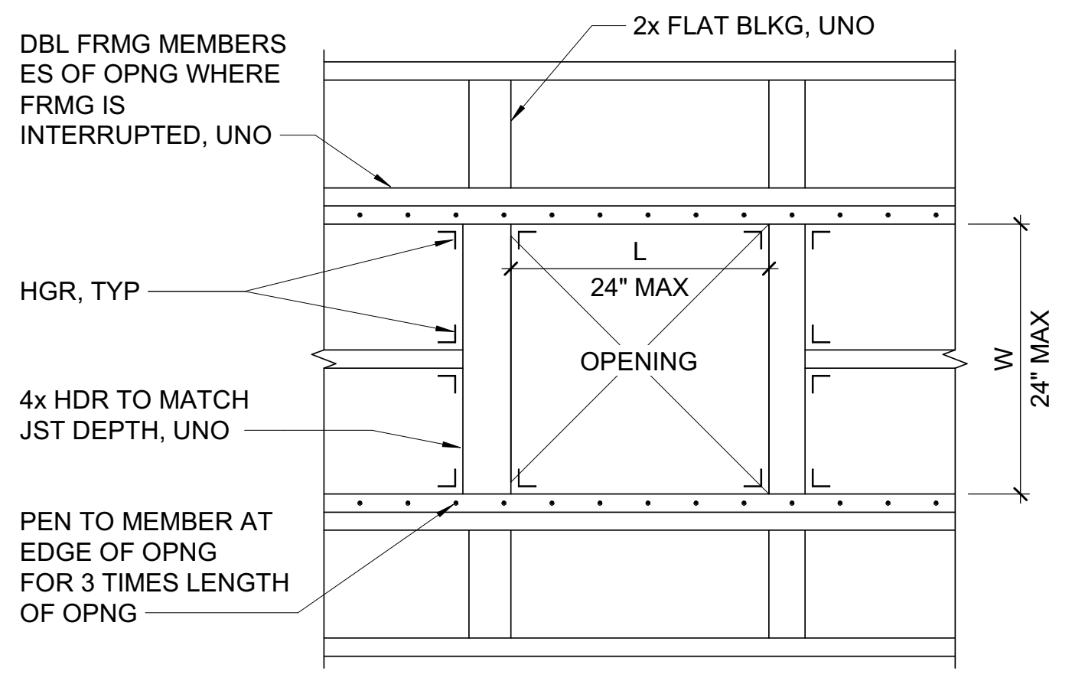
FRMG AT OPENING FOR ACCESS HATCH TO BE PER 3/S-2.1 ,
SAD FOR LOCATIONS AND EXTENTS.


DS
DS
DS
TYP OPNG PER 1/S-0.1
TYP 11/S-0.1
INDICATES EXISTING CONCRETE SLAB TO BE REMOVED AND REPLACED WHERE REQUIRED, VIF. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COMPLETE LOCATIONS, DEPTH AND SLOPE INFORMATION.
TYP INT NON BRG WALL PER 1/S-0.1 & 3/S-0.1 SAD FOR LOCATIONS
DS
DS
DS

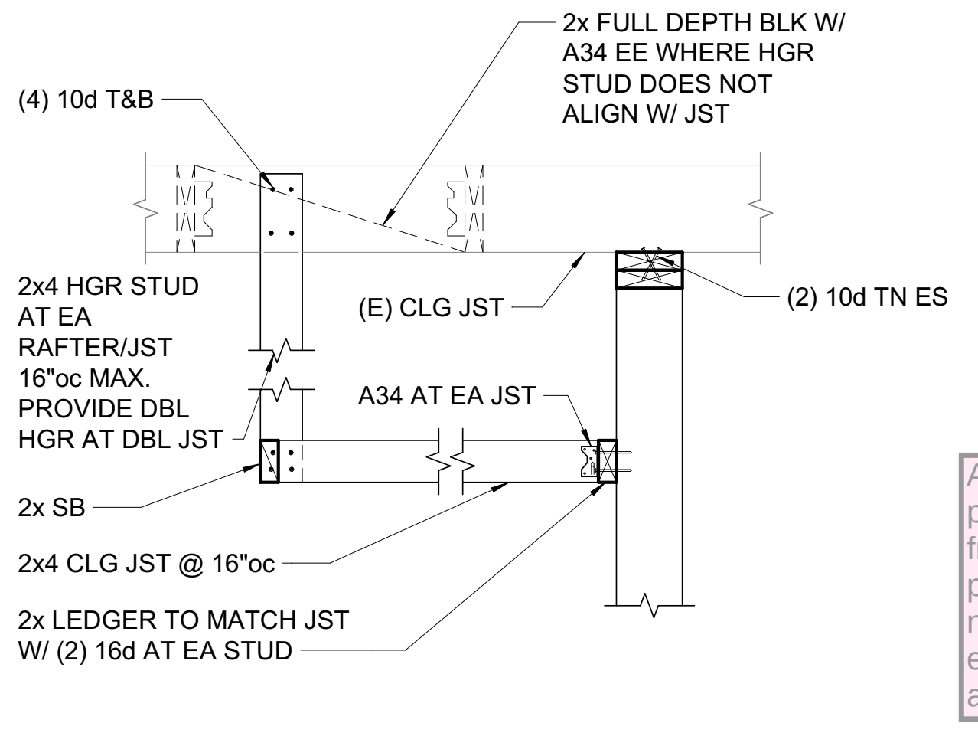
NORTH

BUILDING G FOUNDATION PLAN

3/32" = 1'-0"


DBL FRMG MEMBERS ES OF OPNG WHERE FRMG IS INTERRUPTED, UNO
2x FLAT BLKG, UNO
HGR, TYP
L
24" MAX
OPENING
W
24" MAX
4x HDR TO MATCH JST DEPTH, UNO
PEN TO MEMBER AT EDGE OF OPNG FOR 3 TIMES LENGTH OF OPNG

③ NEW OPENING AT SOFFIT
3/4" = 1'-0"


(4) 10d T&B
2x FULL DEPTH BLK W/ A34 EE WHERE HGR STUD DOES NOT ALIGN W/ JST
2x4 HGR STUD AT EA RAFTER/JST 16"oc MAX. PROVIDE DBL HGR AT DBL JST
(E) CLG JST
(2) 10d TN ES
A34 AT EA JST
2x SB
2x4 CLG JST @ 16"oc
2x LEDGER TO MATCH JST W/ (2) 16d AT EA STUD

Also provide detail for penetration in ceiling framing for added access panel detail, for both at new soffits and at existing ceilings, see arch for more info

② SOFFIT FRAMING TO EXISTING CEILING
3/4" = 1'-0"

① NOT USED
3/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. REFER TO SHEET S-0.1 FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.

2. PLUMBING AND ELECTRICAL CONDUIT AND GROUND STRAP SHALL NOT BE LAID WITHIN FOUNDATIONS. NO UTILITY PIPES OR CONDUITS SHALL BE LOCATED THRU COLUMN FOOTINGS OR FRAME FOOTINGS. NO PIPES OR CONDUITS THRU SILL PLATES SHALL BE WITHIN 12" OF HOLDOWN BOLTS. NO MECHANICAL, ELECTRICAL, OR PLUMBING OPENINGS SHALL BE LOCATED IN SHEAR WALLS UNLESS SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMES, STEEL COLUMNS, OR STEEL BASE PLATES. PROVIDE FURRING AND/OR THICKENED CONCRETE WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY STRUCTURAL ENGINEER/ARCHITECT PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE DETAILS.

   PIPES THROUGH FOOTINGS SHALL BE PER 8/S-0.1 AND 9/S-0.1 .

   PIPES AT SLAB ON GRADE SHALL BE PER 10/S-0.1 .

   PIPES THROUGH WOOD FRAMING SHALL BE PER 5/S-0.1 .

3. CONTRACTOR SHALL DETERMINE FOUNDATION STEP LOCATIONS BASED ON GEOTECHNICAL REPORT, CIVIL, ARCHITECTURAL AND LANDSCAPE DRAWINGS.

4. AT LOCATIONS WHERE CONCRETE SLAB IS TO BE REMOVED AND REPLACED, SLAB IS TO BE 5" CONCRETE REINFORCED WITH #4 @ 12"oc EACH WAY AT MID-DEPTH OVER VAPOR RETARDER PER 10/S-0.1 AND 4" MINIMUM FREE DRAINING COMPACTED ¾" CRUSHED ROCK ON SUBGRADE. DO NOT DRIVE CONCRETE TRUCKS OR LARGE SCREED MACHINES ON VAPOR RETARDER WITHOUT ADDITIONAL BUFFER MATERIAL AND APPROVAL FROM THE STRUCTURAL ENGINEER.

PLAN LEGEND

SYMBOL	REFERENCE DETAIL	DESCRIPTION
⬚		INDICATES EXISTING FOUNDATION.
▭		INDICATES EXISTING FRAMING.
▨		INDICATES EXISTING CONCRETE WALL.
☒ DS	12/S-0.1	INDICATES DEPRESSED SLAB, SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COMPLETE LOCATIONS, DEPTH AND SLOPE INFORMATION.

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SHEET TITLE

BUILDING G FOUNDATION PLAN

SHEET NUMBER

S-2.1

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SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	MFR	MODEL	AIRFLOW	ELECTRICAL DATA			RATED HEATING	MAX HEATING OUTPUT	SENSIBLE COOLING	RATED MAX COOLING	FILTER	WEIGHT	SERVICE	REMARKS
				V-Ø-HZ	MCA	MOCP								
SFC G6	DAIKIN	FTXF24AXVJU	754 CFM	SEE OUTDOOR UNIT			23600 Btu/h	28600 Btu/h	16360 Btu/h	26400 Btu/h	WASHABLE	22 lb	GIRLS TEAM ROOM G13S	1-6

REMARKS:
1. PROVIDE WITH MINI WHITE PUMP DACA-CP4-1
2. SEE B/M-4.1 FOR CONTROL DIAGRAM
3. PROVIDE WITH PELICAN TC2 THERMOSTAT.
4. PROVIDE INDIVIDUAL POWER TO ONE (1)OUTDOOR UNIT.
5. WALL MOUNT FAN COIL MOUNT PER DETAIL E/M-3.1
6. PROVIDE WITH 24V THERMOSTAT INTERFACE MODULE

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

MARK	MFR.	MODEL NO.	EFFICIENCY				ELECTRICAL DATA			WEIGHT	SERVICE	REMARKS
			EER2	SEER2	HSPF2	COP	V-Ø-HZ	MCA	MOCP			
SHP G6	DAIKIN	RXF24AXVJU	12.5	21.0	9.1	3.3	208-1-60	16.34	20	101	SFC G5	1,2

REMARKS:
1. PROVIDE WITH R-32 REFRIGERANT AND ALL ASSOCIATED APPURTENANCES
2. MOUNT ON ROOF PER DETAIL A/M-3.1

EXHAUST FAN SCHEDULE

MARK	MFR	MODEL NO	AIRFLOW	ESP (In. W.G.)	FAN RPM	INLET SONES	MOTOR HP	OPER. HP	ELECTRICAL DATA				CEI WEIGHT	SERVICE	REMARKS
									WATTS	V-Ø-Hz	MCA	MOCP			
EF G5	GREENHECK	G-080-VG	200 CFM	0.25	1154	4.6	1/10	0.02		115-1-60	2.00	15	50 lb	GIRLS TEAM ROOM G13S	1-5
EF G6	GREENHECK	G-080-VG	200 CFM	0.25	1154	4.6	1/10	0.02		115-1-60	2.00	15	50 lb	TOWEL ROOM G13A	1-4,6

REMARKS:
1. FURNISH WITH VARI-GREEN MOTOR, SPEED CONTROLLER FOR BALANCING
2. PROVIDE WITH MANUFACUTRERS ROOF CURB, MIN 14"
3. PROVIDE WITH BACKDRAFT DAMPER
4. MOUNT EXHAUST FAN PER DETAIL B/M-3.1
5. FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS, SEE C/M-4.1
6. FAN TO TURN ON TO MAINTAIN 72°F SEE D/M-4.2

OSA MECHANICAL VENTILATION SCHEDULE

ROOM #	ROOM NAME	SF	ROOM CLASSIFICATION	CEC TABLE 120.1-A				SYSTEM DESIGN	
				(MIN MIN) OA RATE CFM/FT2	(MIN MAX) OA RATE CFM/FT2	(MIN MIN) * SF	(MIN MAX) * SF	DESIGN (OA) (MIN MIN)	DESIGN (OA) (MIN MAX)
G13S	GIRLS TEAM ROOM	366	62- General - Conference/Meeting	0.15	0.5	55	183	75	200

Applicable Code: 2022 CBC 04/11/2023 Revised: 04/11/2023

MEP Componet Anchorage Note

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

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

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

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

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

MEP Distribution System Bracing Note for Piping, Ductwork, and Electrical Conduit

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

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. The MEP design professional engineer responsible for content on these sheets has verified that the design methods identified below are in accordance with DSA IR 16-13

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

MP☒ MD☒ PP☐ E☐ Option 1: Project-Specific Design.

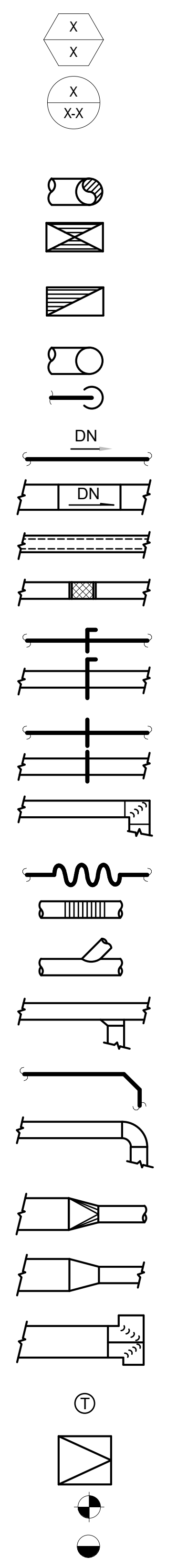
MP☐ MD☐ PP☐ E☐ Option 2: Design Based on OSHPD OPM, Within Project Submittal.

MP☐ MD☐ PP☐ E☐ Option 3: Design Based on OSHPD OPM, Deferred Submittal.

ACCEPTANCE TESTING

WHEN CERTIFICATION IS REQUIRED BY TITLE 24, PART 1, SECTION 10-103.2, THE ACCEPTANCE TESTING SPECIFIED BY SECTION 120.5(a) SHALL BE PERFORMED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST TECHNICIAN (CMATT). IF THE CMATT IS OPERATING AS AN EMPLOYEE, THE CMATT SHALL BE EMPLOYED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST EMPLOYER. THE CMATT SHALL DISCLOSE ON THE CERTIFICATE OF ACCEPTANCE A VALID CMATT CERTIFICATION IDENTIFICATION NUMBER ISSUED BY AN APPROVED ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER. THE CMATT SHALL COMPLETE ALL CERTIFICATE OF ACCEPTANCE DOCUMENTATION IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS IN SECTION 10-103(a)4.

HVAC LEGEND



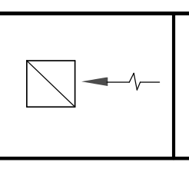
SYMBOL	ABBREVIATION	DESCRIPTION
		EQUIPMENT TYPE EQUIPMENT NUMBER
		DETAIL / DRAWING NUMBER SHEET NUMBER
	SA OR OA	SECTION THRU SUPPLY AIR OR OUTSIDE AIR DUCT
	RA OR EA	SECTION THRU RETURN AIR OR EXHAUST AIR DUCT
		ROUND DUCT DOWN
	DN OR UP	SLOPE DUCT DOWN OR UP IN DIRECTION OF FLOW
	AL	ACOUSTICAL LINING
	FC	FLEXIBLE DUCT CONNECTION
	VD	VOLUME DAMPER
	FD	FIRE DAMPER
	TV	TURNING VANES
		FLEXIBLE DUCT
		45° ROUND DUCT TAKE-OFF
		45° RECTANGULAR DUCT TAKE-OFF
		90° TURN - ROUND DUCT
		90° RADIUS TURN - ROUND OR RECTANGULAR DUCT
		SQUARE TO ROUND DUCT TRANSITION
		DUCT TRANSITION
		RECTANGULAR DUCT 90° SPLIT
		THERMOSTAT @ 46" AFF MAX TO CENTER LINE
	AP	ACCESS PANEL
	POC	POINT OF CONNECTION
	POD	POINT OF DEMOLITION
	BHP	BRAKE HORSEPOWER
	HP	HORSEPOWER
	SAD	SEE ARCHITECTURAL DRAWINGS
	SSD	SEE STRUCTURAL DRAWINGS
	SCD	SEE CIVIL DRAWINGS
	AFC	ABOVE FINISH CEILING

BLDG 'MECHANICAL' SHEET LIST

M-1.1	HVAC SHEDULES & LEGENDS
MD-2.1	MECHANICAL DEMOLITION PLAN - BLDG G
M-2.1	MECHANICAL FLOOR PLAN
M-2.2	MECHANICAL ROOF PLAN
M-3.1	MECHANICAL DETAILS
M-4.1	CONTROL DIAGRAMS

AIR TERMINAL SCHEDULE

MANUFACTURER: TITUS
(EXCEPT AS NOTED)

EG		EXHAUST GRILLE	50F - 1/2" x 1/2" x 1/2" EGGCRATE, ALUMINUM GRID

NOTES:
1. ADAPTER NEEDED FOR TRANSITION FROM SQUARE NECK TO ROUND DUCT.
2. $\frac{\text{SIZE (NECK/FACE) TYPE}}{\text{CFM (NO. OF THROW)}}$ FACE SIZE FOR T-BAR CEILING ONLY

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SHEET TITLE

HVAC SHEDULES & LEGENDS

SHEET NUMBER

M-1.1

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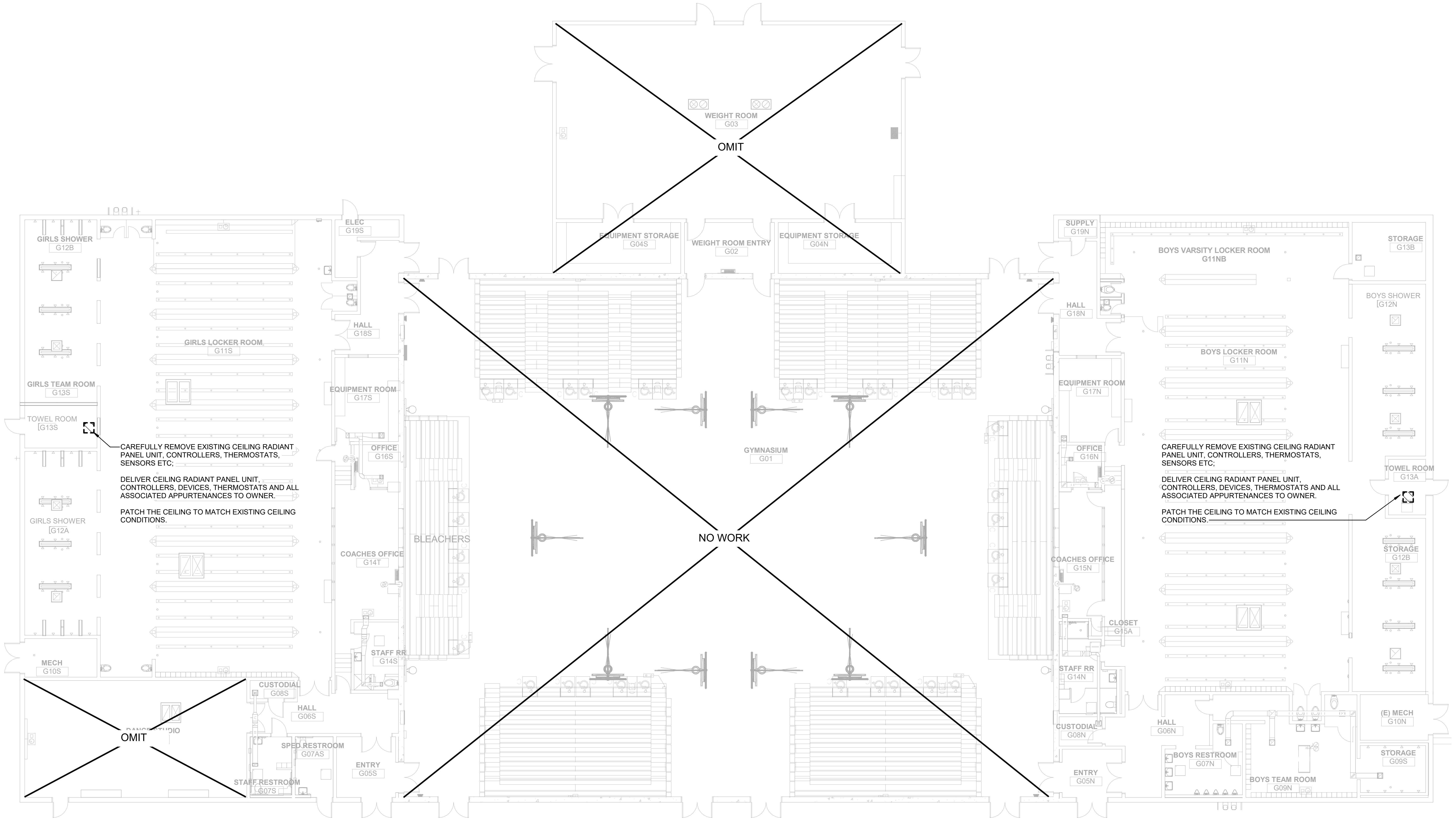


CAREFULLY REMOVE EXISTING CEILING RADIANT PANEL UNIT, CONTROLLERS, THERMOSTATS, SENSORS ETC;

DELIVER CEILING RADIANT PANEL UNIT, CONTROLLERS, DEVICES, THERMOSTATS AND ALL ASSOCIATED APPURTENANCES TO OWNER.

PATCH THE CEILING TO MATCH EXISTING CEILING CONDITIONS.

CAREFULLY REMOVE EXISTING CEILING RADIANT PANEL UNIT, CONTROLLERS, THERMOSTATS, SENSORS ETC;

DELIVER CEILING RADIANT PANEL UNIT, CONTROLLERS, DEVICES, THERMOSTATS AND ALL ASSOCIATED APPURTENANCES TO OWNER.

PATCH THE CEILING TO MATCH EXISTING CEILING CONDITIONS.

1 MECHANICAL DEMOLITION

3/32" = 1'-0"

GENERAL DEMOLITION NOTES

A. FOR MECHANICAL GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET M-1.1

B. THIS CONTRACTOR SHALL RETAIN SPECIFIC EQUIPMENT AS DIRECTED BY OWNER AND DELIVER TO OWNER SPECIFIED LOCATION.

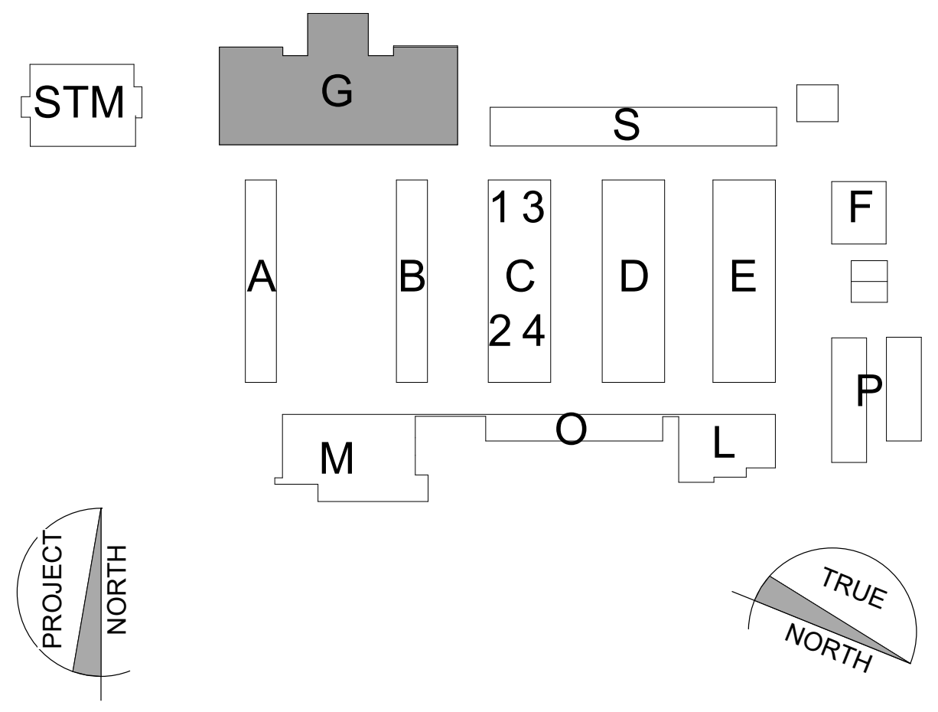
C. ALL EXISTING MECHANICAL EQUIPMENT, PIPING, VALVES, CONTROLS, ETC. RENDERED USELESS BY THIS WORK SHALL BE DEMOLISHED AND REMOVED FROM THE SITE

D. LOCATION OF EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR OUTLETS, PIPING, CONTROLS, VALVING, ETC. HAS BEEN BASED ON THE BEST AVAILABLE INFORMATION OBTAINABLE AT THE SITE AND THROUGH RECORD DRAWINGS. VERIFY EXACT LOCATIONS, SIZES, AND EXTENT OF EXISTING SYSTEMS PRIOR TO START OF DEMOLITION WORK

E. PATCH ALL WALLS, CEILINGS, ROOF AND OTHER SURFACES TO MATCH EXISTING CONDITIONS.

F. ASBESTOS CONTAINING PRODUCTS MAY BE PRESENT IN THE EXISTING BUILDING CONSTRUCTION. IF SUSPECT MATERIALS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH ADDITIONAL WORK. THE CONTRACTOR SHALL IMMEDIATELY POST NOTICES AND TAKE PRECAUTIONS NECESSARY TO ENSURE THE HEALTH AND SAFETY OF ALL WORKERS, THE STAFF, AND THE PUBLIC

KEY PLAN



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MECHANICAL

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DRAWING SCALE: 3/32" = 1'-0"
PTN: 61192-223 **FILE NO:** 1-H6

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SHEET TITLE

**MECHANICAL
DEMOLITION
PLAN - BLDG G**

SHEET NUMBER

MD-2.1

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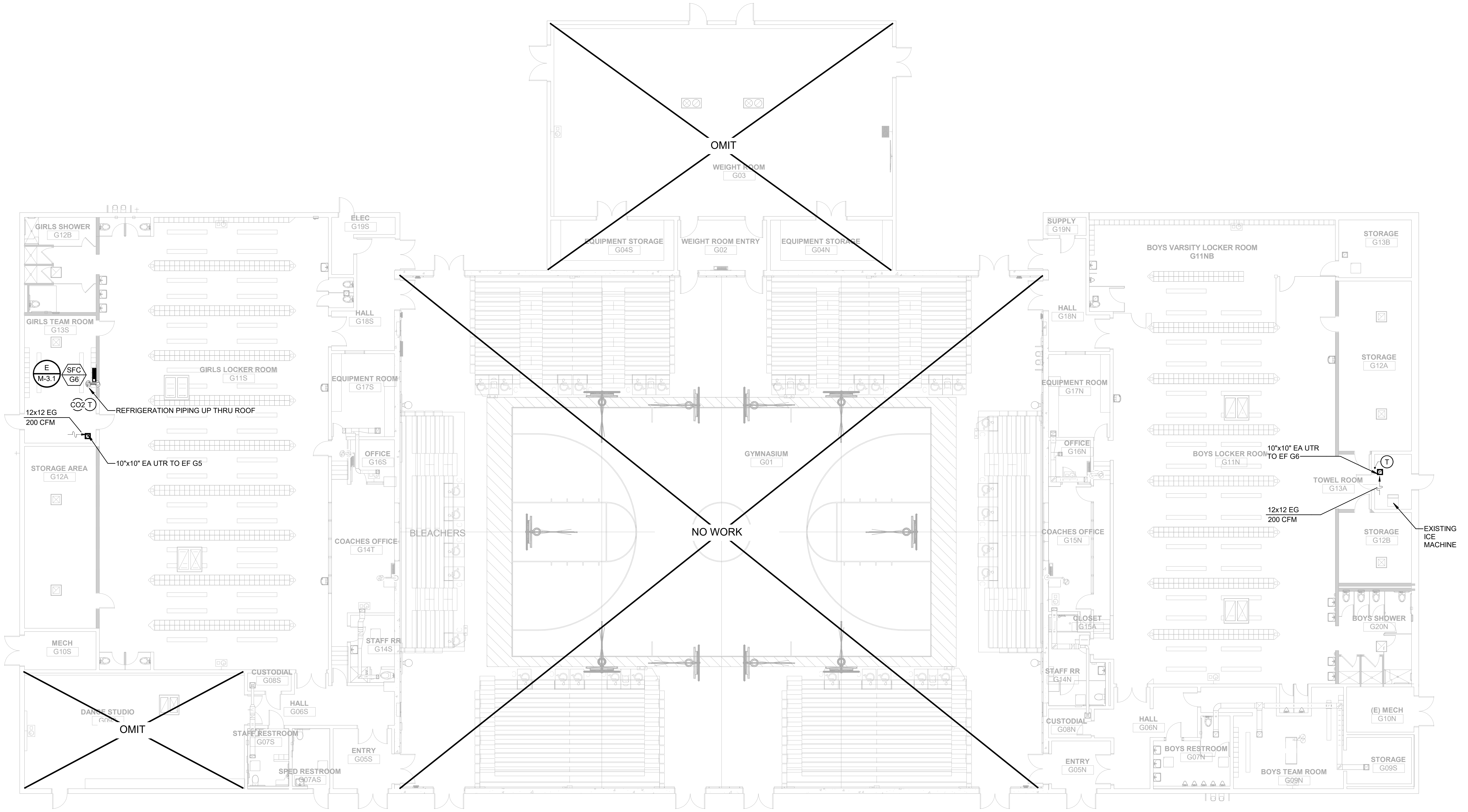
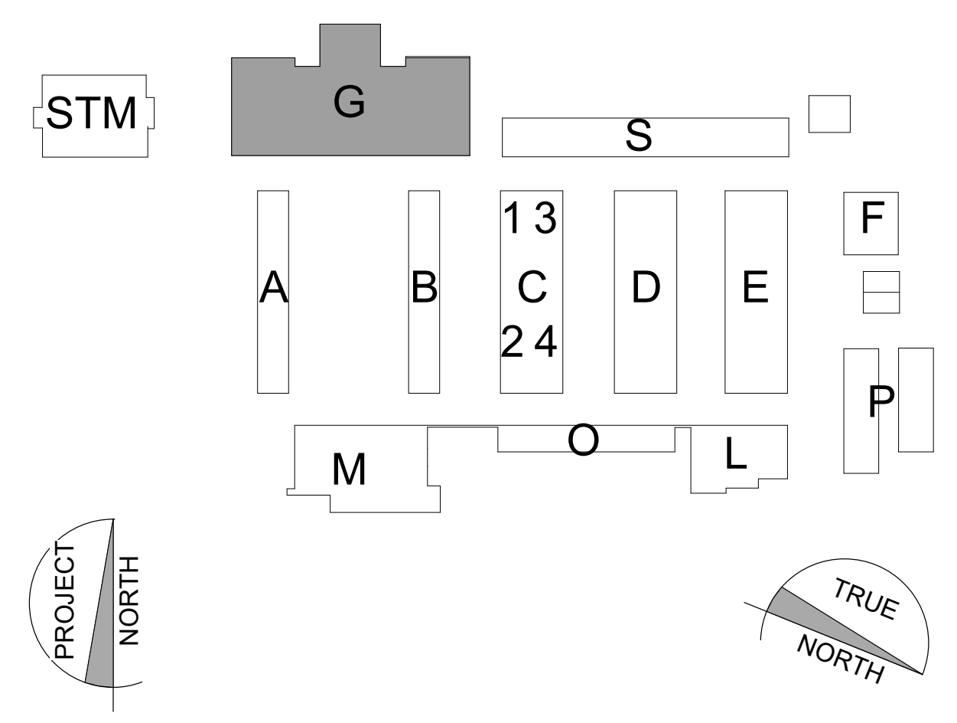


1 **MECHANICAL FLOOR PLAN**
3/32" = 1'-0"

GENERAL NOTES

- A. FOR MECHANICAL GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET M-1.1 FOR SCHEDULES REFER TO SHEET M-1.1
- B. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL WORK WITH OTHER TRADES. MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, SKYLIGHTS, ETC.
- C. CONTRACTOR SHALL COORDINATE ALL GRILLE LOCATIONS AND CEILING TYPES PRIOR TO ORDERING GRILLES, SEE ARCHITECTURAL CEILING PLANS AND ELECTRICAL LIGHTING PLANS.
- D. INSTALL CONTROL DEVICES AND T-STAT WITH INTEGRATED CO2 SENSOR 48 INCHES AFF MAX TO TOP OF BOX
- E. ALL DUCT DIMENTIONS ARE INDICATING INSIDE DIMENTIONS OF THE FREE AREA OF DUCT, UNLESS OTHERWISE NOTED.
- F. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
- G. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.

KEY PLAN



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK
ARCHITECTS
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851 Napa Valley Corporate way. Suit D,
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CHRISTOPHER J. DEL CORE
NO. 31600
Exp. 12-31-24

TENNYSON
HIGH SCHOOL

BUILDING G
MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: Author
DRAWING SCALE: 3/32" = 1'-0"
PTN: 61192-223 **FILE NO:** 1-H6

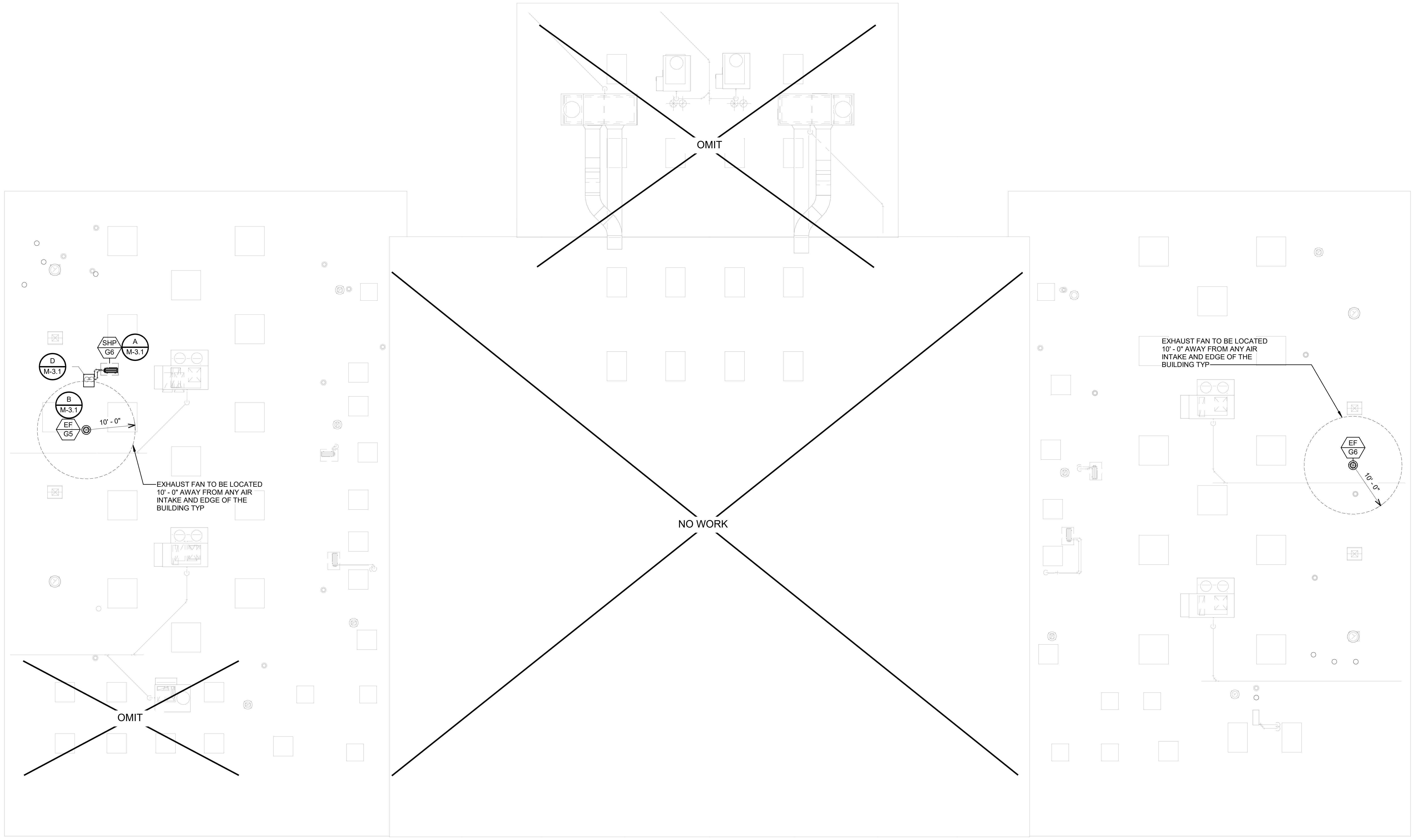
BID SET 2026
4.15.2026

SHEET TITLE

MECHANICAL
FLOOR PLAN

SHEET NUMBER

M-2.1



EXHAUST FAN TO BE LOCATED 10' - 0" AWAY FROM ANY AIR INTAKE AND EDGE OF THE BUILDING TYP

EXHAUST FAN TO BE LOCATED 10' - 0" AWAY FROM ANY AIR INTAKE AND EDGE OF THE BUILDING TYP

1 MECHANICAL ROOF PLAN
3/32" = 1'-0"

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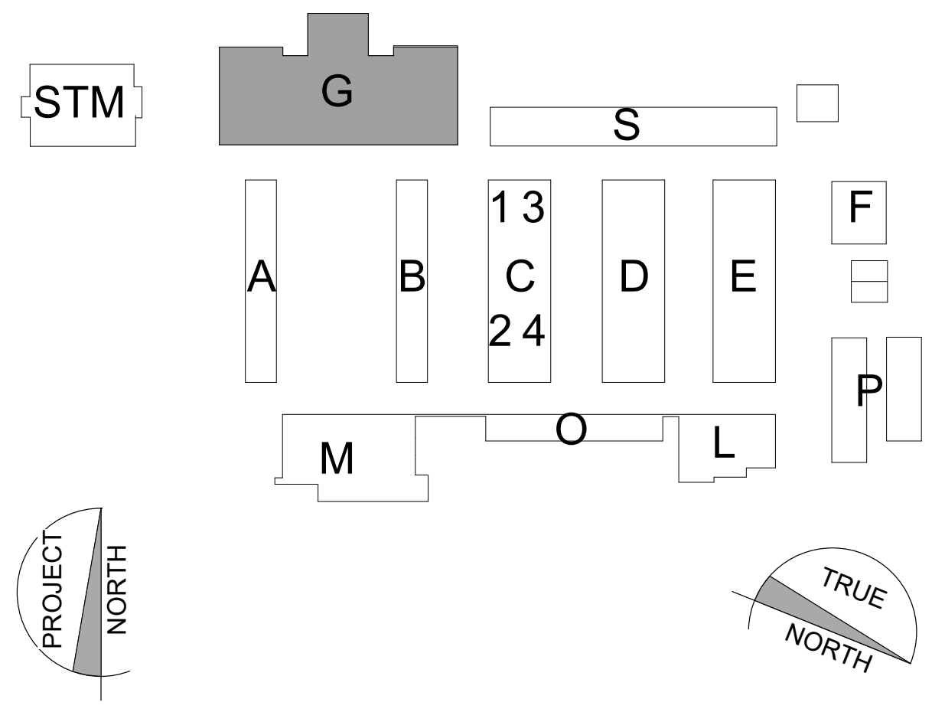

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PTN: 61192-223 **FILE NO:** 1-H6

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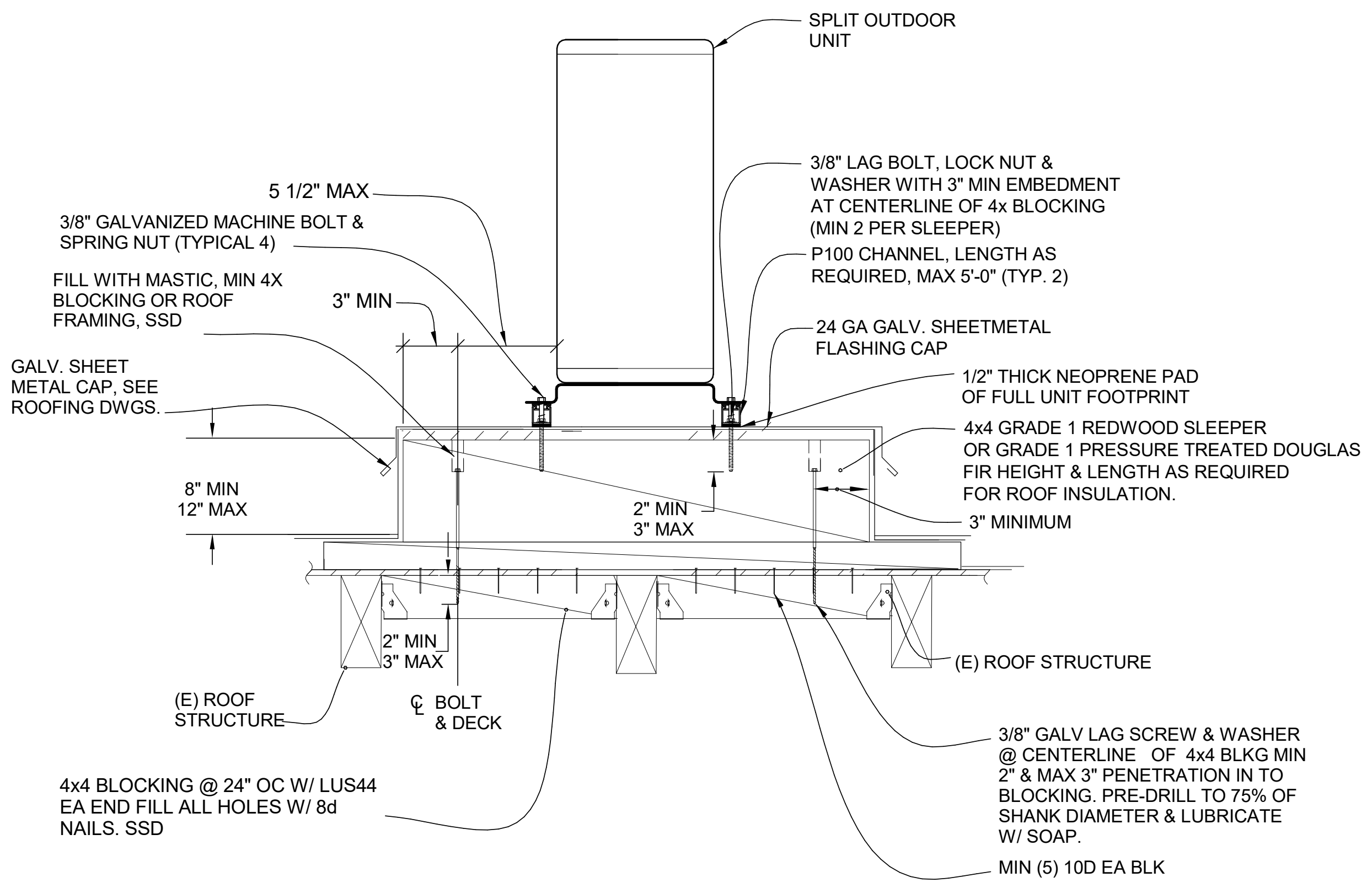
SHEET TITLE

MECHANICAL ROOF PLAN

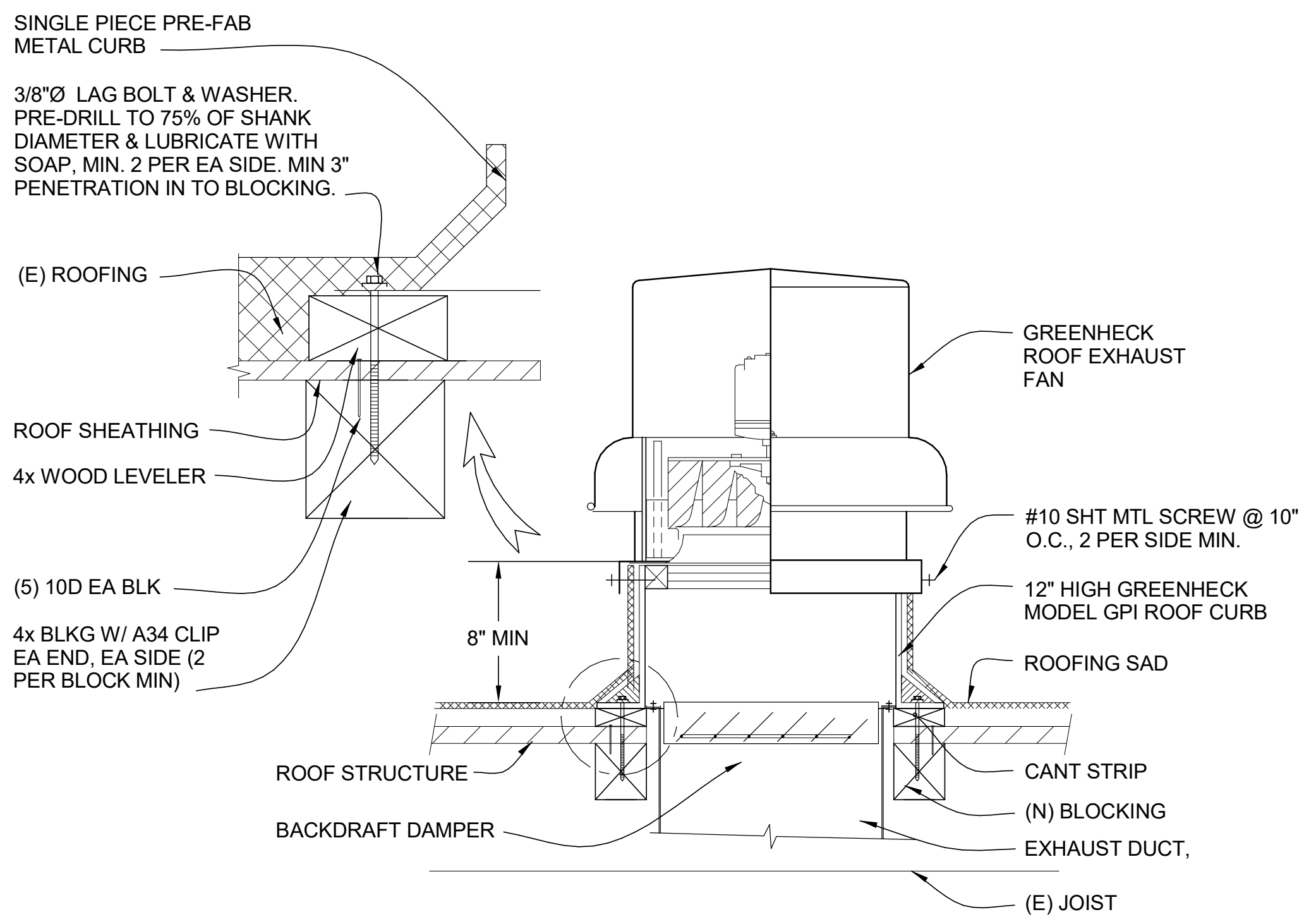
SHEET NUMBER

M-2.2


SPLIT OUTDOOR UNIT
3/8" LAG BOLT, LOCK NUT & WASHER WITH 3" MIN EMBEDMENT AT CENTERLINE OF 4x BLOCKING (MIN 2 PER SLEEPER)
5 1/2" MAX
3/8" GALVANIZED MACHINE BOLT & SPRING NUT (TYPICAL 4)
P100 CHANNEL, LENGTH AS REQUIRED, MAX 5'-0" (TYP. 2)
FILL WITH MASTIC, MIN 4X BLOCKING OR ROOF FRAMING, SSD
3" MIN
24 GA GALV. SHEETMETAL FLASHING CAP
GALV. SHEET METAL CAP, SEE ROOFING DWGS.
1/2" THICK NEOPRENE PAD OF FULL UNIT FOOTPRINT
4x4 GRADE 1 REDWOOD SLEEPER OR GRADE 1 PRESSURE TREATED DOUGLAS FIR HEIGHT & LENGTH AS REQUIRED FOR ROOF INSULATION.
8" MIN
12" MAX
2" MIN
3" MAX
3" MINIMUM
2" MIN
3" MAX
(E) ROOF STRUCTURE
(E) ROOF STRUCTURE
℄ BOLT & DECK
3/8" GALV LAG SCREW & WASHER @ CENTERLINE OF 4x4 BLKG MIN 2" & MAX 3" PENETRATION IN TO BLOCKING. PRE-DRILL TO 75% OF SHANK DIAMETER & LUBRICATE W/ SOAP.
4x4 BLOCKING @ 24" OC W/ LUS44 EA END FILL ALL HOLES W/ 8d NAILS. SSD
MIN (5) 10D EA BLK

