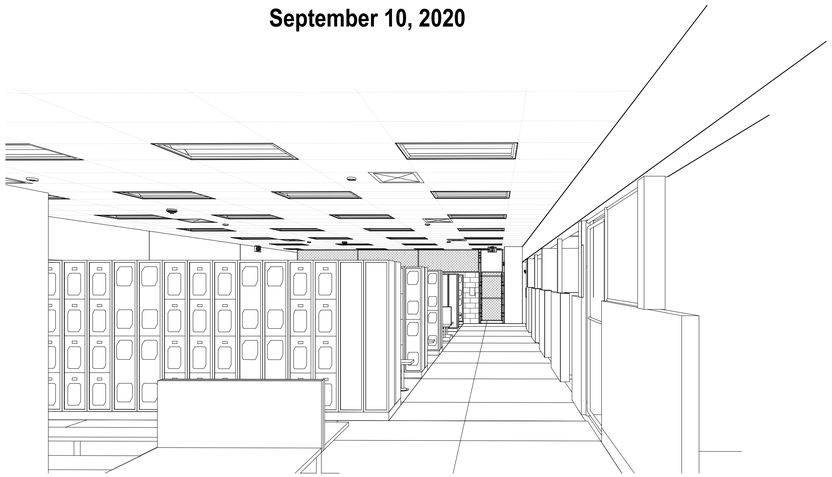
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

ROYAL HIGH SCHOOL
BOYS LOCKER ROOM MODERNIZATION

SIMI VALLEY UNIFIED SCHOOL DISTRICT

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

DSA_V2 SUBMITTAL
A# 03-120727 File No. 56-H6
September 10, 2020



DESIGN TEAM

OWNER

SIMI VALLEY UNIFIED SCHOOL DISTRICT
101 WEST COCHRAN STREET
SIMI VALLEY, CA 93065
(213) 241-1000

ARCHITECT

AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(818) 874-0071, (805) 530-3938

PLUMBING, MECHANICAL & ELECTRICAL

J&S CONSULTING ENGINEERS, INC.
3111 WINONA AVENUE, #102
BURBANK, CALIFORNIA 91504
(818) 841-0303

STRUCTURAL ENGINEER

ORION STRUCTURAL GROUP, INC.
223 E. THOUSAND OAKS BLVD. #220
THOUSAND OAKS, CA 91360
(805) 390-9242

SCOPE OF WORK

1. UPGRADE STAFF LOCKER, RESTROOM AND SHOWER FOR ACCESSIBILITY.
2. REPLACE FLOORING FINISHES.
3. UPGRADE 1 SHOWER ROOM FOR ACCESSIBILITY.
4. REPLACE METAL PANEL CEILING WITH SUSPENDED ACOUSTICAL TILE CEILING AND GRID.
5. PROVIDE WATER FILLING STATION AT ROOM TEMPERATURE.
6. REPLACE LIGHT FIXTURES.
7. PROVIDE NEW MECHANICAL AIR DISTRIBUTION TO LOCKER ROOM.
8. REPLACE PLUMBING HOT & COLD WATER LINES IN SHOWERS AND RESTROOMS.

DRAWING LIST

Grand total: 56

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL -
BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS		DATE: 09.10.2020
	05.15.2020 DSA_V1 SUBMITTAL	
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: PVP
		CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

TITLE SHEET

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

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___ OF ___

GENERAL NOTES

1. INTERPRETATION OF CONSTRUCTION DOCUMENTS
   A. ALL INFORMATION DEPICTED IN THESE DRAWINGS AND RELATIVE TO EXISTING CONDITIONS IS BASED ON THE BEST AVAILABLE DATA AT THE TIME THESE CONSTRUCTION DOCUMENTS WERE BEING EXCECUTED, BUT WITHOUT GUARANTEE OF ACCURACY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND SHALL REPORT ANY DISCREPANICES TO ARCHITECT PRIOR TO COMMENCING ANY WORK.

   B. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED RESULTING FROM THE REMOVAL OR REPLACEMENT OF WORK INSTALLED WITHOUT PROPER COORDINATION TO ALL OTHER TRADES, AND/OR PRIOR TO OBTAINING CLARIFICATION FROM THE ARCHITECT WHERE CONFLICTING INFORMATION EXISTS ON THE DRAWINGS.

   C. ARCHITECT RECOMMENDS THAT THE CONTRACTOR SHALL FURNISH ALL BIDDERS WITH A COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO DRAWINGS, SPECIFICATIONS AND ADDENDUMS.

   D. ALL BIDS AND LINE ITEM COSTS SUBMITTED BY THE CONTRACTOR IN CONJUNCTION WITH HIS SUBCONTRACTORS ARE CONSIDERED TO INCLUDE COMPLETE COORDINATION BETWEEN THE VARIOUS DISCIPLINES AS WELL AS ALL OTHER REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CODE AND PUBLIC UTILITY REQUIREMENTS. FURTHER, WHERE THERE ARE CONFLICTING SOLUTIONS IN THE CONSTRUCTION DOCUMENTS AND BID OR LINE ITEM COST IS SUBMITTED BY THE CONTRACTOR WITHOUT ANY FORMAL WRITTEN REQUEST FOR CLARIFICATION PRIOR TO BID OPENING, ALL SUCH ITEMS WILL BE CONSIDERED TO INCLUDE THE MOST EXPENSIVE OF THE POSSIBLE SOLUTIONS DEPICTED IN THE CONSTRUCTION DOCUMENTS.

   E. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND DSA.

2. GENERAL CONTRACTOR AND ALL MAJOR SUBCONTRACTORS ARE REQUIRED TO VISIT THE JOB SITE PRIOR TO SUBMISSION OF BID; OTHERWISE, BID WILL NOT BE ACCEPTED.

3. CONTRACTOR SHALL ENSURE THAT THE WORK SHALL BE DONE IN ACCORDANCE WITH ALL RULES AND REGULATIONS AND APPLICABLE CODES. OWNER SHALL SECURE AND PAY FOR ALL PERMITS REQUIRED FOR THE WORK AND WILL OBTAIN AND PAY FOR ALL REQUIRED INSPECTIONS DURING THE COURSE OF THE WORK.

4. CONTRACTOR SHALL SET AND SUPERVISE ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK THROUGHOUT THE PROJECT.

5. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE REMOVAL OF ALL DEBRIS FROM THE SITE ON A DAILY BASIS, AND THE KEEP THE CONSTRUCTION SITE CLEAN AND FREE FROM ANY OBSTRUCTIONS AT ALL TIMES.

6. CONTRACTOR SHALL WORK IN A COOPERATIVE MANNER WITH THE BUILDING OCCUPANTS. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IF A DISPUTE ARISES THAT AFFECTS THE PROJECT SCHEDULE OR QUALITY OF WORK.

7. ALL DIMENSIONS INDICATED ARE BELIEVED TO BE ACCURATE, BUT ARE NOT GUARANTEED TO BE SO. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. COORDINATE WITH EXISTING CONDITIONS WHERE INSUFFICIENT DETAIL DIMENSIONS ARE AVAILABLE. ALL DIMENSIONS ARE TO FINISHED FACE OF CONSTRUCTION OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE. DIMENSIONS NOTED AT "CLR" (CLEAR) ARE NOT ADJUSTABLE WITHOUT ARCHITECT'S APPROVAL.

8. DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR AND REQUIRED TO VISIT THE AREAS ENTAILED WITHIN THE SCOPE OF WORK, VERIFY DIMENSIONAL DATA, AND REVIEW THE EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. ANY CONFLICTS WITH THE EXISTING CONDITIONS SHALL BE BROUGHT IMMEDIATELY TO THE ARCHITECT'S ATTENTION.

10. DO NOT SUPPORT CEILINGS OR OTHER BUILDINGS STRUCTURES FROM DUCTWORK, PIPE OR CONDUITS OR SUPPORTS FOR SUCH ITEMS.

11. THE WORD "PROVIDE" SHALL BE DEFINED AS "FURNISH AND INSTALL COMPLETE AND READY TO USE." ITEMS NOT INDICATED AS EXISTING "(E) TO REMAIN" SHALL BE PROVIDED AS NEW.

12. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED ON THE DRAWINGS, CONTRACTOR SHALL APPLY, INSTALL, CONNECT, ERECT, USE, CLEAN AND CONDITION MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT PER MANUFACTURER;'S CURRENT PRINTED RECOMMENDATIONS. ALL PRODUCTS, MATERIALS AND EQUIPMENT PROVIDED ON THIS PROJECT SHALL BE SUITABLE FOR THE INTENDED SERVICE AND LOCATION AT WHICH THEY ARE INSTALLED.

13. CONTRACTOR SHALL PROTECT ALL WORK AND MATERIALS FROM DAMAGE BY HIS WORK, WORKMAN, SUBCONTRACTOR'S WORK OR SUBCONTRACTOR'S WORKMAN AND SHALL BE LIABLE FOR ALL DAMAGE THUS CAUSED.

14. ALL EQUIPMENT SELECTED WILL FIT INTO THE PHYSICAL SPACES INDICATED, ALLOWING SUFFICIENT ROOM FOR ACCESS, SERVICING, REMOVAL AND REPLACEMENT OF PARTS, ETC. ADEQUATE SPACE SHALL BE ALLOWED FOR CLEARANCE IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE CODES AND LOCAL ORDINANCES. AS PHYSICAL DIMENSIONS AND SPACE REQUIREMENTS OF SUCH EQUIPMENT VARY ACCORDING TO EACH MANUFACTURER, CONTRACTOR SHALL BE RESPONSIBLE FOR INITIAL ACCESS AND PROPER FIT.

15. ALL MATERIALS AND EQUIPMENT SUPPLIED FOR THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP, TITLE, AND SHALL BE OF THE TYPE AND QUALITY DESCRIBED HEREIN. IF IT BECOMES APPARENT WITHIN ONE YEAR FROM THE DATE OF ACCEPTANCE OF FINAL COMPLETION BY THE OWNER THAT THE EQUIPMENT DOES NOT MEET THE WARRANTIES SPECIFIED ABOVE, CONTRACTOR SHALL CORRECT ANY DEFECT, INCLUDING NONCONFORMANCE WITH THESE SPECIFICATIONS AT NO COST.

16. ALL STAGING AND STORAGE OF MATERIALS SHALL BE ON SITE.

17. CONTRACTOR SHALL SECURE CERTIFICATES OF INSPECTION AND OF OCCUPANCY AS MAY BE REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THE WORK AND DELIVER SAME TO THE OWNER UPON COMPLETION OF THE WORK.

GENERAL NOTES

18. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS AND RUBBISH FROM AND ABOUT THE PROJECT AS WELL AS ALL TOOLS, CONTRUCTION EQUIPMENT, MACHINERY, SURPLUS MATERIAL, ETC. AT THE COMPLETION OF WORK. ALL WORK SHALL BE LEFT IN CONDITION FOR OCCUPANCY BY THE TENANT SUCH THAT NO CLEANING, WAXING, POLISHING OR OTHER JANITORIAL OPERATIONS ARE REQUIRED.

19. ALL INSTALLED MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE STATE AND CITY CODES AND ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND ALL REQUIRMENTS OF LOCAL AND FEDERAL AUTHORITTIES HAVING JURISDICTION.

20. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK BY ALL SUB-CONTRACTORS. CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH CHANGEDS DUE TO LACK OF COORDINATION.

21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND ADEQUACY OF HIS PLANT, APPLICANCES, AND METHODS. HE SHALL ERECT AND MAINTAIN AT ALL TIMES PROPER SAFEGUARDS AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK FOR THE PROTECTION OF WORKMEN, OWNER, AND OWNER'S PROPERTY, AND SHALL POST DANGER WARNINGS AGAINST HAZARDS CREATED BY THE CONSTRUCTION OPERATIONS. HE SHALL DESIGNATE A RESPONSIBLE MEMBER OF HIS ORGANIZATION ON THE WORK, WHOSE DUTY SHALL BE THE PREVENTION OF ACCIDENTS. IN ABSENCE OF NOTICE TO THE CONTRARY, FILED IN WRITING TO THE OWNER, THIS PERSON WOULD BE THE SUPERINTENDENT OF THE CONTRACTOR.

22. PROVIDE 3/4" CHAMFER AT ALL EXPOSED CONCRETE EDGES UNLESS SHOWN OTHERWISE.

23. ALL EXTERIOR STEEL TO BE FACTORY PRIMED AND FIELD PAINTED.

24. DEMOLITION: FIELD VERIFY THE REMAINDER OF WALLS, CEILINGS, EQUIPMENT, FURNITURE, AND CASEWORK WITHIN PROJECT BOUNDARY. VERIFY REMOVAL OF EQUIPMENT WITH OWNER. FOR SPECIALTY EQUIPMENT REMOVAL VERIFY WITH OWNER.

25. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES-WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.

26 THE PROVISIONS OF CFC & CDC CHAPTER 33 SHALL BE ENFORCED ON THIS PROJECT.

27 PROVIDE ALL NECESSARY BLOCKING, BACKING AND FRAMING FOR LIGHT FIXTURES, ELECTRICAL UNITS, A/C EQUIPMENT, TOILET FIXTURES & ACCESSORIES, RAILINGS, GRAB BARS, AND ALL OTHER REQUIRING SAME.

28 CONTRACTOR SHALL REPAIR AND PATCH UP ALL DAMAGES TO EXISTING SURFACES CAUSED BY REMOVAL OF EXISTING EQUIPMENT ATTACHED TO EXISTING SURFACES. (CHALKBOARDS, BOOKSHELVES, TACKBOARDS, WALL HEATERS, PIPING, ETC.)

29 WHERE PATCHES ARE REQUIRED IN EXISTING, SURFACES ADJACENT MATERIAL SHALL BE MATCHED IN TEXTURE AND FINISH.

30 ROUTES OF INGRESS AND EGRESS FOR MATERIALS AND WORKMEN, AND LIMITS OF THE PROJECT AREA WILL BE DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES WITHIN SUCH LIMITS. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ADEQUATE SAFETY AND DUST BARRIERS IN THE SITE, ACROSS CORRIDORS AND ELSEQHERE AS REQUIRE.

31 SHUT DOWN OF EXISTING AND OPERATING PLUMBING, MECHANICAL AND ELECTRICAL SYSTEM OR PORTIONS THEREOF SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.

32 BEFORE PROCEEDING WITH THE CORING OR CUTTING OF WALLS AND FLOORS, ETC., THE CONTRACTOR SHALL PREPARE LAYOUTOF CUTTING OR CORING AND SHALL HAVE THE APPROVAL BY THE STRUCTURAL ENGINEER AND THE D.S.A. FIELD DISTRIC ENGINEER IN ORDER TO PROCEED WITH THE CUTTING OR CORING.

33 SAW-CUT EXISTING A.C. PAVING AND/OR CONCRETE FLOOR SLAB AS REQUIRED FOR NEW PIPE INSTALLATION AND NEW DEPRESSED CONCRETE SLAB, AND REPAIR TO MATCH EXISTING.

34 THE CONTRACTOR SHALL NOT COMMENCE THE WORK, IN PART OR IN FULL, PRIOR TO OBTAINING THE NOTICE-TO-PROCEED (NTP) FROM SVUSD.

35 IN CASE OF CONFLICT, THE MORE EXPENSIVE CONSTRUCTION MEANS AND METHOD SHALL BE USED.

GREEN BUILDING NOTES

1. ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CGBSC 5.408.1
2 WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN FOR APPROVAL BY THE ENFORCEMENT AGENCY THAT: 1.IDENTIFIES THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE. 2. DETERMINES IF MATERIALS WILL BE SORTED ON-SITE OR MIXED. 3. IDENTIFIES DIVERSION FACILITIES WHERE MATERIAL COLLECTED WILL BE TAKEN. 4. SPECIFIES THAT THE AMOUNT OF MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH. CGBSC 5.408.2
3. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 5.408.2, ITEMS 1 THRU 4. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATORY BY THE ENFORCING AGENCY. CGBSC 5.408.2.1
4. RECYCLE AND OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDIANCE, WHICHEVER IS MORE STRINGENT. CALCULATE THE AMOUNT OF MATERIALS DIVERTED BY WEIGHT OR VOLUME, BUT NOT BY BOTH. EXCEMPTIONS: 1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS 2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST. CGBSC 5.408.4

DSA GENERAL NOTES

1. A 'DSA CERTIFIED' PROJECT INSPECTOR WITH CLASS _3_ CERTIFICATION IS REQUIRED FOR THIS PROJECT.
2. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
3. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
4. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-388, PART 1, TITLE 24, CCR.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERIN THE FNISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24 , CCR)
6 A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
7 ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA BUILDING CODE OF REGULATIONS (CCR)

APPLICABLE CODES

LIST OF 2019 CALIFORNIA CODE OF REGULATIONS (C.C.R.):
APPLICABLE CODE AS OF JANUARY 1, 2020

PART 1- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2- 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R.
(2018 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA ADMENDMENTS)

PART 3- 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R.
(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

PART 4- 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R.
(2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO AND 2019 CALIFORNIA AMENDMENTS)

PART 5- 2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R.
(2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO AND 2019 CALIFORNIA AMENDMENTS)

PART 6- 2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 9- 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

PART 10- 2019 CALIFORNIA EXISTING BUILDING CODE (2018 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

PART 11- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.

PART 12- 2019 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17a	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY PUMPS	2019 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2018 EDITION

DEPARTMENT OF JUSTICE REGULATIONS FOR TITLE II OF THE AMERICANS WITH DISABILITIES ACT OF 1990 WITH REVISED REGULATIONS AS PUBLISHED IN THE FEDERAL REGISTER ON SEPTEMBER 15, 2010, EFFECTIVE MARCH 15, 2012. TITLED ADA STANDARDS FOR ACCESSIBLE DESIGN.

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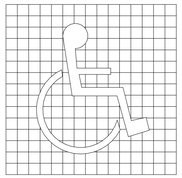
GENERAL ACCESSIBILITY NOTES

1. SYMBOL OF ACCESSIBILITY

A. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USEABLE BY PHYSICALLY DISABLED PERSON AS SET FORTH IN THESE BUILDING STANDARDS AND AS SPECIFICALLY REQUIRED IN THIS SECTION. NOTE: SEE FIGURE 11B-703.7.2.1 BELOW.

B. COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B. EXCEPTION: THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE SPECIAL SIGNS AND IDENTIFICATION NECESSARY TO COMPLEMENT DECOR OR UNIQUE DESIGN WHEN IT IS DETERMINED THAT SUCH SIGNS AND IDENTIFICATION PROVIDES ADEQUATE DIRECTION TO PERSONS WITH DISABILITY.

C. CONTRAST OF SYMBOL: CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.



NOTE:
POST SIGNAGE AT SIDELIGHT WINDOW TO ALL ENTRANCES
RFHSSD 5 X 5 DECAL - POSTED

PROPORTIONS DISPLAY CONDITIONS

INTERNATIONAL SYMBOL OF ACCESSIBILITY

FIGURE 11B-703.7.2.1 (2019 CBC)

2. ENTRANCES

A. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

B. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44-INCHES ABOVE THE FLOOR. PANIC HDWR TO BE MOUNTED ABOVE 34" TO 44"

C. THE FLOOR LANDING ON EACH SIDE OF AND ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60-INCHES AND THE LENGTH OPPOSITE THE SWING OF 48-INCHES AS MEASURE AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.

D. THE FLOOR OR LANDING SHALL BE NO MORE THAN 1/2" LOWER THAN THE THRESHOLD OR THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

E. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS FOR EXTERIOR DOOR AND 5 LBS. FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OF FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED AS AUTHORIZED BY AUTHORITY HAVING JURISDICTION, NOT TO EXCEED 15 LBS.

3. ACCESSIBLE ENTRANCES

A. ACCESSIBLE ENTRANCES TO THE BUILDING SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS REFERENCED HEREIN. SIGNS AT ENTRIES SHALL BE LOCATED SUCH THAT THEY ARE VISIBLE FROM THE MAIN APPROACH TO THE ENTRY.

4. SIGNS

A. ALL SIGNS (AT MAIN ENTRANCES, TOILETS, PERMANENT ROOMS, ASSISTIVE LISTENING SYSTEM(S) ETC. SHALL COMPLY WITH TITLE 24 AND SECTION 11B-216 AND 11B-703.

5. PATH OF TRAVEL

A. GATES IN PATH OF TRAVEL MUST COMPLY WITH EXIT DOOR REQUIREMENTS. (CBC 11B-206.5, 11B-404 AND ADA STANDARDS FOR ACCESSIBLE DESIGN, DEPARTMENT OF JUSTICE, SECTION 404). GATE HARDWARE SHALL NOT REQUIRE PINCHING, GRASPING, OR TWISTING MOTION TO OPERATE. PROVIDE SOLID KICK PLATES 10" MINIMUM HIGH. CLEAR SPACE BELOW GATE SHALL BE 3" MAXIMUM ABOVE PAVING ON BOTH SIDES OF THE GATE. THE MAXIMUM EFFORT TO OPERATE THE GATES SHALL NOT EXCEED 5 LBS.

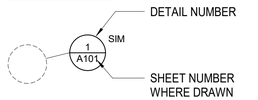
B. HANDRAILS FOR STAIRS AND RAMPS SHALL BE PER APPROVED PLANS AND MOUNTED 1 1/2" MINIMUM FROM SIDE WALLS. CBC 11B-505. ALL WELDED JOINTS AND SURFACES SHALL BE GROUND SMOOTH, NO SHARP OR ABRASIVE CORNERS, EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAIL SHALL BE SMOOTH. CBC 11B.505.6 TO 11B.505.8.

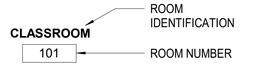
C. "DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE 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." (DSA PR15-01)

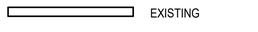
D. ADA TOLERANCE NOTE: IN CASE WHERE SLOPE PERCENTAGES AND DIMENSIONS ARE IDENTIFIED ON THESE PLANS FOR ELEMENTS REGULATED BY THE AMERICAN DISABILITIES ACT AND CHAPTER IIB OF THE CALIFORNIA BUILDING CODE, THE SLOPE PERCENTAGES AND DIMENSIONS SHOWN MAY BE MORE STRINGENT THAN REQUIRED BY CODE. DIMENSIONS AND SLOPE GRADIENTS ALLOWED IN CHAPTER IIB OF THE CBC SHALL BE ACCEPTABLE AND DEEMED TO BE IN COMPLIANCE WITH THESE DOCUMENTS.

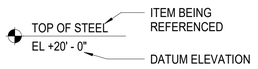
LEGEND

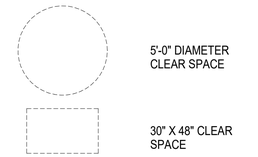
DETAIL REFERENCE











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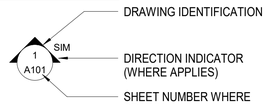

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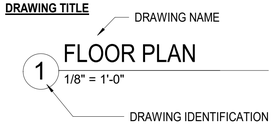
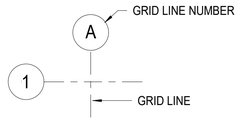


COLUMN CENTERLINES



LOCKER ANALYSIS

BOYS LOCKER:

TOTAL LOCKERS COUNT:	696
TOTAL ACCESSIBLE LOCKERS REQUIRED 1% :	7
TOTAL ACCESSIBLE LOCKERS PROVIDED:	8

FOOTBALL LOCKER AREA:

TOTAL LOCKERS COUNT:	189
TOTAL ACCESSIBLE LOCKERS REQUIRED 1% :	2
TOTAL ACCESSIBLE LOCKERS PROVIDED:	3

BASKETBALL LOCKER AREA:

TOTAL LOCKERS COUNT:	39
TOTAL ACCESSIBLE LOCKERS REQUIRED 1% :	1
TOTAL ACCESSIBLE LOCKERS PROVIDED:	1

VOLLEYBALL LOCKER AREA:

TOTAL LOCKERS COUNT:	25
TOTAL ACCESSIBLE LOCKERS REQUIRED 1% :	1
TOTAL ACCESSIBLE LOCKERS PROVIDED:	2

STAFF LOCKER AREA:

TOTAL LOCKERS COUNT:	9
TOTAL ACCESSIBLE LOCKERS REQUIRED 1% :	1
TOTAL ACCESSIBLE LOCKERS PROVIDED:	2

CODE ANALYSIS EXISTING GYMNASIUM BUILDING

EXISTING GYMNASIUM BUILDING (A#27167) - CLOSED AND CERTIFIED
TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
BOYS RESTROOMS REMODEL (A#03-113176) - CLOSED AND CERTIFIED
GIRLS RESTROOMS & LOCKER ROOM REMODEL (A#03-117455) - CLOSED AND CERTIFIED

NO CHANGE TO SQUARE FOOTAGE OR OCCUPANCY

A. OCCUPANCY TYPE: **B-2** ORIGINAL (**A-4** 2019 CBC) (GYMNASIUM - CENTER PORTION)
E (EAST & WEST WINGS)

B. CONSTRUCTION TYPE: **TYPE III 1HR** (GYMNASIUM - CENTER PORTION - FULLY SPRINKLERED)
TYPE V-B (EAST & WEST WINGS - NON-SPRINKLERED)

C. NUMBER OF STORIES: ONE STORY

D. BUILDING HEIGHT: **30 FT** (GYMNASIUM CENTER PORTION)
15 FT (EAST & WEST WINGS)

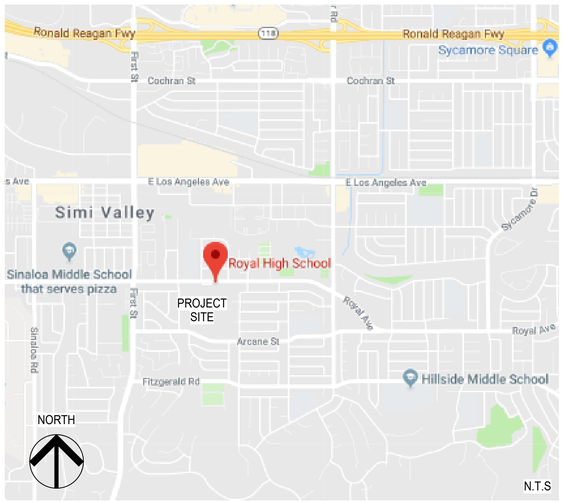
E. AREA ANALYSIS: 36,665 S.F. TOTAL
7663 S.F. BOY'S LOCKER ROOM

F. OCCUPANT LOAD: 106 (BOY'S LOCKER ROOM)
SEE EXITING CALCULATIONS & DIAGRAM ON 2/A104

ABBREVIATIONS

&	AND
(E)	EXISTING
@	AT
A.B.	ANCHOR BOLT
A.C.	ASPHALTIC CONCRETE
A.F.F.	ABOVE FINISH FLOOR
A/C	AIR CONDITIONER
ACOUST	ACOUSTICAL
AL.	ALUMINUM
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
BLDG	BUILDING
BLK	BLOCK OR BLOCKING
BOT	BOTTOM
C.I.	CAST IRON
C.J.	CEILING JOIST
C.L.	CHAIN LINK
C.L.F.	CHAIN LINK FENCE
C.M.U.	CONCRETE MASONRY UNIT
CAB	CABINET
CLG	CEILING
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
D	DEMOLITION
d	PENNY
D.F	DOUGLAS FIR
DBL	DOUBLE
DEMO	DEMOLITION
DET	DETAIL
DIA.	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E.J.	EXPANSION JOINT
EA	EACH
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.G	FINISH GRADE
F.R.	FIRE RATED, FIRE RESISTANT
FIN	FINISH
FLR	FLOOR
FR.	FRAME
FT	FOOT OR FEET
FTG	FOOTING
G.I.	GALVANIZED IRON
G.W.B.	GYPSUM WALLBOARD
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GYP	GYPSUM
HDR	HEADER
HI	HIGH
HT	HEIGHT
IN	INCHES
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
LBS	POUNDS
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
N.I.C.	NOT IN CONTRACT AND NOT PART OF THIS APPLICATION
N.T.S.	NOT TO SCALE
N/A	NOT AVAILABLE
NO., #	NUMBER
O.C.	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
PT	POINT
PWD	PLYWOOD
R	RISER
R.C.P.	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
REF	REFERENCE
REFL	REFLECTED
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISION
RM	ROOM
S.F.	SQUARE FEET
S.S.	STAINLESS STEEL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SQ	SQUARE
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND, SUSPENDED
T & G	TONGUE AND GROOVE
T.O.C.	TOP OF CURB
T.O.P.	TOP OF PLATE
T.O.P.	TOP OF PARAPET
T.O.W.	TOP OF WALL
TEL	TELEPHONE
THK	THICK
TYP	TYPICAL
U.L.	UNDERWRITERS LABORATORIES
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT	VERTICAL
W.H.	WATER HEATER
W.R.	WATER RESISTANCE
W.W.M.	WELDED WIRE MESH
W/	WITH
WD	WOOD
WDW	WINDOW

VICINITY MAP



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS		DATE: 09.10.2020
05.15.2020 DSA_V1 SUBMITTAL		DRAWN: PVP
09.10.2020 DSA_V2 SUBMITTAL		CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

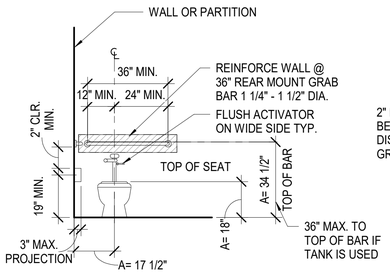
ACCESSIBILITY NOTES, ABRVS., LEGEND, CODE & LOCKER ANALYSIS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE; SCALE DRAWINGS ACCORDINGLY

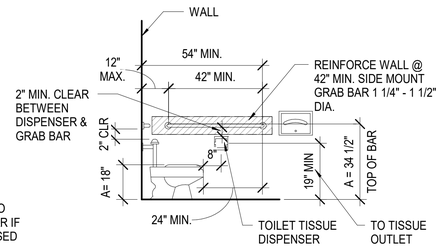
G002

___ OF ___

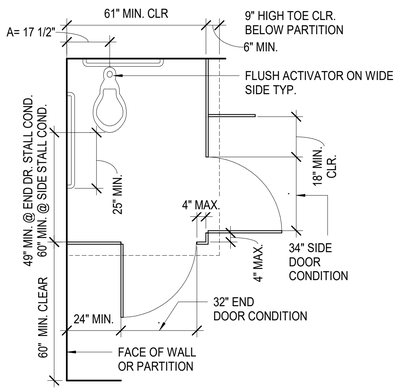
DIMENSION LEGEND
A = ADULT DIMENSIONS (AGE 12 AND OVER; MIDDLE SCHOOL & HIGH SCHOOL)



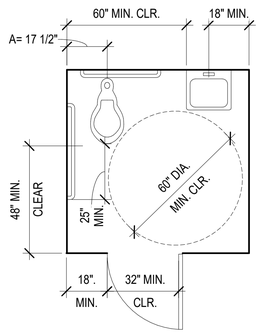
FRONT ELEV.
TOILET



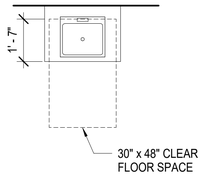
SIDE ELEV.
TOILET



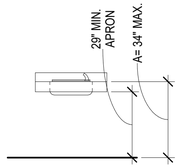
TOILET/STALL
PLAN VIEW



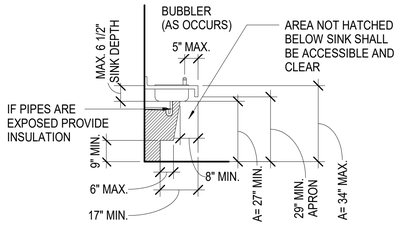
SINGLE ACCOMODATION TOILET
PLAN VIEW



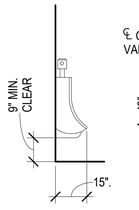
ACCESSIBLE SINK
CABINET PLAN



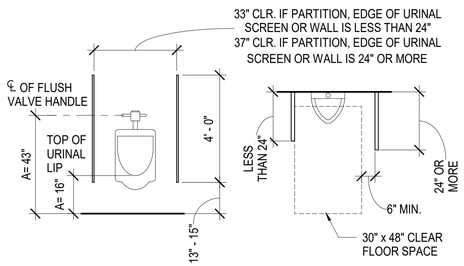
ACCESSIBLE SINK
CABINET ELEV.



ACCESSIBLE SINK
CABINET SECTION

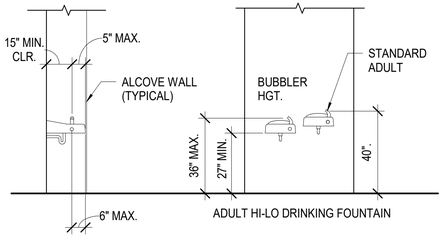


SIDE ELEV.
URINAL



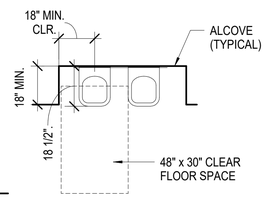
FRONT ELV.
URINAL

PLAN VIEW
URINAL

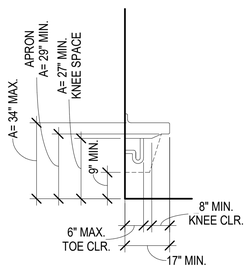


DRINKING FOUNTAIN
SECTION VIEW

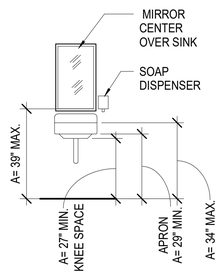
DRINKING FOUNTAIN
ELEVATION



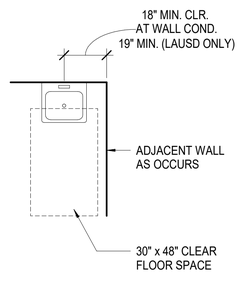
DRINKING FOUNTAIN
PLAN VIEW



LAV. SIDE
ELEVATION



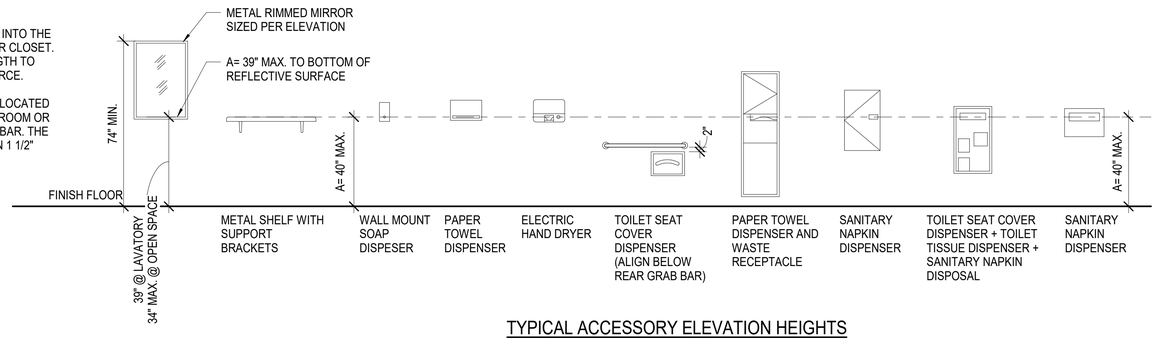
LAV. FRONT
ELEVATION



LAVATORY
PLAN VIEW

ACCESSORIES INFORMATION

1. THE GRAB BAR SHALL NOT PROJECT MORE THAN 3" INTO THE 48" MINIMUM CLEAR SPACE IN FRONT OF THE WATER CLOSET. GRAB BAR AND CONNECTIONS SHALL HAVE STRENGTH TO ALLOW 250 LB HORIZONTAL OR VERTICAL POINT FORCE.
2. TOILET PAPER AND FEMININE NAPKIN DISPENSERS LOCATED AT THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL SHALL NOT PROJECT MORE THAN THE GRAB BAR. THE ACCESSORY SHALL NOT BE LOCATED CLOSER THAN 1 1/2" CLEAR OF THE TANGENT POINT OF THE GRAB BAR.



TYPICAL ACCESSORY ELEVATION HEIGHTS

DIMENSIONS IN INCHES

	A
a) TOILET CENTERLINE FROM WALL	17 1/2"
b) TOILET SEAT HEIGHT TO TOP OF SEAT	18"
c) GRAB BAR HEIGHT (TO TOP SURFACE)	34 1/2"
d) TOILET PAPER DISPENSER HEIGHT	19" MIN.
e) TOILET PAPER IN FRONT OF TOILET	8"
f) NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.
g) DISPENSER HEIGHT	40" MAX.
h) MIRROR HEIGHT (OVER A LAVATORY)	39"
i) MIRROR HEIGHT (ISOLATED MIRROR)	34"
j) LAVATORY/SINK TOP HEIGHT	34" MAX.
k) LAVATORY APRON CLEARANCE	29" MIN.
l) LAVATORY/SINK KNEE CLEARANCE	27" MIN.
m) URINAL LIP HEIGHT	16"
n) URINAL, TOILET FLUSH HANDLE HEIGHT	43"
o) DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
p) DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
q) RAMP/STAIR HANDRAIL HEIGHT	36"

A = ADULT DIMENSIONS (AGE 12 AND OVER)
(MIDDLE SCHOOL & HIGH SCHOOL)

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TYPICAL ACCESSIBLE PLUMBING FIXTURES

NOTES

1. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA AS INDICATED AND 36" MAXIMUM ABOVE FINISH LOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5-POUNDS.
2. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
3. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT EQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5-POUNDS. LEVER OPERATED, PUSH TYPE AND LECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
4. A GRAB BAR OR ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
5. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
6. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.
7. WHERE LOCKERS ARE PROVIDED FOR PUBLIC, CLIENTS, EMPLOYEES, MEMBERS OR PARTICIPANTS, AT LEAST ONE AND NOT LESS THAN FIVE PERCENT OF ALL LOCKERS SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED. A PATH OF TRAVEL NOT LESS THAN 36-INCHES IN CLEAR WIDTH SHALL BE PROVIDED TO THESE LOCKERS.
8. THE DRINKING FOUNTAIN SHALL BE ACTIVATED BY A CONTROL WHICH IS EASILY OPERATED BY A DISABLED PERSON SUCH AS A HAND OPERATED LEVER TYPE CONTROL LOCATED WITHIN 6-INCHES OF THE FRONT OF THE DRINKING FOUNTAIN. THE SPOUT SHALL BE LOCATED 15-INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5-INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS, AND SHALL BE 36-INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE WATER STREAM FROM THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MIN. AND BE SUBSTANTIALLY PARALLEL TO THE FRONT OF THE DRINKING FOUNTAIN.
9. ROUGH-IN FOR FIXTURES, EQUIPMENT, AND APPLIANCES SHALL BE AS INDICATED ON DRAWINGS AND AS SPECIFIED, INCLUDING THOSE ITEMS INDICATED AS FURNISHED BY OTHERS, FURNISHED BY OWNER, OR FUTURE CAPACITY. WHEN CONNECTIONS TO EQUIPMENT FROM CAPPED OR PLUGGED LINES ARE REQUIRED, CAPS OR PLUGS SHALL BE REMOVED AT TIME EQUIPMENT IS SET AND STOPS OR VALVES INSTALLED AND CONNECTIONS PROVIDED AS SPECIFIED.
10. UNLESS OTHERWISE INDICATED, FIXTURES SHALL BE INSTALLED WITH 5/16" BRASS BOLTS OR SCREWS OF SUFFICIENT LENGTH TO SECURE FIXTURE TO BACKING, WALL OR CLOSET RINGS.
11. FIXTURES INSTALLED AGAINST CONCRETE OR MASONRY WALLS SHALL HAVE THEIR HANGERS FASTENED WITH THE 5/16" BOLTS, PHILIP SHIELD TYPE ANCHORS, OR 2 UNIT CINCH ANCHORS. WOOD OR PLASTIC PLUGS ARE NOT PERMITTED.
12. BACKING FOR HANGING OF PLUMBING FIXTURE AND EQUIPMENT SHALL BE INSTALLED IN SUPPORTING WALL AT TIMES ROUGH PIPING IS INSTALLED.

13A. FOR WOOD STUDS USE STEEL PLATE 1/4" THICK, NOT LESS THAN 4 TO 6 INCHES WIDE STEEL PLATE SHALL BE ATTACHED TO STUD AT EACH END OF PLATE TO EACH STUD IT CROSSES. PLATE SHALL HAVE 2 PRE-DRILLED 1/8" HOLES FOR No.14 FLAT HEAD SCREWS 2 INCHES IN LENGTH FROM EACH STUD.

13B. FOR METAL STUDS USE STEEL PLATE 1/4" THICK, NOT LESS THAN 4 INCHES WIDE STEEL PLATE SHALL BE ATTACHED TO STUD AT EACH END OF PLATE TO EACH STUD IT CRESSES. PLATE SHALL BE \ ATTACHED TO METAL STUDS BY BOLTING WITH TWO 1/4" "U BOLTS" PER STUD WITH BOLTS THROUGH PLATE AND AROUND STUD FLANGE OR BY WELDING WITH 1/8" FILLET WELD FULL WIDTH OF STUD FLANGE, TOP AND BOTTOM OF PLATE.

14. PIPING SHALL BE STUBBED OUT TO EXACT LOCATION OF FIXTURES AND STUBS SHALL BE INSTALLED SYMMETRICAL WITH FIXTURES. HOT AND COLD WATER SUPPLIES FOR CENTER SET FAUCETS ON LAVATORIES SHALL BE INSTALLED ON 8 INCH CENTERS, UNLESS OTHER WISE SPECIFIED OR REQUIRED.