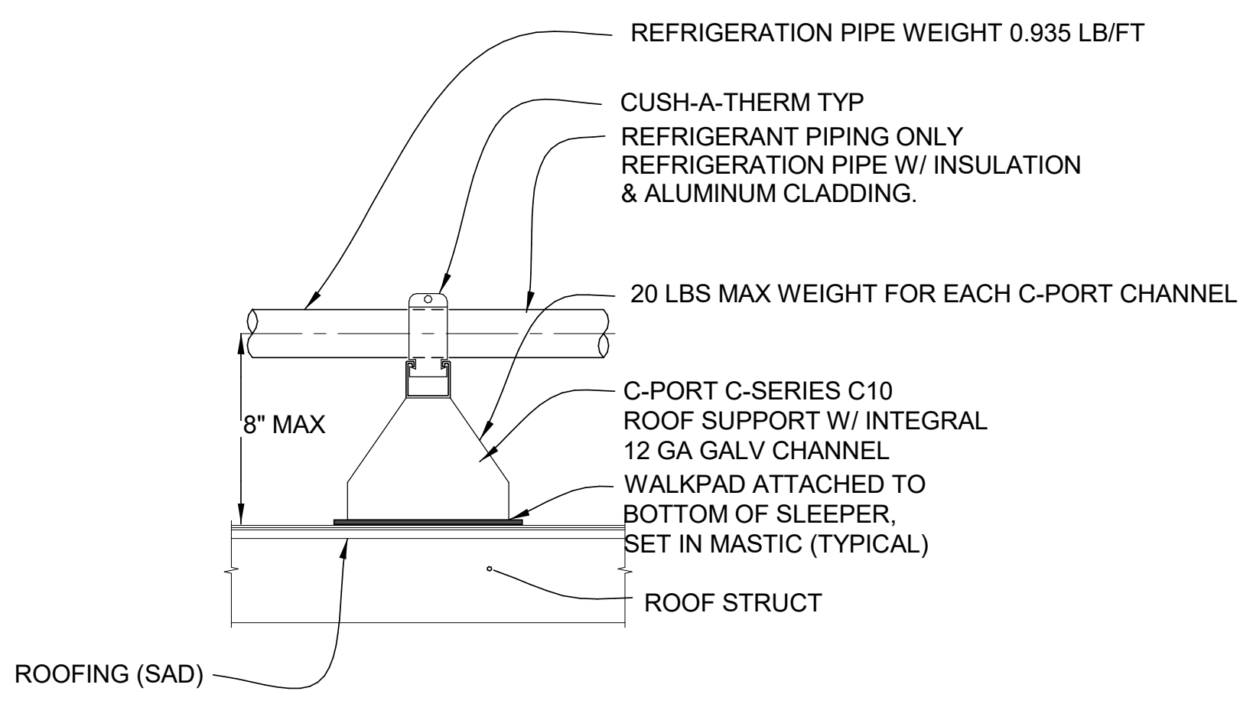
A SPLIT OUTDOOR UNIT MOUNTING DETAIL

SCALE: NONE


SINGLE PIECE PRE-FAB METAL CURB
3/8"Ø LAG BOLT & WASHER. PRE-DRILL TO 75% OF SHANK DIAMETER & LUBRICATE WITH SOAP, MIN. 2 PER EA SIDE. MIN 3" PENETRATION IN TO BLOCKING.
(E) ROOFING
GREENHECK ROOF EXHAUST FAN
ROOF SHEATHING
4x WOOD LEVELER
#10 SHT MTL SCREW @ 10" O.C., 2 PER SIDE MIN.
(5) 10D EA BLK
12" HIGH GREENHECK MODEL GPI ROOF CURB
4x BLKG W/ A34 CLIP EA END, EA SIDE (2 PER BLOCK MIN)
8" MIN
ROOFING SAD
ROOF STRUCTURE
CANT STRIP
(N) BLOCKING
BACKDRAFT DAMPER
EXHAUST DUCT,
(E) JOIST

B EXHAUST FAN ON ROOF DETAIL

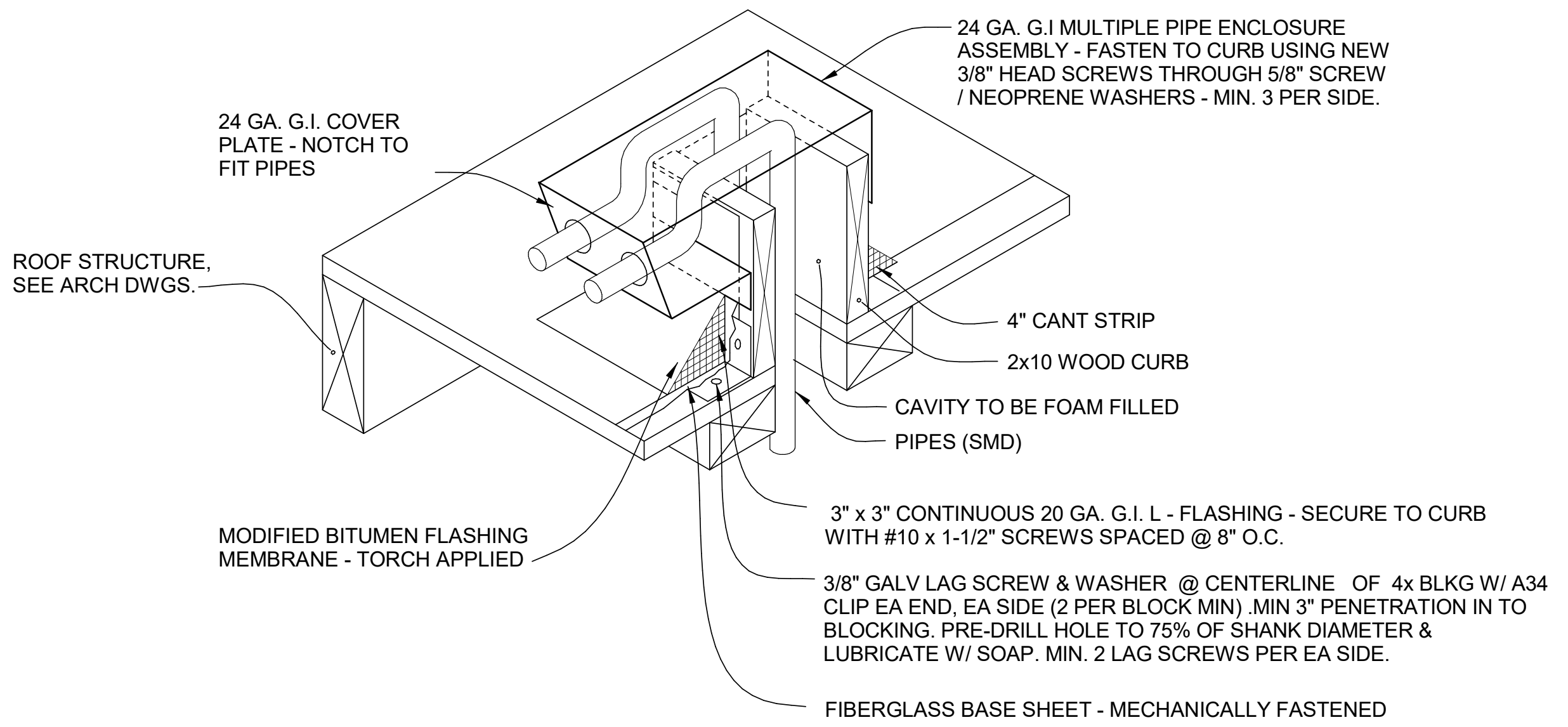
SCALE: NONE


REFRIGERATION PIPE WEIGHT 0.935 LB/FT
CUSH-A-THERM TYP
REFRIGERANT PIPING ONLY REFRIGERATION PIPE W/ INSULATION & ALUMINUM CLADDING.
20 LBS MAX WEIGHT FOR EACH C-PORT CHANNEL
8" MAX
C-PORT C-SERIES C10 ROOF SUPPORT W/ INTEGRAL 12 GA GALV CHANNEL
WALKPAD ATTACHED TO BOTTOM OF SLEEPER, SET IN MASTIC (TYPICAL)
ROOF STRUCT
ROOFING (SAD)

NOTE: SUPPORTS SHALL BE AT 8'-0" ON CENTER & AT ALL CHANGE OF DIRECTION

C REFRIGERANT PIPING MOUNTED ON ROOF

SCALE: NTS

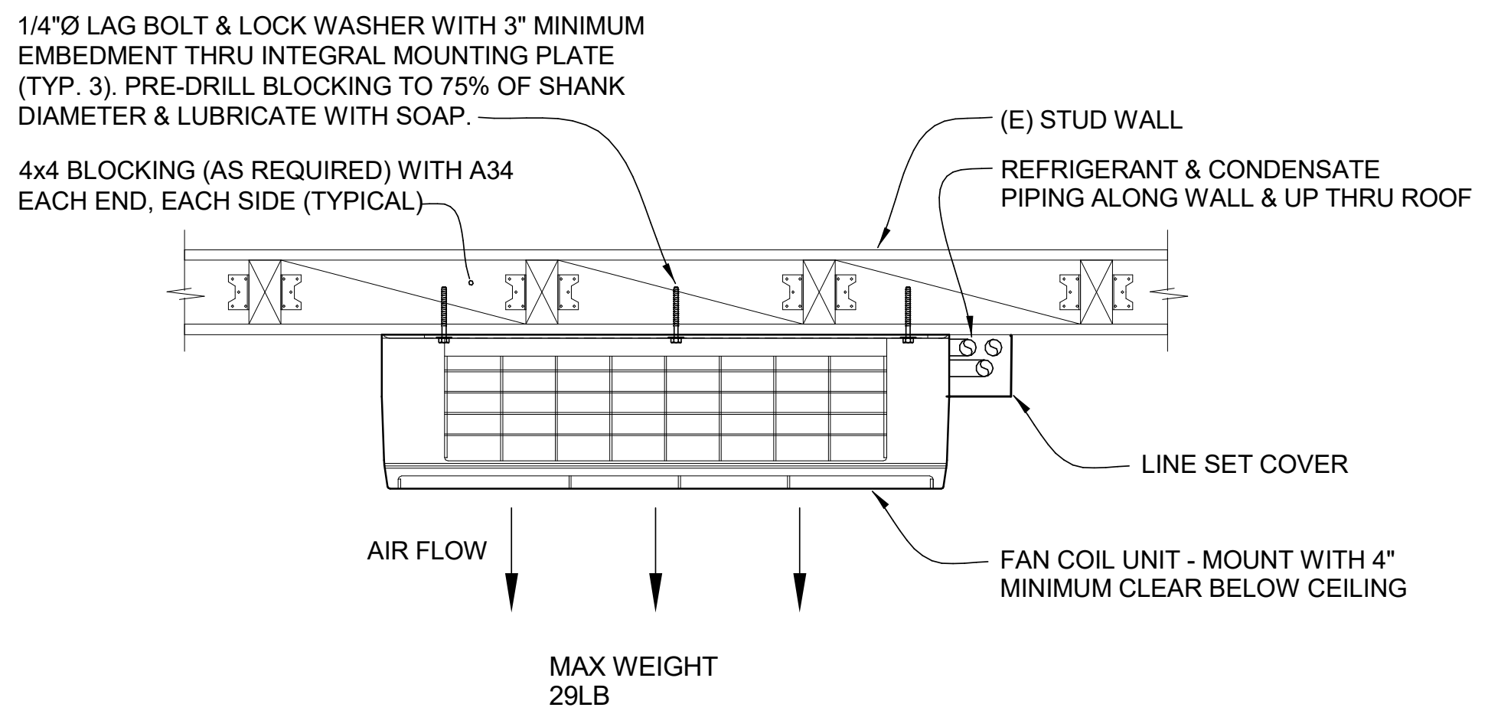

24 GA. G.I MULTIPLE PIPE ENCLOSURE ASSEMBLY - FASTEN TO CURB USING NEW 3/8" HEAD SCREWS THROUGH 5/8" SCREW / NEOPRENE WASHERS - MIN. 3 PER SIDE.
24 GA. G.I. COVER PLATE - NOTCH TO FIT PIPES
ROOF STRUCTURE, SEE ARCH DWGS.
4" CANT STRIP
2x10 WOOD CURB
CAVITY TO BE FOAM FILLED
PIPES (SMD)
3" x 3" CONTINUOUS 20 GA. G.I. L - FLASHING - SECURE TO CURB WITH #10 x 1-1/2" SCREWS SPACED @ 8" O.C.
MODIFIED BITUMEN FLASHING MEMBRANE - TORCH APPLIED
3/8" GALV LAG SCREW & WASHER @ CENTERLINE OF 4x BLKG W/ A34 CLIP EA END, EA SIDE (2 PER BLOCK MIN) .MIN 3" PENETRATION IN TO BLOCKING. PRE-DRILL HOLE TO 75% OF SHANK DIAMETER & LUBRICATE W/ SOAP. MIN. 2 LAG SCREWS PER EA SIDE.
FIBERGLASS BASE SHEET - MECHANICALLY FASTENED

NOTES:

1. ALL PIPES ENTERING THE PIPE ENCLOSURE ASSEMBLY SHALL BE SLOPED UPWARD AS THEY ENTER THE FLASHING SO THAT WATER WILL NOT BE ABLE TO RUN INTO THE BUILDING.
2. WHERE SURFACE IS GRAVEL, SPUD BACK GRAVEL TO ALLOW INSTALLATION OF MODIFIED BITUMEN FLASHING PLY. SURFACE FLASHING PLY WITH ALUMINUM COATING.
3. CLEAN AND PRIME THE ENTIRE TIE-IN AREA.

D PIPE ENCLOSURE DETAIL

SCALE: NONE


1/4"Ø LAG BOLT & LOCK WASHER WITH 3" MINIMUM EMBEDMENT THRU INTEGRAL MOUNTING PLATE (TYP. 3). PRE-DRILL BLOCKING TO 75% OF SHANK DIAMETER & LUBRICATE WITH SOAP.
(E) STUD WALL
4x4 BLOCKING (AS REQUIRED) WITH A34 EACH END, EACH SIDE (TYPICAL)
REFRIGERANT & CONDENSATE PIPING ALONG WALL & UP THRU ROOF
LINE SET COVER
AIR FLOW
FAN COIL UNIT - MOUNT WITH 4" MINIMUM CLEAR BELOW CEILING
MAX WEIGHT 29LB

PLAN VIEW

(WOOD STUD WALL CONSTRUCTION)

E WALL FAN COIL MOUNTING DETAIL

SCALE: NONE

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PTN: 61192-223 **FILE NO:** 1-H6

BID SET 2026

4.15.2026

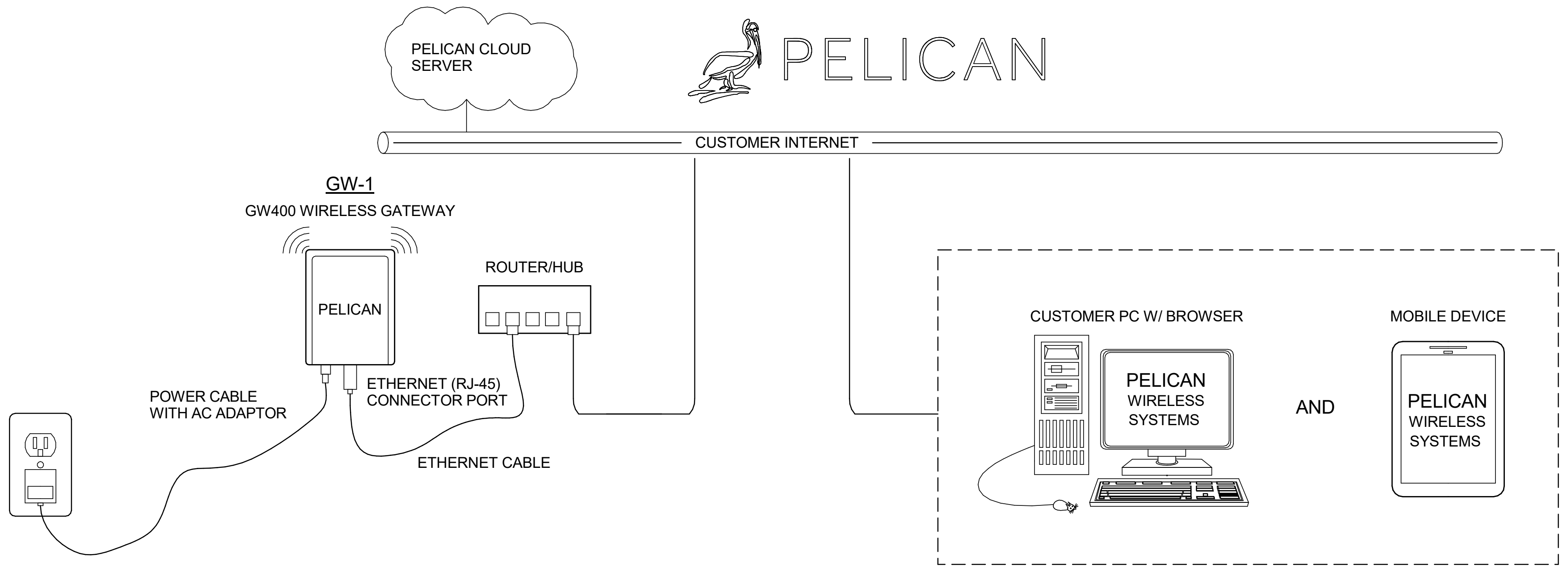
SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M-3.1

C:\Users\mquevedo\Documents\24032 Tennyson OPSC RVT24_mquevedo@costaengineers.com.rvt 6/3/2025 5:20:01 PM



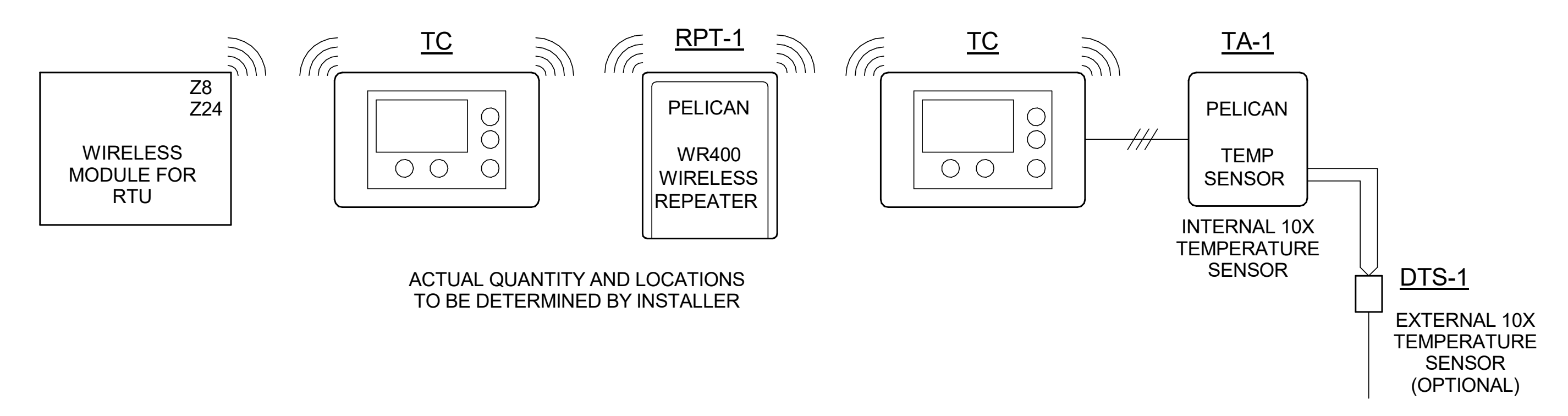
THE WIRELESS GATEWAY IS DESIGNATED TO BE WALL MOUNTED USING THE INCLUDED 3M COMMAND REMOVABLE STRIPS.

FIND A SUITABLE LOCATION WHICH IS:

-WITHIN 10 FEET OF YOUR INTERNET ROUTER
-WITHIN 4 FEET OF AN ELECTRICAL OUTLET
-AT LEAST 4 FEET AWAY FROM OTHER WIRELESS DEVICES
-AWAY FROM LARGE METAL OBJECTS WHICH MAY INTERFERE WITH THE WIRELESS SIGNAL.
-ABOVE OFFICE EQUIPMENT WHICH MAY INTERFERE WITH THE WIRELESS SIGNAL
-ACTUAL QUANTITY AND LOCATIONS TO BE DETERMINED BY INSTALLER. NO PRACTICAL LIMITS TO NUMBER OF THERMOSTATS SUPPORTED BY A SINGLE GATEWAY

FACTORY IP ADDRESS GATE WAY WILL CONNECT AUTOMATICALLY TO PELICAN SERVER AFTER SERIAL NO. OF GATEWAY IS REGISTERED ON PELICAN SITE.

GO TO:http//www.pelicanwireless.com/new-site-subscription/



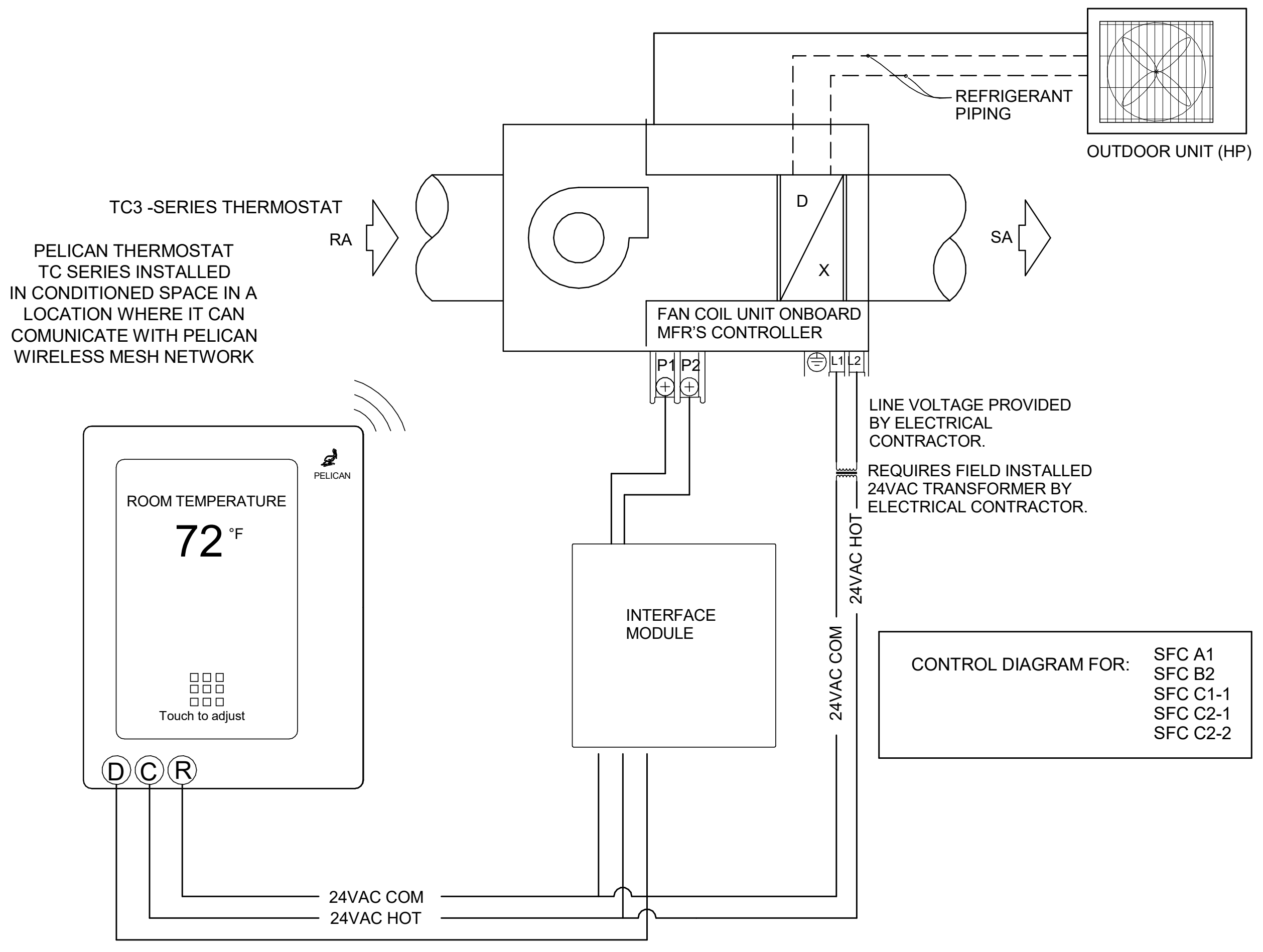
ACTUAL QUANTITY AND LOCATIONS TO BE DETERMINED BY INSTALLER

WIRELESS COMPONENTS

TAG	PART NUMBER	DESCRIPTION
RPT-1	PEL WR400	WIRELESS REPEATER, WITH POWER ADAPTOR
GW-1	PEL GW400	WIRELESS GATEWAY, WITH POWER ADAPTOR
TC	TC2	WIRELESS THERMOSTAT: TEMPERATURE SENSOR WITH PEARL ECONOMIZER CONTROLLER
TC	TC3	WIRELESS THERMOSTAT: TEMPERATURE AND CO2 SENSOR WITH PEARL ECONOMIZER CONTROLLER

A TYPICAL PELICAN WIRELESS LAN LAYOUT

SCALE: NONE


TC3 -SERIES THERMOSTAT
PELICAN THERMOSTAT TC SERIES INSTALLED IN CONDITIONED SPACE IN A LOCATION WHERE IT CAN COMUNICATE WITH PELICAN WIRELESS MESH NETWORK
RA
D
X
SA
REFRIGERANT PIPING
OUTDOOR UNIT (HP)
FAN COIL UNIT ONBOARD MFR'S CONTROLLER
P1 P2
L1 L2
LINE VOLTAGE PROVIDED BY ELECTRICAL CONTRACTOR.
REQUIRES FIELD INSTALLED 24VAC TRANSFORMER BY ELECTRICAL CONTRACTOR.
PELICAN
ROOM TEMPERATURE
72 °F
Touch to adjust
D C R
INTERFACE MODULE
24VAC HOT
24VAC COM
24VAC COM
24VAC HOT

CONTROL DIAGRAM FOR:
SFC A1
SFC B2
SFC C1-1
SFC C2-1
SFC C2-2

NOTE:
INSTALLER MUST REQUEST UPDATED PIPING DIAGRAM PER SITE CONDITIONS AND PROVIDE THEIR FIELD DETERMINED LINE LENGTHS FOR EACH PIPE SEGMENT. NUMBER OF ELBOWS FOR EACH PIPE SEGMENT, AND ELEVATION DIFFERENTIALS.

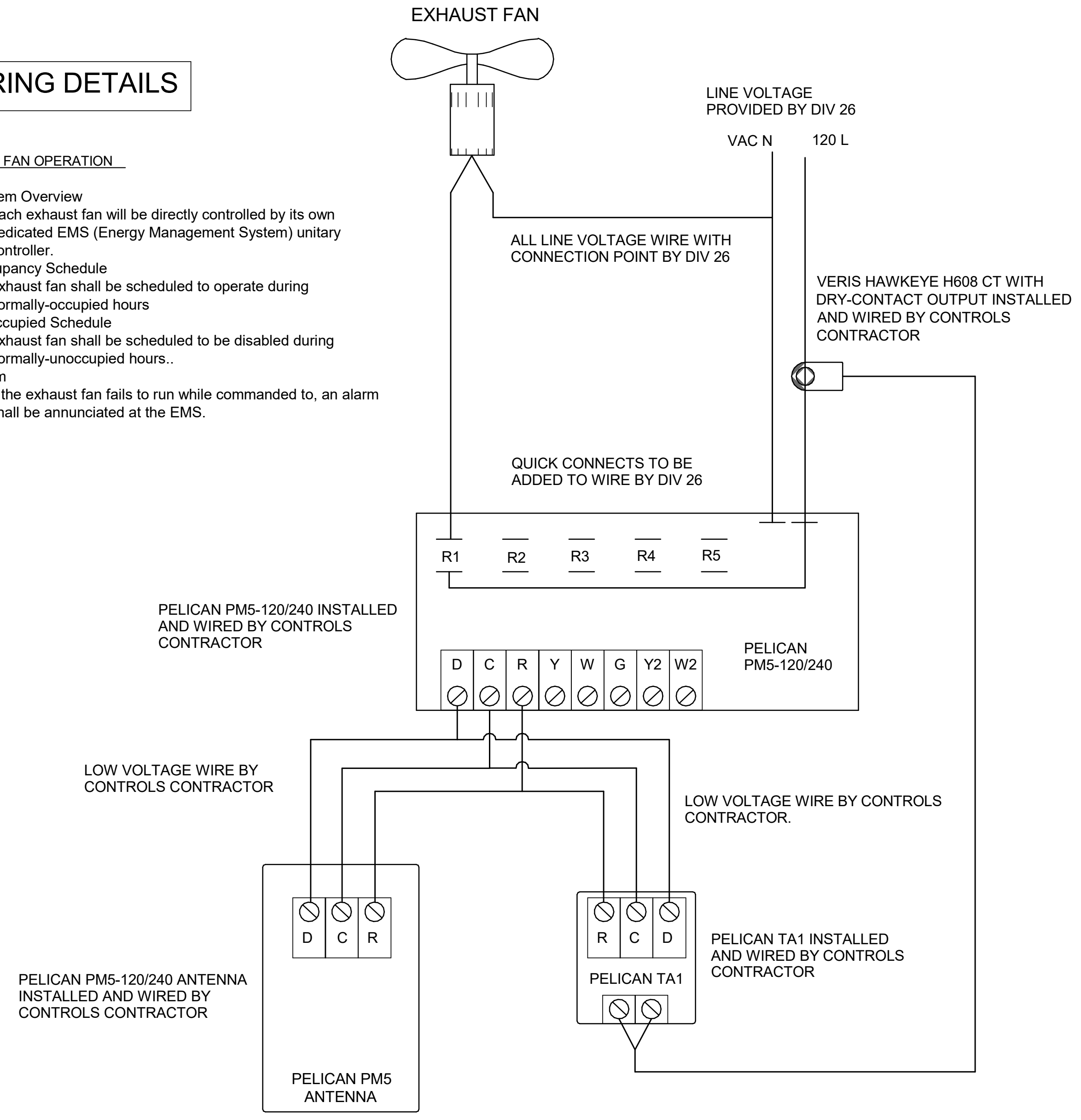
B SINGLE ZONE SPLIT SYSTEM CONTROL DIAGRAM

SCALE: NONE

WIRING DETAILS

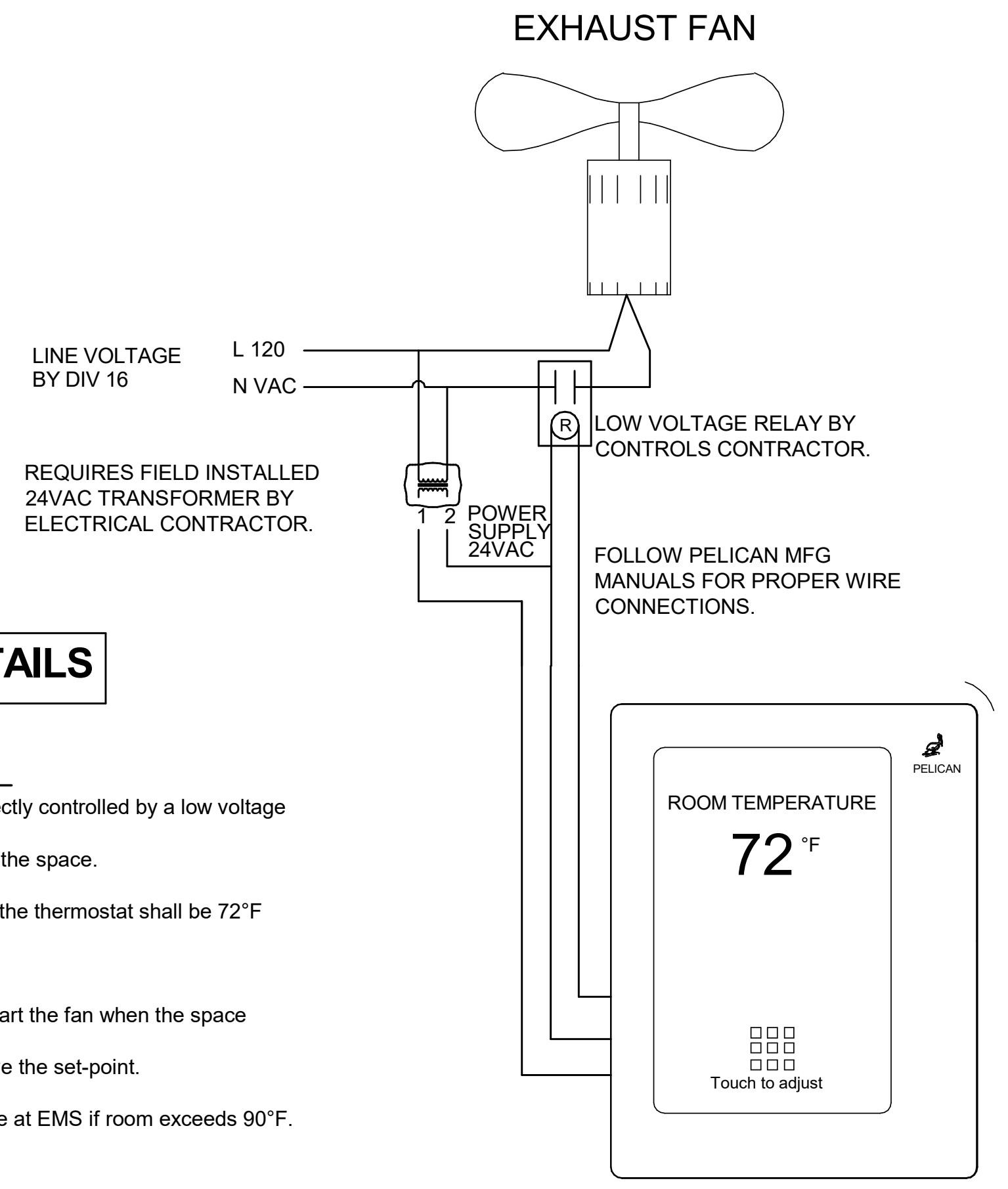
EXHAUST FAN OPERATION

1. System Overview
   a. Each exhaust fan will be directly controlled by its own dedicated EMS (Energy Management System) unitary controller.
2. Occupancy Schedule
   a. Exhaust fan shall be scheduled to operate during normally-occupied hours
3. Unoccupied Schedule
   a. Exhaust fan shall be scheduled to be disabled during normally-unoccupied hours..
4. Alarm
   a. If the exhaust fan fails to run while commanded to, an alarm shall be annunciated at the EMS.


EXHAUST FAN
LINE VOLTAGE PROVIDED BY DIV 26
VAC N
120 L
ALL LINE VOLTAGE WIRE WITH CONNECTION POINT BY DIV 26
VERIS HAWKEYE H608 CT WITH DRY-CONTACT OUTPUT INSTALLED AND WIRED BY CONTROLS CONTRACTOR
QUICK CONNECTS TO BE ADDED TO WIRE BY DIV 26
R1
R2
R3
R4
R5
PELICAN PM5-120/240 INSTALLED AND WIRED BY CONTROLS CONTRACTOR
D C R Y W G Y2 W2
PELICAN PM5-120/240
LOW VOLTAGE WIRE BY CONTROLS CONTRACTOR
LOW VOLTAGE WIRE BY CONTROLS CONTRACTOR.
D C R
R C D
PELICAN TA1
PELICAN TA1 INSTALLED AND WIRED BY CONTROLS CONTRACTOR
PELICAN PM5-120/240 ANTENNA INSTALLED AND WIRED BY CONTROLS CONTRACTOR
PELICAN PM5 ANTENNA

C EXHAUST FAN CONTROL DIAGRAM

SCALE: NONE


EXHAUST FAN
LINE VOLTAGE BY DIV 16
L 120
N VAC
R
LOW VOLTAGE RELAY BY CONTROLS CONTRACTOR.
REQUIRES FIELD INSTALLED 24VAC TRANSFORMER BY ELECTRICAL CONTRACTOR.
1 2 POWER SUPPLY 24VAC
FOLLOW PELICAN MFG MANUALS FOR PROPER WIRE CONNECTIONS.
PELICAN
ROOM TEMPERATURE
72 °F
Touch to adjust

WIRING DETAILS

EXHAUST FAN OPERATION

1. Exhaust fan will be directly controlled by a low voltage thermostat mounted in the space.
2. The initial set-point for the thermostat shall be 72°F (adj).
3. The thermostat shall start the fan when the space temperature rises above the set-point.
4. Alarm shall be generate at EMS if room exceeds 90°F.

D ICE MACHINE ROOM EXHAUST FAN CONTROL DIAGRAM

SCALE: NONE

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SHEET TITLE

**CONTROL
DIAGRAMS**

SHEET NUMBER

M-4.1

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6/3/2025 5:20:01 PM

PLUMBING LOCAL CONNECTION SCHEDULE

MARK	CONECTION SIZES				FLOW RATE	FLUSH VOLUME	MANUFACTURER & MODEL #	DESCRIPTION
	SS	VENT	DCW	DHW				
P-1	4"	2"	1-1/4"	-	-	1.28 GPF	KOHLER K-96057-SS / ROYAL 111 SFSM-1.28	(ADA) FLOOR MOUNTED WATER CLOSET (SAD FOR CLEARANCES)
P-1A	4"	2"	1-1/4"	-	-	1.28 GPF	KOHLER K-84325-SS / ROYAL 111 SFSM-1.28	WALL MOUNTED WATER CLOSET (SAD FOR MOUNTING HEIGHT & CLEARANCES)
P-1B	4"	2"	1-1/4"	-	-	1.28 GPF	KOHLER K-84325-SS / ROYAL 111 SFSM-1.28	(ADA) WALL MOUNTED WATER CLOSET (SAD FOR MOUNTING HEIGHT & CLEARANCES)
P-2	2"	1 1/2"	3/4"	-	0.5 GPM	-	KOHLER K-2005 / CHICAGO EVR-A12A11ABCP/ THERMOSTATIC MIXING VALVE	WALL MOUNTED LAVATORY (SAD FOR MOUNTING HEIGHT) DCW/DHW METERING FAUCET TO RUN FOR 10 SECONDS
P-2A	2"	1 1/2"	3/4"	-	0.5 GPM	-	KOHLER K-2005 / CHICAGO EVR-A12A11ABCP/ THERMOSTATIC MIXING VALVE	(ADA) WALL MOUNTED LAVATORY (SAD FOR MOUNTING HEIGHT) DCW/DHW METERING FAUCET TO RUN FOR 10 SECONDS
P-3	2"	1 1/2"	1"Ø	-	-	0.125 GPF	KOHLER K-5452-ET / SLOAN 189 SSFSM-0.125	WALL MOUNTED URINAL
P-3A	2"	1 1/2"	1"Ø	-	-	0.125 GPF	KOHLER K-5452-ET / SLOAN 189 SSFSM-0.125	(ADA) WALL MOUNTED URINAL (SAD FOR MOUNTING HEIGHT)
P-4	3"	2"	3/4"	3/4"	12 GPM	-	FLORESTONE 96/ CHICAGO 897-CP	FLOOR MOUNTED JANITOR SINK
P-6	2"	1 1/2"	3/4"	-	-	-	ELKAY MODEL LZWSSM	(ADA) BOTTLE FILLER
P-7	-	-	3/4"	3/4"	1.5 GPM	-	BRADLEY 1C-EF-S15-LB	SHOWER HEAD AND MIXING STATION
P-7A	-	-	3/4"	3/4"	1.5 GPM	-	BRADLEY 1C-EF-A36	(ADA) SHOWER HEAD AND MIXING STATION
FD-1	3"	2"	1/2"	-	-	-	JAY R SMITH FIGURE 2005Y(A)-03-06DIA-AHP-P075	FLOOR DRAIN WITH TRAP PRIMMER
FS	3"	2"	1/2"	-	-	-	ZURN Z1901-P-3	FLOOR SINK W/ TRAP PRIMMER
HB-1	-	-	1/2"	-	-	-	CHICAGO 293-E27CP	INTERIOR HOSE BIBB

REMARKS:
1. CW FIXTURES AND VALVES SHALL BE AB1953 COMPLIANT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, HEIGHT, AND NUMBER OF PLUMBING FIXTURES.
3. REFER TO PLUMBING SPECS FOR MODEL AND ASSESORIES.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUF.	MODEL	TYPE	STORAGE CAPACITY	RECOVERY @ 60F° RISE	ELECTRICAL			OPER. WEIGHT	LOCATION	REMARKS
						V-Ø-HZ	No. Elements	WATTS			
EWH G1	A.O. SMITH	DRE-80-15	TANK	80 gal	104 GPH	208-1-60	3	15,000 W	938 lb	MECH G10S	1,2,4,6,7,8
EWH G2	A.O. SMITH	DEL 10	TANK	10 gal	17 GPH	208-1-60	1	2,500 W	140 lb	CUSTODIAL G08S	1,2,3,4,5
EWH G3	A.O. SMITH	DEL 10	TANK	10 gal	17 GPH	208-1-60	1	2,500 W	140 lb	CUSTODIAL G08N	1,2,3,4,5
EWH G4	A.O. SMITH	DRE-80-15	TANK	80 gal	104 GPH	208-1-60	3	15,000 W	938 lb	MECH G10N	1,2,4,6,7,8

REMARKS:
1. PROVIDE FACTORY INSTALLED AUTOMATIC TEMPERATURE CONTROL WITH SAFETY CUTOFF TO PREVENT OVERHEATING.
2. PROVIDE WITH ST-12 EXPANSION TANK.
3. PROVIDE WITH HOLDRITE QUICK STAND #30-SWHP-WM WALL MOUNTED MANUFACTURER ENGINEERED EQUIPMENT PLATFORM ASSEMBLY.
4. PROVIDE WITH HOLDRITE QUICK STRAP #QS-U ASSEMBLY
5. FOR WATER HEATER WALL HUNG SEE B/P-3.1
6. FOR WATER HEATER ON PEDESTAL SEE DETAIL A/P-3.1
7. PROVIDE WITH HOLDRITE QUICK STAND 34"x34" #40-s-34-u
8. PROVIDE WITH HOLDRITE QUICK PAN QP-30

RECIRCULATION PUMP SCHEDULE

MARK	MANUF.	MODEL	ELECTRICAL	TYPE.	FLOW (GPM)	HEAD	OPER. WEIGHT	LOCATION	REMARKS.
			V-Ø-HZ						
CP G1	GRUNDFOS	UP 26-99 SFC	115-1-60	IN-LINE	11.9	21.3	16 lb	MECH G10S	1
CP G4	GRUNDFOS	UP 26-99 SFC	115-1-60	IN-LINE	11.9	21.3	16 lb	MECH G10N	1

REMARKS:
1. FOR PIPING DIAGRAM SEE A/P-3.1

GIRLS LOCKER RM: FIXTURE UNITS CALCULATION SHEET

		Hot water (Instant?) ☐			HW TOTAL		CW		Waste	
Quantity	Fixture Description	Symbol	gph	FUnits	gph	FUnits	FUnits	TOTAL	FUnits	Total
0	Water Closet (FT)-Private	WC	0	0	0	0	2.5	0	6	0
10	Water Closet (FV)-Public	WC	0	0	0	0	5	50	6	60
0	Urinal (1 GPF)	UR	0	0	0	0	4	0	2	0
8	Lavatories	L	5	0.75	40	6	0.75	6	2	16
5	Shower	SH	25	1.5	125	7.5	1.5	7.5	2	10
0	Sink, Workroom	S	10	1.5	0	0	1.5	0	3	0
0	Sink, Special	S	5	1.5	0	0	1.5	0	2	0
0	Sink, Bench(Science Rm.)	S	20	0.75	0	0	0.75	0	2	0
0	Sink, Surgeon, Scrub	S	50	3	0	0	3	0	2	0
0	Sterilizer	ST	10	3.75	0	0	3.75	0	FS	-
0	Sanitizer	SAN	10	1.5	0	0	1.5	-	FS	-
0	Washer/Utensil Sterilizer	WUS	10	1.5	0	0	1.5	0	FS	-
0	Washer, glassware	GW	15	3	0	0	3	0	2	0
1	Service/Janitor sink	SS	20	2.25	20	2.25	2.25	2.25	3	3
8	Floor drain, 2"	FD	-	-	-	-	-	-	2	16
0	Floor Sink, 2"	FS	-	-	-	-	-	-	2	0
4	Drinking Fountain	DF	-	-	-	-	0.5	2	0.5	2
0	Dishwasher	DW	104	3	0	0	3	0	4	0
4	Hose Bibb	HB	-	-	-	-	2.5	10	-	-
0	Emerg.Sh/Eyewash-FD	EW/ES	-	-	-	-	10	0	2	0
0	3-Compartment Sink	3C	90	4.5	0	0	4.5	0	6	0
0	2-Compartment Sink	2C	60	2.25	0	0	2.25	0	4	0
0	Sink, Hand	HS	20	2.25	0	0	2.25	0	2	0
0	Pre-rinse spray	PS	50	2.25	0	0	2.25	0	FS	-
0	Clotheswasher	CW	28	4	0	0	4	0	3	0
					HW Total	15.75	CW Total	77.75	SS Total	107
					GPM	11	GPM	62	Size 2%	4
				TOTAL	185	-	Size	-	Size 1%	

BOYS LOCKER RM: FIXTURE UNITS CALCULATION SHEET

		Hot water (Instant?) ☐			HW TOTAL		CW		Waste	
Quantity	Fixture Description	Symbol	gph	FUnits	gph	FUnits	FUnits	TOTAL	FUnits	Total
0	Water Closet (FT)-Private	WC	0	0	0	0	2.5	0	6	0
7	Water Closet (FV)-Public	WC	0	0	0	0	5	35	6	42
8	Urinal (1 GPF)	UR	0	0	0	0	4	32	2	16
9	Lavatories	L	5	0.75	45	6.75	0.75	6.75	2	18
4	Shower	SH	25	1.5	100	6	1.5	6	2	8
0	Sink, Workroom	S	10	1.5	0	0	1.5	0	3	0
0	Sink, Special	S	5	1.5	0	0	1.5	0	2	0
0	Sink, Bench(Science Rm.)	S	20	0.75	0	0	0.75	0	2	0
0	Sink, Surgeon, Scrub	S	50	3	0	0	3	0	2	0
0	Sterilizer	ST	10	3.75	0	0	3.75	0	FS	-
0	Sanitizer	SAN	10	1.5	0	0	1.5	-	FS	-
0	Washer/Utensil Sterilizer	WUS	10	1.5	0	0	1.5	0	FS	-
0	Washer, glassware	GW	15	3	0	0	3	0	2	0
1	Service/Janitor sink	SS	20	2.25	20	2.25	2.25	2.25	3	3
10	Floor drain, 2"	FD	-	-	-	-	-	-	2	20
0	Floor Sink, 2"	FS	-	-	-	-	-	-	2	0
4	Drinking Fountain	DF	-	-	-	-	0.5	2	0.5	2
0	Dishwasher	DW	104	3	0	0	3	0	4	0
5	Hose Bibb	HB	-	-	-	-	2.5	12.5	-	-
0	Emerg.Sh/Eyewash-FD	EW/ES	-	-	-	-	10	0	2	0
0	3-Compartment Sink	3C	90	4.5	0	0	4.5	0	6	0
0	2-Compartment Sink	2C	60	2.25	0	0	2.25	0	4	0
0	Sink, Hand	HS	20	2.25	0	0	2.25	0	2	0
0	Pre-rinse spray	PS	50	2.25	0	0	2.25	0	FS	-
0	Clotheswasher	CW	28	4	0	0	4	0	3	0
					HW Total	15	CW Tota	96.5	SS Total	109
					GPM	11	GPM	68	Size 2%	4
				TOTAL	165	-	Size	-	Size 1%	

Applicable Code: 2022 CBC 04/11/2023 Revised: 04/11/2023

MEP Componet Anchorage Note

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

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

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

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.

B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

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

MEP Distribution System Bracing Note for Piping, Ductwork, and Electrical Conduit

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

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. The MEP design professional engineer responsible for content on these sheets has verified that the design methods identified below are in accordance with DSA IR 16-13

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

MP ☒ MD ☐ PP ☒ E ☐ Option 1: Project-Specific Design.

MP ☐ MD ☐ PP ☐ E ☐ Option 2: Design Based on OSHPD OPM, Within Project Submittal.