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

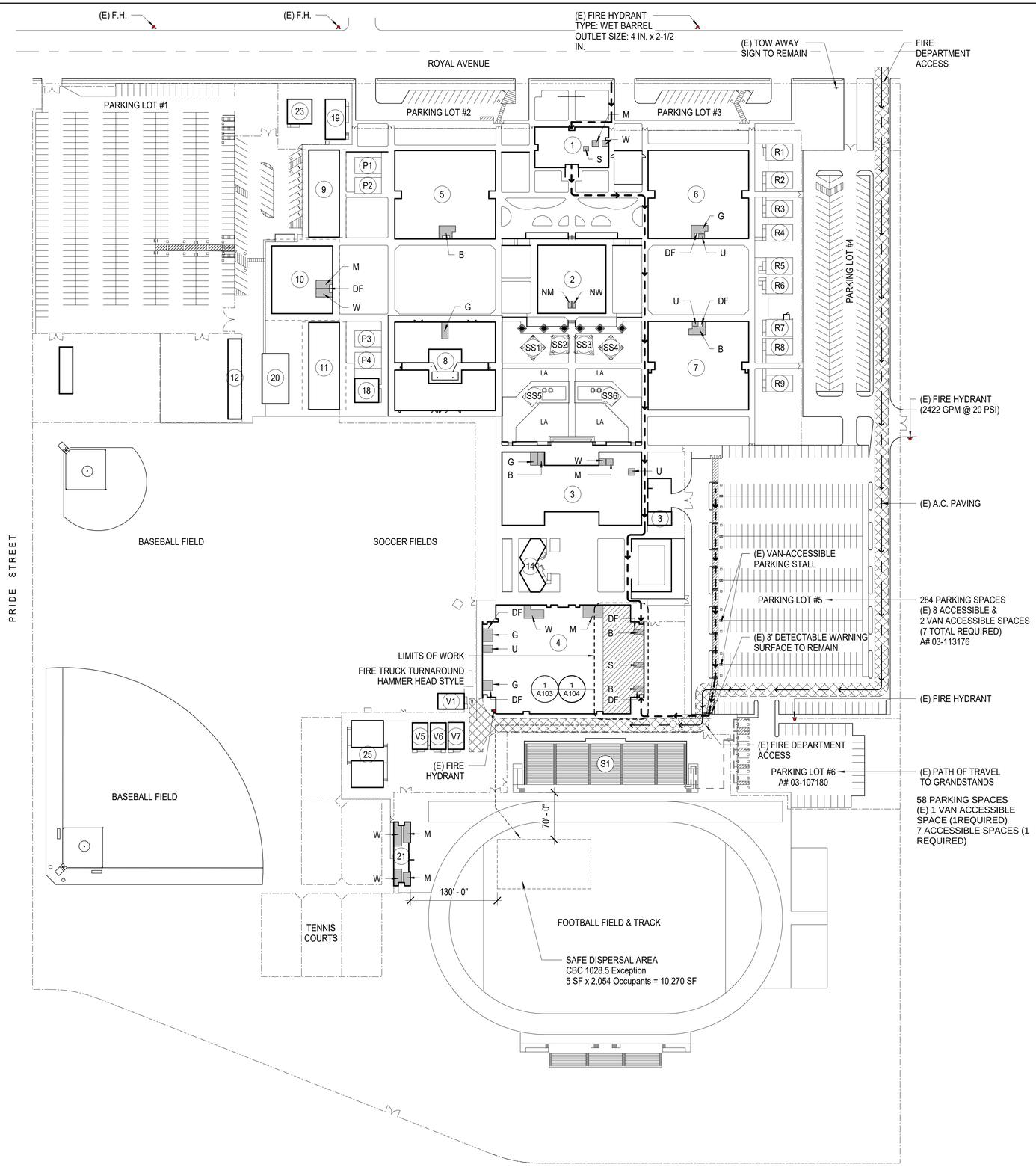
REVISIONS		DATE: 09.10.2020
05.15.2020 DSA_V1 SUBMITTAL		
09.10.2020 DSA_V2 SUBMITTAL		DRAWN: PVP
		CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

ACCESSIBILITY NOTES AND DETAILS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

G003

___ OF ___



1 SITE PLAN
1" = 80'-0"

SITE LEGEND

1. EXISTING ADMINISTRATION BUILDING (A#27167) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
2. EXISTING LIBRARY BUILDING (A#27167) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
3. EXISTING MULTI-PURPOSE BUILDING (A#27167) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED ADDITION TO MULTI-PURPOSE BUILDING (A#03-118787)
4. EXISTING GYMNASIUM BUILDING (A#27167) - CLOSED AND CERTIFIED TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED BOYS RESTROOMS REMODEL (A#03-113176) - CLOSED AND CERTIFIED GIRLS RESTROOMS & LOCKER ROOM REMODEL (A#03-117455) - CLOSED AND CERTIFIED
5. EXISTING CLASSROOM BUILDING (A#28341)
6. EXISTING CLASSROOM BUILDING (A#27167)
7. EXISTING CLASSROOM BUILDING (A#27167)
8. EXISTING CLASSROOM BUILDING (A#27167)
9. EXISTING CLASSROOM BUILDING (A#28341)
10. EXISTING CLASSROOM BUILDING (A#27167)
11. EXISTING CLASSROOM BUILDING (A#28341)
12. EXISTING SERVICE BUILDING (N.I.C.)
14. EXISTING STUDENT SERVICES BUILDING (A#58655)
18. EXISTING CLASSROOM BUILDING (A#58776)
19. EXISTING CLASSROOM BUILDING (A#408741)
20. EXISTING CLASSROOM BUILDING (A#408741)
21. EXISTING TOILET/SNACK BAR BUILDING (A#03-115617) - CLOSED AND CERTIFIED
23. EXISTING YMCA BUILDING (N.I.C.)
25. WEIGHT ROOM BUILDING (A#03-112439) - CLOSED AND CERTIFIED
- R1 EXISTING CLASSROOM BUILDING (A#03-106116) - CLOSED AND CERTIFIED TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- R2 EXISTING CLASSROOM BUILDING (A#65632) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- R3 EXISTING CLASSROOM BUILDING (A#65632) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- R4 EXISTING CLASSROM BUILDING (A#65632) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- R5 EXISTING CLASSROOM BUILDING (A#03-105265) - CLOSED AND CERTIFIED TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- R6 EXISTING CLASSROOM BUILDING (A#03-105265) - CLOSED AND CERTIFIED TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- R7 EXISTING CLASSROOM BUILDING (A#03-65632) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- R8 EXISTING CLASSROOM BUILDING (A#03-65632) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- R9 EXISTING CLASSROOM BUILDING (A#03-65632) TECHNOLOGY AND UTILITY UPGRADE (A#03-107180) - CLOSED AND CERTIFIED
- V1 EXISTING CLASSROOM BUILDING (A#03-115617) - CLOSED AND CERTIFIED
- V5 EXISTING CLASSROOM BUILDING (A#03-115617) - CLOSED AND CERTIFIED
- V6 EXISTING CLASSROOM BUILDING (A#03-115617) - CLOSED AND CERTIFIED
- V7 EXISTING CLASSROOM BUILDING (A#03-115617) - CLOSED AND CERTIFIED
- S1 EXISTING STADIUM BLEACHERS (A#62405)
- P1 EXISTING CLASSROOM BUILDING (A#03-108014) - CLOSED NOT CERTIFIED
- P2 EXISTING CLASSROOM BUILDING (A#03-108014) - CLOSED NOT CERTIFIED
- P3 EXISTING CLASSROOM BUILDING (A#03-108014) - CLOSED NOT CERTIFIED
- P4 EXISTING CLASSROOM BUILDING (A#03-108014) - CLOSED NOT CERTIFIED
- SS1 EXISITNG SHADE STRUCTURE (A#03-117467) - CLOSED AND CERTIFIED
- SS2 EXISITNG SHADE STRUCTURE (A#03-117467) - CLOSED AND CERTIFIED
- SS3 EXISITNG SHADE STRUCTURE (A#03-117467) - CLOSED AND CERTIFIED
- SS4 EXISITNG SHADE STRUCTURE (A#03-117467) - CLOSED AND CERTIFIED
- SS5 EXISITNG SHADE STRUCTURE (A#03-117467) - CLOSED AND CERTIFIED
- SS6 EXISITNG SHADE STRUCTURE (A#03-117467) - CLOSED AND CERTIFIED

LEGEND

G	ACCESSIBLE GIRLS TOILET
B	ACCESSIBLE BOYS TOILET
W	ACCESSIBLE WOMENS TOILET
M	ACCESSIBLE MENS TOILET
U	ACCESSIBLE STAFF UNISEX TOILET
S	ACCESSIBLE STUDENT TOILET
DF	ACCESSIBLE HI-LOW DRINKING FOUNTAINS
NG	NON-ACCESSIBLE GIRLS TOILET
NB	NON-ACCESSIBLE BOYS TOILET
NW	NON-ACCESSIBLE WOMENS TOILET
NM	NON-ACCESSIBLE MENS TOILET
NS	NON-ACCESSIBLE STAFF TOILET
LA	LAWN AREA
	PATH OF TRAVEL
	(E) PATH OF TRAVEL TO GRANDSTANDS
	FIRE TRUCK ACCESS MIN. 20' WIDE, 13' - 6" HEIGHT
F.H.	FIRE HYDRANT
	AREA OF WORK
	SAFE DISPERSAL AREA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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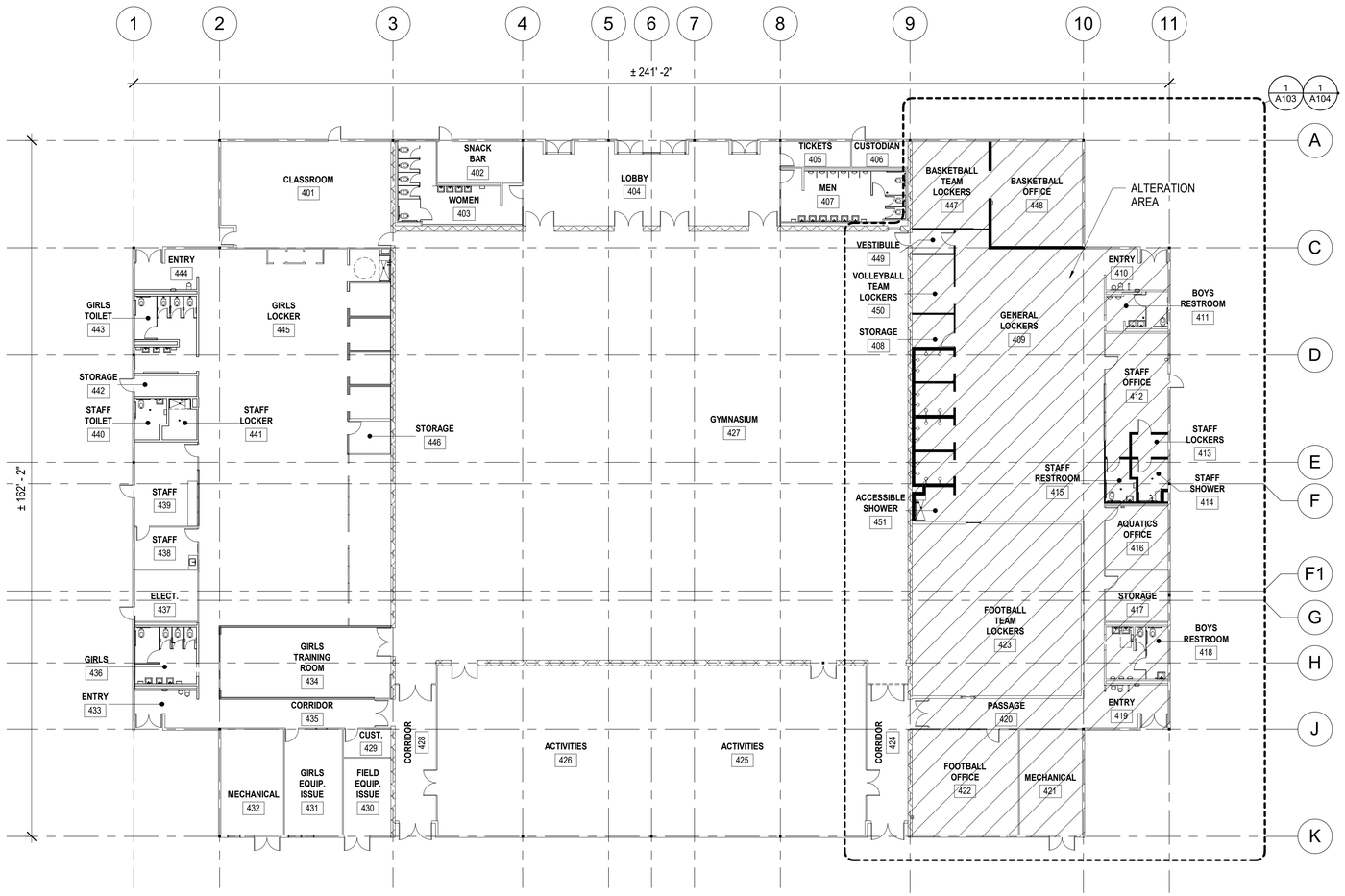
REVISIONS	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09.10.2020
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: PVP
		CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

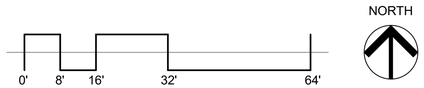
SITE PLAN

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

A101
___ OF ___



1 EXISTING FLOOR PLAN - OVERALL BUILDING
1/16" = 1'-0"



AMADOR WHITTLE
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APRIL 30, 2021
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ROYAL HIGH SCHOOL -
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FLOOR PLAN

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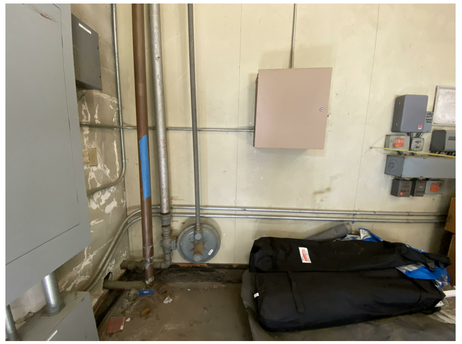
A102

___ OF ___



MECHANICAL ROOM
INTERIOR WALL TO FOOTBALL OFFICE

2

MECHANICAL ROOM
INTERIOR WALL TO FOOTBALL OFFICE

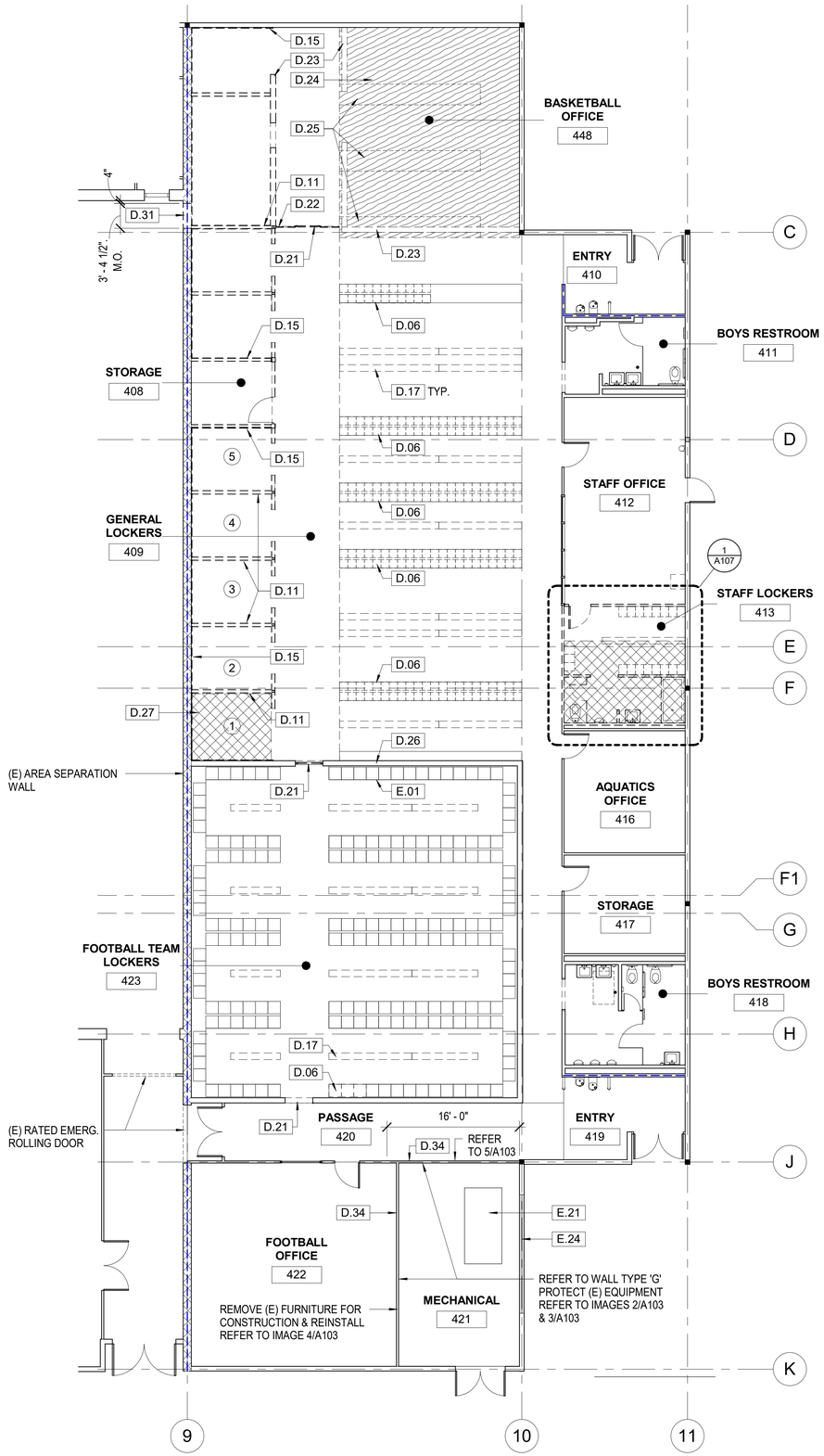
3

PASSAGEWAY LOCKER ROOM

5

FOOTBALL OFFICE

4



1 ENLARGED FLOOR PLAN - DEMOLITION
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

DEMOLITION KEYNOTES

D.06 DEMOLISH (E) LOCKERS
D.11 DEMOLISH (E) LOW WALL - METAL STUD AND CERAMIC TILE.
D.15 DEMOLISH (E) CERAMIC TILE
D.17 DEMOLISH (E) BENCH
D.21 DEMOLISH (E) WIRE MESH GATE
D.22 DEMOLISH (E) WIRE MESH
D.23 DEMOLISH (E) CMU WALL
D.24 DEMOLISH (E) WOOD FLOOR PLATFORM
D.25 DEMOLISH (E) CURB
D.26 DEMOLISH (E) WIRE MESH ABOVE CMU WALL
D.27 DEMOLISH (E) CONC. SLAB FOR (N) 4" DEPRESSED CONC. SLAB
D.31 CUT-OUT (E) 12" CMU WALL FOR (N) OPENING OF 3'-4 1/2"w BY 7'-2 1/4"h
D.34 DEMOLISH (E) INSIDE FINISH (ONE SIDE) FOR INSERTION OF NEW FULL HEIGHT STUD WALL

EXISTING KEYNOTES

E.01 (E) LOCKERS TO REMAIN IN SAME LOCATION, REMOVE & REINSTALL AS WORK REQUIRED, TYP.
E.21 (E) CONCRETE PAD TO REMAIN - PATCH AS NEEDED
E.24 DISTRICT WILL DEMOLISH AND REPLACE (E) LOUVERS

LEGEND

(D) WOOD FLOOR PLATFORM
(D) EXISTING CONCRETE SLAB
(D) EXISTING WALL
(E) WALL TO REMAIN
(E) 1 HOUR FIRE RATED WALL TO REMAIN
(E) 4 HOUR FIRE RATED WALL TO REMAIN

GENERAL NOTES

1. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
2. SEE SHEET A106 FOR FINISHES PLAN.
3. SEE SHEET A601 FOR FINISHES SCHEDULE (DEMO (E) FINISH & PROVIDE NEW FINISH).
4. SEE SHEET S000 MECHANICAL PAD DETAILS

NORTH
0' 4' 8' 16' 32'

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
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C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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ENLARGED FLOOR PLAN - DEMOLITION

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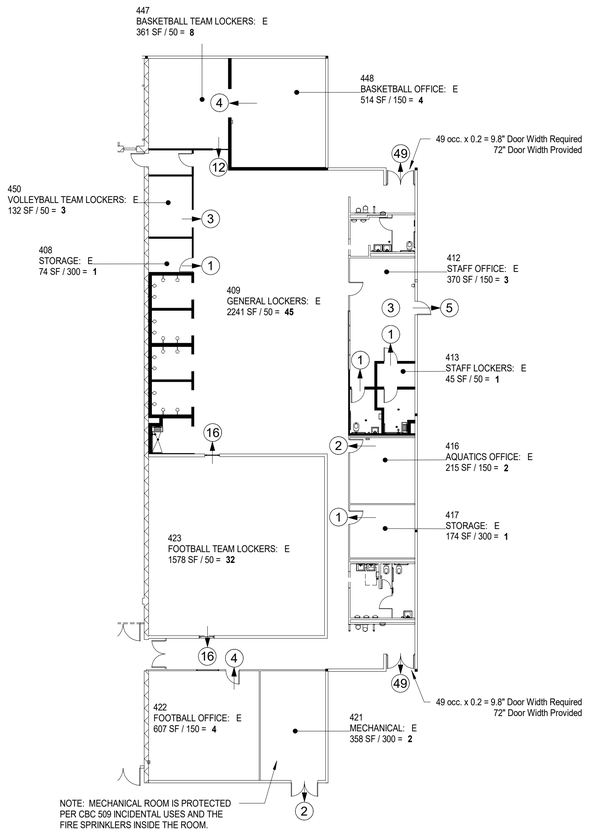
A103

___ OF ___

EXITING CALCULATIONS

ROOM #	USE OF ROOM		FLOOR AREA	OCCUPANT FACTOR	# OF OCCUPANTS	# OF EXITS REQ'D
408	STORAGE	E	74 SF	300	1	1
409	GENERAL LOCKERS	E	2241 SF	50	45	1
412	STAFF OFFICE	E	370 SF	150	3	1
413	STAFF LOCKERS	E	45 SF	50	1	1
416	AQUATICS OFFICE	E	215 SF	150	2	1
417	STORAGE	E	174 SF	300	1	1
421	MECHANICAL	E	358 SF	300	2	1
422	FOOTBALL OFFICE	E	607 SF	150	4	1
423	FOOTBALL TEAM LOCKERS	E	1578 SF	50	32	1
447	BASKETBALL TEAM LOCKERS	E	361 SF	50	8	1
448	BASKETBALL OFFICE	E	514 SF	150	4	1
450	VOLLEYBALL TEAM LOCKERS	E	132 SF	50	3	1
12						

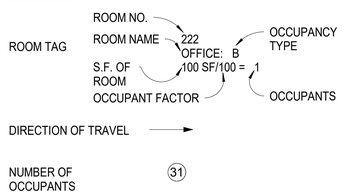
TOTAL OCCUPANT LOAD = 106

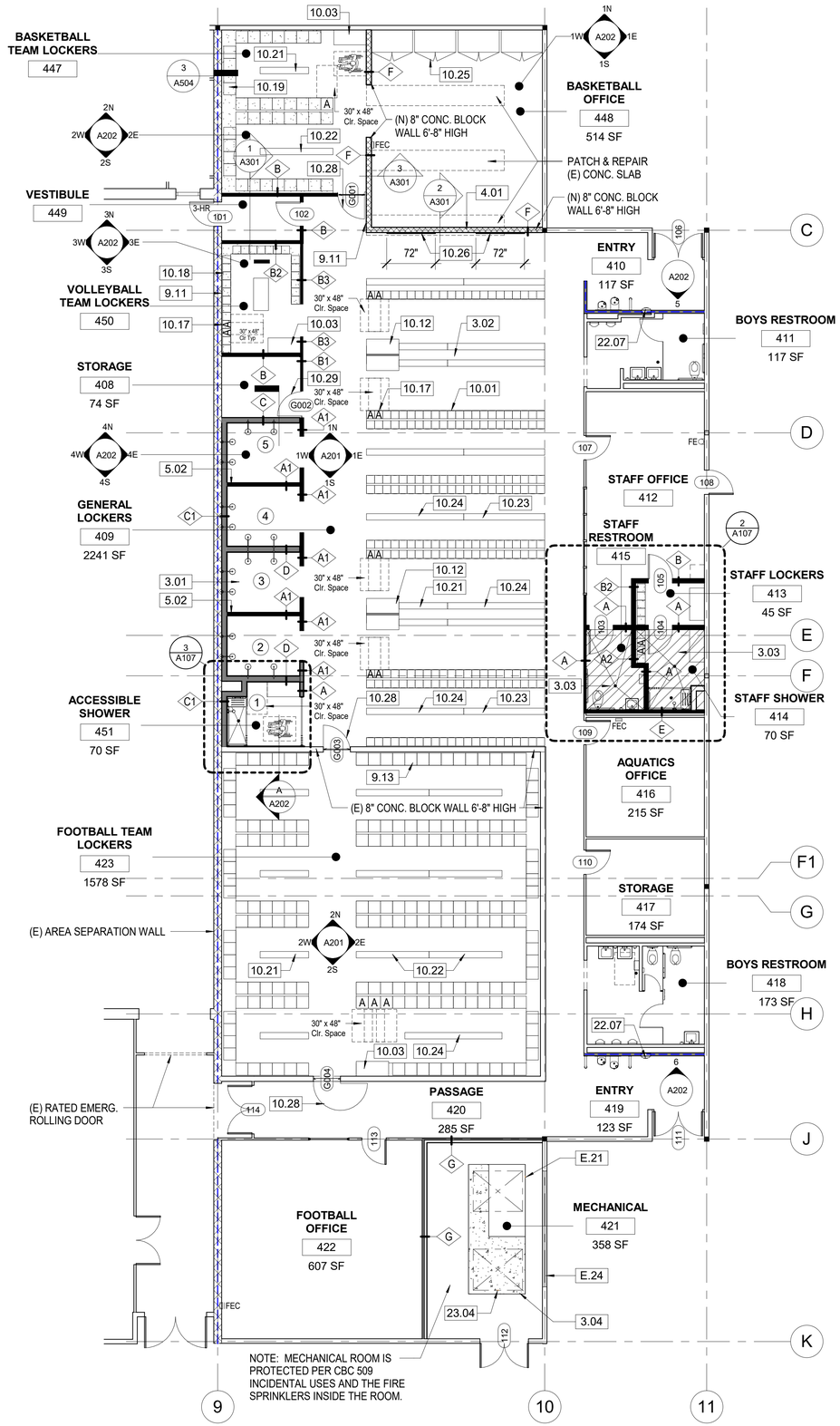


2 EXITING DIAGRAM

1/16" = 1'-0"

LEGEND





1 ENLARGED FLOOR PLAN - NEW

1/8" = 1'-0"

EXISTING KEYNOTES

E.21 (E) CONCRETE PAD TO REMAIN - PATCH AS NEEDED
E.24 DISTRICT WILL DEMOLISH AND REPLACE (E) LOUVERS

KEYNOTES

3.01 3000 PSI CONCRETE FILL TO RAISE FLOOR FLUSH TO LOCKER ROOM, SEE STRUCTURAL 6/S0.10
3.02 (N) 4" CONCRETE CURB BELOW LOCKERS
3.03 (N) 4" DEPRESSED CONCRETE SLAB
3.04 (N) CONCRETE PAD, SEE STRUCTURAL
4.01 (N) 8" CONCRETE BLOCK WALL
5.02 (N) 4" METAL STUD WALL WITH TILES ON BOTH SIDES
9.11 (N) CEMENT PLASTER SKIM COAT OVER (E) CMU WALL
9.13 PAINT (E) LOCKERS
10.01 (N) 12" x 12" X 72" LOCKER ON CONCRETE CURB
10.03 (N) 22" X 48" BENCH
10.12 (N) 22" X 48" BENCH WITH BACK
10.17 (N) ACCESSIBLE LOCKER
10.18 (N) 12" X 12" X 48" LOCKER ON CONCRETE CURB
10.19 (N) 18" X 18" X 72" LOCKER ON CONCRETE CURB
10.21 (N) 10" X 72" BENCH
10.22 (N) 10" X 108" BENCH
10.23 (N) 10" X 120" BENCH
10.24 (N) 10" X 144" BENCH
10.25 (N) 61" X 33" X 78" EXPANDED METAL MESH STORAGE ENCLOSURE BY MANUFACTURER
10.26 (N) 72" X 48" MARKERBOARD
10.28 (N) WIRE MESH GATE WITH LATCH, 6'-8" HIGH
10.29 (N) WIRE MESH GATE WITH LATCH, 8'-0" HIGH
22.07 (E) DRINKING FOUNTAIN PREVIOUSLY REMOVED FOR RELOCATION
23.04 MECHANICAL UNITS, SEE MECHANICAL

LEGEND

(E) WALL TO REMAIN
(E) 1 HOUR FIRE RATED WALL TO REMAIN
(E) 4 HOUR FIRE RATED WALL TO REMAIN
(N) 8" CONCRETE FREESTANDING BLOCK WALL, 6' - 8" HIGH
(N) METAL STUD WALL - SEE WALL TYPES FOR WALL HEIGHT
(N) METAL STUD FREESTANDING OR FURRED PLUMBING WALL, 8' - 0" HIGH
(N) 4" DEPRESSED CONC. SLAB
FE (E) BRACKET MOUNTED FIRE EXTINGUISHER
FEC (N) SURFACE MOUNTED FIRE EXTINGUISHER CABINET
A (N) ACCESSIBLE LOCKER

GENERAL NOTES

1. SEE SHEET G002 FOR LOCKER ANALYSIS.
2. SEE SHEET A505 FOR WALL TYPES AS INDICATED BY X
3. SEE SHEET A601 FOR FINISHES SCHEDULE (DEMO (E) FINISH & PROVIDE NEW FINISH).
4. SEE SHEET A701 AND A702 FOR SIGNAGE PLAN, SCHEDULE AND DETAILS.
5. SURFACE MOUNTED FIRE EXTINGUISHER CABINETS ARE NOT IN PATH OF TRAVEL.

NORTH

0' 4' 8' 16' 32'

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ENLARGED FLOOR PLAN - NEW AND EXITING DIAGRAM

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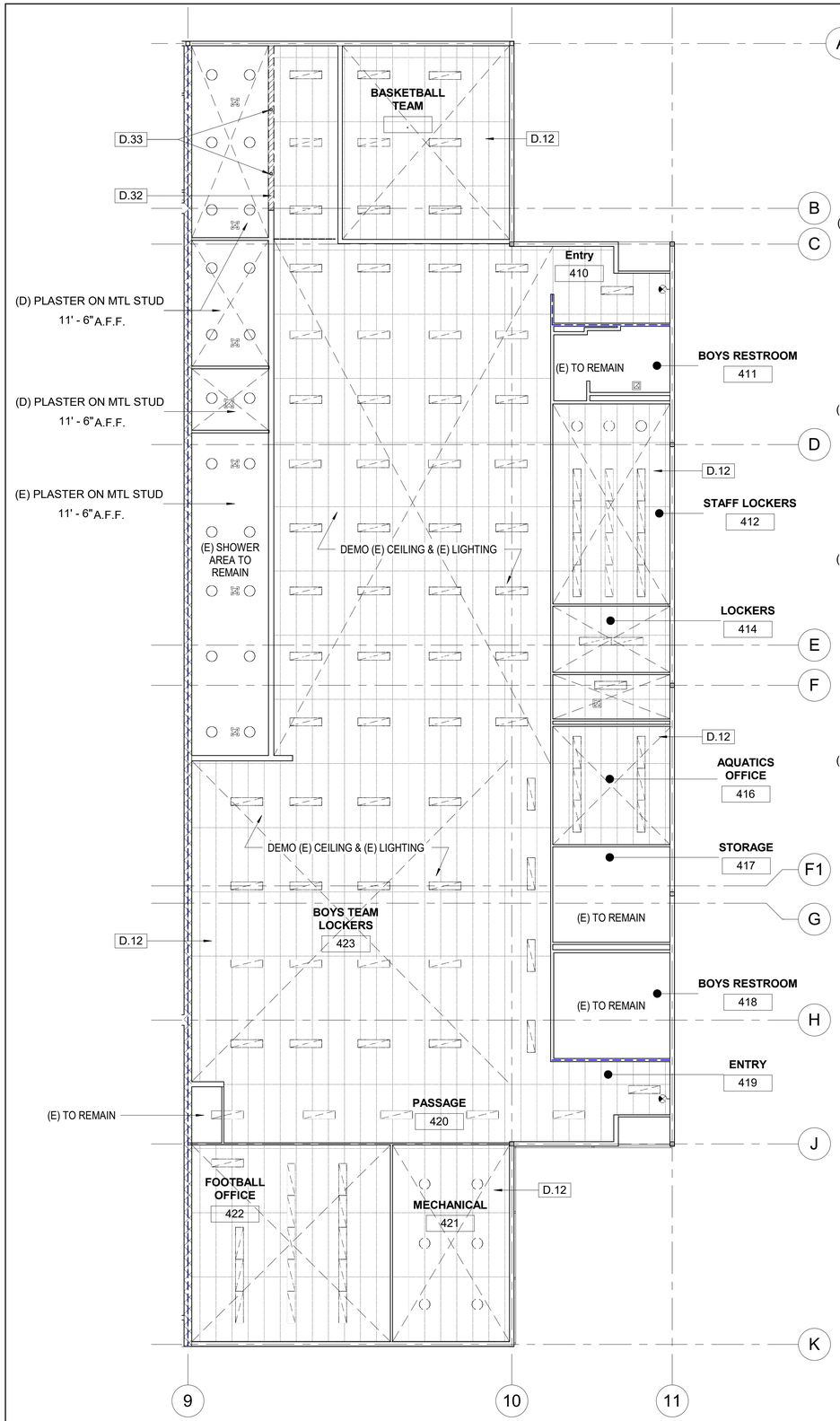
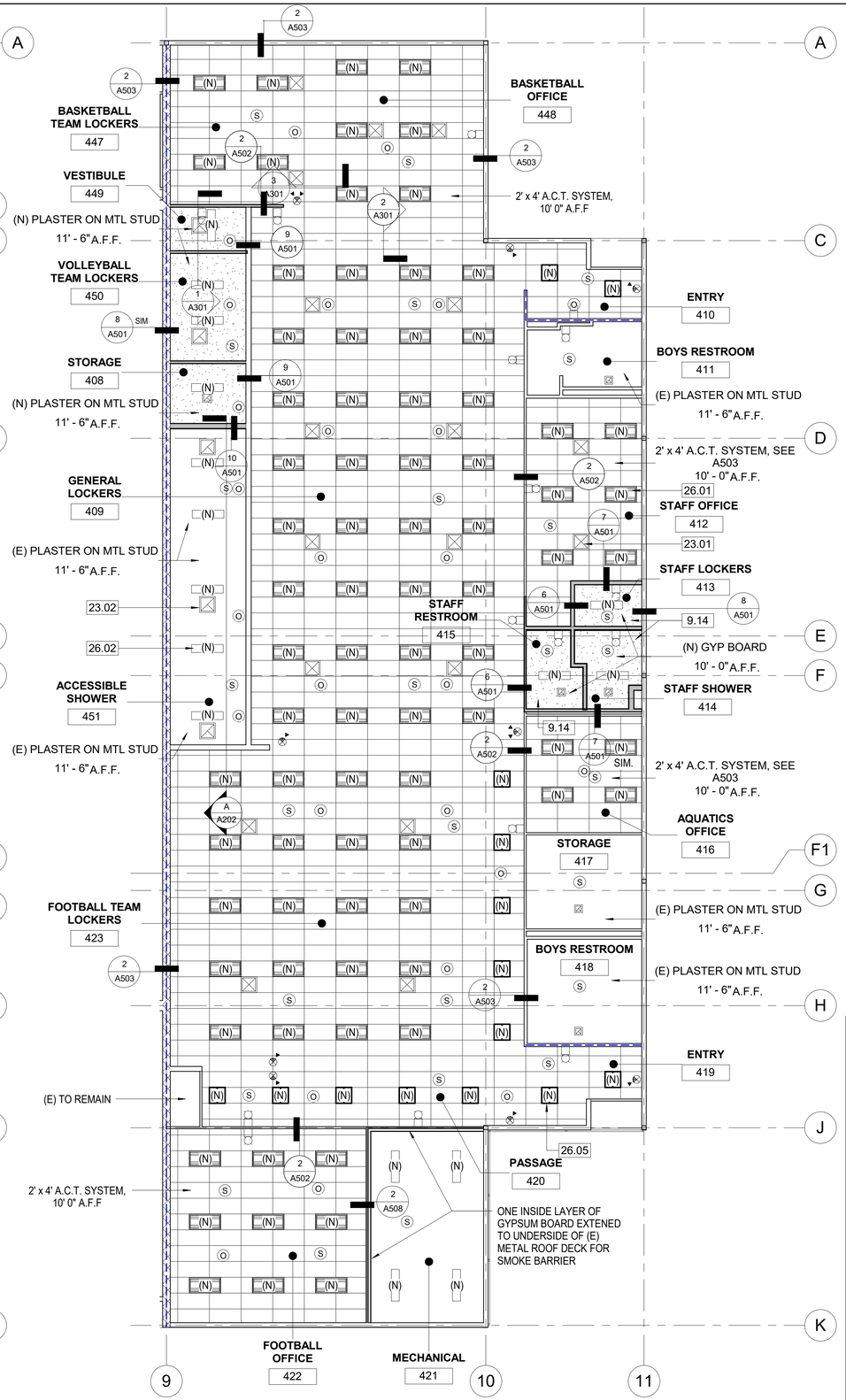
A104

___ OF ___



2 REFLECTED CEILING PLAN - DEMOLITION

1/8" = 1'-0"



1 REFLECTED CEILING PLAN - NEW

1/8" = 1'-0"

DEMOLITION KEYNOTES

D.12 DEMOLISH (E) METAL PAN TILE CEILING & GRID. STORE ALL UNDAMAGED TILE FOR OWNER. DELIVER TO OFFSITE LOCATION.

D.32 DEMOLISH (E) SOFFIT

D.33 DEMOLISH (E) COLUMN

KEYNOTES

9.14 (N) GWB ON METAL STUD CEILING JOIST

23.01 (N) SUPPLY DIFFUSER, SEE MECHANICAL

23.02 EXHAUST GRILLE, SEE MECHANICAL

26.01 (N) RECESSED 2X4 LIGHTING FIXTURE

26.02 (N) 1X4 LIGHTING FIXTURE

26.05 (N) RECESSED 2X2 LIGHTING FIXTURE

CEILING LEGEND

(N) 2' x 4' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM

(N) GYPSUM BOARD ON MTL STUD CEILING JOIST

(N) PLASTER ON MTL STUD ON CEILING JOIST

(N) 2' x 4' RECESSED LED FIXTURE

(N) 1' x 4' SURFACE MOUNTED LED FIXTURE

(N) 2' x 2' RECESSED LED FIXTURE

(N) CEILING MOUNTED OCCUPANCY SENSOR

(N) FULL HEIGHT WALL

DEMOLISH (E) 2' x 4' SURFACE MOUNTED LED FIXTURE

DEMOLISH (E) SOFFIT

DEMOLISH (E) RECESSED OR SURFACE DOWNLIGHT

DEMOLISH (E) ILLUMINATED EXIT LIGHT

(N) CEILING HUNG EXIT SIGN PROVIDE ARROWS AS INDICATED

HVAC - SUPPLY

HVAC - RETURN

HVAC - EXHAUST

(N) SMOKE DETECTOR

(N) HORN/ LIGHT STROBE PER FIRE ALARM DRAWINGS

GENERAL NOTES

1. SEE A502 FOR GENERAL CEILING NOTES AND CEILING INSTALLATION DETAILS.
2. PROVIDE AN ACCESS PANEL IN ALL THE CEILINGS FOR ACCESS TO FIRE SMOKE DEVICES AND OTHER UTILITIES ABOVE THE CEILINGS REQUIRING ACCESS FOR MAINTENANCE.
3. FOR GWB AND PLASTER ON CEILING JOISTS, REFER TO STRUCTURAL DRAWINGS FOR CEILING JOISTS SCHEDULE.
4. FOR PLASTER CONTROL JOINT: PER 100 SF & ARCHITECT'S DIRECTION
5. REPLACE ALL CEILING MOUNTED LIGHT FICTURES.
6. CAREFULLY REMOVE AND PROTECT ALL CEILING MOUNTED FIXTURES TO BE REUSED OR DELIVERED TO OWNER.

0' 4' 8' 16' 32'

NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
LEAH ANN AMADOR
C-32205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

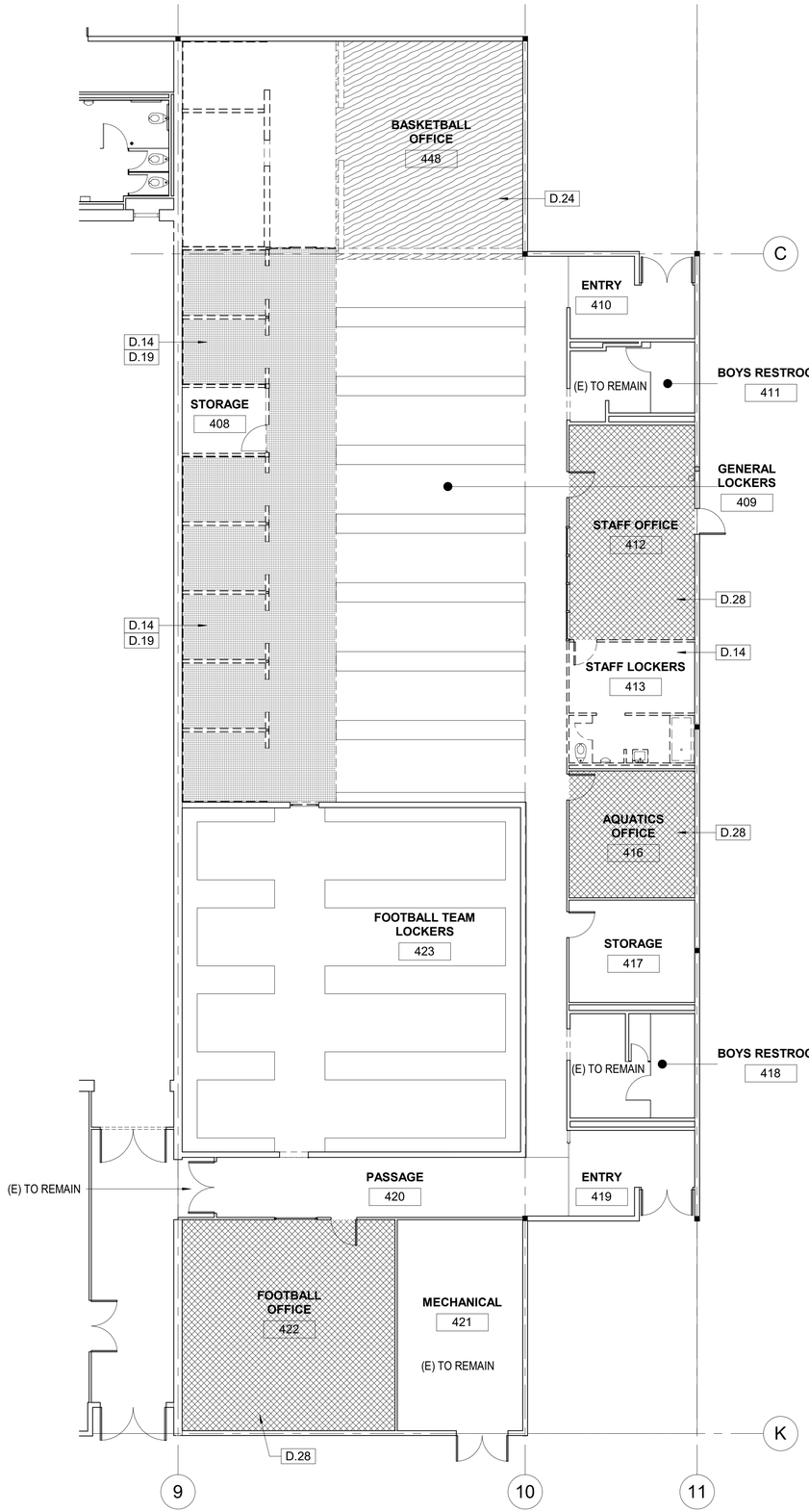
REVISIONS		DATE: 09.10.2020
05.15.2020 DSA_V1 SUBMITTAL		DRAWN: PVP / SAN
09.10.2020 DSA_V2 SUBMITTAL		CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

ENLARGED REFLECTED CEILING PLANS

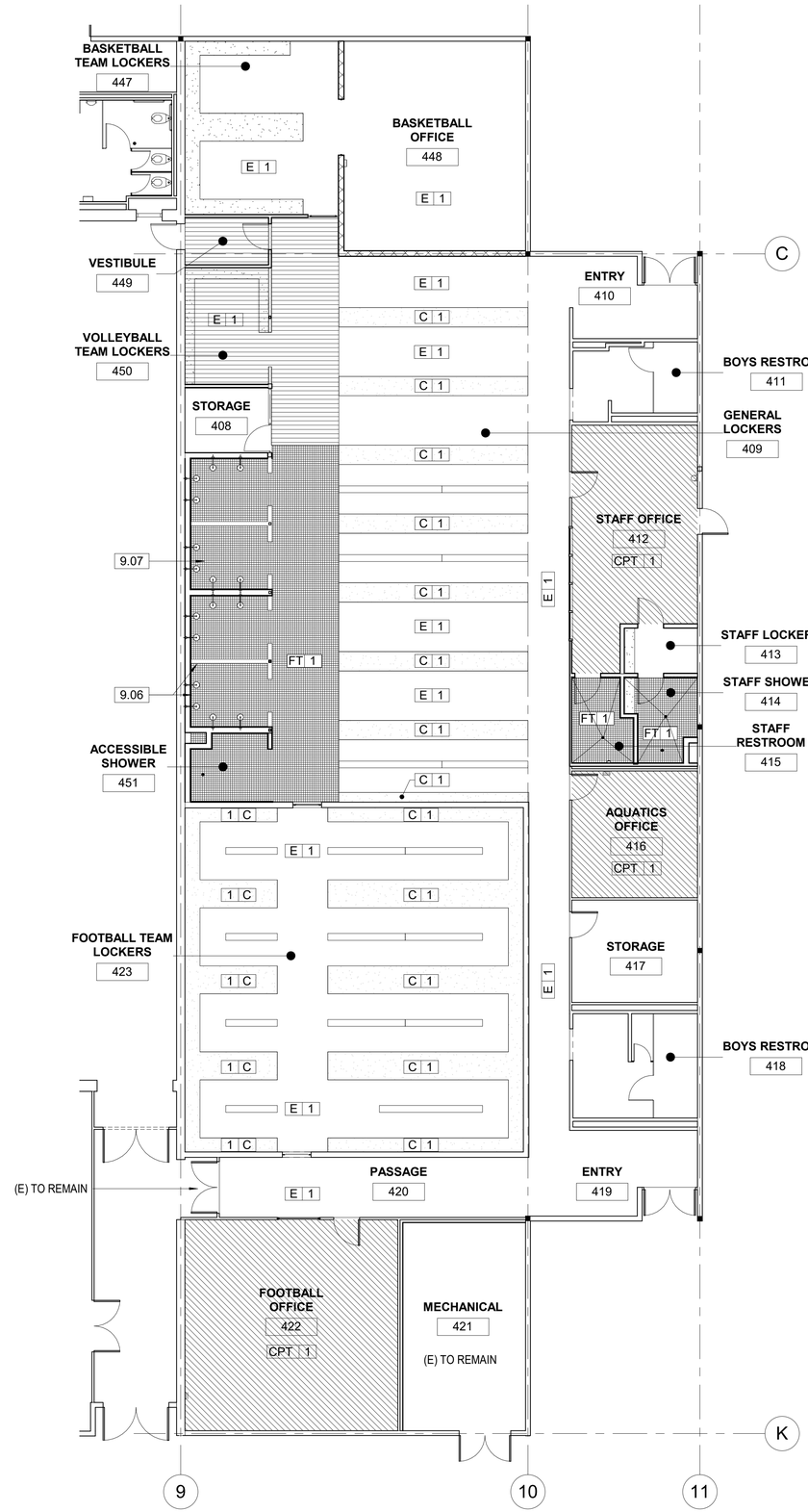
IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

A105

___ OF ___



2 ENLARGED FLOOR FINISHES PLAN - DEMOLITION
1/8" = 1'-0"



1 ENLARGED FLOOR FINISHES PLAN - NEW
1/8" = 1'-0"

DEMOLITION KEYNOTES

D.14 DEMOLISH (E) FLOOR TILE
D.19 REMOVE (E) MORTER BED DOWN TO (E) CONC. SLAB
D.24 DEMOLISH (E) WOOD FLOOR PLATFORM
D.28 REMOVE (E) CARPET

KEYNOTES

9.06 (N) CERAMIC WALL TILE
9.07 (N) FLOOR TILE

C 1 COATING
EP 1 EPOXY FLOOR COATING
FT 1 FLOOR TILE
CPT 1 CARPET

LEGEND

(D) FLOOR TILE OVER DEPRESSED SLAB
(D) CARPET
(D) WOOD FLOOR PLATFORM
(E) CONCRETE CURB
(N) CONCRETE CURB
(N) CARPET
(N) FLOOR TILE OVER (N) MORTAR BED AND (N) 4" DEPRESSED CONCRETE SLAB
(N) CONCRETE - FILL DEPRESED SLAB TO ADJANCENT SLAB - FINISH PER SCHEDULE

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NORTH
0' 4' 8' 16' 32'

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C-22205
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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

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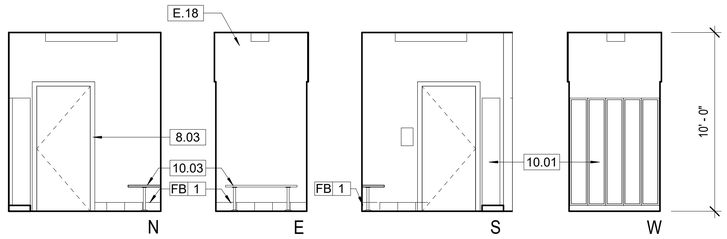
	09.10.2020 DSA_V2 SUBMITTAL	CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

ENLARGED FLOOR FINISHES PLANS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

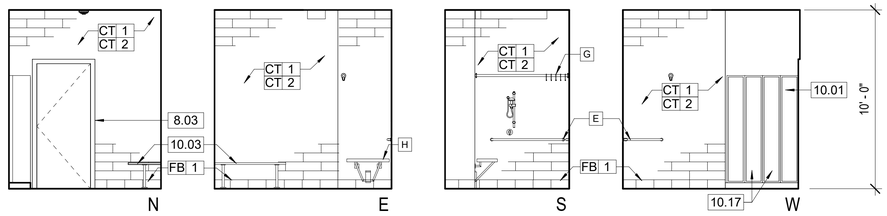
A106

___ OF ___



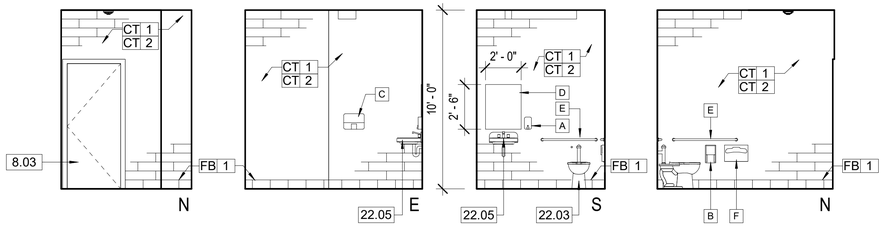
4 STAFF LOCKER ROOM INTERIOR ELEVATIONS (WALLS SHOWN ARE NEW U.N.O.)