MP ☐ MD ☐ PP ☐ E ☐ Option 3: Design Based on OSHPD OPM, Deferred Submittal.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
X X		EQUIPMENT TYPE EQUIPMENT NUMBER
X X-X		DETAIL / DRAWING NUMBER SHEET NUMBER
X-XX		FIXTURE TYPE/NUMBER
	(N)	NEW PLUMBING AND PIPING SHOWN HEAVY
	(E)	EXISTING PLUMBING AND PIPING SHOWN LIGHT
	SS	SANITARY WASTE ABOVE GROUND
	SS	SANITARY WASTE BELOW GROUND
	GW	GREASE WASTE BELOW GROUND
	V	VENT PIPE
	DCW	DOMESTIC COLD WATER PIPE
	DHW	DOMESTIC HOT WATER PIPE
	DHWR	HOT WATER RETURN PIPE
CD	CD	CONDENSATE DRAIN
G	G	NATURAL GAS PIPE
RVD	RVD	RELIEF VALVE DISCHARGE
RWL	RWL	RAIN WATER LEADER
OD	OD	OVER FLOW DRAIN PIPE
VAC	VAC	VACUUM LINE
	GV	GATE VALVE
		GLOBE VALVE
	BV	BALL VALVE
	BFV	BUTTERFLY VALVE
	CV	CHECK VALVE
		BALANCING VALVE
		GAS COCK OR STOP
	PRV	PRESSURE REDUCING VALVE
	TV	TEMPERING VALVE
		STRAINER
		UNION
		PRESSURE GAUGE AND COCK
	P	PUMP
		THERMOMETER
	CO	CLEANOUT
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
		PRESSURE GUAGE WELL ONLY (PETE'S PLUG)
	HB	HOSE BIBB
		PIPE UP
		PIPE DOWN
		BRANCH TOP CONNECTION
		BRANCH BOTTOM CONNECTION
		BRANCH SIDE CONNECTION
		CAP ON END OF PIPE
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		VALVE IN RISER
		POINT OF CONNECTION
		POINT OF DEMOLITION
℄		CENTER LINE
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AFC	ABOVE FINISHED CEILING
	AP	ACCESS PANEL
	BFC	BELOW FINISHED CEILING
	BFF	BELOW FINISHED FLOOR
	CI	CAST IRON
	COTG	CLEANOUT TO GRADE
	DMV	DRAIN, WASTE, AND VENT
	DN	DOWN
	DW	DISHWASHER
	DWG	DRAWING
	(E)	EXISTING
	FCO	FLOOR CLEANOUT
	IE	INVERT ELEVATION
	IW	IN WALL
	MFR	MANUFACTURER
	(N)	NEW
	NIC	NOT IN CONTRACT
	NTS	NOT TO SCALE
	SA	SHOCK ABSORBER
	SAD	SEE ARCHITECTURAL DRAWINGS
	SCD	SEE CIVIL DRAWINGS
	SED	SEE ELECTRICAL DRAWINGS
	SMD	SEE MECHANICAL DRAWINGS
	SSD	SEE STRUCTURAL DRAWINGS
	TYP	TYPICAL
	UMC	UNIFORM MECHANICAL CODE
	UPC	UNIFORM PLUMBING CODE
	UNO	UNLESS NOTED OTHERWISE
	V	VENT
	VTR	VENT THROUGH ROOF
	WCO	WALL CLEANOUT
	WA	WATER HAMMER ARRESTOR

BLDG 'PLUMBING' SHEET LIST

P-1.1	PLUMBING SCHEDULES & LEGENDS
PD-2.1	PLUMBING WASTE AND VENT DEMOLITION PLAN - BLDG G
PD-2.2	PLUMBING WATER DEMOLITION PLAN - BLDG G
P-2.1	PLUMBING WASTE AND VENT PLAN - BLDG G
P-2.2	PLUMBING WATER PLAN - BLDG G
P-2.3	PLUMBING ROOF PLAN
P-2.4	PLUMBING - WASTE- BLDG G GIRLS LOCKER ROOM
P-2.5	PLUMBING - WATER- BLDG G GIRLS LOCKER ROOM
P-2.6	PLUMBING - WASTE- BLDG G BOYS LOCKER ROOM
P-2.7	PLUMBING - WATER- BLDG G BOYS LOCKER ROOM
P-3.1	PLUMBING DETAILS

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APP: 01-122019 INC:
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DATE: 6/24/2025

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MECHANICAL

**TENNYSON
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**BUILDING G
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HAYWARD UNIFIED
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DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: Author
DRAWING SCALE:
PTN: 61192-223 **FILE NO:** 1-H6

BID SET 2026
4.15.2026

SHEET TITLE

**PLUMBING
SCHEDULES &
LEGENDS**

SHEET NUMBER

P-1.1

6/3/2025 5:20:06 PM

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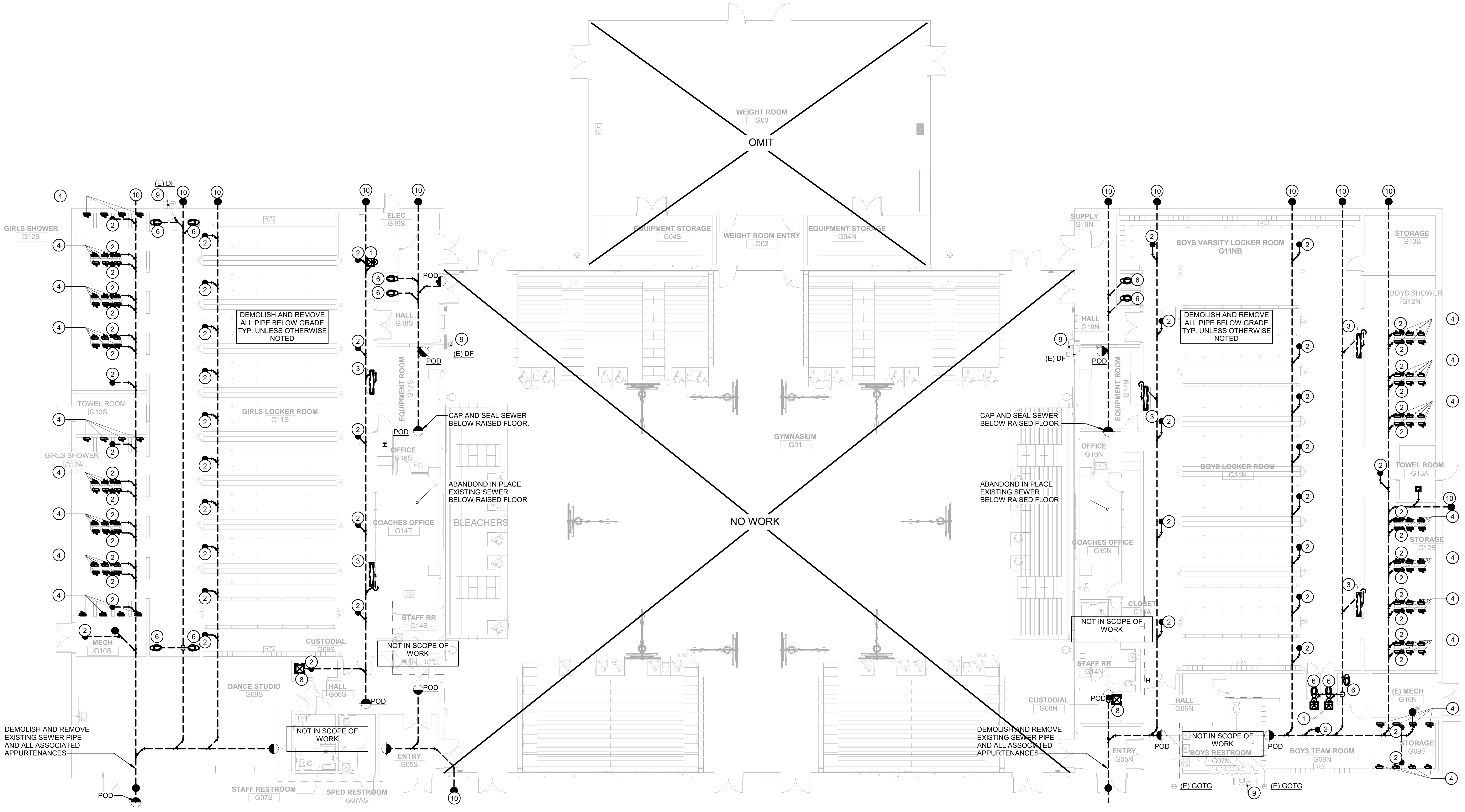

1 PLUMBING DEMOLITION - WASTE PLAN

3/32" = 1'-0"

GENERAL DEMOLITION NOTES

A. FOR PLUMBING GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET P-1.2

B. THIS CONTRACTOR SHALL RETAIN SPECIFIC EQUIPMENT AS DIRECTED BY OWNER AND DELIVER TO OWNER SPECIFIED LOCATION.

C. ALL EXISTING PLUMBING EQUIPMENT, PIPING, VALVES, CONTROLS, ETC. RENDERED USELESS BY THIS WORK SHALL BE DEMOLISHED AND REMOVED FROM THE SITE

D. LOCATION OF EXISTING SINK, PIPING, ETC. HAS BEEN BASED ON THE BEST AVAILABLE INFORMATION OBTAINABLE AT THE SITE AND THROUGH RECORD DRAWINGS. VERIFY EXACT LOCATIONS, SIZES, AND EXTENT OF EXISTING SYSTEMS PRIOR TO START OF DEMOLITION WORK.

E. ALL UNUSED PIPING ABOVE GRADE, AND ALL ASSOCIATED APPURTENANCES SHALL BE REMOVED COMPLETELY. ALL UNUSED PIPING BELOW GRADE SHALL BE CAPPED AND ABANDONED IN PLACE. CAP DEAD BRANCHES AS CLOSE AS POSSIBLE TO LIVE MAINS

F. PATCH ALL WALLS, CEILINGS, ROOF AND OTHER SURFACES TO MATCH EXISTING CONDITIONS.

G. ASBESTOS CONTAINING PRODUCTS MAY BE PRESENT IN THE EXISTING BUILDING CONSTRUCTION. IF SUSPECT MATERIALS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH ADDITIONAL WORK. THE CONTRACTOR SHALL IMMEDIATELY POST NOTICES AND TAKE PRECAUTIONS NECESSARY TO ENSURE THE HEALTH AND SAFETY OF ALL WORKERS, THE STAFF, AND THE PUBLIC

SHEET DEMOLITION NOTES

① DEMOLISH (E) LAV. PREPARE UTILITY CONNECTIONS FOR NEW FIXTURES WHERE APPLICABLE. WHERE NOT REPLACING FIXTURE, DEMOLISH AND CAP UNUSED PIPING PER GENERAL DEMOLITION NOTE F

② DEMOLISH (E) FLOOR DRAIN AND ALL ASSOCIATED APPURTENANCES.

③ DEMOLISH (E) DRINKING FOUNTAIN. PREPARE UTILITY CONNECTIONS FOR NEW FIXTURES WHERE APPLICABLE. WHERE NOT REPLACING FIXTURE, DEMOLISH AND CAP UNUSED PIPING PER GENERAL DEMOLITION NOTE F

④ DEMOLISH (E) SHOWER HEAD, PIPING, MIXING VALVE AND ALL THE ASSOCIATED APPURTENANCES. DEMOLISH AND CAP UNUSED PIPING.

⑤ (E) SHOWER HEAD, PIPING, MIXING VALVE AND ALL THE ASSOCIATED APPURTENANCES TO REMAIN. SEE NEW PLANS FOR RECONNECTION TO NEW WATER PIPING.

⑥ DEMOLISH (E) WATER CLOSET. PREPARE UTILITY CONNECTIONS FOR NEW FIXTURES WHERE APPLICABLE. WHERE NOT REPLACING FIXTURE, DEMOLISH AND CAP UNUSED PIPING PER GENERAL DEMOLITION NOTE F

⑦ DEMOLISH (E) URINAL. PREPARE UTILITY CONNECTIONS FOR NEW FIXTURES WHERE APPLICABLE. WHERE NOT REPLACING FIXTURE, DEMOLISH AND CAP UNUSED PIPING PER GENERAL DEMOLITION NOTE F

⑧ DEMOLISH (E) JANITORIAL SINK AND ALL ASSOCIATED APPURTENANCES. PREPARE AREA FOR NEW FIXTURE AND UTILITIES.

⑨ (E) DRINKING FOUNTAIN / BOTTLE FILLER, PROTECT AND PREPARE (E) UTILITY CONNECTIONS FOR RECONNECTION TO SEWER .

⑩ ABANDON PIPE REMOVE (E) COTG SEAL AND REPAIR ASPHALT OR CONCRETE PAD.

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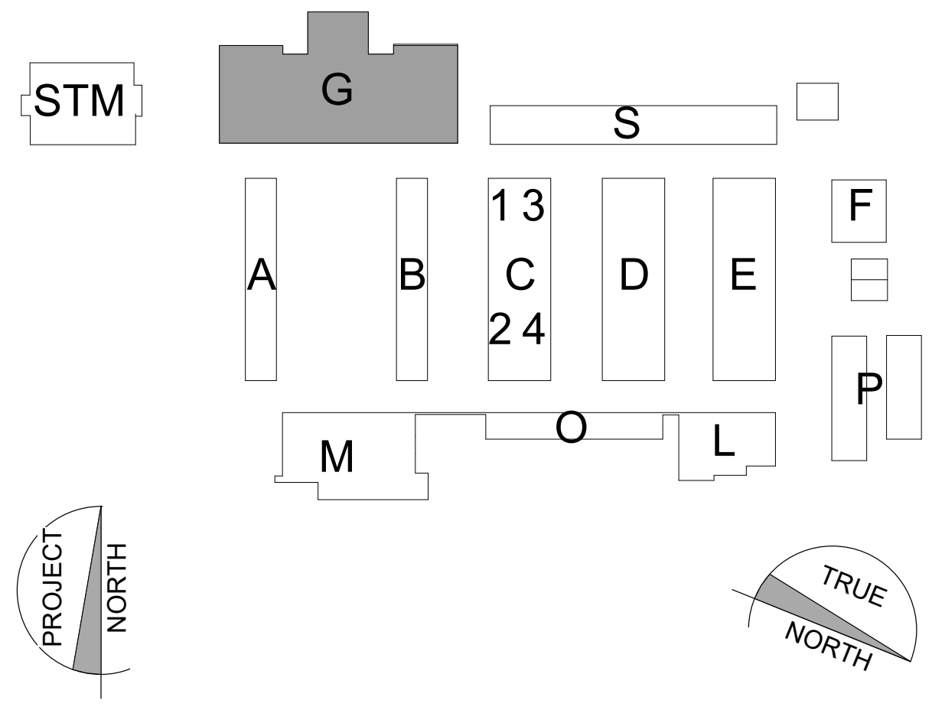
DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	Author
DRAWING SCALE:	3/32" = 1'-0"
PTN: 61192-223	**FILE NO:** 1-H6

BID SET 2026

4.15.2026

KEY PLAN



SHEET TITLE

PLUMBING WASTE AND VENT DEMOLITION PLAN - BLDG G

SHEET NUMBER

PD-2.1

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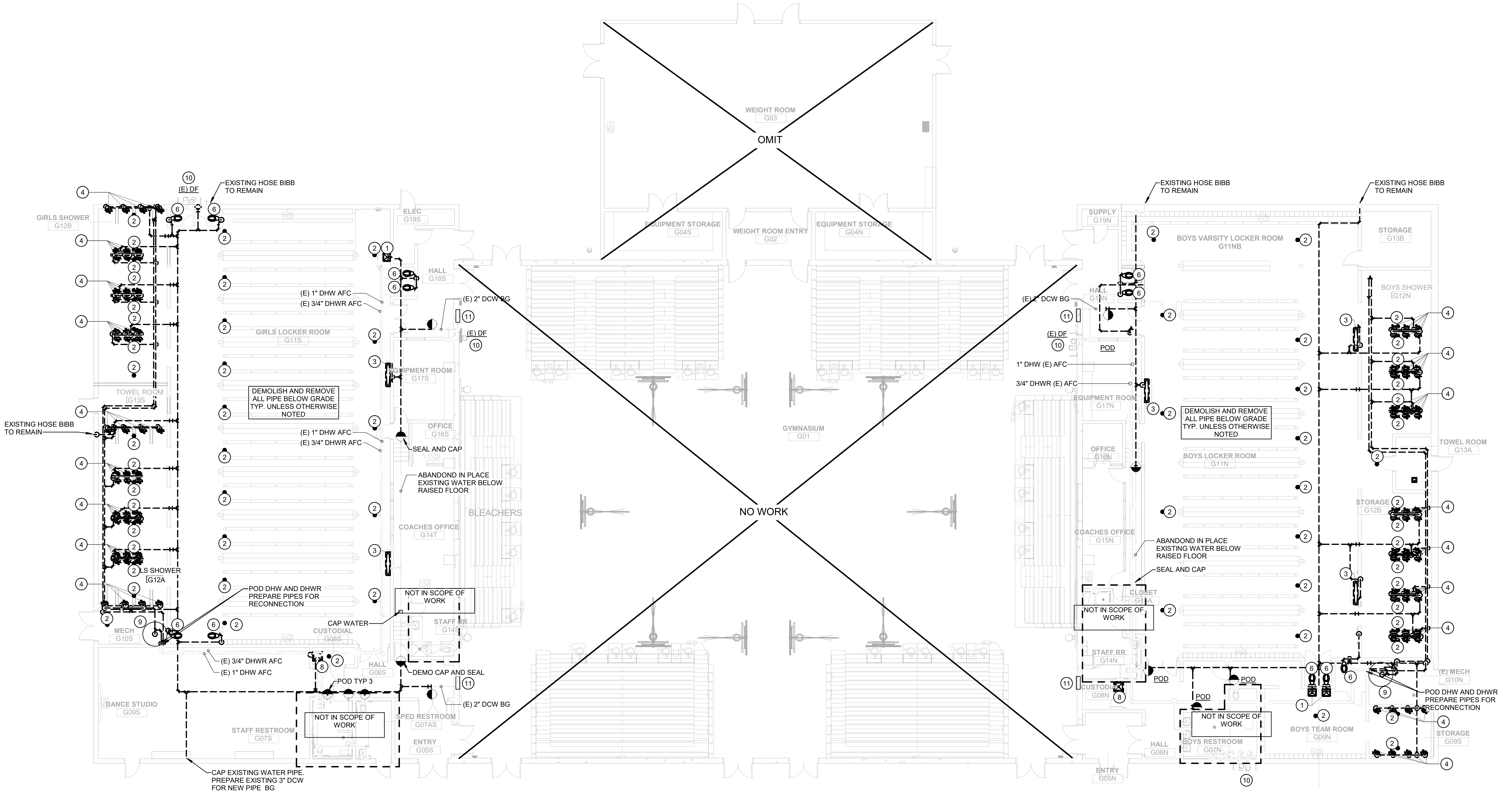


1 PLUMBING DEMOLITION - WATER PLAN

3/32" = 1'-0"

GENERAL DEMOLITION NOTES

A. FOR PLUMBING GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET P-1.2

B. THIS CONTRACTOR SHALL RETAIN SPECIFIC EQUIPMENT AS DIRECTED BY OWNER AND DELIVER TO OWNER SPECIFIED LOCATION.

C. ALL EXISTING PLUMBING EQUIPMENT, PIPING, VALVES, CONTROLS, ETC. RENDERED USELESS BY THIS WORK SHALL BE DEMOLISHED AND REMOVED FROM THE SITE

D. LOCATION OF EXISTING SINK, PIPING, ETC. HAS BEEN BASED ON THE BEST AVAILABLE INFORMATION OBTAINABLE AT THE SITE AND THROUGH RECORD DRAWINGS. VERIFY EXACT LOCATIONS, SIZES, AND EXTENT OF EXISTING SYSTEMS PRIOR TO START OF DEMOLITION WORK.

E. ALL UNUSED PIPING ABOVE GRADE, AND ALL ASSOCIATED APPURTENANCES SHALL BE REMOVED COMPLETELY. ALL UNUSED PIPING BELOW GRADE SHALL BE CAPPED AND ABANDONED IN PLACE. CAP DEAD BRANCHES AS CLOSE AS POSSIBLE TO LIVE MAINS

F. PATCH ALL WALLS, CEILINGS, ROOF AND OTHER SURFACES TO MATCH EXISTING CONDITIONS.

G. ASBESTOS CONTAINING PRODUCTS MAY BE PRESENT IN THE EXISTING BUILDING CONSTRUCTION. IF SUSPECT MATERIALS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH ADDITIONAL WORK. THE CONTRACTOR SHALL IMMEDIATELY POST NOTICES AND TAKE PRECAUTIONS NECESSARY TO ENSURE THE HEALTH AND SAFETY OF ALL WORKERS, THE STAFF, AND THE PUBLIC

SHEET DEMOLITION NOTES

① DEMOLISH (E) LAV. PREPARE UTILITY CONNECTIONS FOR NEW FIXTURES WHERE APPLICABLE. WHERE NOT REPLACING FIXTURE, DEMOLISH AND CAP UNUSED PIPING PER GENERAL DEMOLITION NOTE F

② DEMOLISH (E) FLOOR DRAIN. CAP ABANDONED PIPING BG.

③ DEMOLISH (E) DRINKING FOUNTAIN. PREPARE UTILITY CONNECTIONS FOR NEW FIXTURES WHERE APPLICABLE. WHERE NOT REPLACING FIXTURE, DEMOLISH AND CAP UNUSED PIPING PER GENERAL DEMOLITION NOTE F

④ DEMOLISH (E) SHOWER HEAD, PIPING, MIXING VALVE AND ALL THE ASSOCIATED APPURTENANCES. DEMOLISH AND CAP UNUSED PIPING.

⑤ (E) SHOWER HEAD, PIPING, MIXING VALVE AND ALL THE ASSOCIATED APPURTENANCES TO REMAIN. SEE NEW PLANS FOR RECONNECTION TO NEW WATER PIPING.

⑥ DEMOLISH (E) WATER CLOSET. PREPARE UTILITY CONNECTIONS FOR NEW FIXTURES WHERE APPLICABLE. WHERE NOT REPLACING FIXTURE, DEMOLISH AND CAP UNUSED PIPING PER GENERAL DEMOLITION NOTE F

⑦ NOT IN USE

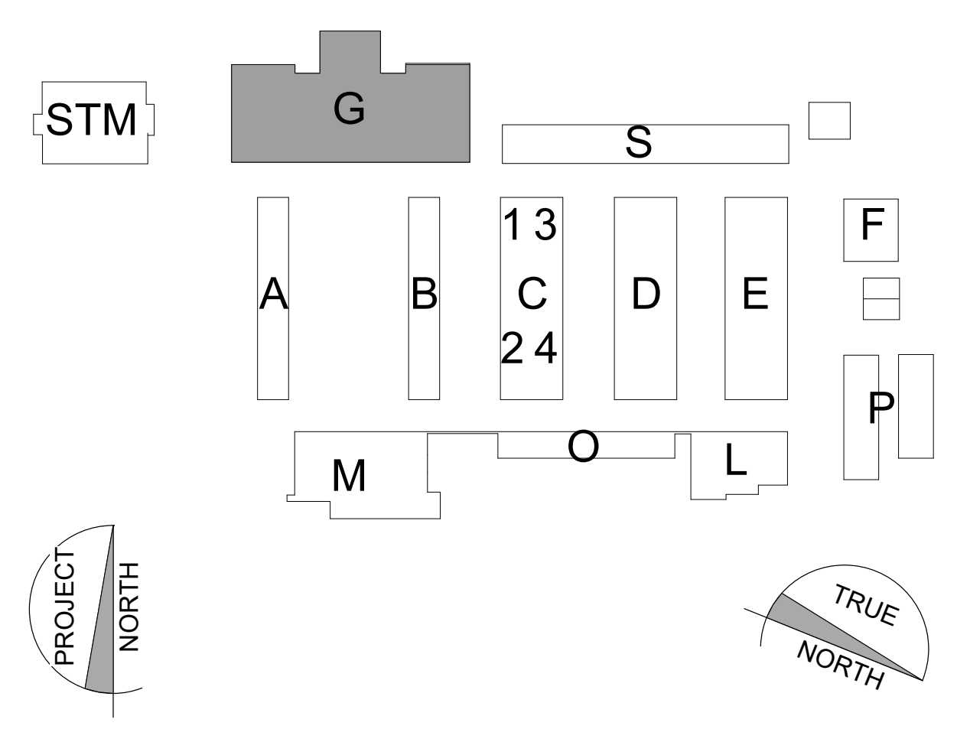
⑧ DEMOLISH (E) JANITORIAL SINK.

⑨ DEMOLISH AND REMOVE EXISTING DOMESTIC HOT WATER HEATER, RECIRCULATION PUMP, PIPES, VALVE AND ALL ASSOCIATED APPURTENANCES.

⑩ (E) DRINKING FOUNTAIN / BOTTLE FILLER, PROTECT AND PREPARE (E) UTILITY CONNECTIONS FOR RECONNECTION TO NEW WATER PIPE .

⑪ (E) FIRE HOSE CABINET TO REMAIN, PROTECT.

KEY PLAN



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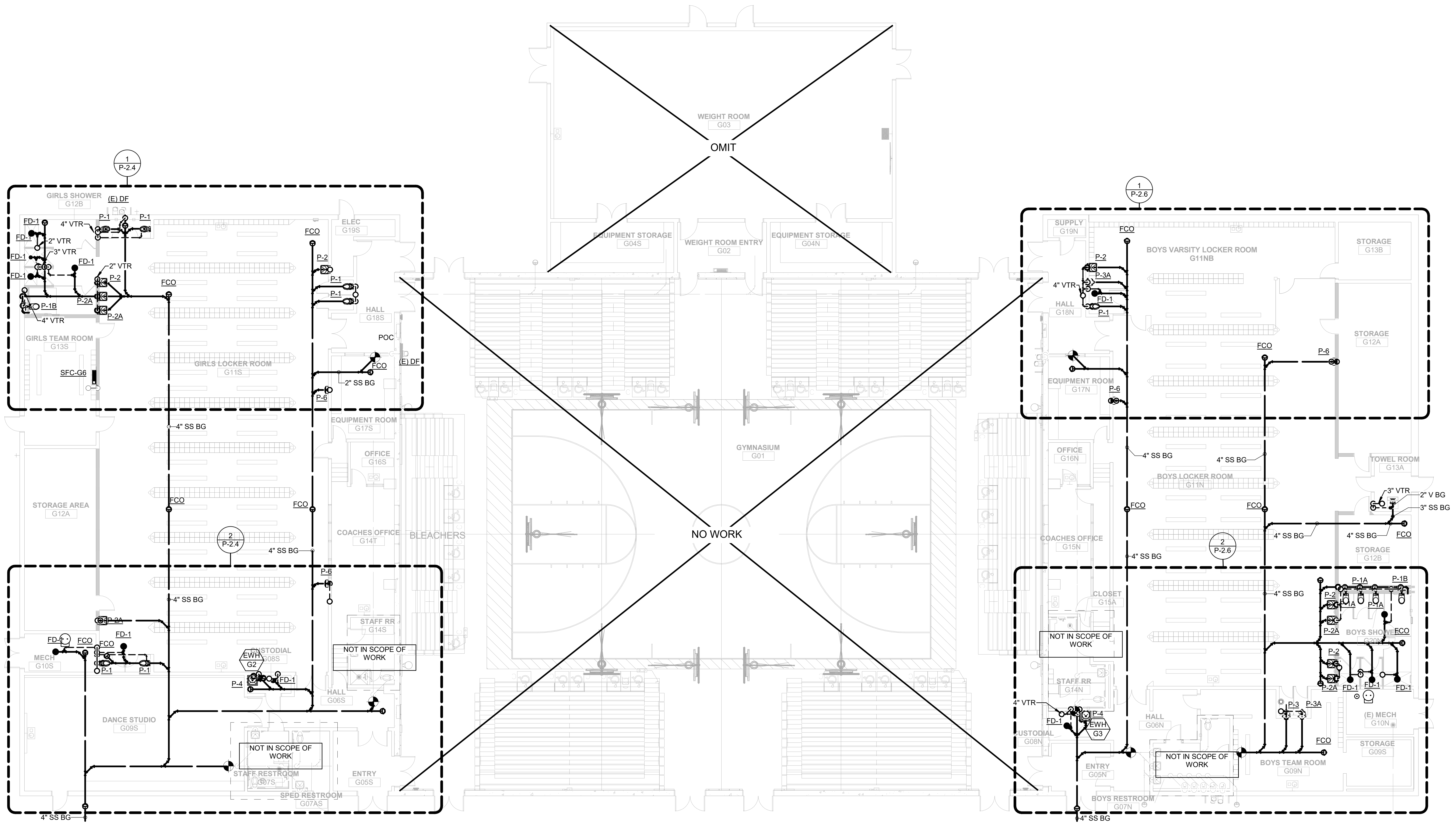
SHEET TITLE

PLUMBING WATER DEMOLITION PLAN - BLDG G

SHEET NUMBER

PD-2.2



1 PLUMBING WASTE AND VENT

3/32" = 1'-0"

GENERAL NOTES

A. FOR PLUMBING GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET P-1.1

B. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE PLUMBING WORK WITH OTHER TRADES.

C. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.

D. PROVIDE WALL CLEANOUTS FOR SINKS AND URINALS AS REQUIRED.

E. FOR ACCESSIBLE WATER CLOSETS, LOCATE VALVE HANDLE ON THE ACCESSIBLE SIDE PER ACCESSIBLE REQUIREMENTS.

F. ALL UNDERGROUND AND BELOW SLAB PIPING SHALL BE INSTALLED NO LESS THAN 12 INCHES FROM FINISH FLOOR. ALL PIPING THROUGH SLAB, BURIED OR UNDERNEATH FOUNDATION SHOULD BE COORDINATED WITH ALL STRUCTURAL FOOTINGS AND FOUNDATIONS. PIPE SHOULD BE OFFSET TO AVOID CONTACT WITH FOOTINGS AND FOUNDATION WALLS. IF PIPING MUST RUN UNDERNEATH A FOOTING OR THROUGH A FOUNDATION WALL, THE PIPE MUST BE INSTALLED PER SSD

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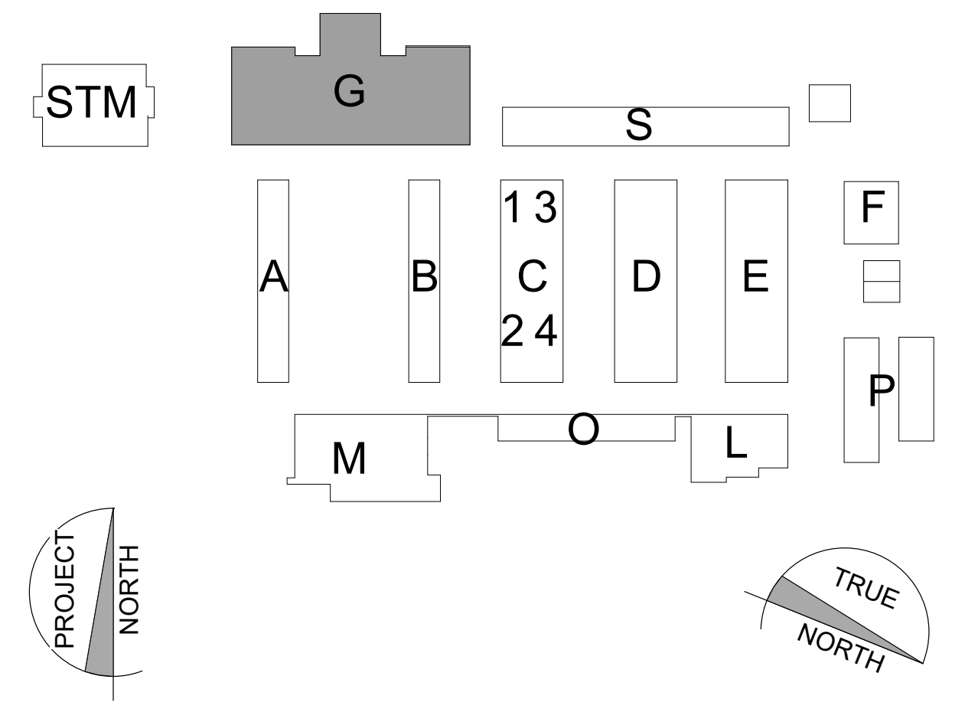
H. LOCATION OF EXISTING FIXTURES, PIPING, ETC. HAS BEEN BASED ON THE BEST AVAILABLE INFORMATION OBTAINABLE AT THE SITE AND THROUGH RECORD DRAWINGS. VERIFY EXACT LOCATIONS, SIZES, AND EXTENT OF EXISTING SYSTEMS PRIOR TO START OF DEMOLITION WORK AND INSTALLATION OF NEW PLUMBING.

KEY PLAN



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APP: 01-122019 INC:
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DATE: 6/24/2025

QUATTROCCHI KWOK
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NO. 31600
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STATE OF CALIFORNIA

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00

DRAWN BY: Author

DRAWING SCALE: 3/32" = 1'-0"

PTN: 61192-223 **FILE NO:** 1-H6

BID SET 2026

4.15.2026

SHEET TITLE

PLUMBING WASTE AND VENT PLAN - BLDG G

SHEET NUMBER

P-2.1

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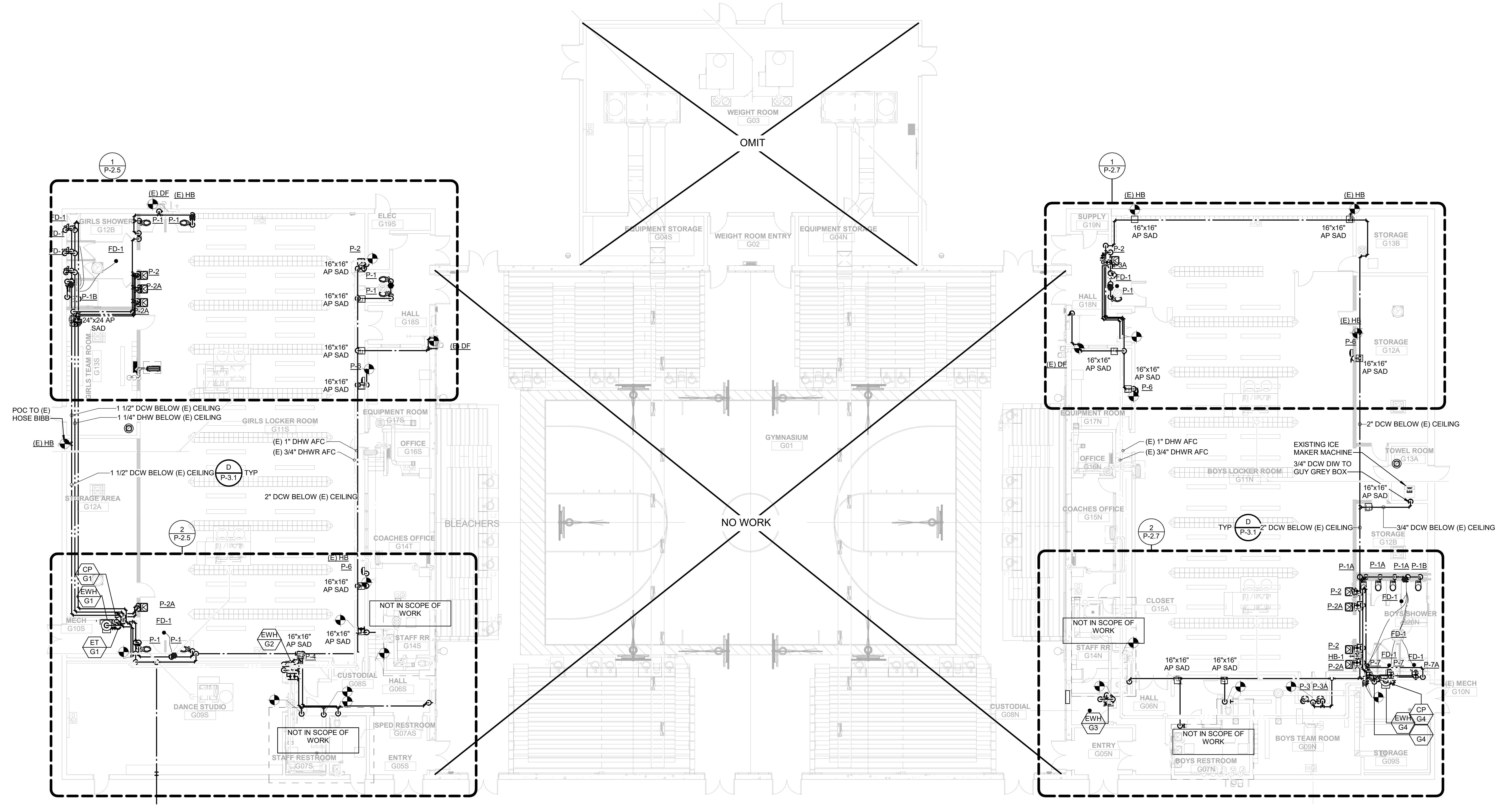

1 PLUMBING WATER PLAN

3/32" = 1'-0"

GENERAL NOTES

- A. FOR PLUMBING GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET P-1.1
- B. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE PLUMBING WORK WITH OTHER TRADES.
- C. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.
- D. PROVIDE WALL CLEANOUTS FOR SINKS AND URINALS AS REQUIRED.
- E. FOR ACCESSIBLE WATER CLOSETS, LOCATE VALVE HANDLE ON THE ACCESSIBLE SIDE PER ACCESSIBLE REQUIREMENTS.
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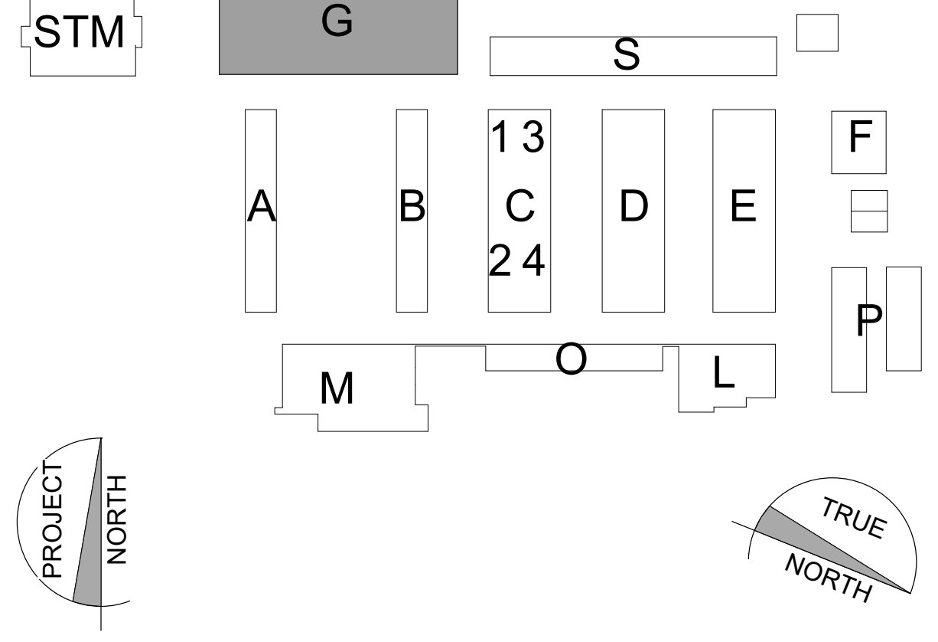
KEY PLAN



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ARCH PROJECT NO:	1910.00
DRAWN BY:	Author
DRAWING SCALE:	3/32" = 1'-0"
PTN: 61192-223	**FILE NO:** 1-H6

BID SET 2026

4.15.2026

SHEET TITLE

**PLUMBING
WATER PLAN -
BLDG G**

SHEET NUMBER

P-2.2

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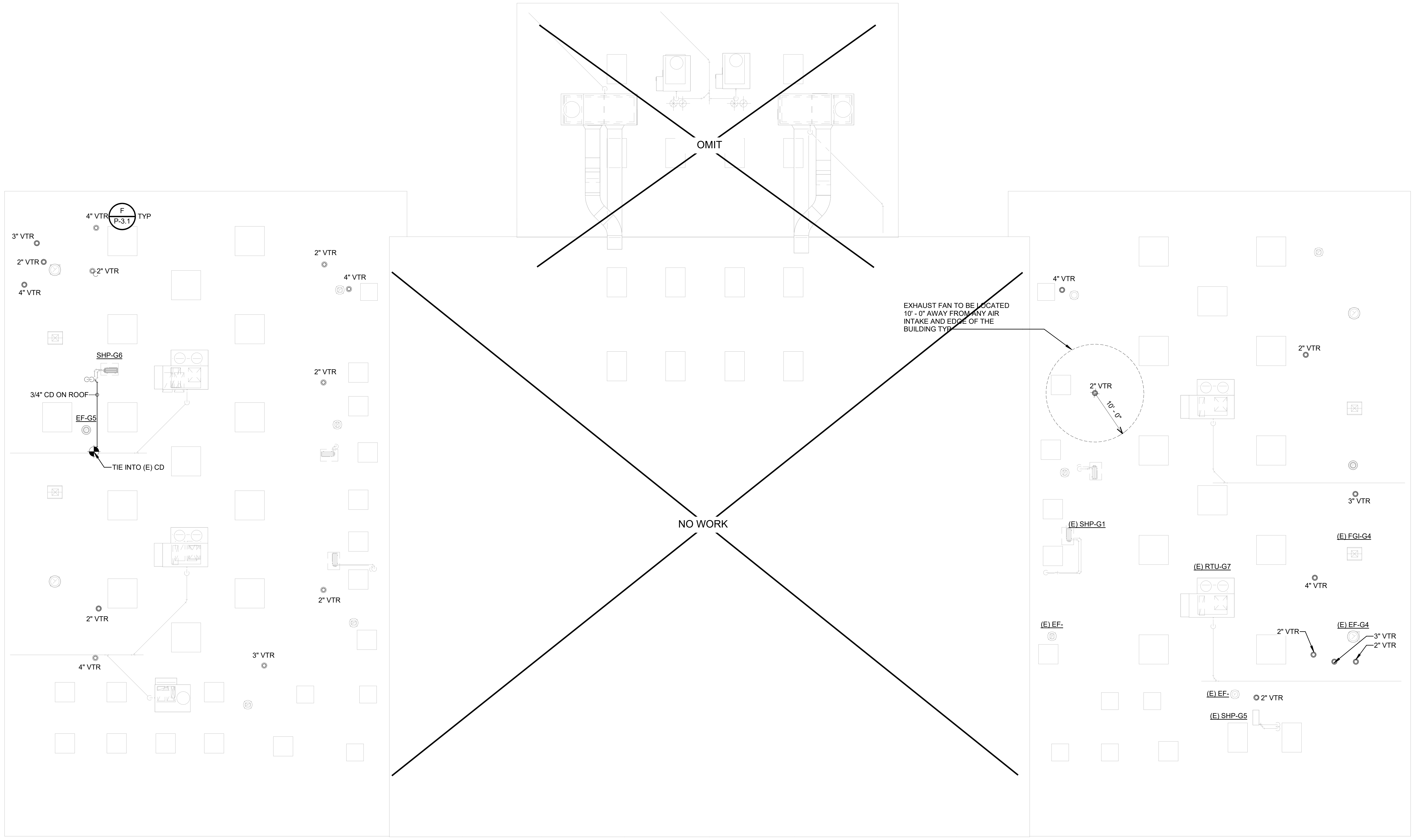

1 PLUMBING ROOF PLAN

3/32" = 1'-0"

GENERAL NOTES

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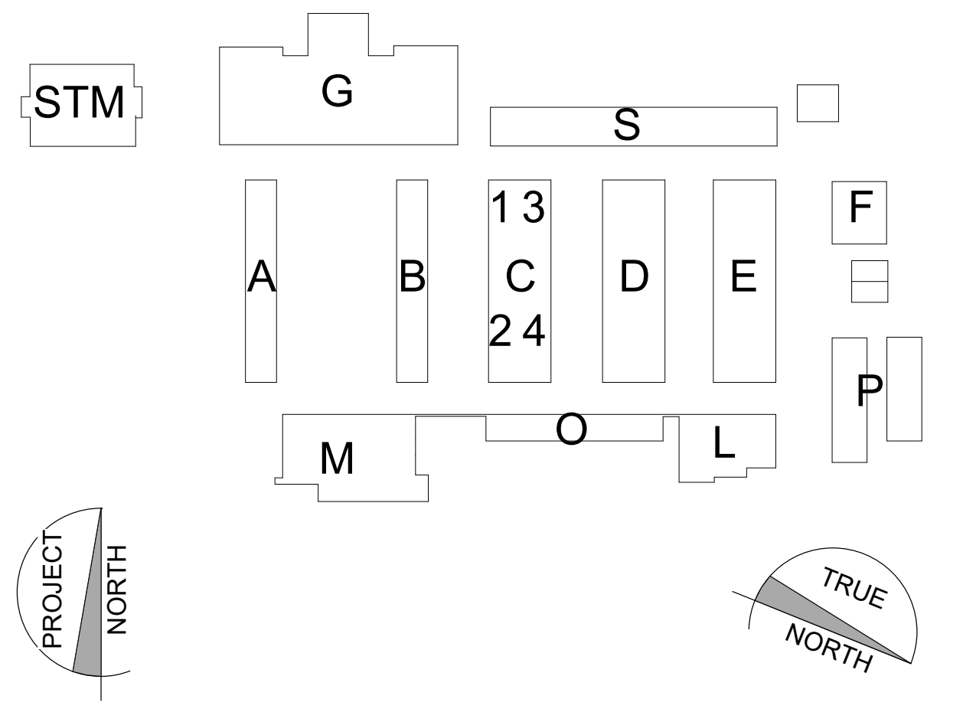
KEY PLAN



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ARCH PROJECT NO:	1910.00
DRAWN BY:	Author
DRAWING SCALE:	3/32" = 1'-0"
PTN: 61192-223	**FILE NO:** 1-H6

BID SET 2026

4.15.2026

SHEET TITLE

PLUMBING ROOF PLAN

SHEET NUMBER

P-2.3

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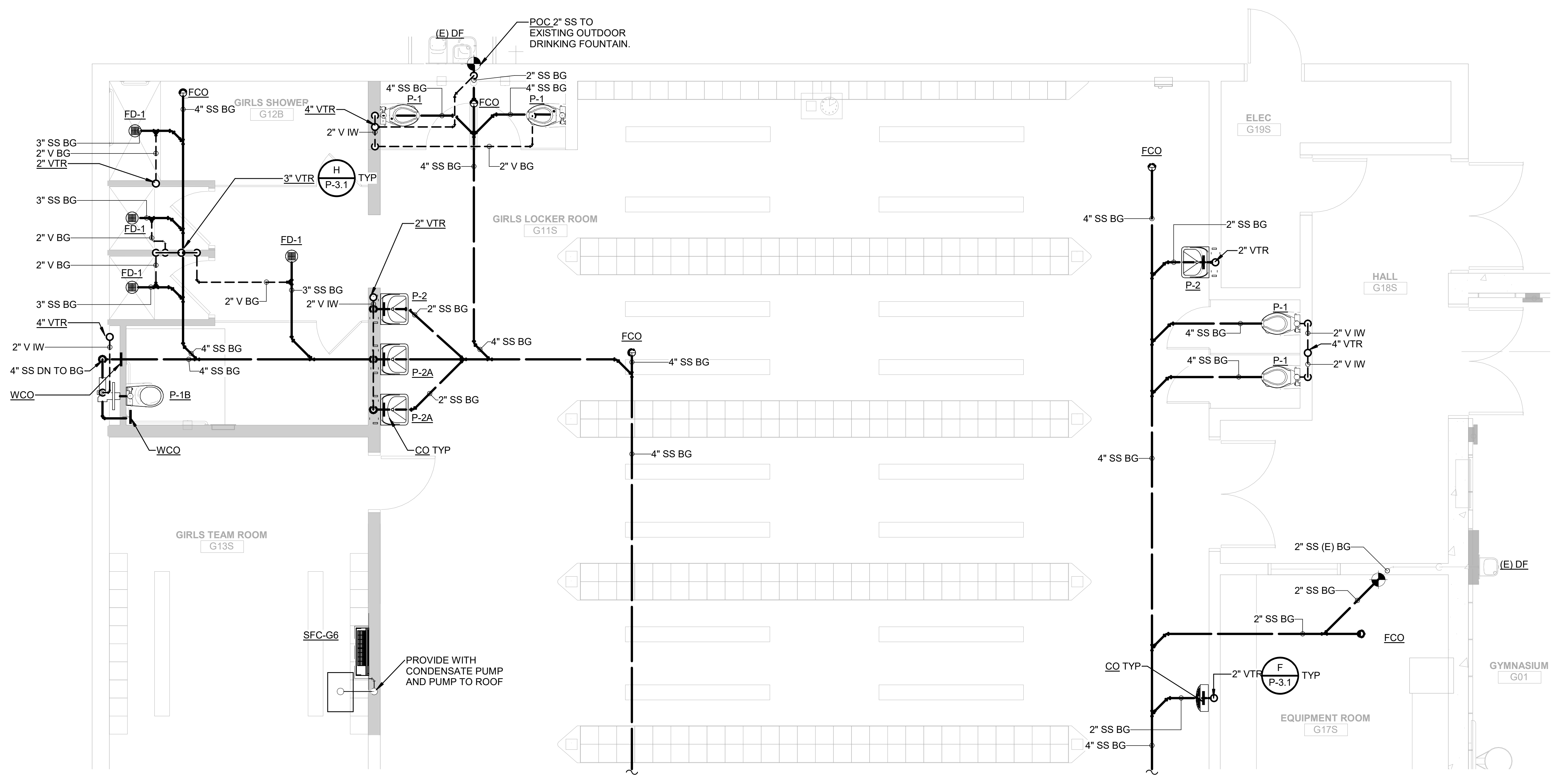
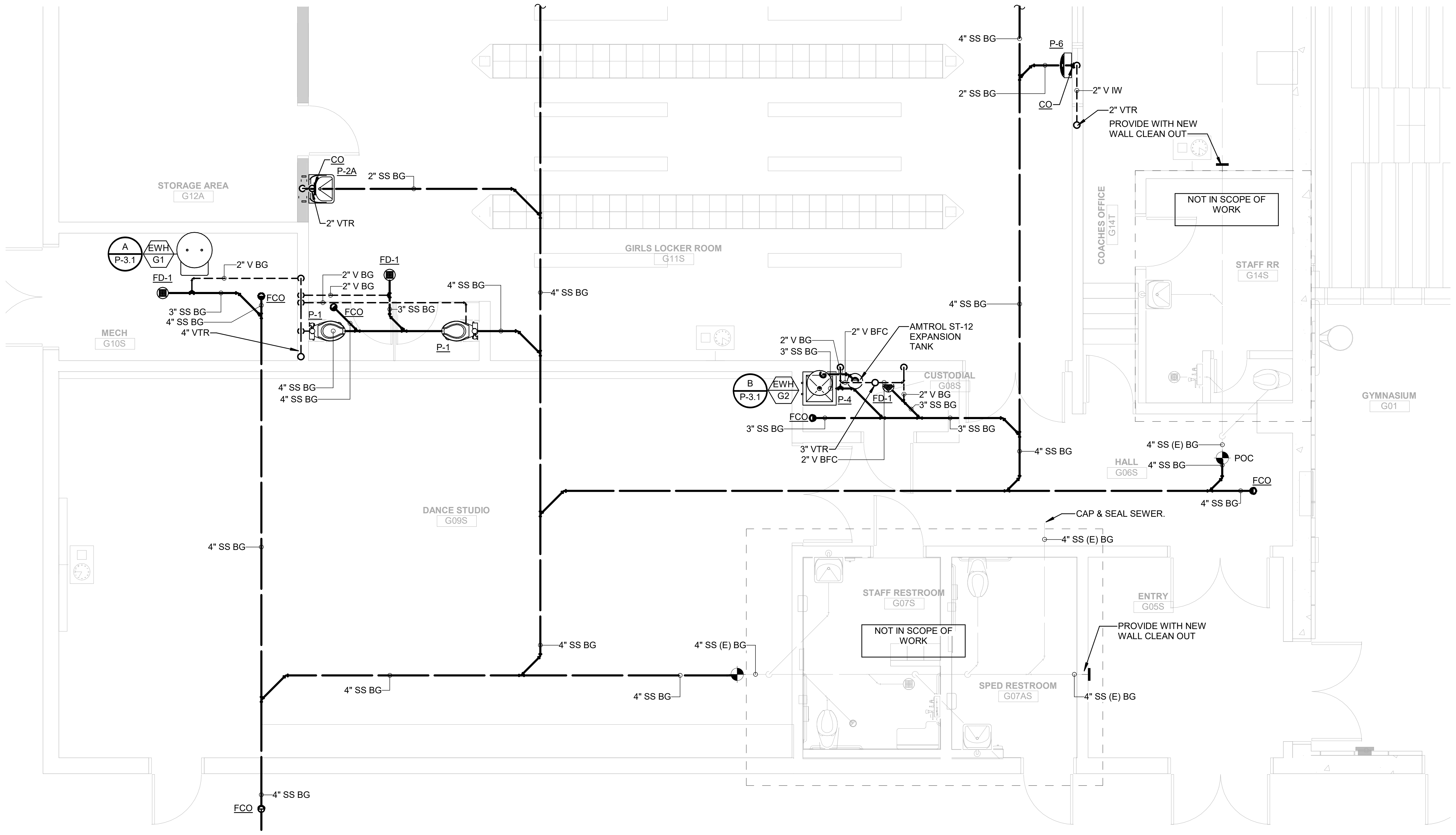


1 PLUMBING WASTE AND VENT - NORTH- GIRLS LOCKER ROOM

1/4" = 1'-0"



2 PLUMBING WASTE AND VENT - SOUTH- GIRLS LOCKER ROOM

1/4" = 1'-0"

GENERAL NOTES

A. FOR PLUMBING GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET P-1.1

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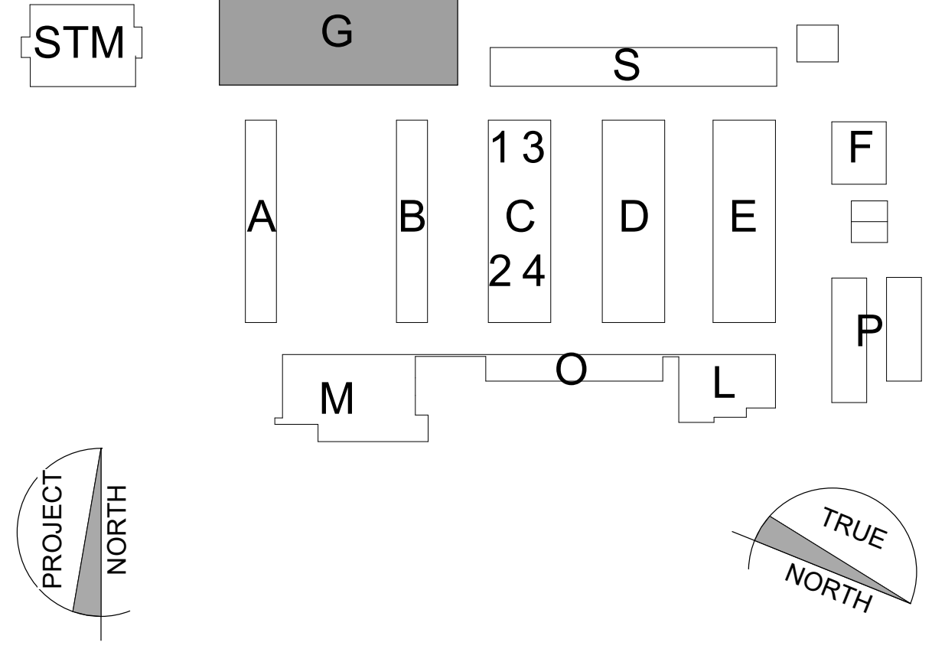
KEY PLAN



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ARCH PROJECT NO:	1910.00
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DRAWING SCALE:	1/4" = 1'-0"
PTN: 61192-223	**FILE NO:** 1-H6

BID SET 2026

4.15.2026

SHEET TITLE

PLUMBING - WASTE- BLDG G GIRLS LOCKER ROOM

SHEET NUMBER

P-2.4

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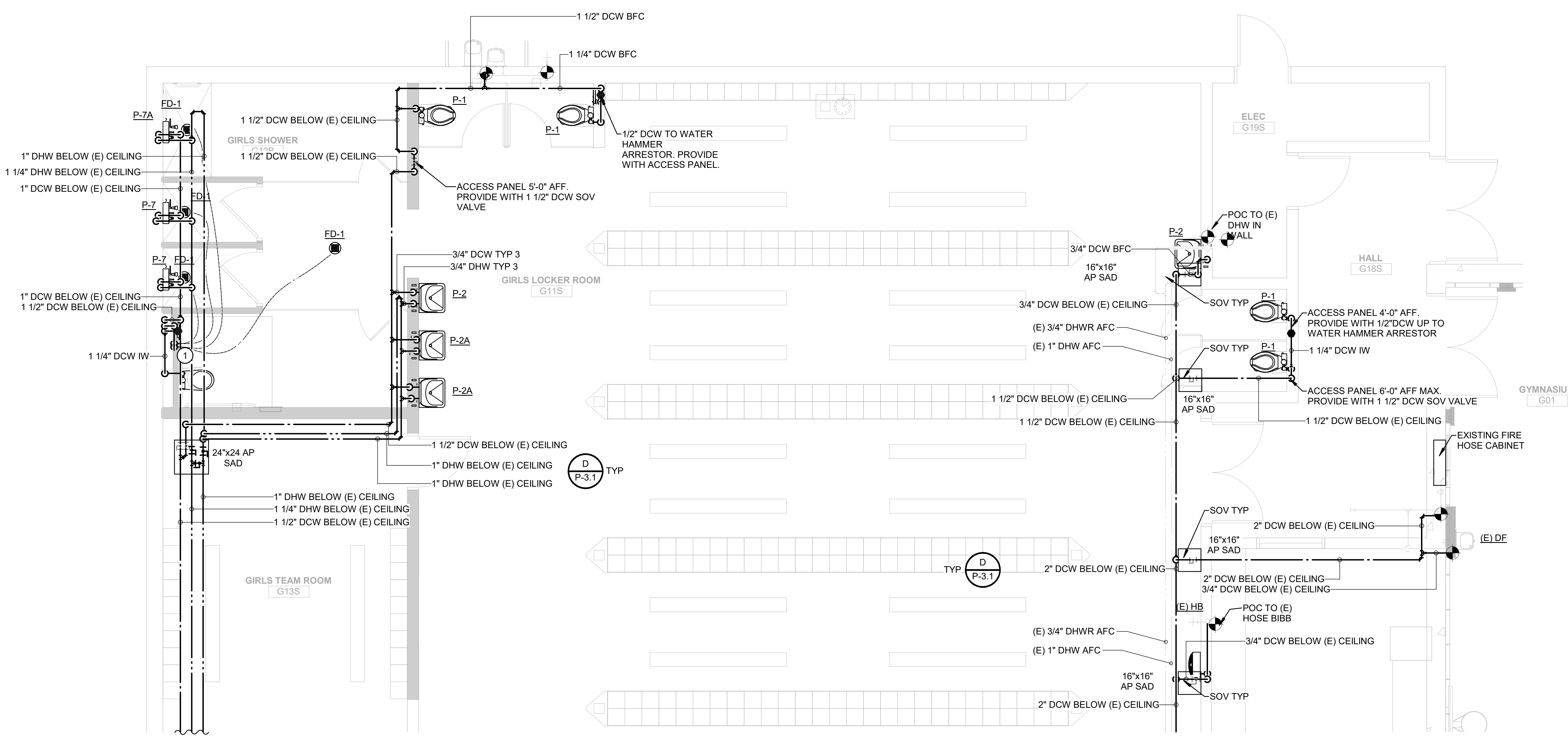
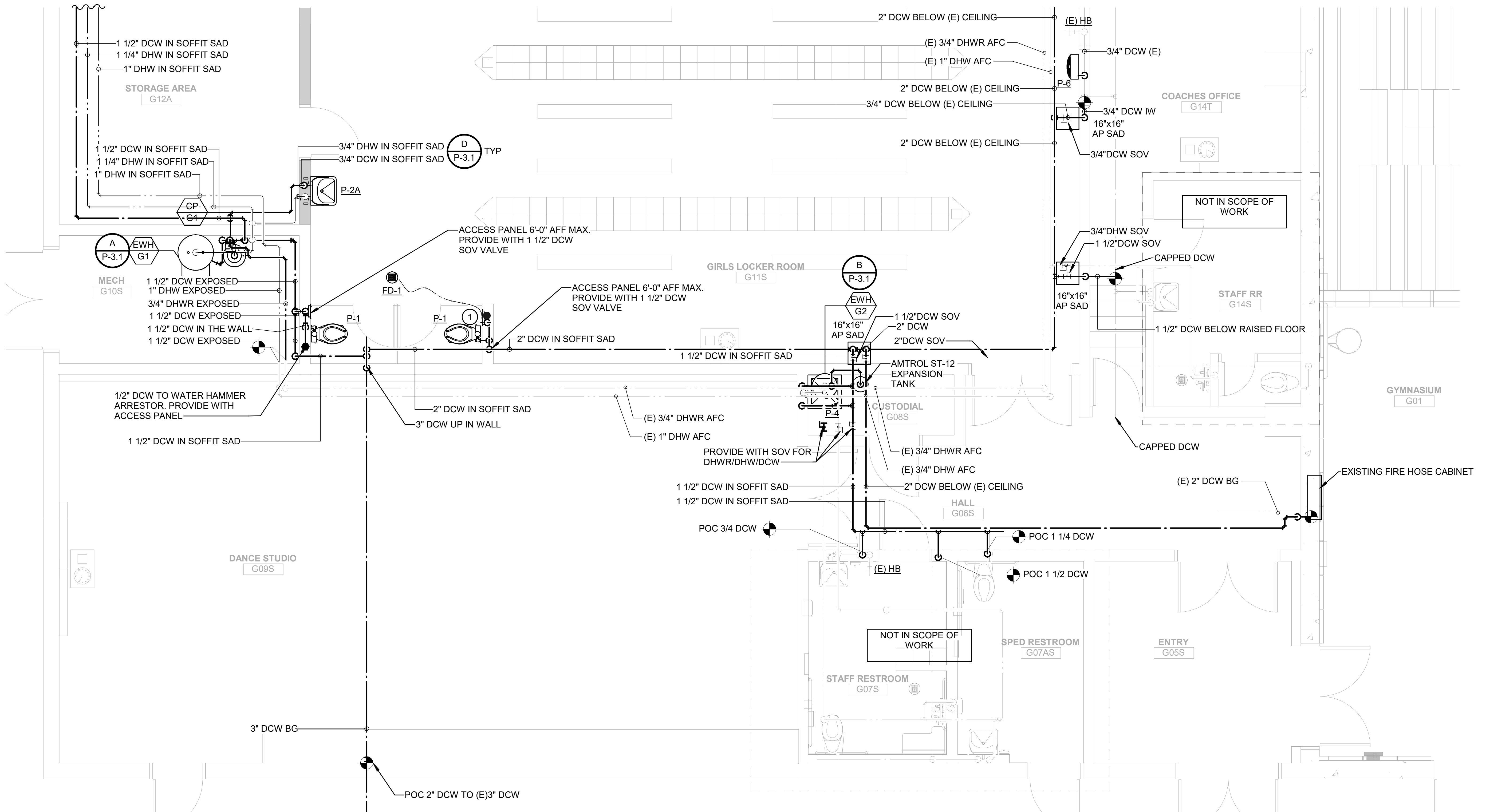


1 PLUMBING WATER - NORTH- GIRLS LOCKER ROOM

1/4" = 1'-0"



2 PLUMBING WATER - SOUTH - GIRLS LOCKER ROOM

1/4" = 1'-0"

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GENERAL NOTES

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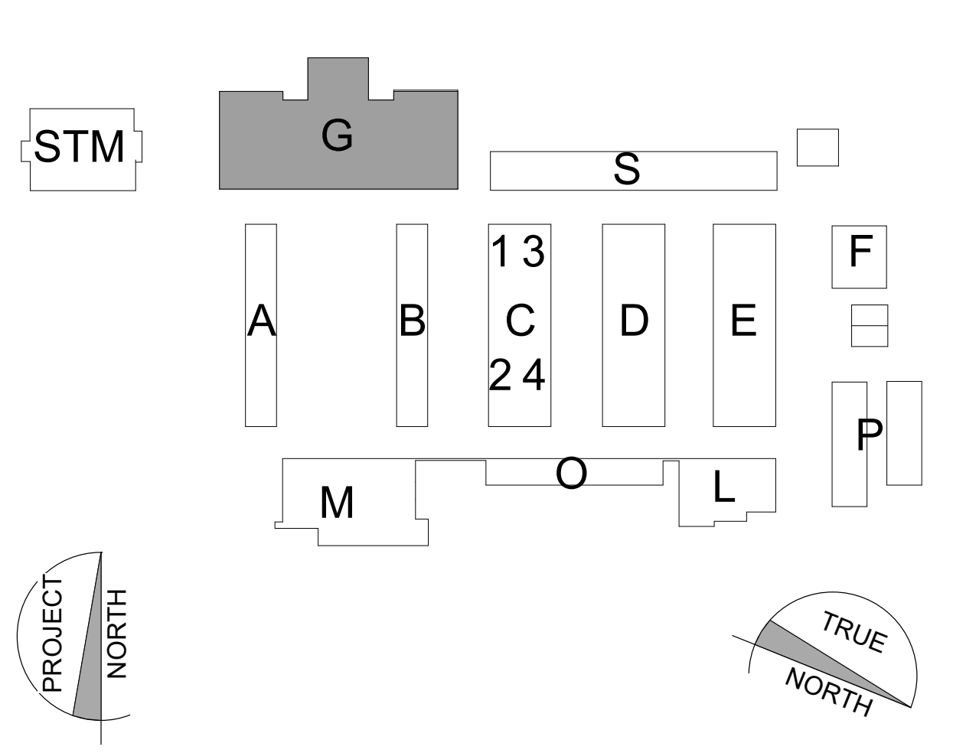
SHEET NOTES

① 1/2" DCW TO WATER HAMMER ARRESTOR AND 1/2" DCW DN TO TRAP PRIMER. ROUTE 1/2" DCW SOFT COPPER PIPES BELOW GRADE TO FLOOR DRAIN P-TRAP FROM THE TRAP PRIMMER. PROVIDE WITH ACCESS PANEL.

KEY PLAN



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DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	Author
DRAWING SCALE:	1/4" = 1'-0"
PTN: 61192-223	**FILE NO:** 1-H6

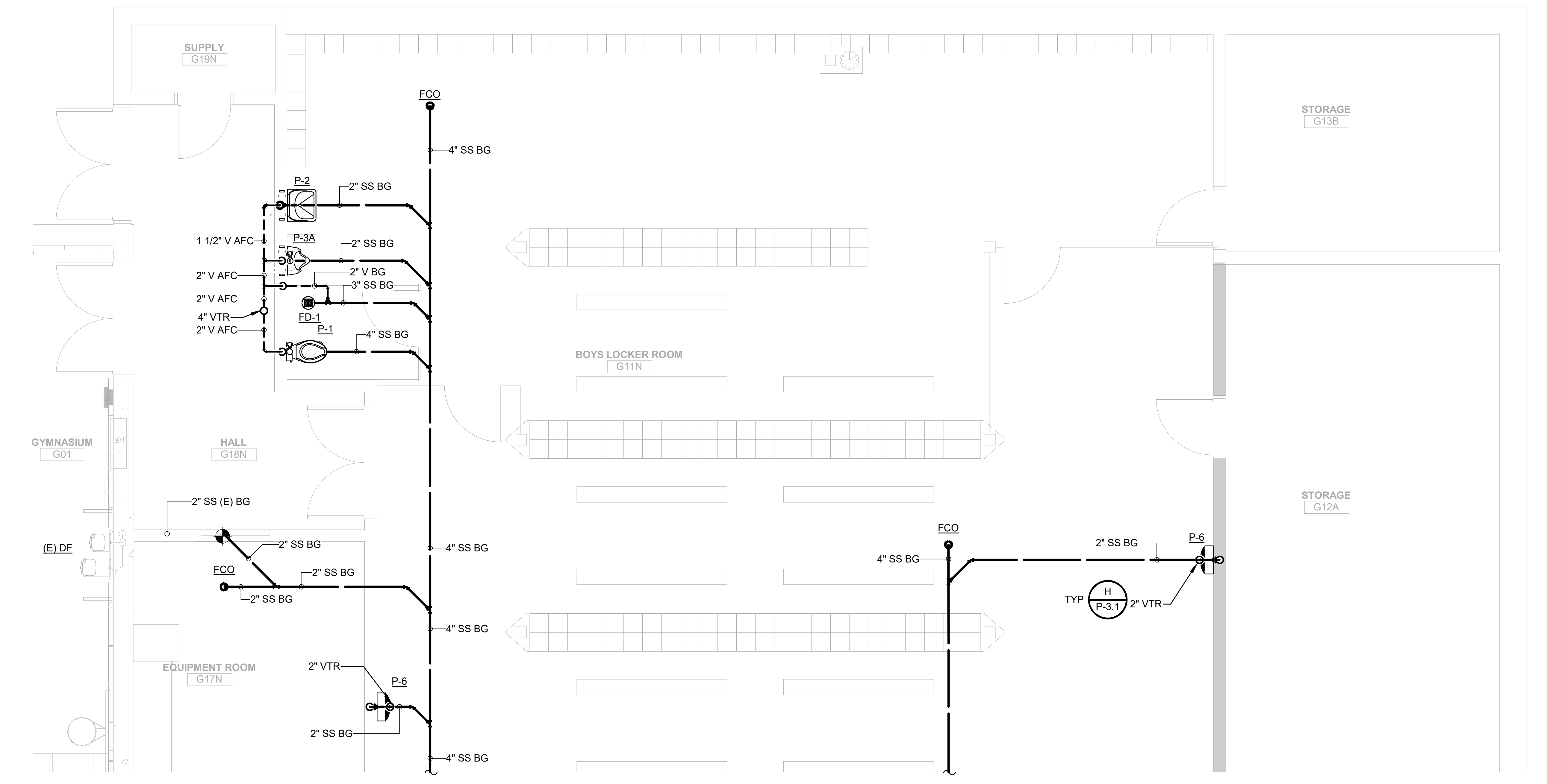
BID SET 2026
4.15.2026

SHEET TITLE

PLUMBING - WATER- BLDG G GIRLS LOCKER ROOM

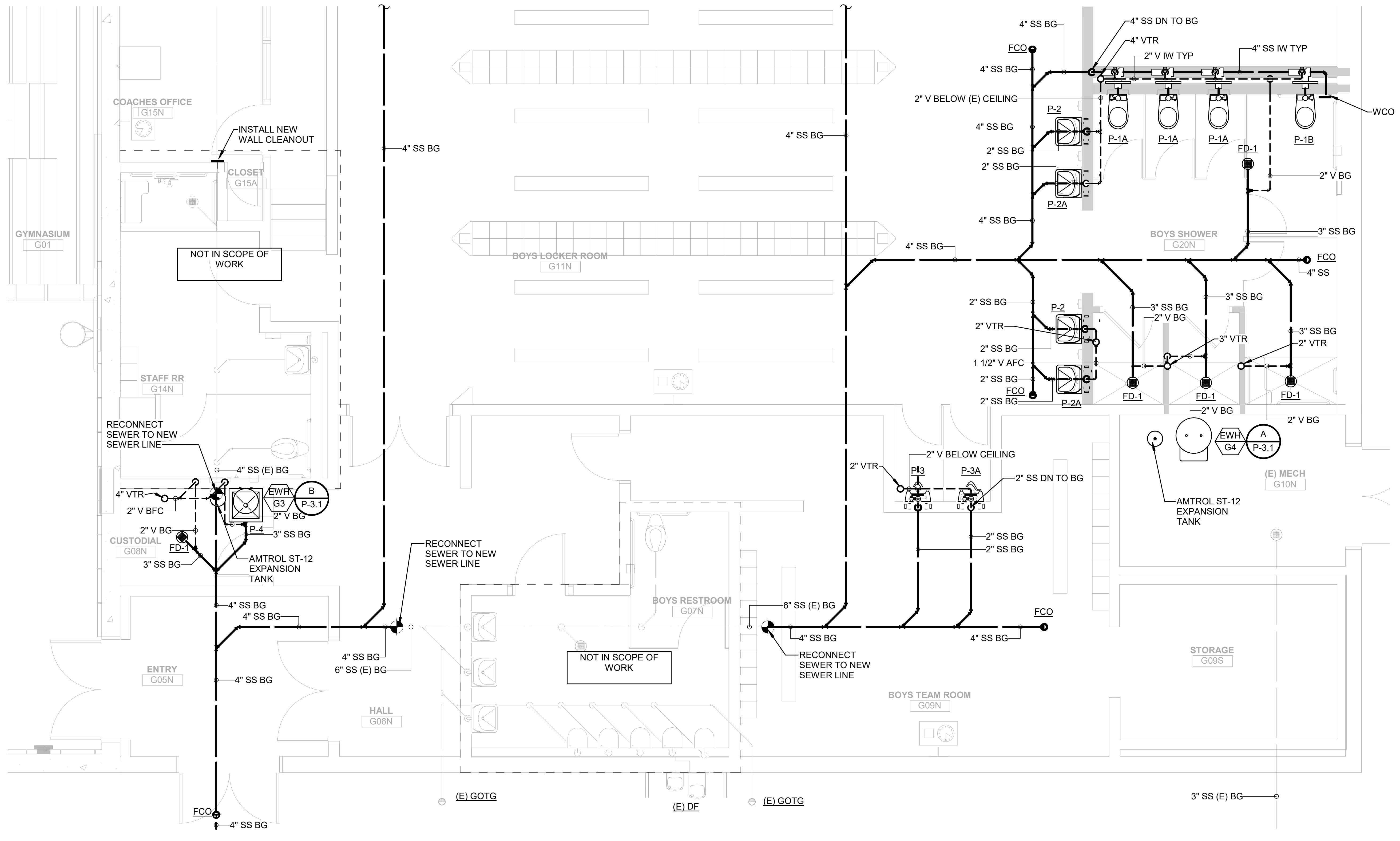
SHEET NUMBER

P-2.5



1 PLUMBING WASTE AND VENT - NORTH- BOYS LOCKER ROOM

1/4" = 1'-0"



2 PLUMBING WASTE AND VENT - SOUTH - BOYS LOCKER ROOM

1/4" = 1'-0"

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GENERAL NOTES

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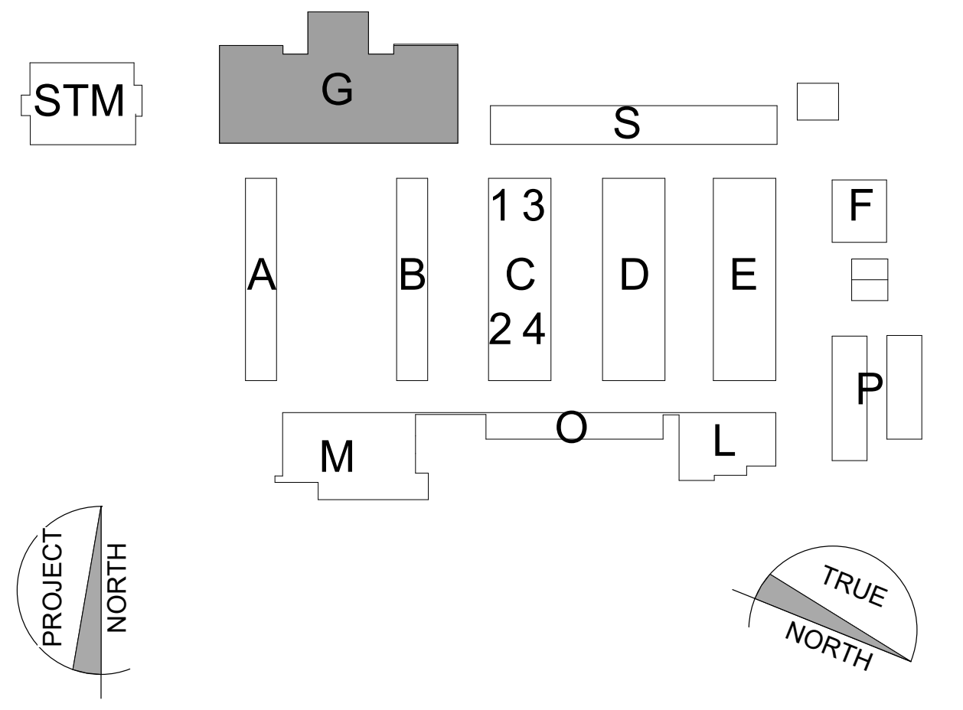
KEY PLAN



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DRAWING SCALE:	1/4" = 1'-0"
PTN: 61192-223	**FILE NO:** 1-H6

BID SET 2026

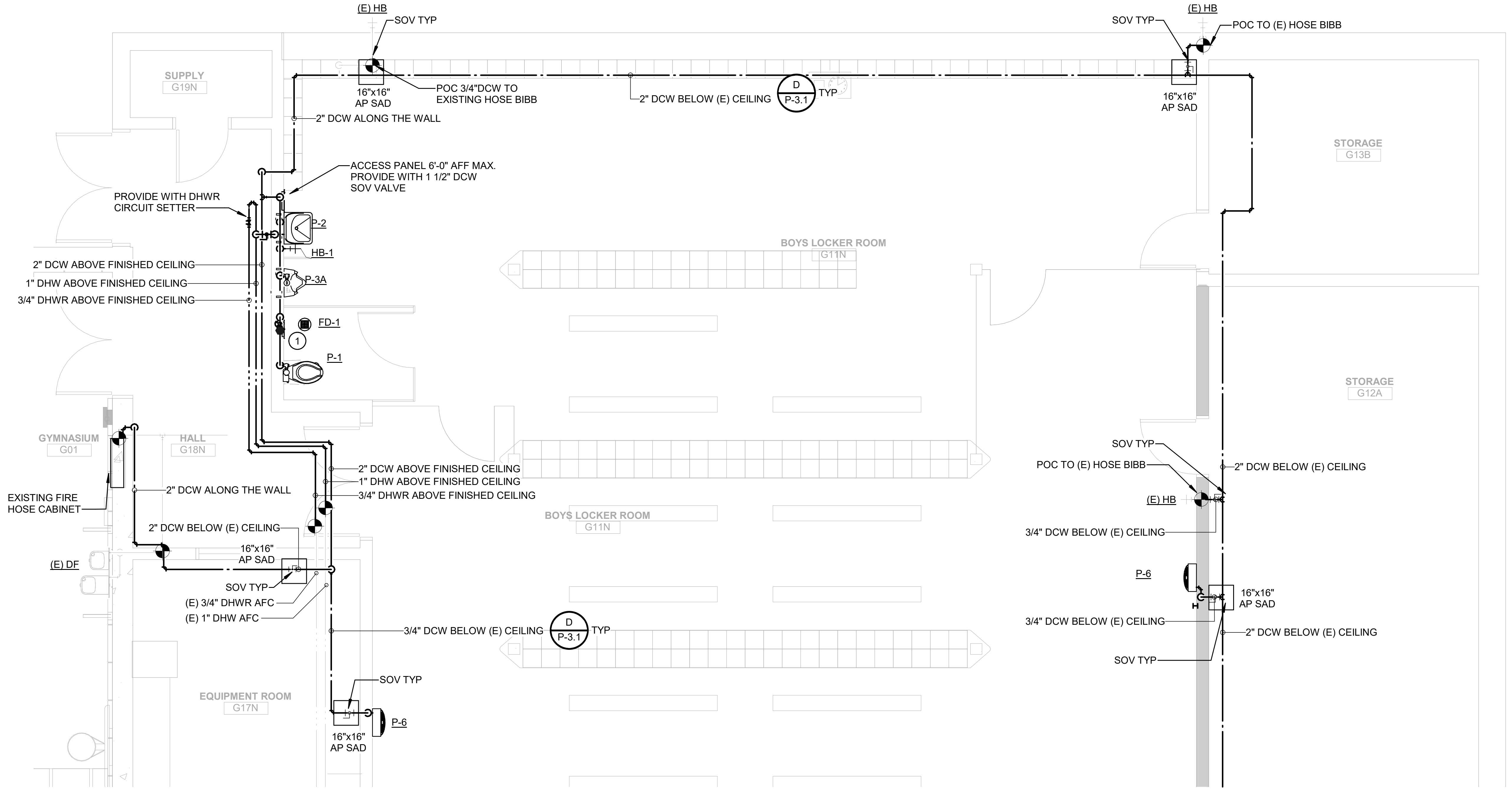
4.15.2026

SHEET TITLE

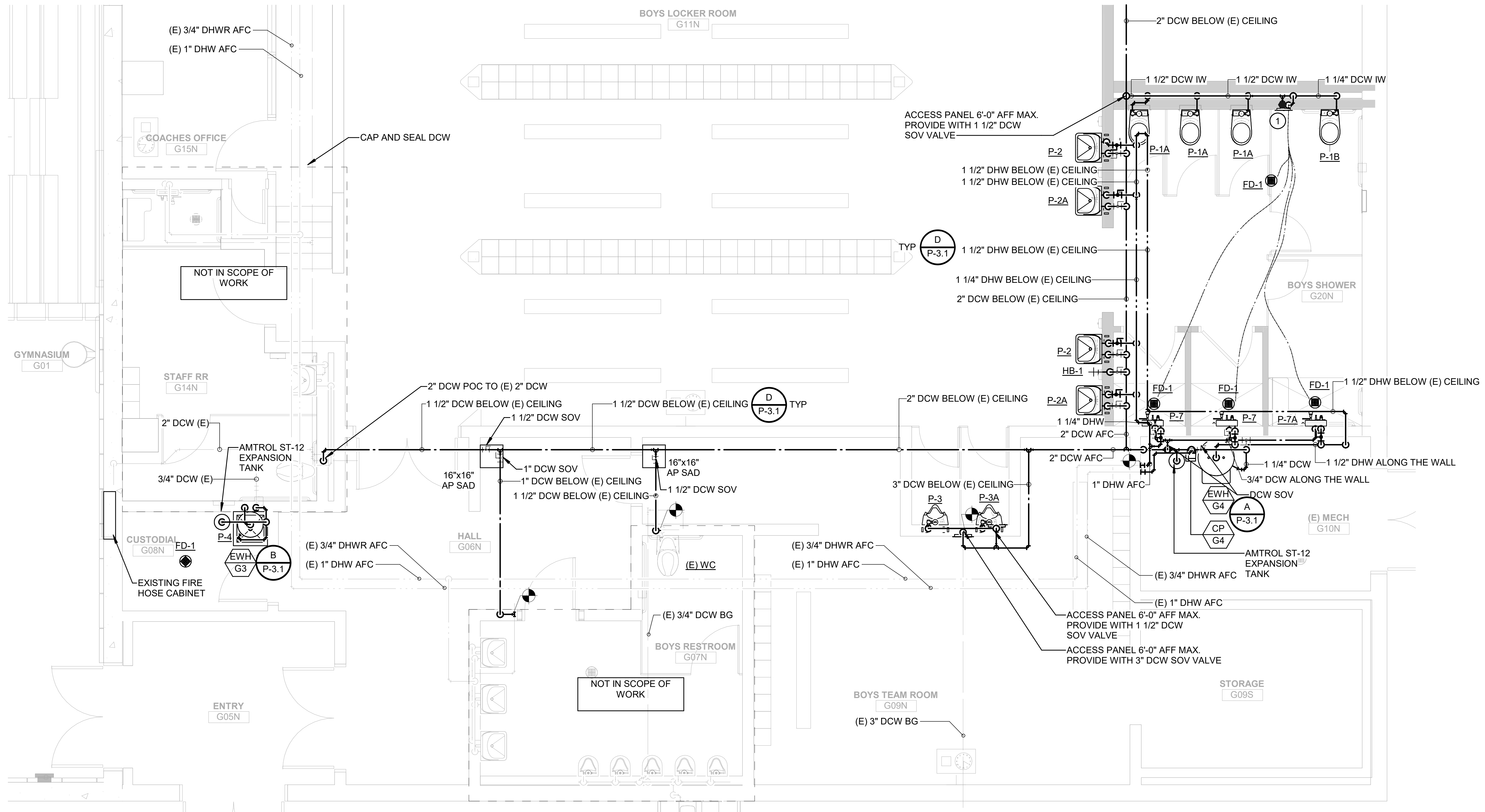
PLUMBING - WASTE- BLDG G BOYS LOCKER ROOM

SHEET NUMBER

P-2.6



1 **PLUMBING WATER - NORTH- BOYS LOCKER ROOM**
1/4" = 1'-0"



2 **PLUMBING WATER - SOUTH - BOYS LOCKER ROOM**
1/4" = 1'-0"

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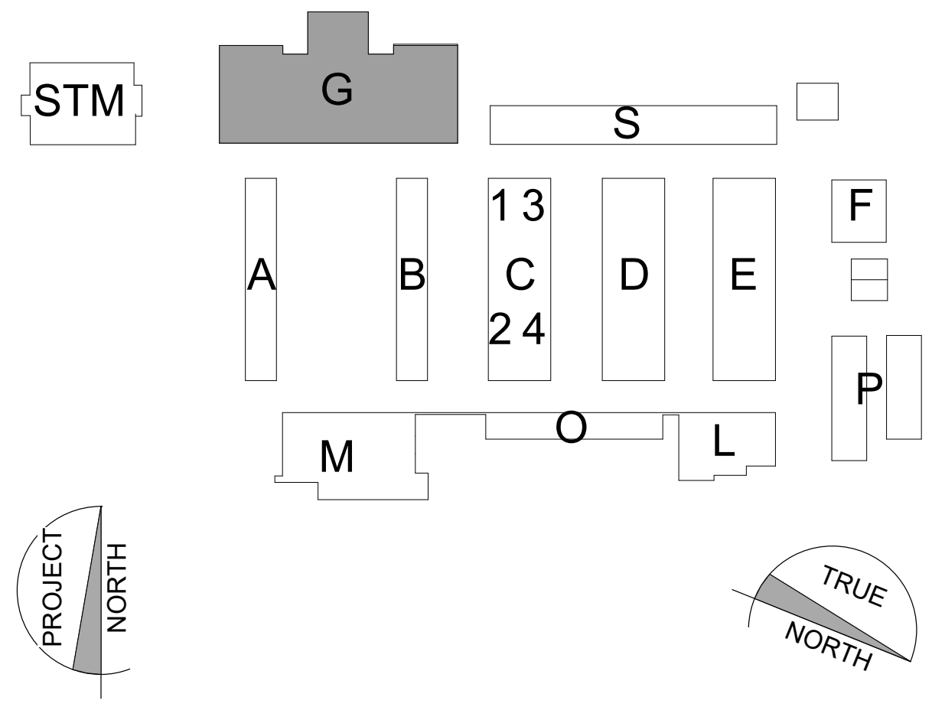
H. LOCATION OF EXISTING FIXTURES, PIPING, ETC. HAS BEEN BASED ON THE BEST AVAILABLE INFORMATION OBTAINABLE AT THE SITE AND THROUGH RECORD DRAWINGS. VERIFY EXACT LOCATIONS, SIZES, AND EXTENT OF EXISTING SYSTEMS PRIOR TO START OF DEMOLITION WORK AND INSTALLATION OF NEW PLUMBING.

SHEET NOTES

① 1/2" DCW TO WATER HAMMER ARRESTOR AND 1/2" DCW DN TO TRAP PRIMER. ROUTE 1/2" DCW SOFT COPPER PIPES BELOW GRADE TO FLOOR DRAIN P-TRAP FROM THE TRAP PRIMMER. PROVIDE WITH ACCESS PANEL.

KEY PLAN



IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

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DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	Author
DRAWING SCALE:	1/4" = 1'-0"
PTN: 61192-223	**FILE NO:** 1-H6

BID SET 2026

4.15.2026

SHEET TITLE

**PLUMBING -
WATER- BLDG
G BOYS
LOCKER ROOM**

SHEET NUMBER

P-2.7

6/9/2025 2:32:37 PM

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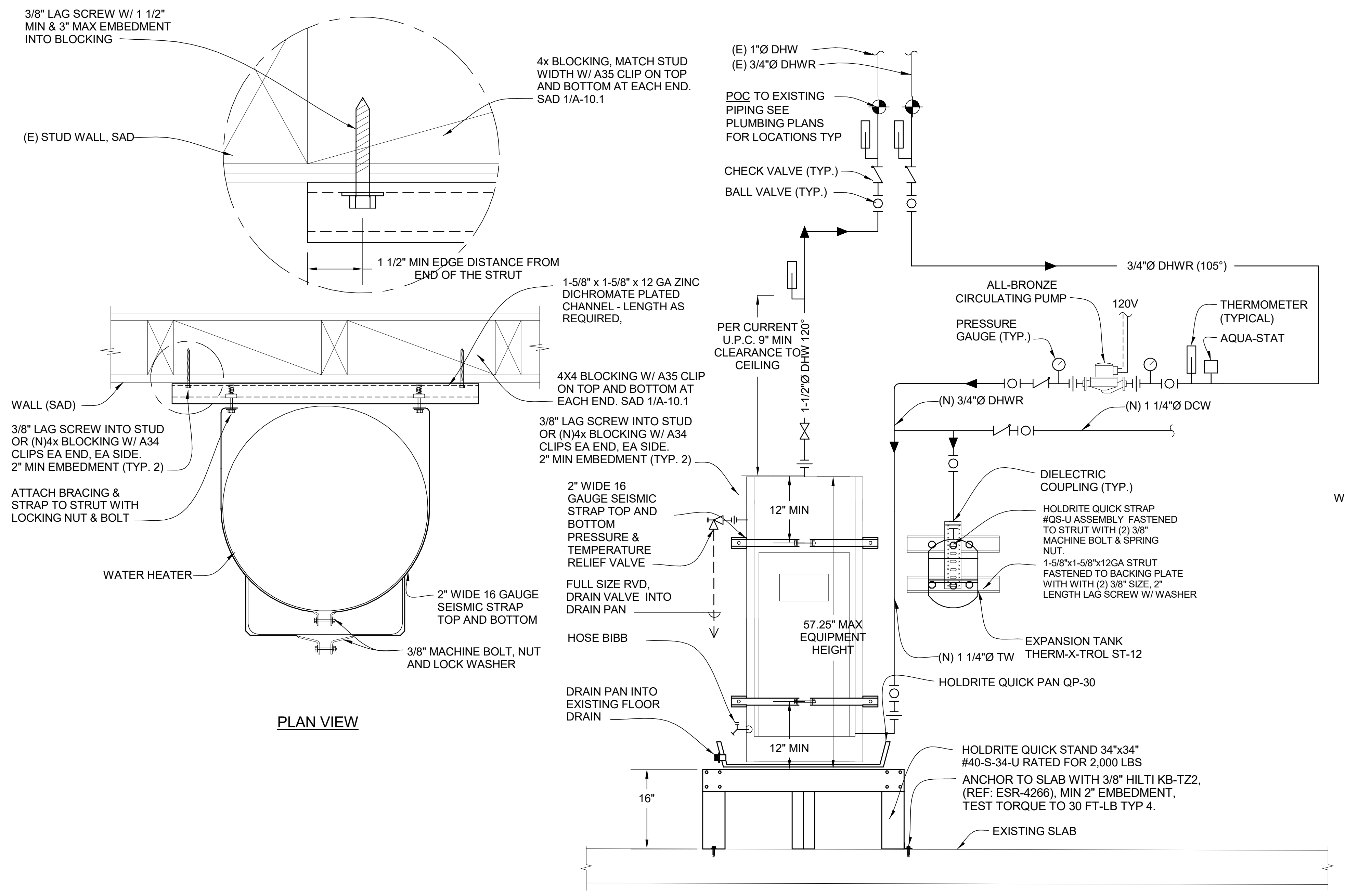
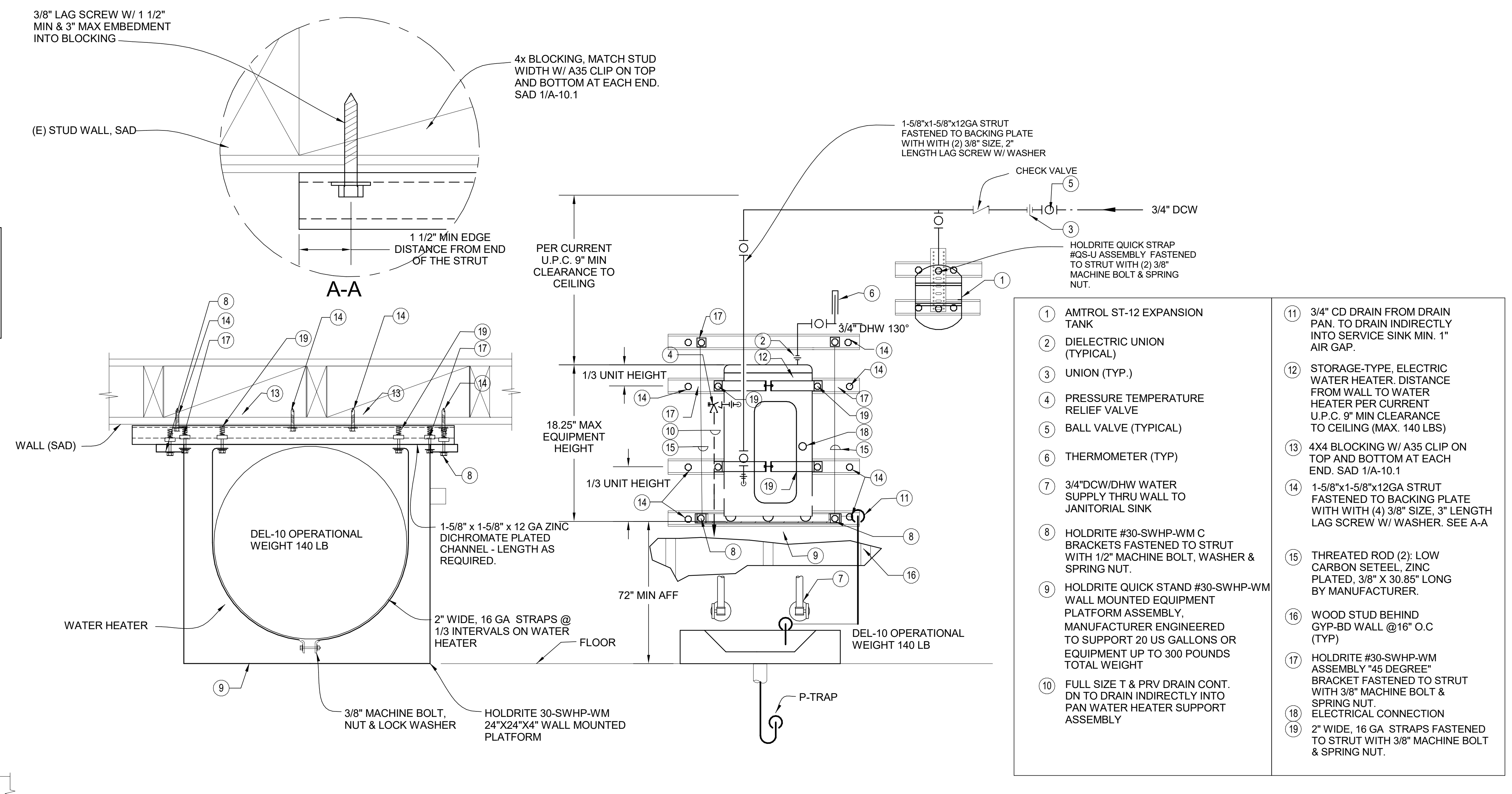

3/8" LAG SCREW W/ 1 1/2" MIN & 3" MAX EMBEDMENT INTO BLOCKING
4x BLOCKING, MATCH STUD WIDTH W/ A35 CLIP ON TOP AND BOTTOM AT EACH END. SAD 1/A-10.1
(E) STUD WALL, SAD
1 1/2" MIN EDGE DISTANCE FROM END OF THE STRUT
1-5/8" x 1-5/8" x 12 GA ZINC DICHROMATE PLATED CHANNEL - LENGTH AS REQUIRED,
4X4 BLOCKING W/ A35 CLIP ON TOP AND BOTTOM AT EACH END. SAD 1/A-10.1
WALL (SAD)
3/8" LAG SCREW INTO STUD OR (N)4x BLOCKING W/ A34 CLIPS EA END, EA SIDE. 2" MIN EMBEDMENT (TYP. 2)
ATTACH BRACING & STRAP TO STRUT WITH LOCKING NUT & BOLT
WATER HEATER
2" WIDE 16 GAUGE SEISMIC STRAP TOP AND BOTTOM
3/8" MACHINE BOLT, NUT AND LOCK WASHER
PLAN VIEW
(E) 1"Ø DHW
(E) 3/4"Ø DHWR
POC TO EXISTING PIPING SEE PLUMBING PLANS FOR LOCATIONS TYP
CHECK VALVE (TYP.)
BALL VALVE (TYP.)
3/4"Ø DHWR (105°)
ALL-BRONZE CIRCULATING PUMP
120V
PRESSURE GAUGE (TYP.)
THERMOMETER (TYPICAL)
AQUA-STAT
PER CURRENT U.P.C. 9" MIN CLEARANCE TO CEILING
1-1/2"Ø DHW 120°
(N) 3/4"Ø DHWR
(N) 1 1/4"Ø DCW
3/8" LAG SCREW INTO STUD OR (N)4x BLOCKING W/ A34 CLIPS EA END, EA SIDE. 2" MIN EMBEDMENT (TYP. 2)
2" WIDE 16 GAUGE SEISMIC STRAP TOP AND BOTTOM
PRESSURE & TEMPERATURE RELIEF VALVE
12" MIN
FULL SIZE RVD, DRAIN VALVE INTO DRAIN PAN
DIELECTRIC COUPLING (TYP.)
HOLDRITE QUICK STRAP #QS-U ASSEMBLY FASTENED TO STRUT WITH (2) 3/8" MACHINE BOLT & SPRING NUT.
1-5/8"x1-5/8"x12GA STRUT FASTENED TO BACKING PLATE WITH WITH (2) 3/8" SIZE, 2" LENGTH LAG SCREW W/ WASHER
57.25" MAX EQUIPMENT HEIGHT
HOSE BIBB
EXPANSION TANK THERM-X-TROL ST-12
(N) 1 1/4"Ø TW
HOLDRITE QUICK PAN QP-30
DRAIN PAN INTO EXISTING FLOOR DRAIN
12" MIN
HOLDRITE QUICK STAND 34"x34" #40-S-34-U RATED FOR 2,000 LBS
16"
ANCHOR TO SLAB WITH 3/8" HILTI KB-TZ2, (REF: ESR-4266), MIN 2" EMBEDMENT, TEST TORQUE TO 30 FT-LB TYP 4.
EXISTING SLAB