1/4" = 1'-0"



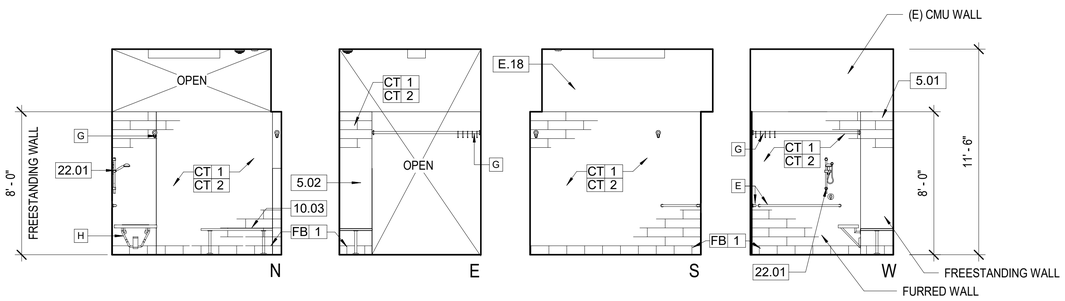
5 STAFF SHOWER INTERIOR ELEVATIONS (WALLS SHOWN ARE NEW U.N.O.)

1/4" = 1'-0"



6 STAFF RESTROOM INTERIOR ELEVATIONS (WALLS SHOWN ARE NEW U.N.O.)

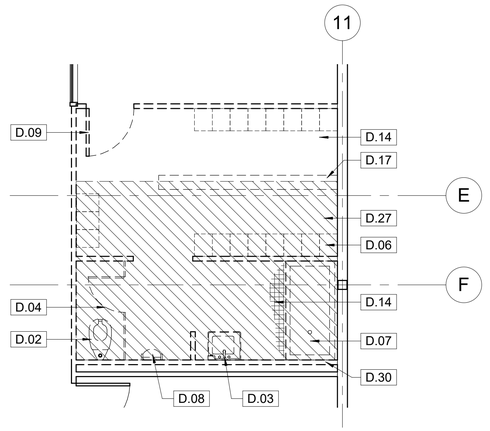
1/4" = 1'-0"



7 ACCESSIBLE SHOWER/CHANGING INTERIOR ELEVATIONS

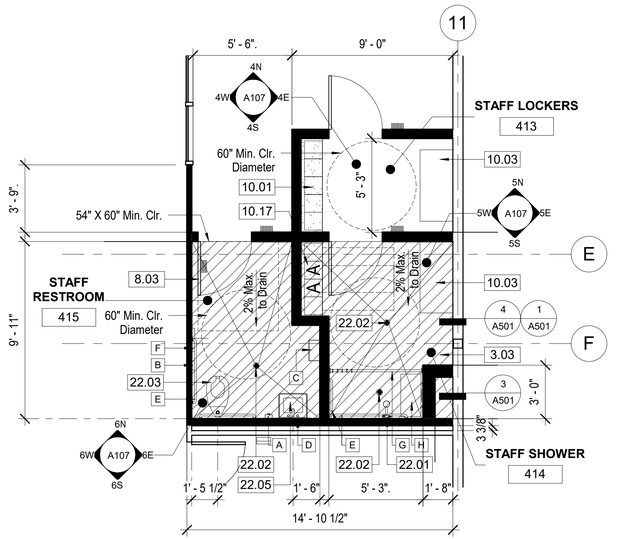
1/4" = 1'-0"

(WALLS SHOWN ARE NEW U.N.O.)



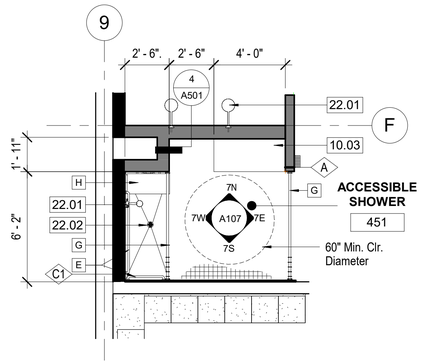
1 ENLARGED STAFF RESTROOM - DEMOLITION

1/4" = 1'-0"



2 ENLARGED STAFF RESTROOM PLAN

1/4" = 1'-0"



3 ENLARGED ACCESSIBLE SHOWER AREA

1/4" = 1'-0"

DEMOLITION KEYNOTES

D.02 DEMOLISH (E) TOILETS, TYP
D.03 DEMOLISH (E) LAVATORIES, TYP.
D.04 DEMOLISH (E) TOILET PARTITIONS
D.06 DEMOLISH (E) LOCKERS
D.07 DEMOLISH (E) SHOWER
D.08 DEMOLISH (E) URINAL
D.09 DEMOLISH (E) DOOR, TYP.
D.14 DEMOLISH (E) FLOOR TILE
D.17 DEMOLISH (E) BENCH
D.27 DEMOLISH (E) CONC. SLAB FOR (N) 4" DEPRESSED CONC. SLAB
D.30 DEMOLISH (E) METAL STUD WALL

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KEYNOTES

3.03 (N) 4" DEPRESSED CONCRETE SLAB
5.01 (N) 4" METAL STUD WALL WITH TILES ON ONE SIDE
5.02 (N) 4" METAL STUD WALL WITH TILES ON BOTH SIDES
8.03 (N) DOOR, SEE DOOR SCHEDULE
10.01 (N) 12" x 12" X 72" LOCKER ON CONCRETE CURB
10.03 (N) 22" X 48" BENCH
10.17 (N) ACCESSIBLE LOCKER
22.01 (N) SHOWER FIXTURE
22.02 (N) FLOOR DRAIN
22.03 (N) ACCESSIBLE WATER CLOSET
22.05 (N) ACCESSIBLE LAVATORY

GENERAL NOTES

1. RESTROOMS SHALL COMPLY WITH ADULT DIMENSIONS PER G002 FOR ACCESS REQUIREMENTS.
2. FLOOR IN RESTROOM SHALL BE SLOPED TO FLOOR DRAINS AT 2% MAXIMUM.
3. SEE SHEET A702 FOR SIGNAGE DETAILS.
4. REFER TO G003 FOR TYPICAL MOUNTING DIMENSIONS FOR TOILET ACCESSORIES.

LEGEND

(D) EXISTING CONCRETE SLAB
(D) EXISTING WALL
(E) WALL TO REMAIN
(N) METAL STUD WALL
(N) METAL STUD FREE STANDING WALL, 8' - 0"
(N) DEPRESSED CONC. SLAB FOR SLOPED FLOOR
A (N) ACCESSIBLE LOCKER

TOILET ACCESSORIES SCHEDULE

A LIQUID SOAP DISPENSER
B TOILET PAPER DISPENSER
C ELECTRIC HAND DRYER
D 20"x30" MIRROR
E STAINLESS STEEL GRAB BAR
F TOILET SEAT COVER DISPENSER
G SHOWER ROD AND CURTAIN
H FOLDING SHOWER SEAT

NORTH

0' 2' 4' 8' 16'

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
JEAN ANN AMADOR
C-27705
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

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AGOURA HILLS, CA 91301
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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS		
05.15.2020 DSA_V1 SUBMITTAL	DATE:	09.10.2020
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	JOB NO:	19-SVUSD-031

ENLARGED STAFF RESTROOM PLAN & INTERIOR ELEVATIONS

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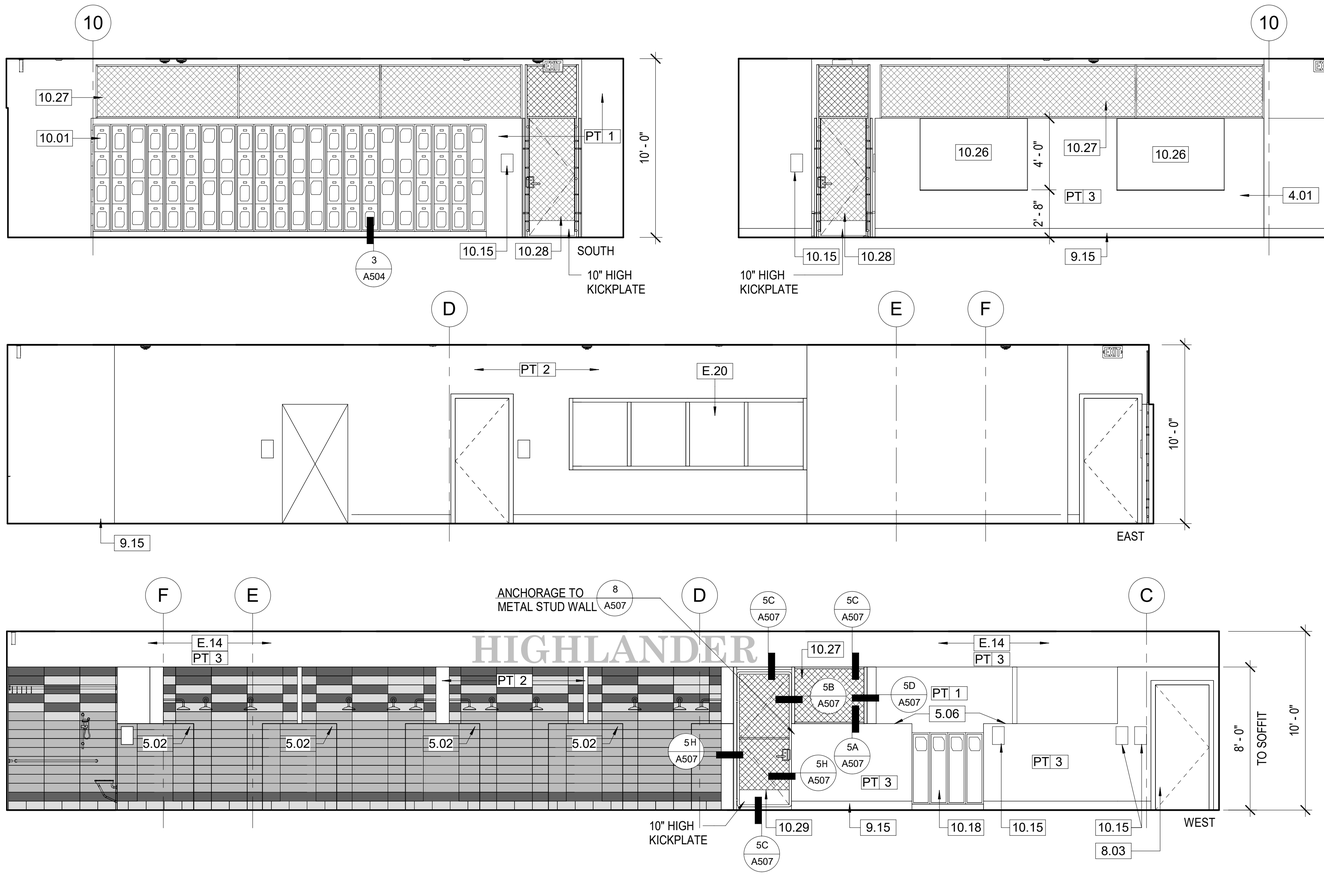
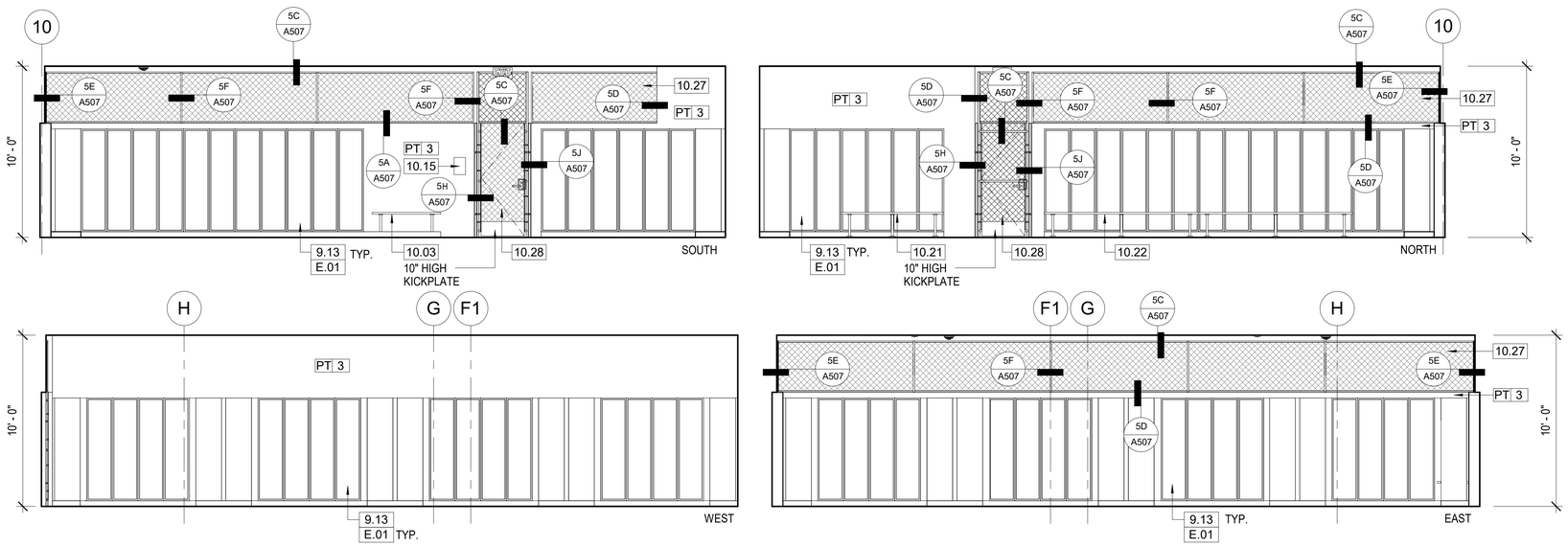
A107

___ OF ___



1 GENERAL LOCKER ROOM INTERIOR ELEVATIONS

1/4" = 1'-0"



2 FOOTBALL LOCKER ROOM INTERIOR ELEVATIONS

1/4" = 1'-0"

0' 2' 4' 8' 16'

EXISTING KEYNOTES

E.01 (E) LOCKERS TO REMAIN IN SAME LOCATION, REMOVE & REINSTALL AS WORK REQUIRED, TYP.
E.14 (E) INTERIOR PLASTER
E.20 (E) WINDOWS

KEYNOTES

4.01 (N) 8" CONCRETE BLOCK WALL
5.02 (N) 4" METAL STUD WALL WITH TILES ON BOTH SIDES
5.06 (N) METAL STUD WALL
8.03 (N) DOOR, SEE DOOR SCHEDULE
9.13 PAINT (E) LOCKERS
9.15 (N) 6" STANDARD TOE RUBBER BASE
10.01 (N) 12" x 12" X 72" LOCKER ON CONCRETE CURB
10.03 (N) 22" X 48" BENCH
10.15 (N) ROOM SIGNAGE, PER 8/A701
10.18 (N) 12" X 12" X 48" LOCKER ON CONCRETE CURB
10.21 (N) 10" X 72" BENCH
10.22 (N) 10" X 108" BENCH
10.26 (N) 72" X 48" MARKERBOARD
10.27 (N) WIRE MESH
10.28 (N) WIRE MESH GATE WITH LATCH, 6'-8" HIGH
10.29 (N) WIRE MESH GATE WITH LATCH, 8'-0" HIGH

CT X WALL TILE
FB X FLOOR BASE TILE
RB X RUBBER BASE
PT X PAINT

LEGEND

PORCELAIN TILES AT BOYS SHOWERS, STAFF SHOWER AND STAFF RESTROOM

6" X 24" DALTILE PORTFOLIO
IRON GREY PF06

6" X 24" DALTILE PORTFOLIO
ASH GREY PF05

6" X 24" DALTILE VOLUME 1.1
RALLY GREEN VL84

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS ☑ FLS ☑ ACS ☑
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ARCHITECTS, INC.

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

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05.15.2020	DSA_V1 SUBMITTAL
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INTERIOR ELEVATIONS

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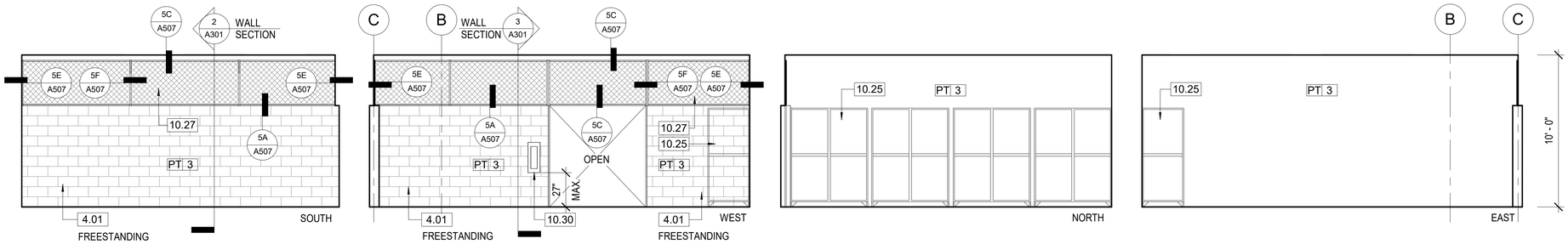
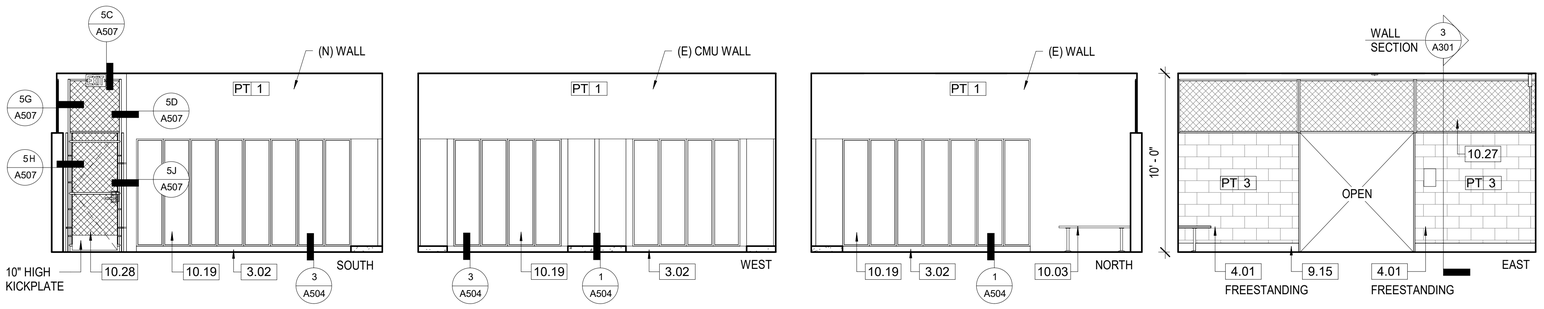
A201

___ OF ___



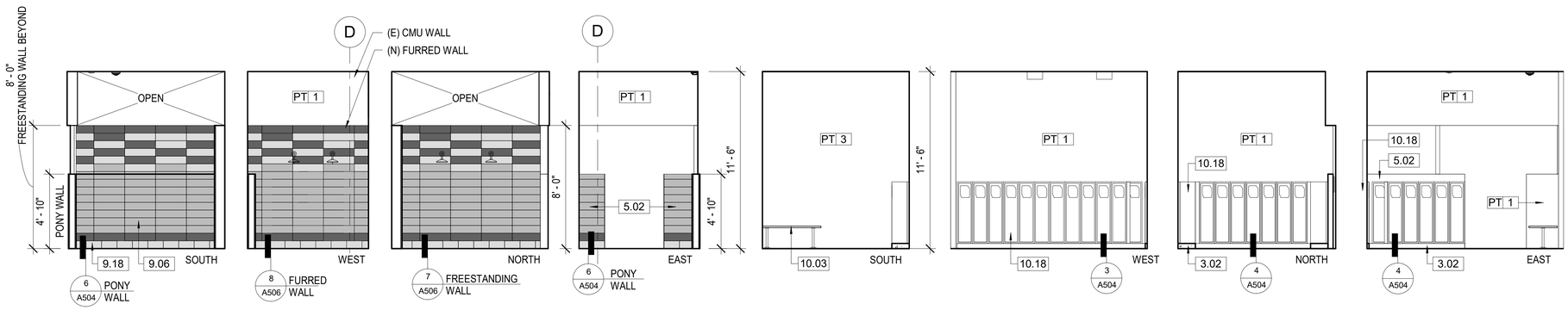
1 BASKETBALL OFFICE INTERIOR ELEVATIONS

1/4" = 1'-0"



2 BASKETBALL LOCKER ROOM INTERIOR ELEVATIONS

1/4" = 1'-0"

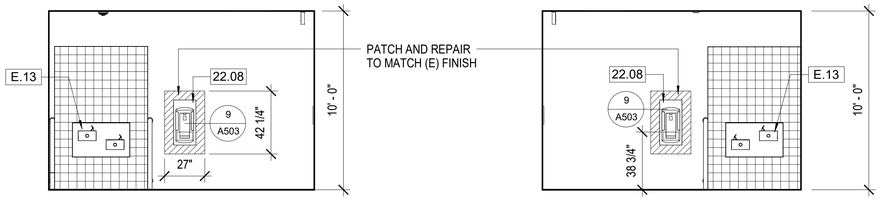


4 TYPICAL SHOWER ROOM INTERIOR ELEVATIONS

1/4" = 1'-0"

3 VOLLEYBALL LOCKER ROOM INTERIOR ELEVATIONS

1/4" = 1'-0"

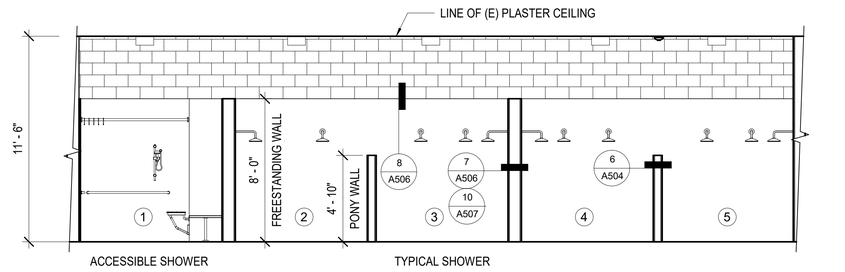


6 ENTRY 419 INT. ELEV.

1/4" = 1'-0"

5 ENTRY 410 INT. ELEV.

1/4" = 1'-0"



A SECTION THRU SHOWER AREAS

1/4" = 1'-0"

0' 2' 4' 8' 16'

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EXISTING KEYNOTES

E.13 (E) HI-LO DRINKING FOUNTAIN

KEYNOTES

3.02 (N) 4" CONCRETE CURB BELOW LOCKERS
4.01 (N) 8" CONCRETE BLOCK WALL
5.02 (N) 4" METAL STUD WALL WITH TILES ON BOTH SIDES
9.06 (N) CERAMIC WALL TILE
9.15 (N) 6" STANDARD TOE RUBBER BASE
9.18 (N) PORCELAIN FLOOR BASE TILE
10.03 (N) 22" X 48" BENCH
10.18 (N) 12" X 12" X 48" LOCKER ON CONCRETE CURB
10.19 (N) 18" X 18" X 72" LOCKER ON CONCRETE CURB
10.25 (N) 61" X 33" X 78" EXPANDED METAL MESH STORAGE ENCLOSURE BY MANUFACTURER
10.27 (N) WIRE MESH
10.28 (N) WIRE MESH GATE WITH LATCH, 6'-8" HIGH
10.30 (N) SURFACE MOUNTED FIRE EXTINGUISHER CABINET, SEE DETAIL 11/A507
22.08 (N) BOTTLE STATION

CT X WALL TILE
FB X FLOOR BASE TILE
RB X RUBBER BASE
PT X PAINT

LEGEND

PORCELAIN TILES AT BOYS SHOWERS, STAFF SHOWER AND STAFF RESTROOM

6" X 24" DALTILE PORTFOLIO
IRON GREY PF06

6" X 24" DALTILE PORTFOLIO
ASH GREY PF05

6" X 24" DALTILE VOLUME 1.1
RALLY GREEN VL84

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LICENSED ARCHITECT JEAN ANN AMADOR C-22205 STATE OF CALIFORNIA
APRIL 30, 2021 RENEWAL DATE

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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

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INTERIOR ELEVATIONS

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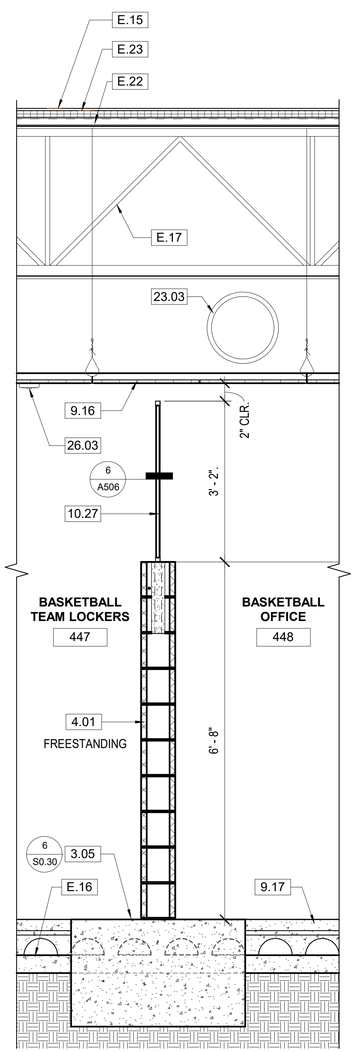
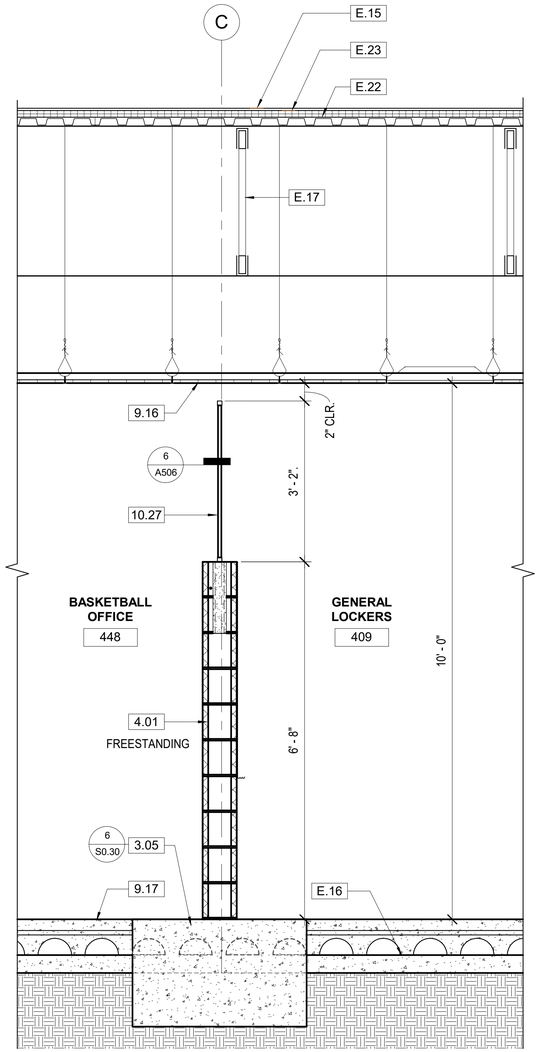
A202

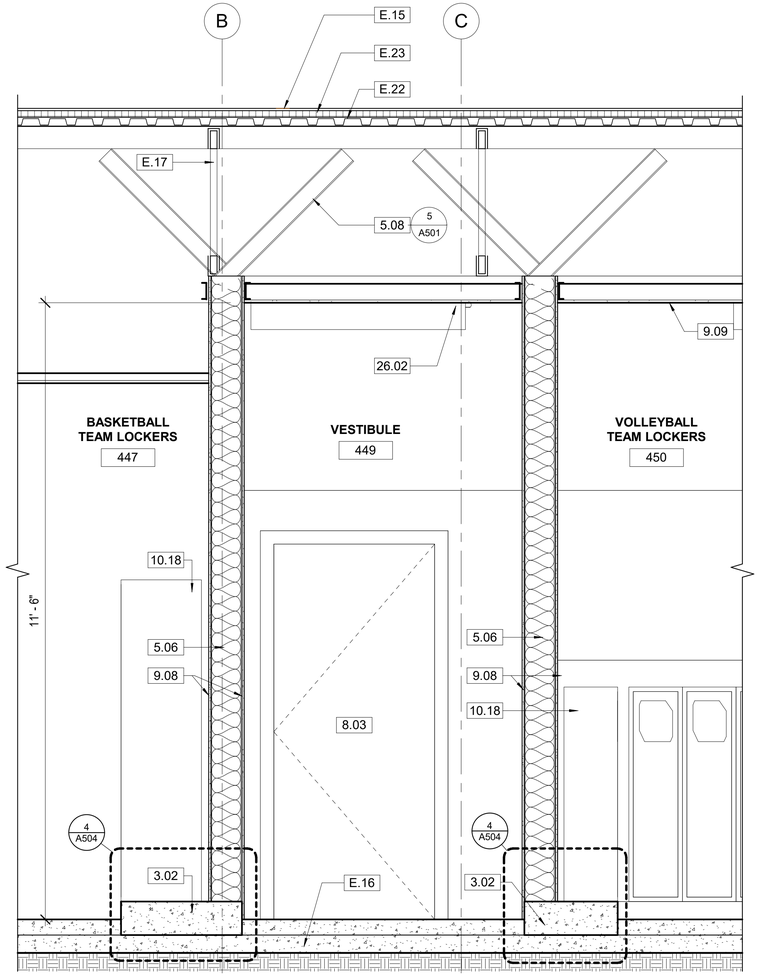
___ OF ___



3 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



1 WALL SECTION
3/4" = 1'-0"

EXISTING KEYNOTES

E.15 (E) BUILT-UP ROOFING
E.16 (E) CONCRETE SLAB
E.17 (E) STEEL ROOF TRUSS
E.22 (E) ROOF METAL DECK
E.23 (E) RIGID INSULATION

KEYNOTES

3.02 (N) 4" CONCRETE CURB BELOW LOCKERS
3.05 (N) CONCRETE FOOTING, SEE STRUCTURAL
4.01 (N) 8" CONCRETE BLOCK WALL
5.06 (N) METAL STUD WALL
5.08 (N) METAL STUD KICKER BRACE
8.03 (N) DOOR, SEE DOOR SCHEDULE
9.08 (N) 5/8" TYPE 'X' GYPSUM BOARD
9.09 (N) INTERIOR PLASTER
9.16 (N) ACOUSTIC CEILING PANELS AND GRID
9.17 PATCH AND REPAIR (E) CONCRETE SLAB
10.18 (N) 12" X 12" X 48" LOCKER ON CONCRETE CURB
10.27 (N) WIRE MESH
23.03 MECHANICAL DUCT PER MECHANICAL
26.02 (N) 1X4 LIGHTING FIXTURE
26.03 (N) OCCUPANCY SENSOR, SEE ELECTRICAL

GENERAL NOTES

1. SEE A502 AND A503 FOR GENERAL CEILING NOTES AND CEILING INSTALLATION DETAILS.
2. FOR PLASTER ON CEILING JOISTS, REFER TO 9/S0.20 FOR CEILING JOISTS SCHEDULE AND DETAILS.

0' 6" 1' 2' 3' 5'

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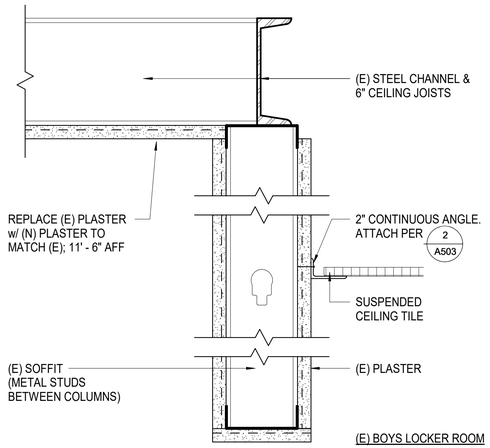
09.10.2020 DSA_V2 SUBMITTAL	DRAWN: MJQ / SAN
	CHECK: MJQ / JAA
	JOB NO: 19-SVUSD-031

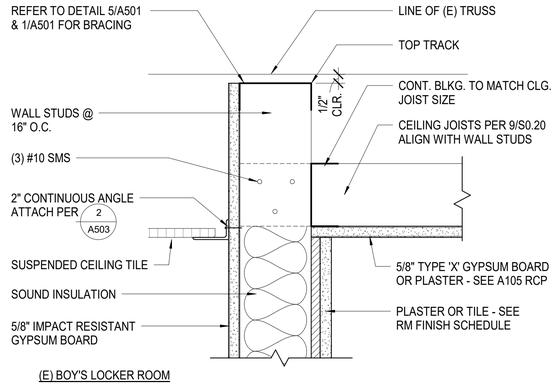
WALL SECTIONS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

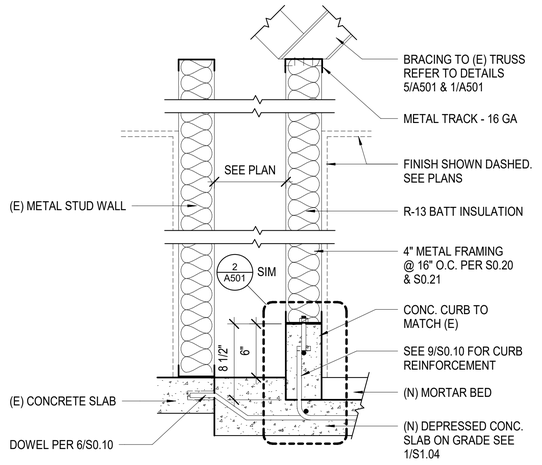
A301
___ OF ___



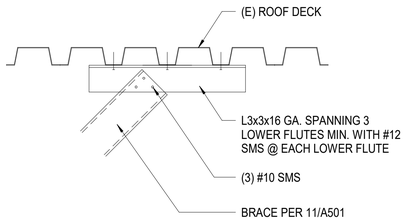
9 CEILING AT SOFFIT
3" = 1'-0"



6 CEILING JOIST PERP TO WALL
3" = 1'-0"



3 WALL ATTACHMENT
1 1/2" = 1'-0"



1 CONNECTION OF BRACE TO ROOF DECK
1 1/2" = 1'-0"

10 CEILING JOISTS
3" = 1'-0"

7 CEILING JOIST PARALLEL
3" = 1'-0"

4 WALL ATTACHMENT
1 1/2" = 1'-0"

2 STUD WALL w/ TILE
3" = 1'-0"

8 CEILING @ (E) WALL
3" = 1'-0"

5 WALL ATTACHMENT
1 1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL -
BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09.10.2020
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: PVP
		CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

DETAILS

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A501

___ OF ___

CEILING NOTES (IR 25-2.13):

1. CEILING SYSTEM GENERAL NOTES:

1.01 Ceiling system components shall comply with ASTM C635-07 and section 5.1 of ASTM E580-10a.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635-08.

1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

HEAVY DUTY NON-RATED GRID SYSTEM	ARMSTRONG PRELUDE PLUS XL	CHICAGO METALLIC 1200 SEISMIC SERIES HEAVY DUTY	USG DONN DXLA
MAIN RUNNER	HD8201	270	DXLA26
CROSS RUNNER (2x4 GRID)	XL8223	1252	DXLA216
CROSS RUNNER	XL8341	1254	DXLA424

1.04 Ceiling panels shall not support any light fixtures, air terminals or devices.

1.05 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 3/4" clearance between the ceiling panel and the wall on the sides of the ceiling free slip.

2. MATERIALS:

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653-11, or other equivalent sheet steel listed in section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07/S2-40).
Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi.
Material 54 mil (16 gage) and heavier shall have minimum yield strength of 50 ksi.

2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)

4. FASTENERS AND WELDING:

4.01 Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Anchors shall be KWIK HUS-EZ 1/4 (3" MIN EMBED.) ICC- ESR # 3027.

4.03 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.

4.04 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING: All field testing must be performed in the presence of the project inspector.

5.01 Post- installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7.

5.02 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7.

6. LIGHT FIXTURES:

6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to 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.

6.02 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.

6.03 Light fixtures weighting 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.

6.04 Light fixtures weighting 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.

6.05 Light fixtures weighting greater than 10 lb. but less than or equal to 56lbs. 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 then two by four feet weighting less than 56 lbs. shall have a #12 gage slack safety wire at each corner.

6.06 All light fixtures weighting greater than 56 lb. shall be independently supported by not less than four (4) taut #12 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.

7. SERVICE WITHIN THE CEILING

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other service shall be positively attached to the ceiling suspension systems by mechanical means. screws or approved fasteners area required. A minimum of two attachments are required at each component.

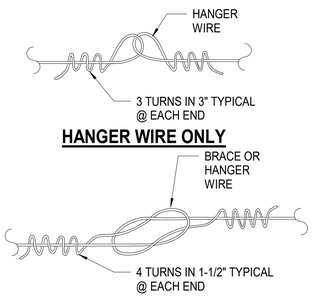
7.02 Ceiling- mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from terminal or service to the structure above.

7.03 Flexible sprinkler hose fitting, ceiling-mounted air terminal or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

7.04 Flexible sprinkler hose fitting, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING:

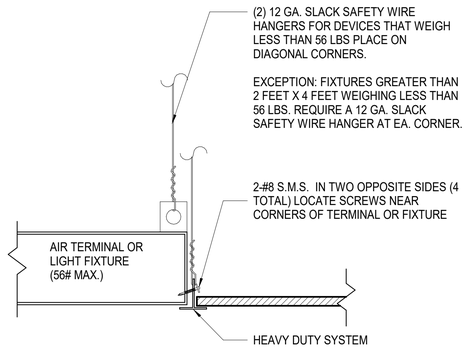
8.01 All lightweight miscellaneous devices, suck as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.



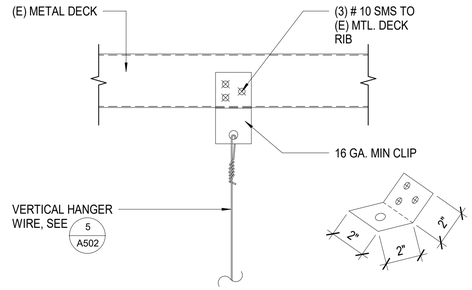
NOTES:

WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

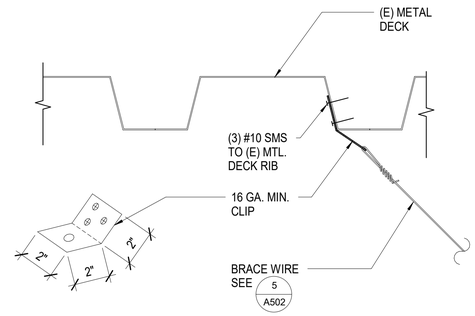
11 HANGER/BRACE WIRE
3" = 1'-0"



8 LIGHTING FIXTURE/DEVICE SUPPORT
3" = 1'-0"

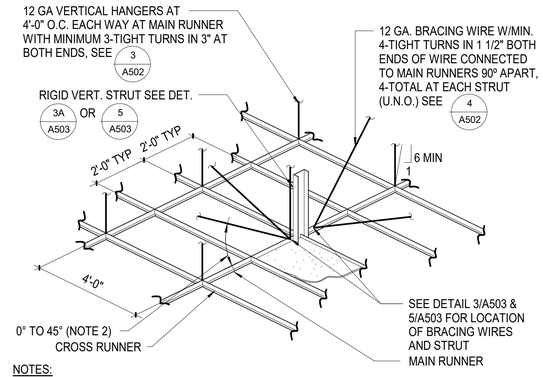


3 HANGER WIRE CONNECTION TO (E) METAL DECK
3" = 1'-0"



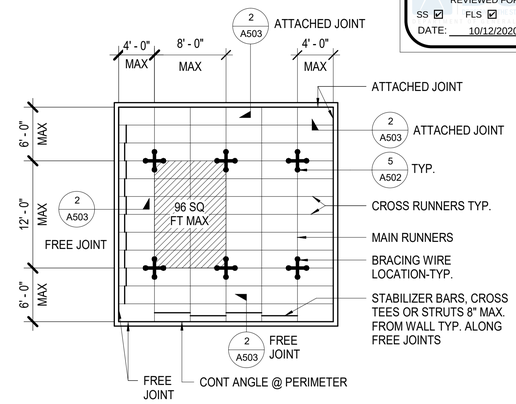
BRACE PARALLEL TO TRUSS

4 BRACING WIRE CONNECTION TO (E) METAL DECK
3" = 1'-0"



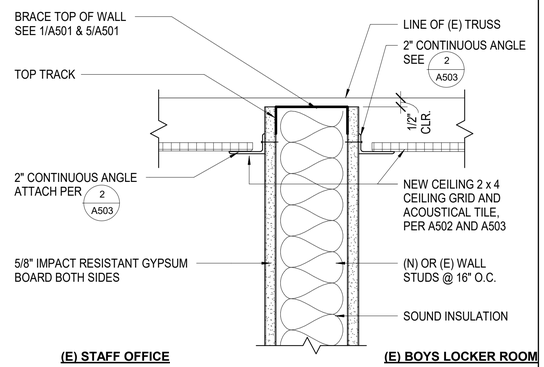
NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFER
2. WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

5 SUSPENDED CEILING BRACING ASSEMBLY
3" = 1'-0"



NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ. FT. MAX. IN ROOMS OVER 96 SQ. FT.

1 TYPICAL CEILING PLAN
1/8" = 1'-0"



2 SUSPENDED ACOUSTICAL CEILING AT WALL
3" = 1'-0"

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		JOB NO: 19-SVUSD-031

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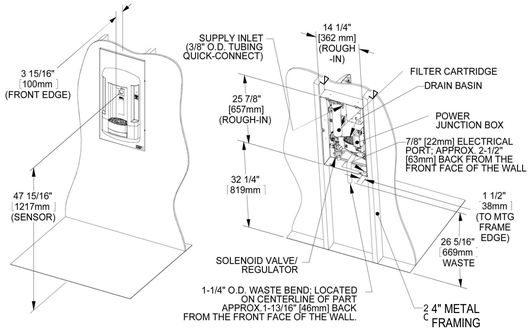
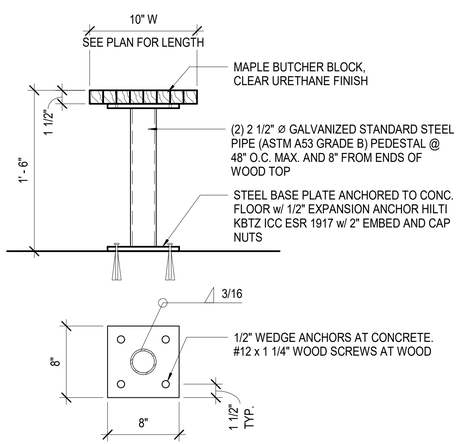
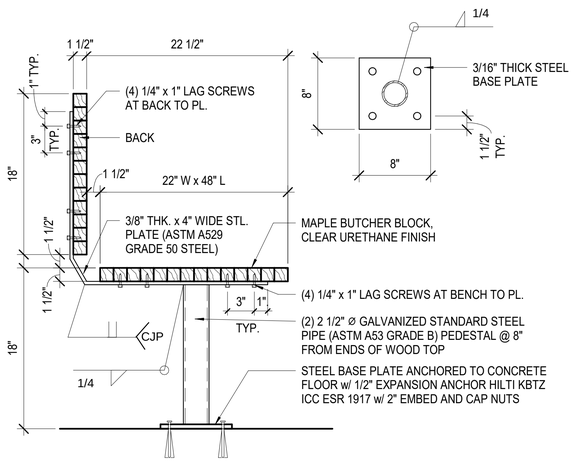
A502 ___ OF ___



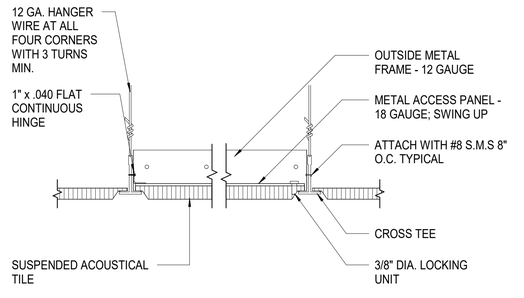
9 ACCESSIBLE BOTTLE STATION
1/2" = 1'-0"



10 LOCKER BENCH
1 1/2" = 1'-0"



11 LOCKER BENCH
1 1/2" = 1'-0"



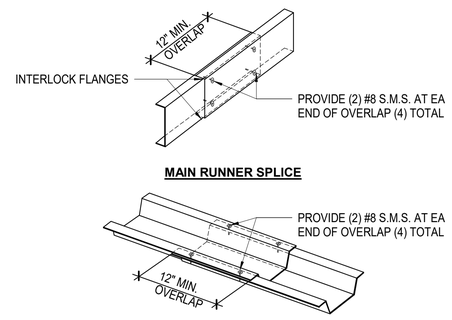
NOTES:
CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SIZE, LOCATION AND TYPE OF ACCESS PANELS WITH LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT CONCEALED ABOVE.