A DOMESTIC WATER HEAT PUMP PIPING & VALVES DIAGRAM

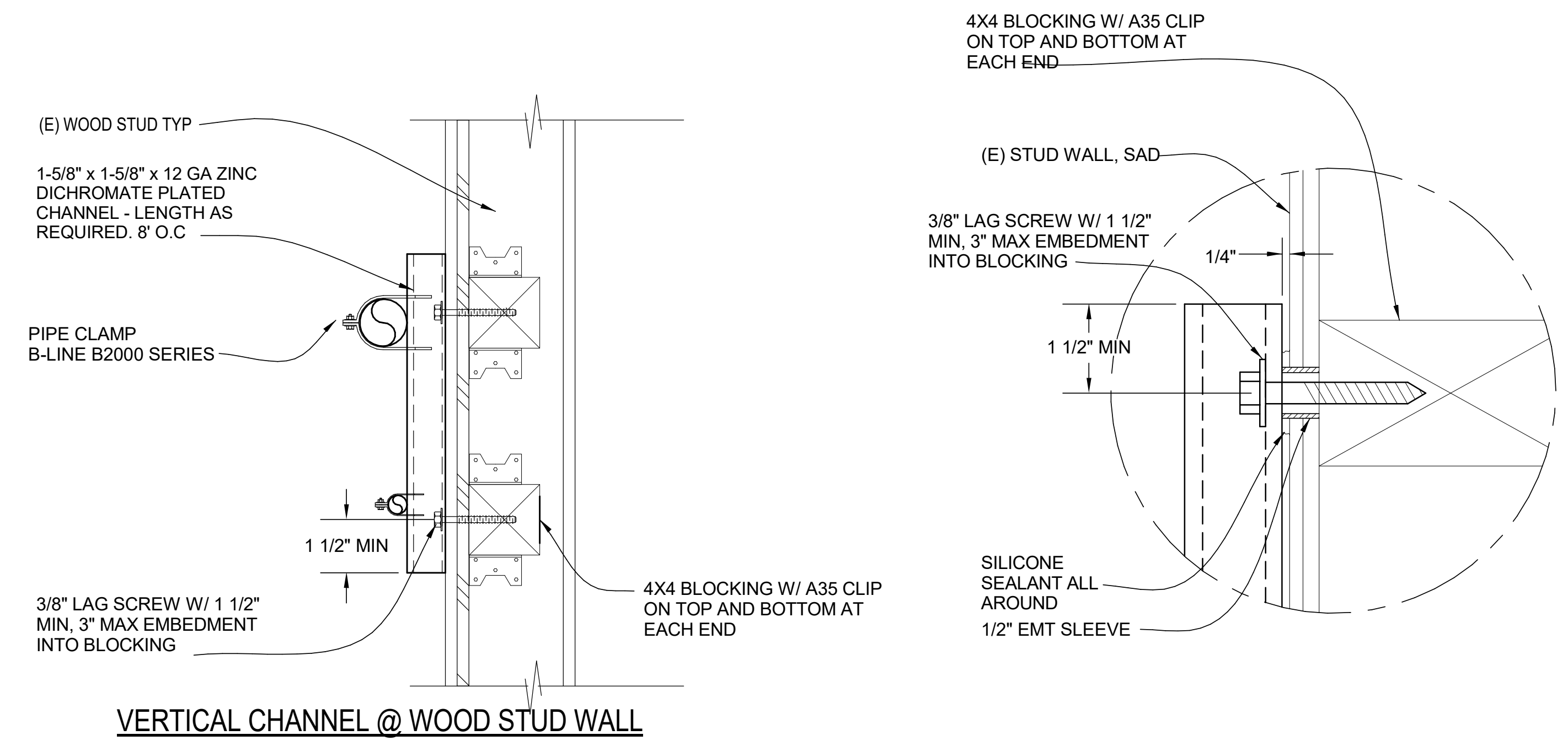
SCALE: NONE


3/8" LAG SCREW W/ 1 1/2" MIN & 3" MAX EMBEDMENT INTO BLOCKING
4x BLOCKING, MATCH STUD WIDTH W/ A35 CLIP ON TOP AND BOTTOM AT EACH END. SAD 1/A-10.1
(E) STUD WALL, SAD
1 1/2" MIN EDGE DISTANCE FROM END OF THE STRUT
A-A
8
14
17
19
14
14
19
17
13
13
14
WALL (SAD)
8
DEL-10 OPERATIONAL WEIGHT 140 LB
1-5/8" x 1-5/8" x 12 GA ZINC DICHROMATE PLATED CHANNEL - LENGTH AS REQUIRED.
WATER HEATER
2" WIDE, 16 GA STRAPS @ 1/3 INTERVALS ON WATER HEATER
FLOOR
9
3/8" MACHINE BOLT, NUT & LOCK WASHER
HOLDRITE 30-SWHP-WM 24"X24"X4" WALL MOUNTED PLATFORM
1-5/8"x1-5/8"x12GA STRUT FASTENED TO BACKING PLATE WITH WITH (2) 3/8" SIZE, 2" LENGTH LAG SCREW W/ WASHER
CHECK VALVE
5
3
3/4" DCW
HOLDRITE QUICK STRAP #QS-U ASSEMBLY FASTENED TO STRUT WITH (2) 3/8" MACHINE BOLT & SPRING NUT.
1
PER CURRENT U.P.C. 9" MIN CLEARANCE TO CEILING
6
3/4" DHW 130°
17
2
12
4
14
1/3 UNIT HEIGHT
14
17
19
17
10
15
18
15
18.25" MAX EQUIPMENT HEIGHT
1/3 UNIT HEIGHT
14
19
14
11
8
8
9
16
7
72" MIN AFF
DEL-10 OPERATIONAL WEIGHT 140 LB
P-TRAP

① AMTROL ST-12 EXPANSION TANK
② DIELECTRIC UNION (TYPICAL)
③ UNION (TYP.)
④ PRESSURE TEMPERATURE RELIEF VALVE
⑤ BALL VALVE (TYPICAL)
⑥ THERMOMETER (TYP)
⑦ 3/4"DCW/DHW WATER SUPPLY THRU WALL TO JANITORIAL SINK
⑧ HOLDRITE #30-SWHP-WM C BRACKETS FASTENED TO STRUT WITH 1/2" MACHINE BOLT, WASHER & SPRING NUT.
⑨ HOLDRITE QUICK STAND #30-SWHP-WM WALL MOUNTED EQUIPMENT PLATFORM ASSEMBLY, MANUFACTURER ENGINEERED TO SUPPORT 20 US GALLONS OR EQUIPMENT UP TO 300 POUNDS TOTAL WEIGHT
⑩ FULL SIZE T & PRV DRAIN CONT. DN TO DRAIN INDIRECTLY INTO PAN WATER HEATER SUPPORT ASSEMBLY
⑪ 3/4" CD DRAIN FROM DRAIN PAN. TO DRAIN INDIRECTLY INTO SERVICE SINK MIN. 1" AIR GAP.
⑫ STORAGE-TYPE, ELECTRIC WATER HEATER. DISTANCE FROM WALL TO WATER HEATER PER CURRENT U.P.C. 9" MIN CLEARANCE TO CEILING (MAX. 140 LBS)
⑬ 4X4 BLOCKING W/ A35 CLIP ON TOP AND BOTTOM AT EACH END. SAD 1/A-10.1
⑭ 1-5/8"x1-5/8"x12GA STRUT FASTENED TO BACKING PLATE WITH WITH (4) 3/8" SIZE, 3" LENGTH LAG SCREW W/ WASHER. SEE A-A
⑮ THREATED ROD (2): LOW CARBON SETEEL, ZINC PLATED, 3/8" X 30.85" LONG BY MANUFACTURER.
⑯ WOOD STUD BEHIND GYP-BD WALL @16" O.C (TYP)
⑰ HOLDRITE #30-SWHP-WM ASSEMBLY "45 DEGREE" BRACKET FASTENED TO STRUT WITH 3/8" MACHINE BOLT & SPRING NUT.
⑱ ELECTRICAL CONNECTION
⑲ 2" WIDE, 16 GA STRAPS FASTENED TO STRUT WITH 3/8" MACHINE BOLT & SPRING NUT.

B EWH MOUNTING DETAIL & PIPING DIAGRAM

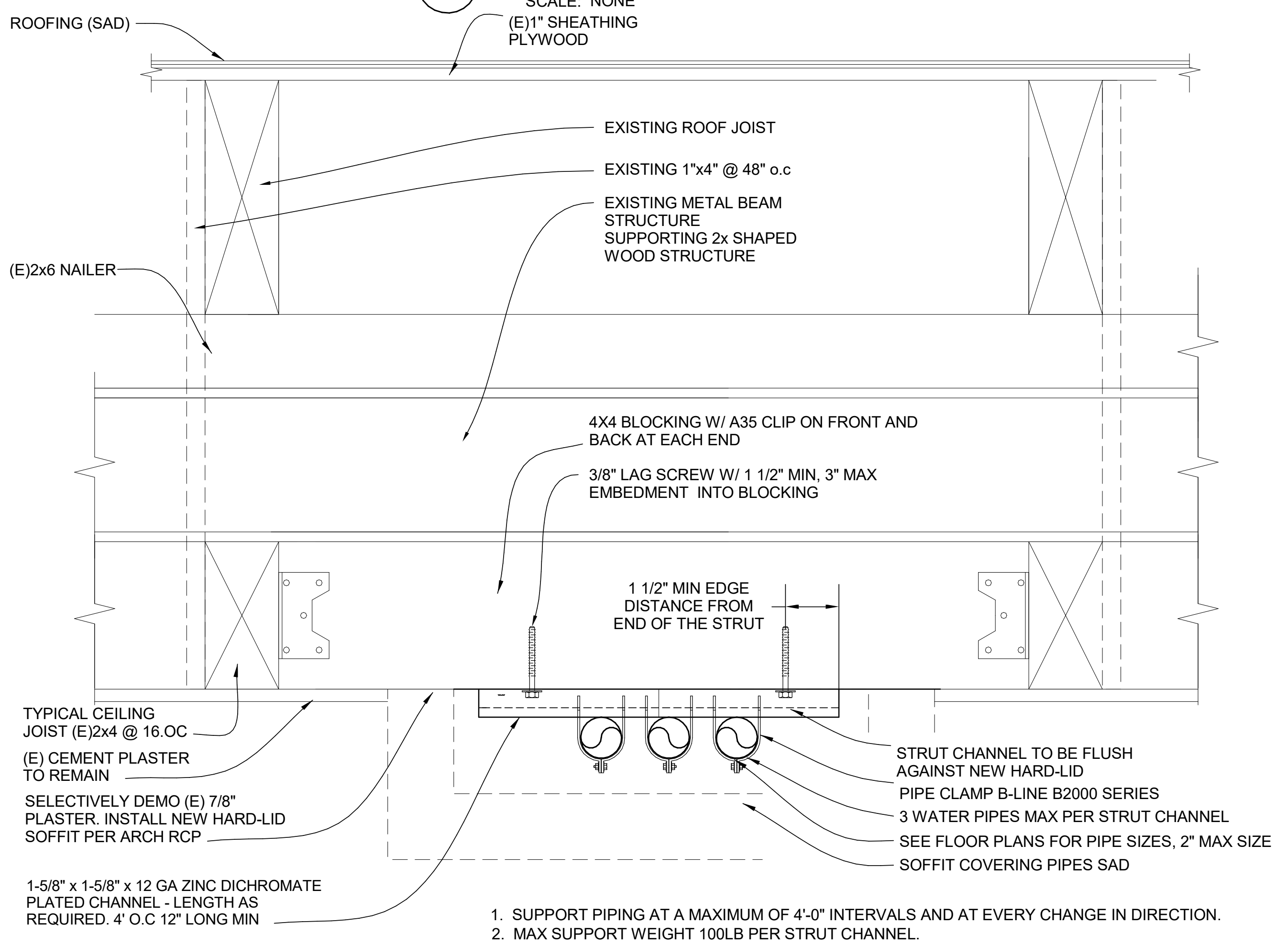
SCALE: NONE


(E) WOOD STUD TYP
1-5/8" x 1-5/8" x 12 GA ZINC DICHROMATE PLATED CHANNEL - LENGTH AS REQUIRED. 8' O.C
PIPE CLAMP B-LINE B2000 SERIES
1 1/2" MIN
3/8" LAG SCREW W/ 1 1/2" MIN, 3" MAX EMBEDMENT INTO BLOCKING
4X4 BLOCKING W/ A35 CLIP ON TOP AND BOTTOM AT EACH END
4X4 BLOCKING W/ A35 CLIP ON TOP AND BOTTOM AT EACH END
(E) STUD WALL, SAD
3/8" LAG SCREW W/ 1 1/2" MIN, 3" MAX EMBEDMENT INTO BLOCKING
1/4"
1 1/2" MIN
SILICONE SEALANT ALL AROUND
1/2" EMT SLEEVE

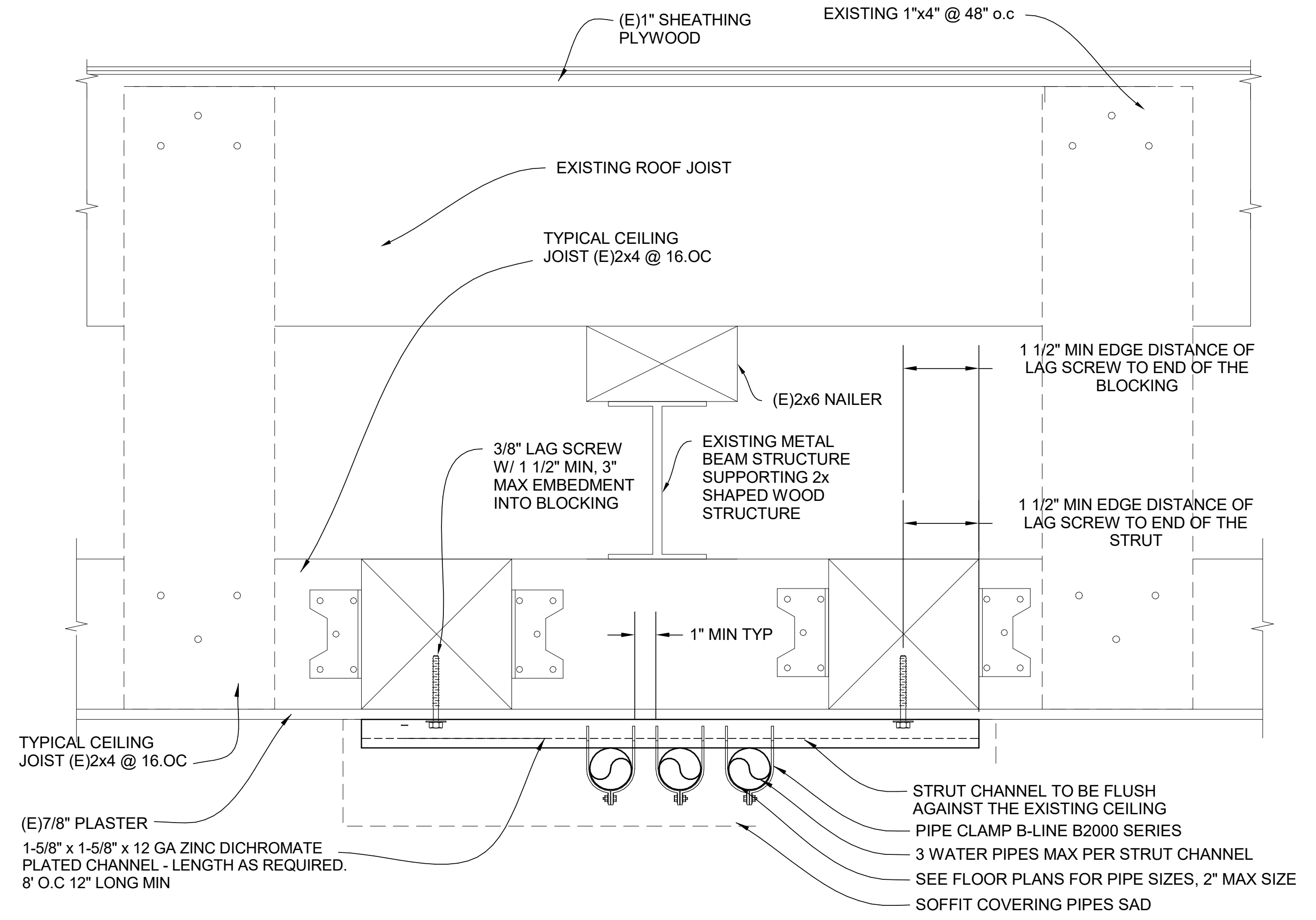
VERTICAL CHANNEL @ WOOD STUD WALL

C PIPE ALONG WOOD WALL

SCALE: NTS


ROOFING (SAD)
(E)1" SHEATHING PLYWOOD
EXISTING ROOF JOIST
EXISTING 1"x4" @ 48" o.c
EXISTING METAL BEAM STRUCTURE SUPPORTING 2x SHAPED WOOD STRUCTURE
(E)2x6 NAILER
4X4 BLOCKING W/ A35 CLIP ON FRONT AND BACK AT EACH END
3/8" LAG SCREW W/ 1 1/2" MIN, 3" MAX EMBEDMENT INTO BLOCKING
1 1/2" MIN EDGE DISTANCE FROM END OF THE STRUT
TYPICAL CEILING JOIST (E)2x4 @ 16.OC
(E) CEMENT PLASTER TO REMAIN
SELECTIVELY DEMO (E) 7/8" PLASTER. INSTALL NEW HARD-LID SOFFIT PER ARCH RCP
1-5/8" x 1-5/8" x 12 GA ZINC DICHROMATE PLATED CHANNEL - LENGTH AS REQUIRED. 4' O.C 12" LONG MIN
STRUT CHANNEL TO BE FLUSH AGAINST NEW HARD-LID
PIPE CLAMP B-LINE B2000 SERIES
3 WATER PIPES MAX PER STRUT CHANNEL
SEE FLOOR PLANS FOR PIPE SIZES, 2" MAX SIZE
SOFFIT COVERING PIPES SAD

1. SUPPORT PIPING AT A MAXIMUM OF 4'-0" INTERVALS AND AT EVERY CHANGE IN DIRECTION.
2. MAX SUPPORT WEIGHT 100LB PER STRUT CHANNEL.


(E)1" SHEATHING PLYWOOD
EXISTING 1"x4" @ 48" o.c
EXISTING ROOF JOIST
TYPICAL CEILING JOIST (E)2x4 @ 16.OC
(E)2x6 NAILER
1 1/2" MIN EDGE DISTANCE OF LAG SCREW TO END OF THE BLOCKING
3/8" LAG SCREW W/ 1 1/2" MIN, 3" MAX EMBEDMENT INTO BLOCKING
EXISTING METAL BEAM STRUCTURE SUPPORTING 2x SHAPED WOOD STRUCTURE
1 1/2" MIN EDGE DISTANCE OF LAG SCREW TO END OF THE STRUT
1" MIN TYP
TYPICAL CEILING JOIST (E)2x4 @ 16.OC
(E)7/8" PLASTER
1-5/8" x 1-5/8" x 12 GA ZINC DICHROMATE PLATED CHANNEL - LENGTH AS REQUIRED. 8' O.C 12" LONG MIN
STRUT CHANNEL TO BE FLUSH AGAINST THE EXISTING CEILING
PIPE CLAMP B-LINE B2000 SERIES
3 WATER PIPES MAX PER STRUT CHANNEL
SEE FLOOR PLANS FOR PIPE SIZES, 2" MAX SIZE
SOFFIT COVERING PIPES SAD

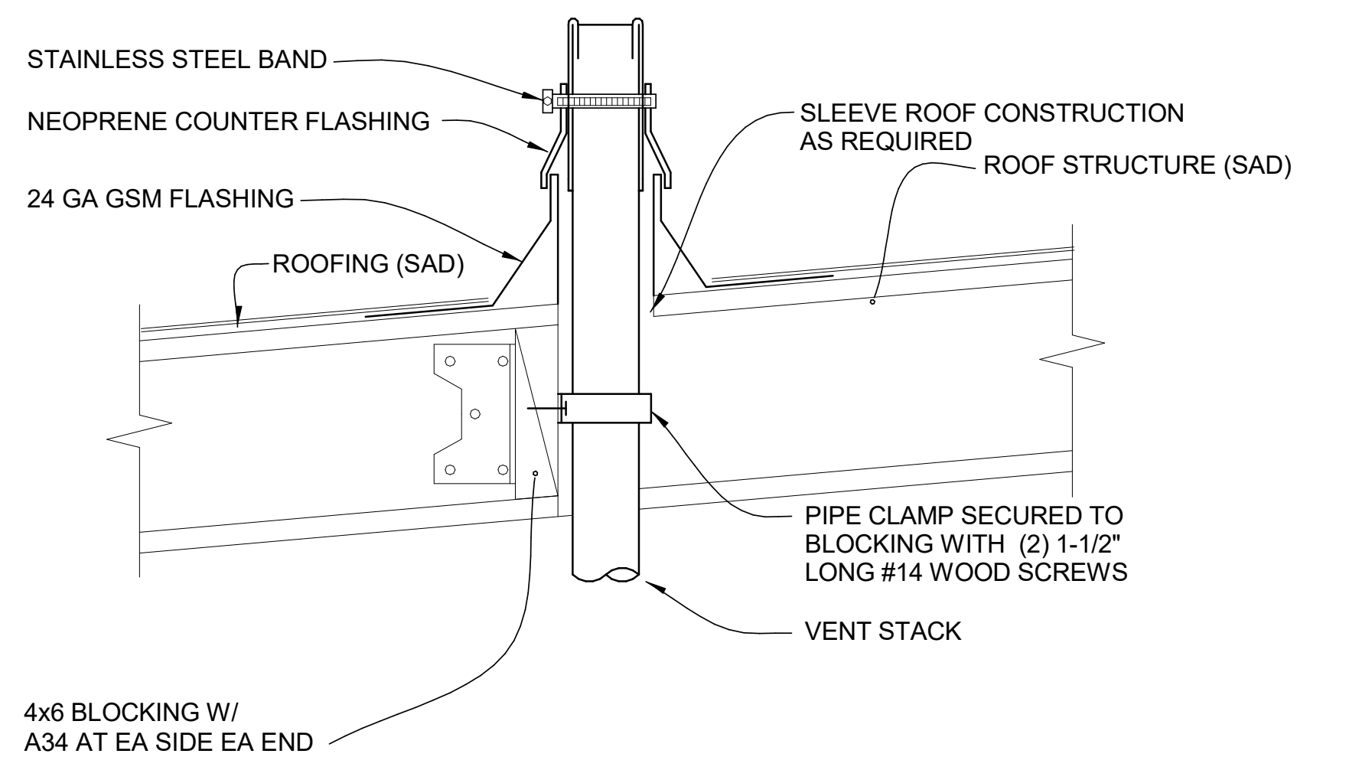
1. SUPPORT PIPING AT A MAXIMUM OF 8'-0" INTERVALS AND AT EVERY CHANGE IN DIRECTION.
2. MAX SUPPORT WEIGHT 100LB PER STRUT CHANNEL.

D PIPE BELOW EXISTING CEILING

SCALE: NTS

E NOT USED

SCALE: NTS


STAINLESS STEEL BAND
NEOPRENE COUNTER FLASHING
24 GA GSM FLASHING
ROOFING (SAD)
SLEEVE ROOF CONSTRUCTION AS REQUIRED
ROOF STRUCTURE (SAD)
PIPE CLAMP SECURED TO BLOCKING WITH (2) 1-1/2" LONG #14 WOOD SCREWS
VENT STACK
4x6 BLOCKING W/ A34 AT EA SIDE EA END

F VENT THRU ROOF DETAIL

SCALE: NONE

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DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: Author
DRAWING SCALE:
PTN: 61192-223 **FILE NO:** 1-H6

BID SET 2026

4.15.2026

SHEET TITLE

PLUMBING DETAILS

SHEET NUMBER

P-3.1

C:\Users\mquevedo\Documents\24032 Tennyson OPSC RVT24_mquevedo@costaengineers.com.rvt

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TENNYSON HIGH SCHOOL MODERNIZATION – 221083-QPSC

ELECTRICAL EQUIPMENT ANCHORAGE

ELECTRICAL ANCHORAGE NOTES:

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

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

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

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

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (eg., HCAi OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTION SYSTEMS ARE: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

LIGHT FIXTURES:

ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES, LEVELS, DIMENSIONS AND EXISTING CONDITIONS. THE INFORMATION ON THE DRAWINGS REGARDING EXISTING ELECTRICAL EQUIPMENT AND BRANCH CIRCUITS IS THE RESULT OF FIELD SURVEY AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. IT IS INTENDED, HOWEVER, AS A GUIDE FOR USE IN VERIFICATION ONLY.
2. ANY EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF NEW CONSTRUCTION NOT SHOWN ON THE EXISTING PLANS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER FOR DETERMINATION OF ACTION REQUIRED.
3. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS TO BE REMOVED, ALL CONDUIT AND WIRE BACK TO THE PANEL SHALL BE ENTIRELY REMOVED AND THE CIRCUIT IN PANEL SHALL BE MARKED "SPARE". THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
4. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS NOT TO BE REMOVED, THE CIRCUIT SHALL BE MAINTAINED CONTINUOUS TO THE EXISTING EQUIPMENT IN USE WITH MINIMUM INTERRUPTIONS OF POWER. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
5. WHENEVER THE REMOVAL OF EXISTING CONSTRUCTION REVEALS ELECTRICAL WORK THAT IS TO REMAIN, BUT IS IN CONFLICT WITH NEW CONSTRUCTION, RELOCATE THE EXISTING ELECTRICAL WORK AS NECESSARY TO AVOID ANY CONFLICT. RELOCATION WORK SHALL BE DONE TO MINIMIZE ANY INTERRUPTIONS OF POWER.
6. CARE SHALL BE TAKEN IN ORDER TO IDENTIFY AND PROTECT ALL EXISTING ELECTRICAL WORK THAT IS TO REMAIN.
7. ENSURE RECONNECTION OF EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTION TO ANOTHER EXISTING TO REMAIN DEVICE OR PANEL.
8. ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS FOR NEW WORK ARE THOSE WHICH ARE TO BE REUSED DURING SOME PHASE OF THE NEW CONSTRUCTION OR REQUIRE SOME SPECIAL CONSIDERATIONS.
9. WHENEVER THE REMOVAL OF EXISTING ELECTRICAL PANELBOARDS ARE CALLED FOR AND ALL EXISTING BRANCH CIRCUITS ARE NOT TO BE REMOVED, THE EXISTING BRANCH CIRCUITS SHALL BE CONNECTED TO OTHER EXISTING ELECTRICAL EQUIPMENT OR PANELS STILL IN USE WITH MINIMUM INTERRUPTIONS OF POWER. ALSO, IF REQUIRED, THESE SAME BRANCH CIRCUITS SHALL BE RECONNECTED TO RELOCATED EXISTING OR NEW PANELBOARDS AS PART OF THE NEW CONSTRUCTION. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT AND WIRE AS WELL.
10. THE ELECTRICAL CONTRACTOR SHALL REVISE EXISTING PANEL SCHEDULES TO CORRESPOND TO ACTUAL CONDITIONS AFTER ALL DEMOLITION AND NEW WORK IS COMPLETED.
11. REMOVE ALL ABANDONED CONDUIT AND WIRE ABOVE CEILINGS.
12. WHEN ELECTRICAL EQUIPMENT OR DEVICE IS REMOVED FROM AN EXISTING WALL OR CEILING WHICH IS TO REMAIN, PATCH ABANDONED OPENINGS TO MATCH EXISTING FINISH.
13. IN GENERAL, THE DEMOLITION PLANS SHOW ALL EXISTING EQUIPMENT THAT IS TO BE REMOVED UNLESS NOTED OTHERWISE. HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, WHERE LOCATED IN THE AREA SCHEDULED TO BE DEMOLISHED, SHALL BE REMOVED COMPLETELY (INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.) UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
14. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THE POINT BACK TO LAST OUTLET REMAINING IN SERVICE.
15. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
16. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF EXISTING CIRCUITS AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED
17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT. EQUIPMENT TO BE TEMPORARILY REMOVED DUE TO THE CONSTRUCTION SHALL BE CLEANED AND RE-INSTALLED IN ITS ORIGINAL CONDITION OR AS REQUIRED.
18. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT OFF AND CAPPED FLUSH WITH THE FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS.
19. IF ANY EQUIPMENT THAT IS SCHEDULED TO REMAIN IN OPERATION IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED TO ITS ORIGINAL CONDITION SATISFACTORY TO THE OWNER AT CONTRACTOR'S EXPENSE.

SYMBOLS LIST

	FIRE ALARM SYSTEM END-OF-LINE RESISTOR
FSD	FIRE SMOKE DAMPER BY MECHANICAL. COORDINATE WITH MECHANICAL FOR MONITORING TO FIRE ALARM SYSTEM (INCLUDING SMOKE DETECTOR PROVISIONS). CONTROL OF DAMPER TO BE BY MECHANICAL, U.O.N. PROVIDE TOGGLE TYPE DISCONNECT SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
■	WEATHERPROOF ENCLOSURE
———	CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
– – – –	CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND
—— - ——	CONDUIT AND WIRE RUN EXPOSED
	CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, NO HASHMARKS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.
	GROUND WIRE
(#10)	WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE, THROUGHOUT THE COMPLETE CIRCUIT
	FLEXIBLE METALLIC CONDUIT
	HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
	COMPLETE CONNECTION OF EQUIPMENT
	CONDUIT STUBBED OUT, CAPPED AND MARKED
———○	CONDUIT TURNED UP
———●	CONDUIT TURNED DOWN
3 E-6	DETAIL DESIGNATION - SEE DETAIL 3, SHEET E-6
①	NUMBERED SHEET NOTE
②	NUMBERED SHEET NOTE THAT REFERS TO TYPICAL ITEMS ON SHEET
M	UTILITY METER
CT'S	CURRENT TRANSFORMERS
30A 3P	CIRCUIT BREAKER. NUMBER INDICATES 30A 3-POLE
1504N	FEEDER SIZE - SEE POWER SINGLE LINE DIAGRAMS & FEEDER SCHEDULE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CATV	CABLE TV
CO	CONDUIT ONLY
CU	COPPER
E.C.	ELECTRICAL CONTRACTOR
E	EMERGENCY LIGHT FIXTURE ON EMERGENCY GENERATOR OR INVERTER, SWITCHABLE, U.O.N.
EM	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, SWITCHABLE
EMS	ENERGY MANAGEMENT SYSTEM
(E)	EXISTING
EQPT	EQUIPMENT
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(EX)	EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED
EXT	EXTERIOR
FMC	FLEXIBLE METALLIC CONDUIT
FTL	FEED THROUGH LUGS
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
L	LOCKABLE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEU	NEUTRAL
N.I.E.C.	NOT IN ELECTRICAL CONTRACT
O.A.H.	OVERALL HEIGHT
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
P	INDICATES FIXTURES ON PHOTOCELL CONTROL
PA	PUBLIC ADDRESS
PNL	PANEL
S.A.D.	SEE ARCHITECTURAL DRAWINGS
STC	SIGNAL TERMINAL CABINET
TC	INDICATES FIXTURES ON TIMECLOCK CONTROL
TELE	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
U.O.N.	UNLESS OTHERWISE NOTED
VAV	VAV BOX, SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH
WP	WEATHER PROOF, NEMA 3R
WPIU	WEATHER PROOF WHILE IN USE
(2)	NUMBER INDICATES QUANTITY

SYMBOLS LIST

▨	MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
	FLUSH MOUNTED PANELBOARD, 6'-6" TO TOP
	SURFACE MOUNTED PANELBOARD, 6'-6" TO TOP
	FUSED EQUIPMENT DISCONNECT SWITCH WITH FUSE SIZE AS RECOMMENDED BY EQUIPMENT MANUFACTURER
	MOTOR DISCONNECT SWITCH; HORSEPOWER RATED, NON FUSE
	COMBINATION MAGNETIC MOTOR STARTER & MOTOR CIRCUIT PROTECTOR
	MAGNETIC MOTOR STARTER
VFD	VARIABLE FREQUENCY DRIVE, FURNISHED BY MECHANICAL, INSTALLED & CONNECTED COMPLETE BY ELECTRICAL
	MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION
	MOTOR WITH FLEXIBLE CONDUIT CONNECTION AND DISCONNECT
$m	LINE VOLTAGE MOTOR RATED TOGGLE SWITCH INSTALLED AT EQPT SHOWN
T	TRANSFORMER
	CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISTY OR EQUAL WITH LABELED LID PER USE
	COPPER GROUND ROD
J	FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N.
J	FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
J	JUNCTION BOX FLUSH FLOOR MOUNTED
	20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.
	20A 3PG 125V DUPLEX RECEPTACLE, WEATHERPROOF, UP 18" U.O.N.
GFI	20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, UP 18" U.O.N.
IG	20A 3PG 125V DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, UP 18" U.O.N.
	20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
	20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, UP 18" U.O.N.
	20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
	20A 3PG 125V SINGLE RECEPTACLE, UP 18" U.O.N.
	20A 3PG 125V SINGLE TWISTLOCK RECEPTACLE, NEMA L5-20R, UP 18" U.O.N.
	SPECIAL RECEPTACLE AS INDICATED ON PLANS
	HALF CONTROLLED AND IDENTIFIED DUPLEX RECEPTACLE WIRED THROUGH LOCAL PLUG-LOAD CONTROLLER FOR ONE HALF OF DUPLEX, UP 18" U.O.N.
	FLUSH IN FLOOR OUTLET BOX WITH QUANTITY OF 20A 3PG 125V DUPLEX RECEPTACLES AS INDICATED ON PLANS
	FLUSH CEILING MTD. DUPLEX OUTLET, 20A 3PG
T	LINE VOLTAGE THERMOSTAT, FURNISHED BY MECHANICAL & INSTALLED BY ELECTRICAL, INCLUDING WIRING
	SURFACE MOUNTED WIREMOLD RACEWAY WITH RECEPTACLES AS INDICATED ON PLANS
	TERMINAL MOUNTING BACKBOARD, 3/4" PLYWOOD, DIMENSIONS AS NOTED ON PLANS, PAINT TO MATCH ADJACENT WALL SURFACE, MAINTAINING UL FIRE LABEL VISIBLE
	TELEPHONE OUTLET, UP 18" U.O.N.
w	TELEPHONE OUTLET, UP 48" U.O.N.
2D	COMBINED TELEPHONE/DATA OUTLET, UP 18" U.O.N.
	NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS
	COMBINED VOICE/DATA OUTLET, MOUNTED ABOVE COUNTER U.O.N.
	INTERCOM HANDSET, UP 48" U.O.N.
WAP	WIRELESS ACCESS POINT (WAP) W/CAT6 CABLE/JACKS AT CEILING
	WALL MOUNTED SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
TV	WALL MOUNTED VIDEO OUTLET, UP 18" U.O.N.
S	FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N.
S	FLUSH WALL MOUNTED OUTDOOR WEATHERPROOF PUBLIC ADDRESS SPEAKER
S	FLUSH CEILING MOUNTED INDOOR PUBLIC ADDRESS SPEAKER
S	FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER & SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
110 S	FIRE ALARM SYSTEM STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
110 S	FIRE ALARM SYSTEM STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
H	WEATHERPROOF FIRE ALARM SYSTEM HORN, UP 90" U.O.N.
110 V	FIRE ALARM SYSTEM SPEAKER/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
110 V	FIRE ALARM SYSTEM SPEAKER/STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
S	FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
S	WEATHERPROOF FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
S	FIRE ALARM SYSTEM SPEAKER, CEILING MOUNTED
D	WALL MOUNTED ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE, FURNISHED BY DIV. 8, INSTALLED & CONNECTED COMPLETE TO FIRE ALARM SYSTEM BY DIV. 28
FS	FIRE ALARM SYSTEM SPRINKLER FLOW SWITCH. PROVIDE MONITOR MODULE. SEE FIRE PROTECTION DRAWINGS
TS	FIRE ALARM SYSTEM SPRINKLER VALVE SUPERVISORY SWITCH. PROVIDE MONITOR MODULE. SEE FIRE PROTECTION DRAWINGS
PIV	POST INDICATING VALVE. PROVIDE MONITOR MODULE. SEE CIVIL DRAWINGS
B	SPRINKLER FLOW ALARM (PROVIDE BY SPRINKLER CONTRACTOR). CONNECT COMPLETE VIA WATER FLOW SWITCH AUX. CONTACTS. SEE FIRE PROTECTION DRAWINGS
S	FIRE ALARM SYSTEM SMOKE DETECTOR
E S	FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR PROGRAMMED FOR AUTOMATIC RECALL OF ELEVATOR
H	FIRE ALARM SYSTEM HEAT DETECTOR
D	FIRE ALARM SYSTEM HVAC DUCT MOUNTED SMOKE DETECTOR. COORDINATE WITH MECHANICAL FOR SUPPLY, INSTALL AND COMPLETE CONNECTION (INCLUDING CONTROL OF HVAC EQUIPMENT) - SEE SPECIFICATIONS
M	FIRE ALARM SYSTEM MONITOR MODULE
C	FIRE ALARM SYSTEM CONTROL MODULE
R	FIRE ALARM SYSTEM RELAY MODULE

SYMBOLS LIST

ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.

AA1	INDICATES LUMINAIRE TYPE, SEE LUMINAIRE SCHEDULE
	RECESSED 2'x2', 2'x4' OR 1'x4' LUMINAIRE, FULLY LENSED
	RECESSED 2'x2', 2'x4' LUMINAIRE WITH DECORATIVE ARTICULATED OPTICAL SHIELD
EM OR E	INDICATES EMERGENCY LUMINAIRE. SEE ABBREVIATIONS FOR TYPE OF EMERGENCY SOURCE
	SUSPENDED LINEAR LUMINAIRE
	INDICATES AIRCRAFT CABLE SUPPORT POINT (VERIFY WITH MANUFACTURER)
	INDICATES COMBINATION AIRCRAFT CABLE/ELECTRICAL FEED POINT (VERIFY WITH MANUFACTURER)
	SURFACE CEILING, WALL OR COVE MOUNTED LUMINAIRE
	UNDER CABINET LUMINAIRE
	SURFACE OR SUSPENDED STRIP LUMINAIRE
○ □	SURFACE CEILING MOUNTED LUMINAIRE
◎	PENDANT MOUNTED LUMINAIRE
	DECORATIVE CEILING MOUNTED LUMINAIRE
	SURFACE MOUNTED LIGHTING TRACK WITH TRACK LUMINAIRES
	RECESSED ADJUSTABLE ACCENT LUMINAIRE. ARROW INDICATES AIMING DIRECTION
	RECESSED DOWNLIGHT LUMINAIRE
	RECESSED WALLWASH LUMINAIRE. UNSHADED SIDE INDICATES DIRECTION OF WALL TO BE ILLUMINATED
	RECESSED DOWNLIGHT WITH DECORATIVE TRIM
	RECESSED OR SURFACE MOUNTED LINEAR WALLWASH LUMINAIRE. UNSHADED SIDE INDICATES DIRECTION OF WALL TO BE ILLUMINATED
	RECESSED DOWNLIGHT WITH DECORATIVE TRIM
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES
	CEILING MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES
	LOW LEVEL WALL MOUNTED EXIT SIGN
	WALL MOUNTED EMERGENCY BATTERY EGRESS LUMINAIRE WITH NUMBER OF ADJUSTABLE LAMP HEADS INDICATED
$a	LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
$2	LINE VOLTAGE TWO POLE TOGGLE SWITCH, UP 48" U.O.N.
$3	LINE VOLTAGE THREE-WAY TOGGLE SWITCH, UP 48" U.O.N.
$k	LINE VOLTAGE KEY OPERATED TOGGLE SWITCH
$p	LINE VOLTAGE TOGGLE SWITCH WITH PILOT LIGHT, LIGHT IS ON WHEN CIRCUIT IS CLOSED, UP 48" U.O.N.
Sab	LOW VOLTAGE MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
kSab	LOW VOLTAGE KEYED MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
	DIMMER SWITCH
aOSb	WALL MOUNTED SWITCH TYPE INFRARED OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
aDSb	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
OSD	WALL MOUNTED DIGITAL DUAL TECHNOLOGY DIMMING OCCUPANCY SENSOR SWITCH; UP 48" U.O.N.
Sa	WALL MOUNTED DIGITAL SWITCH, UP 48" U.O.N.; LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED
2Da,b	WALL MOUNTED SINGLE OR MULTI-ZONE DIGITAL DIMMER SWITCH, UP 48" U.O.N.; LOWER CASE LETTERS ADJACENT INDICATE RESPECTIVE ZONES TO BE SIMULTANEOUSLY MANUALLY CONTROLLED; NUMERAL DESIGNATES NUMBER OF ZONES ASSIGNED TO THE DEVICE
⊖	CEILING MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
	WALL MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
	LOW VOLTAGE COLD TEMPERATURE PIR OCCUPANCY SENSOR
	CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR
Z3,Z4 Ⓟ→	SINGLE OR MULTI-ZONE SWITCHING OR DIMMING OPEN LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
Z1 Ⓟ	SINGLE ZONE SWITCHING OR DIMMING CLOSED LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
Z1 Ⓟ	DAYLIGHT CONTROL PHOTOCELL - BRACKET MOUNTED; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
Z2	INDICATES DAYLIGHT ZONE CONTROLLED VIA PHOTOCELL
	ROOM CONTROLLER
RC 2	ADJACENT NUMERAL REFERS TO THE NUMBER OF ZONES TO BE CONTROLLED. VENDOR OR CONTRACTOR TO PROVIDE QUANTITY OF ROOM CONTROLLERS REQUIRED FOR THE NUMBER OF CONTROLLED ZONES.
PC	PLUG LOAD ROOM CONTROLLER
NB	NETWORK BRIDGE
MBR	MASTER WIRELESS BORDER ROUTER & NB - SWITCH IN NETWORK CABINET; SEE DETAILS FOR TYPE
BR 1	SECONDARY WIRELESS BORDER ROUTER
IR	ISOLATED RELAY INTERFACE
EC	EMERGENCY LIGHTING CONTROL MODULE
P	OCCUPANCY SENSOR POWER PACK MOUNTED IN CONCEALED ACCESSIBLE LOCATION
H	WIRELESS HUB

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE

ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION A5.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

GENERAL NOTES

1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
2. PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE, TO ALL ISOLATED GROUND RECEPTACLES.
3. PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION & CONNECTION REQUIREMENTS OF ALL LUMINAIRE(S) AND ALL OUTLET, SWITCH, AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LUMINAIRE(S) AND JUNCTION BOXES WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE PLANS PRIOR TO ROUGH-IN.
5. REFER TO MECHANICAL PLANS FOR EXACT LOCATION(S) OF ALL MECHANICAL EQUIPMENT, AND CONFIRM EXACT CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DIVISION, PRIOR TO ROUGH-IN. VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSE-POWER, OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
6. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
7. COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
8. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION RATING.
9. DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
10. THE CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING OF LUMINAIRE(S). ALSO VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULE WHEN LUMINAIRE ORDERS ARE PLACED, AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
11. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
12. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
13. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
14. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
15. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
16. ALL EXTERIOR CONDUIT ABOVE GRADE, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS, AS DIRECTED BY THE ARCHITECT.
17. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
18. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING CONCRETE EQUIPMENT PADS, CONDUITS, PULLBOXES AND CLEARANCES, MEET THE UTILITY COMPANY'S REQUIREMENTS, PRIOR TO INSTALLATION.
20. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED.
21. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
22. ALL EXIT SIGNS SHALL COMPLY WITH THE RELEVANT PORTIONS OF SECTIONS 1008 AND 1013 OF THE CBC.
23. ALL MECHANICAL DIVISION EQUIPMENT LOW VOLTAGE CONTROL WIRING AND RACEWAY SHALL BE PROVIDED AND INSTALLED AS SPECIFIED IN MECHANICAL DIVISION U.O.N.
24. COORDINATE INSTALLATION OF ALL RECESSED LUMINAIRE(S) WITH MECHANICAL DIVISION PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF LUMINAIRE(S) THAT THERE IS NO CONTACT BETWEEN DUCTS AND LUMINAIRE(S) TO AVOID VIBRATION IN LUMINAIRE(S).
25. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL CONNECTIONS TO "CRITICAL EQUIPMENT" AS DEFINED IN SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT.
26. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS.
27. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
28. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
29. ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED AREAS SHALL BE "WIREMOLD" TYPE, WITH MATCHING RACEWAYS. SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE NOT ACCEPTABLE.
30. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANELBOARDS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH SURROUNDING CONDITIONS OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
31. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.
32. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES: RECEPTACLES LOCATED IN "WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED; RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG ATTACHED.
33. WHEN SERIES RATING IS USED ON ANY CIRCUIT BREAKER ON THIS PROJECT PROVIDE A FIELD MARKING PER CEC 110-22 ON THE EQUIPMENT COVER THAT IS VISIBLE TO MAINTENANCE PERSONNEL INDICATING THAT THE BREAKER HAS BEEN APPLIED WITH A SERIES COMBINATION RATING.
34. ALL RECEPTACLES IN LOCATIONS IDENTIFIED IN NEC 406.12 (I.E. DWELLING UNITS, HOTEL/MOTEL GUEST ROOMS, CHILD CARE, PRESCHOOL, K-12 SCHOOLS, BUSINESS OFFICE COMMON AREAS, IN CLINICS. MEDICAL AND OUTPATIENT FACILITIES, ASSEMBLY AREA COMMON AREAS, DORMITORY UNITS, AND ASSISTED LIVING UNITS) SHALL BE TAMPER RESISTANT.
35. REMOVE ALL (E) FIRE ALARM DEVICES IN THE AREA OF THE NEW SCOPE OF WORK AND STORE IN A SECURED AREA FOR REINSTALLATION PRIOR TO THE PROJECT COMPLETION. PROTECT ALL RACEWAYS AND CABLING IN PLACE DURING CONSTRUCTION. COMPLETELY TEST AND REPROGRAM AS REQUIRED.