6 ACCESS PANEL
3" = 1'-0"

TYPICAL SADDLE TIE DETAIL

HANGER WIRE CONDITION SHOWN.
BRACE WIRE CONDITION SIMILAR

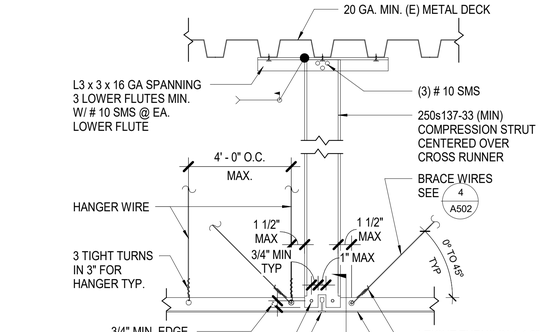
7 TYPICAL SADDLE TIE DETAIL
NTS

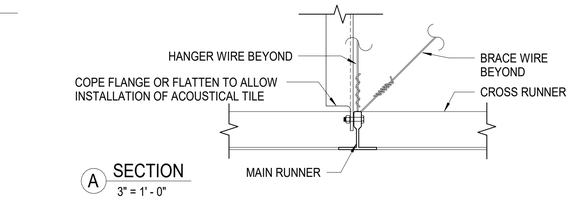


MAIN RUNNER SPLICE

FURRING CHANNEL SPLICE

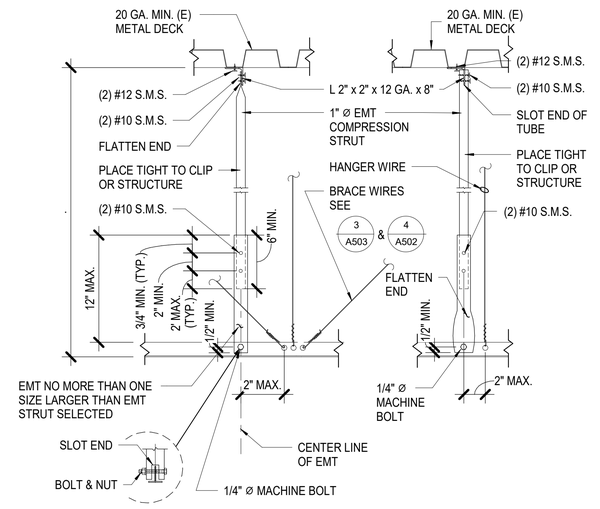
8 SPLICE DETAILS
1" = 1'-0"





A SECTION
3" = 1' - 0"

3 CHANNEL TYPE STRUT
1 1/2" = 1'-0"

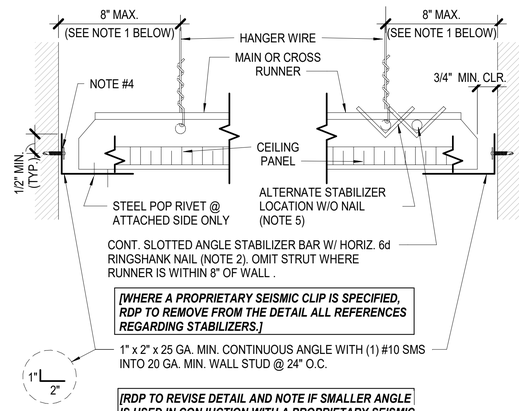


OPTION 1

OPTION 2

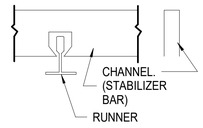
SEE OPTION 1 FOR
INFORMATION NOT SHOWN

5 TUBE TYPE STRUT
1 1/2" = 1'-0"



ATTACHED JOINT **FREE JOINT**

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.



APPROVED STABILIZER
(SEE NOTE 3)

2 CEILING PERIMETER
3" = 1'-0"

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LICENSED ARCHITECT
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		JOB NO: 19-SVUSD-031

CEILING AND MISC DETAILS

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A503

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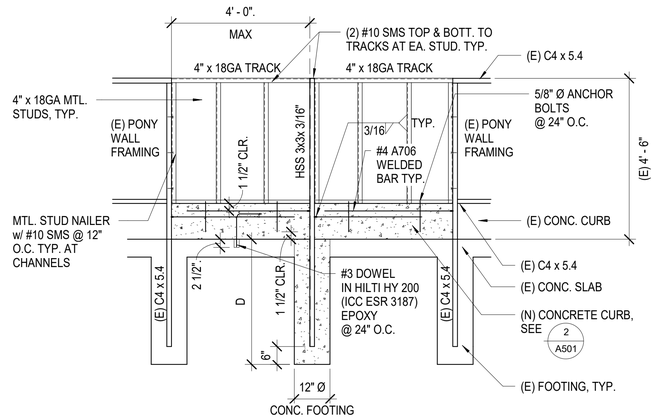
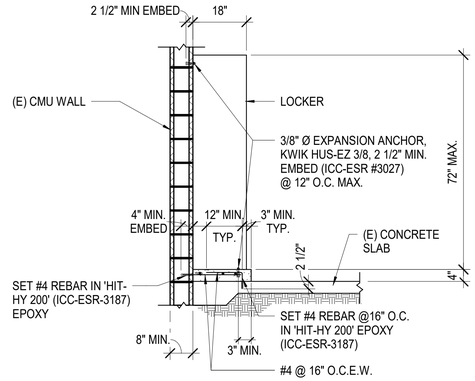


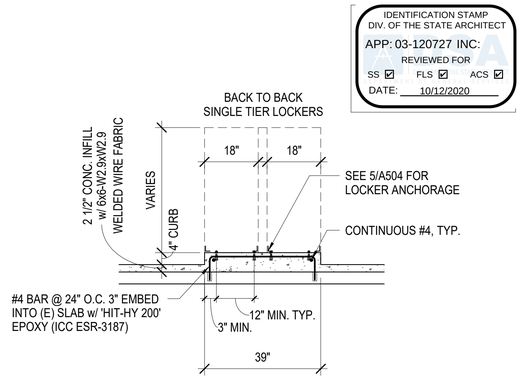
POLE FOOTING EMBED.	
CASE	D
4'-10" MAX. PONY WALL	3' - 0"
4'-10" MA. PONY WALL w/ SCREEN ON TOP	4' - 0"
8'-0" MAX. PONEY WALL	4' - 3"
8'-0" MAX. PONY WALL w/ LOCKERS & SCREEN ON TOP	5' -0"

NOTE: (N) AND (E) PONY WALLS SHALL BE FINISHED WITH 7/8" CEMENT PLASTER SMOOTH FINISH, PAINTED

6 PONY WALL INFILL FRAMING
1/2" = 1'-0"



3 LOCKER WALL ANCHORAGE (CMU WALL)
1/2" = 1'-0"



1 TEAM LOCKER CURB DETAIL
1/2" = 1'-0"

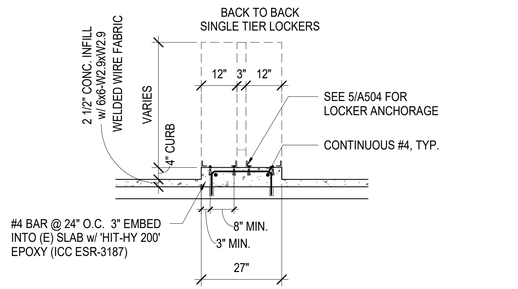
9 TYPICAL DUCT / FLUE DETAIL
1" = 1'-0"

NOTES:

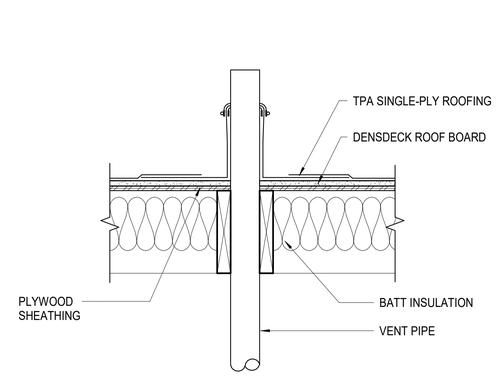
1. 36" LONG BAR AT BACK OF WATER CLOSET AND 42" LONG BAR AT SIDE OF WATER CLOSET.
2. 24" CLEAR FROM FRONT FACE OF WATER CLOSET TO END OF SIDE GRAB BAR.

7 GRAB BAR DETAIL
3" = 1'-0"

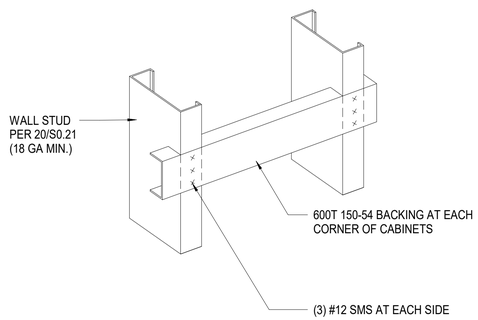
4 LOCKER WALL ANCHORAGE (MTL STUD WALL)
1/2" = 1'-0"



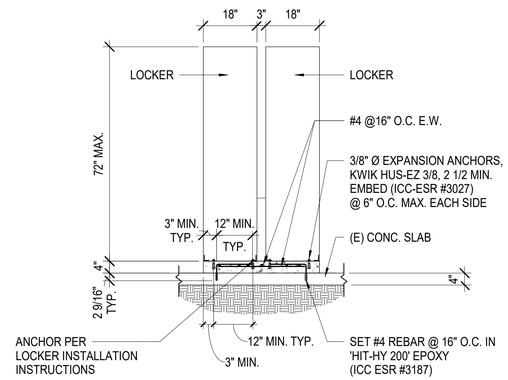
2 LOCKER CURB DETAIL
1/2" = 1'-0"



10 TYPICAL VENT STACK DETAIL
1 1/2" = 1'-0"



8 BLOCKING AT METAL STUD
3" = 1'-0"



5 LOCKER ANCHORAGE DETAIL
1/2" = 1'-0"

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09.10.2020
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: PVP / SAN
		CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

MISCELLANEOUS DETAILS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

A504

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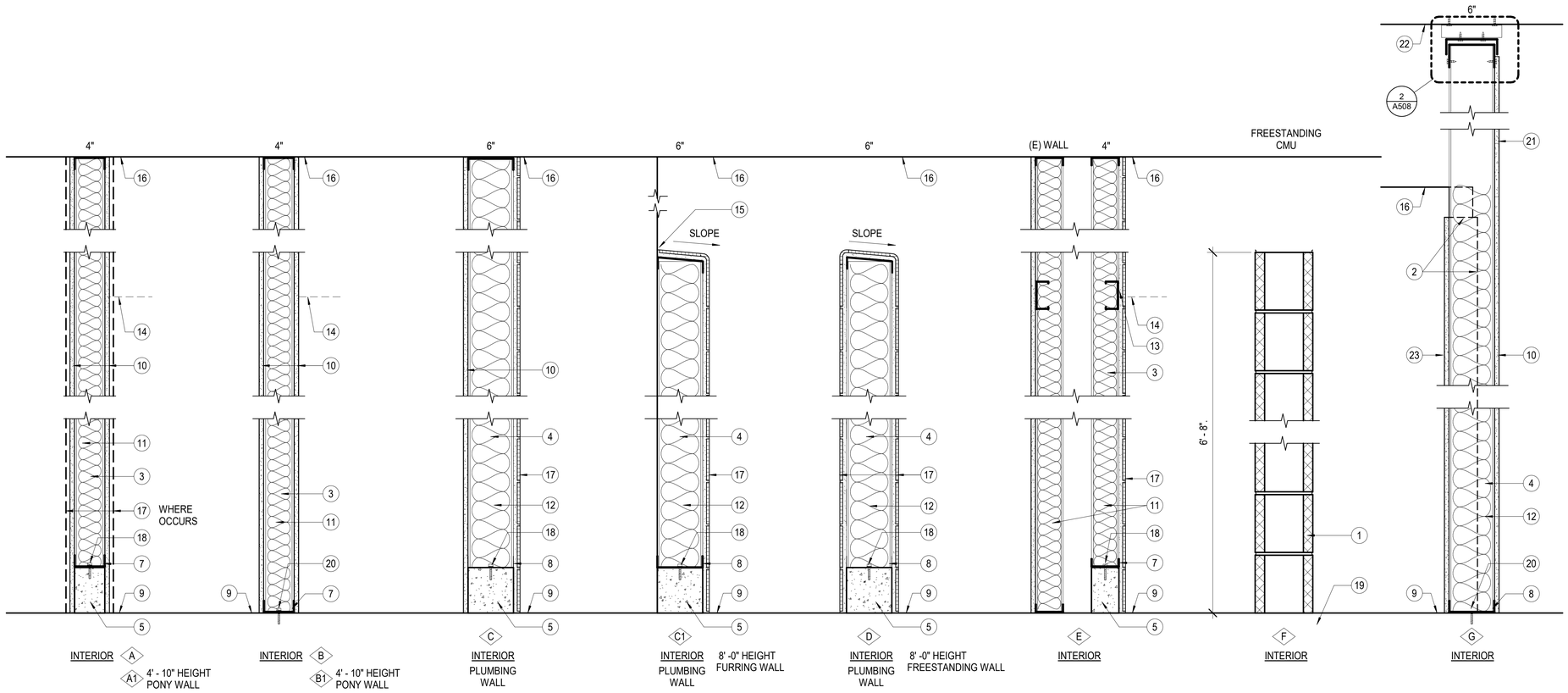

1 WALL TYPES
1 1/2" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR SHEAR WALLS. SHEATHING AND/OR BRACING NOT SHOWN HERE.
2. ALL INTERIOR WALLS SHALL HAVE SEAL PERIMETER AT FLOOR AND CEILING LINES.

WALL TYPES KEY NOTES

1. 8" x 8" x 16" CMU BLOCK
2. EXISTING METAL PARTITION TO REMAIN
3. 4" METAL STUDS AT 16" O.C., 16 OR 20 GA. (SEE 20/S0.21 METAL STUD SCHEDULE)
4. 6" METAL STUDS AT 16" O.C.
5. 6" HIGH CONCRETE CURB
6. UNUSED
7. 4" CEILING AND FLOOR TRACK
8. 6" CEILING AND FLOOR TRACK
9. FINISH FLOOR (SEE FINISH SCHEDULE FOR FLOOR FINISHES)
10. SINGLE LAYER 5/8" TYPE 'X' GYPSUM BOARD (SEE FINISH SCHEDULE FOR OTHER FINISHES)
11. 3" THICK SOUND INSULATION, UNFACED
12. 5" THICK SOUND INSULATION, UNFACED
13. METAL FRAMING BLOCKING AS REQUIRED PER 8/A504 (TYP.)
14. DROPPED CEILING LINE WHERE OCCURS
15. SEALANT
16. UNDERSIDE OF CEILING
17. CERAMIC WALL TILE FINISH
18. WALL TRACK TO CONCRETE ANCHOR PER 2/A501
19. TOP OF CMU WALL FOOTING PER 6/S0.30
20. 3/8" ø HILTI 'HUS-EZ' ANCHORS w 2" EMBED. (PER ICC ESR 3027) @ 32" MAX. O.C.
21. GYPSUM BOARD EXTENDED TO UNDERSIDE OF ROOF STRUCTURE FOR SMOKE BARRIER
22. UNDERSIDE OF METAL ROOF DECK
23. EXISTING FINISH TO REMAIN

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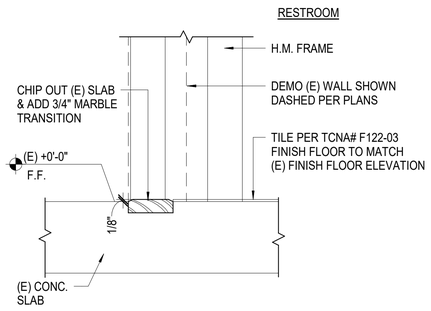
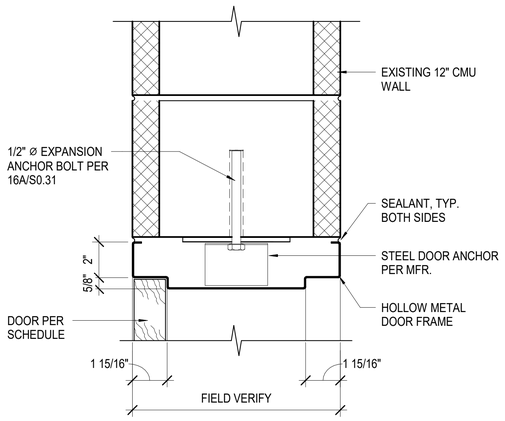
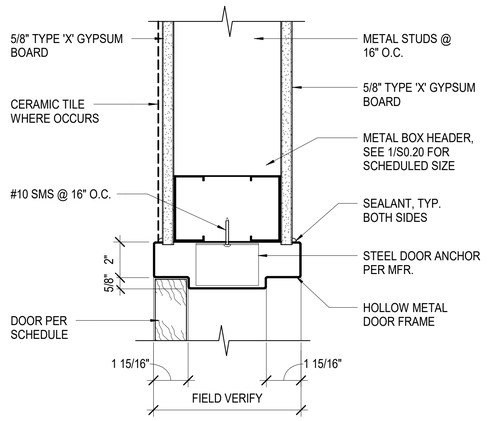


11 THRESHOLD
3" = 1'-0"



8 INTERIOR DOOR HEAD (JAMB SIM.)
3" = 1'-0"



5 INTERIOR DOOR HEAD (JAMB SIM.)
3" = 1'-0"

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09.10.2020
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: MJQ / SAN
		CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

WALL TYPES AND DOOR DETAILS

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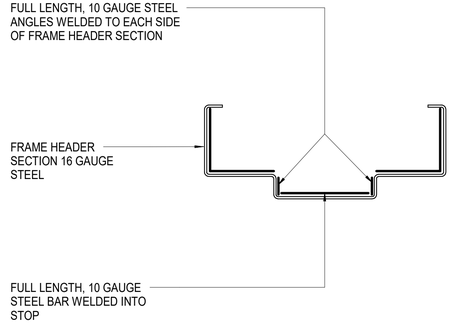
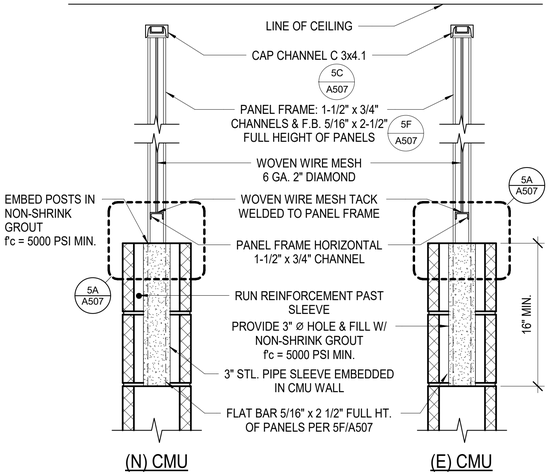
A505

___ OF ___

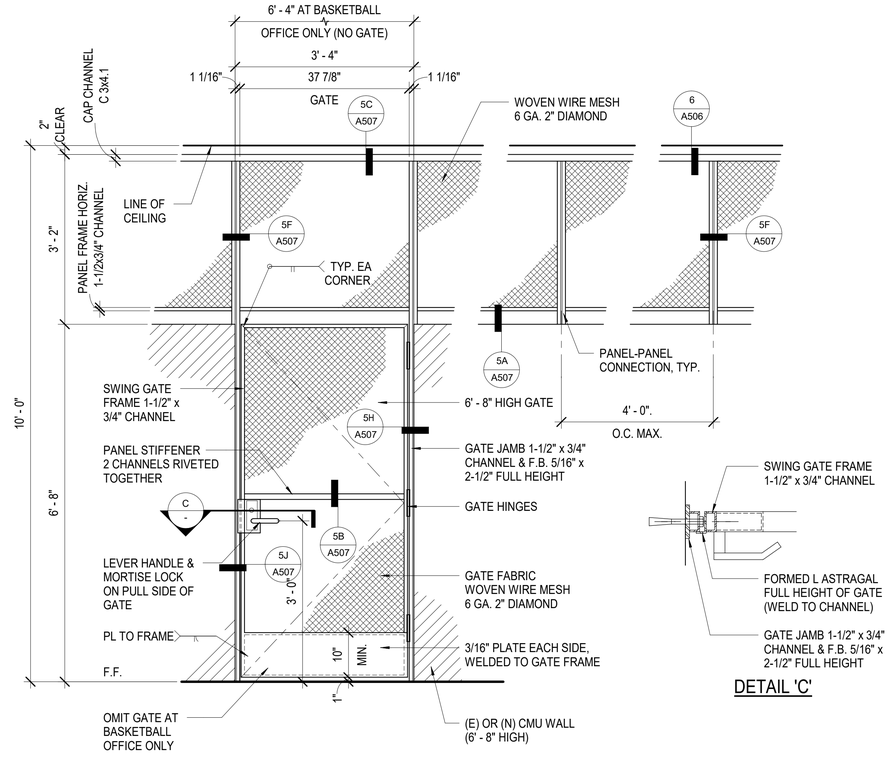


NOTE: DOOR CLOSER REINFORCEMENT FOR ALL STEEL DOOR FRAMES

9 DOOR HARDWARE REINFORCEMENT
6" = 1'-0"



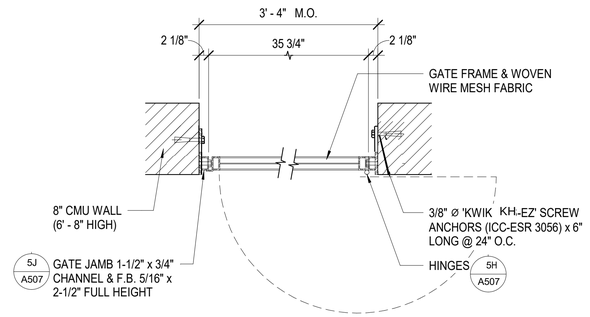
6 WOVEN WIRE MESH BARRIER ON (E) & (N) CMU
1 1/2" = 1'-0"

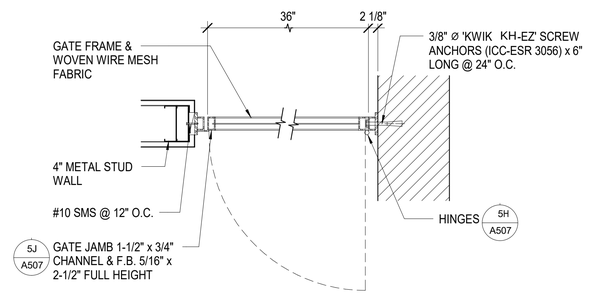


DETAIL 'C'

10 DOOR REINFORCEMENT
3/4" = 1'-0"

7 METAL STUD FREESTANDING WALL
1 1/2" = 1'-0"

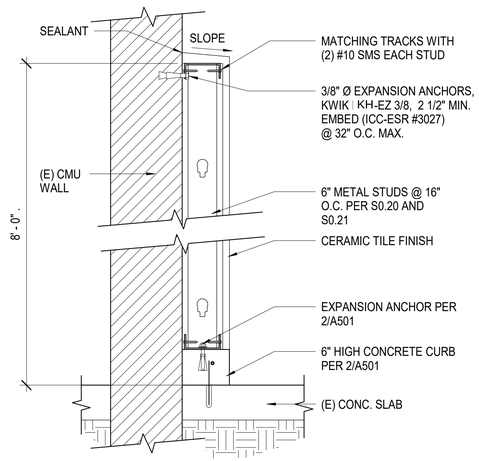




GATE NOTES:

1. ENTIRE ASSEMBLY TO BE GREEN POWDER COATED FINISH PER SPECIFICATIONS.
2. ALL WELD TO BE GROUND SMOOTH.
3. MAXIMUM EFFORT TO OPERATE GATE SHALL NOT EXCEED 5 POUNDS, WHEN PULL OR PUSH EFFORTS APPLIED AT RIGHT ANGLES TO THE HINGED GATE.

8 METAL STUD FURRING WALL
1 1/2" = 1'-0"



5 WOVEN WIRE MESH GATE & SECURITY BARRIER
3/4" = 1'-0"

AMADOR WHITTLE
ARCHITECTS, INC.

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JEAN ANN AMADOR
C-22205
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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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		JOB NO: 19-SVUSD-031

DETAILS

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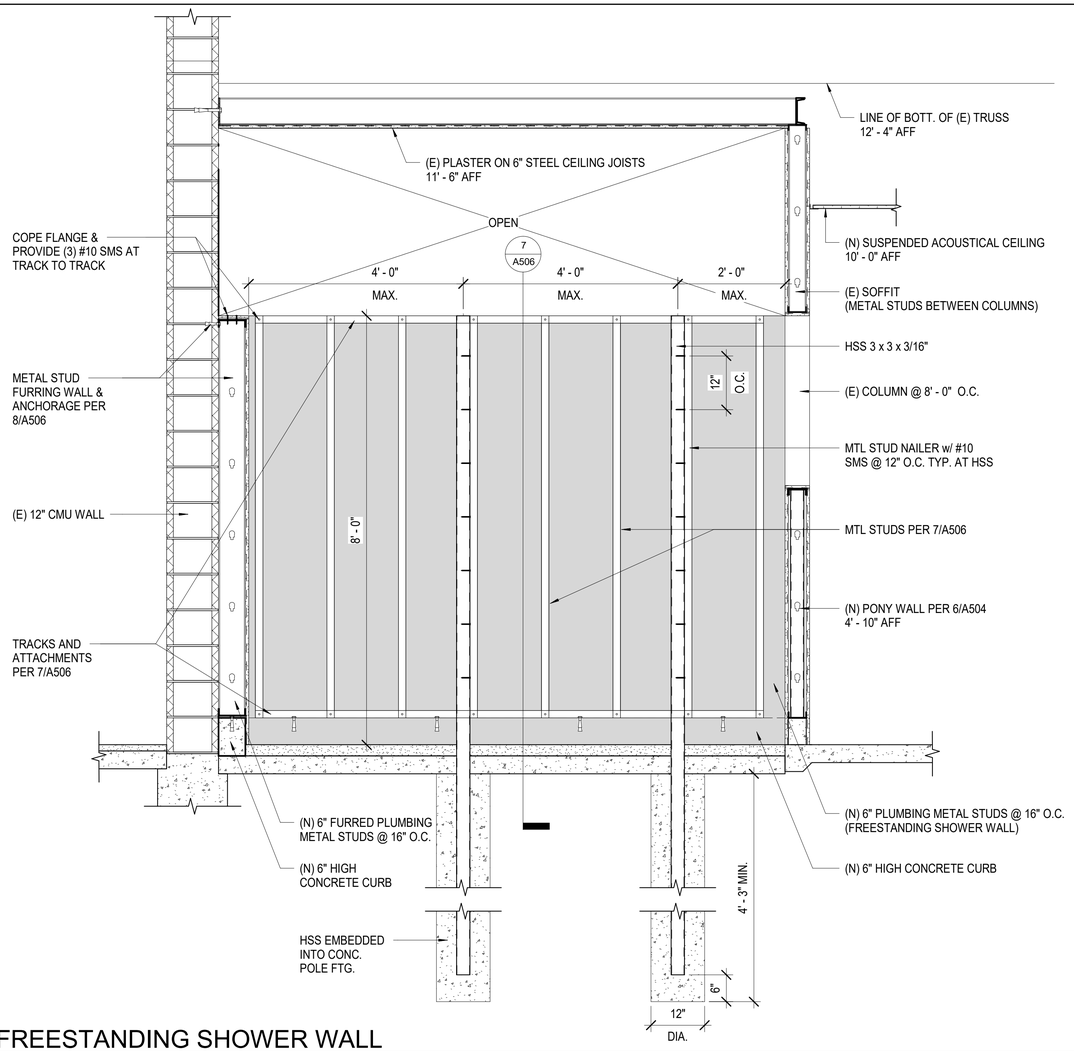
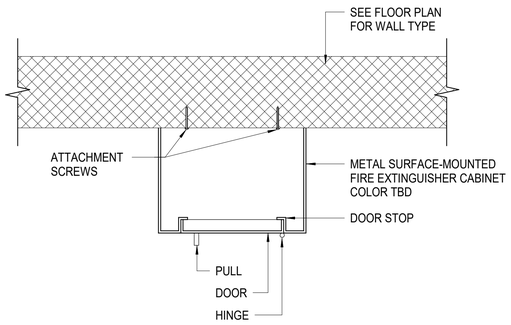
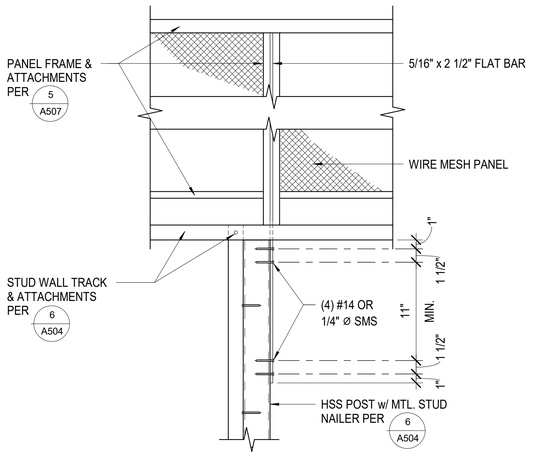


10 FREESTANDING SHOWER WALL
3/4" = 1'-0"

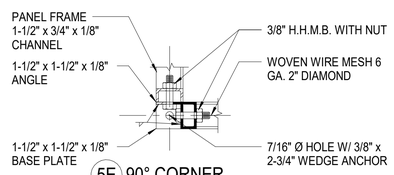


NOTE:
FOR METAL STUD WALL MOUNTED DETAIL SEE 6/S0.20
FOR CMU WALL MOUNTED DETAIL SEE 4/S0.30

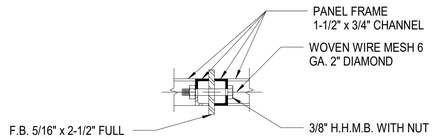
11 FIRE EXTINGUISHER CABINET
1 1/2" = 1'-0"



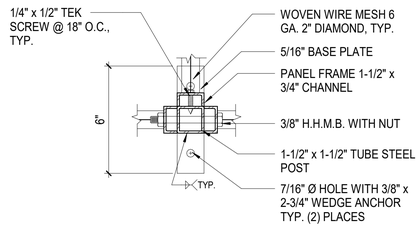
8 WOVEN WIRE MESH BARRIER ON MTL. STUD WALL
1 1/2" = 1'-0"



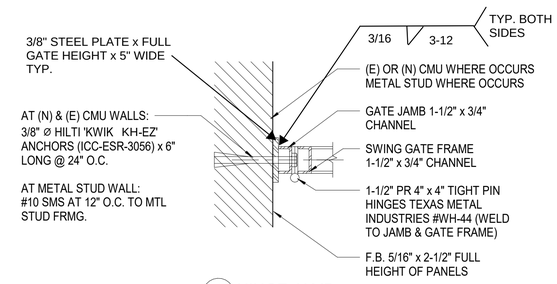
5E 90° CORNER



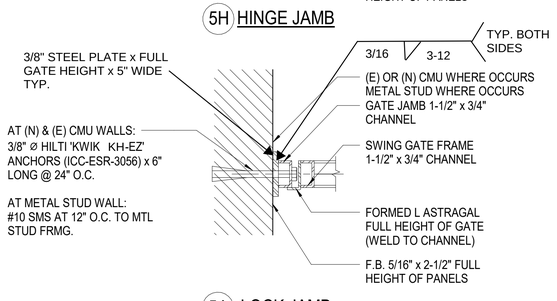
5F PANEL-PANEL CONNECTION



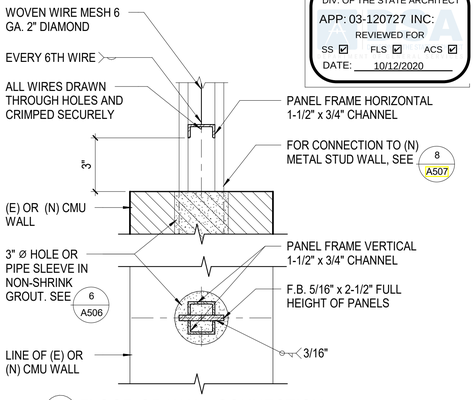
5G 3-WAY CONNECTION



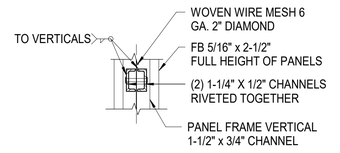
5H HINGE JAMB



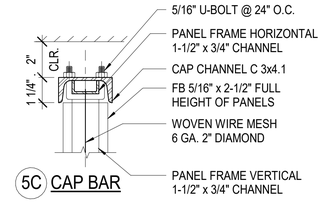
5J LOCK JAMB



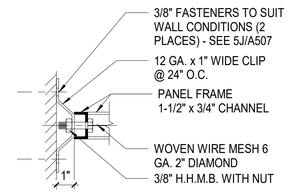
5A FLOOR OR WALL CONNECTION



5B PANEL STIFFENER



5C CAP BAR



5D WALL CONNECTION

5 HEAVY DUTY WIRE MESH DETAILS
3" = 1'-0"

IDENTIFICATION STAMP
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AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
LEAH ANN AMADOR
C-32205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

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AGOURA HILLS, CA 91301
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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS		DATE: 09.10.2020
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DETAILS

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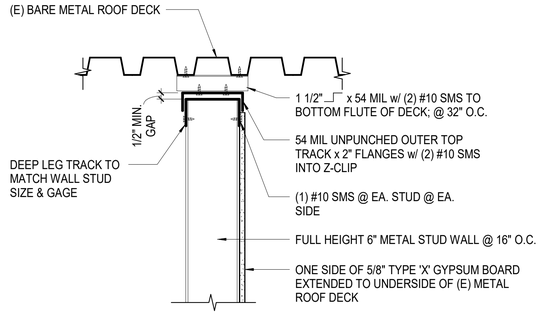
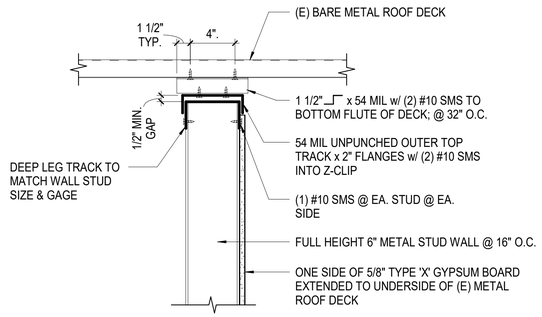


FLUTES PARALLEL TO PARTITION WALL



FLUTES PERPENDICULAR TO PARTITION WALL

2 TOP TRACK CONNECTION TO ROOF DECK
1 1/2" = 1'-0"

AMADOR WHITTLE
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LICENSED ARCHITECT
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C-22205
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FINISH SCHEDULE

FINISH KEY	LOCATION	FLOOR		BASE		WALLS			CEILING		
		EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	PAINT FINISH	EXISTING	NEW	PAINT FINISH
A	LOCKER ROOM	POURED IN PLACE COATING TO BE REMOVED	EPOXY FLOOR COATING	RUBBER BASE TO BE REMOVED	RUBBER BASE	GYPSUM PLASTER TO BE REMOVED	IMPACT RESISTANT GYPSUM BOARD/GYPSUM BOARD	SEMI-GLOSS	METAL PANELS TO BE REMOVED	MOISTURE RESISTANT ACOUSTIC CEILING PANELS AND GRID	
B	BOYS SHOWERS	CERAMIC TILE TO BE REMOVED	PORCELAIN TILE	SELF-COVED TO BE REMOVED	COVE TILE BASE	CERAMIC TILE TO BE REMOVED	PORCELAIN TILE	HIGH GLOSS	PLASTER ON MTL STUD	EXISTING TO REMAIN	HIGH GLOSS
C	VOLLEYBALL TEAM LOCKER	CERAMIC TILE TO BE REMOVED	EPOXY FLOOR COATING	RUBBER BASE TO BE REMOVED	RUBBER BASE	CERAMIC TILE TO BE REMOVED	GYPSUM PLASTER	SEMI-GLOSS	PLASTER ON MTL STUD TO BE REMOVED	PLASTER ON MTL STUD	
D	BOYS TEAM LOCKER	POURED IN PLACE COATING TO BE REMOVED	EPOXY FLOOR COATING	RUBBER BASE TO BE REMOVED	RUBBER BASE	CMU WALL	EXISTING TO REMAIN	SEMI-GLOSS	METAL PANELS TO BE REMOVED	MOISTURE RESISTANT ACOUSTIC CEILING PANELS AND GRID	
E	BASKETBALL TEAM LOCKER	POURED IN PLACE COATING TO BE REMOVED	EPOXY FLOOR COATING	RUBBER BASE TO BE REMOVED	RUBBER BASE	CMU WALL	EXISTING TO REMAIN	SEMI-GLOSS	PLASTER ON MTL STUD	MOISTURE RESISTANT ACOUSTIC CEILING PANELS AND GRID	
F	BASKETBALL TEAM ROOM	CARPET TO BE REMOVED	EPOXY FLOOR COATING	RUBBER BASE TO BE REMOVED	RUBBER BASE	CMU WALL	EXISTING TO REMAIN	SEMI-GLOSS	METAL PANELS TO BE REMOVED	MOISTURE RESISTANT ACOUSTIC CEILING PANELS AND GRID	
G	STAFF LOCKER	POURED IN PLACE COATING TO BE REMOVED	PORCELAIN TILE	SELF-COVED TO BE REMOVED	COVE TILE BASE	GYPSUM PLASTER TO BE REMOVED	GYPSUM PLASTER	SEMI-GLOSS	METAL PANELS TO BE REMOVED	GWB ON METAL STUD CEILING JOISTS	
H	STAFF RESTROOM & SHOWER	CERAMIC TILE TO BE REMOVED	PORCELAIN TILE	RUBBER BASE TO BE REMOVED	COVE TILE BASE	GYPSUM PLASTER TO BE REMOVED	PORCELAIN TILE	SEMI-GLOSS	METAL PANELS TO BE REMOVED	GWB ON METAL STUD CEILING JOISTS	
J	OFFICES	CARPET TO BE REMOVED	CARPET	RUBBER BASE TO BE REMOVED	RUBBER BASE	GYPSUM PLASTER	EXISTING TO REMAIN		METAL PANELS TO BE REMOVED	MOISTURE RESISTANT ACOUSTIC CEILING PANELS AND GRID	
K	STORAGE ROOM	POURED IN PLACE COATING	EXISTING TO REMAIN			GYPSUM PLASTER TO BE REMOVED	GYPSUM PLASTER	SEMI-GLOSS	PLASTER ON MTL STUD TO BE REMOVED	PLASTER ON MTL STUD	
L	VESTIBULE	POURED IN PLACE COATING TO BE REMOVED	EPOXY FLOOR COATING	SELF-COVED TO BE REMOVED	RUBBER BASE	GYPSUM PLASTER TO BE REMOVED	GYPSUM PLASTER	SEMI-GLOSS	PLASTER ON MTL STUD TO BE REMOVED	PLASTER ON MTL STUD	

MATERIALS LIST

TAG	MATERIAL	MANUFACTURER	STYLE	COLOR	LOCATION	REMARKS
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG TILE	24" x 48" x 1" OPTIMA HEALTH ZONE FIBERGLASS	WHITE	BOYS LOCKER & CONNECT ENTRIES	
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG TILE	24" x 48" x 3/4" FINE FISSURED	WHITE	STAFF	
C-1	COATING				CONCRETE CURB @ BENCHES	
CPT-1	CARPET	INTERFACE	138570250H	MONOCHROME - HOLLY 101854	STAFF OFFICE, ACUATICS OFFICE & FOOTBALL OFFICE	
CT-1	CERAMIC WALL TILE	DALTILE	6" x 24" PORTFOLIO	ASH GREY PF05	BOYS/STAFF SHOWERS, STAFF LOCKER & STAFF TOILET	
CT-2	CERAMIC WALL TILE	DALTILE	6" x 24" PORTFOLIO	IRON GREY PF06	BOYS/STAFF SHOWERS, STAFF LOCKER & STAFF TOILET	
CT-3	CERAMIC WALL TILE	DALTILE	6" x 24" VOLUME 1.1	RALLY GREEN VL84	BOYS/STAFF SHOWERS, STAFF LOCKER & STAFF TOILET	
FB-1	PORCELAIN FLOOR BASE TILE	DALTILE	COVE BASE	ASH GREY PF05	BOYS/STAFF SHOWERS, STAFF LOCKER & STAFF TOILET	GROUT: #19 PEWTER
FT-1	FLOOR TILE	DALTILE	KEYSTONES 2" x 2"	MINT ICE D152, GARDEN SPOT D141, DESERT GRAY SPECKLE D200	BOYS SHOWERS	GROUT: #19 PEWTER
PT-1	PAINT	DUNN EDWARDS		DEW336 WHITE SAND		
PT-2	PAINT	DUNN EDWARDS		DE5312 SUMMER DAFFODIL		
PT-3	PAINT	DUNN EDWARDS		DE5699 EMERALD POOL		
PT-4	PAINT	DUNN EDWARDS		DE5713 PINE HEAVEN	DOOR TRIM & DOOR	
RB-1	RUBBER BASE	ROPPE	PINNACLE STANDARD TOE	122 NATURAL	LOCKER ROOMS, STAFF AND STORAGE	PROVIDE INSIDE & OUTSIDE CORNERS

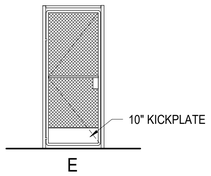
GATE SCHEDULE

NO.	DOOR DIMENSION WIDTH	DOOR DIMENSION HEIGHT	DOOR DIMENSION THK.	DOOR MAT'L	DOOR TYPE	FRAME MAT'L	FRAME DETAILS HEAD	FRAME DETAILS JAMB	HDW SET	PANIC HDW	REMARKS
G001	3' - 0"	6' - 8"		MTL	E	MTL	5C/A507	5H/A507 & 5J/A507	4		WOVEN WIRE MESH FABRIC; POWDER COATED FINISH
G002	3' - 2"	8' - 0"		MTL	E	MTL	5C/A507	5H/A507 & 5J/A507	4		WOVEN WIRE MESH FABRIC; POWDER COATED FINISH
G003	3' - 0"	6' - 8"		MTL	E	MTL	5C/A507	5H/A507 & 5J/A507	4		WOVEN WIRE MESH FABRIC; POWDER COATED FINISH
G004	3' - 0"	6' - 8"		MTL	E	MTL	5C/A507	5H/A507 & 5J/A507	4		WOVEN WIRE MESH FABRIC; POWDER COATED FINISH

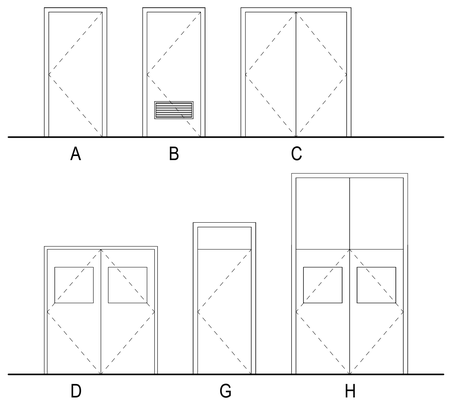
DOOR SCHEDULE

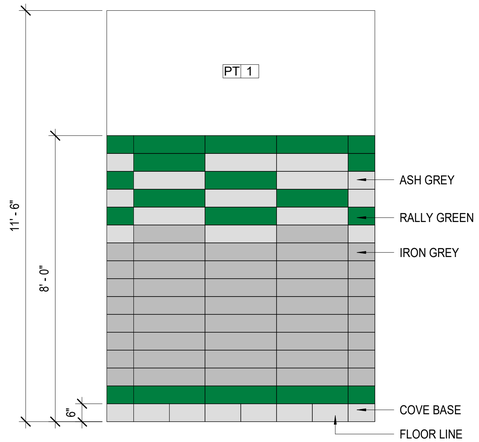
NO.	DOOR DIMENSION WIDTH	DOOR DIMENSION HEIGHT	DOOR DIMENSION THICK	DOOR MAT'L	DOOR TYPE	DOOR FINISH	FRAME MAT'L	FRAME FINISH	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	HDW SET	FIRE RATING	PANIC HDW	REMARKS
101	3' - 0"	7' - 0"	1 3/4"	METAL	A	PT-4	HM	PT-4	8/A505	8/A505		1	3 HR	Yes	
102	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	A	PT-4	HM	PT-4	5/A505	5/A505		2		Yes	
103	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	A	PT-4	HM	PT-4	5/A505	5/A505	11/A505	3		No	SEE 10C1/A702 FOR SIGNAGE DETAIL
104	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	A	PT-4	HM	PT-4	5/A505	5/A505	11/A505	3		No	
105	3' - 0"	7' - 0"	1 3/4"	S.C. WOOD	A	PT-4	HM	PT-4	5/A505	5/A505		3		No	
106	6' - 0"	7' - 0"	1 3/4"	(E) METAL	H			(E)	(E)	(E)	(E)				
107	3' - 0"	7' - 0"	1 3/4"	(E) S.C. WOOD	A			(E)	(E)	(E)	(E)				
108	3' - 0"	7' - 0"	1 3/4"	(E) S.C. WOOD	G			(E)	(E)	(E)	(E)				
109	3' - 0"	7' - 0"	1 3/4"	(E) S.C. WOOD	B			(E)	(E)	(E)	(E)				
110	3' - 0"	7' - 0"	1 3/4"	(E) S.C. WOOD	A			(E)	(E)	(E)	(E)				
111	6' - 0"	7' - 0"	1 3/4"	(E) METAL	H			(E)	(E)	(E)	(E)				
112	6' - 0"	7' - 0"	1 3/4"	(E) METAL	C			(E)	(E)	(E)	(E)				
113	3' - 0"	7' - 0"	1 3/4"	(E) S.C. WOOD	A			(E)	(E)	(E)	(E)				
114	6' - 0"	7' - 0"	1 3/4"	(E) S.C. WOOD	D			(E)	(E)	(E)	(E)				

GATE TYPES

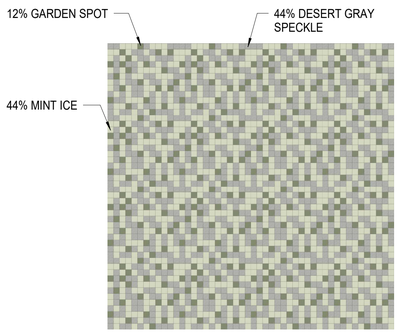


DOOR TYPES





2 CERAMIC WALL TILE PATTERN
1/2" = 1'-0"



1 FLOOR TILE PATTERN
1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

GENERAL NOTES - TYPICAL IN AREA OF PROJECT

NOTES

1. THE SURFACE OF FLOORS SHALL BE SLIP RESISTANT. WHEN TESTED IN ACCORDANCE WITH ASTM C1028B TEST PROCEDURE FOR COEFFICIENT OF FRICTION, TILE MUST ACHIEVE A WET AND DRY VALUE OF NOT LESS THAN 0.60. PRIOR TO THE INSTALLATION OF THE FLOOR COVERING, A WRITTEN STATEMENT FROM THE FLOORING MANUFACTURER MUST BE SUBMITTED TO THE BUILDING INSPECTOR STATING THAT THE PRODUCT TO BE INSTALLED MEETS CURRENT INDUSTRY STANDARDS FOR SLIP RESISTANCE. PROVIDE TEST INFORMATION OR SAMPLES OF THE FLOORING.
2. ALL NEW WALLS TO HAVE LEVEL 5 FINISH.
3. INTERIOR FINISH MATERIALS APPLIED TO WALL AND CEILINGS SHALL BE TESTED AS SPECIFIED IN SECTION 803.
4. THERMAL AND ACOUSTICAL INSULATION SHALL COMPLY WITH SECTION 720, 2019 CBC.