LIST OF DRAWINGS

E-0.1	SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS
E-0.2	LUMINAIRE SCHEDULE
E-G2.1	BUILDING G FLOOR PLAN - LIGHTING
E-G3.0	BUILDING G FLOOR PLAN - DEMOLITION
E-G3.1	BUILDING G FLOOR PLAN - ELECTRICAL & TELECOM/SIGNAL
E-5.1	LIGHTING CONTROLS
E-8.1	TITLE 24 DOCUMENTATION
FE-0.1	FIRE ALARM EQUIPMENT LIST & NOTES
FE-1.1	REFERENCE SITE PLAN - FIRE ALARM
FE-G3.1	BUILDING G FLOOR PLAN - FIRE ALARM
FE-5.1	RISER DIAGRAM & CALCULATIONS - FIRE ALARM

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SHEET TITLE

SYMBOLS LIST,
GENERAL
NOTES & LIST
OF DRAWINGS

SHEET NUMBER

E-0.1

TENNYSON HIGH SCHOOL MODERNIZATION – 221083-OPSC

LUMINAIRE SCHEDULE

TYPE	MOUNTING	DESCRIPTION	MANUFACTURER CATALOG #	LIGHT SOURCE	POWER SUPPLY	VOLTS	INPUT WATTS
AB1	SURFACE	LOW PROFILE LED STRIP LIGHT IN COLD-ROLLED STEEL HOUSING, WITH STANDARD DIFFUSE SNAP ON/OFF LENS WITH WIRE GAURD. NOM. 4' LENGTH. STANDARD AFTER-FABRICATION FINISH AS SELECTED BY ARCHITECT. WEIGHT: <20 LBS.	LITHONIA ZL1D-L48-5000LM-FST-MVOLT-35K-80CRI-WG-FINISH	3500K LED 80 CRI 5457 LM	NON-DIMMING	UNV	41W
AB2	SURFACE	SIMILAR TO TYPE AB1 EXCEPT 2' LENGTH.	LITHONIA ZL1D-L24-2500LM-FST-MVOLT-35K-80CRI-FINISH	3500K LED 80 CRI 2743 LM	NON-DIMMING	UNV	22W
AE1	SURFACE	SURFACE CEILING MOUNTED DOWNLIGHT LUMINAIRE WITH DIE CAST ALUMINUM CONSTRUCTION HOUSING WITH POLYESTER EPOXY POWDER COAT FINISH TO BE DETERMINED BY THE ARCHITECT. VANDAL RESISTANT STAINLESS STEEL FASTENERS, IMPACT RESISTANT DIFFUSE 0.125" THICK WHITE POLYCARBONATE LENS. CONDUIT SURFACE MOUNT ADAPTER. IK10 IMPACT RESISTANCE. IP66 INGRESS PROTECTION. 14.1" DIAMETER X 5.73" D. WEIGHT: 15 LBS.	PARAMOUNT LIGHTING PMVR14RO-120V-35K-CRI85-50L-FINISH-TPS-CSM	3500K LED 85 CRI 5043 LM	NON-DIMMING	120V	44W
AE1E	SURFACE	SIMILAR TO TYPE AE1 EXCEPT WITH INTEGRAL EMERGENCY BACKUP BATTERY.	PARAMOUNT LIGHTING PMVR14RO-120V-35K-CRI85-50L-FINISH-TPS-CSM-BBU	3500K LED 85 CRI 5043 LM	NON-DIMMING + INTEGRAL 500LM EM BATTERY	120V	44W
AE2	SURFACE	SIMILAR TO TYPE AE1 EXCEPT WITH LOWER LUMEN OUTPUT.	PARAMOUNT LIGHTING PMVR14RO-120V-35K-CRI85-38L-FINISH-TPS-CSM	3500K LED 85 CRI 3812 LM	NON-DIMMING	120V	33W
AE2E	SURFACE	SIMILAR TO TYPE AE1 EXCEPT WITH LOWER LUMEN OUTPUT AND INTEGRAL EMERGENCY BACKUP BATTERY.	PARAMOUNT LIGHTING PMVR14RO-120V-35K-CRI85-38L-FINISH-TPS-CSM-BBU	3500K LED 85 CRI 3812 LM	NON-DIMMING + INTEGRAL 500LM EM BATTERY	120V	33W
AE3	SURFACE	SIMILAR TO TYPE AE1 EXCEPT WITH LOWER LUMEN OUTPUT.	PARAMOUNT LIGHTING PMVR14RO-120V-35K-CRI85-15L-FINISH-TPS-CSM	3500K LED 85 CRI 1512 LM	NON-DIMMING	120V	13W ASI
EX5	EXIT SIGN	UNIVERSAL MOUNTED SINGLE FACED EXIT SIGN WITH EXTRUDED ALUMINUM HOUSING, FIELD SELECTABLE CHEVRONS, GREEN LETTERS, AND RECHARGEABLE NICKEL CADMIUM BATTERY. BRUSHED ALUMINUM, BLACK, WHITE FACE AND FRAME COLOR TO BE DETERMINED BY THE ARCHITECT. WIRE GUARD.	ISOLITE LPDC2-EM-G-1-BODY COLOR-FACE COLOR-MTEB-MCE(IF REQUIRED)-WG-16.5LX14.0WX3.0D	N/A	N/A	UNV	5W

NOTE: ANCHORAGE DETAILS FOR NON-STRUCTURAL COMPONENTS WEIGHING <20LBS ARE NOT REQUIRED PER ASCE 7, CHAPTER 13.

END OF LUMINAIRE SCHEDULE

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SHEET TITLE

LUMINAIRE SCHEDULE

SHEET NUMBER

E-0.2

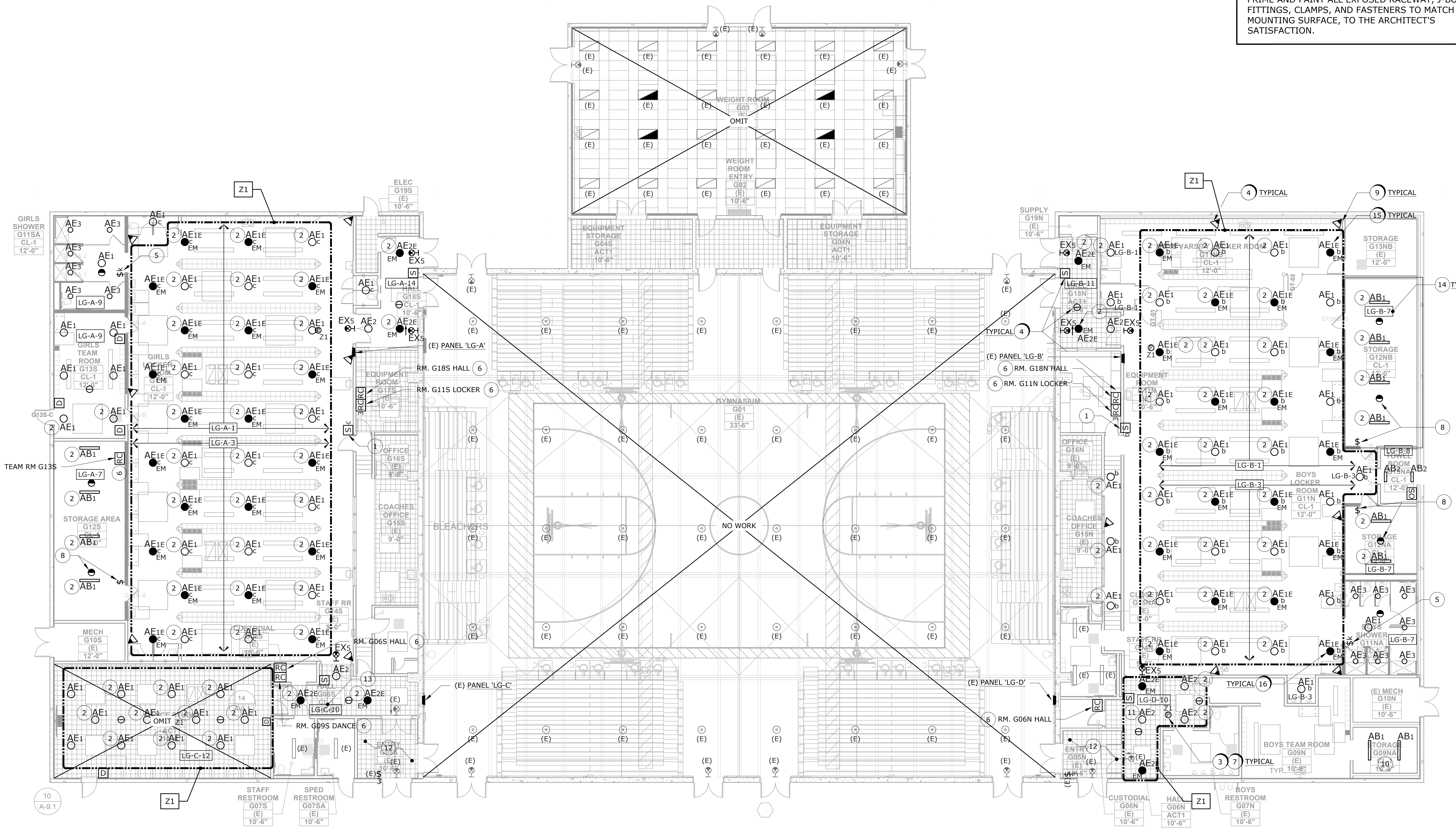
TENNYSON HIGH SCHOOL MODERNIZATION – 221083-OPSC

LIGHTING CIRCUITS

TYPICAL THIS SHEET. PROVIDE NEW BRANCH CIRCUIT WIRING THROUGHOUT. RE-USE EXISTING RACEWAY AS MUCH AS POSSIBLE. WHERE CEILINGS AND WALLS ARE OPENED, PROVIDE AND INSTALL NEW CONCEALED RACEWAY. WHERE NOT POSSIBLE TO CONCEAL RACEWAY, SURFACE RACEWAY AT CEILINGS AND WALLS SHALL BE ACCEPTABLE.

PROVIDE SHOP DRAWINGS TO ARCHITECT SHOWING ROUTING OF ALL EXPOSED CONDUIT. OBTAIN ARCHITECT'S APPROVAL FOR CONDUIT ROUTING PRIOR TO ROUGH-IN.

PRIME AND PAINT ALL EXPOSED RACEWAY, J-BOXES, FITTINGS, CLAMPS, AND FASTENERS TO MATCH THE MOUNTING SURFACE, TO THE ARCHITECT'S SATISFACTION.



BLDG G FLOOR PLAN - LIGHTING

SCALE: 3/32" = 1'-0"

1
E-G2.1

NORTH

NUMBERED SHEET NOTES

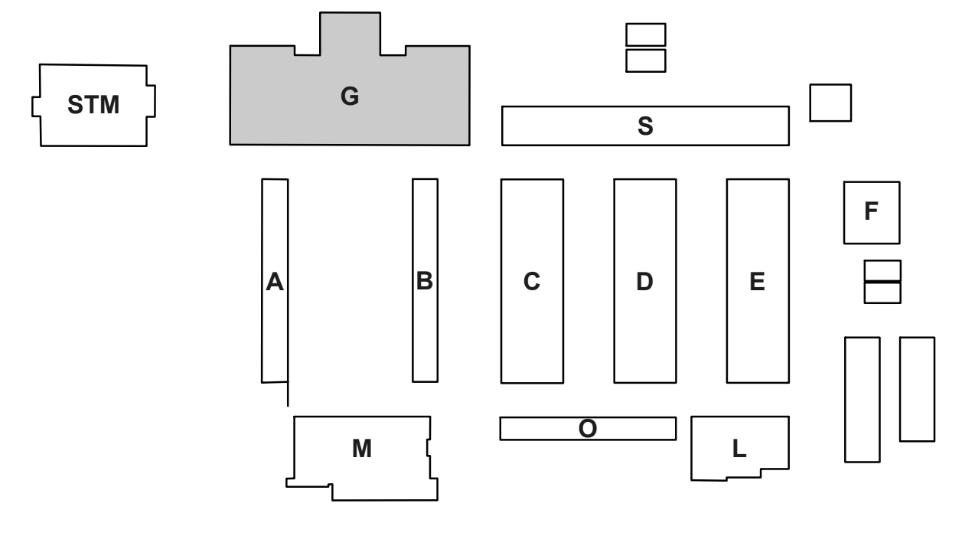
1. WATTSTOPPER LMDSW-101 DIGITAL SWITCH. PROGRAM SYSTEM SO SWITCH CAN TURN LIGHTS ON, BUT NOT OFF. ENGRAVE SWITCH "LOCKER ROOM".
2. INSTALL NEW LUMINAIRE IN THE SAME LOCATION AS THE REMOVED LUMINAIRE, COMPLETELY COVERING THE OPENING IN THE CEILING.
3. WHEN ADJUSTING DIMMING PARAMETERS FOR DAYLIGHT CONTROLS, MEASURE ROOM WORK PLANE ILLUMINATION AT THE POINT IN THE DAYLIT ZONE (AS SHOWN ON PLANS) THAT IS FURTHEST FROM THE SKYLIGHT.
4. PROVIDE AND INSTALL SWITCHES, ISOLATED RELAYS, PHOTOSENSORS, AND ROOM CONTROLLERS WHERE SHOWN. SEE DETAILS ON SHEET E-5.1. MOUNT ROOM CONTROLLER ABOVE ACCESSIBLE CEILING WHEREVER POSSIBLE.
5. KEY-OPERATED LINE VOLTAGE SWITCH. CONNECT SWITCH TO LOAD SIDE OF OCCUPANCY SENSORS SO NONE OF THE LIGHTS IN THE RESTROOM COME ON IF THE KEY SWITCH IS OFF.
6. MOUNT ROOM CONTROLLERS IN NEMA 1 ENCLOSURE PER DETAIL 4/E-5.1. MOUNT AS HIGH ON THE WALL AS PRACTICAL. COORDINATE EXACT LOCATION WITH DISTRICT PRIOR TO ROUGH-IN.
7. WATTSTOPPER LMLS-400 CLOSED LOOP SENSOR.
8. CONNECT OCCUPANCY SENSORS IN PARALLEL AND CONNECT LINE-VOLTAGE SWITCH TO LOAD SIDE OF OCCUPANCY SENSORS SO NONE OF THE LIGHTS IN THE RESTROOM COME ON IF THE SWITCH IS OFF.
9. WATTSTOPPER LMDX-100 DUAL TECH OCCUPANCY SENSOR. MOUNT TO CEILING, CLOSE TO WALLS.
10. REMOVE AND DISPOSE OF EXISTING LIGHTS. REPLACE WITH NEW LIGHTS AND CONNECT COMPLETE TO EXISTING CIRCUIT AND CONTROLS.
11. EXTEND EXISTING CIRCUIT LG-D-10, INCLUDING UNSWITCHED HOT, FROM EXISTING LIGHTS IN ENTRY G05N TO NEW LIGHTS AND CONNECT COMPLETE. CONNECT BOTH SWITCHED AND UNSWITCHED HOT TO EMERGENCY LIGHTS CONTAINING INTEGRAL BATTERY.
12. RECONNECT WIRING AT EXISTING SWITCH AND EXISTING LIGHTS IN ENTRY G05N AND ENTRY G05S TO CONVERT SWITCH FROM 3-WAY TO SIMPLE ON/OFF OPERATION.
13. CONNECT NEW LIGHTS IN HALL G06S TO EXISTING CIRCUIT BREAKER LG-C-10. EXTEND CIRCUIT AND RECONNECT TO EXISTING LIGHTS IN ENTRY G05S AND ADJACENT RESTROOMS.
14. CONNECT NEW LIGHTS IN THIS ROOM OR INDICATED AREA TO INDICATED EXISTING CIRCUIT BREAKER. SEE NOTE "LIGHTING CIRCUITS" ON THIS SHEET.
15. INSTALL THIS LUMINAIRE WHERE NO PREVIOUS LUMINAIRE EXISTED. EXTEND SURFACE RACEWAY TO THIS LUMINAIRE. TYPICAL FOR ALL LUMINAIRES WITHOUT SHEET NOTE 2 INDICATED.
16. FOR EMERGENCY LIGHTS WITH INTEGRAL BATTERY, EXTEND BOTH UNSWITCHED AND SWITCHED HOT TO THE LIGHT.

LIGHTING CONTROLS SEQUENCE OF OPERATION

ROOM TYPE	OCCUPANCY SENSOR					PHOTOCELL		TIME CLOCK		SYSTEM		REMARKS
	AUTO ON	MANUAL ON	AUTO OFF	PARTIAL OFF AT NORMAL HOURS	AUTO OFF AFTER HOURS	AUTO DIM @ TARGET FC	SET LEVEL FC	ASTRONOMICAL TIME CLOCK	MANUAL OVERRIDE DELAY	PLUG LOAD	DEMAND RESPONSE (NOTE 6)	
LOCKER ROOM	X		20 MIN								NOT REQUIRED	
HALL	X		20 MIN								NOT REQUIRED	
STORAGE		X	20 MIN								NOT REQUIRED	
DANCE STUDIO		X	20 MIN								NOT REQUIRED	
RESTROOM, SHOWER	X		20 MIN								NOT REQUIRED	
TEAM ROOM		X	20 MIN								NOT REQUIRED	

NOTES:
1. THIS SCHEDULE IS NOT INTENDED TO DEFINE WHICH CONTROLS ARE TO BE INSTALLED IN EACH SPACE TYPE.
2. FOR ACTUAL CONTROL DEVICES TO BE INSTALLED IN EACH SPACE, REFER TO PLANS.
3. ALL SETPOINTS AND TIME SCHEDULES TO BE VERIFIED WITH OWNER PRIOR TO PROGRAMMING.
4. FOOTCANDLE LEVELS BASED ON THE IESNA LIGHTING STANDARDS. LIGHTING LEVELS SUBJECT TO CHANGE PER ENERGY CODE COMPLIANCE AND OWNER REQUEST AND ARE MEANT TO BE USED AS A BASELINE DEFAULT FOR PROGRAMMING.
5. DEMAND RESPONSE CONTROLS ARE ONLY REQUIRED IF QUALIFYING LIGHTING LOAD EXCEEDS 4000 WATTS. IF DEMAND RESPONSE REQUIRED, TOTAL AREA LIGHTING POWER MUST BE REDUCED BY AT LEAST 15%.

KEYPLAN



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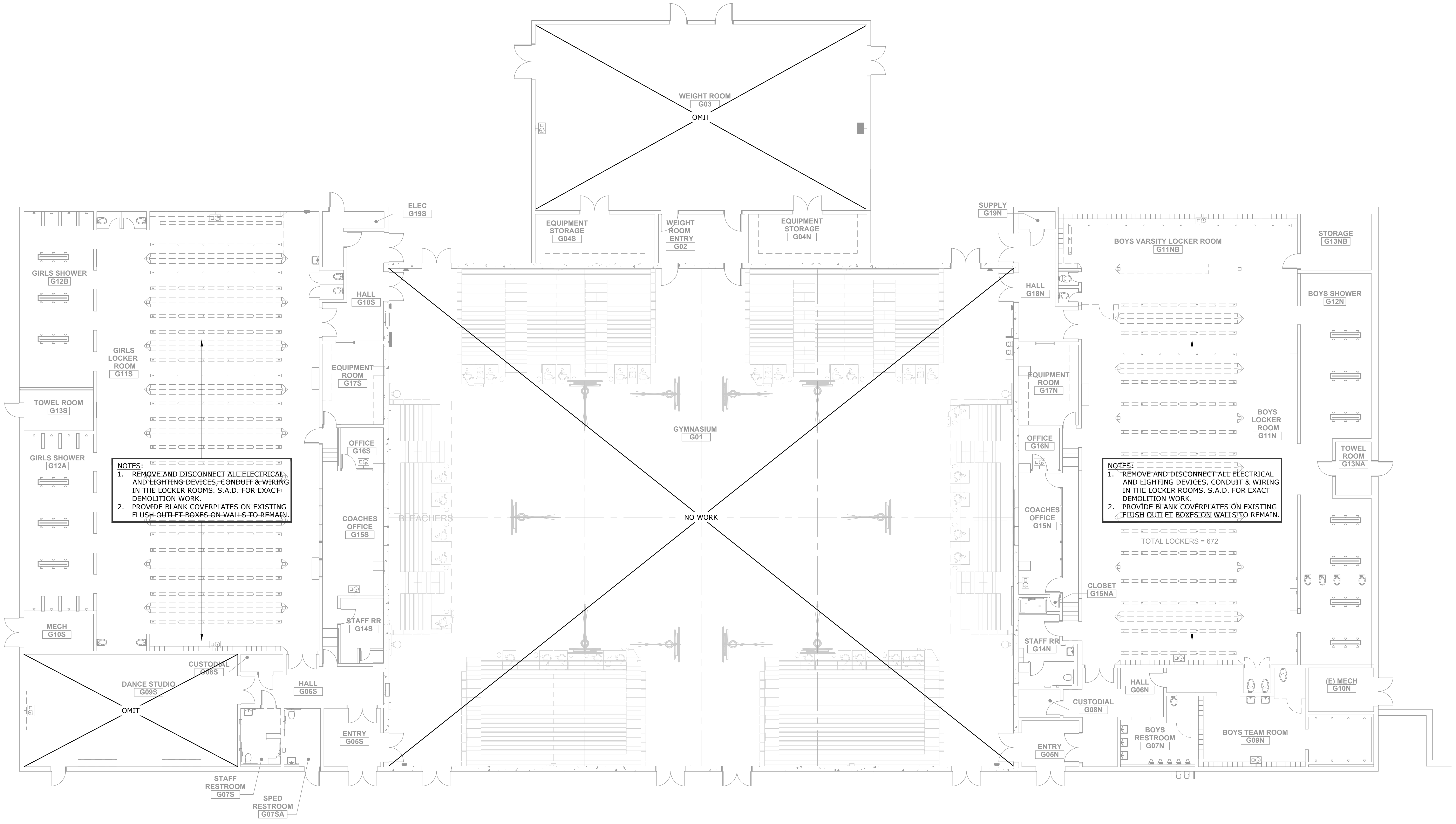
BLDG G FLOOR PLAN - LIGHTING

SHEET NUMBER

E-G2.1



NOTES:
1. REMOVE AND DISCONNECT ALL ELECTRICAL AND LIGHTING DEVICES, CONDUIT & WIRING IN THE LOCKER ROOMS. S.A.D. FOR EXACT DEMOLITION WORK.
2. PROVIDE BLANK COVERPLATES ON EXISTING FLUSH OUTLET BOXES ON WALLS TO REMAIN.

NOTES:
1. REMOVE AND DISCONNECT ALL ELECTRICAL AND LIGHTING DEVICES, CONDUIT & WIRING IN THE LOCKER ROOMS. S.A.D. FOR EXACT DEMOLITION WORK.
2. PROVIDE BLANK COVERPLATES ON EXISTING FLUSH OUTLET BOXES ON WALLS TO REMAIN.

BLDG G DEMO FLOOR PLAN - ELECTRICAL

SCALE: 3/32" = 1'-0"

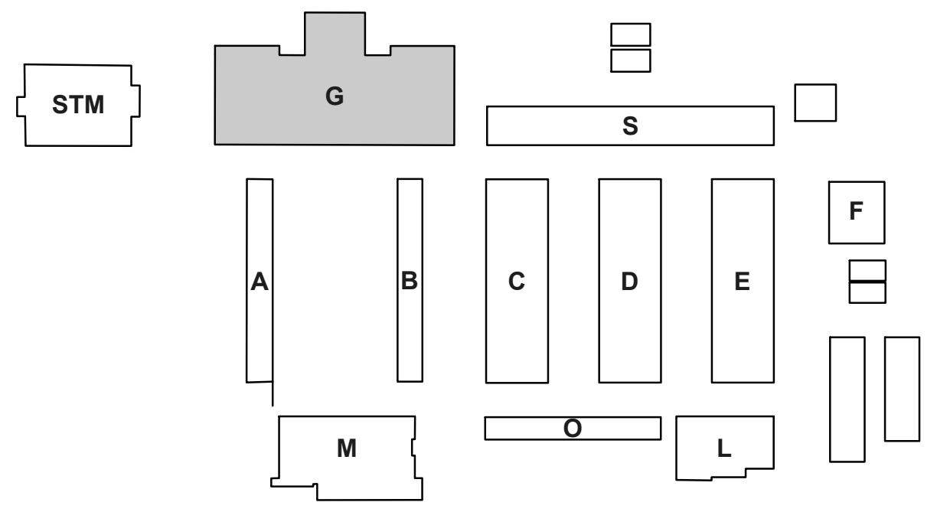
1
E-G3.0

NORTH

NUMBERED SHEET NOTES

① NOT USED.

KEYPLAN



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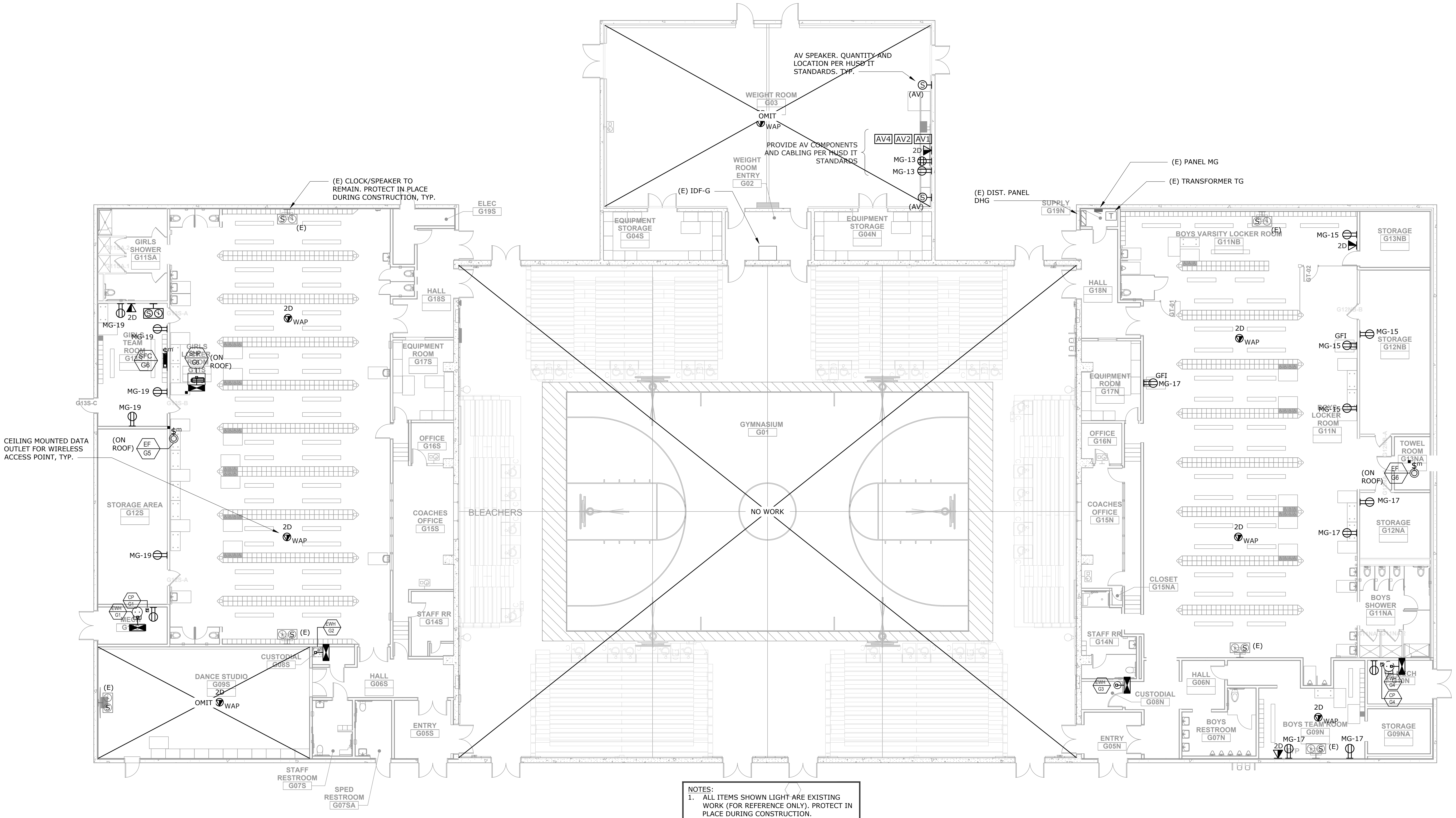
SHEET TITLE

BLDG G DEMO FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E-G3.0

TENNYSON HIGH SCHOOL MODERNIZATION – 221083-OPSC

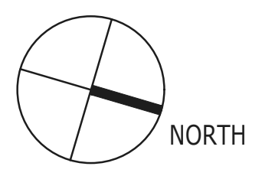


NOTES:
1. ALL ITEMS SHOWN LIGHT ARE EXISTING WORK (FOR REFERENCE ONLY). PROTECT IN PLACE DURING CONSTRUCTION.
2. ALL ITEMS SHOWN DARK ARE NEW.
3. PROVIDE SURFACE WIREMOLD RACEWAYS ON ALL NEW DEVICES ON EXISTING WALLS.

BLDG G FLOOR PLAN - ELECTRICAL & TELECOM/SIGNAL

SCALE: 3/32" = 1'-0"

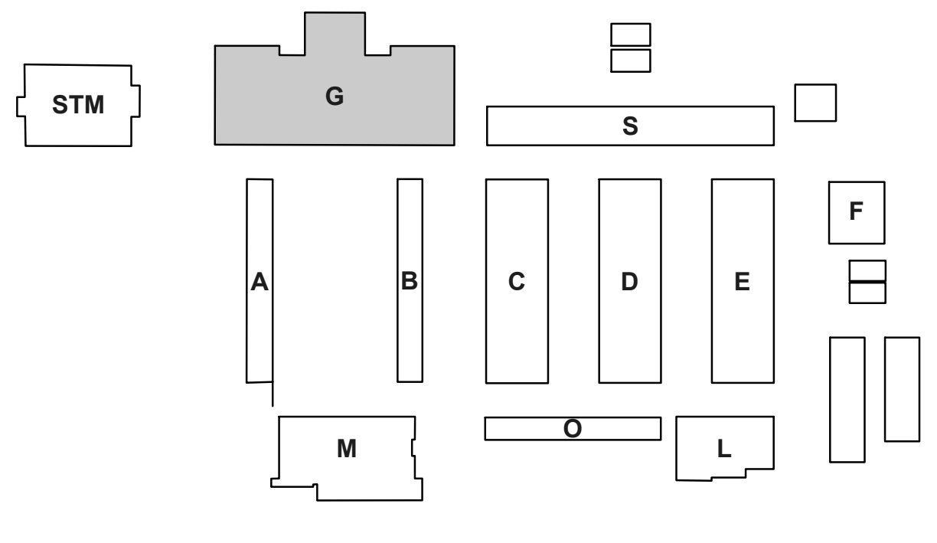
1
E-G3.1



NUMBERED SHEET NOTES

① NOT USED.

KEYPLAN



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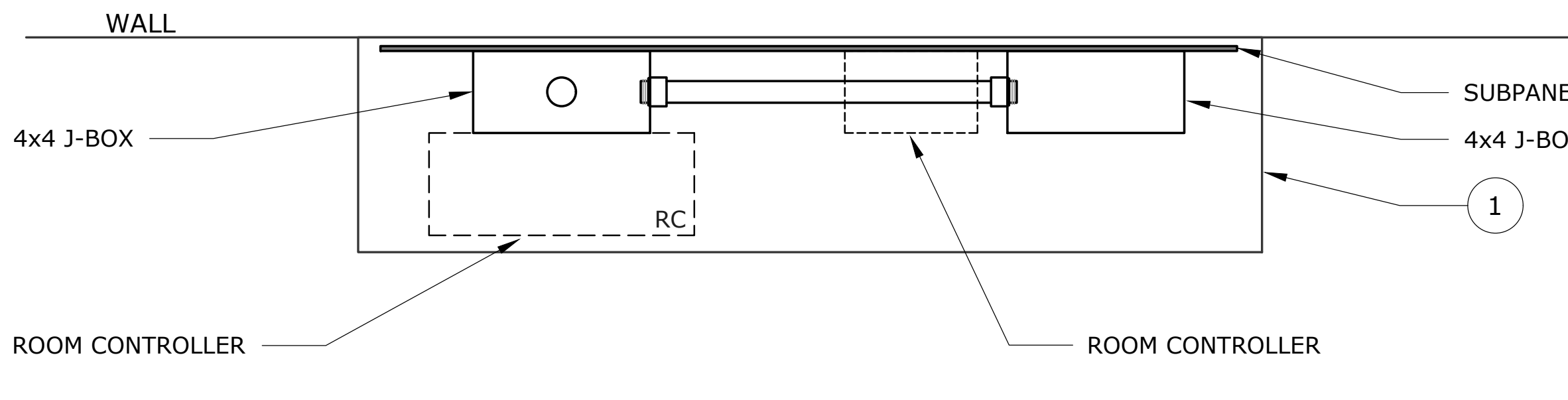
BLDG G FLOOR PLAN - ELECTRICAL & TELECOM/ SIGNAL

SHEET NUMBER

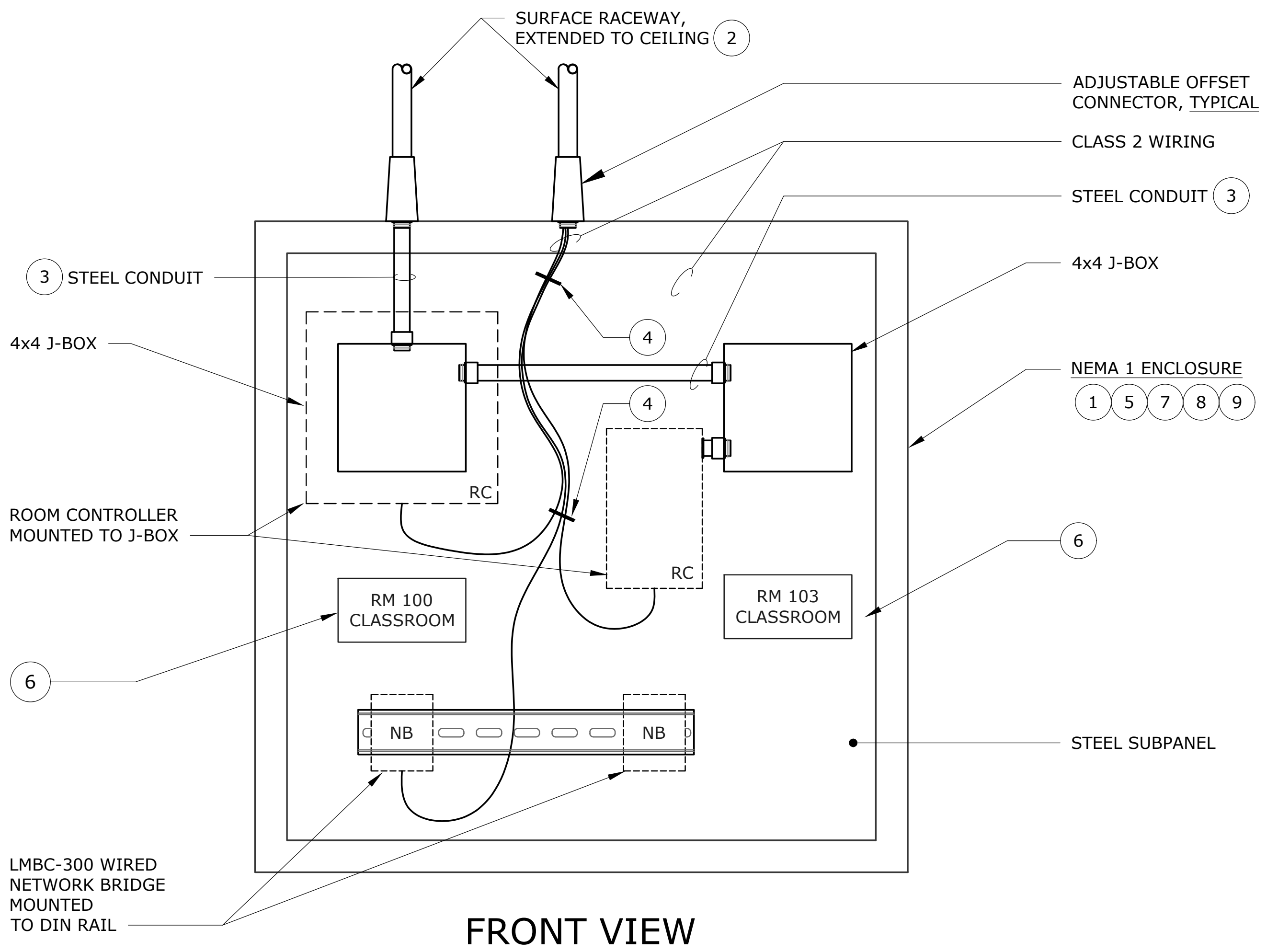
E-G3.1

TENNYSON HIGH SCHOOL MODERNIZATION – 221083-OPSC

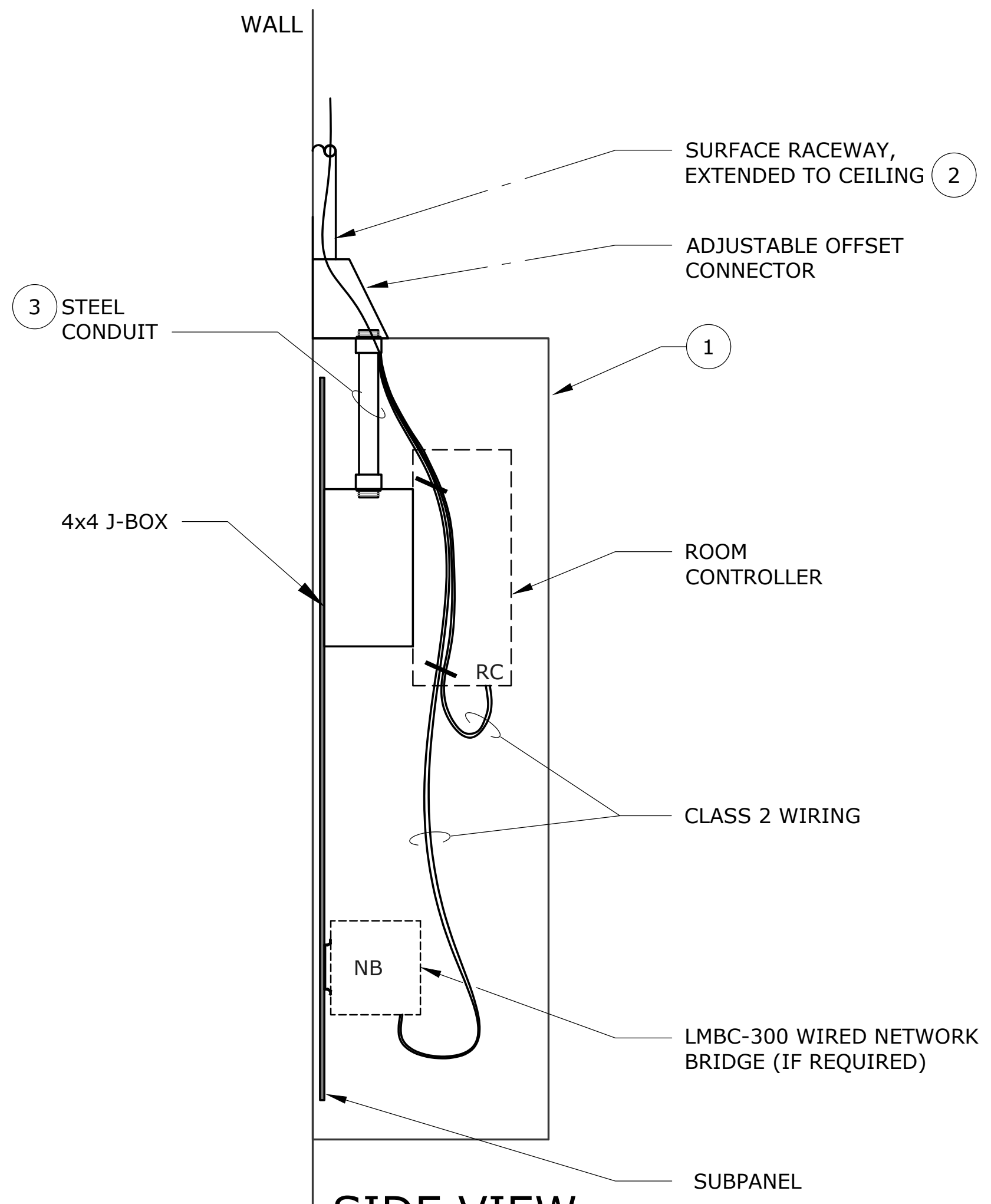
NOTE: NOT ALL CONTROL DEVICES SHOWN ARE REQUIRED IN ALL ROOMS. SEE FLOOR PLANS FOR ACTUAL DEVICE QUANTITIES.



TOP VIEW


SURFACE RACEWAY, EXTENDED TO CEILING 2
ADJUSTABLE OFFSET CONNECTOR, TYPICAL
CLASS 2 WIRING
STEEL CONDUIT 3
3 STEEL CONDUIT
4x4 J-BOX
4x4 J-BOX
NEMA 1 ENCLOSURE
1 5 7 8 9
4
4
RC
RC
ROOM CONTROLLER MOUNTED TO J-BOX
RM 100 CLASSROOM
RM 103 CLASSROOM
6
6
NB
NB
STEEL SUBPANEL
LMBC-300 WIRED NETWORK BRIDGE MOUNTED TO DIN RAIL

FRONT VIEW


WALL
SURFACE RACEWAY, EXTENDED TO CEILING 2
ADJUSTABLE OFFSET CONNECTOR
3 STEEL CONDUIT
1
4x4 J-BOX
ROOM CONTROLLER
RC
CLASS 2 WIRING
NB
LMBC-300 WIRED NETWORK BRIDGE (IF REQUIRED)
SUBPANEL

SIDE VIEW

TYPICAL ROOM CONTROLLER WALL MOUNTING IN ROOMS WITHOUT ACCESSIBLE CEILING

4
E-5.1

SCALE: NONE
FILE: L:\DETAILS\Light\LTG CONTROL\LLCO040A

DETAIL NOTES

① NEMA 1 ENCLOSURE WITH HINGE AND LOCKABLE LATCH, PAINTED TO MATCH WALL SURFACE. SIZE AS REQUIRED. SEE FLOOR PLANS FOR DEVICE QUANTITIES. MAXIMUM ENCLOSURE SIZE ALLOWED IS 24” X 24” X 6”. IF MORE SPACE IS REQUIRED, PROVIDE MULTIPLE ENCLOSURES.

② WHERE POSSIBLE, CONCEAL ALL WIRING IN WALLS OR CEILING. OTHERWISE, ENCLOSE WIRING IN SURFACE RACEWAY (WIREMOLD STEEL RACEWAY OR EQUAL) PAINTED TO MATCH WALL SURFACE.

③ INSIDE THE ENCLOSURE, ENCLOSE CLASS 1 WIRING IN CONDUIT.

④ INSIDE THE ENCLOSURE, BUNDLE CLASS 2 WIRING NEATLY USING CABLE TIES.

⑤ INSIDE THE ENCLOSURE, GROUP DEVICES BY ROOM AND BY "IN-ROOM-BUS".

⑥ PROVIDE AN ENGRAVED LAMINATED PLASTIC NAME-PLATE FOR EACH GROUP OF DEVICES SERVING ONE ROOM - ATTACH TO SUBPANEL BY MACHINE SCREWS - BY E.C.; LABEL DEVICES BY ROOM NUMBER AND ROOM DESCRIPTION PER ARCHITECTURAL DRAWINGS.

⑦ PROVIDE AN ENGRAVED LAMINATED PLASTIC NAME-PLATE ON ENCLOSURE FRONT: "ROOM CONTROLLER CABINET". ATTACH BY MACHINE SCREWS - BY E.C.

⑧ AFTER INSTALLATION IS COMPLETE, PROPERLY PREPARE AND PAINT EXPOSED ENCLOSURE SURFACES AS DIRECTED BY, AND TO THE SATISFACTION OF, THE ARCHITECT, WITH ONE COAT PRIMER AND TWO (2) COATS ENAMEL PAINT TO MATCH ADJACENT SURFACE(S).

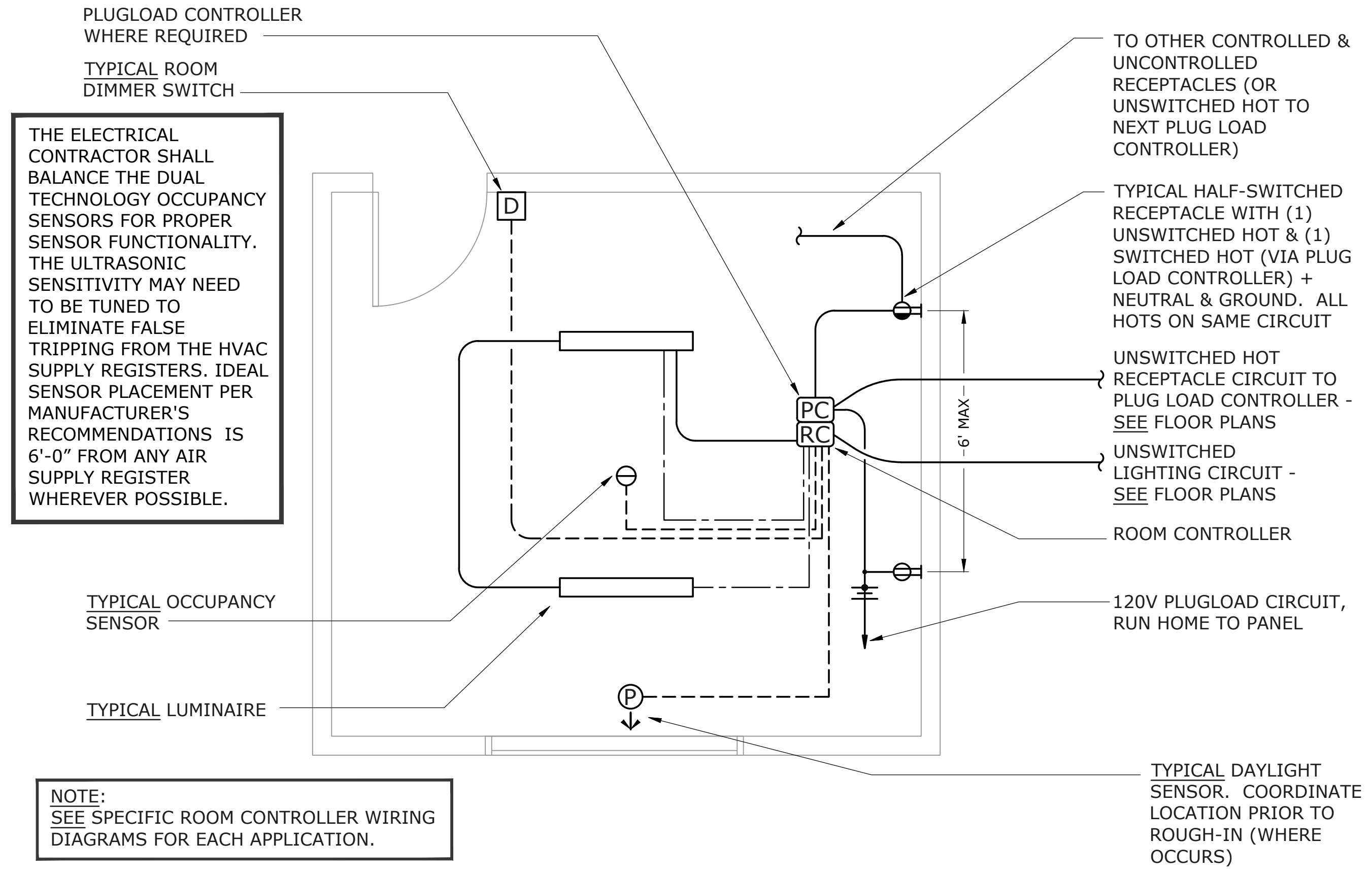
⑨ THE MAXIMUM COMBINED WEIGHT OF ENCLOSURE AND CONTENTS SHALL BE 100 LBS.

⑩ SEE 3/E-5.1 FOR MOUNTING.

WIRING LEGEND

———	BRANCH CIRCUIT WIRING - PROVIDED AND INSTALLED BY CONTRACTOR. EXACT QTY., TYPE AND SIZE VARIES
- - - -	CAT6A UTP CABLING - PROVIDED AND INSTALLED BY CONTRACTOR, VERIFY WIRE TYPE WITH LIGHTING CONTROL MANUFACTURER
—-—	0-10V DIMMING CONTROL WIRING
⊖	UNCONTROLLED RECEPTACLE
◒	SPLIT-WIRED CONTROLLED RECEPTACLE

THE ELECTRICAL CONTRACTOR SHALL BALANCE THE DUAL TECHNOLOGY OCCUPANCY SENSORS FOR PROPER SENSOR FUNCTIONALITY. THE ULTRASONIC SENSITIVITY MAY NEED TO BE TUNED TO ELIMINATE FALSE TRIPPING FROM THE HVAC SUPPLY REGISTERS. IDEAL SENSOR PLACEMENT PER MANUFACTURER'S RECOMMENDATIONS IS 6'-0” FROM ANY AIR SUPPLY REGISTER WHEREVER POSSIBLE.


PLUGLOAD CONTROLLER WHERE REQUIRED
TYPICAL ROOM DIMMER SWITCH
D
PC
RC
6' MAX
P
TO OTHER CONTROLLED & UNCONTROLLED RECEPTACLES (OR UNSWITCHED HOT TO NEXT PLUG LOAD CONTROLLER)
TYPICAL HALF-SWITCHED RECEPTACLE WITH (1) UNSWITCHED HOT & (1) SWITCHED HOT (VIA PLUG LOAD CONTROLLER) + NEUTRAL & GROUND. ALL HOTS ON SAME CIRCUIT
UNSWITCHED HOT RECEPTACLE CIRCUIT TO PLUG LOAD CONTROLLER - SEE FLOOR PLANS
UNSWITCHED LIGHTING CIRCUIT - SEE FLOOR PLANS
ROOM CONTROLLER
120V PLUGLOAD CIRCUIT, RUN HOME TO PANEL
TYPICAL OCCUPANCY SENSOR
TYPICAL LUMINAIRE
TYPICAL DAYLIGHT SENSOR. COORDINATE LOCATION PRIOR TO ROUGH-IN (WHERE OCCURS)

NOTE:
SEE SPECIFIC ROOM CONTROLLER WIRING DIAGRAMS FOR EACH APPLICATION.