WALL AND CEILING FINISH REQUIREMENTS FROM TABLE 803.9
NON-SPRINKLERED

	EXIT ENCLOSURES EXIT PASSAGEWAYS	CORRIDORS	ROOMS ENCLOSED SPACES
E OCCUPANCY	CLASS A	CLASS B	CLASS C

GENERAL DOOR NOTES

1. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE PRIMED AND PAINTED SEMI-GLOSS.
2. REFER TO SHEET A701 SIGNAGE FLOOR PLAN FOR LOCATIONS OF SIGNAGE, AND SHEET A702 FOR SIGNAGE DETAILS. SIGNS SHALL BE INSTALLED ADJACENT TO DOORS UNLESS NOTED OTHERWISE.
3. ALL DOORS SHALL BE PROVIDED WITH MINIMUM 32" CLEAR WIDTH.
4. REFER TO GENERAL ACCESSIBILITY NOTES, 2. ENTRANCES ON SHEET G002 FOR ADDITIONAL REQUIREMENTS.
5. ALL NEW HOLLOW METAL DOOR FRAMES SHALL BE REINFORCED PER SPECIFICATIONS AND DETAILS 9/A506 10/A506

EXIT DOOR REQUIREMENTS

1. ALL EXIT DOORS IN SCHOOL BUILDINGS, INCLUDING BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF SECTION 2-3304 TITLE 24 CAC. THE FOLLOWING ARE SOME OF THE REQUIREMENTS.
2. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITH NON-GRIP OPENABLE HARDWARE THAT DOES NOT REQUIRE THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
3. DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 AND 44 INCHES ABOVE THE FLOOR.
4. DEADBOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
REAM ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL -
BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS		DATE: 09.10.2020
	05.15.2020 DSA_V1 SUBMITTAL	DRAWN: PVP
	09.10.2020 DSA_V2 SUBMITTAL	CHECK: MJQ / JAA
		JOB NO: 19-SVUSD-031

FINISHES AND DOOR SCHEDULES

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

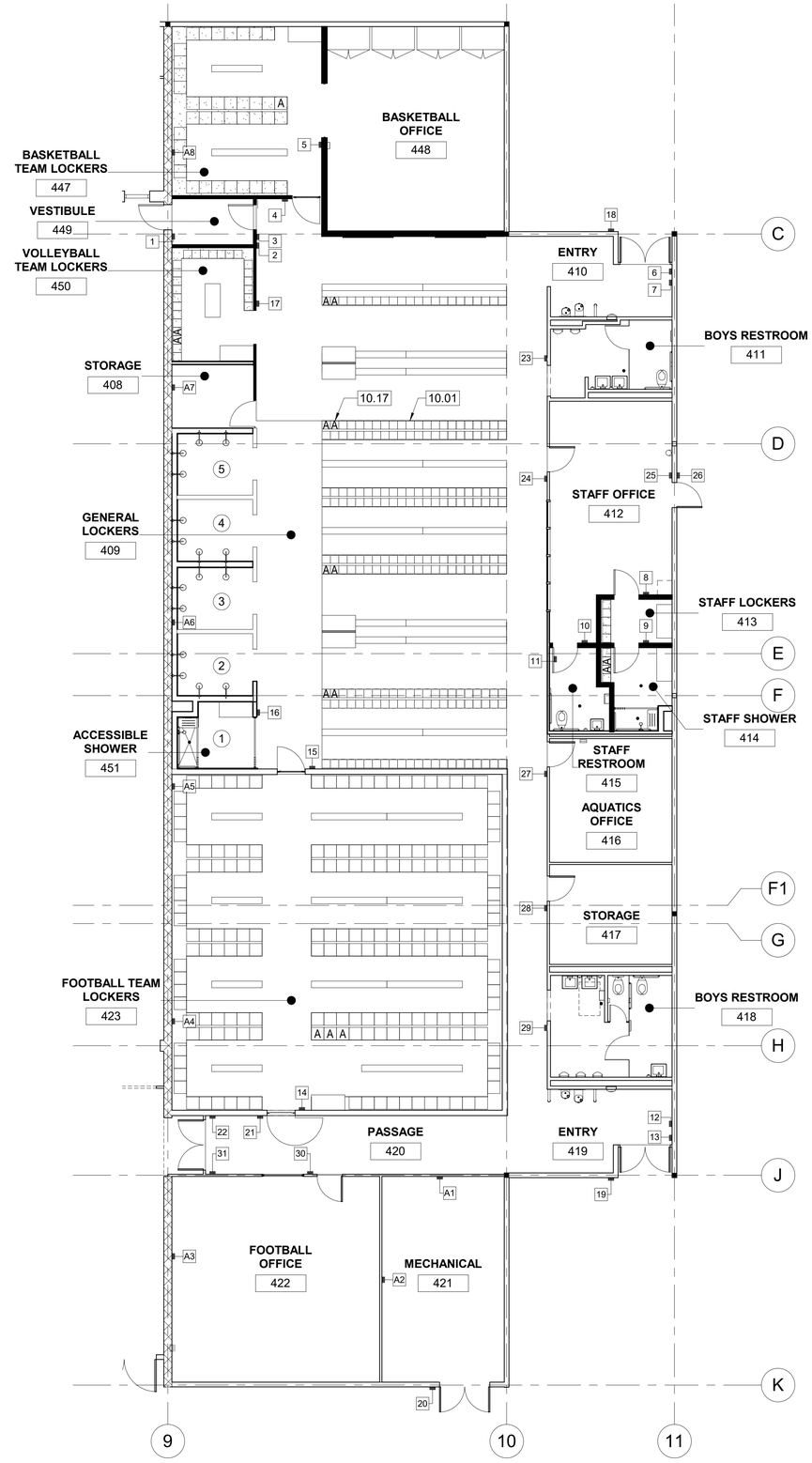
A601

___ OF ___

SIGNAGE SCHEDULE IN CONCEALED SPACE

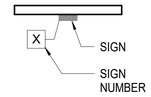
SIGN NO.	SIGN LOCATION IN CONCEALED SPACE	SIGN - TEXT	ABOVE ROOM NO.	DETAIL
A1	MECHANICAL ROOM	FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	421	11/A702
A2	MECHANICAL ROOM	FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	421	11/A702
A3	FOOTBALL OFFICE	FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	422	11/A702
A4	FOOTBALL TEAM LOCKERS	FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	423	11/A702
A5	FOOTBALL TEAM LOCKERS	FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	423	11/A702
A6	GENERAL LOCKERS	FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	409	11/A702
A7	STORAGE	FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	408	11/A702
A8	BASKETBALL TEAM LOCKERS	FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	447	11/A702

NOTE: SIGNAGE ON THIS SCHEDULE SHALL COMPLY WITH CBC 703.7 MARKING AND IDENTIFICATION.



1 SIGNAGE PLAN
1/8" = 1'-0"

SIGNAGE LEGEND



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APP: 03-120727 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

GENERAL SIGNAGE NOTES

1. REFER TO SHEET A702 FOR SIGNAGE DETAILS INCLUDING CHARACTERS & BRAILLE SIGN DETAIL.
2. REFER TO GENERAL ACCESSIBILITY NOTES ON SHEET G002 FOR ADDITIONAL REQUIREMENTS.
3. SIGNS SHALL BE LOCATED ADJACENT TO EXIT ACCESS DOORS UNLESS OTHERWISE NOTED.

SIGNAGE SCHEDULE

SIGN NO.	SIGN LOCATION	SIGN - TEXT	ROOM NO.	DETAIL
1	VESTIBULE	EXIT ROUTE	427	2B/A702
2	GENERAL LOCKERS	EXIT ROUTE	427	2B/A702
3	GENERAL LOCKERS	GYMNASIUM	427	1/A702
4	GENERAL LOCKERS	BASKETBALL LOCKERS	447	1/A702
5	BASKETBALL TEAM LOCKERS	BASKETBALL OFFICE	448	1/A702
6	ENTRY 410	EXIT		2A/A702
7	ENTRY 410	OCCUPANT LOAD		8/A702
8	STAFF OFFICE	STAFF LOCKERS	413	1/A702
9	STAFF LOCKERS	STAFF SHOWER	414	1/A702
10	STAFF OFFICE	(MAN'S GRAPHIC)	415	10C7/A702
11	STAFF RESTROOM DOOR	(MAN'S GRAPHIC)	415	10C1/A702
12	ENTRY 419	OCCUPANT LOAD		8/A702
13	ENTRY 419	EXIT		2A/A702
14	FOOTBALL TEAM LOCKERS	EXIT ROUTE	420	2B/A702
15	GENERAL LOCKERS / NOT AN EXIT	FOOTBALL TEAM LOCKERS	423	1/A702
16	GENERAL LOCKERS	ACCESSIBLE SHOWER	451	1/A702
17	GENERAL LOCKERS	VOLLEYBALL LOCKERS	450	1/A702
18	EXTERIOR / ENTRY 410	INTERNATIONAL SYMBOL OF ACCESIBILITY EMBLEM	410	5/A702
19	EXTERIOR / ENTRY 419	INTERNATIONAL SYMBOL OF ACCESIBILITY EMBLEM	419	5/A702
20	EXTERIOR / MECHANICAL ROOM	MECHANICAL ROOM	421	1/A702
21	PASSAGE	FOOTBALL TEAM LOCKERS	423	1/A702
22	PASSAGE	GYMNASIUM	427	1/A702
23	GENERAL LOCKERS	(MAN'S GRAPHIC)	411	EXISTING
24	GENERAL LOCKERS	BOY'S P.E. STAFF	412	EXISTING
25	STAFF OFFICE	EXIT		EXISTING
26	EXTERIOR / STAFF OFFICE	BOY'S P.E. STAFF	412	EXISTING
27	GENERAL LOCKERS	AQUATICS OFFICE	416	EXISTING
28	GENERAL LOCKERS		417	EXISTING
29	GENERAL LOCKERS	(MAN'S GRAPHIC)	418	EXISTING
30	PASSAGE	FOOTBALL OFFICE	422	EXISTING
31	PASSAGE	EXIT ROUTE	427	EXISTING

NORTH

0' 4' 8' 16' 32'

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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

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NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS	DATE: 09.10.2020
05.15.2020 DSA_V1 SUBMITTAL	DRAWN: PVP
09.10.2020 DSA_V2 SUBMITTAL	CHECK: MJQ / JAA
	JOB NO: 19-SVUSD-031

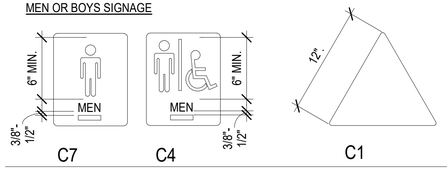
SIGNAGE PLAN AND SCHEDULE

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

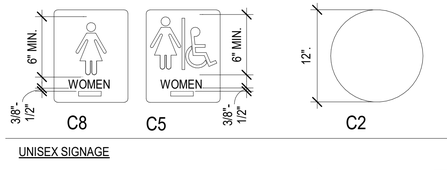
A701

___ OF ___

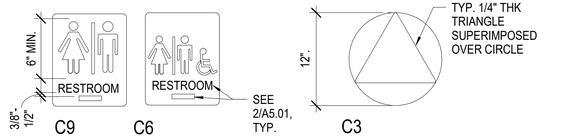
MEN OR BOYS SIGNAGE



WOMEN OR GIRLS SIGNAGE



UNISEX SIGNAGE

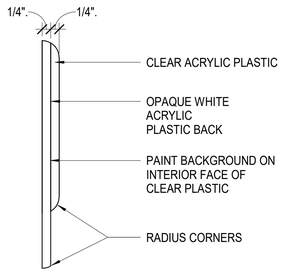


RESTROOM WALL SIGNS

NOTE: RESTROOM WALL SIGNS ARE TO BE MOUNTED ON LATCH SIDE OF DOOR.

RESTROOM DOOR SYMBOLS

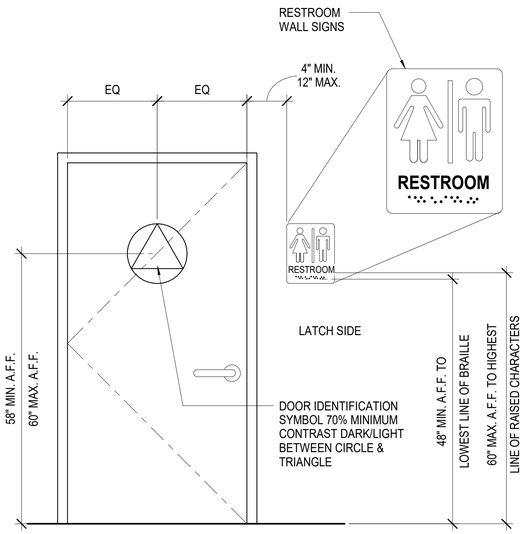
NOTE: RESTROOM DOOR SIGNS ARE TO BE CENTERED ON DOOR.



DOOR SIGN SECTION

NOTES ON RESTROOM SIGNAGE:

1. ALL RESTROOM DOOR SIGNS SHALL BE MOUNTED AT 58" MINIMUM AND 60" MAXIMUM ABOVE FINISH FLOOR TO CENTER OF SIGN.
2. ATTACH SIGN USING (3) THREE FLATHEAD WOOD SCREWS, COUNTER-SUNK AND ADHESIVE.
3. ISA SYMBOL REQUIRED ON DOOR, WALL OR SEPARATE SIGN, NOT REQUIRED TO BE RAISED FROM BACKGROUND.
4. GEOMETRIC SYMBOL DOOR SIGNS FOR RESTROOMS MUST CONTRAST WITH DOOR, DARK ON LIGHT OR LIGHT ON DARK. FOR UNISEX DOOR SIGNS, TRIANGLE TO CONTRAST WITH CIRCLE, WHICH MUST CONTRAST WITH THE DOOR, 70% MINIMUM LIGHT/DARK. ENTIRE BACKGROUND COLOR OF GEOMETRIC SYMBOL SIGN MUST CONTRAST WITH DOOR. IT IS NOT ALLOWED TO HAVE A THIN CONTRASTING BORDER AROUND SYMBOL, WITH REMAINDER OF SIGN BACKGROUND IN A NON-CONTRASTING COLOR. ISA, CONTRASTING WITH BACKGROUND, MAY BE ON SIGN.
5. EDGES OF SIGNS SHALL BE ROUNDED, CHAMFERED OR EASED. CORNERS OF SIGNS SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.



RESTROOM DOOR SIGN ELEVATION

10 RESTROOM SIGNAGE (C1 thru C6)

1" = 1'-0"

(A) CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794 MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE (SEE NOTE E BELOW). CBC 11B-703.2

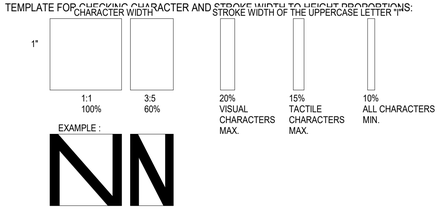
(B) CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9 MM) AND A MAXIMUM OF 2 INCHES (51 MM) HIGH BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". CBC 11B-703.2.5

(C) FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, PICTOGRAMS, SYMBOLS AND THEIR BACKGROUND MUST HAVE A NON-GLARE FINISH. CHARACTERS, PICTOGRAMS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. CBC 11B-703.5.1, 11B-703.6.2, 11B-703.7.1

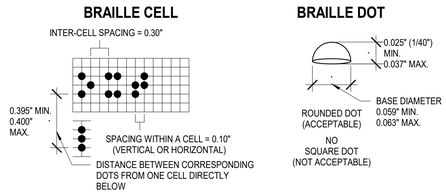
(D) PROPORTIONS: CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 % MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". CBC 11B-703.2.4, 11B-703.5.4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER FOR RAISED CHARACTERS AND 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER FOR VISUAL CHARACTERS. CBC 11B-703.2.6, 11B-703.5.7

AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS "I" AND "O" AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE "O". IF THE CHARACTER IS NOT WIDER THAN 1 INCH, NOR NARROWER THAN THE 3:5 RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 15% OR 10% RECTANGLE TO DETERMINE IF THE STROKE OF THE "I" IS TOO BROAD, AND THE 10% RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:



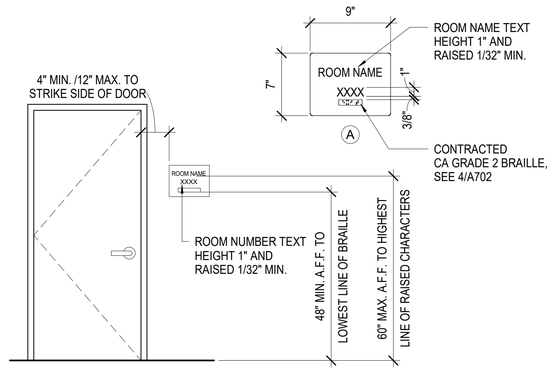
(E) BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH (2.5 MM) ON CENTERS IN EACH CELL WITH 0.30 INCH (7.6 MM) SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH (0.635 MM) ABOVE THE BACKGROUND AND 0.037" MAXIMUM. CBC 11B-703.3



INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT & SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED IN LIEU OF SQUARE SIDED & FLAT TOPPED. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT READABLE FOR MANY BRAILLE USERS.

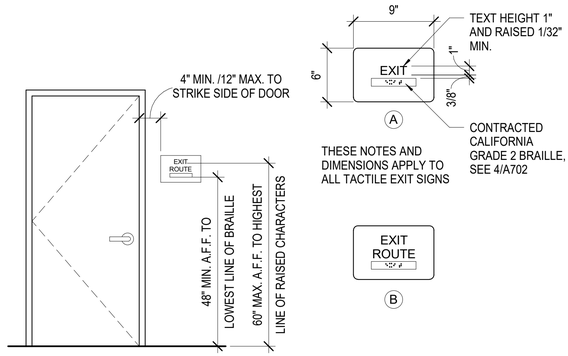
4 CHARACTERS & BRAILLE SIGN DETAIL

6" = 1'-0"



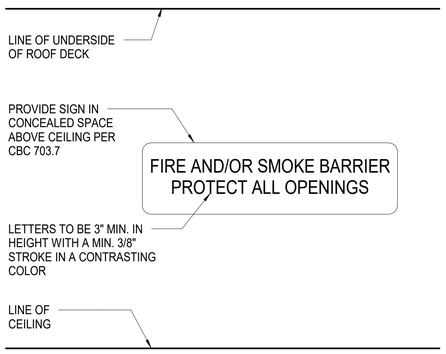
1 ROOM I.D. SIGNS

1 1/2" = 1'-0"



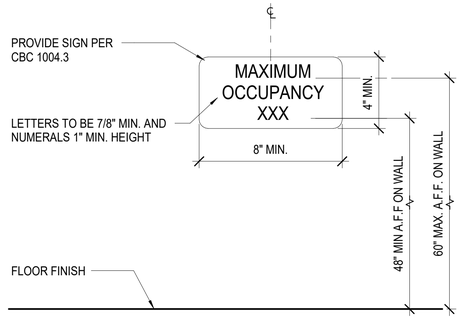
2 TACTILE EXIT SIGN TYPES

1 1/2" = 1'-0"



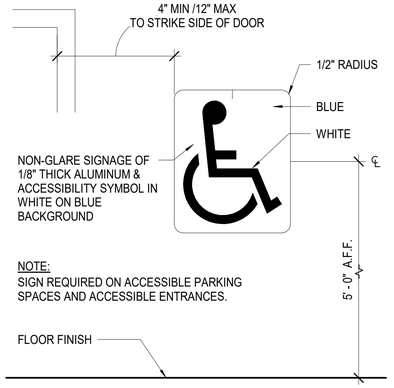
11 SIGN IN CONCEALED SPACE

3" = 1'-0"



8 OCCUPANT LOAD SIGN

3" = 1'-0"



5 INTERNATIONAL SYMBOL OF ACCESS

3" = 1'-0"

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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS 05.15.2020 DSA_V1 SUBMITTAL	DATE: 09.10.2020
09.10.2020 DSA_V2 SUBMITTAL	DRAWN: PVP
	CHECK: MJQ / JAA
	JOB NO: 19-SVUSD-031

SIGNAGE DETAILS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

A702

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LIGHT GAUGE METAL

1. FOR NON-LOAD BEARING METAL STUDS AND CEILINGS SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FOLLOWING NOTES APPLY TO METAL STUDS INDICATED ON STRUCTURAL DRAWINGS.
2. ALL LIGHT GAUGE METAL FRAMING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" 2007 EDITION.
3. ALL LIGHT GAUGE METAL FRAMING SHALL BE AS NOTED BELOW:
   INTERIOR AND EXTERIOR STUDS: GALVANIZED CONFORMING TO ASTM A123 COATING CLASS G60.
4. ALL LIGHT GAUGE METAL FRAMING SHALL CONFORM WITH THE FOLLOWING:

   - GALVANIZED STUDS, JOISTS, TRACKS, END CLOSURES, BRIDGING, ACCESSORIES AN STRAPS (12 (97), 14 (68) AND 16 (54) GAUGE): ASTM A653, GRADE 50, (Fy_min.= 50,000 psi, Fu_min.=65,000 psi)

   - GALVANIZED STUDS, JOISTS, TRACKS, END CLOSURES, BRIDGING, ACCESSORIES AND STRAPS (18 (43) AND 20 (33) GAUGE): ASTM A653, GRADE 33, (Fy_min.= 33,000 psi, Fu_min.=45,000 psi)

   - GALVANIZED BACKING PLATES: ASTM A653, GRADE 50, (Fy_min.= 50,000 psi, Fu_min.=65,000 psi)

5. DOUBLE VERTICAL STUDS SHALL BE STITCH WELDED TOGETHER ON BOTH FLANGES WITH 1/16" GROOVE WELDS X 1" LONG AT 12" ON CENTER, UNO ON DRAWINGS.
6. TOP AND BOTTOM STUD TRACKS FOR INTERIOR PARTITIONS SHALL BE 16 GA. MATERIAL WITH 1.5" FLANGES, UNO ON DRAWINGS.
7. TOP STUDS TRACKS FOR EXTERIOR WALLS SHALL BE 16 GA MATERIAL WITH 1.5" FLANGES: BOTTOM STUD TRACKS FOR EXTERIOR WALLS SHALL BE 16 GA MATERIAL WITH 1.5" FLANGES, UNO ON DRAWINGS.
8. DEEP LEG TRACK FOR EXTERIOR WALLS SHALL BE 16GA MATERIAL WITH 2" FLANGES, UNO ON DRAWINGS.
9. DOUBLE JOIST ARE BACK TO BACK U.N.O.
10. ALL LIGHT GAUGE FRAMING MEMBERS SHALL BE CLARK DIETRICH PER ICC-ESR 1166P
11. SUBMIT SHOP DRAWINGS FOR REVIEW.
12. ALL METAL STUDS AND JOISTS SHALL HAVE STIFFENED FLANGES. SEE DRAWINGS FOR DETAILS ON CONNECTIONS, BRACING, BRIDGING, ETC.
13. CUT FRAMING COMPONENTS, SUCH AS BRACING, SQUARELY OR AT AN ANGLE TO FIT TIGHT AGAINST ABUTTING MEMBERS. HOLD MEMBERS FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
14. ALL BEARING STUDS MUST BE FULLY ATTACHED TO THE WALL LEDGER. ALL STUDS SHALL BE SPACED AT SAME SPACING AS JOIST (IN LINE FRAMING). ALL BEARING STUDS, COLUMNS AND BUILT UP STUDS SHALL HAVE CONTINUOUS BEARING DOWN TO FOUNDATION U.N.O. SOLID BLOCKING AT FLOORS SHALL BE PROVIDED.
15. CUTTING FLANGES AND STIFFENER LIPS OF LOAD BEARING STUDS IS PROHIBITED, NO STUD NOTCHING IS PERMITTED IN BEARING WALLS U.N.O.
16. OPENING IN STUD/JOIST WEBS OTHER THAN THE STANDARD PUNCHOUTS BY MANUFACTURER ARE PROHIBITED UNLESS SPECIFICALLY DESIGNED AND DETAILED BY ENGINEER. NO PUNCHOUT SHALL BE ALLOWED WITHIN 24" OF THE SUPPORT OR POINT LOAD.
17. BRIDGING SHALL BE PROVIDED FOR ALL JOISTS @ 8'-0" O.C.MAX.
18. ATTACH STUDS USING PLUG, BUTT OR SEAM WELDS, UNLESS NOTED OTHERWISE. WHERE STUDS ARE BURNED THROUGH BY WELDING, PROVIDE SUITABLE STITCH PLATE OF SAME GAUGE. SPLICES IN AXIAL
    LOADED STUDS OR BRACES ARE NOT PERMITTED. PROVIDE BUTT WELDS OR SPLICES AT JOINTS IN TRACK. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
19. PREFABRICATED PANELS SHALL BE SQUARED AND BRACED TO AVOID RACKING. LIFT PREFABRICATED PANELS IN A MANNER SO AS NOT TO CAUSE LOCAL DISTORTION OF ANY MEMBER.
20. ALL SHEET METAL SCREWS SHALL EXTEND THROUGH METAL FRAMING AND STRUCTURAL STEEL A MINIMUM OF ¼" OR 3 EXPOSED THREADS WHICHEVER IS GREATER.
21. ALL LIGHT METAL GAUGE TO METAL FASTENERS INDICATED ON THESE DRAWINGS ARE QUICK DRIVE COLD FORMED SELF-DRILLING/SELF-TAPPING STEEL SCREWS AS MANUFACTURED BY SIMPSON STRONG-TIE (LARR 25670). SCREWS SHALL HAVE A MINIMUM EDGE DISTANCE OF ½" FASTENERS SHALL BE AS FOLLOWS:

APPLICATION	FASTENER
LIGHT GAUGE:	18 GA. OR 20 GA.-#8 MODIFIED TRUSS HEAD
TRACK TO STUD:	16 GA.-#10 PANCAKE HEAD
ALL OTHER LIGHT GAUGE METAL:	18 GA. OR 20 GA.-#8 WASHER HEAD
TO LIGHT GAUGE METAL:	16 GA.-#10 HEX WASHER HEAD CONNECTION

22. ALL LIGHT GAUGE METAL TO STRUCTURAL STEEL FASTENERS SHALL BE HILTI X-AL-H POWER DRIVEN FASTENER (LARR 25646, ICC ESR-1663):

APPLICATION	FASTENER SHANK DIA
STRUCTURAL STEEL THICKNESS < = ¼"	0.145"
¼" < STRUCTURAL STEEL THICKNESS < ¾"	0.158"
¾" < STRUCTURAL STEEL THICKNESS	0.177"

23. THE CONTRACTOR IS PROHIBITED FROM USING TORCHES TO BURN HOLES IN TRACKS OR STUDS

ABBREVIATIONS

A.B.	ANCHOR BOLTS	PLT.	PLATE / PROPERTY LINE
ARCH.	ARCHITECT OR ARCHITECTURAL	PLY.	PLYWOOD
B.N.	BOUNDARY NAILING	REINF.	REINFORCEMENT
BLK'G.	BLOCKING	REQD.	REQUIRED
BM.	BEAM	S.A.D.	SEE ARCHITECTURAL DRAWINGS
CONN.	CONNECTION	S.O.G.	SLAB ON GRADE
CONT.	CONTINUOUS	SCHED.	SCHEDULE
DWG'S.	DRAWINGS	SHT'G	SHEATHING
E.A.	EACH	SIM.	SIMILAR
E.N.	EDGE NAIL	S.M.S.	SHEET METAL SCREWS
F.N.	FINISH NAIL	STAGG.	STAGGERED
FTG.	FOOTING	T&B	TOP & BOTTOM
GLB.	GLUE-LAMINATED BEAM	TYP.	TYPICAL
L.W.	L.IGHTWEIGHT	U.N.O.	UNLESS NOTED OTHERWISE
M.B..	MACHINE BOLTS	U.S.P.	UNDER SEPARATE PERMIT
MAX.	MAXIMUM	VI.F.	VERIFY IN FIELD
MIN.	MINIMUM	WD.	WOOD
O.C.	ON CENTER	W.N.S.	WELDED NELSON STUDS
P.T.	PRESSURE TREATED	W.T.S.	WELDED TREADED STUDS

FOUNDATIONS

1. THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE BUILDING CODE MINIMUM RECOMMENDATIONS AND DEFAULT VALUES. THE OWNER MAY ELECT TO HAVE A GEOTECHNICAL ENGINEER REVIEW THE SPECIFIC SOILS ON THE SITE TO VERIFY THE DEFAULT DESIGN VALUES ARE ADEQUATE FOR BEARING, DIFFERENTIAL SETTLEMENT, PROTECTION FROM CORROSIVE SOILS, ETC. IF ANY POTENTIALLY UNFAVORABLE SOILS CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION, THE SERVICES OF A GEOTECHNICAL ENGINEER WILL BE REQUIRED.
2. THE ALLOWABLE SOIL BEARING PRESSURE IS 1,500 PSF (IN COMPETENT NATIVE SOILS OR 90% COMPACTED FILL)
3. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE. THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE ALL EXCAVATIONS, SOIL COMPACTION WORK PRIOR TO PLACEMENT OF ANY REBAR OR CONCRETE, SHORING INSTALLATIONS, BACKFILL MATERIALS AND BACK FILLING PROCEDURES.
4. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
5. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
6. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., ARE FOUND.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.

CONCRETE

1. CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS NOTED OTHERWISE. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
2. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AND A MAX WATER CEMENT RATIO W/C AS FOLLOWS:
   A. ALL CONCRETE U.N.O.: 3000 PSI NORMAL WEIGHT, W/C = 0.5
3. ALL STRUCTURAL CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED LABORATORY AND SHALL BE STAMPED AND SIGNED BY A CIVIL ENGINEER LICENSED IN CALIFORNIA.
4. CONCRETE MIXES SHALL BE PREPARED WITH TYPE II/V PORTLAND CEMENT CONFORMING TO ASTM C150. CONCRETE MIX DESIGNS CONTAINING FLY ASH MAY BE USED WHERE CONCRETE IS NOT VISUALLY EXPOSED. FLY ASH SHALL CONFORM WITH ASTM C618 AND MAY REPLACE UP TO 20% PORTLAND CEMENT BY VOLUME.
5. NORMAL WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33. LIGHT WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C330.
6. NO MORE THAN ONE GRADE OF CONCRETE SHALL BE ON THE JOB SITE AT ANY ONE TIME.
7. THOROUGHLY CLEAN AND ROUGHEN ALL HARDENED CONCRETE AND MASONRY SURFACES TO RECEIVE NEW CONCRETE. INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4" UNLESS NOTED OTHERWISE.
8. KEY AND DOWEL POUR JOINTS AS SHOWN ON THE PLANS. ANY DEVIATION FROM POUR JOINTS SHOWN ON THE PLANS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
9. NON-SHRINK CEMENT GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.
10. DEFECTIVE CONCRETE (VOIDS, ROCK POCKETS, HONEYCOMBS, CRACKING, ETC.) SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

REINFORCEMENT

1. ALL TYPICAL REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS NOTED OTHERWISE ON THE DRAWINGS (#3 BARS MAY BE GRADE 40 FOR AVAILABILITY)

A. SPIRALS SHALL BE COLD DRAWN BARS CONFORMING TO ASTM A-82. REINFORCING FOR DIAPHRAGMS AND FOUNDATIONS MAY BE GRADE 75 IN LIEU OF GRADE 60, AT THE CONTRACTOR'S OPTION. MAINTAIN OVERALL CAPACITY OF ELEMENTS WHERE GRADE 75 REINFORCING IS PROPOSED FOR USE. IN GENERAL, REDUCE REQUIRED STEEL AREA IN PROPORTION TO RATIO OF YIELD STRENGTH. MAINTAIN BAR SPACING SHOWN ON PLANS, DETAILS, AND SCHEDULES.

A. MOMENT FRAME LONGITUDINAL REBAR, SHEAR WALL VERTICAL REBAR, AND COUPLING BEAM LONGITUDINAL REBAR SHALL BE ASTM A-706 [Fy=60 KSI].

B. SMOOTH DOWELS IN SLAB ON GRADE: ASTM A36, 36 KSI

2. WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE NOT BE DONE UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWINGS, THE FOLLOWING SHALL APPLY:
   A. WELDED REBAR SHALL COMPLY WITH ASTM A-706 [Fy=60 KSI]
   B. WELDING SHALL CONFORM TO AWS D1.4
   C. WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY WELDERS CERTIFIED BY THE CITY OF LA
   D. USE E90XX ELECTRODES
3. WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A-185 [Fy=65 KSI]. MINIMUM LAP AT SPLICES OF 12 INCHES. PROVIDE MESH IN FLAT SHEETS ONLY. ROLLED MESH IS NOT ACCEPTABLE. OFFSET END-LAPS IN ADJACENT SHEETS TO PREVENT CONTINUOUS LAPS.
4. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER. SEE ACI FOR TOLERANCES:
   A. CONCRETE POURED AGAINST EARTH: 3"
   B. FORMED CONCRETE IN CONTACT WITH EARTH: 2"
   C. CONCRETE EXPOSED TO WEATHER (#6 AND LARGER): 2"
   D. CONCRETE EXPOSED TO WEATHER (#5 AND SMALLER): 1½"
   E. SLABS (INCLUDING SLAB SUPPORTING EARTH), WALLS, AND JOISTS NOT EXPOSED TO WEATHER (#11 AND SMALLER): 1"
   F. OTHER CONCRETE NOT EXPOSED TO WEATHER: 1½"
5. #5 AND LARGER REINFORCING BARS SHALL NOT BE SPLICED EXCEPT AS LOCATED AND DETAILED ON THE DRAWINGS. #4 AND SMALLER BARS WITH LENGTHS NOT SHOWN SHALL BE CONTINUOUS. PROVIDE CLASS 'B' SPLICE UNLESS NOTED OTHERWISE. ALL BARS IN MASONRY SHALL BE CONTINUOUS, LAPPING 48 BAR DIAMETERS, 2'-0" MINIMUM. HORIZONTAL WALL SPLICES SHALL BE STAGGERED. VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AT HORIZONTAL SUPPORTS, SUCH AS FLOOR OR ROOF, UNLESS DETAILED OTHERWISE. ALL BARS ENDING AT THE FACE OF A WALL, COLUMN, OR BEAM SHALL EXTEND TO WITHIN 2" OF THE FAR FACE AND HAVE A 90 DEGREE HOOK, UNLESS OTHERWISE SHOWN.
6. BARS SHALL BE FIRMLY SUPPORTED AND ACCURATELY PLACED AS REQUIRED BY THE ACI STANDARDS, USING TIE AND SUPPORT BARS IN ADDITION TO REINFORCEMENT SHOWN WHERE NECESSARY FOR FIRM AND ACCURATE PLACING. PROVIDE DOWELS TO MATCH ALL REINFORCEMENT AT POUR JOINTS, UNLESS SHOWN OR NOTED OTHERWISE. ALL DOWELS AND BOLTS SHALL BE ACCURATELY SET IN PLACE BEFORE PLACING CONCRETE. NO WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE DONE UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER. ALL SLAB AND BEAM REINFORCEMENT SHALL BE CHAIRED UP.
7. IN WALL REINFORCING, CURTAINS CONTAINING VERTICAL AND HORIZONTAL BARS OF THE SAME SIZE, VERTICAL BARS SHALL BE PLACED CLOSEST TO THE WALL SURFACE. IN CURTAINS WHICH VERTICAL AND HORIZONTAL BARS ARE OF DIFFERENT SIZES OR SPACING, THE LAYER WITH THE MOST STEEL SHALL BE PLACED CLOSEST TO THE NEAR SURFACE.
8. DRAWINGS SHOW TYPICAL REINFORCING CONDITIONS. CONTRACTOR SHALL PREPARE DETAILED PLACEMENT DRAWINGS OF ALL CONDITIONS SHOWING QUANTITY, SPACING, SIZES, CLEARANCES, LAPS, INTERSECTIONS, AND COVERAGE REQUIRED BY THE STRUCTURAL DETAILS, APPLICABLE CODE, AND TRADE STANDARDS. CONTRACTOR SHALL NOTIFY REINFORCING INSPECTOR OF ANY ADJUSTMENTS FROM TYPICAL CONDITIONS WHICH ARE PROPOSED IN PLACEMENT DRAWINGS TO FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.
9. ALL PRINCIPAL REBAR SHALL TERMINATE WITH A STANDARD HOOK MINIMUM UNLESS SPECIFICALLY DETAILED OTHERWISE. REBAR BENDS SHALL BE MADE COLD. REBAR SHALL NOT BE BENT AFTER ANY PORTION OF THE BAR IS ENCASED IN CONCRETE.
10. ALL LAP SPLICES ARE CLASS 'B' LAP SPLICES UNLESS NOTED OTHERWISE.
11. ALL WALL FOOTING REINFORCEMENT SHALL BEND AROUND ALL CORNERS AND EXTEND 36 BAR DIAMETERS OR 18 INCHES WHICHEVER IS LARGER. UNLESS NOTED OTHERWISE.
12. ALL SLABS ON GRADE LESS THAN 6" IN THICKNESS SHALL BE REINFORCED WITH #4 REBARS AT 16 INCHES ON CENTERS EACH WAY, UNLESS NOTED OTHERWISE. PROVIDE ONE (1) LAYER OF 6X6/W2.9XW2.9 WELDED WIRE FABRIC CONTINUOUS FOR EVERY 3" ARCHITECTURAL CONCRETE FILLS ABOVE THE STRUCTURAL SLAB.
13. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS LESS THAN 4" THICK SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6X6/W2.9XW2.9 WELDED WIRE FABRIC AND HAVE HOOKED DOWELS (#3 AT 12' ON CENTERS) INTO THE STRUCTURAL SLAB. UNLESS NOTED OTHERWISE. FOR PADS GREATER THAN 4 INCHES THICK, USE REINFORCING AS SHOWN IN THE TYPICAL DETAILS.
14. ADDITIONAL REINFORCEMENT SHALL BE PROVIDED AROUND ALL SLAB AND WALL OPENINGS INCLUDING DIAGONAL BARS WITHOUT EXCEPTION.
15. ALL STRUCTURAL CONCRETE ELEMENTS REQUIRE REINFORCEMENT SINCE NO PLAIN CONCRETE ELEMENTS ARE USED. ALL CONCRETE SLABS SHALL HAVE A MINIMUM REINFORCEMENT PERCENTAGE OF 0.0018 EACH WAY CONTINUOUS.

DESIGN CRITERIA

DESIGN IS BASED ON 2019 CALIFORNIA BUILDING CODE (2019 CBC).

ROOF LOADS:
LIVE LOAD: 20.0 PSF
DEAD LOAD: 18.0 PSF

FLOOR LOADS:
LIVE LOAD: N/A
DEAD LOAD: N/A

SEISMIC FACTORS:
Ss = 1.848
S1 = 0.663
SITE CLASS: D
Fa = 1.2
Fv = NULL
SDS = 1.478
SD1 = NULL
SEISMIC DESIGN CATEGORY: D
RISK CATEGORY: II
BASIC SEISMIC FORCE RESISTING SYSTEM: CONVENTIONAL PLYWOOD SHEAR WALLS.
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
R = 6.5

WIND FACTORS:
DESIGN WIND SPEED = 95 MPH
EXPOSURE CATEGORY = C
RISK CATEGORY = II
BUILDING HEIGHT = 13'-0" FT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

AMADOR WHITTLE
ARCHITECTS, INC.

REGISTERED PROFESSIONAL ENGINEER
PAUL A. LAU
No. 5430
Exp. 06/30/2022
STRUCTURAL
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOY'S LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

100% Submittal

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REVISIONS	DATE: 08/11/20
	DRAWN:
	CHECK:
	JOB NO: 19-SVUSD-031

GENERAL NOTES

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

S0.00

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MECHANICAL & ADHESIVE ANCHORS

1. EPOXY ANCHORS AND DOWELS INSTALLED INTO CONCRETE:
   A. "PURE110+" BY DeWALT (COLA RR# 26035, ESR#3298)
   B. "SET-XP" BY SIMPSON STRONG TIE (COLA RR#25744, ESR#2508)
   C. "HIT-RE 500-V3" BY HILTI, INC. (COLA RR#26028, ESR#3814)

2. EPOXY ANCHORS AND DOWELS INSTALLED INTO GROUT-FILLED MASONRY UNITS:
   A. "AC100+GOLD" BY DeWALT (COLA RR# 26049, ESR# 3200)
   B. "SET-XP" BY SIMPSON STRONG TIE (COLA RR#25965, IAPMO#265)
   C. HILTI HY-70 (ICC ESR-2682, LARR#25980)

3. EXPANSION ANCHORS INSTALLED INTO CONCRETE:
   A. "POWER-STUD+SD2" BY DeWALT (COLA RR#25831, ESR#2502)
   B. "STRONG BOLT2" BY SIMPSON STRONG-TIE (COLA RR#25891, ESR#3037)
   C. "KWIK BOLT TZ" BY HILTI, INC. (COLA RR#25701, ESR#1917)

5. EXPANSION ANCHORS INSTALLED INTO GROUT-FILLED MASONRY UNITS:
   A. "STRONG BOLT 2" BY SIMPSON STRONG-TIE (COLA RR#25936, IAPMO#240)

6. SCREW ANCHORS INSTALLED INTO CONCRETE:
   A. SIMPSON TITEN HD (LARR#25741, ICC ESR-2713)
   B. HILTI HUS (LARR#25897, ICC ESR-3027)
   C. DEWALT WEDGE-BOLT (LARR# 25808, ICC ESR-2526)

7. ADHESIVE ANCHORS: GRADE 36 THREADED ROD (F1554 GRADE 36, OR A36, OR A307-S1) WITH ASTM A 563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS NOTED OTHERWISE.

8. ADHESIVE DOWELS: ASTM A615 (OR ASTM A706) GRADE 60 REINFORCING STEEL.

9. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC-ES REPORT AND COLA REPORT AND MANUFACTURERS RECOMMENDATIONS.

10. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM EMBEDMENT OF ANCHORS PER ICC-ES REPORT, COLA REPORTS & MANUFACTURERS RECOMMENDATIONS.

11. CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL OR ADHESIVE ANCHORS. AT CONTRACTOR OPTION, OVERSIZED HOLES AND WELDED PLATE WASHERS CAN BE USED IN LIEU OF STANDARD DIAMETER HOLES. SIZE & WELD

12. PRIOR TO ALL DRILLING OR CORING, THE CONTRACTOR SHALL (1) VERIFY THE EXISTING CONCRETE OR MASONRY THICKNESS TO PREVENT DAMAGE TO THE OPPOSITE FACE OF CONCRETE AND MAINTAIN 1-1/2" CLEAR COVER U.N.O., AND (2) IDENTIFY EXISTING REINFORCING LOCATIONS BY PACHHOMETER, PROBING, CHIPPING, ETC. TO AVOID DAMAGE EXISTING REINFORCING.

13. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.

14. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.

15. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE OR GROUT HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION.

16. FOR EXTERIOR AND FOR EXPOSED APPLICATIONS PROVIDE HOT DIP GALVANIZED OR STAINLESS STEEL ANCHORS.

MASONRY

1. BLOCK SHALL BE MEDIUM WEIGHT (115 PCF) CONFORMING TO ASTM- C-90 GRADE N-1. USE UNITS OPEN ONE END, AND BOND BEAM UNITS AT HORIZONTAL REINFORCING. WHEN BLOCKS ARE EXPOSED OBTAIN APPROVAL OF SUBMITTAL FROM ARCHITECT. UNITS SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AS REQUIRED TO MEET THE MASONRY COMPRESSIVE STRENGTH OF MASONRY f'm SPECIFIED ON THE PLANS AS FOLLOWS:

   A. 2,800 PSI FOR SPECIFIED f'm UP TO 2,000 PSI
   B. 3,750 PSI FOR SPECIFIED f'm UP TO 2,500 PSI
   C. 4,800 PSI FOR SPECIFIED f'm UP TO 3,000 PSI

2. MIN. SPECIFIED COMPRESSIVE STRENGTH SHALL BE f'm = 2,000 PSI, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

3. CEMENT: ASTM C-150, LOW ALKALI, TYPE 1 OR 11 PORTLAND CEMENT. (MASONRY CEMENT AND PLASTIC CEMENT SHALL NOT BE USED)

4. MORTAR:
   A. CONFORMING TO ASTM C-270, TYPE [S].
   B. MIX PROPORTIONS SHALL CONFORM TO ASTM C-270.
   C. AGGREGATED SHALL CONFORM TO ASTM C-144.

5. GROUT:
   A. CONFORMING TO ASTM C-476.
   B. ATTAINS THE MASONRY COMPRESSIVE STRENGTH f'm OR 2,000 PSI AT 28 DAYS, WHICHEVER IS GREATER.
   C. MIX PROPORTIONS SHALL CONFORM TO ASTM C-476
   D. AGGREGATES SHALL CONFORM TO ASTM C-404
   E. USE COARSE GROUT IN GROUT SPACES 2 INCHES OR MORE IN WIDTH AND CELLS TO BE GROUTED SOLID.

6. ADMIXTURES: DO NOT USE ANY ADMIXTURES IN MORTAR OR GROUT WITHOUT APPROVAL BY THE ARCHITECT.

7. MEASURE MATERIALS FOR MORTAR AND GROUT IN CALIBRATED DEVICES. SHOVEL MEASUREMENTS ARE NOT ACCEPTABLE.

8. ADJUST THE WATER CONTENT OF THE MORTAR AND GROUT MIXES TO PROVIDE PROPER WORKABILITY UNDER EXISTING FIELD CONDITIONS WITHOUT SEGREGATION.

9. REINFORCING STEEL:
   A. REBAR: ASTM A-615, GRADE 60 (FY=60KSI).
   B. JOINT REINFORCEMENT: ASTM A-951

10. LAP REINFORCING STEEL AT SPLICES WITH A MINIMUM 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE. WHERE CLEAR DISTANCE BETWEEN BARS AT ADJACENT SPICES IS 3 INCHES OR LESS, INCREASE LAP LENGTH 30% UNLESS SPLICES ARE STAGGERED AT LEAST 24 BAR DIAMETERS.

11. DOWELS FOR WALLS AND COLUMNS SHALL MATCH SIZE AND SPACING OF WALL AND COLUMN REINFORCING STEEL.

12. MASONRY WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE LABC. AND THE 2019 MSJC SPECIFICATIONS.

13. CONCRETE BLOCK UNITS ARE TO BE STAGGERED & TO HAVE VERTICAL CONTINUITY OF CELLS UNOBSTRUCTED.

14. IF WORK IS STOPPED AN HOUR OR LONGER, PROVIDE HORIZONTAL CONSTRUCTION JOINT BY STOPPING GROUT 1½" BELOW TOP OF MASONRY UNIT.