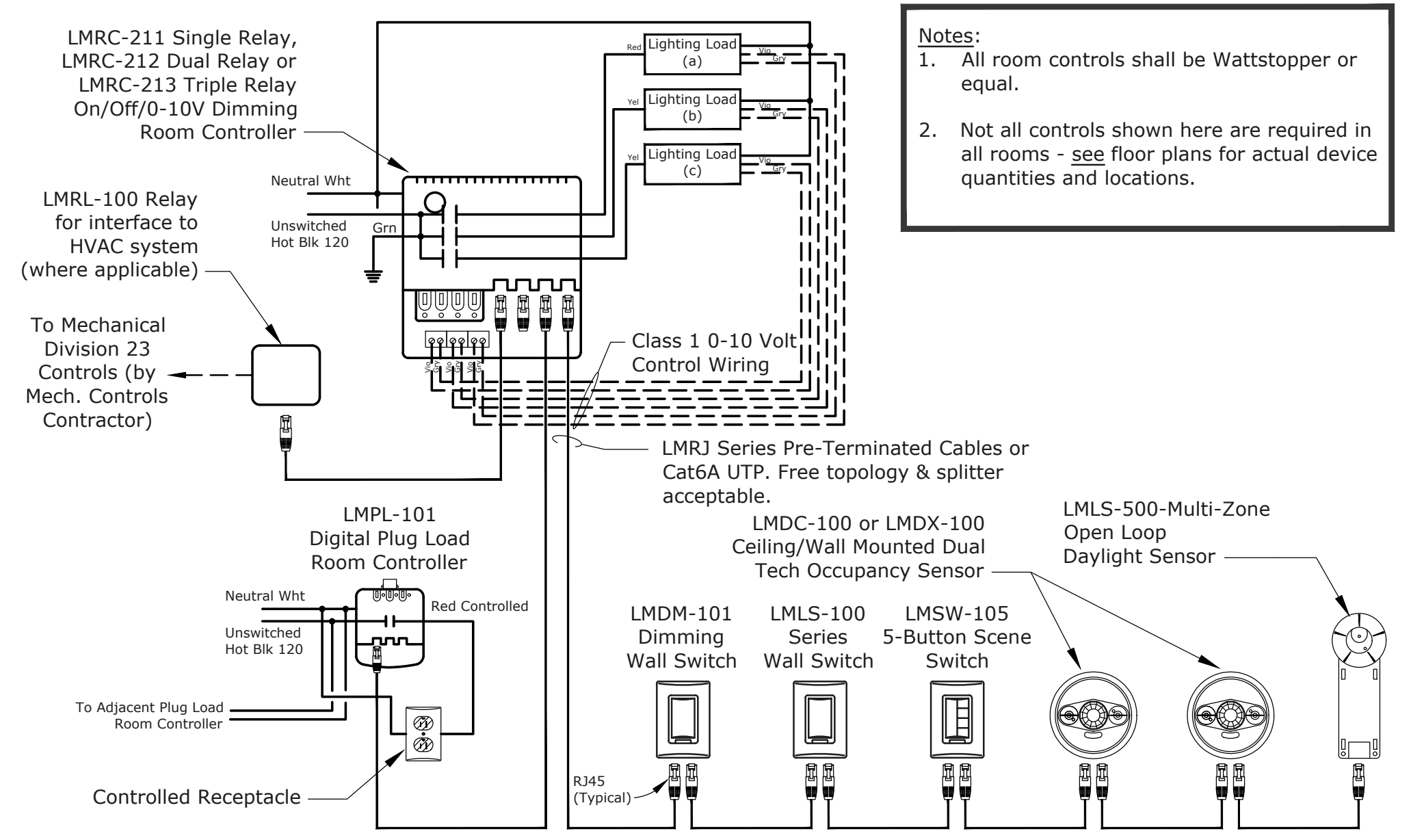
TYPICAL ROOM CONTROL DIAGRAM

1
E-5.1

SCALE: NONE
FILE: L:\DETAILS\LIGHT\LTG CONTROL WATTSTOPPER DLM\LLCW007

NOTE:
One, two or three zone 0-10v dimmed application with wall or ceiling mounted occupancy sensor(s) for shut off and manual dimming. Lights shall be turned on manually, U.O.N. and can be dimmed or switched manually from the device on the wall. Lights will be turned off automatically by the occupancy sensor. Time-out of sensor to be set at 20 minutes. In Corridors, stairs and restrooms, occupancy sensors shall be programmed for auto on/auto off.

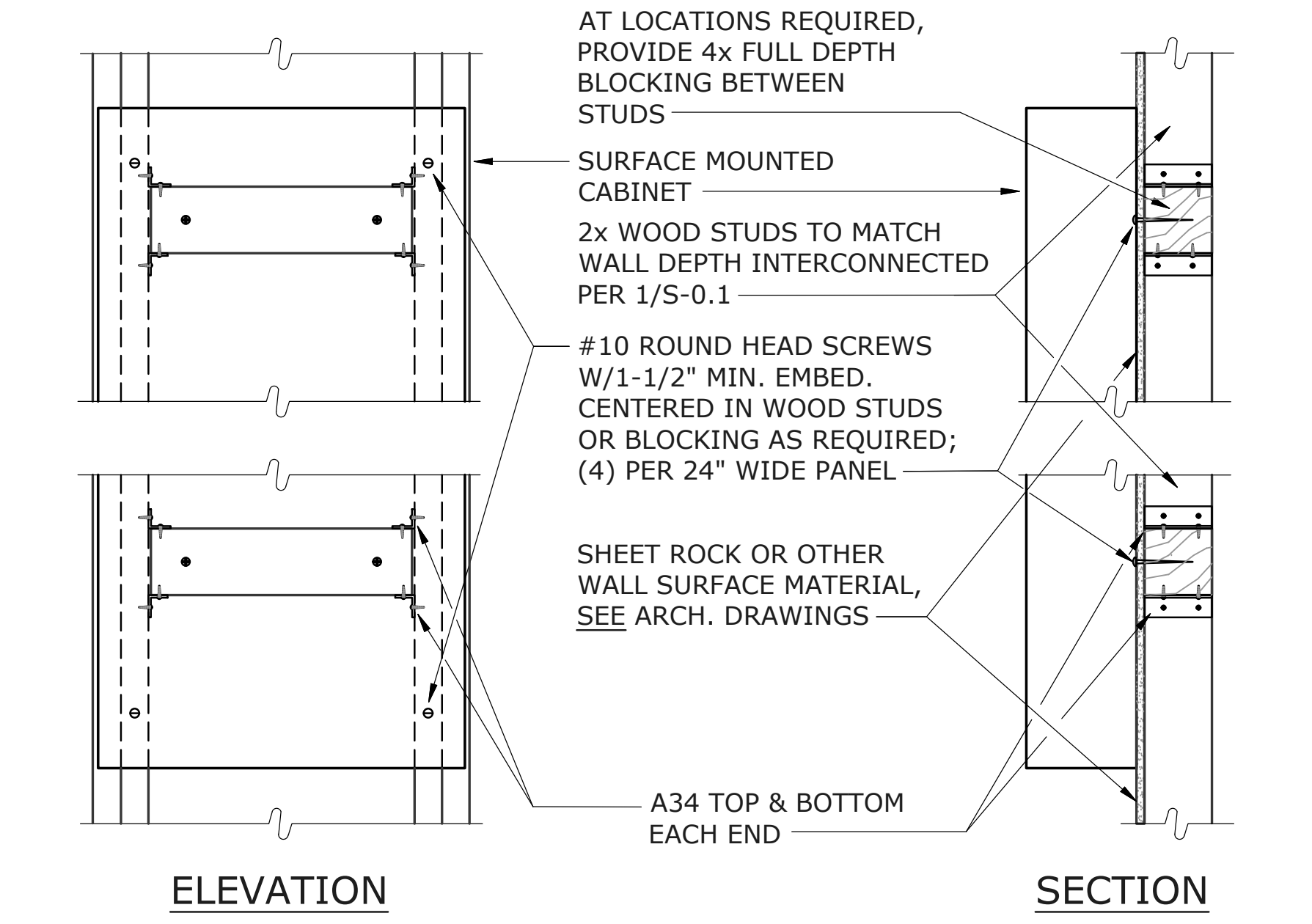
Notes:
1. All room controls shall be Wattstopper or equal.
2. Not all controls shown here are required in all rooms - see floor plans for actual device quantities and locations.


LMRC-211 Single Relay, LMRC-212 Dual Relay or LMRC-213 Triple Relay On/Off/0-10V Dimming Room Controller
LMRL-100 Relay for interface to HVAC system (where applicable)
To Mechanical Division 23 Controls (by Mech. Controls Contractor)
Neutral Wht
Unswitched Hot Blk 120
Grn
Red
Yel
Yel
Lighting Load (a)
Lighting Load (b)
Lighting Load (c)
Vio
Gry
Class 1 0-10 Volt Control Wiring
LMRJ Series Pre-Terminated Cables or Cat6A UTP. Free topology & splitter acceptable.
LMPL-101 Digital Plug Load Room Controller
Neutral Wht
Unswitched Hot Blk 120
Red Controlled
To Adjacent Plug Load Room Controller
Controlled Receptacle
RJ45 (Typical)
LMDM-101 Dimming Wall Switch
LMLS-100 Series Wall Switch
LMSW-105 5-Button Scene Switch
LMDC-100 or LMDX-100 Ceiling/Wall Mounted Dual Tech Occupancy Sensor
LMLS-500-Multi-Zone Open Loop Daylight Sensor

ONE, TWO OR THREE ZONE ROOM & PLUG CONTROLLER

2
E-5.1

SCALE: NONE WITH ISOLATED RELAY FOR HVAC INTERFACE
FILE: L:\DETAILS\LIGHT\LTG CONTROL WATTSTOPPER DLM\LLCW011


AT LOCATIONS REQUIRED, PROVIDE 4x FULL DEPTH BLOCKING BETWEEN STUDS
SURFACE MOUNTED CABINET
2x WOOD STUDS TO MATCH WALL DEPTH INTERCONNECTED PER 1/S-0.1
#10 ROUND HEAD SCREWS W/1-1/2" MIN. EMBED. CENTERED IN WOOD STUDS OR BLOCKING AS REQUIRED; (4) PER 24" WIDE PANEL
SHEET ROCK OR OTHER WALL SURFACE MATERIAL, SEE ARCH. DRAWINGS
A34 TOP & BOTTOM EACH END
ELEVATION
SECTION

NOTE:
MAXIMUM CABINET WEIGHT: 100 POUNDS.

MISCELLANEOUS SURFACE MOUNTED EQUIPMENT

3
E-5.1

SCALE: NONE
FILE: L:\DETAILS\POWER\PANEL\PPANE008B

(E) PANEL LG-A

VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 42P

MAIN BRKR: MLO
FEEDER: SEE SINGLE LINE
CONDUIT: SEE SINGLE LINE
MOUNTED: FLUSH
AIC RATING:

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
LIGHTS, LOCKER ROOM	L	0.80			20/1	1	2	20/1					SPARE
LIGHTS, LOCKER ROOM	L		0.80		20/1	3	4	20/1					SPARE
SPARE					20/1	5	6	20/1					SPARE
LIGHTS, STORAGE	L	0.18			20/1	7	8	20/1					EXISTING LOAD
LIGHTS, GIRLS SHOWER, GIRLS TEAM	L		0.38		20/1	9	10	20/1					EXISTING LOAD
EXISTING LOAD					20/1	11	12	20/1					EXISTING LOAD
EXISTING LOAD					20/1	13	14	20/1					EXISTING LOAD
EXISTING LOAD					20/1	15	16	20/1					EXISTING LOAD
EXISTING LOAD					20/1	17	18	20/1					EXISTING LOAD
EXISTING LOAD					20/1	19	20	20/1					EXISTING LOAD
EXISTING LOAD					20/1	21	22	20/1					EXISTING LOAD
EXISTING LOAD					20/1	23	24	20/1					EXISTING LOAD
EXISTING LOAD					20/1	25	26	20/1					EXISTING LOAD
EXISTING LOAD					20/1	27	28	20/1					EXISTING LOAD
EXISTING LOAD					20/1	29	30	20/1					EXISTING LOAD
EXISTING LOAD					20/1	31	32	20/1					EXISTING LOAD
EXISTING LOAD					20/1	33	34	20/1					EXISTING LOAD
EXISTING LOAD					20/1	35	36	20/1					EXISTING LOAD
EXISTING LOAD					20/1	37	38	20/1					EXISTING LOAD
EXISTING LOAD					20/1	39	40	20/1					EXISTING LOAD
EXISTING LOAD					20/1	41	42	20/1					EXISTING LOAD
		0.98	1.18	0.00					0.00	0.00	0.00		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	0.00	100%	0.00
TYPE "L": LIGHTING / CONTINUOUS LOADS	2.16	125%	2.70
TYPE "R": RECEPTACLES (FIRST 10KVA)	0.00	100%	0.00
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	0.00	100%	0.00
TOTALS:	2.16		2.70

PHASE A: 0.98 KVA
PHASE B: 1.18 KVA
PHASE C: 0.00 KVA
9.83 MAX AMPS / PHASE

(E) PANEL LG-B

VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 42P

MAIN BRKR: MLO
FEEDER: SEE SINGLE LINE
CONDUIT: SEE SINGLE LINE
MOUNTED: FLUSH
AIC RATING:

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
LIGHTS, LOCKER ROOM	L	0.98			20/1	1	2	20/1					SPARE
LIGHTS, LOCKER ROOM	L		0.80		20/1	3	4	20/1					SPARE
SPARE					20/1	5	6	20/1					SPARE
LIGHTS, STORAGE	L	0.40			20/1	7	8	20/1	0.05			L	LIGHTS, TOWEL ROOM
SPARE					20/1	9	10	20/1					EXISTING LOAD
EXISTING LOAD					20/1	11	12	20/1					EXISTING LOAD
EXISTING LOAD					20/1	13	14	20/1					EXISTING LOAD
EXISTING LOAD					20/1	15	16	20/1					EXISTING LOAD
EXISTING LOAD					20/1	17	18	20/1					EXISTING LOAD
EXISTING LOAD					20/1	19	20	20/1					EXISTING LOAD
EXISTING LOAD					20/1	21	22	20/1					EXISTING LOAD
EXISTING LOAD					20/1	23	24	20/1					EXISTING LOAD
EXISTING LOAD					20/1	25	26	20/1					EXISTING LOAD
EXISTING LOAD					20/1	27	28	20/1					EXISTING LOAD
EXISTING LOAD					20/1	29	30	20/1					EXISTING LOAD
EXISTING LOAD					20/1	31	32	20/1					EXISTING LOAD
EXISTING LOAD					20/1	33	34	20/1					EXISTING LOAD
EXISTING LOAD					20/1	35	36	20/1					EXISTING LOAD
EXISTING LOAD					20/1	37	38	20/1					EXISTING LOAD
EXISTING LOAD					20/1	39	40	20/1					EXISTING LOAD
EXISTING LOAD					20/1	41	42	20/1					EXISTING LOAD
		1.38	0.80	0.00					0.05	0.00	0.00		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	0.00	100%	0.00
TYPE "L": LIGHTING / CONTINUOUS LOADS	2.23	125%	2.79
TYPE "R": RECEPTACLES (FIRST 10KVA)	0.00	100%	0.00
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	0.00	100%	0.00
TOTALS:	2.23		2.79

PHASE A: 1.43 KVA
PHASE B: 0.80 KVA
PHASE C: 0.00 KVA
11.92 MAX AMPS / PHASE

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SAN RAFAEL, CALIFORNIA 94903
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www.ommconsulting.com

REGISTERED PROFESSIONAL ENGINEER
PIETER J. COLENBRANDER
No.E14738
Exp. 6/25
ELECTRICAL
STATE OF CALIFORNIA

P. Colenbrander

TENNYSON
HIGH SCHOOL

BUILDING G
MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

REVISIONS

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	LN/TV/JW
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET
APRIL 15, 2026

SHEET TITLE

LIGHTING
CONTROLS

SHEET NUMBER

E-5.1

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Tennyson HS Bldg G Modernization	**Report Page:** **(Page 1 of 8)**
Project Address: 27035 Whitman St	**Date Prepared:** 10/23/2024

A. GENERAL INFORMATION

01	Project Location (city)	Hayward	04	Total Conditioned Floor Area (ft^2)	13,809
02	Climate Zone	3	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	13809	Area Category Method	0
Total Area of Work (ft^2)	13809		0	

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Tennyson HS Bldg G Modernization	**Report Page:** **(Page 2 of 8)**
	Date Prepared: 10/23/2024

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	**Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)**							**Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)**				**Compliance Results**
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned		6,682.3	0		=	6,682	≥	5,046	0	=	5046	COMPLIES
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Tennyson HS Bldg G Modernization	**Report Page:** **(Page 3 of 8)**
	Date Prepared: 10/23/2024

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
AB1	AB1-STRIP 4	No	NA	41	Mfr. Spec	12	No	492	☐	☐
AB2	AB2-STRIP 2	No	NA	22	Mfr. Spec	2	No	44	☐	☐
AE1	AE1-SURFACE DOWN	No	NA	40	Mfr. Spec	61	No	2,440	☐	☐
AE1E	AE1E-SURFACE DOWN	No	NA	40	Mfr. Spec	38	No	1,520	☐	☐
AE2	AE2-SURFACE DOWN	No	NA	30	Mfr. Spec	6	No	180	☐	☐
AE2E	AE2E-SURFACE DOWN	No	NA	30	Mfr. Spec	8	No	240	☐	☐
AE3	AE3-SURFACE DOWN	No	NA	10	Mfr. Spec	13	No	130	☐	☐
Total Designed Watts: CONDITIONED SPACES								5,046		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Tennyson HS Bldg G Modernization	**Report Page:** **(Page 4 of 8)**
	Date Prepared: 10/23/2024

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Locker Rooms	Locker/Dressing Room	Readily Accessible	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	Included	Included	No	☐	☐
Restrooms	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Corridor	Corridor	Readily Accessible	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	Included	Included	No	☐	☐
Storage	All Other Space Types	Readily Accessible	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Team Rooms	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Tennyson HS Bldg G Modernization	**Report Page:** **(Page 5 of 8)**
	Date Prepared: 10/23/2024

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Locker Rooms	Locker/Dressing Room	0.45	8,858	3,986.1	No	No
Restrooms	Restroom	0.65	765	497.2	No	No
Corridor	Corridor	0.4	1,031	412.4	No	No
Storage	All Other Space Types	0.4	1,656	662.4	No	No
Team Rooms/Dance	Convention, Conference, Multipurpose and Meeting Center	0.75	1,499	1,124.2	No	No
		TOTALS:	13,809	6,682.3	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Tennyson HS Bldg G Modernization	**Report Page:** **(Page 6 of 8)**
	Date Prepared: 10/23/2024

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Tennyson HS Bldg G Modernization	**Report Page:** **(Page 7 of 8)**
	Date Prepared: 10/23/2024

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch; Locker Rooms; Restrooms; Corridor; Storage; Team Rooms;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Locker Rooms; Corridor; Team Rooms;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: Tennyson HS Bldg G Modernization	**Report Page:** **(Page 8 of 8)**
Project Address: 27035 Whitman St	**Date Prepared:** 10/23/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Pieter Colenbrander	Documentation Author Signature: P. Colenbrander
Company: O'Mahony & Myer	Signature Date: 2024-10-23
Address: 4340 Redwood Highway Suite 245	CEA/ HERS Certification Identification (if applicable): E14738
City/State/Zip: San Rafael CA 94903	Phone: 415 492-0420

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: Pieter Colenbrander	Responsible Designer Signature: P. Colenbrander
Company: O'Mahony & Myer	Date Signed: 2024-10-23
Address: 4340 Redwood Hwy Ste 245	License: E14738
City/State/Zip: San Rafael CA 94903	Phone: 415 492-0420

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No.E14738
Exp. 6/25

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

REVISIONS

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
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DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET

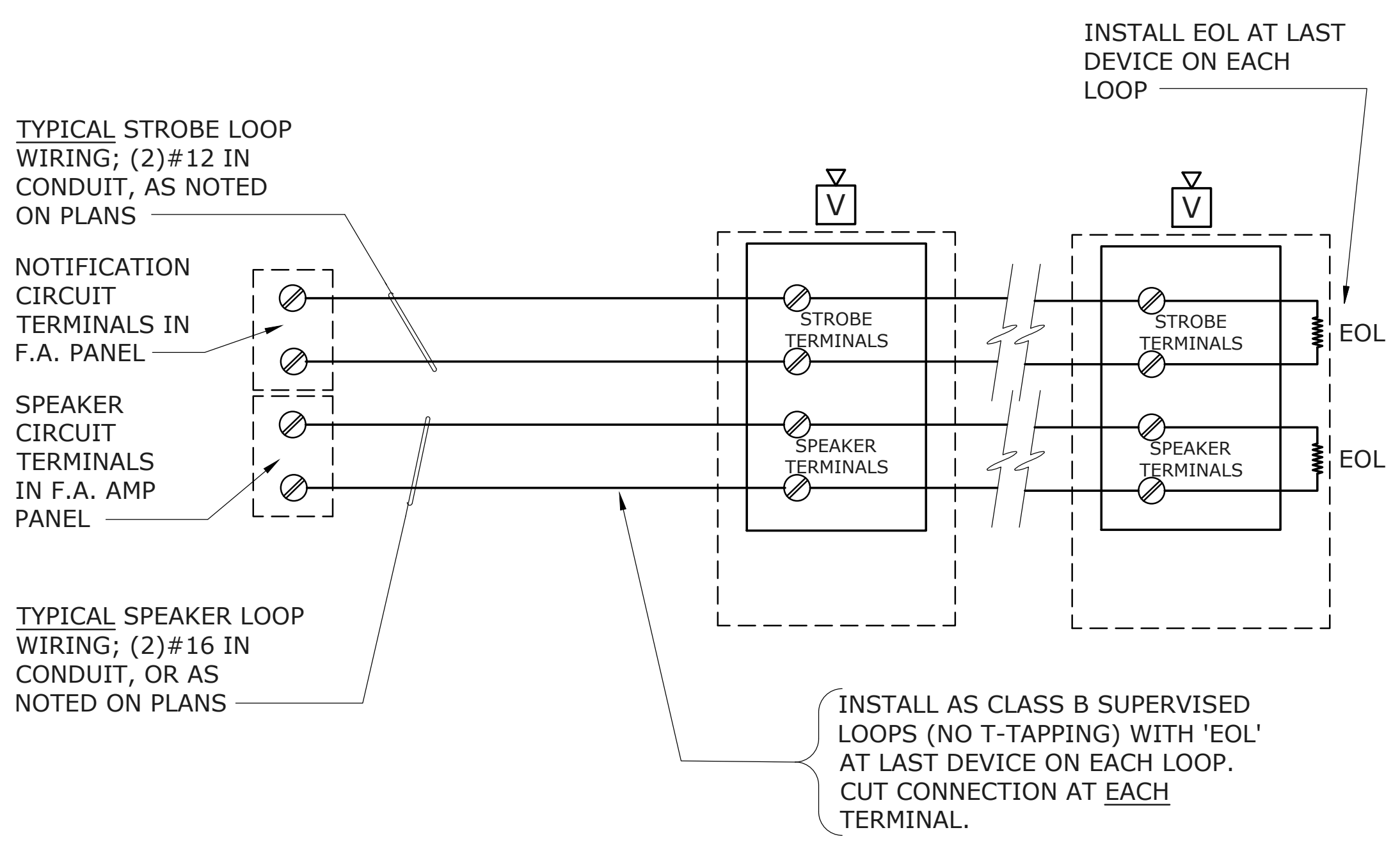
APRIL 15, 2026

SHEET TITLE

TITLE 24 DOCUMENTATION

SHEET NUMBER

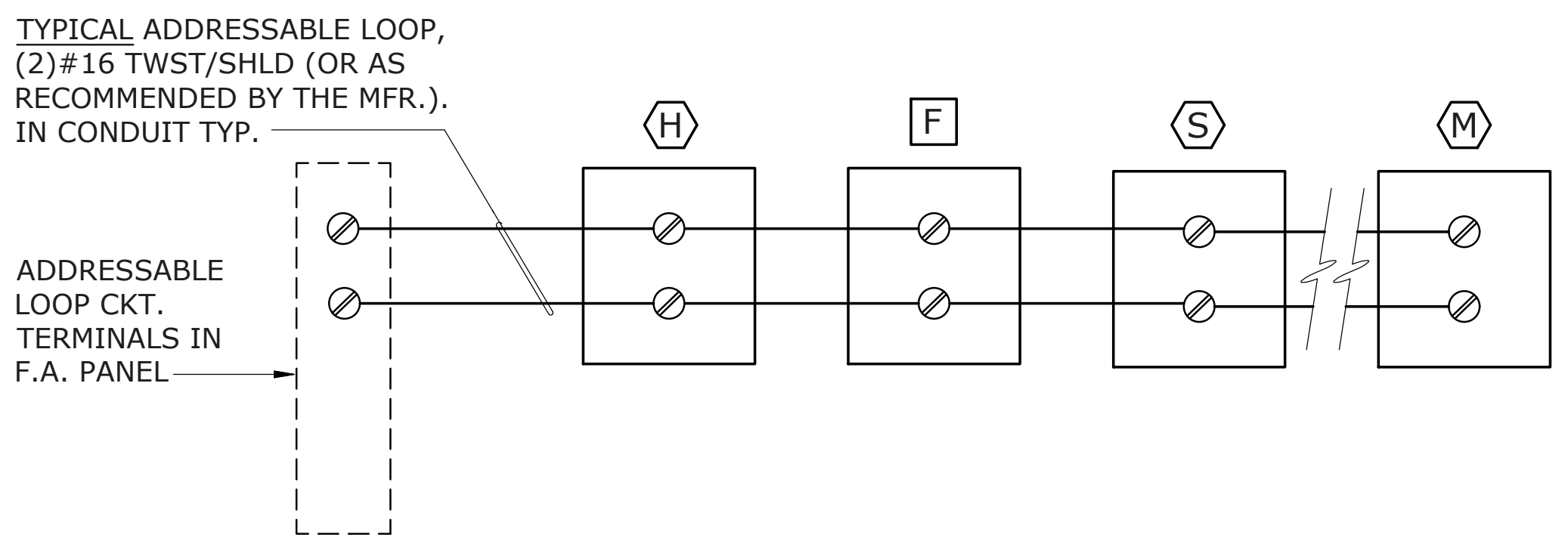
E-8.1


INSTALL EOL AT LAST DEVICE ON EACH LOOP
TYPICAL STROBE LOOP WIRING; (2)#12 IN CONDUIT, AS NOTED ON PLANS
NOTIFICATION CIRCUIT TERMINALS IN F.A. PANEL
SPEAKER CIRCUIT TERMINALS IN F.A. AMP PANEL
V
V
STROBE TERMINALS
SPEAKER TERMINALS
STROBE TERMINALS
SPEAKER TERMINALS
EOL
EOL
TYPICAL SPEAKER LOOP WIRING; (2)#16 IN CONDUIT, OR AS NOTED ON PLANS
INSTALL AS CLASS B SUPERVISED LOOPS (NO T-TAPPING) WITH 'EOL' AT LAST DEVICE ON EACH LOOP. CUT CONNECTION AT EACH TERMINAL.

TYPICAL NOTIFICATION / SPEAKER CIRCUIT WIRING

SCALE: NONE
FILE: L:\DETAILS\POWER\FIREALRM\PFIRE012A

1
FE-0.1


TYPICAL ADDRESSABLE LOOP, (2)#16 TWST/SHLD (OR AS RECOMMENDED BY THE MFR.). IN CONDUIT TYP.
ADDRESSABLE LOOP CKT. TERMINALS IN F.A. PANEL
H
F
S
M

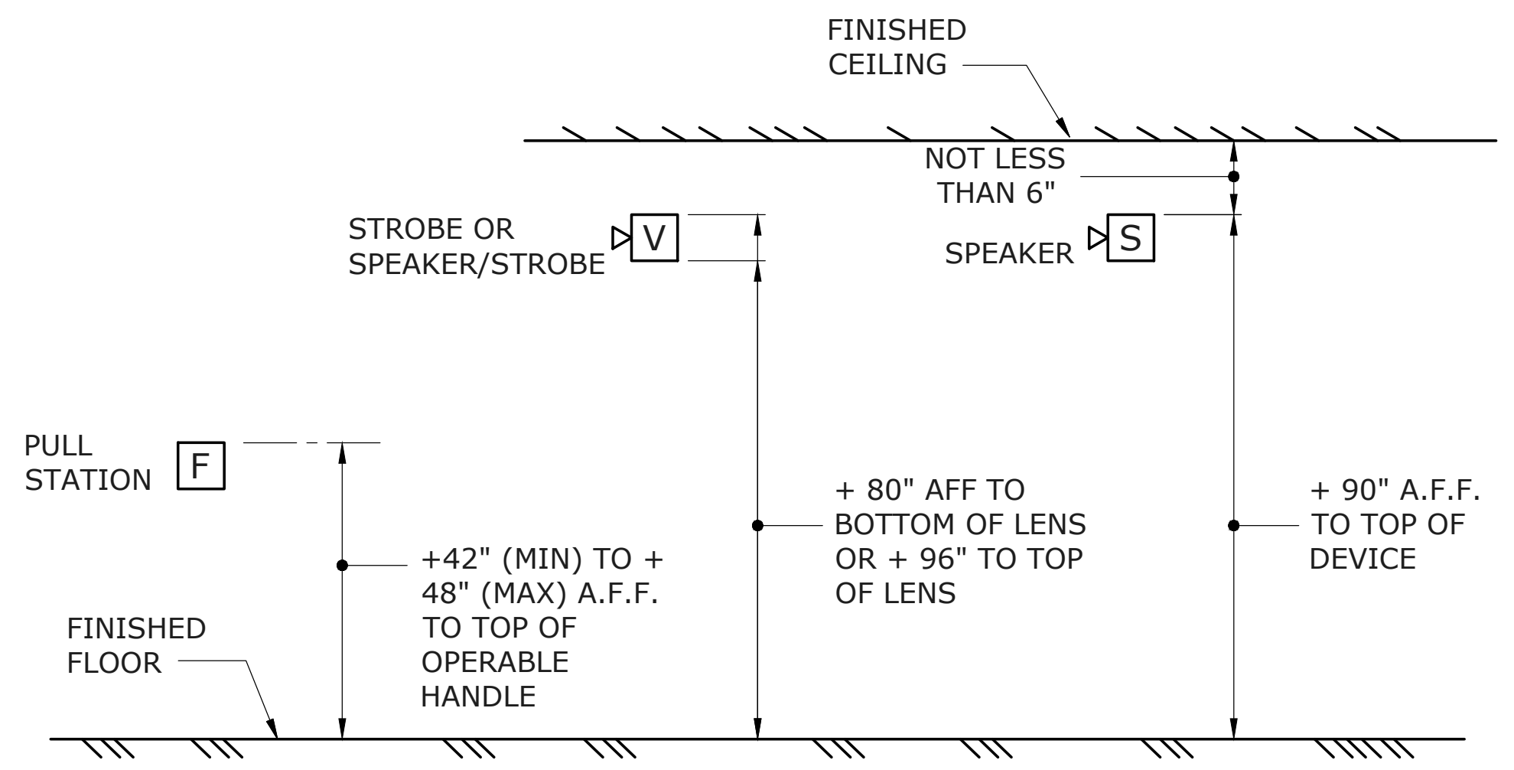
NOTE:

1. T-TAPPING ALLOWED ON ADDRESSABLE LOOPS. NO `EOL' DEVICES REQUIRED. MAXIMUM TOTAL LENGTH OF 3,000 FEET.
2. PROPERLY TERMINATE SHIELDS AND DRAINS AS PER SYSTEM SUPPLIERS RECOMMENDED INSTRUCTIONS.

TYPICAL ADDRESSABLE INITIATION LOOP WIRING

SCALE: NONE
FILE: L:\DETAILS\POWER\FIREALRM\PFIRE013

2
FE-0.1


FINISHED CEILING
NOT LESS THAN 6"
STROBE OR SPEAKER/STROBE
V
SPEAKER
S
PULL STATION
F
+42" (MIN) TO + 48" (MAX) A.F.F. TO TOP OF OPERABLE HANDLE
+ 80" AFF TO BOTTOM OF LENS OR + 96" TO TOP OF LENS
+ 90" A.F.F. TO TOP OF DEVICE
FINISHED FLOOR

FIRE ALARM DEVICE MOUNTING HEIGHT DETAIL

SCALE: NOT TO SCALE
FILE: L:\DETAILS\POWER\FIREALRM\PFIRE002

3
FE-0.1

GENERAL FIRE ALARM NOTES

1. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE. DSA/ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF (48) HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
2. FIRE ALARM CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2. MONITORING SHALL BE TESTED AND VERIFIED AS SENDING THE CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT AND/OR PROVISIONS
3. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS.
4. FIRE ALARM DEVICE MOUNTING HEIGHTS:

   PULL STATION: 42" (MIN) - 48" (MAX) TO TOP OF OPERATOR ABOVE FINISHED FLOOR.

   SPEAKER: 90" MIN. TO TOP OF DEVICE ABOVE FINISHED FLOOR, OR 100" MAX TO TOP OF DEVICE, BUT NOT LESS THAN 6" FROM CEILING.

   WALL MOUNTED STROBE OR SPEAKER/STROBE: BETWEEN 80" TO BOTTOM OF DEVICE LENS TO +96" TO TOP OF DEVICE LENS ABOVE FINISH FLOOR, BUT NOT LESS THAN 6" FROM CEILING.
5. AUDIBLE FIRE ALARM SYSTEM LEVEL SHALL BE AT LEAST 15dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS, OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED AT 5 FEET ABOVE THE FLOOR. AUDIBLE SIGNALS SHALL NOT BE LESS THAN 75dBA AT 10 FEET, OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE.
6. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND PER NFPA 72.
7. APPLICABLE CODES:
   a. CBC 2022; CEC 2022; CMC 2022; CFC 2022.
   b. STATE FIRE MARSHAL TITLE 19, PUBLIC SAFETY.
   c. NFPA 72, 2022 EDITION W/CA AMENDMENTS, FIRE ALARM CODE.
8. STROBES SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND, AND NOT LESS THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55 FEET OF EACH OTHER SHALL BE SYNCHRONIZED.
9. FIRE ALARM CONTRACTOR SHALL PROVIDE A COPY OF NFPA 72 SYSTEM RECORD OF COMPLETION, SYSTEM RECORD OF INSPECTION AND TESTING, AND THE "EMERGENCY COMMUNICATIONS SUPPLEMENTARY RECORD OF COMPLETION", TO THE INSPECTOR OF RECORD IOR/DSA, SCHOOL DISTRICT, ARCHITECT AND LOCAL FIRE AUTHORITY.
10. POWER SERVICE TO THE FACP, REMOTE POWER SUPPLIES, AND CENTRAL STATION AUTO DIALER SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
11. INSTALL ALL WIRING IN CONDUIT, MIN. 3/4" CONDUIT. ALL FIRE ALARM SYSTEM WIRING SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM RATED) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
12. CONDUIT AND WIRING SHALL BE PER MANUFACTURERS REQUIREMENTS.
13. ALL FIRE ALARM COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICES/EQPT. SHALL EXCEED 20LBS. WITHOUT SPECIAL MOUNTING DETAILS.
14. INSTALLATION OF SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE SET OF CONSTRUCTION DOCUMENTS (WITH DEVICE TYPES AND LISTINGS) HAVE BEEN REVIEWED AND APPROVED BY DSA.
15. A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES AND SHALL BE USED FOR INSTALLATION.
16. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND ARCHITECT/ENGINEER OF RECORD.
17. THE CONTRACTOR SHALL INSTALL AND ADJUST ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
18. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1 FOOT FROM FIRE SPRINKLER HEADS OR 3 FEET FROM ANY SUPPLY DIFFUSER. IN AREAS OF CONSTRUCTION OR POSSIBLE DAMAGE /CONTAMINATION, INSTALLED DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
19. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE ALARM DEVICE. DO NOT SPLICE WIRE. THERE MUST BE AT LEAST 6" OF WIRE LEAD FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC FOR PROPER VOLUME WITH INSTALLED WIRING AND DEVICES.
20. SUPERVISING STATION: 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 80. THE SUPERVISION STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
21. A DOCUMENTATION CABINET SHALL BE INSTALLED ADJACENT TO THE FACP IN THE MAIN ELECTRICAL ROOM (NFPA 72, 7.7.2.1). SPACE AGE ELECTRONICS INC, ACERBOX FAD SERIES (#SSU00685 OR EQUAL).
22. ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72, 7.7.2.3): PROVIDE NAMEPLATE "FIRE ALARM SYSTEM RECORD DOCUMENTS" (NFPA 72, 7.7.2.5).
23. FIRE ALARM MANUAL PULLSTATIONS SHALL MEET THE CALIFORNIA ACCESSIBILITY REQUIREMENTS OUTLINED IN THE CBC ("CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE TO ACTIVATE THE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE". REFER TO DSA ACCESSIBILITY STAFF FOR QUESTIONS OR CLARIFICATION.)
24. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
25. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.

SEQUENCE OF OPERATION

1. MANUAL PULL STATION - WHEN A PULL STATION IS PULLED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS.
2. SMOKE AND HEAT DETECTORS - WHEN A SMOKE OR HEAT DETECTOR IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS.
3. ANY BUILDING POWER FAILURE- IF THE BUILDING LOSES POWER, THE FAILURE SHALL SHOW UP AS A TROUBLE SIGNAL ON THE FACP. THE SYSTEM SHALL STAY ACTIVE ON BATTERY BACK-UP POWER IN ACCORDANCE WITH THE STATE FIRE CODE.
4. SYSTEM SHALL INDICATE TROUBLE ALARMS FOR ALL SYSTEM FAULTS (i.e. GROUND FAULTS, SHORTS, OPEN CIRCUITS, BATTERY DISCONNECT, ETC.).
5. FIRE/SMOKE DAMPERS - WHEN A FIRE/SMOKE DAMPER SMOKE DETECTOR IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE MAIN FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS AND SHALL SHUT DOWN THE ASSOCIATED HVAC UNIT.
6. FIRE SPRINKLER SYSTEM - WHEN A FLOW SWITCH IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE MAIN FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS. WHEN TAMPER SWITCH IS ACTIVATED, IT SHALL ANNUNCIATE A SUPERVISORY ALARM AT THE MAIN FACP.
7. UPON ALARM CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL TO NOTIFY THE FIRE DEPARTMENT AND INITIATE EVACUATION OF STUDENTS AND FACULTY AS PER THE SCHOOL'S EVACUATION PLAN.
8. UPON TROUBLE CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL TO NOTIFY AUTHORIZED TECHNICIAN TO CORRECT THE TROUBLE CONDITION.

FIRE ALARM EQUIPMENT LIST

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER	CSFM LISTING NUMBER
FAVCP	(E) FIRE ALARM CONTROL PANEL FOR REFERENCE ONLY	NOTIFIER NFS2-3030	7165-0028:0224
H	ADDRESSABLE HEAT DETECTOR WITH B300-6 BASE	NOTIFIER FST-951	7270-0028:0502 7300-1653:0109

FIRE ALARM WIRING LEGEND

TAG	DESCRIPTION	CABLING
A	INITIATION CIRCUIT	(2) #16 TWISTED/UNSHIELDED
B	STROBE NOTIFICATION CIRCUIT(S)	(2) #12 THHN/THWN
C	SPEAKER NOTIFICATION CIRCUIT(S)	(2) #16 TWISTED/SHIELDED
D	CONSTANT 24V POWER	(2) #14 THHN/THWN
H	BEAM SMOKE TEST SWITCH CIRCUIT	(3) #14 THHN/THWN

NOTE:
CONTRACTOR SHALL VERIFY EXACT CABLE/WIRE TYPES WITH SYSTEM MANUFACTURER PRIOR TO ROUGH-IN. INSTALL WIRING IN WIREMOLD RACEWAYS (IN FINISH AREAS, I.E. CLASSROOMS, OFFICES, HALLWAYS, ETC.) AND IN 3/4" CONDUIT MIN. (IN UTILITY ROOMS).

FIRE ALARM SYSTEM DESCRIPTION

1. THE EXISTING FIRE ALARM SYSTEM IS AN AUTOMATIC ADDRESSABLE SYSTEM WITH STYLE 4, CLASS B WIRING FOR IDC'S, NAC'S, AND SLC'S WITH EMERGENCY VOICE / ALARM COMMUNICATIONS.
2. CIRCUIT PATHWAY SURVIVABILITY SHALL BE LEVEL 1.
3. THE NAME OF THE SPECIFIC PERSON RESPONSIBLE FOR THE SYSTEM DESIGN IS ALVIN CHU (O'MAHONY & MYER).
4. SYSTEM INSTALLATION SHALL BE BY A LICENSED ELECTRICAL OR FIRE ALARM CONTRACTOR WITH A CALIFORNIA C-10 LICENSE, REGULARLY ENGAGED IN THE INSTALLATION AND COMMISSIONING OF FIRE ALARM SYSTEMS TO NFPA 72 STANDARDS. FIRE ALARM CONTRACTOR SHALL BE FACTORY-AUTHORIZED OF THE SPECIFIED SYSTEM MANUFACTURER. INSTALLING CONTRACTOR'S NAME AND CONTACT INFORMATION SHALL BE LISTED IN THE NFPA CLOSE OUT DOCUMENTATION AT COMPLETION OF PROJECT.

FIRE ALARM SCOPE OF WORK

1. REMOVE ALL EXISTING FIRE ALARM DEVICES PRIOR THE DEMOLITION OF CEILING AND REINSTALL/RECONNECT COMPLETE AFTER THE NEW CEILING IS INSTALLED. PROVIDE NEW OUTLET BOXES. REPROGRAM ALL DEVICES CONNECTED TO THE (E) FAVCP-G UNDER THE RENOVATION AREAS.
2. FINAL SYSTEM REPROGRAMMING SHALL BE DONE BASED ON ACTUAL PHYSICAL ROOM NAMES AND NUMBERS USED AT THE SITE (IF DIFFERENT FROM THE ROOM NAMES OR NUMBERS SHOWN ON THE APPROVED PLANS).
3. TERMINATE EACH NOTIFICATION LOOP TO THE FAEP AS SHOWN ON PLANS AND RISER DIAGRAMS.
4. ALL CO SOUNDER BASE SHALL BE POWERED FROM THE FAEP AS SHOWN ON PLANS.
5. COORDINATE ANY FIRE ALARM SYSTEM OPERATION DISRUPTIONS WITH THE DISTRICT PRIOR TO START OF ANY WORK. GIVE AMPLE TIME OF NOTICE.
6. THE CONTRACTOR SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN LOCAL TESTING AND ACCEPTANCE CRITERIA FOR EMERGENCY RADIO RESPONDER SYSTEMS.

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BUILDING G MODERNIZATION

27035 WHITMAN ST
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HAYWARD UNIFIED
SCHOOL DISTRICT

REVISIONS

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: LN/TV/JW
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

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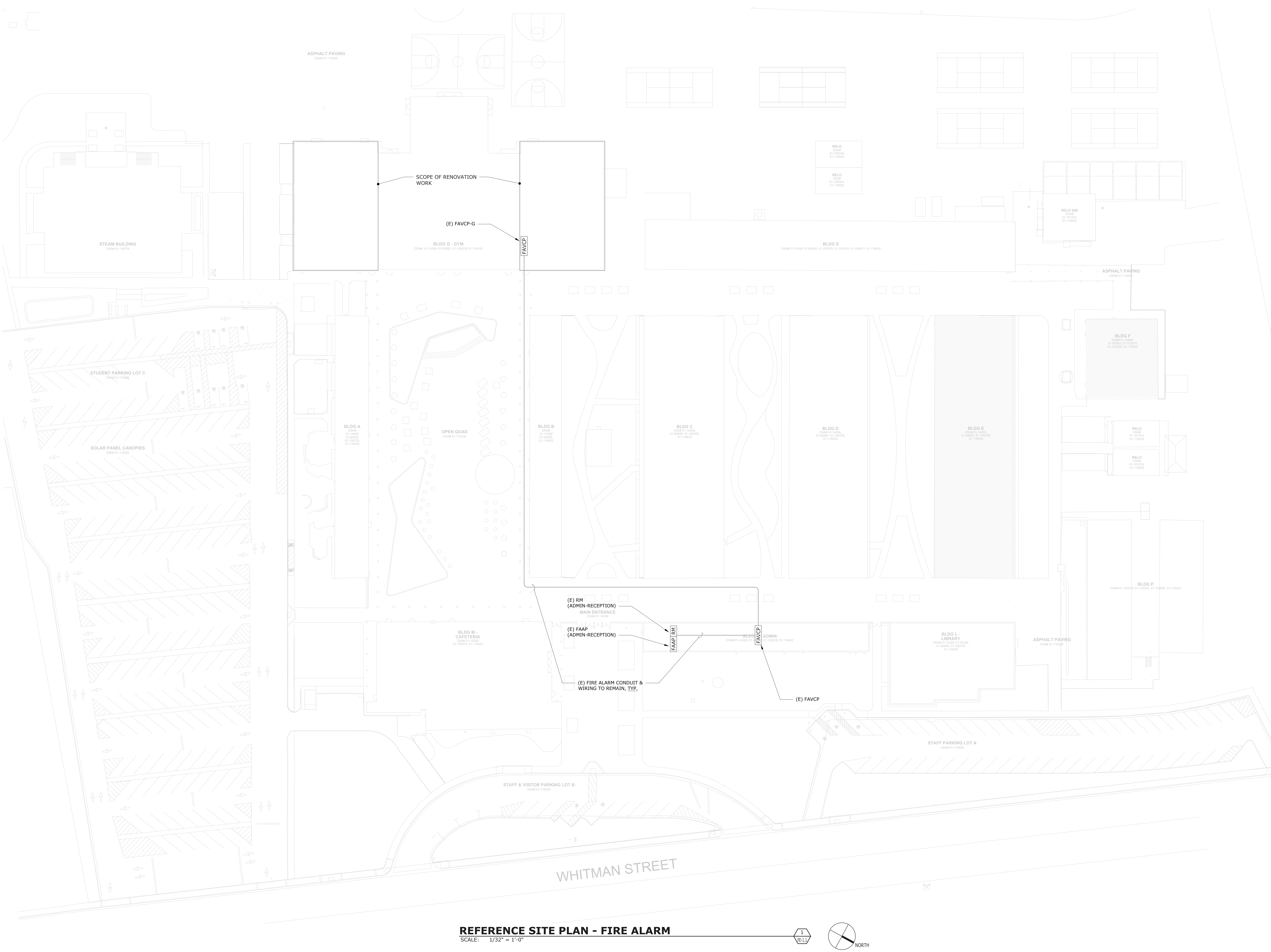
APRIL 15, 2026

SHEET TITLE

FIRE ALARM EQUIPMENT LIST, NOTES & DETAILS

SHEET NUMBER

FE-0.2



REFERENCE SITE PLAN - FIRE ALARM

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

1
FE-1.1

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SCHOOL DISTRICT

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DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
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DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

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APRIL 15, 2026

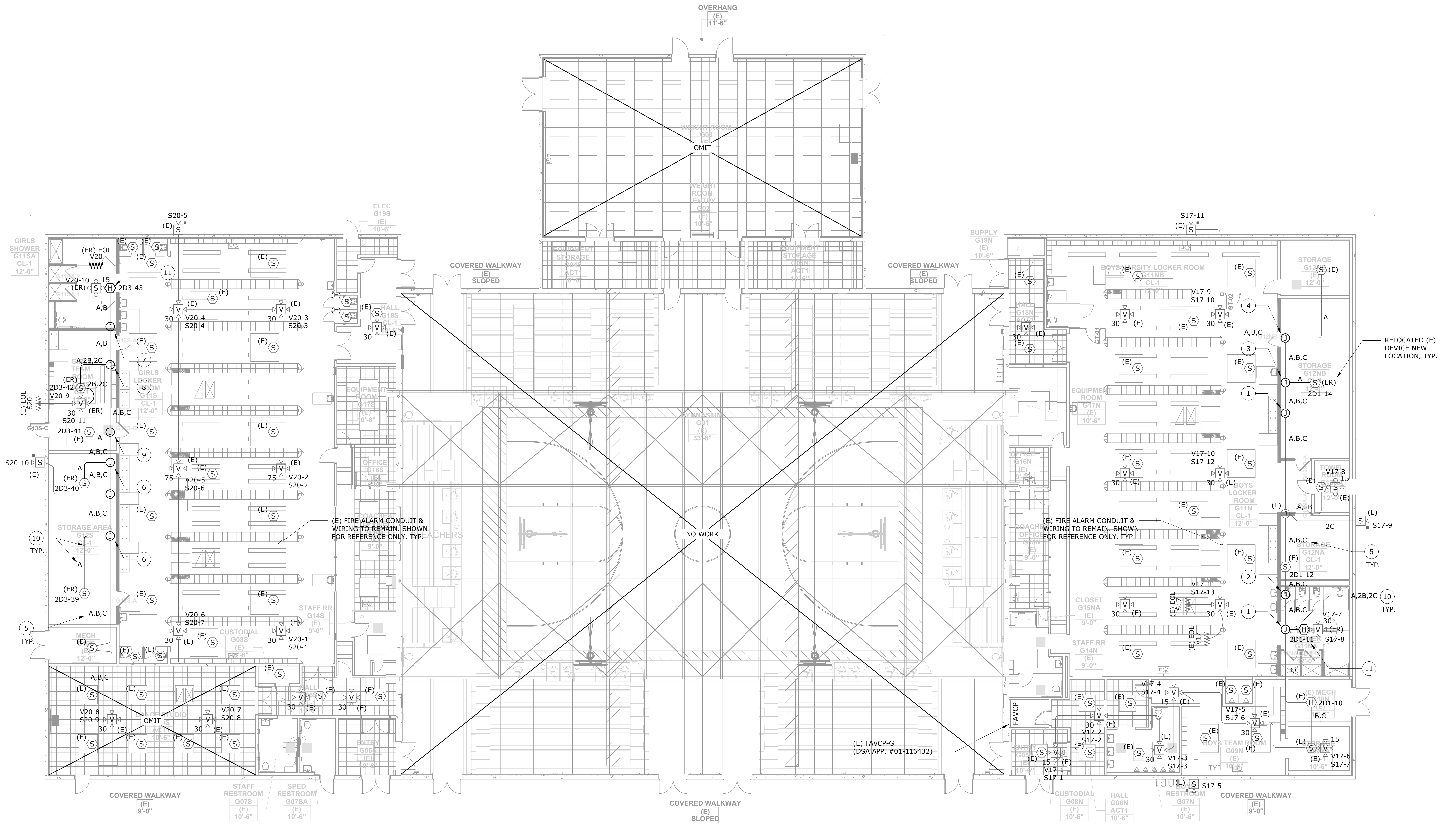
SHEET TITLE

REFERENCE SITE PLAN - FIRE ALARM

SHEET NUMBER

FE-1.1

TENNYSON HIGH SCHOOL MODERNIZATION – 221083-OPSC



BLDG G FLOOR PLAN - FIRE ALARM

SCALE: 3/32" = 1'-0"

1
FE-G3.1

NORTH

NOTES:

1. REMOVE & DISCONNECT ALL EXISTING FIRE ALARM DEVICES (WITH SUBSCRIPT "(E)") PRIOR TO START OF DEMOLITION WORK. STORE IN SAFE AND SECURE AREA. COMPLETELY REINSTALL, RECONNECT AND TEST PRIOR TO PROJECT COMPLETION.
2. ALL EXISTING FIRE ALARM CONDUIT AND WIRING ARE TO REMAIN AS IS, U.O.N.
3. ALL DEVICES & RACEWAY SHOWN DARK ARE NEW.