15. SPECIAL INSPECTION IS REQUIRED FOR ALL MASONRY WORK.

16. GROUT ALL MASONRY WALLS SOLID. GROUTING LIFTS SHALL NOT EXCEED 5'-0" IN HEIGHT IN ACCORDANCE WITH 2008 MSJC SPECIFICATIONS.

17. THE CLEAR DISTANCE BETWEEN THE SURFACE OF A BAR AND ANY SURFACE OF A MASONRY UNIT SHALL BE NOT LESS THAN¾" FOR FINE GROUT AND NOT LESS THAN½" FOR COURSE GROUT.

18. SECURE REBAR AGAINST DISPLACEMENT PRIOR TO GROUTING AT INTERVALS NOT GREATER THAN 200 BAR DIAMETERS.

19. TERMINATE HORIZONTAL BARS WITH A STANDARD HOOK AT THE JAMBS OF WALL OPENINGS.

20. VERIFY SPECIFIED COMPRESSIVE STRENGTH OF MASONRY IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS: MASONRY PRISM TESTING, MASONRY PRISM TEST RECORD OR UNIT STRENGTH METHOD. FIVE MASONRY PRISM TESTS SHALL BE BUILT AND TESTED PRIOR TO CONSTRUCTION. THREE MASONRY PRISM TESTS (PER 5,000 SQ. FT. OF FLOOR AREA, 3 MIN.) SHALL BE BUILT AND TESTED DURING CONSTRUCTION WHEN FULL STRESSES ARE USED IN DESIGN.

STATEMENT OF SPECIAL INSPECTION

1. CONTINUOUS AND PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE WORK AS DESCRIBED IN CBC 2019 CHAPTER 17A. SEE INSPECTION SCHEDULE BELOW. ONLY CHECKED ITEMS ARE REQUIRED.

2. APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL OF FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.

3. FOR VERIFICATION AND INSPECTION OF SOILS SEE SOILS REPORT.

4. CONTINUOUS SPECIAL INSPECTION PER AWS D1.1 IS REQUIRED FOR ALL STRUCTURAL STEEL WELDING, EXCEPT FOR SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE. WELDING INSPECTORS SHALL BE AWS Q.C.-1 CERTIFIED.

5. STRUCTURAL WOOD. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS, AND HOLDOWNS. EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM, WHERE THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER (O.C.). INSPECTIONS SHALL BE PERFORMED BEFORE COVERING.

6. CONTRACTORS RESPONSIBLE FOR CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THIS STATEMENT OF SPECIAL INSPECTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LADBS INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH A SYSTEM OR COMPONENT PER SEC 1704A.4.

INSPECTION SCHEDULE

TYPE OF WORK	INSPECTION SCHEDULE	REMARKS	☒
CONCRETE WORK	CBC TABLE 1705A.3		☒
SHOTCRETE WORK	CBC TABLE 1705A.3		☐
REINFORCING STEEL	CBC TBL. 1705A.2.2 & 1705A.3		☒
POST INSTALL ANCHORS	CBC TABLE 1705A.3	SEE ALSO ICC APPROVAL	☒
STRUCTURAL STEEL	CBC TABLE 1705A.2		☐
STRUCTURAL STEEL WELDING	CBC TABLE 1705A.2		☐
HIGH STRENGTH BOLTING	CBC TABLE 1705A.2		☐
MASONRY WORK	CBC TABLE 1705A.4		☒
HIGH LOAD DIAPHRAGMS	CBC TABLE 1705A.5.1		☐
STRUCTURAL WOOD	CBC TABLE 1705A.10.1 & 1705A.11.2	SEE NOTE ABOVE	☐
			☐
COLD FORMED STEEL	CBC TABLE 1705A.10.2 & 1705A.11.3		☒
DRIVEN DEEP FOUND. ELEMENT	CBC TABLE 1705A.7		☐
CAST IN PLACE DEEP FOUND.	CBC TABLE 1705A.8		☐
SOIL CONDITION	CBC TABLE 1705A.6	SEE SOILS REPORT FOR COMPLIANCE	☐

GENERAL

1. ALL NEW CONSTRUCTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND THE 2019 CALIFORNIA BUILDING CODE/2017 LOS ANGELES BUILDING CODE.

2. REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.

3. TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE (U.N.O.)

4. THE STRUCTURAL DRAWINGS ILLUSTRATE THE NEW STRUCTURAL MEMBERS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRE SPECIAL PROVISIONS DURING THE CONSTRUCTION OF THE STRUCTURAL MEMBERS.

5. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEPRESSIONS, EDGE OF SLAB, OPENINGS, SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, NON-BEARING PARTITIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, OPENINGS, AND HANGERS FOR PIPES, DUCTS AND EQUIPMENT.

6. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS WHICH IMPACT THE WORK. FIELD VERIFY SIZES, ELEVATIONS, HOLE LOCATIONS, ETC. PRIOR TO FABRICATION.

7. DRAWING DIMENSIONS ARE TO FACE OF STRUCTURE, JOINT CENTERLINE OR COLUMN GRID CENTERLINE UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS.

8. CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED. VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.

9. EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.

10. THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

11. ANY DEVIATION, MODIFICATION & SUBSTITUTION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS & PRIOR TO PROCEEDING WITH THE WORK.

12. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES, GUYS, HOIST BEAM, REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE AND COMPONENTS, SOILS, OTHER STRUCTURES AND UTILITIES MAY BE SUBJECTED DURING CONSTRUCTION. SHORING SYSTEMS SHALL BE DESIGNED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.

13. THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED. SITE VISITS PERFORMED BY THE OWNER'S REPRESENTATIVE DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY CONTRACTOR.

14. THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.

15. A COPY OF ANY REQUIRED LOS ANGELES RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

16. ATTACHMENT OF NON-STRUCTURAL COMPONENTS SPECIFIED BY OTHERS TO STRUCTURAL ELEMENTS SHALL BE SPECIFIED BY THE NON-STRUCTURAL COMPONENT DESIGNER/SPECIFIER/INSTALLER. DESIGNER OF NON-STRUCTURAL ELEMENTS SHALL AT A MINIMUM SPECIFY THE CONNECTION TO THE STRUCTURE INCLUDING BUT NOT LIMITED TO: ANY TYPE OF CONNECTING HARDWARE, WIRE, HANGERS, FASTENERS, CLIPS, UNISTRUT MEMBERS. NON STRUCTURAL ELEMENTS SHALL INCLUDE, BUT NOT LIMITED TO: MEP AND HVAC EQUIPMENT & THEIR SUPPORTING PADS, PLATFORMS, FRAMES, ETC.; DUCTWORK, PIPES, CONDUITS, ARTWORK, GRILLES, GRATING, METAL SCREENS, ELEVATOR RAILS, STONE FINISH TILES, STONE CAPS, BRICK VENEER.

17. ALLOW FOURTEEN WORKING DAYS FOR PROCESSING SHOP DRAWINGS AND SUBMITTALS AFTER RECEIPT.

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DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

LICENSED ARCHITECT
DEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

AMADOR WHITTLE
ARCHITECTS, INC.

REGISTERED PROFESSIONAL ENGINEER
WILL A. LAMB
No. 5430
Exp. 06/30/2022
STRUCTURAL
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOY'S LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

100% Submittal

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS	DATE: 08/11/20
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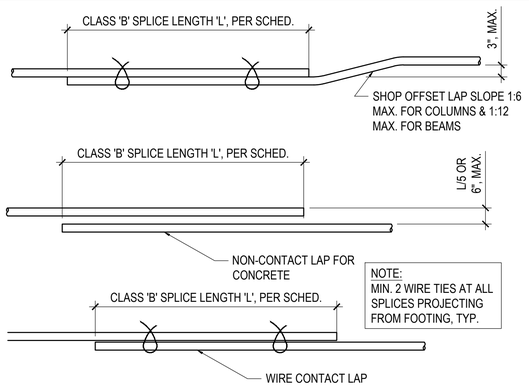
	JOB NO: 19-SVUSD-031

GENERAL NOTES

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

S0.01
___ OF ___



NOTE:
MIN. 2 WIRE TIES AT ALL SPLICES PROJECTING FROM FOOTING, TYP.

NOTES:

1. TOP BARS ARE HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE BELOW BARS.
2. BOTTOM BARS INCLUDE ALL VERTICALS, ALL HORIZONTAL WALL REINFORCING, AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF CONCRETE BELOW BARS.
3. A. USE CLASS B SPLICES U.N.O., ADJACENT BAR SPLICES SHALL BE STAGGERED THE GREATER OF THE LENGTH OF SPLICE OR 2'-0".
   B. USE CLASS C SPLICES WHERE NOTED.
   C. USE CLASS C SPLICES WHERE MORE THAN 49% OF BARS ARE TO BE SPLICED IN ONE LOCATION.
4. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZE BARS.
5. INCREASE SPLICE LENGTH BY 33% FOR LIGHTWEIGHT CONCRETE.

BAR DEVELOPMENT LENGTH (Ld) SCHEDULE

BAR SIZE	Fc' = 2500 psi		Fc' = 3000 psi		Fc' = 4000 psi		Fc' = 4500 psi	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	24"	18"	22"	17"	19"	15"	18"	15"
#4	32"	24"	29"	22"	25"	19"	24"	27"
#5	39"	30"	36"	28"	31"	24"	30"	23"
#6	47"	36"	43"	33"	37"	29"	35"	27"
#7	69"	53"	63"	48"	54"	42"	51"	40"
#8	78"	60"	72"	55"	62"	48"	59"	45"
#9	88"	68"	81"	62"	70"	54"	66"	51"
#10	98"	75"	90"	69"	78"	60"	73"	56"
#11	108"	83"	98"	76"	85"	66"	80"	62"

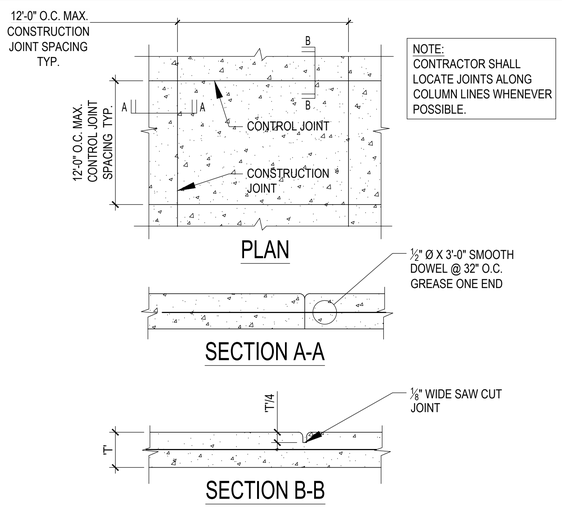
CLASS 'B' SPLICE LENGTH

BAR SIZE	Fc' = 2500 psi		Fc' = 3000 psi		Fc' = 4000 psi		Fc' = 4500 psi	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	31"	24"	28"	22"	25"	20"	23"	20"
#4	41"	32"	38"	29"	33"	25"	31"	24"
#5	51"	39"	47"	36"	41"	31"	38"	30"
#6	61"	47"	56"	43"	49"	37"	46"	35"
#7	89"	69"	81"	63"	71"	54"	67"	51"
#8	102"	78"	93"	72"	81"	62"	76"	59"
#9	115"	88"	105"	81"	91"	70"	86"	66"
#10	127"	98"	116"	90"	101"	78"	95"	73"
#11	140"	108"	128"	98"	111"	85"	104"	80"

NOTES:

1. MINIMUM SPLICE LENGTH FOR BARS WITH CLASS 'B' SPLICE PER ACI-318-14, SECTION 12.2.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" CONCRETE CAST IN THE MEMBER BOLOW THE REINFORCEMENT.
3. THESE BAR DEVELOPMENT LENGTH APPLY TO REGULAR OR NORMAL WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.33 FOR LIGHT WEIGHT CONCRETE.
4. ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THESE SCHEDULES UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.

TYP. REINF. DEVELOPMENT LENGTH & LAP SPLICE SCHEDULE — 12

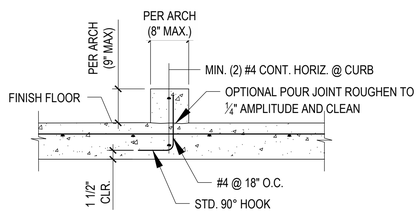


NOTE:
CONTRACTOR SHALL LOCATE JOINTS ALONG COLUMN LINES WHENEVER POSSIBLE.

JOINTS AT SLAB ON GRADE — 10

PLAN VIEW

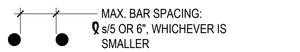
TYPICAL FLOOR CORE DETAIL — 10



NOTE:
1. SEE ARCH'L. DWGS FOR CURB LOCATION & SIZE

CONCRETE CURB DETAIL — 9

BAR SPACING FOR NON-SPLICED BARS — A



BAR SPACING FOR BARS SPLICED W/ NON-CONTACT LAP — B

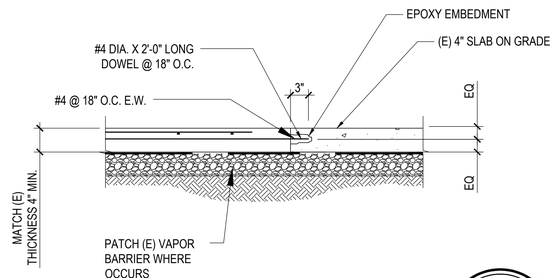
BAR SPACING — 4

NOTES:

- SLOPE TO (E) FLOOR DRAINS
- SEE ARCH FOR THICKNESS OF MORTAR BED FOR TILE ABOVE SLAB
- SEE ARCH. WALL SECTIONS FOR REINFORCED CONC. CURBS WHERE OCCUR
- CONCRETE SHALL BE 3,000 PSI
- REINFORCING SHALL BE ASTM A-615 GRADE 60
- EPOXY SHALL BE HILTI HIT-RE 500-V3 ICC ESR-3814 OR SIMPSON SET XP ICC ESR-2508

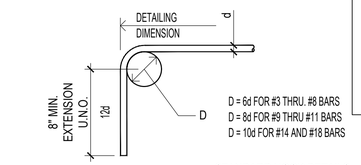
SLAB TO (E) FTG. — C

SLAB TO (E) STEP — B

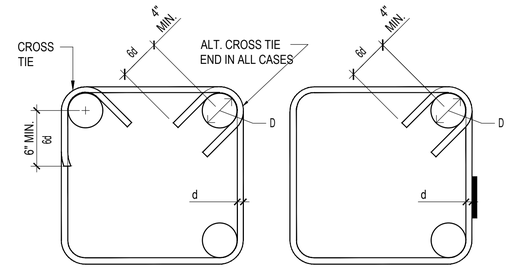


(N) TO (E) SLAB — A

REPLACEMENT SLAB ON GRADE — 6

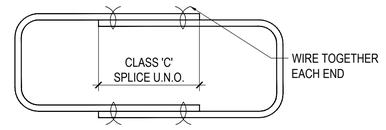


STANDARD HOOK DETAILS

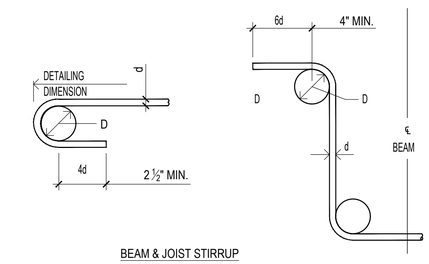


SPANDREL & BEAM SUPPLEMENTARY TIE

COLUMN & SPANDREL TIE



TIE LAP DETAIL



BEAM & JOIST STIRRUP

TYPICAL STANDARD HOOK DETAIL — 2

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DATE: 10/12/2020

AMADOR WHITTLE
ARCHITECTS, INC.

REGISTERED PROFESSIONAL ENGINEER — WILL A. LAMBERT — No. 5430 — Exp. 06/30/2022 — STRUCTURAL — STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOY'S LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

100% Submittal

REVISIONS	DATE: 08/11/20
	DRAWN:
	CHECK:
	JOB NO: 19-SVUSD-031

LICENSED ARCHITECT — JEAN ANN AMADOR — C-22205 — APRIL 30, 2021 RENEWAL DATE — STATE OF CALIFORNIA

TYPICAL DETAILS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

S0.10 ___ OF ___

- 22	- 19	- 16	- 13
- 23	- 20		CONC. PAD AT UNIT ANCHORAGE NTS 14
- 24	- 21	HSS COLUMN AT (E) SOFFIT 18	

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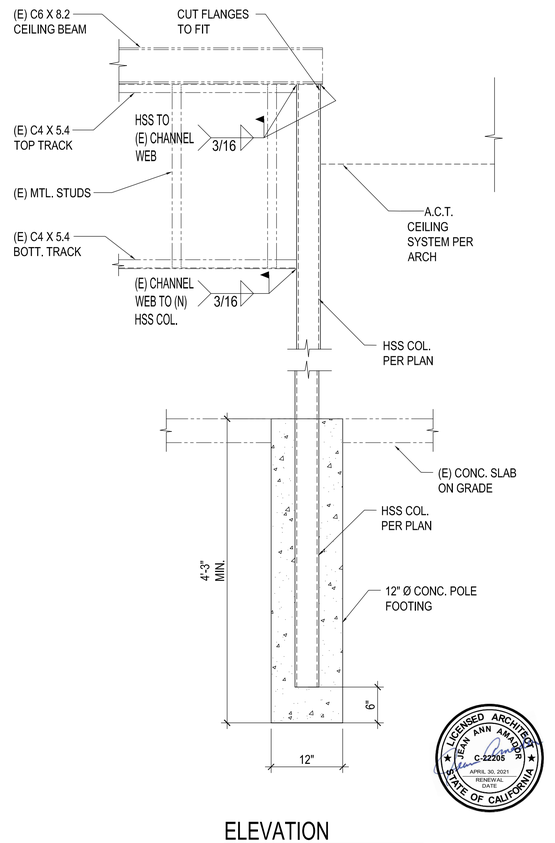
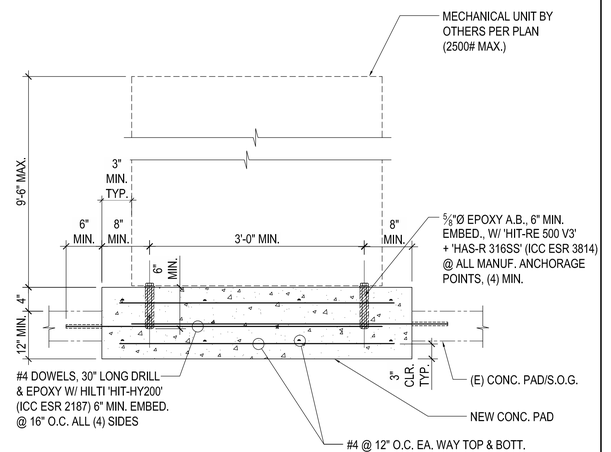


ELEVATION



AMADOR WHITTLE
ARCHITECTS, INC.

REGISTERED PROFESSIONAL ENGINEER
PAUL A. LAMB
No. 5430
Exp. 06/30/2022
STRUCTURAL
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
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ROYAL HIGH SCHOOL -
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REVISIONS	DATE: 08/11/20
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TYPICAL DETAILS

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S0.11 ___ OF ___

LICENSED ARCHITECT
JEANS ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

ALL STUD FRAMING SHALL BE 4" X 20 GA (400S16233) @ 16" O.C. MIN. TYP.

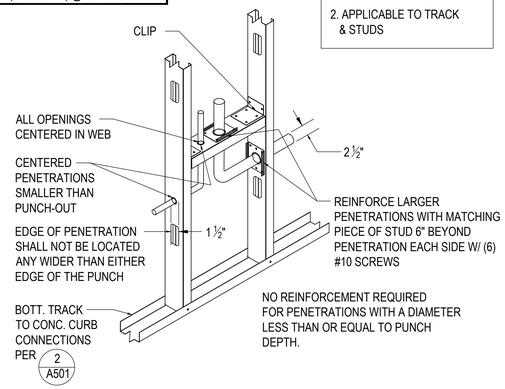
AT BATHROOM WALL TILE AREAS: STUDS SHALL BE 4" X 18 GA. (400S16243) @ 16" O.C.

CEILING JOIST SCHEDULE		
	BRACED JOIST	
STUD JOIST SIZE & SPACING	MAX SPAN	TRACK THICKNESS
362S162-33 @ 16"oc	11'-0"	33 MIL
600S162-33 @ 16"oc	14'-0"	33 MIL

ALL STUD FRAMING SHALL BE 4" X 20 GA (400S16233) @ 16" O.C. MIN. TYP.

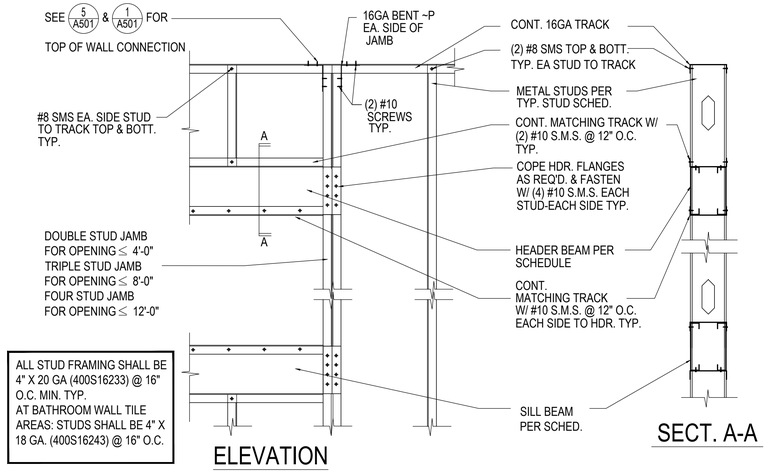
AT BATHROOM WALL TILE AREAS: STUDS SHALL BE 4" X 18 GA. (400S16243) @ 16" O.C.

NOTES:
1. FLANGES SHALL NOT BE NOTCHED OR CUT.
2. APPLICABLE TO TRACK & STUDS



TYPICAL STUD PENETRATION

NTS | 7



ELEVATION

SECT. A-A

TYP. OPENING IN INTERIOR NON-BEARING METAL STUD WALL

NTS | 1

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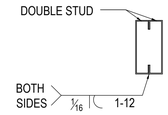
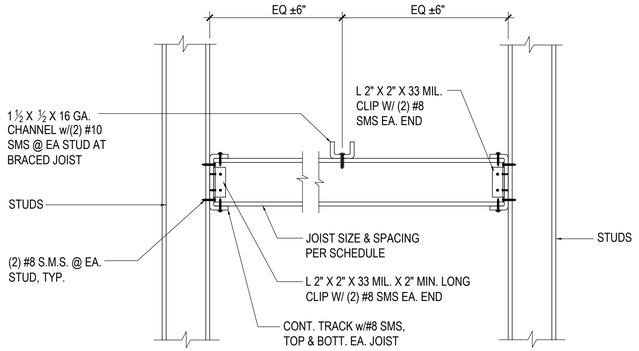
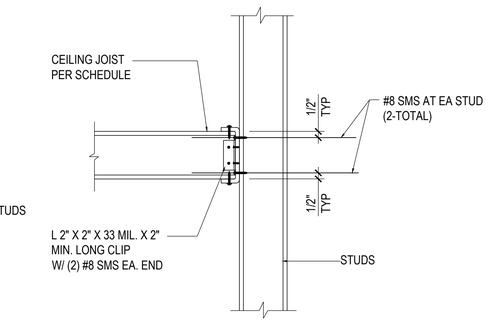
HEADER & SILL SCHEDULE	
MAX. OPENNING WIDTH	HEADER & SILL SIZE
4'-0"	362 S162-33
8'-0"	600 S162-33
12'-0"	800 S162-43



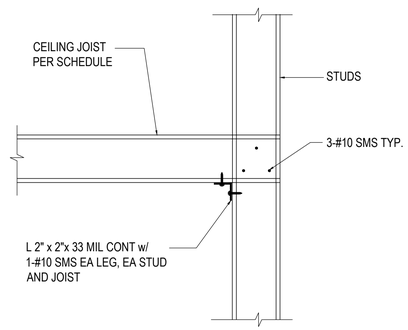
TYP. DBL. STUD MENDING



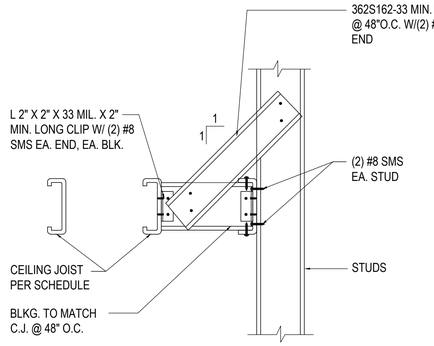
CEILING JOIST (A)



CEILING JOIST CONN TO EXTERIOR WALL (B)



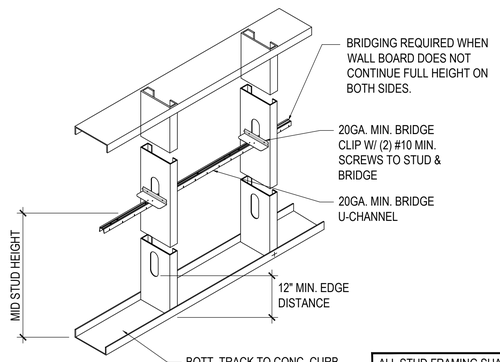
CEILING JOIST LAP CONNECTION (C)



CEILING JOIST PARALLEL TO WALL (D)

TYP. CEILING JOIST DETAIL

NTS | 9



ALL STUD FRAMING SHALL BE 4" X 20 GA (400S16233) @ 16" O.C. MIN. TYP.

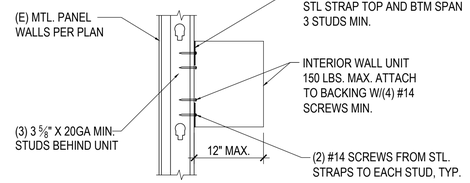
AT BATHROOM WALL TILE AREAS: STUDS SHALL BE 4" X 18 GA. (400S16243) @ 16" O.C.

STUD WALL BRIDGING

NTS | 5

ALL STUD FRAMING SHALL BE 4" X 20 GA (400S16233) @ 16" O.C. MIN. TYP.

AT BATHROOM WALL TILE AREAS: STUDS SHALL BE 4" X 18 GA. (400S16243) @ 16" O.C.

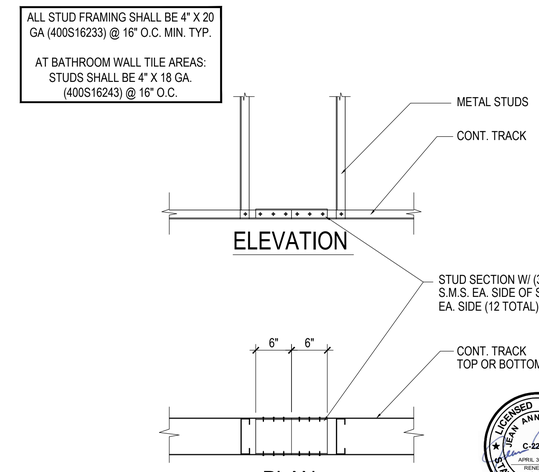


WALL MOUNTED UNIT SUPPORT DETAIL

NTS | 6

ALL STUD FRAMING SHALL BE 4" X 20 GA (400S16233) @ 16" O.C. MIN. TYP.

AT BATHROOM WALL TILE AREAS: STUDS SHALL BE 4" X 18 GA. (400S16243) @ 16" O.C.



LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

TRACK SPLICE

NTS | 2

AMADOR WHITTLE
ARCHITECTS, INC.

REGISTERED PROFESSIONAL ENGINEER PAUL A. LAMB No. 5430 Exp. 06/30/2022 STRUCTURAL STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
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(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOY'S LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

100% Submittal

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS	DATE: 08/11/20
	DRAWN:
	CHECK:
	JOB NO: 19-SVUSD-031

TYPICAL DETAILS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

S0.20

OF

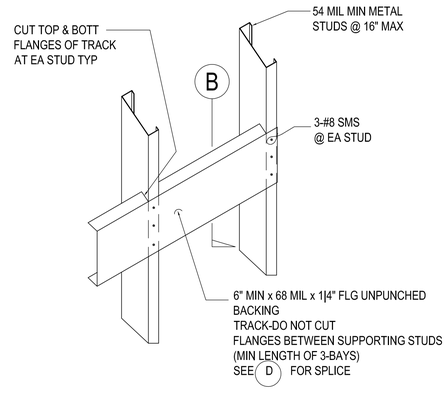
NON-BEARING STUD SCHED.				MIN. GROSS SECTION PROPERTIES		
MAX. WALL HT.	MIN. STUD SIZE (SEE NOTE 4.)	IDENTIFICATION	SPACING (O.C.)	A (IN^4)	S (IN^4)	I (IN^4)
13'-0" INTERIOR	4" x 20 GA. (6" & 8" STUDS FOR 6" & 8" WALLS)	4" x 20 GA. (6" & 8" STUDS FOR 6" & 8" WALLS)	24" O.C. MAX. (16" O.C. MAX. AT TILE FINISH)	0.275	0.346	0.692
	4" x 18 GA. AT TILE FINISH	4" x 18 GA. AT TILE FINISH		0.357	0.446	0.892
13'-0" EXTERIOR	6" x 20 GA.	6" x 20 GA.	16" O.C.	0.344	0.598	1.793
	6" x 16 GA. (WHERE REQ'D., SEE NOTE #4)	6" x 16 GA. (WHERE REQ'D., SEE NOTE #4)		0.556	0.927	2.860

SHAFT WALL STUD SCHED.				MIN. GROSS SECTION PROPERTIES		
MAX. WALL HT.	MIN. STUD SIZE	IDENTIFICATION	SPACING (O.C.)	A (IN^4)	S (IN^4)	I (IN^4)
13'-0" INTERIOR	2 1/2" x 20 GA	2-1/2" CT STUD 20GA	24" O.C. MAX.	0.248	0.168	0.241

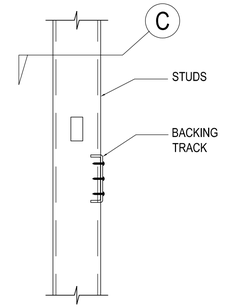
FURRING WALL STUD SCHED.				MIN. GROSS SECTION PROPERTIES		
UNBRACED HT.	MIN. STUD SIZE	IDENTIFICATION	SPACING (O.C.)	A (IN^4)	S (IN^4)	I (IN^4)
7'-0" INTERIOR	1 5/8" x 20 GA	162S125-33	24" O.C. MAX.	0.145	0.083	0.067
7'-0" INTERIOR	2 1/2" x 20 GA	250S125-33	24" O.C. MAX.	0.176	0.142	0.178

NOTES:
1. STUD SIZE BASED ON L/360 DEFLECTION LIMIT FOR EXT. WALLS, L/240 FOR INT. WALLS WITH NO ROCK OR MASONRY VENEER ATTACHED TO THE WALL.
2. STUD FLANGES ON BOTH SIDES OF THE WALL ARE CONT. ATTACHED TO GYP. BOARD, PLY., OR MTL. SIDING. WHERE CONT. ATTACHMENT DOES NOT OCCUR, PROVIDE HORIZONTAL STRAPS PER TYP. STRAPPING DETAIL
3. MAX. WALL HEIGHT IS THE MAXIMUM VERTICAL SPAN OF THE STUD BETWEEN ATTACHMENTS TO STRUCTURE OR DIAGONAL BRACES.
4. USE 16GA MIN. STUDS AT 16" O.C. MAX. AT ATTACHMENTS OF EQUIPMENT, CABINETS, TOILET PARTITIONS, & LOCKERS.
5. FOR STUD AND TRACK CONNECTION DETAILS AT TOP OF WALL SEE 1/A501 & 5/A501
6. FOR STUD AND TRACK CONNECTION DETAILS AT BOTTOM OF WALL SEE 2/A501 & A505

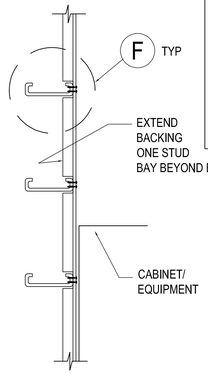
METAL STUD SCHEDULE | 20



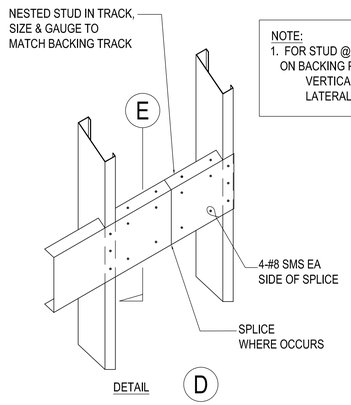
DETAIL A



SECTION B

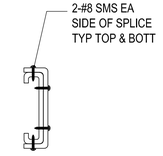


PLAN VIEW C

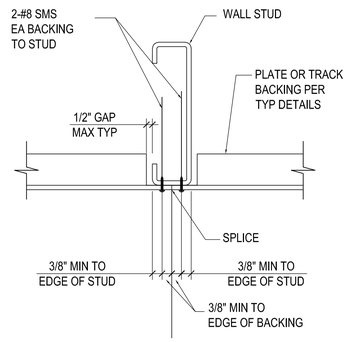


DETAIL D

NOTE:
1. FOR STUD @ 24" ALLOWABLE LOADS ON BACKING PER 24" OF WALL LENGTH:
   VERTICAL = 400#
   LATERAL = 200#



SECTION E



PLAN VIEW F

NOTE:
1. FOR ALTERNATE SPLICE SEE DETAIL F

TYPICAL BACKING DETAIL | NTS | 14

AMADOR WHITTLE
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ROYAL HIGH SCHOOL - BOY'S LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

100% Submittal

REVISIONS	DATE: 08/11/20
	DRAWN:
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	JOB NO: 19-SVUSD-031

TYPICAL DETAILS

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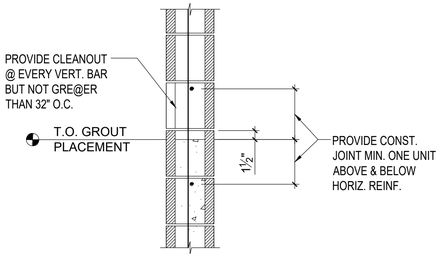
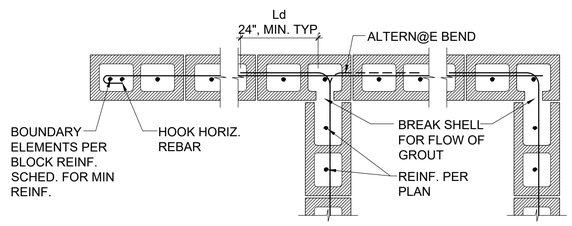
S0.21

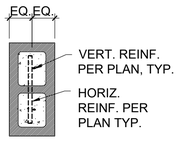
___ OF ___



NOTE:
1. PROVIDE CONSTRUCTION JOINTS WHEN GROUTING IS STOPPED FOR MORE THAN 1 HOUR.

TYPICAL HORIZ. CONSTRUCTION JOINT — NTS — 10



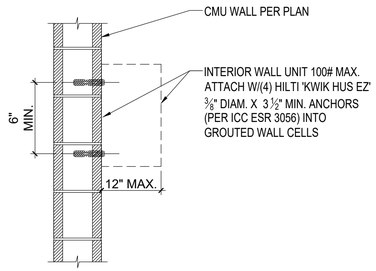


TYP. PLAN VIEW

MINIMUM REINF. IN CONCRETE BLOCK WALL (SEE NOTE 1)			
WALL THICK.	HORIZ. REINF.	VERT. REINF.	JAMB, HEAD, SILL & END OF WALL REINF
8" BLOCK	#4 @ 24"O.C.	#4 @ 24"O.C.	(2) #4

NOTES:
1. WHERE REINFORCING IS NOT OTHERWISE SHOWN ON PLANS AND DETAILS
2. REINF. TO BE PLACED @ MID DEPTH. TYP.

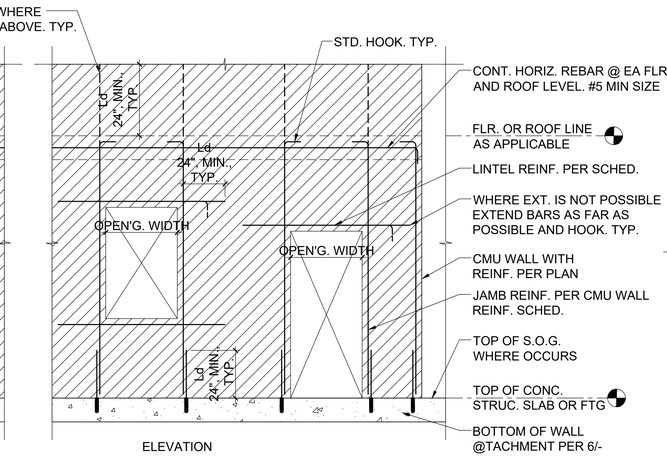
REINFORCING STEEL @ CMU WALL — NTS — 7



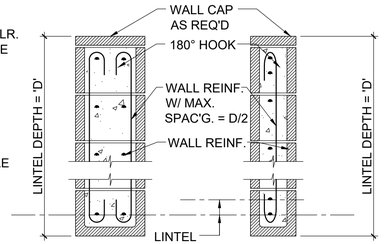
WALL MOUNTED UNIT SUPPORT DETAIL — NTS — 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

NTS — 1



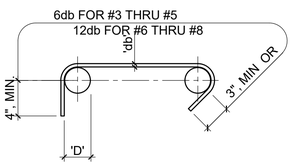
ELEVATION



LINTEL REINF. SCHED.			
OPN'G WIDTH	MIN. DEPTH 'D'	REINF.	NOTES
UP TO 5'-0"	18"	(2) #4	(2) #4 BARS @ TOP & BOTT.
5'-1" TO 7'-0"	24"	(2) #5	(2) #5 BARS @ TOP & BOTT.
7'-1" TO 10'-0"	24"	(2) #6	(2) #6 BARS @ TOP & BOTT.

TYPICAL MINIMUM REINF. @ CMU WALL OPENINGS AND LINTELS — NTS — 8

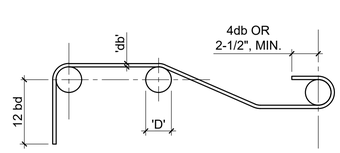
OFFSET & SPLICES



STANDARD HOOK DETAILS FOR STIRRUPS & TIES

MIN. BEND DIA. (STIRRUPS & TIES)

BAR	D
#3	1 1/2"
#4	2"
#5	2 1/2"
#6	4 1/2"

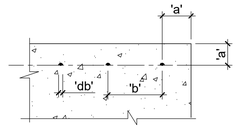


MIN BEND DIA. (PRINCIPAL REINF.)

D = 6db FOR #3 THRU #8
D = 8db FOR #9

STANDARD HOOK DETAILS

FOR PRINCIPAL REINF.



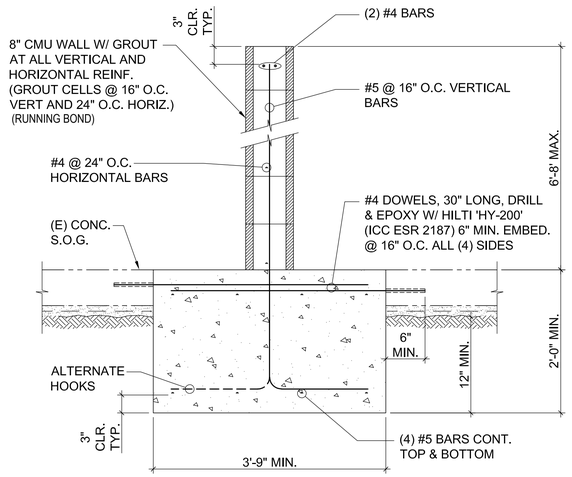
WHERE: 'a' IS THE CLEAR COVER
'b' IS THE CLEAR SPACING
'db' IS THE BAR DIA.

TENSION LAP SPLICE SCHED.

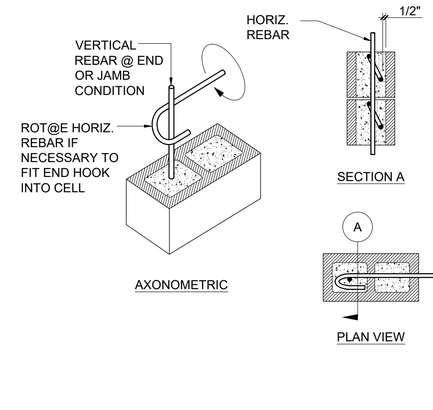
DEVELOPMENT LENGTH (ld) / LAP SPLICE								
BAR SIZE	1500 PSI CMU f'm		2000 PSI CMU f'm		2500 PSI CMU f'm		3000 PSI CMU f'm	
	1-LAYER	(2) LAYER	1-LAYER	(2) LAYER	1-LAYER	(2) LAYER	1-LAYER	(2) LAYER
#3	16	16	14	14	12	12	11	12
#4	21	26	18	22	16	20	15	18
#5	26	40	22	35	20	31	18	28
#6	49	74	42	64	38	58	34	53

NOTES:
1. LENGTHS SHOWN ARE FOR GRADE 60 UNCO@ED BARS.
2. LENGTHS SHOWN ARE IN INCHES.
3. BAR BUNDLES ARE NOT ALLOWED

TYPICAL MASONRY REINF. DETAILS AND TENSION LAP SPLICE SCHED. — NTS — 9



FREESTANDING CMU WALL — NTS — 6



LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

HOOK ARRANGEMENT @ WALL END — NTS — 2

AMADOR WHITTLE
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ROYAL HIGH SCHOOL - BOY'S LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

100% Submittal

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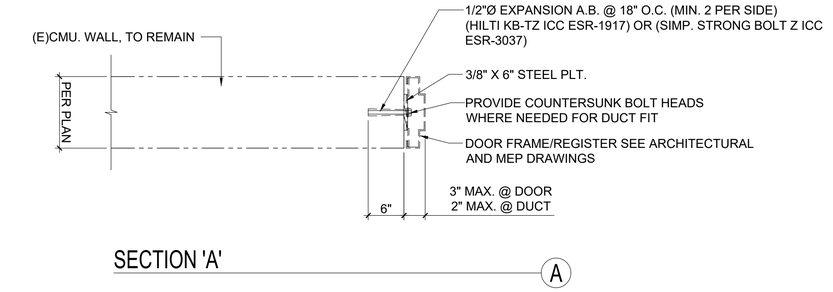
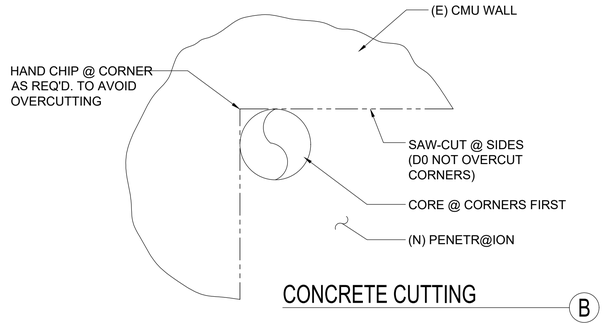
S0.30 — OF —



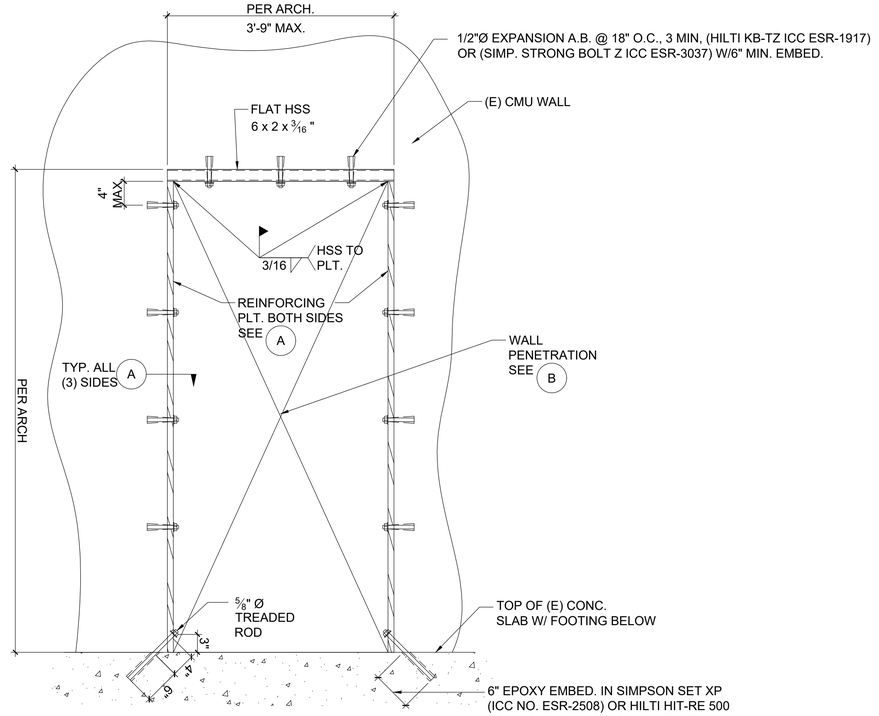
SECTION 'A'

A



CONCRETE CUTTING

B



ELEVATION VIEW

DOOR OPENING

C

NEW DOOR OPENING IN (E) CMU WALL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
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RAUL A. LAMAS
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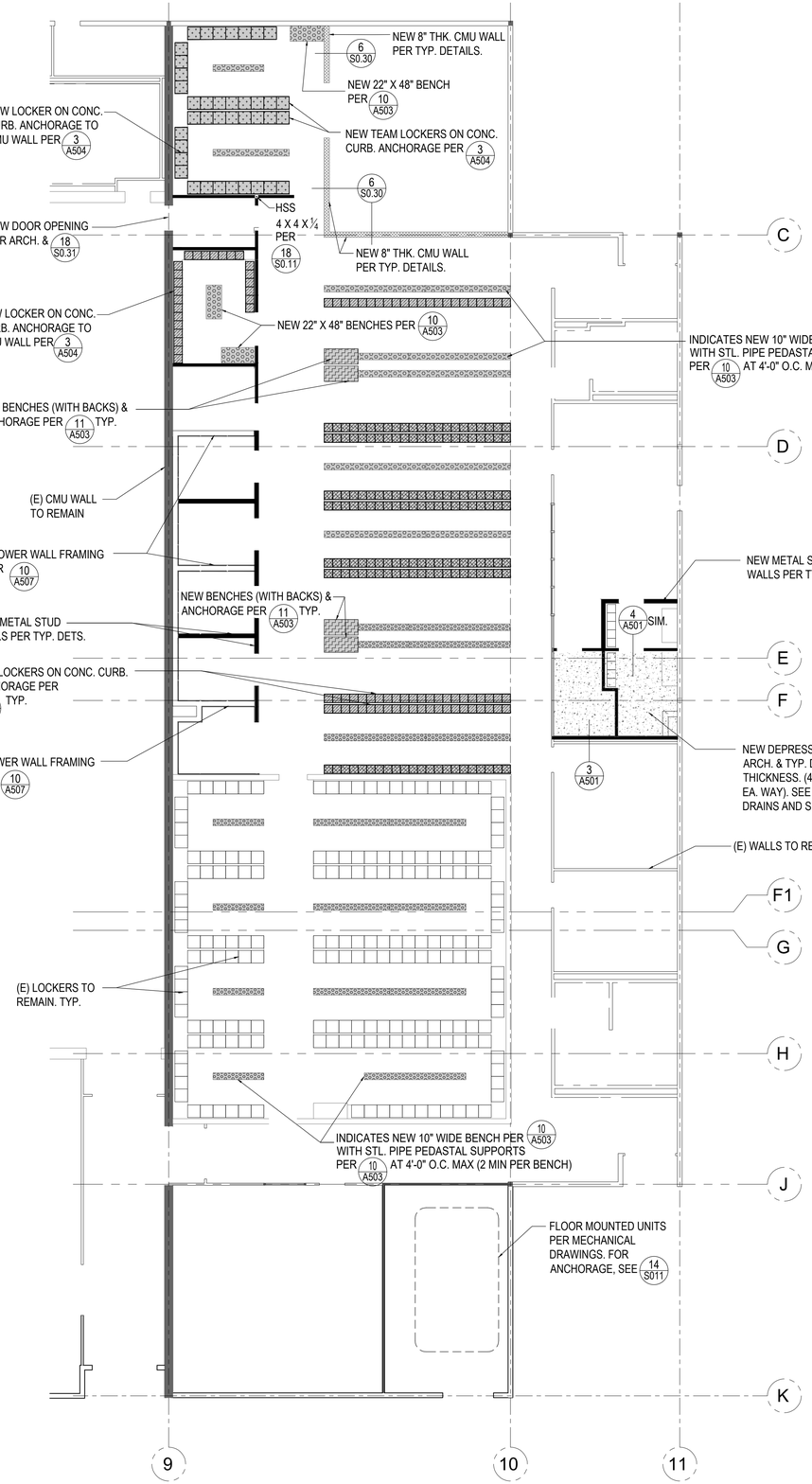
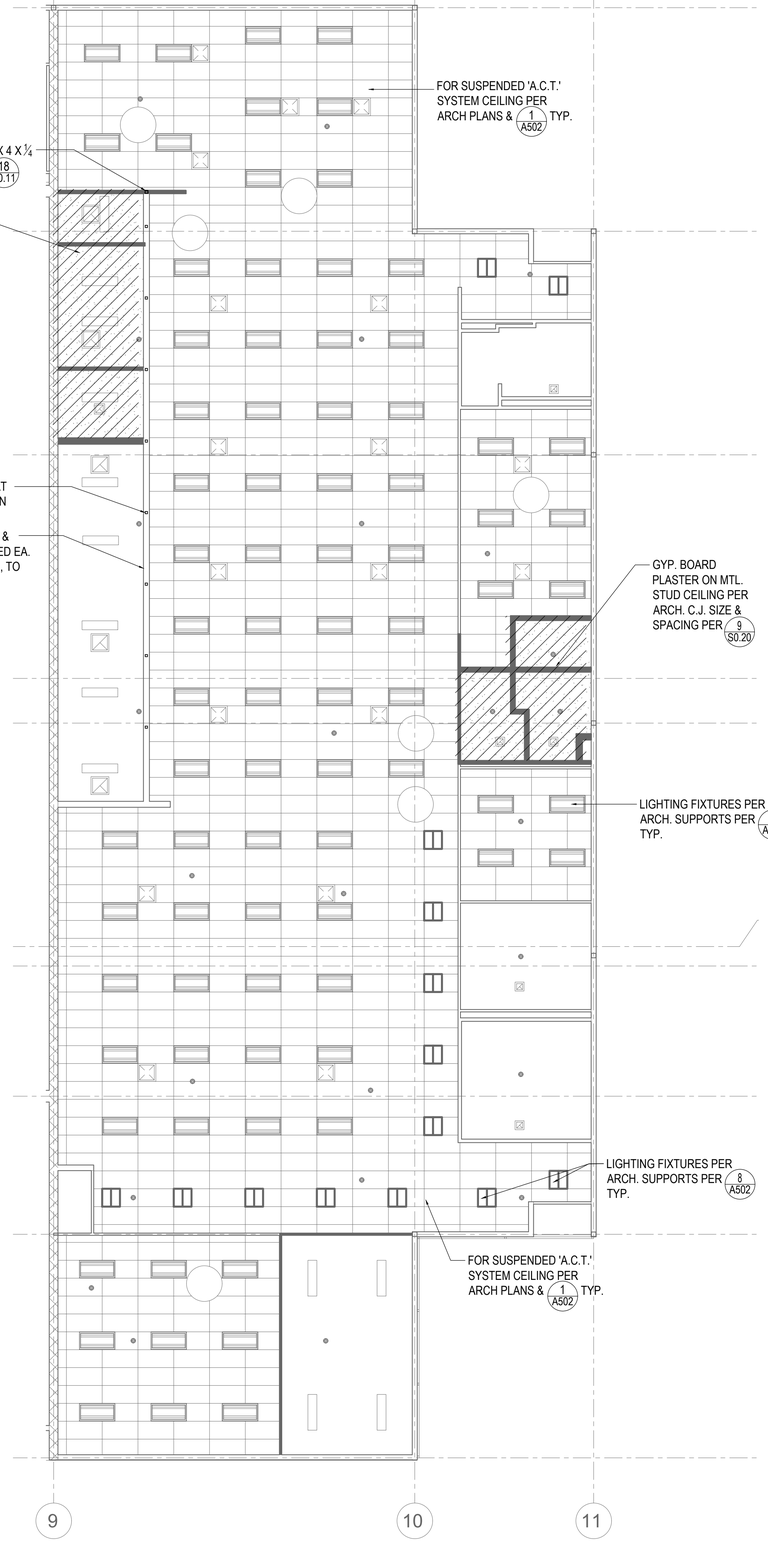
S0.31

___ OF ___

- NTS 22
- NTS 23
- NTS 24
- NTS 13
- NTS 14
- NTS 18



1 FLOOR PLAN
1/8" = 1'-0"



2 REFLECTED CEILING PLAN
1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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LEGEND

- (E) WALL TO REMAIN
- INDICATES NEW METAL STUDS WALLS PER TYPICAL DETAILS AT S0.20 & S0.21
- NEW 8" THK. CMU WALLPER TYP. DETAILS & 6 S0.30
- INDICATES NEW 12" WIDE LOCKERS ON CONCRETE CURB.
- INDICATES NEW 18" WIDE TEAM LOCKERS ON CONCRETE CURB
- (E) LOCKERS TO REMAIN
- INDICATES NEW 10" WIDE BENCH PER 10 A503 WITH STL. PIPE PEDASTAL SUPPORTS PER 10 A503 AT 4'-0" O.C. MAX (2 MIN PER BENCH)
- INDICATES NEW 22"X48" BENCHES WITH BACKS PER 11 A503
- INDICATES NEW 22"X48" BENCHES PER 10 A503

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

NORTH

0' 4' 8' 16' 32'

AMADOR WHITTLE
ARCHITECTS, INC.

REGISTERED PROFESSIONAL ENGINEER
PAUL A. LAMB
No. 5430
Exp. 06/30/2022
STRUCTURAL
STATE OF CALIFORNIA

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ROYAL HIGH SCHOOL - BOY'S LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

100% Submittal

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS	DATE: 08/11/20
	DRAWN:
	CHECK:
	JOB NO: 19-SVUSD-031

FLOOR AND REFLECTED CEILING PLANS

S1.04

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

___ OF ___

GENERAL NOTES

WORK INCLUDED: ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM AS INDICATED AND DESCRIBED HEREIN.

GENERAL: THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL NECESSARY OFFSETS AND BENDS THAT MAY BE REQUIRED. THE LOCATION OF ALL DUCTS, CONDUIT, EQUIPMENT, AND RELATED ITEMS SHALL BE VERIFIED IN THE FIELD. OBTAIN AND PAY FOR METER PERMITS, FEES, TESTS, AND INSPECTIONS REQUIRED IN CONNECTION WITH WORK. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL GOVERNING CODES AND ORDINANCES. THE EQUIPMENT AND FIXTURE ROUGH–INS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE OWNER MAY SUBSTITUTE, OR THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS AND ROUGH–IN REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATIONS DIRECTLY UPON THE CONTRACTOR.

DISCREPANCIES: IN THE EVENT THAT THE CONTRACTOR FINDS DISCREPANCIES OR OMISSIONS, OR IS IN DOUBT AS TO THE EXACT MEANING OF THE PLANS AND/OR SPECIFICATIONS, HE SHALL, BEFORE COMMENCING WORK, CONTACT THE MECHANICAL ENGINEER THROUGH THE ARCHITECT FOR CLARIFICATION. DEFECTIVE WORK: IF INSPECTION OR TESTS SHOW DEFECTS, REPLACE SUCH DEFECTIVE WORK OR MATERIAL AND REPEAT INSPECTION AND TESTS. MAKE REPAIRS TO PIPING WITH NEW MATERIAL. NO CAULKING OF SCREWED JOINTS OR HOLES WILL BE ACCEPTABLE.

SUBMITTALS: WITHIN 30 DAYS AFTER AWARD OF CONTRACT, SUBMIT A COMPLETE LIST (PARTIAL NOT ACCEPTABLE) OF EQUIPMENT OF MAJOR ITEMS OF EQUIPMENT AND MATERIAL. SUBMITTALS SHALL INCLUDE THE MANUFACTURER'S SPECIFICATIONS, PHYSICAL DIMENSIONS AND RATINGS CLEARLY IDENTIFIED BY SAME IDENTIFICATION SCHEDULED ON DRAWINGS.

SUBSTITUTIONS: IF THE CONTRACTOR DESIRES TO USE MATERIAL OF EQUAL QUALITY OTHER THAN THAT SPECIFIED, HE SHALL HAVE REQUESTED IN WRITING APPROVAL OF EACH SUCH SUBSTITUTION AND RECEIVED APPROVAL PRIOR TO BID OPENING. A CONTRACTOR OFFERING A SUBSTITUTION SHALL ACCEPT RESPONSIBILITY FOR ITS EFFECT ON THE WORK OF ALL TRADES. ALL COSTS OF CHANGES RESULTING FROM THE INCLUSION OF SUBSTITUTIONS SHALL BE PAID BY THE CONTRACTOR WHO REQUESTED SUCH SUBSTITUTION.

ADEQUATELY SUPPORT PIPING AGAINST SAGGING, POCKETING, SWAYING AND DISPLACEMENT. HANG FROM SPLIT RING HANGERS AT 8 FT. ON CENTER. INSTALL TRISOLATOR #500 ISOLATORS AROUND INSULATED COPPER PIPE. SIZE ALL HANGERS ON INSULATED LINES TO FIT OUTSIDE DIAMETER OF INSULATION WITH ALLOWANCE FOR SHEET METAL SHIELD.

FLUSH WATER SYSTEMS COMPLETELY AND DRAIN: STERILIZE DOMESTIC WATER LINES WITH 0.6 OZ. CALCIUM HYPOCHLORITE PER 100 GALLONS FOR 12 HOURS AND FLUSH.

ACCESSIBILITY: INSTALL BALL OR GATE VALVES AT ALL CONNECTIONS TO EQUIPMENT AND ELSEWHERE AS MAY BE INDICATED FOR COMPLETE CONTROL OR ISOLATION OF ANY EQUIPMENT OR SERVICE TO BRANCH LINES, POSITION VALVES IN ACCESSIBLE LOCATION AND OF SAME SIZE AS PIPING. PROVIDE DIELECTRIC FITTINGS FOR CONNECTIONS TO DISSIMILAR MATERIALS.
INSTALL PIPING AS CLOSE AS POSSIBLE TO LAYOUT SHOWN. WHERE CONFLICTS WITH OTHER TRADES OCCUR, REVISIONS SHALL BE APPROVED IN WRITING BY THE ARCHITECT.

LOCATE ALL CLEAN–OUTS, GAUGES, VALVES, AND EQUIPMENT REQUIRING FREQUENT READING, ADJUSTMENTS, REPAIRS, OR REPLACEMENT IN A CONVENIENT LOCATION. INSTALL PIPING IN WALLS, PARTITIONS, AND FURRED SPACES UNLESS NOTED OTHERWISE. INSTALL SLEEVES FOR ALL PIPES PASSING THROUGH WALLS, BEAMS, ETC., AS THEY ARE BEING CONSTRUCTED. NO HOLES SHALL BE CUT THROUGH STRUCTURAL MEMBERS.

CONTRACTOR SHALL VERIFY EXACT LOCATION AND NUMBER OF PLUMBING FIXTURES FROM ARCHITECTURAL DRAWINGS. ALL COSTS NECESSARY TO FURNISH AND INSTALL ADDITIONAL FIXTURES SHOWN ON ARCHITECTURAL SHALL BE INCLUDED IN CONTRACTOR'S BID PRICE.

INSPECTIONS/TESTING: TEST SOIL, WASTE, VENT AND WATER PIPING SYSTEMS IN ACCORDANCE WITH LOCAL CODE, AND OBTAIN APPROVAL OF ARCHITECT. COMPLETE AND TEST PIPE ROUGH–IN BEFORE INSULATING OR BACKFILLING. IF INSPECTION OR TESTS SHOW DEFECTS, REPLACE DEFECTIVE WORK AND RETEST.

UTILITY SURVEY: THE PLUMBING CONTRACTOR SHALL VERIFY THE LOCATION, CONDITION, AND INVERT ELEVATIONS OF EXISTING PLUMBING WASTE, VENT, AND WATER PIPING PRIOR TO CONSTRUCTION. USE LOCAL SURVEY SERVICES TO VERIFY LOCATION OF UTILITIES (INCLUDING ANY EXISTING ELECTRICAL CONDUIT) INSIDE THE BUILDING PRIOR TO BEGINNING WORK. FAILURE OF THE CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO BIDDING THESE DOCUMENTS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT REPAIRS, RELOCATIONS, OR REVISIONS DIRECTLY UPON THE CONTRACTOR.

OFFSET VENTS THROUGH THE ROOF A MINIMUM OF 10'–0" FROM FRESH AIR OR MECHANICAL EQUIPMENT INLETS.

ROUGH–IN ALL WASTE AND SUPPLIES TO PLUMBING EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. SUPPLIES SHALL BE VALVED.

COLD & HOT WATER PIPING: ABOVE OR BELOW GRADE (NOT UNDER CONCRETE), TO BE TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS AND 95/5 TIN–ANTIMONY (LEAD FREE) SOLDER. PIPING BELOW GRADE UNDER CONCRETE, TO BE TYPE "K" SOFT DRAWN. ALL JOINTS SHALL BE MADE ABOVE THE SLAB. WRAP PIPE BELOW GRADE WITH 20 MIL POLYETHYLENE TAPE.

DOMESTIC WATER VALVES: USE BALL VALVES INSIDE BUILDING UP THRU 2" (RED–WHITE #5044/5049). VALVES 2–1/2" AND LARGER SHALL BE RESILIENT WEDGE, EPOXY COATED GATE VALVES. PROVIDE OS&Y VALVE FOR AFS SERVICE.

SANATARY WASTE & VENT PIPING:
SERVICE WEIGHT CAST IRON WITH NO–HUB FITTINGS ABOVE & BELOW GRADE.

PROJECT CLOSEOUT: THE PLUMBING CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF EQUIPMENT. THE CONTRACTOR SHALL PROVIDE TWO (2) COPIES OF A BOUND OPERATING AND MAINTENANCE MANUALS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE MANUAL SHALL INCLUDE A PARTS LIST WITH NOMENCLATURE, MAINTENANCE SCHEDULE, AND NAME, ADDRESS, AND PHONE NUMBER OF THE LOCAL PRODUCT REPRESENTATIVE.

GUARANTEE: ALL LABOR AND MATERIALS FURNISHED OR INSTALLED UNDER THIS SECTION SHALL CARRY A WRITTEN ONE (1) YEAR GUARANTEE BY THE PLUMBING CONTRACTOR TO THE OWNER, COVERING MATERIALS AND WORKMANSHIP IN FULL. EXISTING EQUIPMENT/FIXTURES REUSED IN THIS PROJECT ARE NOT COVERED BY THIS GUARANTEE.

SITE NOTES

1. THE EXISTING CONDITIONS OF ABOVE GROUND STRUCTURES SUCH AS BUILDINGS, FENCES, CONCRETE PAVEMENT SLABS, EQUIPMENT SUPPORT PADS AND DRIVEWAYS AS SHOWN ON THE PLANS ARE TAKEN FROM EXISTING RECORD DRAWINGS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ACCURATELY LOCATE ANY ABOVE GROUND STRUCTURE THAT MAY INTERFERE WITH THE INSTALLATION OF THE WORK. ANY DAMAGE TO EXISTING STRUCTURES RESULTING FROM THIS WORK SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO OWNER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE ANY AND ALL UTILITIES.
3. THE CONTRACTOR SHALL FOLLOW THE LAYOUT SHOWN ON THE DRAWINGS WHEN POSSIBLE. IF CONDITIONS DICTATE SIGNIFICANT REVISIONS, CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM ENGINEER.
4. THE CONTRACTOR SHALL USE SUFFICIENT BARRICADES AND TEMPORARY PROTECTION DEVICES TO PREVENT PEDESTRIANS OR UNAUTHORIZED INDIVIDUALS ACCESS TO ANY CONSTRUCTION ACTIVITY.

SPECIAL NOTES FOR DEMOLITION

1. CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING.
2. THE PLAN DRAWINGS SHOW MOST OF THE COMPONENTS AND ITEMS FOR GENERAL INFORMATION ONLY. THIS INFORMATION SHALL NOT BE THE ONLY BASIS FOR ESTIMATION.
3. WHEN CEILING SYSTEMS, EQUIPMENT SUPPORT SYSTEMS, LIGHTING FIXTURES, J–BOXES, OR OTHER ITEMS ARE REQUIRED TO BE REMOVED TO PERFORM THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BROKEN OR DAMAGED ITEMS, INCLUDING PATCHING WALLS AND PAINTING AS REQUIRED, TO BRING THE AREA TO ITS ORIGINAL CONDITION.
4. WHEN PROJECT REQUIRES PENETRATION OF EXISTING WALLS, CEILINGS OR FLOORS, FINISH SHALL BE RESTORED TO ORIGINAL CONDITION.
5. WHEN PAINTING RESTORED WALLS AND CEILINGS PAINT ENTIRE AREA TO ASSURE THAT PAINT COLOR IS CONSISTENT.

NOTES:

1. PRIOR TO ANY INTERRUPTION (PLANNED OR NOT PLANNED) OF UTILITY SERVICES CONTRACTOR SHALL DETERMINE ANY NON PROPERLY FUNCTIONING FIXTURES, EQUIPMENT, VALVE AND RELATED ACCESSORIES AND RETURN SYSTEM TO ITS ORIGINAL PRE–INTERRUPTION FUNCTIONAL CONDITION, EXCEPT FOR DEMOLISHED (AS PER OAR) NON–FUCTIONING FIXTURES, EQUIPMENT, VALVES AND ACCESSORIES AT NO ADDITIONAL CHARGE TO THE DISTRICT.

MEP Component Anchorage Notes:

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapter 13,26 and 30.

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

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

A. Components weighting less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighting less than 20 pounds, or in the case of distributed system, 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 above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacement 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 2019 CBC, Sections 167A.1.24, 1617A.1.25 and 1617A.1.26.

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

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

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

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

WATER USAGE CALCULATION

1. EXISTING PLUMBING FIXTURES;

SHOWERS	14 AT 1.5 GPM EACH
BATHTUB/SHOWER	1 AT 5 GPM (BATHTUB)
LAVATORYS	1 AT 1.0 GPM
URINALS	1 AT 1.0 GALLONS PER FLUSH
WATER CLOSETS	1 AT 1.6 GALLONS PER FLUSH
TOTAL USAGE	25 GPM + 2.6 GALLONS PER FLUSH

2. NEW PLUMBING FIXTURES;

SHOWERS	17 AT 1.0 GPM EACH
SHOWER	1 AT 1.2 GPM
LAVATORYS	1 AT 0.4 GPM
URINALS	0
WATER CLOSETS	1 AT 1.28 GALLONS PER FLUSH
TOTAL USAGE	18.6 GPM + 1.28 GALLONS PER FLUSH

SUMMATION: TOTAL WATER USAGE REDUCED (25 GPM PREVIOUS VS. 18.6 GPM NEW FLOW RATE).

APPLICABLE CODES AND REGULATIONS

CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24:

Part 1–2019 California Building Standards Administrative Code

Part 2–2019 California Building Code (CBC), Volumes 1 and 2

Part 4–2019 California Mechanical Code (CMC)

Part 5–2019 California Plumbing Code (CPC)

Part 12–2019 California Reference Standards

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
	S/W	SOIL/WASTE
	S/W	SOIL/WASTE BELOW FLOOR/GRADE
	V	VENT
	CW	COLD WATER
	HW	HOT WATER (140° F MAX.)
	HWR	HOT WATER RETURN
G	G	NATURAL GAS (7" WC)
TP	TP	TRAP PRIMING PIPING
IW	IW	INDUSTRIAL WATER
CD	CD	CONDENSATE DRAIN
FW	FW	FILTERED WATER PIPING
	FD	FLOOR DRAIN
	FS	FLOOR SINK, HALF OR FULL GRATE AS SHOWN ON DWGS.
	COTG	CLEANOUT TO GRADE
	FCO	FLOOR CLEANOUT
	CO	CLEANOUT
	WCO	WALL CLEANOUT
	——	UNION
	GV	GATE VALVE
	CKV	CHECK VALVE
	BV	BAWL VALVE
	GC	GAS COCK
	PRV	PRESSURE REDUCING VALVE
	AP	ACCESS PANEL
E	——	EXISTING UTILITY (W, V, G, SS)
	HB	HOSE BIBB
——	I.E.	INVERT ELEVATION
——	VTR	VENT THRU ROOF
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
——	CONN.	CONNECTION OR CONNECT
——	FF.	FINISH FLOOR
——	FLR.	FLOOR
——	EXIST.	EXISTING
——	MTD.	MOUNTED
——	U/G	UNDERGROUND
——	FR.	FROM
——	BEL.	BELOW
——	AFF.	ABOVE FINISHED FLOOR
1 / P1.1	——	DETAIL NO./ SHEET NO.
	——	REMOVE EXISTING PIPING/FIXTURE

WATER HEATER CALCULATION

1. HOT WATER FLOW RATE IS 17.0 GPM (@ 1.0 GPM/HEAD) (75%HW/25%CW).
2. TOTAL TIME FOR SHOWER IS 10 MINUTES.
3. 170 GALLONS REQUIRED OF 110° HW (60°ΔT).
4. (E) WATER HEATER IS 100 GALLONS– 80% USAGE.
5. 80 GALLONS AVAILABLE– 170 REQUIRED.
6. ADDITIONAL RECOVERY REQUIRED– 90 RECOVERY/10 MINUTES.
7. 390,000 BTU INPUT AVAILABLE= 106.6 GALLONS IN 10 MINUTES.
8. 106.6 REC + 80 STORAGE= 186.6 GALLONS AVAILABLE FOR 10 MINUTES.
9. 186.6 AVAILABLE– 170 REQUIRED= 16.6 SURPLUS FOR 10 MINUTES.

IDENTIFICATION STAMP
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APP: 03-120727 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

PLUMBING ROUGH-IN SCHEDULE

SYMBOL	FIXTURE	W	T	V	CW	HW	REMARKS
WC-2	WATER CLOSET	4"	INT	2"	1½"	-	FLOOR MOUNTED, BATTERY POWERED, INFRARED SENSOR OPERATED FLUSH VALVE, 1.10 GPF, OPEN FRONT SEAT. PROVIDE MANUAL OVERRIDE FLV-2. ADA HEIGHT.
L-2	LAVATORY	2"	1¼"x1½"	1½"	½"	½"	WALL HUNG, PUSH BUTTON METERING FAUCET F-4, 3-HOLES, 4" CENTER SET, GRID DRAIN (0.4 GPM). LAVATORY SHALL BE CAST IRON WITH ACID RESISTANT BAKED ON ENAMELED FINISH. CB HEAVY DUTY CAST DUCTILE IRON MOUNTING BRACKET. INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.
SH-1	ACCESSABLE SHOWER/ADULT	2"	2"	1½"	¾"	¾"	LEVER HANDLE/PRESSURE BALANCE CONTROL VALVE, DIVERTER VALVE, TWO INSTITUTIONAL TYPE SHOWER HEADS. FLOOR DRAIN SHALL BE FD-1 WITHOUT TRAP PRIMER. SEE ELEVATION 7/A1.06 FOR LOCATION OF PLUMBING ITEMS SYMMONS 9601-X-PLR-298, 2 DIV-PLR-NS, (1) 4-295. PROVIDE SYMMONS 1.2 GPM FLOW RESTRICTOR AT BOTH SHOWER HEAD
SH-2	ACCESSABLE SHOWER/STUDENT	-	-	-	-	¾" TEMP	LEVEL HANDLE VOLUME CONTROL VALVE, DIVERTER VALVE, TWO INSTITUTIONAL TYPE SHOWER HEADS, SYMMONS 0222-2 DIV-PLR NS, (20 4-295) & SYMMONS NIH-1F 1 GALLON FLOW RESTRICTOR
SH-3	SHOWER/STUDENT	-	-	-	-	¾" TEMP	LEVEL HANDLE VOLUME CONTROL VALVE, ON INSTITUTIONAL SHOWER HEAD, SOAP DISH, SYMMONS 4-420, 4-295 & SYMMONS NIH-1F 1 GALLON FLOW RESTRICTOR
FD-1	FLOOR DRAIN	2"	2"	1½"	-	-	5" DIAMETER NICKEL BRONZE DRAIN WITH TRAP PRIMER CONNECTION
FD-2	FLOOR DRAIN	3"	3"	-	-	-	J.R. SMITH 2005-Y-U-T, 5"x17" NB STRAINER
HB-1	HOSE BIBB	-	-	-	¾"	-	RECESSED BOX WITH LOCKABLE COVER AND VACUUM BREAKER

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	ITEM	DESCRIPTION
TMV–1	TEMP. MIXING VALVE	LIONARD TM–820B–LF–DT, WITH TEMP. GAUGE, ISOLATION VALVES, UNIONS, SET TO DELIVER 95 DEGREE TEMPERED WATER

ALL PRODUCTS REQUIRED IN THE CONVEYANCE OF WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH AB1953 AND RECEIVE CERTIFICATION FROM AN INDEPENDENT ANSI–APPROVED THIRD PARTY TESTING ORGANIZATION.

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Web Site: www.jandsconsulting.com
PROJECT No. 48361

REGISTERED PROFESSIONAL ENGINEER
FELIX L. TOUZA
No. M26942
EXPIRES 09–30–20
MECHANICAL
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LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: J.C./F.T.
		JOB NO: 19-SVUSD-031

PLUMBING LEGEND, SCHEDULES & NOTES

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

P0.01

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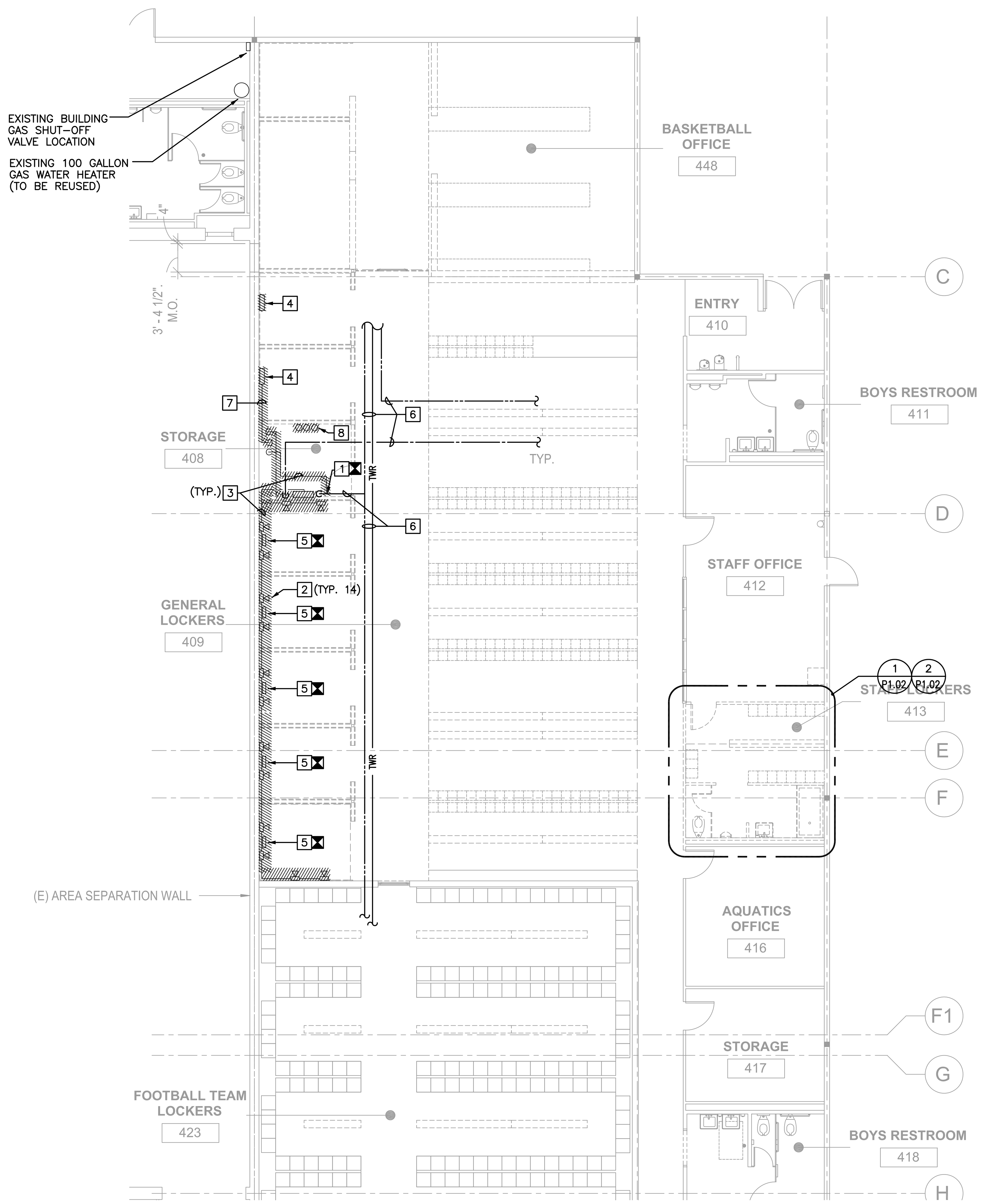

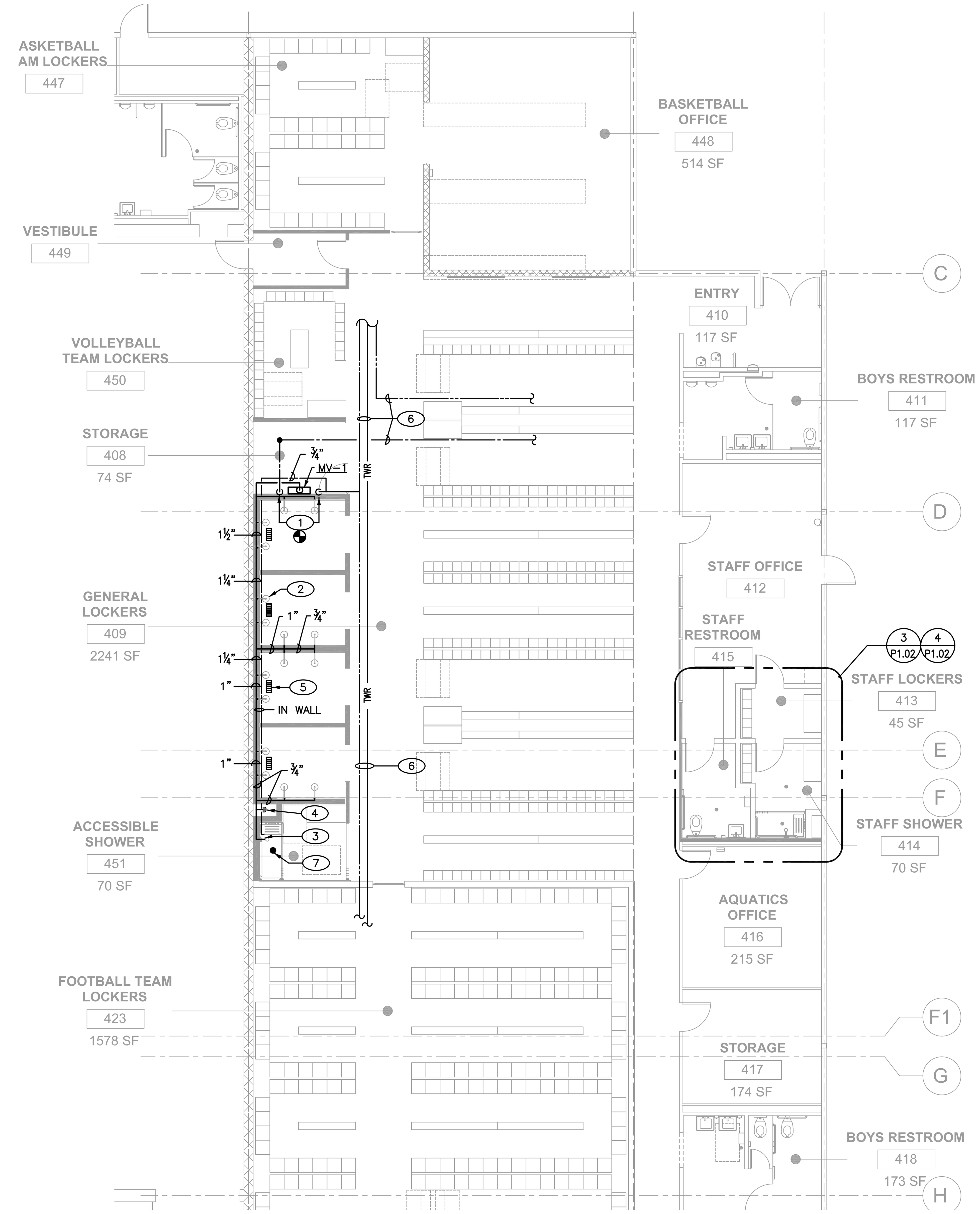

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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DEMOLITION NOTES:

1. DISCONNECT 2" HOT WATER FROM (E) MIXING VALVE ASSEMBLY.
2. REMOVE 14 (E) SHOWER ASSEMBLIES AND RETURN TO CONSTRUCTION MANAGER.
3. REMOVE ALL SURFACE MOUNTED TEMPERED WATER PIPES/INSULATION/PIPE SUPPORTS IN ROOMS 1 TO 5.
4. REMOVE FLOOR DRAINS & CAP 3" WATER PIPE BELOW GRADE,
5. REMOVE FLOOR DRAIN BODIES & GRATES. 3" WASTE PIPE BELOW TO BE REUSED FOR NEW FLOOR DRAINS.
6. (E) WATER PIPES TO REMAIN.
7. REMOVE DRAIN, HOT WATER & COLD WATER TO/FROM CLOTHES WASHER.
8. REMOVE ALL EXPOSED ABANDONED PIPING IN MIXING VALVE ROOM.

1 ENLARGED PLUMBING DEMOLITION FLOOR PLAN

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

NOTES:

1. CONNECT 1½"HW & 1½"CW FROM MV-1 TO (E) 2½"HW & 2½"CW PIPES IN VERTICAL ON WALL (SEE DETAIL 2/P3.01) (25.5 GPM).
2. SH-3 ON WALL (TYP. 16).
3. SH-2 ON WALL (SEE DETAIL 1/P2.01, NOTE 1).
4. WHA WITH ACCESS PANEL.
5. CONNECT 3" FD-2 VERTICAL WYE BELOW (TYP. 4).
6. (E) WATER PIPING ABOVE CEILING LINE.
7. CONNECT 3" FD-1 TO (E) 3" WYE BELOW FLOOR.

1 ENLARGED PLUMBING FLOOR PLAN

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

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PROJECT No. 48381

REGISTERED PROFESSIONAL ENGINEER — FELIX L. LOUZA — M28942 — EXPIRES 09-30-20 — MECHANICAL — STATE OF CALIFORNIA

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LICENSED ARCHITECT — JEAN ANN AMADOR — C-32205 — APRIL 30, 2021 RENEWAL DATE — STATE OF CALIFORNIA

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ENLARGED PLUMBING FLOOR PLANS

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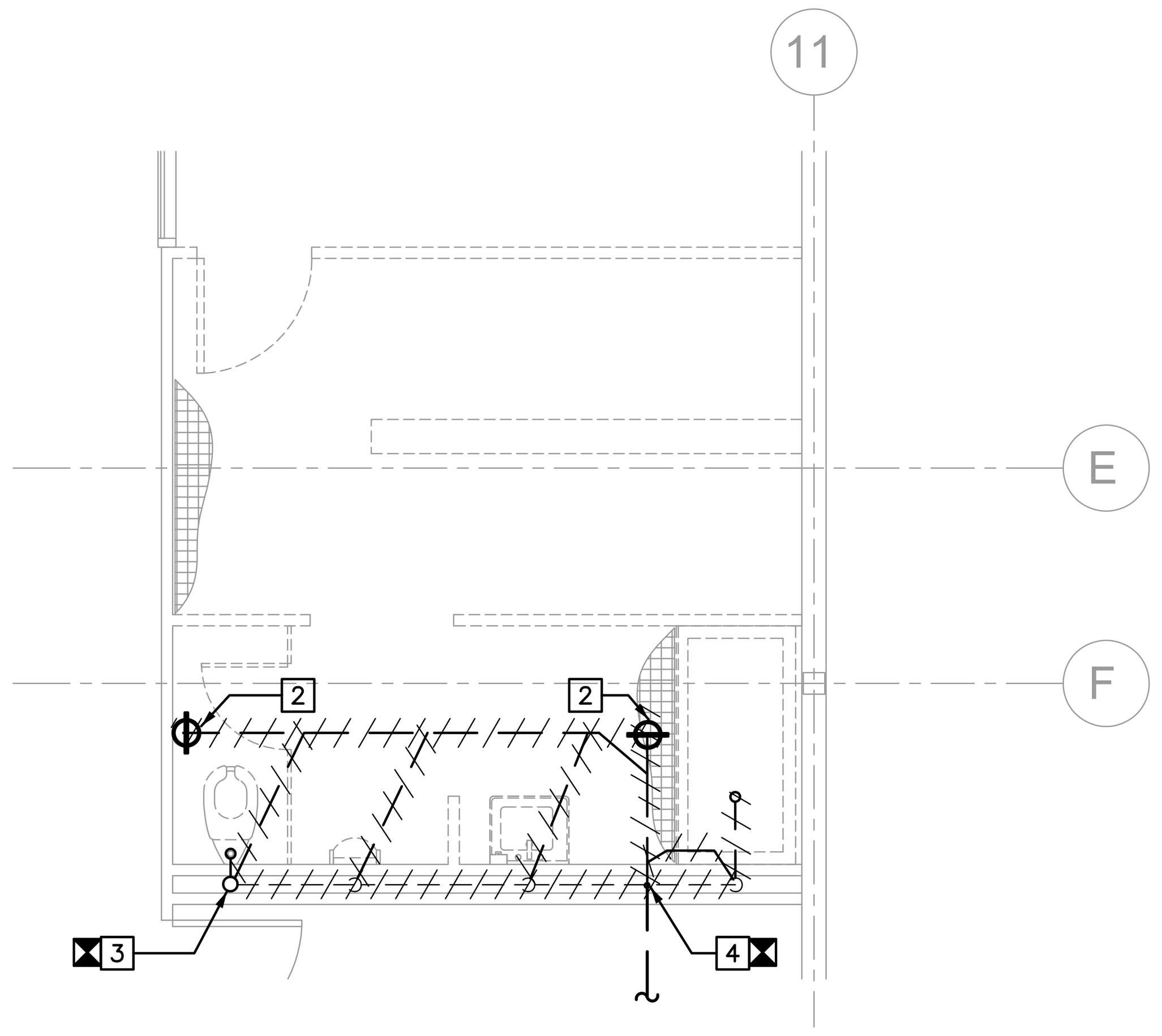
P1.01

___ OF ___

07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 2 OF 4 - Plumbing

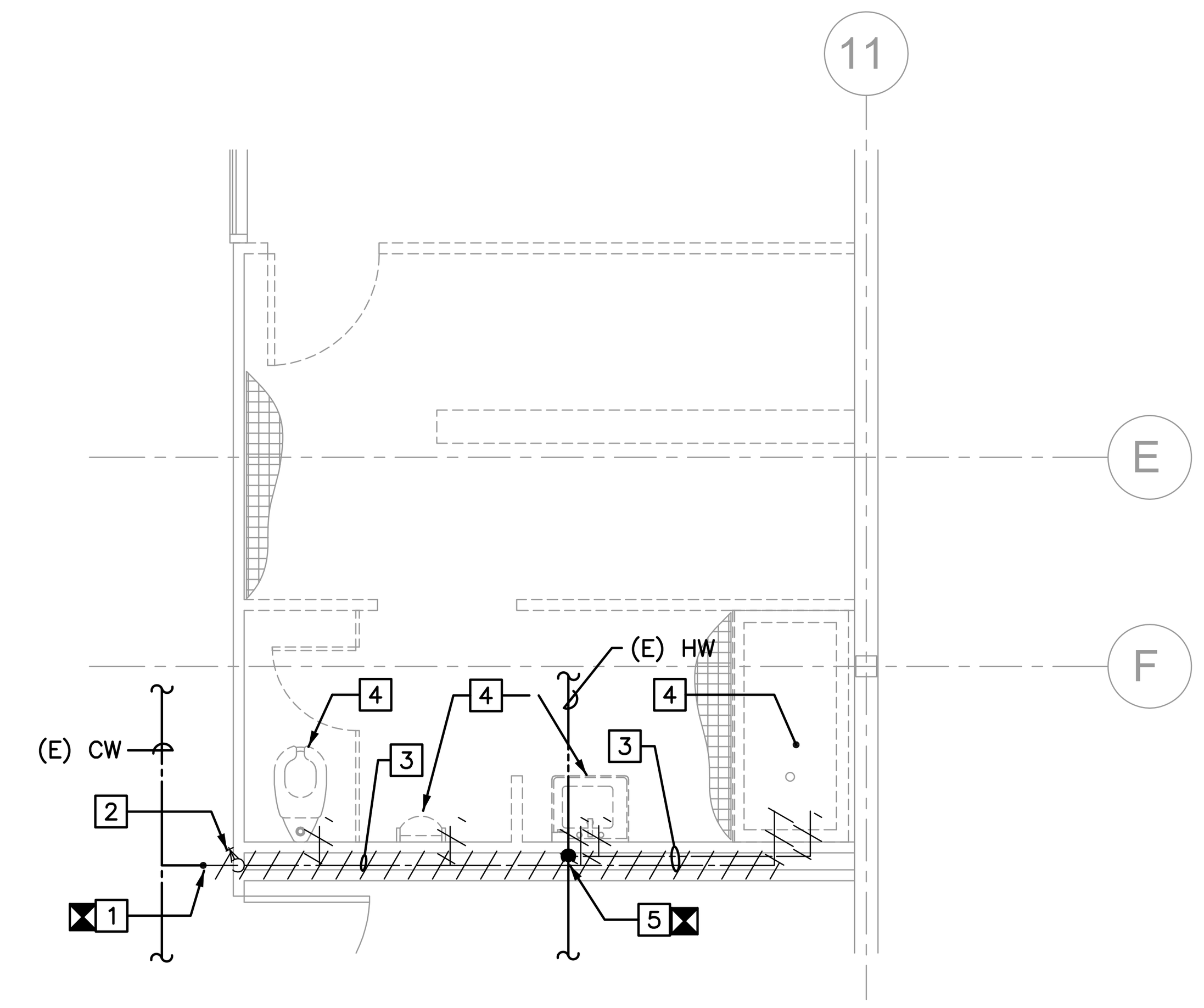


DEMOLITION NOTES:

1. REMOVE ALL WASTE, VENT, HOT & COLD WATER PIPE (UNDERGROUND AND IN WALL CHASE) WITHIN WALLS OF EXISTING TOILET ROOM & SHOWER ROOM.
2. REMOVE CLEANOUTS.
3. DISCONNECT (E) VENT PIPE IN VERTICAL, ABOVE CEILING LINE. (E) VTR TO REMAIN.
4. DISCONNECT (E) 4" WASTE BELOW FLOOR (BELOW CHASE WALL).

1 ENLARGED STAFF RESTROOM WASTE AND VENT DEMOLITION PLAN

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



DEMOLITION NOTES:

1. DISCONNECT 1½" CW FROM CW SUPPLY ABOVE CEILING LINE.
2. REPLACE 1½" SOV & ACCESS PANEL.
3. REMOVE ALL HOT & COLD WATER PIPING IN PLUMBING CHASE.
4. REMOVE ALL PLUMBING FIXTURES, INCLUDING SUPPLIES, VALVES, WATER HAMMER ARRESTORS, FAUCETS, E.T.C.
5. DISCONNECT ¾" HOT WATER AT (E) TEE ABOVE CEILING.