NUMBERED SHEET NOTES

① REMOVE & DISCONNECT (E) SMOKE DETECTOR. PROVIDE NEW J-BOX COVER.

② RELOCATE (E) SPEAKER/STROBE AND REINSTALL IN BOYS SHOWER G11NA.

③ REMOVE & DISCONNECT (E) SPEAKER/STROBE. PROVIDE NEW J-BOX COVER.

④ RELOCATE (E) SMOKE DETECTOR AND REINSTALL IN STORAGE G12NB.

⑤ REMOVE AND DISCONNECT ALL (E) CABLES IN EXISTING CONDUIT AND PROVIDE NEW. CABLE TYPES AND QUANTITY AS INDICATED. SEE GENERAL FIRE ALARM NOTE 19.

⑥ RELOCATE (E) SMOKE DETECTOR AND REINSTALL IN STORAGE AREA G12S.

⑦ RELOCATE (E) SMOKE DETECTOR AND REINSTALL IN GIRLS TEAM ROOM G13S.

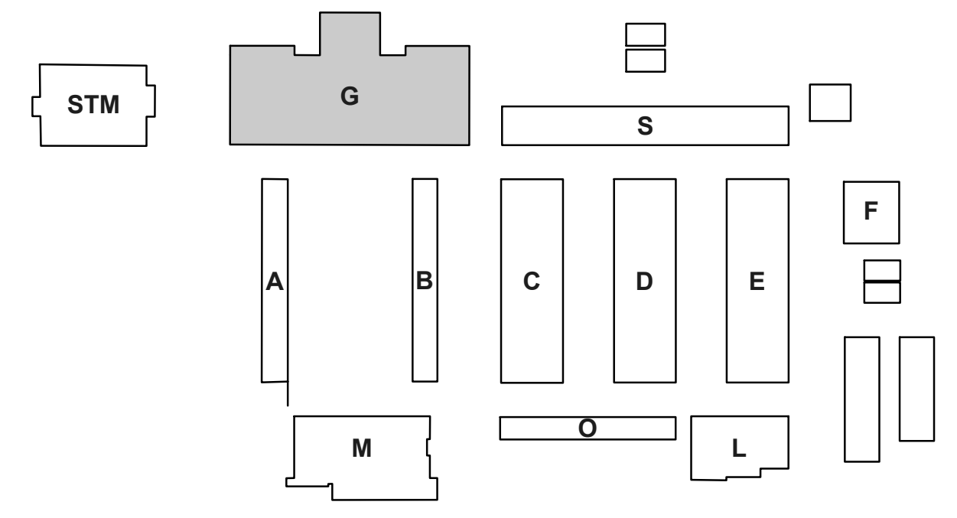
⑧ RELOCATE (E) SPEAKER/STROBE AND REINSTALL IN GIRLS TEAM ROOM G13S.

⑨ RELOCATE (E) STROBE AND REINSTALL IN GIRLS SHOWER ROOM G11SA.

⑩ PROVIDE NEW RACEWAY (SHOWN DARK) AND CABLE(S).

⑪ PROVIDE NEW HEAT DETECTOR.

KEYPLAN



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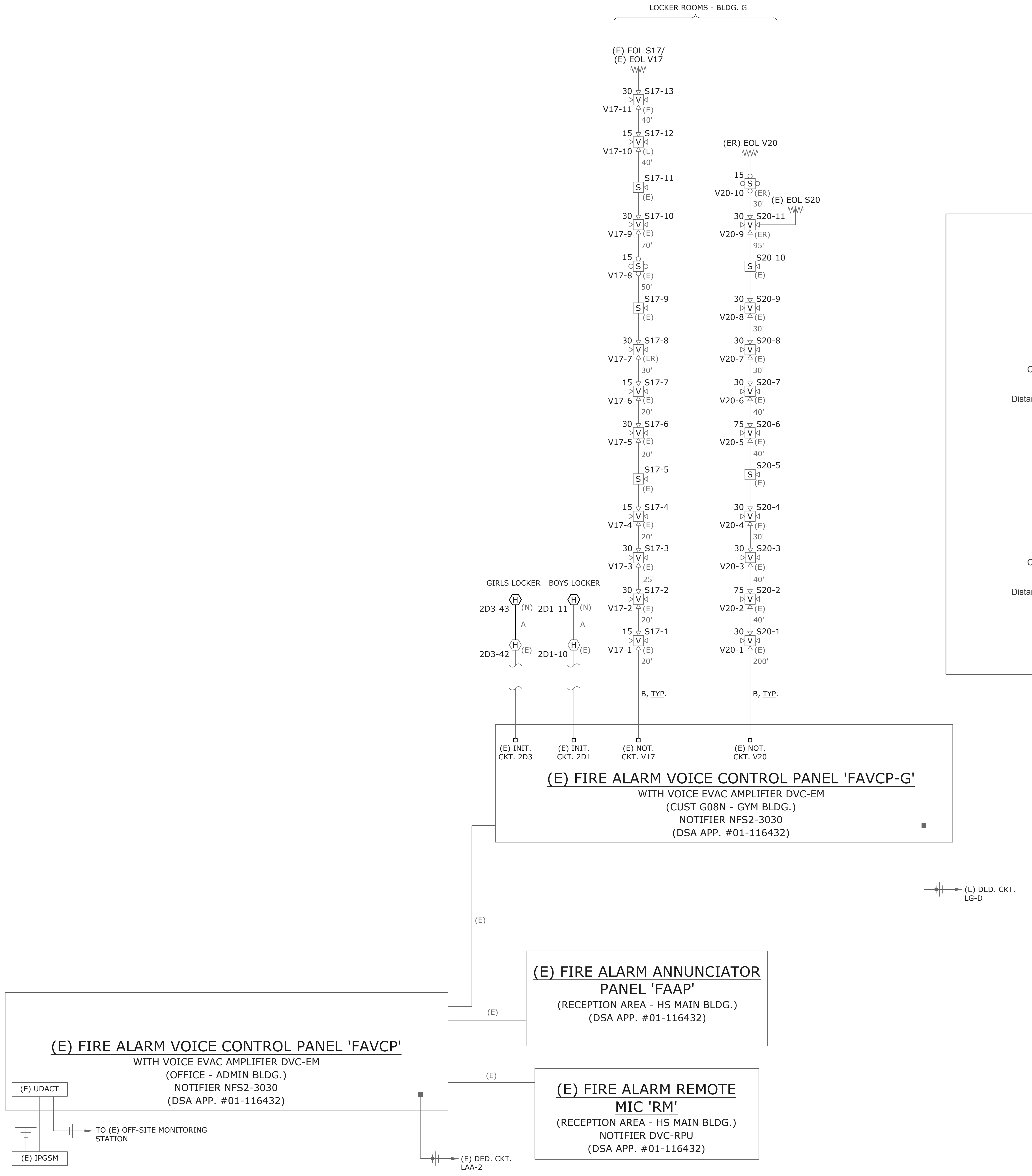
SHEET TITLE

**BLDG G
FLOOR PLAN -
FIRE ALARM**

SHEET NUMBER

FE-G3.1

TENNYSON HIGH SCHOOL MODERNIZATION – 221083-OPSC



BATTERY CALCULATIONS: **(E) FIRE ALARM VOICE CONTROL PANEL 'FACP-G'**

STANDBY MODE

	EA (A)	QTY.	CURRENT	
(E) CONTROL UNITS	1.2200	1	1.220	
TOTAL STANDBY CURRENT =			1.220	A
REQUIRED (24 HOURS) =			29.280	AH

ALARM MODE

	EA (A)	QTY.	CURRENT	
(E) CONTROL UNITS	2.4900	1	2.490	
NOT. CKT V17	0.9170	1	0.917	
NOT. CKT V33	1.0210	1	1.021	
TOTAL ALARM CURRENT =			4.428	A
REQUIRED (15 MIN) =			1.107	AH

TOTAL POWER REQUIRED WITH 120%
BATTERY DERATING FACTOR = 36.464 AH

(E) BATTERIES (2) 12V, 100AH BATTERIES - OK
(EXISTING LOAD INFO ARE FROM DSA APP. #01-116432)

VOLTAGE DROP CALCULATIONS

(E) FIRE ALARM VOICE CONTROL PANEL 'FACP-G'

SIGNAL CIRCUIT: **V17**
TOTAL CKT CURRENT = 0.917 A
MAX VOLT-DROP = **2.91%**
SYSTEM VOLTAGE = 20.4 V

Device Address-->	V17-1	V17-2	V17-3	V17-4	V17-5	V17-6	V17-7	V17-8	V17-9	V17-10	V17-11	
Type of Device -->	15CSPSTR	30CSPSTR	30CSPSTR	15CSPSTR	30CSPSTR	15CSPSTR	30CSPSTR	15CSTR	30CSPSTR	30CSPSTR	30CSPSTR	eol
Current of Device (Amp) -->	0.060	0.096	0.096	0.060	0.096	0.060	0.096	0.060	0.096	0.096	0.096	0.005
Size of Wire (AWG) -->	#12	#12	#12	#12	#12	#12	#12	#12	#12	#12	#12	#12
Distance to each Device (Ft) -->	20	20	25	20	20	20	30	50	70	40	40	5
Current Total (Amp) -->	0.917	0.857	0.761	0.665	0.605	0.509	0.449	0.353	0.293	0.197	0.101	0.005
Device Volt-drop -->	0.35%	0.67%	1.03%	1.28%	1.51%	1.70%	1.96%	2.29%	2.68%	2.83%	2.91%	2.91%
Device Volt -->	20.33	20.26	20.19	20.14	20.09	20.05	20.00	19.93	19.85	19.82	19.81	19.81

SIGNAL CIRCUIT: **V20**
TOTAL CKT CURRENT = 1.021 A
MAX VOLT-DROP = **7.01%**
SYSTEM VOLTAGE = 20.4 V

Device Address-->	V20-1	V20-2	V20-3	V20-4	V20-5	V20-6	V20-7	V20-8	V20-9	V20-10	
Type of Device -->	30CSPSTR	75CSTR	30CSPSTR	30CSPSTR	75CSPSTR	30CSPSTR	30CSPSTR	30CSPSTR	30CSPSTR	15CSPSTR	eol
Current of Device (Amp) -->	0.096	0.142	0.096	0.096	0.142	0.096	0.096	0.096	0.096	0.060	0.005
Size of Wire (AWG) -->	#12	#12	#12	#12	#12	#12	#12	#12	#12	#12	#12
Distance to each Device (Ft) -->	200	40	40	30	40	40	30	30	95	30	5
Current Total (Amp) -->	1.021	0.925	0.783	0.687	0.591	0.449	0.353	0.257	0.161	0.065	0.005
Device Volt-drop -->	3.86%	4.56%	5.16%	5.55%	5.99%	6.33%	6.53%	6.68%	6.97%	7.01%	7.01%
Device Volt -->	19.61	19.47	19.35	19.27	19.18	19.11	19.07	19.04	18.98	18.97	18.97

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P. Colenbrander

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

REVISIONS

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	LN/TV/JW
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

BID SET

APRIL 15, 2026

SHEET TITLE

RISER DIAGRAM & CALCULATIONS - FIRE ALARM

SHEET NUMBER

FE-5.1

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Tennyson High School Modernization Inc 2
27035 Whitman Street
Hayward, CA 94544

Project Designer:

Quattrocchi Kwok Architects
636 Fifth Street
Santa Rosa, CA 95404
(707) 576-0829

Report Prepared by:

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SOLDATA Energy Consulting
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707-545-4440

SOLDATA
Energy Consulting

Job Number:

G0547

Date:

7/15/2022

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-MCH-E**
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.	
Project Name: Tennyson High School Modernization Inc 2	**Report Page:** (Page 1 of 84)
Project Address: 27035 Whitman Street	**Date Prepared:** 7/15/2022

A. GENERAL INFORMATION

01	Project Location (city)	Hayward	04	Total Conditioned Floor Area	46618
02	Climate Zone	3	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☒ Office (B)		☐ Retail (M)	☒ Non-refrigerated Warehouse (S)		
☐ Hotel/ Motel Guest Rooms (R-1)		☒ School (E)	☐ Healthcare Facility (I)		
☐ High-Rise Residential (R-2/R-3)		☐ Relocatable Class Bldg (E)	☒ Other (write in)		See Table J

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☒ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output^{2,3}			Cooling Output^{2,3}		Load Calculations^{3,4}	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available^{1} §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP/FC A1	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	30.17	24.4	22.63	32.74
HP/FC A2	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	45.8	46	17.07	35.12	30.6	57.51	101.86
HP/FC A3	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	44.68	39.3	58.88	84.34
HP/FC A4	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	36.56	32.7	57.62	82.45
HP/FC B1	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	45.8	46	17.07	34.7	30.6	45.79	60.63
HP/FC B2	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	45.8	46	17.07	34.83	30.6	37.37	49.42
HP/FC B3	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	45.8	46	17.07	34.84	30.6	37.35	49.61
HP/FC B4	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	29.25	24.4	35.53	71.96
HP/FC B5	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	29.25	24.4	35.53	71.97
HP/FC B6	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	29.25	24.4	35.55	72
HP/FC C1	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	39.59	32.7	89.78	52.93
HP/FC C13	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	0	0	0	11.16	9.3	5.91	10.83
HP/FC C2	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	39.57	32.7	90.16	54.54
HP/FC C12	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	0	0	0	11.39	9.3	6.03	12.39
HP/FC C3	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	47.75	39.3	100.51	56.47
HP/FC C4	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	29.59	24.4	17.77	37.47
HP/FC C5	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	37.19	32.7	64.73	45.47

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NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
HP/FC C6	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.88	24.4	16.18	17.46
HP/FC C7	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	39.93	32.7	89.08	40.3
HP/FC C8	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	38.61	32.7	78.68	39.76
HP/FC C9	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	45.8	46	17.07	36.67	30.6	77.71	38.31
HP/FC C10	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	45.8	46	17.07	36.65	30.6	74.91	36.12
HP/FC C11	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	47.74	39.3	106.14	52.07
HP/FC D1	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	54.54	60	17.07	35	32.7	26.12	29.45
HP/FC D2	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.98	24.4	14.07	16.81
HP/FC D3	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.99	24.4	14.01	16.71
HP/FC D4	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.98	24.4	14.06	16.8
HP/FC D5	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.98	24.4	14.05	16.78
HP/FC D6	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.98	24.4	14.07	16.81
HP/FC D7	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.79	24.4	16.41	19.61
HP/FC D8	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.78	24.4	16.43	19.64
HP/FC D16 D17	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	26.98	21.6	0	32.95	14.8	9.43	9.65
HP/FC S1 S2	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	91.59	46	34.13	68.03	30.6	53.15	90.41
HP/FC S3	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	58.29	66	17.07	49.86	41.3	103.19	74.9
HP/FC S4	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	58.29	66	17.07	49.89	41.3	102.8	79.05
HP/FC S5	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	45.8	46	17.07	34.05	30.6	24.11	42.2
HP/FC S6	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	45.8	46	17.07	33.94	30.6	24.88	43.54
HP/FC S7	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	42.05	40	17.07	28.53	24.4	33.78	30.97
HP/FC S8	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	0	0	0	11	9.3	2.6	2.16
RP B1 B2	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	18.17	9.08	0	0	0	6.47	5.45
RP C1 C2	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	18.17	9.08	0	0	0	7.92	6.89
RP C3 C4	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	18.17	9.08	0	0	0	7.92	6.87

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Mechanical Systems

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP/FC A1	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC A2	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC A3	<65,000		HSPF	8.2	10.5	SEER	14.0	15.5
HP/FC A4	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC B1	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC B2	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC B3	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC B4	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC B5	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC B6	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC C1	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC C13	<65,000					SEER	14.0	23
HP/FC C2	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC C12	<65,000					SEER	14.0	23

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP/FC C3	<65,000		HSPF	8.2	10.5	SEER	14.0	15.5
HP/FC C4	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC C5	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC C6	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC C7	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC C8	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC C9	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC C10	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC C11	<65,000		HSPF	8.2	10.5	SEER	14.0	15.5
HP/FC D1	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC D2	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC D3	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC D4	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC D5	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC D6	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC D7	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC D8	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC D16 D17	<65,000		HSPF	8.2	12.5	SEER	14.0	20
HP/FC S1 S2	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC S3	<65,000		HSPF	8.2	10.5	SEER	14.0	15.5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK
ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
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55 Harrison Street, Suite 525,
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(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
SIGNED: JUNE 5, 2025

TENNYSON
HIGH SCHOOL

BUILDING G
MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

CD SET

JUNE 5, 2025

SHEET TITLE

TITLE 24 DOCUMENTATION (DSA #01-119941 INC.2)

SHEET NUMBER

T-1.1

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G 6/3/2025 4:11 PM

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC C3	**Economizer:**[1]	NA: Special OA filtration	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	1	NA	NA
EF	Exhaust	1	0	BHP	0.14	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (B)HP:	1.14	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC C4	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC C5	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1520	BHP	0.75	NA	NA
EF	Exhaust	1	0	BHP	0.08	NA	NA
Total System Design Supply Airflow (CFM):			1520	Total System Design (B)HP:	0.83	**Maximum System Fan Power (B)HP:**	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-15 14:03:04

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC C6	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC C7	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1520	BHP	0.75	NA	NA
EF	Exhaust	1	0	BHP	0.16	NA	NA
Total System Design Supply Airflow (CFM):			1520	Total System Design (B)HP:	0.91	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC C8	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1520	BHP	0.75	NA	NA
EF	Exhaust	1	0	BHP	0.11	NA	NA
Total System Design Supply Airflow (CFM):			1520	Total System Design (B)HP:	0.86	**Maximum System Fan Power (B)HP:**	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-15 14:03:04

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC C9	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.75	NA	NA
EF	Exhaust	1	0	BHP	0.11	NA	NA
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.86	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC C10	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.75	NA	NA
EF	Exhaust	1	0	BHP	0.11	NA	NA
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.86	**Maximum System Fan Power (B)HP:**	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC B2	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.75	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC B3	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.75	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC B4	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC B5	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC B6	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC C1	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1520	BHP	0.75	NA	NA
EF	Exhaust	1	0	BHP	0.16	NA	NA
Total System Design Supply Airflow (CFM):			1520	Total System Design (B)HP:	0.91	**Maximum System Fan Power (B)HP:**	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC C13	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	403	BHP	0.2	NA	NA
Total System Design Supply Airflow (CFM):			403	Total System Design (B)HP:	0.2	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC C2	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1520	BHP	0.75	NA	NA
EF	Exhaust	1	0	BHP	0.16	NA	NA
Total System Design Supply Airflow (CFM):			1520	Total System Design (B)HP:	0.91	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC C12	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	403	BHP	0.2	NA	NA
Total System Design Supply Airflow (CFM):			403	Total System Design (B)HP:	0.2	**Maximum System Fan Power (B)HP:**	

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP/FC S4	<65,000		HSPF	8.2	10.5	SEER	14.0	15.5
HP/FC S5	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC S6	<65,000		HSPF	8.2	9	SEER	14.0	16
HP/FC S7	<65,000		HSPF	8.2	9	SEER	14.0	15.5
HP/FC S8	<65,000					SEER	14.0	20
RP B1 B2	<65,000					SEER	14.0	14
RP C1 C2	<65,000					SEER	14.0	14
RP C3 C4	<65,000					SEER	14.0	14

Electric Resistance Heating

01	02	03	04
Name or Item Tag	Equipment Description	Output Capacity (kW)	Applicable Exception to §140.4(g) Allowing Electric Resistance Heating
RP B1 B2	Other	3	Exception3: Total capacity of electric-resistance heating systems serving the entire building is less than 10% of the total design output capacity of all heating equipment serving the entire building
RP C1 C2	Other	3	Exception3: Total capacity of electric-resistance heating systems serving the entire building is less than 10% of the total design output capacity of all heating equipment serving the entire building
RP C3 C4	Other	3	Exception3: Total capacity of electric-resistance heating systems serving the entire building is less than 10% of the total design output capacity of all heating equipment serving the entire building

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G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	HP/FC A1	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC A2	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.75	**Maximum System Fan Power (B)HP:**	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC A3	**Economizer:**[1]	NA: Special OA filtration	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	1	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (B)HP:	1	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC A4	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1520	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1520	Total System Design (B)HP:	0.75	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC B1	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.75	**Maximum System Fan Power (B)HP:**	

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

CD SET

JUNE 5, 2025

SHEET TITLE

TITLE 24 DOCUMENTATION (DSA #01-119941 INC.2)

SHEET NUMBER

T-1.2

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	RP C1 C2	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	2	0	BHP	0	NA	NA
Total System Design Supply Airflow (CFM):			0	Total System Design (B)HP:	0	**Maximum System Fan Power (B)HP:**	

System Name:	RP C3 C4	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	2	0	BHP	0	NA	NA
Total System Design Supply Airflow (CFM):			0	Total System Design (B)HP:	0	**Maximum System Fan Power (B)HP:**	

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

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I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP/FC A1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC A2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC A3	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC A4	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC B1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC B2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC B3	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC B4	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC B5	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC B6	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project

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I. SYSTEM CONTROLS

HP/FC C13	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C12	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C3	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C4	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C5	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C6	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C7	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C8	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C9	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C10	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC C11	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project

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System Name:	HP/FC D16 D17	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	2	1166	BHP	0.2	NA	NA
Total System Design Supply Airflow (CFM):			1166	Total System Design (B)HP:	0.4	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC S1 S2	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	2	2800	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			2800	Total System Design (B)HP:	1.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC S3	**Economizer:**[1]	NA: Special OA filtration	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	1	NA	NA
EF	Exhaust	1	0	BHP	0.16	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (B)HP:	1.16	**Maximum System Fan Power (B)HP:**	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC S4	**Economizer:**[1]	NA: Special OA filtration	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	1	NA	NA
EF	Exhaust	1	0	BHP	0.16	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (B)HP:	1.16	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC S5	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.75	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC S6	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.75	**Maximum System Fan Power (B)HP:**	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC S7	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC S8	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	403	BHP	0.2	NA	NA
Total System Design Supply Airflow (CFM):			403	Total System Design (B)HP:	0.2	**Maximum System Fan Power (B)HP:**	

System Name:	RP B1 B2	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	2	0	BHP	0	NA	NA
Total System Design Supply Airflow (CFM):			0	Total System Design (B)HP:	0	**Maximum System Fan Power (B)HP:**	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC C11	**Economizer:**[1]	NA: Special OA filtration	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	1	NA	NA
EF	Exhaust	1	0	BHP	0.14	NA	NA
Total System Design Supply Airflow (CFM):			1800	Total System Design (B)HP:	1.14	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC D1	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1520	BHP	0.75	NA	NA
Total System Design Supply Airflow (CFM):			1520	Total System Design (B)HP:	0.75	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC D2	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

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System Name:	HP/FC D3	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC D4	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC D5	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	HP/FC D6	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC D7	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

System Name:	HP/FC D8	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1050	BHP	0.5	NA	NA
Total System Design Supply Airflow (CFM):			1050	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

LICENSED ARCHITECT
JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
STATE OF CALIFORNIA
SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

CD SET
JUNE 5, 2025

SHEET TITLE

TITLE 24 DOCUMENTATION (DSA #01-119941 INC.2)

SHEET NUMBER

T-1.3

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM

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J. VENTILATION AND INDOOR AIR QUALITY

Classroom B05 Zone	Lecture/ postsecondary classroom	983			373.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				374	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC B4	System Design OA CFM Airflow^1		65	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom B06 Zone	Lecture/ postsecondary classroom	870			330.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				331	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC B5	System Design OA CFM Airflow^1		65	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		

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J. VENTILATION AND INDOOR AIR QUALITY

Classroom B07 Zone	Lecture/ postsecondary classroom	871			331	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				331	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC B6	System Design OA CFM Airflow^1		65	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom B08 Zone	Lecture/ postsecondary classroom	873			331.7	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				332	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C1	System Design OA CFM Airflow^1		1100	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		

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J. VENTILATION AND INDOOR AIR QUALITY

Classroom C01 Zone	Lecture/ postsecondary classroom	1089			413.8	0	1100	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				414	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C13	System Design OA CFM Airflow^1		25	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Supply C01A Zone	Occupiable storage rooms for dry materials	330			49.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				50	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C2	System Design OA CFM Airflow^1		1100	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom A03 Zone	Lecture/ postsecondary classroom	982			373.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				373	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC A3	System Design OA CFM Airflow^1		105	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Staff Lounge A04 Zone	Break room	1091			545.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Offices A04A 5A 5B Zone	Office space	309			46.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				592	18	Ventilation for this System Complies?		Yes

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	HP/FC A4	System Design OA CFM Airflow^1		94	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom A05 Zone	Lecture/ postsecondary classroom	1091			414.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Office Zone	Office space	160			24	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				439	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC B1	System Design OA CFM Airflow^1		86	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

J. VENTILATION AND INDOOR AIR QUALITY

Open Office B03 Zone	Office space	1147			172	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				172	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC B2	System Design OA CFM Airflow^1		74	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Data Tech Zone	Office space	985			147.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				148	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC B3	System Design OA CFM Airflow^1		74	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		

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CALIFORNIA ENERGY COMMISSION

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I. SYSTEM CONTROLS

HP/FC D3	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D4	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D5	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D6	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D7	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D8	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D16 D17	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D9	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D10	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D11	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D12	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D13	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D14	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC D15	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project

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I. SYSTEM CONTROLS

RTU M1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
RTU M2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC M1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC S1 S2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC S3	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC S4	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC S5	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC S6	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC S7	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
HP/FC S8	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
RP B1 B2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
RP C1 C2	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project
RP C3 C4	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	NA: Serves < 25k ft^2	EMCS	NA: Single Zone	NA: Alteration Project

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventialtion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04		05			06			07	
System Name	HP/FC A1	System Design OA CFM Airflow^1		40	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 ^{3}					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ^{6}	
	Occupancy Type^4	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people^5	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Conf A02A Zone	Assembly- multiuse	540			270	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				270	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC A2	System Design OA CFM Airflow^1		74	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ^{2} Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

CD SET
JUNE 5, 2025

SHEET TITLE

TITLE 24 DOCUMENTATION (DSA #01-119941 INC.2)

SHEET NUMBER

T-1.4

STATE OF CALIFORNIA

Mechanical Systems

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J. VENTILATION AND INDOOR AIR QUALITY

Classroom C03 Zone	Lecture/ postsecondary classroom	1205			457.9	0	1100	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				458	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C12	System Design OA CFM Airflow[1]		16	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Supply C03A Zone	Occupiable storage rooms for dry materials	215			32.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				32	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C3	System Design OA CFM Airflow[1]		1256	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		

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J. VENTILATION AND INDOOR AIR QUALITY

Classroom C07 Zone	Lecture/ postsecondary classroom	1091			414.6	0	1250	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Supply C07A Zone	Occupiable storage rooms for dry materials	86			12.9	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				427	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C4	System Design OA CFM Airflow[1]		65	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom C09 Zone	Lecture/ postsecondary classroom	862			327.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				328	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C5	System Design OA CFM Airflow[1]		700	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

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CALIFORNIA ENERGY COMMISSION

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom C11 Zone	Lecture/ postsecondary classroom	983			373.5	0	700	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				374	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C6	System Design OA CFM Airflow[1]		48	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom C12 Zone	Lecture/ postsecondary classroom	644			244.7	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				245	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C7	System Design OA CFM Airflow[1]		1100	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom C10 Zone	Lecture/ postsecondary classroom	982			373.2	0	1100	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				373	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C8	System Design OA CFM Airflow[1]		916	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom C08 Zone	Lecture/ postsecondary classroom	866			329.1	0	900	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Supply C08A Zone	Occupiable storage rooms for dry materials	105			15.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Supply C10A Zone	Occupiable storage rooms for dry materials	103			15.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

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J. VENTILATION AND INDOOR AIR QUALITY

17	Total System Required Min OA CFM				360	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C9	System Design OA CFM Airflow[1]		908	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom C06 Zone	Lecture/ postsecondary classroom	871			331	0	900	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Supply C06A Zone	Occupiable storage rooms for dry materials	105			15.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				347	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C10	System Design OA CFM Airflow[1]		908	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		

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J. VENTILATION AND INDOOR AIR QUALITY

Classroom C04 Zone	Lecture/ postsecondary classroom	870			330.6	0	900	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Supply C04A Zone	Occupiable storage rooms for dry materials	104			15.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				346	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC C11	System Design OA CFM Airflow[1]		1266	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom C02 Zone	Lecture/ postsecondary classroom	1205			457.9	0	1250	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Supply C02A Zone	Occupiable storage rooms for dry materials	215			32.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				490	18	Ventilation for this System Complies?		Yes

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STATE OF CALIFORNIA

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CALIFORNIA ENERGY COMMISSION

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	HP/FC D1	System Design OA CFM Airflow[1]		89	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D02 Zone	Lecture/ postsecondary classroom	1193			453.3	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				453	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D2	System Design OA CFM Airflow[1]		49	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D04 Zone	Lecture/ postsecondary classroom	648			246.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				246	18	Ventilation for this System Complies?		Yes

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	HP/FC D3	System Design OA CFM Airflow[1]		48	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D06 Zone	Lecture/ postsecondary classroom	641			243.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				244	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D4	System Design OA CFM Airflow[1]		49	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D08 Zone	Lecture/ postsecondary classroom	647			245.9	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				246	18	Ventilation for this System Complies?		Yes

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	HP/FC D5	System Design OA CFM Airflow[1]		48	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D10 Zone	Lecture/ postsecondary classroom	646			245.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				245	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D6	System Design OA CFM Airflow[1]		49	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D12 Zone	Lecture/ postsecondary classroom	648			246.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				246	18	Ventilation for this System Complies?		Yes

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS
Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

CD SET

JUNE 5, 2025

SHEET TITLE

TITLE 24 DOCUMENTATION (DSA #01-119941 INC.2)

SHEET NUMBER

T-1.5

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM

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J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	HP/FC D7	System Design OA CFM Airflow[1]		57	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D14 Zone	Lecture/ postsecondary classroom	756			287.3	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				287	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D8	System Design OA CFM Airflow[1]		57	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D16 Zone	Lecture/ postsecondary classroom	758			288	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				288	18	Ventilation for this System Complies?		Yes

Registration Number:
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Registration Provider: Energysoft

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04		05			06			07	
System Name	HP/FC D16 D17	System Design OA CFM Airflow[1]		40	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Darkroom D01 Zone	Lecture/ postsecondary classroom	528			200.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				201	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D9	System Design OA CFM Airflow[1]		560	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D03 Zone	Lecture/ postsecondary classroom	762			289.6	0	550	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

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J. VENTILATION AND INDOOR AIR QUALITY

Storage Zone	Occupiable storage rooms for dry materials	127			19	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				309	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D10	System Design OA CFM Airflow[1]		71	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D07 Zone	Lecture/ postsecondary classroom	761			289.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Office Zone	Office space	181			27.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				316	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D11	System Design OA CFM Airflow[1]		57	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

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Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D09 Zone	Lecture/ postsecondary classroom	762			289.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				290	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D12	System Design OA CFM Airflow[1]		57	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D11 Zone	Lecture/ postsecondary classroom	760			288.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				289	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D13	System Design OA CFM Airflow[1]		57	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

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Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D13 Zone	Lecture/ postsecondary classroom	762			289.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				290	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D14	System Design OA CFM Airflow[1]		57	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D15 Zone	Lecture/ postsecondary classroom	762			289.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				290	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC D15	System Design OA CFM Airflow[1]		49	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

Registration Number:
Registration Date/Time:
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Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom D17 Zone	Lecture/ postsecondary classroom	652			247.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				248	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	RTU M1	System Design OA CFM Airflow[1]		96	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Choral Room M13 Zone	Lecture/ postsecondary classroom	1281			486.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				487	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	RTU M2	System Design OA CFM Airflow[1]		131	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

Registration Number:
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J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Band Room M14 Zone	Lecture/ postsecondary classroom	1741			661.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				662	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC M1	System Design OA CFM Airflow[1]		5	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Custodian M3 Zone	Occupiable storage rooms for liquids/ gels	66			9.9	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				10	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC S1 S2	System Design OA CFM Airflow[1]		164	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 50 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Leadership Zone	Office space	2180			327	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				327	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC S3	System Design OA CFM Airflow[1]		1100	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
3D Design S02 Zone	Computer Lab	1612			241.8	0	1100	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				242	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC S4	System Design OA CFM Airflow[1]		1107	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	

Registration Number:
Registration Date/Time:
Registration Provider: Energysoft

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 51 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Ceramics S04 Zone	Classroom (ages 5-18)	1578			236.7	1104.6	1100	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Office S04A Zone	Office space	87			13	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				250	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC S5	System Design OA CFM Airflow[1]		78	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom S05 Zone	Lecture/ postsecondary classroom	929			353	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
Office S05A Zone	Office space	113			17	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

CD SET
JUNE 5, 2025

SHEET TITLE

TITLE 24 DOCUMENTATION (DSA #01-119941 INC.2)

SHEET NUMBER

T-1.6

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STATE OF CALIFORNIA

Mechanical Systems

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CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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L. DISTRIBUTION (DUCTWORK and PIPING)

		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC B2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	
		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC B3	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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L. DISTRIBUTION (DUCTWORK and PIPING)

		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC B4	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	
		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC B5	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	

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L. DISTRIBUTION (DUCTWORK and PIPING)

		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC B6	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	
		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

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CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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J. VENTILATION AND INDOOR AIR QUALITY

[2] Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

[4] See Standards Tables 120.1-A and 120.1-B.

[5] For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.

[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft^2 or smaller, multipurpose rooms less than 1,000 ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:	HP/FC A1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	

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L. DISTRIBUTION (DUCTWORK and PIPING)

		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC A2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	
		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC A3	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	

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L. DISTRIBUTION (DUCTWORK and PIPING)

		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC A4	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	
		☐ In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC B1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		☐ Outdoors	
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
		☐ In an unconditioned crawl space	

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J. VENTILATION AND INDOOR AIR QUALITY

17	Total System Required Min OA CFM				370	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC S6	System Design OA CFM Airflow[1]		85	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom S06 Zone	Lecture/ postsecondary classroom	1134			430.9	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				431	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	HP/FC S7	System Design OA CFM Airflow[1]		71	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Art Gallery S08 Zone	Classroom (ages 5-18)	945			141.8	661.5	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				142	18	Ventilation for this System Complies?		Yes

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 53 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	HP/FC S8	System Design OA CFM Airflow[1]		9	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
IDF S04A Zone	All others	121			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	RP B1 B2	System Design OA CFM Airflow[1]		21	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Restroom B00 Zone	Toilet, public	282			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?		Yes

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Mechanical Systems

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 54 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	RP C1 C2	System Design OA CFM Airflow[1]		27	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Restroom C00A Zone	Toilet, public	361			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	RP C3 C4	System Design OA CFM Airflow[1]		27	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Restroom C00B Zone	Toilet, public	361			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK
ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: JUNE 5, 2025

TENNYSON
HIGH SCHOOL

BUILDING G
MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

CD SET

JUNE 5, 2025

SHEET TITLE

TITLE 24 DOCUMENTATION (DSA #01-119941 INC.2)

SHEET NUMBER

T-1.7

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Tennyson High School Modernization Inc 2	Report Page:	(Page 67 of 84)
Project Address:	27035 Whitman Street	Date Prepared:	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D3	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D4	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

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STATE OF CALIFORNIA

Mechanical Systems

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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C8	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C9	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

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STATE OF CALIFORNIA

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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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Project Address:	27035 Whitman Street	Date Prepared:	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C3	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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Project Address:	27035 Whitman Street	Date Prepared:	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D5	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D6	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

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L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C10	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C11	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C4	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C5	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D7	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D8	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Tennyson High School Modernization Inc 2	Report Page:	(Page 66 of 84)
Project Address:	27035 Whitman Street	Date Prepared:	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Tennyson High School Modernization Inc 2	Report Page:	(Page 63 of 84)
Project Address:	27035 Whitman Street	Date Prepared:	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)			
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C6	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC C7	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

LICENSED ARCHITECT
JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
STATE OF CALIFORNIA

SIGNED: JUNE 5, 2025

TENNYSON HIGH SCHOOL

BUILDING G MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO: 1910.00
DRAWN BY: MJ/EV/JRB
DRAWING SCALE: AS NOTED
PTN: 61192-223 FILE NO: 1-H6

CD SET

JUNE 5, 2025

SHEET TITLE

TITLE 24 DOCUMENTATION (DSA #01-119941 INC.2)

SHEET NUMBER

T-1.8

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 76 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
	HP/FC A1: 3T ducted; HP/FC A2: 3.5T ducted; HP/FC A3: 4.5T ducted; HP/FC A4: 4T ducted; HP/FC B1: 3.5T ducted; HP/FC B2: 3.5T ducted; HP/FC B3: 3.5T ducted; HP/FC B4: 3T ducted; HP/FC B5: 3T ducted; HP/FC B6: 3T ducted; HP/FC C1: 4T ducted; HP/FC C13: 1T ductless; HP/FC C2: 4T ducted; HP/FC C12: 1T ductless; HP/FC C3: 4.5T ducted; HP/FC C4: 3T ducted; HP/FC C5: 4T ducted; HP/FC C6: 3T ducted; HP/FC C7: 4T ducted; HP/FC C8: 4T ducted; HP/FC C9: 3.5T ducted; HP/FC C10: 3.5T ducted; HP/FC C11: 4.5T ducted; HP/FC D1: 4T ducted; HP/FC D2: 3T ducted; HP/FC D3: 3T ducted; HP/FC D4: 3T ducted; HP/FC D5: 3T ducted; HP/FC D6: 3T ducted; HP/FC D7: 3T ducted; HP/FC D8: 3T ducted; HP/FC D16 17: 1.5T ductless; HP/FC S1 S2: 3.5T ducted; HP/FC S3: 5T ducted; HP/FC S4: 5T ducted;	☐	☐

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 77 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	HP/FC S5: 3.5T ducted; HP/FC S6: 3.5T ducted; HP/FC S7: 3T ducted; HP/FC S8: 1T ductless; 2661w electric wall heater; 2661w electric wall heater; 2661w electric wall heater;		

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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Mechanical Systems

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CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 78 of 84)**
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
	HP/FC A1: 3T ducted; HP/FC A2: 3.5T ducted; HP/FC A3: 4.5T ducted; HP/FC A4: 4T ducted; HP/FC B1: 3.5T ducted; HP/FC B2: 3.5T ducted; HP/FC B3: 3.5T ducted; HP/FC B4: 3T ducted; HP/FC B5: 3T ducted; HP/FC B6: 3T ducted; HP/FC C1: 4T ducted; HP/FC C13: 1T ductless; HP/FC C2: 4T ducted; HP/FC C12: 1T ductless; HP/FC C3: 4.5T ducted; HP/FC C4: 3T ducted; HP/FC C5: 4T ducted; HP/FC C6: 3T ducted; HP/FC C7: 4T ducted; HP/FC C8: 4T ducted; HP/FC C9: 3.5T ducted; HP/FC C10: 3.5T ducted; HP/FC C11: 4.5T ducted; HP/FC D1: 4T ducted; HP/FC D2: 3T ducted; HP/FC D3: 3T ducted; HP/FC D4: 3T ducted; HP/FC D5: 3T ducted; HP/FC D6: 3T ducted; HP/FC D7: 3T ducted; HP/FC D8: 3T ducted; HP/FC D16 17: 1.5T ductless; HP/FC S1 S2: 3.5T ducted; HP/FC S3: 5T ducted; HP/FC S4: 5T ducted;	☐	☐

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 73 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC S7	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	RP B1 B2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 74 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	RP C1 C2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	RP C3 C4	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 75 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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 https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 70 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC D16 D17	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC S1 S2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Tennyson High School Modernization Inc 2	**Report Page:**	**(Page 71 of 84)**
Project Address:	27035 Whitman Street	**Date Prepared:**	7/15/2022

L. DISTRIBUTION (DUCTWORK and PIPING)

	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC S3	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC S4	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-15 14:03:04

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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L. DISTRIBUTION (DUCTWORK and PIPING)

	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC S5	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	
	☐	In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code	
The answers to the questions below apply to the following duct systems:	HP/FC S6	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
	☐	Outdoors	
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces	
	☐	In an unconditioned crawl space	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-07-15 14:03:04

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122019 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS

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636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027

SIGNED: JUNE 5, 2025

TENNYSON
HIGH SCHOOL

BUILDING G
MODERNIZATION

27035 WHITMAN ST
HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
DRAWN BY:	MJ/EV/JRB
DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

CD SET

JUNE 5, 2025

SHEET TITLE

**TITLE 24
DOCUMENTATION
(DSA #01-119941
INC.2)**

SHEET NUMBER

T-1.9

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
	HP/FC A1: 3T ducted; HP/FC A2: 3.5T ducted; HP/FC A3: 4.5T ducted; HP/FC A4: 4T ducted; HP/FC B1: 3.5T ducted; HP/FC B2: 3.5T ducted; HP/FC B3: 3.5T ducted; HP/FC B4: 3T ducted; HP/FC B5: 3T ducted; HP/FC B6: 3T ducted; HP/FC C1: 4T ducted; HP/FC C13: 1T ductless; HP/FC C2: 4T ducted; HP/FC C12: 1T ductless; HP/FC C3: 4.5T ducted; HP/FC C4: 3T ducted; HP/FC C5: 4T ducted; HP/FC C6: 3T ducted; HP/FC C7: 4T ducted; HP/FC C8: 4T ducted; HP/FC C9: 3.5T ducted; HP/FC C10: 3.5T ducted; HP/FC C11: 4.5T ducted; HP/FC D1: 4T ducted; HP/FC D2: 3T ducted; HP/FC D3: 3T ducted; HP/FC D4: 3T ducted; HP/FC D5: 3T ducted; HP/FC D6: 3T ducted; HP/FC D7: 3T ducted; HP/FC D8: 3T ducted; HP/FC D16 17: 1.5T ductless; HP/FC S1 S2: 3.5T ducted; HP/FC S3: 5T ducted; HP/FC S4: 5T ducted;	☐	☐

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Mechanical Systems

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-18-A Energy Management Control Systems	HP/FC S5: 3.5T ducted; HP/FC S6: 3.5T ducted; HP/FC S7: 3T ducted; HP/FC S8: 1T ductless; 2661w electric wall heater; 2661w electric wall heater; 2661w electric wall heater;		

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

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STATE OF CALIFORNIA

Mechanical Systems

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Sean Plikuhn	Documentation Author Signature: Sean Plikuhn Digitally signed by Sean Plikuhn DN: cn=Sean Plikuhn, o=SOLDATA Energy Consulting, email=sean@soldata.com, c=US Date: 2022.07.15 14:10:28 -07'00'
Company: SOLDATA Energy Consulting	Signature Date: 7-15-2022
Address: 2227 Capricorn Way, Suite 202	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Santa Rosa CA 95407	Phone: 707-545-4440

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: Chris Del Core	Responsible Designer Signature:
Company: Costa Engineers Inc.	Date Signed: 2022-07-15
Address: 3274 Villa Lane	License: M31600
City/State/Zip: Napa CA 94558	Phone: 707-252-9177

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	HP/FC S5: 3.5T ducted; HP/FC S6: 3.5T ducted; HP/FC S7: 3T ducted; HP/FC S8: 1T ductless; 2661w electric wall heater; 2661w electric wall heater; 2661w electric wall heater;		

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Mechanical Systems

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CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
	HP/FC A1: 3T ducted; HP/FC A2: 3.5T ducted; HP/FC A3: 4.5T ducted; HP/FC A4: 4T ducted; HP/FC B1: 3.5T ducted; HP/FC B2: 3.5T ducted; HP/FC B3: 3.5T ducted; HP/FC B4: 3T ducted; HP/FC B5: 3T ducted; HP/FC B6: 3T ducted; HP/FC C1: 4T ducted; HP/FC C13: 1T ductless; HP/FC C2: 4T ducted; HP/FC C12: 1T ductless; HP/FC C3: 4.5T ducted; HP/FC C4: 3T ducted; HP/FC C5: 4T ducted; HP/FC C6: 3T ducted; HP/FC C7: 4T ducted; HP/FC C8: 4T ducted; HP/FC C9: 3.5T ducted; HP/FC C10: 3.5T ducted; HP/FC C11: 4.5T ducted; HP/FC D1: 4T ducted; HP/FC D2: 3T ducted; HP/FC D3: 3T ducted; HP/FC D4: 3T ducted; HP/FC D5: 3T ducted; HP/FC D6: 3T ducted; HP/FC D7: 3T ducted; HP/FC D8: 3T ducted; HP/FC D16 17: 1.5T ductless; HP/FC S1 S2: 3.5T ducted; HP/FC S3: 5T ducted; HP/FC S4: 5T ducted;	☐	☐

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-11-A Automatic Demand Shed Controls	HP/FC S5: 3.5T ducted; HP/FC S6: 3.5T ducted; HP/FC S7: 3T ducted; HP/FC S8: 1T ductless; 2661w electric wall heater; 2661w electric wall heater; 2661w electric wall heater;		

IDENTIFICATION STAMP
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APP: 01-122019 INC:
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DATE: 6/24/2025

QUATTROCCHI KWOK ARCHITECTS

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636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2027
SIGNED: JUNE 5, 2025

TENNYSON
HIGH SCHOOL

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HAYWARD, CA 94544

HAYWARD UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-122019

ARCH PROJECT NO:	1910.00
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DRAWING SCALE:	AS NOTED
PTN: 61192-223	FILE NO: 1-H6

CD SET
JUNE 5, 2025

SHEET TITLE

TITLE 24
DOCUMENTATION
(DSA #01-119941
INC.2)

SHEET NUMBER

T-1.10

BIMcloud: archiserver - BIMcloud Basic for Archicad 25/1910.00 Tennyson HS OPSC Mod/1910.00_THS OPSC Mod_Bldg G;6/3/2025;4:11 PM