2 ENLARGED STAFF RESTROOM HOT AND COLD WATER DEMOLITION PLAN

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

IDENTIFICATION STAMP
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APP: 03-120727 INC:
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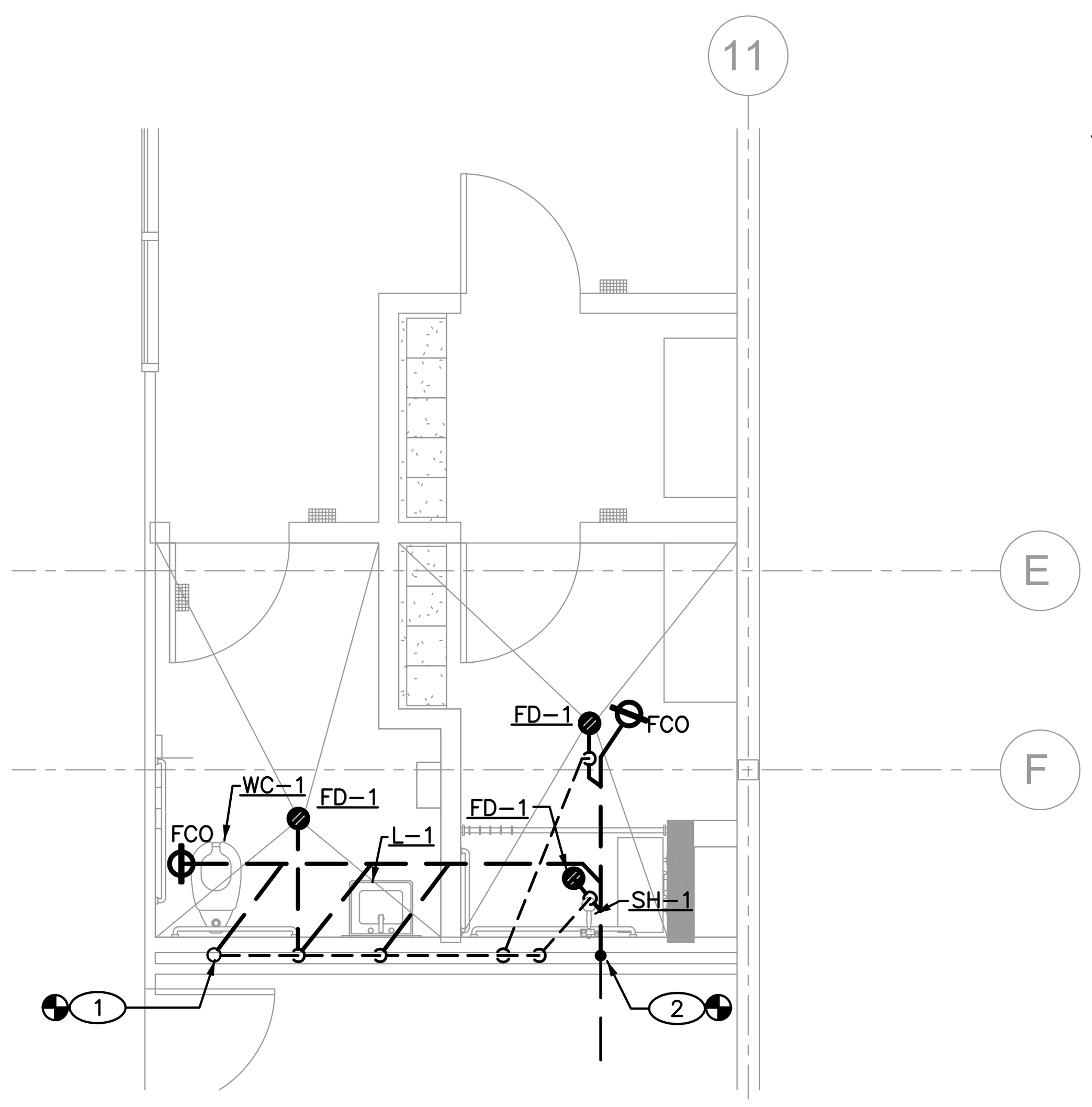
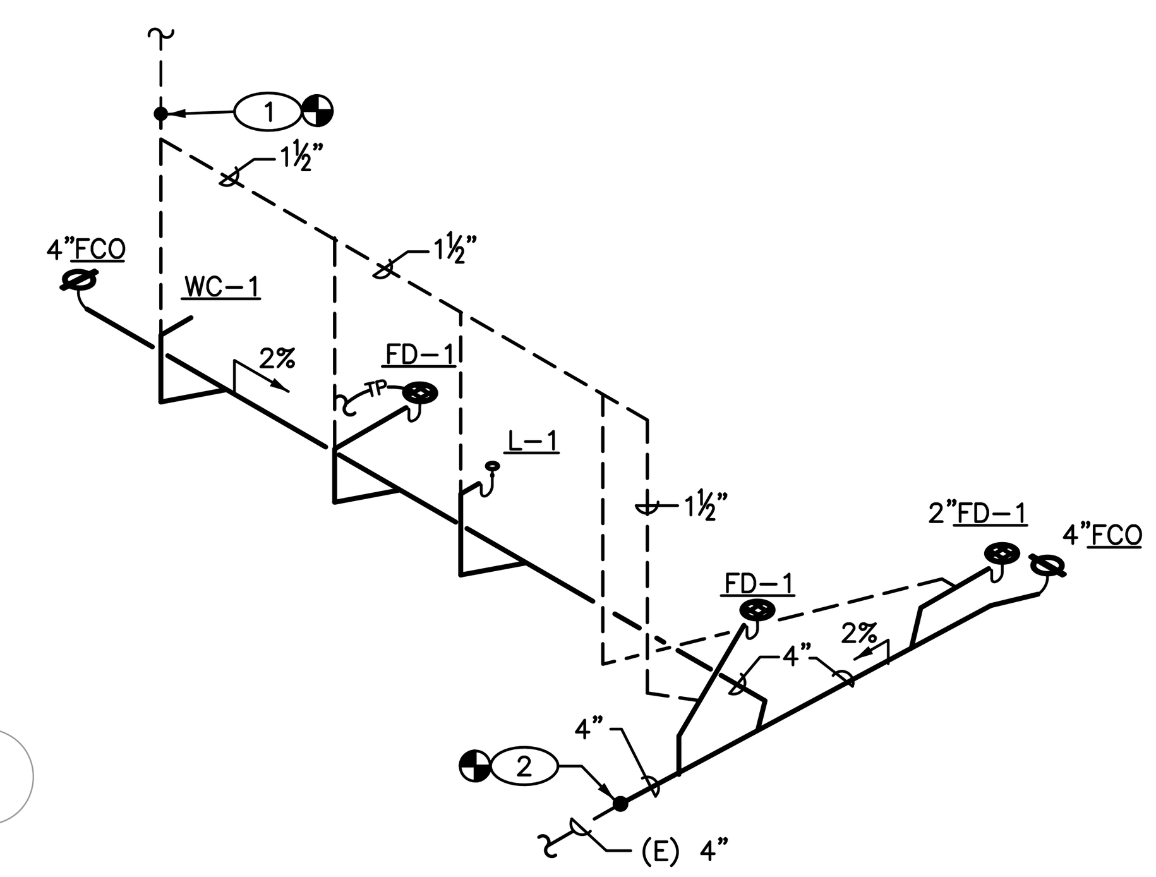
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020





PARTIAL WASTE AND VENT RISER DIAGRAM

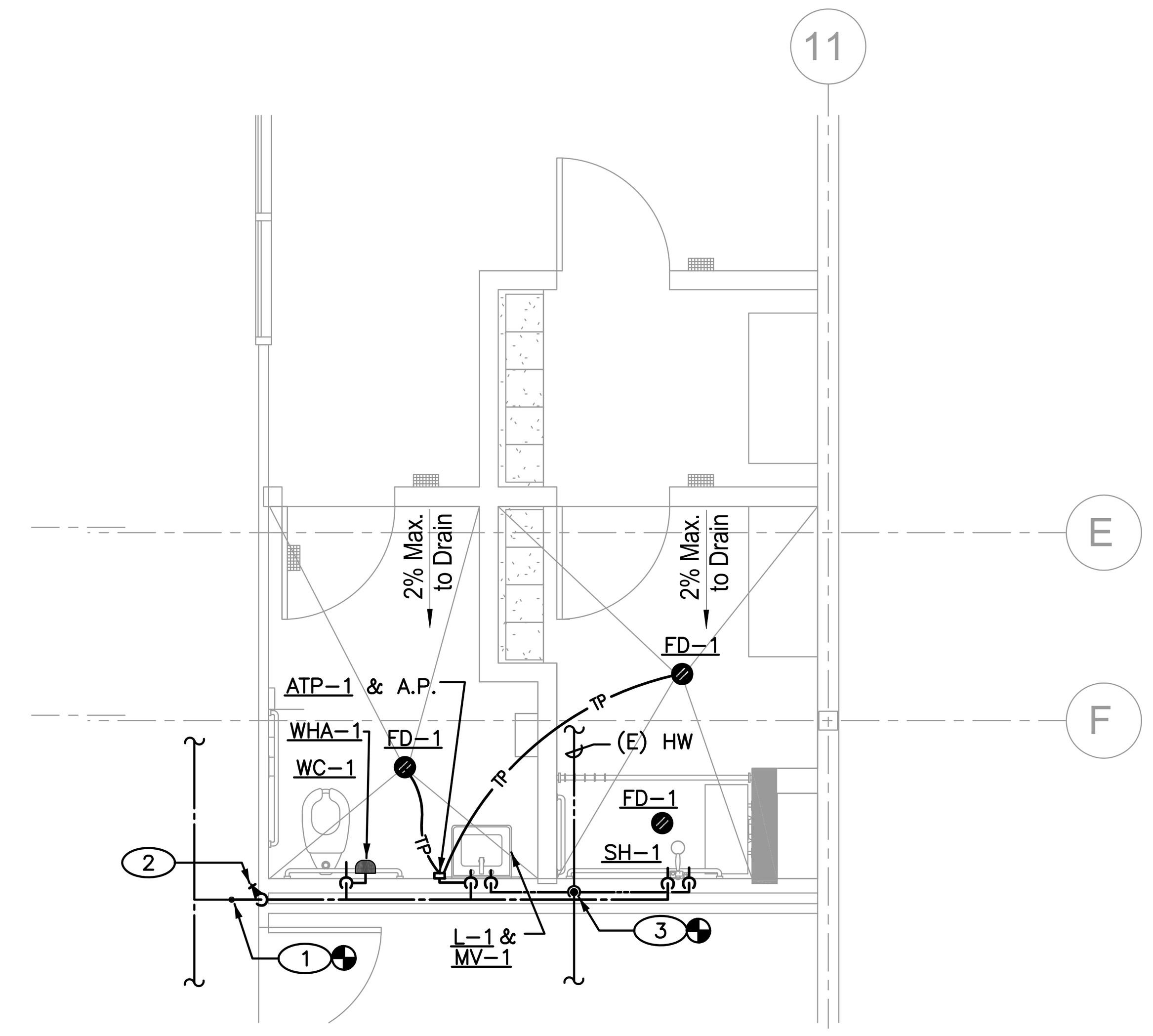
N.T.S.

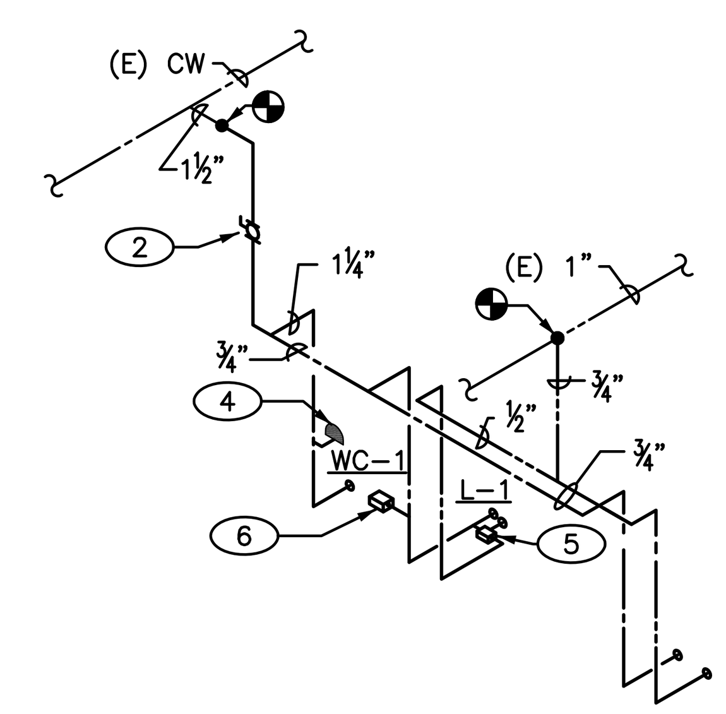
NOTES:

1. CONNECT 2" VENT TO (E) 2" VENT IN WALL/CHASE.
2. CONNECT 4" WASTE TO (E) 4" WASTE BELOW CHASE WALL.

3 ENLARGED STAFF RESTROOM WASTE AND VENT PLAN

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





PARTIAL HOT AND COLD WATER RISER DIAGRAM

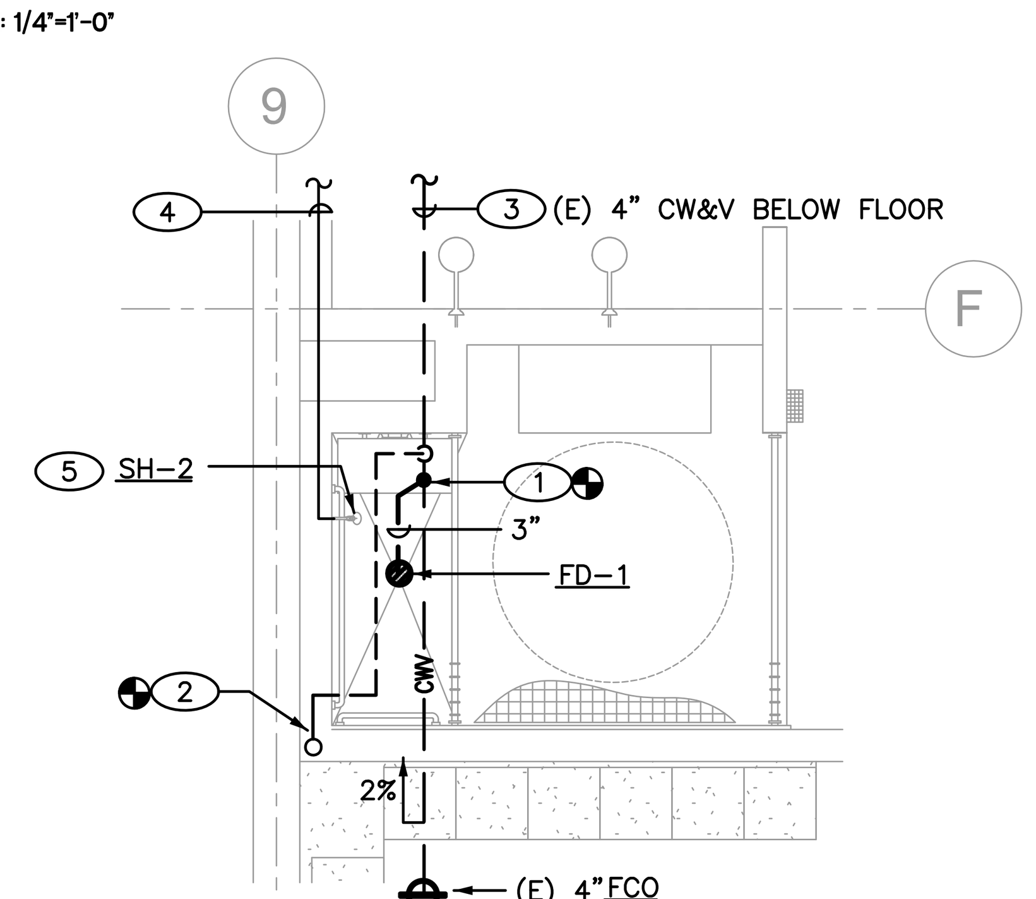
N.T.S.

NOTES:

1. CONNECT 1½" CW TO (E) 1½" CW ¾" ABOVE CEILING LINE.
2. PROVIDE 1½" SOV BEHIND ACCESS PANEL IN LOCATION WHERE PREVIOUS SOV AND ACCESS PANEL WERE LOCATED.
3. CONNECT ¾" HOT WATER TO (E) TEE ABOVE CEILING.
4. WHA WITH ACCESS PANEL ON WALL.
5. MV-1 BELOW L-1, SET TO DELIVER 105'.
6. ATP-1 WITH SOV & ACCESS PANEL.

4 ENLARGED STAFF RESTROOM HOT AND COLD WATER PLAN

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



NOTES:

1. CONNECT TO WASTE TO (E) 4" CW&V BELOW FLOOR.
2. CONNECT TO 3" VERTICAL VENT BELOW FLOOR.
3. (E) 4" CW&V BELOW FLOOR.
4. ¾" TW PIPE IN FURRED WALL.
5. ACCESSIBLE SHOWER ASSEMBLY, SEE DETAIL 1/P3.01.

5 ENLARGED ACCESSIBLE SHOWER AREA COMBINATION WASTE AND VENT

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

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E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48301

REGISTERED PROFESSIONAL ENGINEER
FELIX L. LOUZA
M29342
EXPIRES 09-30-20
MECHANICAL
STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938, (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: J.C./F.T.
		JOB NO: 19-SVUSD-031

ENLARGED PLUMBING PLANS

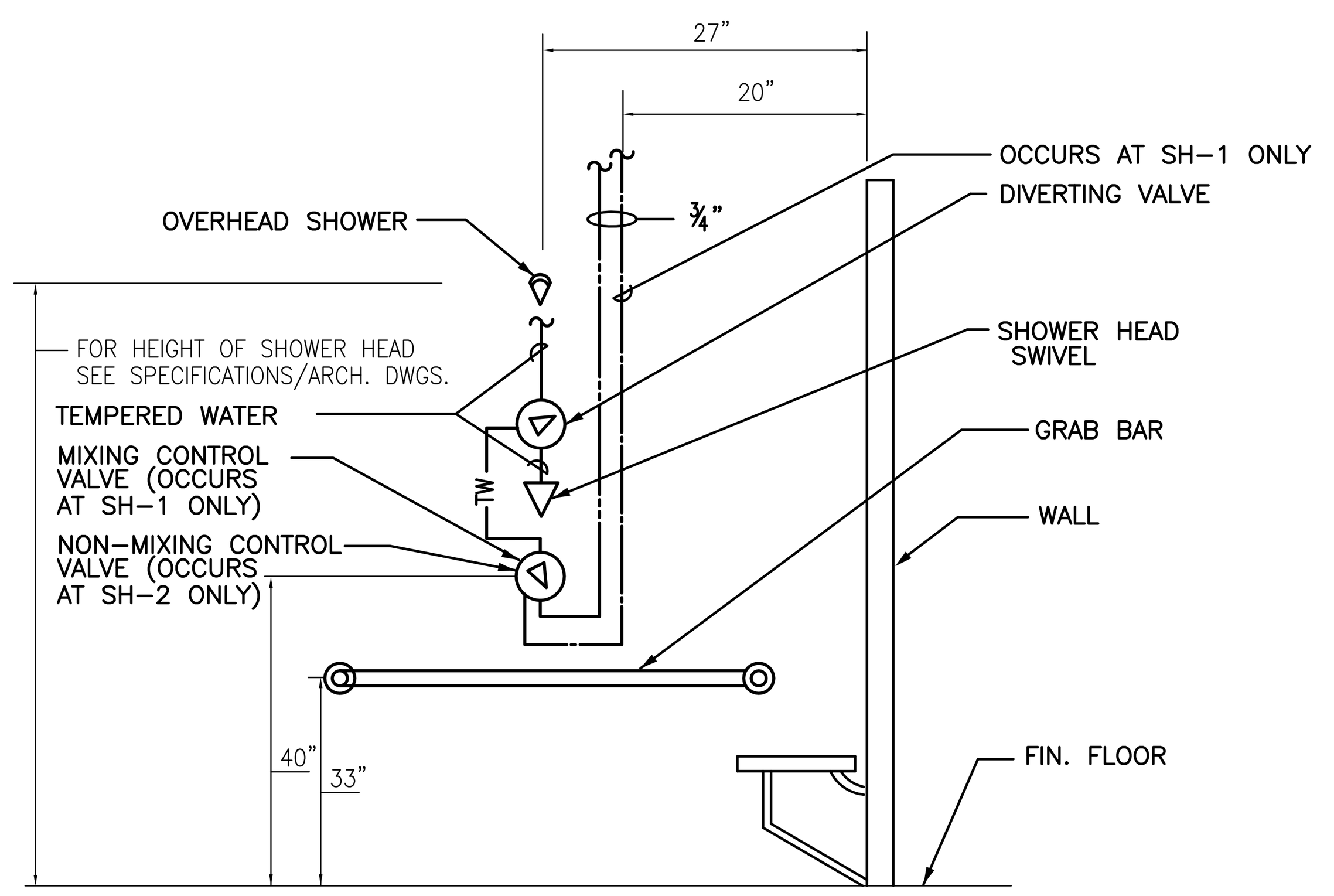
P1.02

___ OF ___

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 3 OF 4 - Plumbing

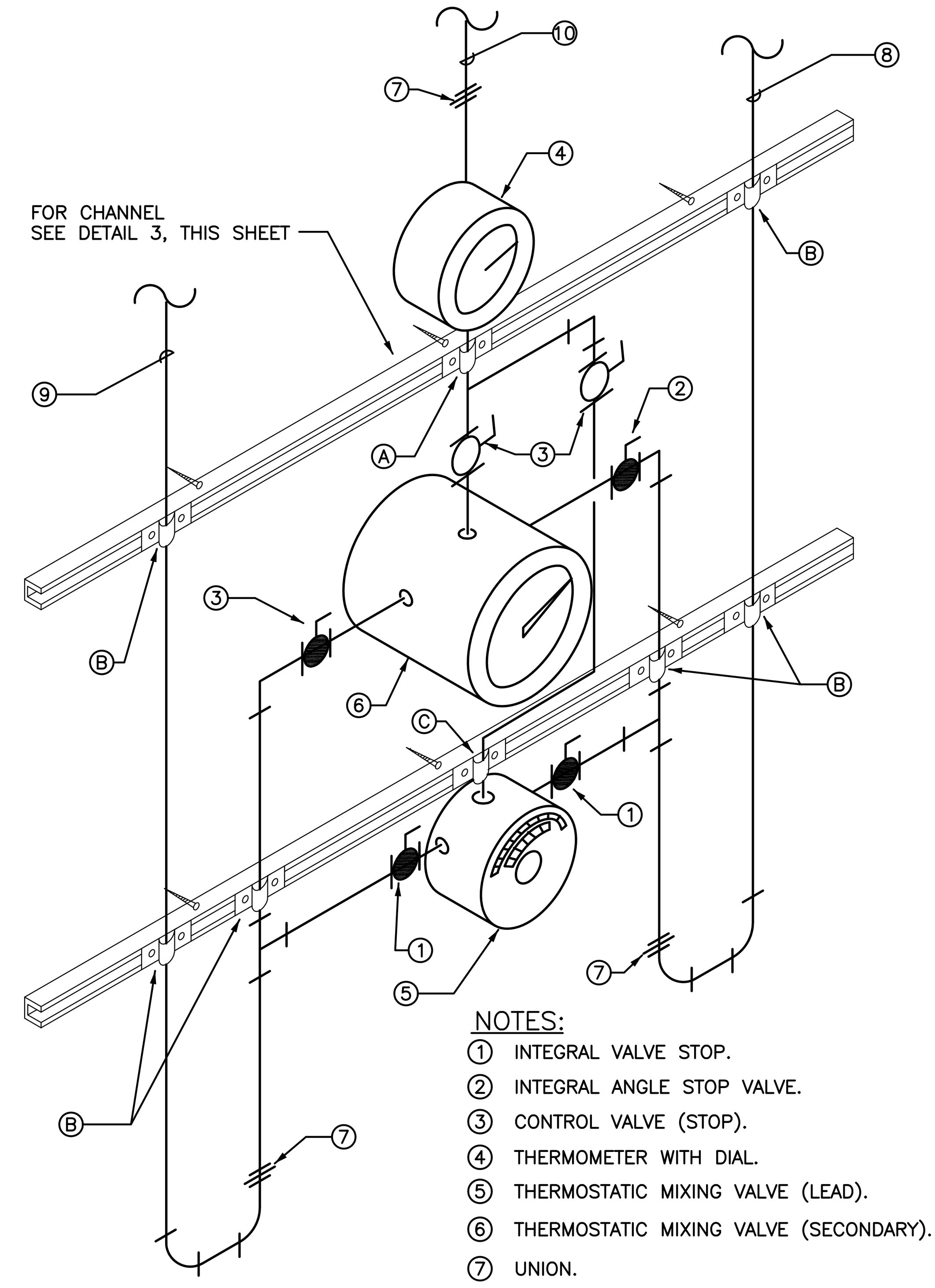
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020



NOTES:

1. GYM BUILDING WITH TEMPERED WATER AT OUTLET(S) ONLY USE SYMMONS 022-2 DIV-PLR NS WITH, (2) 4-295 (SH-2 ONLY) CONTROL VALVE WITH LEVER HANDLE OR EQUAL.
2. GYM BUILDING WITH TEMPERED WATER AND COLD WATER AT OUTLETS. USE SYMMONS TEMPTROL, MODEL B, RC-14X-4-295-SWV295-458 (SH-1 ONLY)- INCLUDES MIXING VALVE, DIVERTER VALVE & TWO SHOWER HEADS.

1 N.T.S. **HANDICAP SHOWER PIPING**

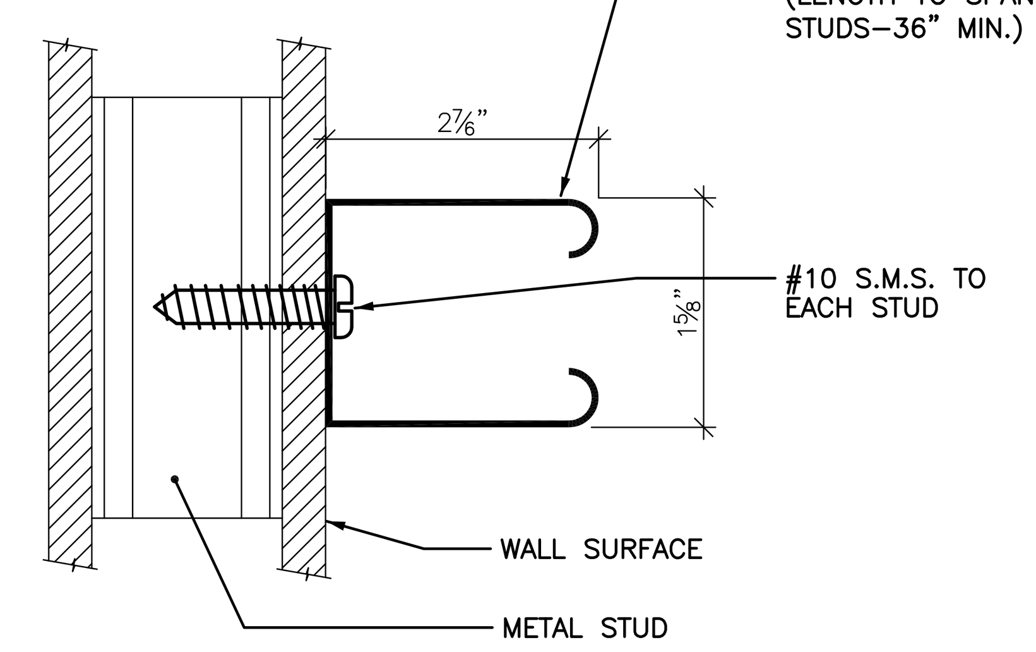


NOTES:

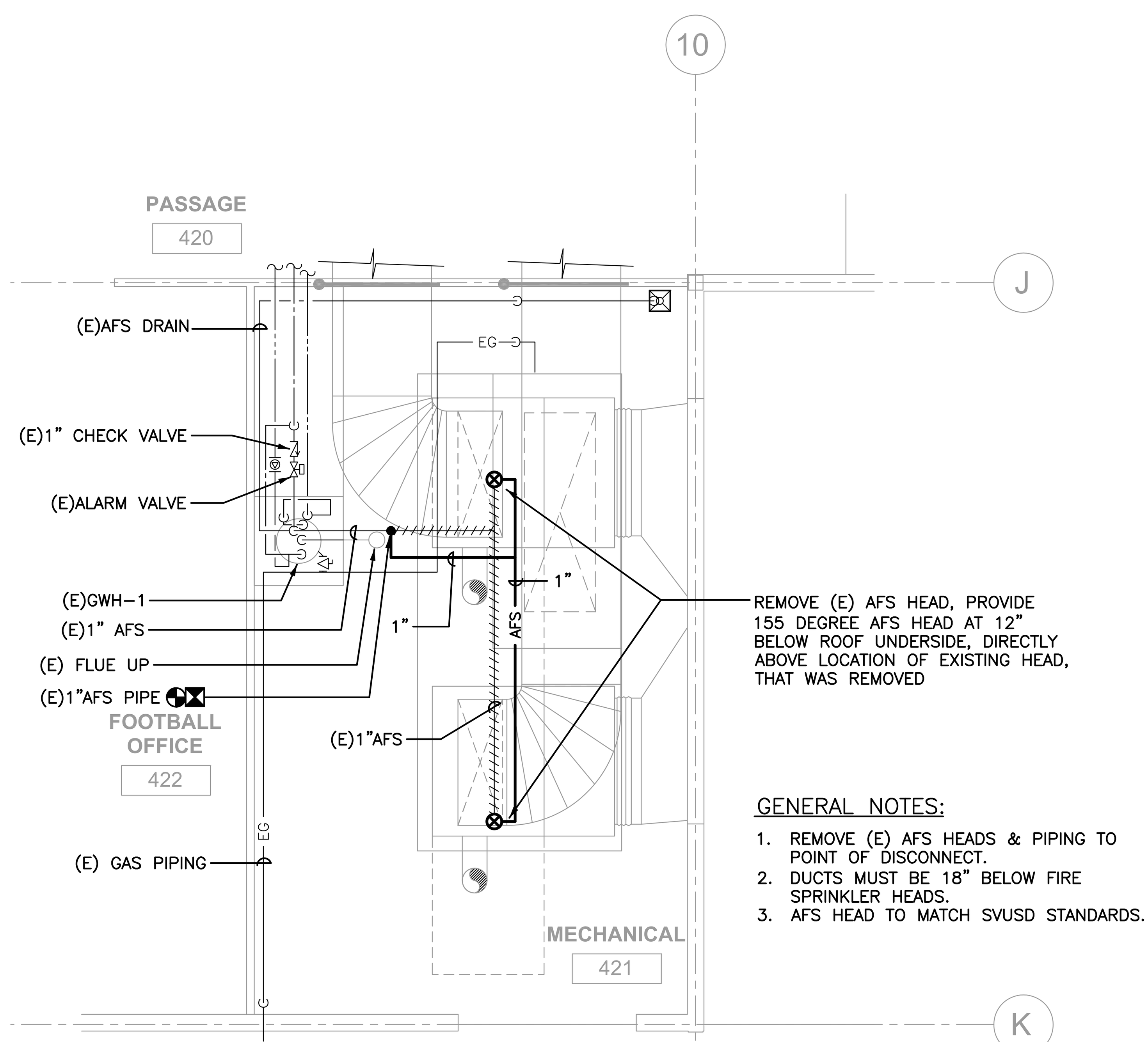
① INTEGRAL VALVE STOP.
② INTEGRAL ANGLE STOP VALVE.
③ CONTROL VALVE (STOP).
④ THERMOMETER WITH DIAL.
⑤ THERMOSTATIC MIXING VALVE (LEAD).
⑥ THERMOSTATIC MIXING VALVE (SECONDARY).
⑦ UNION.
⑧ COLD WATER SUPPLY.
⑨ HOT WATER SUPPLY.
⑩ TEMPERED WATER OUTLET.

Ⓐ UNISTRUT 026N030 PIPE CLAMP.
Ⓑ UNISTRUT 026N030 PIPE CLAMP.
Ⓒ UNISTRUT 026N030 PIPE CLAMP.

2 N.T.S. **THERMOSTATIC MIXING VALVE ASSEMBLY**



3 N.T.S. **CHANNEL DETAIL**



GENERAL NOTES:

1. REMOVE (E) AFS HEADS & PIPING TO POINT OF DISCONNECT.
2. DUCTS MUST BE 18" BELOW FIRE SPRINKLER HEADS.
3. AFS HEAD TO MATCH SVUSD STANDARDS.

4 1/4"=1'-0" **MECHANICAL ROOM AFS PLAN**

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E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48381

REGISTERED PROFESSIONAL ENGINEER FELIX L. LOUZA M20942 EXPIRES 09-30-20 MECHANICAL STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.
LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA
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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

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REVISIONS	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: J.C./F.T.
		JOB NO: 19-SVUSD-031

PLUMBING DETAILS

P2.01

___ OF ___

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 4 OF 4 - Plumbing

GENERAL NOTES

1. THE INTENT OF THESE DOCUMENTS IS TO PROVIDE COMPLETE AND IN PROPER OPERATION THE COOLING, HEATING, AND VENTILATING SYSTEM, ALL AS SPECIFIED OR INDICATED ON THESE DRAWINGS, OR REASONABLY IMPLIED.
2. ALL MECHANICAL WORK SHALL COMPLY WITH THE APPLICABLE CHAPTERS OF THE 2010 CMC; ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, AND OTHER AUTHORITIES HAVING JURISDICTION.
3. AFTER THE INSTALLATION IS COMPLETE, THE ENTIRE DUCT SYSTEM SHALL BE CHECKED AND BALANCED TO INSURE THAT CFM QUANTITIES ARE AS SET FORTH ON THE DRAWINGS, AND NO WHISTLING, RATTLING OR EXCESSIVE NOISE IS PRESENT IN ANY FORM.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL LIGHTING FIXTURES, SIGNAGE AND OTHER CEILING MOUNTED ITEMS. COORDINATE WITH THE OWNER'S ENGINEER THE LOCATIONS OF SUPPLY AND RETURN AIR GRILLES PRIOR TO START OF CONSTRUCTION. VERIFY AND COORDINATE WITH GENERAL CONTRACTOR THE LOCATION OF PENETRATIONS BEFORE CUTTING THRU ROOF OR WALLS.
5. THE CONTRACTOR SHALL EXAMINE THE SITE AND DISCUSS GENERAL REQUIREMENTS OF BUILDING AND PERFORMING HIS WORK WITH THE OWNER. HE SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES ON THE PROJECT.
6. THE CONTRACTOR IS TO REPORT TO THE OAR ANY OBSERVATIONS OR CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE FULLEST USE OF THE HVAC SYSTEM.
7. CONDENSATE DRAINS SHALL COMPLY WITH THE CALIFORNIA MECHANICAL CODE, SECTION 310.
8. ALL DUCT CONNECTIONS TO MECHANICAL UNITS SHALL BE PROVIDED WITH FLEXIBLE HYPALON FABRIC CONNECTIONS, 2 LAYERS THICK.
9. VERIFY ELECTRIC POWER CHARACTERISTICS AT JOB SITE PRIOR TO ORDERING ANY MECHANICAL EQUIPMENT.
10. ALL EQUIPMENT ANCHORAGE SHALL BE AS DETAILED ON DRAWINGS. DESIGN SHALL CONFORM TO 2013 CBC SECTION 1616A.1.18 AND ASCE SEC. 13.6.
11. THE SEISMIC BRACING AND ANCHORAGE OF DUCTS AND PIPING SHALL BE IN ACCORDANCE WITH THE "GUIDELINE FOR SEISMIC RESTRAINS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" PUBLISHED BY SMACNA LATEST VERSION AND APPROVED BY DSA. A COPY OF THE APPROVED GUIDELINE SHALL BE PROVIDED BY THE CONTRACTOR AND BE KEPT AT THE JOB SITE AT ALL TIMES. WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL, MECHANICAL ENGINEER, AND DSA FIELD ENGINEER.
12. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA FIELD REPRESENTATIVE.
13. PROTECT IN PLACE GYM FLOOR AND ALL EXISTING TO REMAIN.
14. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO ASCE 7–10 SECTION 133.1 AND TABLE 13,6–1. ANCHORAGE DETAILS I ROOF / FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
15. ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY DSA.
16. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER.
17. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

MEP Component Anchorage Notes:

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapter 13,26 and 30.

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

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

A. Components weighting less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighting less than 20 pounds, or in the case of distributed system, 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 above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacement 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 2019 CBC, Sections 167A.1.24, 1617A.1.25 and 1617A.1.26.

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

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

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

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

FORCED AIR UNIT SCHEDULE

		FAU-1	FAU-2
UNIT DESIGNATION		**FAU-1**	**FAU-2**
AREA SERVED		SEE PLAN	SEE PLAN
MAKE		REZNOR	REZNOR
MODEL		PCDV55	PCDV55
OPERATING WEIGHT, LBS.		2480	2480
FILTER TYPE		MERV 13	MERV 13
REMARKS		1,2,3	1,2,3
FAN	TOTAL AIR, CFM	8000	8000
FAN	OUTSIDE AIR, CFM	8000	8000
FAN	EXTERNAL S.P. -IN.W.G.	1	1
FAN	FAN RPM/BHP	5.68	5.68
FAN	BHP	7.5	7.5
FAN	DRIVE	BELT	BELT
FURNACE	INPUT MBH	550	550
FURNACE	OUTPUT MBH	440	440
FURNACE	FLUE SIZE, IN. DIA.	10"	10"
FURNACE	AFUE, %	80	80
ELECTRICAL	VOLTS/PHASE	460/3	460/3
ELECTRICAL	FULL LOAD AMPS	13.8	13.8
ELECTRICAL	MINIMUM CIRCUIT AMPACITY	17.5	17.5
ELECTRICAL	MAXIMUM OVERCURRENT PROTECTION	31.5	31.5
STRUCTURAL ATTACHMENT DETAIL			

NOTES:
1. PROVIDE TWO STAGE SPACE THERMOSTAT GAS CONTROL.
2. PROVIDE HORIZONTAL REAR INLET FILTER BANK WITH MERV-13 FILTERS.
3. PROVIDE VERTICAL VENT TERMINAL/COMBUSTION AIR INLET (OPTION CC2)

FAN SCHEDULE

		EF-12	EF-17	EF-18	EF-19	EF-20
UNIT DESIGNATION		**EF-12**	**EF-17**	**EF-18**	**EF-19**	**EF-20**
LOCATION		ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED		SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
MAKE		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL		G-099A	G-133-VG	G-90-VG	G-099-A	G-133-VG
BACKDRAFT DAMPER		YES	YES	YES	YES	YES
MOUNTING		ROOF	ROOF	ROOF	ROOF	ROOF
OPERATING CONTROL		INTERLOCKED TO FAU-1 & FAU-2	INTERLOCKED TO FAU-1 & FAU-2	INTERLOCKED TO FAU-1 & FAU-2	INTERLOCKED TO FAU-1 & FAU-2	INTERLOCKED TO FAU-1 & FAU-2
OPERATING WEIGHT, LBS.		45	47	30	45	47
FAN	FAN TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
FAN	AIR VOLUME (CFM)	900	1500	500	650	1200
FAN	TOTAL STATIC PRESSURE (IN. W.G.)	0.75	0.5	0.5	0.75	0.75
FAN	NOISE LEVEL (SONES)	12.2	15.0	7.7	11.7	10.2
FAN	MAXIMUM RPM	1725	1525	1725	1725	1276
FAN	MAXIMUM BHP	0.26	0.25	0.08	0.26	0.24
MOTOR	WATTS	---	---	---	---	---
MOTOR	HP	1/4	1/2	1/10	1/4	1/2
MOTOR	VOLTS/PHASE	120/1	120/1	120/1	120/1	120/1
MOTOR	DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT

NOTES:
1. PROVIDE PREFABRICATED ROOF CURB.
2. PROVIDE BACKDRAFT DAMPER.

AIR DISTRIBUTION SCHEDULE

SYMBOL	SERVICE	MATERIAL	FACE TYPE	MOUNT	FACE SIZE	MANUFACTURER	MODEL NO.		REMARKS
A	SUPPLY	ALUMINIUM	MODULAR CORE ADJUSTABLE BLOW	LAY-IN	2' X 2'	TITUS	MCD-AA	CEILING	MODULAR CORE
B	RETURN	ALUMINIUM	3/4" BLADES, 3/4" O.C.	LAY-IN	2' X 2'	TITUS	350 FL	CEILING	ROUND NECK
C	SUPPLY	ALUMINIUM	MODULAR CORE ADJUSTABLE BLOW	SURFACE	AS SHOWN	TITUS	TMR-AA	AS SHOWN	
G	EXHAUST	ALUMINIUM	3/4" BLADES, 3/4" O.C.	SURFACE	AS SHOWN	TITUS	350 FL	TOILETS/ BATHROOMS	
H	SUPPLY	ALUMINIUM	DOUBLE DEFLECTION AIRFOIL	SURFACE	AS SHOWN	TITUS	301 FL	AS SHOWN	VERTICAL FACE BARS
I	RETURN	ALUMINIUM	45 DEG. FIXED BLADES	SURFACE	AS SHOWN	TITUS	350 FL	AS SHOWN	
J	EXHAUST	ALUMINIUM	45 DEG. BLADES, .666" CENTERS	WALL	AS SHOWN	RUSKIN	ELF375X	OUTSIDE AIR INTAKE	54% FREE AREA, BIRD SCREEN

INSULATION OF DUCTS

DUCT LOCATION	MINERAL FIBER BLANKET, 0.6 lb/cf	BLANKET DUCT LINER, 1.5 to 3 lb/cf	MINERAL FIBER BOARD, 3.0 to 10 lb/cf
ON ROOF ON EXTERIOR OF BUILDING	3"	1-1/2"	1-1/2"
ATTICS, GARAGES AND CRAWL SPACES	2"	1"	1"
IN WALLS WITHIN FLOOR-CEILING SPACES	1"	1"	1"

INSULATION MAY BE OMITTED ON THAT PORTION OF A DUCT WHICH IS WITHIN A WALL- OR FLOOR-CEILING SPACE WHERE:

A. BOTH SIDES OF THE SPACE ARE EXPOSED TO CONDITIONED AIR
B. THE SPACE IS NOT VENTILATED
C. THE SPACE IS NOT USED AS A RETURN AIR PLENUM
D. THE SPACE IS NOT EXPOSED TO UNCONDITIONED AIR

CEILINGS WHICH FORM PLENUMS NEED NOT BE INSULATED

PIPE INSULATION THICKNESS

FLUID TEMP. RANGE, (°F)	CONDUCTIVITY RANGE (IN Btu- Inch per hour per square foot per °F)	INSULATION MEAN RATING TEMP. (°F)	NOMINAL PIPE DIAMETER, (in inches)					
			Runouts up to 2	1 and less	1.25-2	2.5-4	5-6	8 and larger
			INSULATION THICKNESS REQUIRED (in inches)					
Space heating systems (steam, steam condensate and hot water)								
Above 350	0.32-0.34	250	1.5	2.5	2.5	3	3.5	3.5
251-350	0.29-0.31	200	1.5	2	2.5	2.5	3.5	3.5
201-250	0.27-0.30	150	1	1.5	1.5	2	2	3.5
141-200	0.25-0.29	125	0.5	1.5	1.5	1.5	1.5	1.5
105-140	0.24-0.28	100	0.5	1	1	1	1.5	1.5
Service water-heating systems (recirculating sections, all piping in electric trace tape systems, and the first 8 feet of piping from the storage tank for nonrecirculating systems)								
Above 105	0.24-0.28	100	0.5	1	1	1.5	1.5	1.5
Space cooling systems (chilled water, refrigerant and brine)								
40-60	0.23-0.27	75	0.5	0.5	0.5	1	1	1
Below 40	0.23-0.27	75	1	1	1.5	1.5	1.5	1.5

HVAC LEGEND

SYMBOL (ONE-LINE / DOUBLE-LINE)	DESCRIPTION
12x6 or 12/6	DUCTWORK-1 st DIMENSION IS SIDE SHOWN, 2nd DIMENSION SIDE NOT SHOWN
	FLEXIBLE INSULATED DUCTWORK
	DUCT SIZE TRANSITION
18"ø 16x12	DUCT SHAPE TRANSITION
	ROUND DUCT VERTICAL RISE/DROP
	RECTANGULAR DUCT VERTICAL RISE/DROP
R(D) R(D)	GRADUAL RISE/DROP IN DUCTS
	VERTICAL TAKE-OFF UP
	VERTICAL TAKE-OFF DOWN
	RECTANGULAR DUCT 90 DEGREE MITERED ELBOW WITH TURNING VANES
	RECTANGULAR DUCT ANGLE TAKE-OFF
12"ø 10"ø	ROUND DUCT ANGLE TAKE-OFF
	MANUAL VOLUME DAMPER (MVD) W/LOCKING QUADRANT OPERATOR
FD SD FD SD	FIRE DAMPER/SMOKE DAMPER, COMBINATION SMOKE & FIRE DAMPER- PROVIDE ACCESS DOOR & CEILING ACCESS
	EXHAUST DUCT SECTION
	RETURN DUCT SECTION
	SUPPLY DUCT SECTION
	EXHAUST GRILLE
	RETURN GRILLE
	SUPPLY DIFFUSER
20x12(L) LINE (L)	PLENUM OR DUCT LINER. NET AIRSIDE DIMENSION SHOWN
EXH	EXHAUST
OSA	OUTSIDE AIR FLOW
RA	RETURN AIR
SA	SUPPLY AIR
U UC	UNDERCUT DOOR
L D.LVR	DOOR LOUVER W/GROSS AREA
TR	TRANSFER AIR FLOW
T S	THERMOSTAT / SENSOR
A	SMOKE DETECTOR TEST/ANNUNCIATOR STATION- MOUNT NEXT TO UNITS THERMOSTAT
BT	TIME SWITCH (BYPASS TIMER)
A 12x12 300 CFM	CEILING DIFFUSER/REGISTER IDENTIFICATION: "A"-GRILLE TYPE PER AIR DISTRIBUTION SCHEDULE, 12"X12" NECK, 300 CFM AIR FLOW
HP 1	EQUIPMENT IDENTIFICATION
	LOW VOLTAGE WIRING IN MECHANICAL WORK
	LINE VOLTAGE WIRING IN ELECTRICAL WORK
P.O.C.	POINT OF CONNECTION
P.O.D.	POINT OF DISCONNECTION STOP DEMOLITION AT THIS POINT
CO	CO_2 SENSOR
M	MOTORIZED DAMPER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

APPLICABLE CODES

LIST OF 2019 CALIFORNIA CODE OF REGULATIONS (C.C.R.):
APPLICABLE CODES AS OF JANUARY 1, 2020

PART 1- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2- 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

PART 3- 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

PART 4- 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

PART 5- 2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

PART 6- 2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 7- CURRENTLY VACANT

PART 8- 2019 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

PART 9- 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

PART 10- 2019 CALIFORNIA EXISTING BUILDING CODE (2018 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

PART 11- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.

PART 12- 2019 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAP. 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17a	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2016 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

DEPARTMENT OF JUSTICE REGULATIONS FOR TITLE II OF THE AMERICANS WITH DISABILITIES ACT OF 1990 WITH REVISED REGULATIONS AS PUBLISHED IN THE FEDERAL REGISTER ON SEPTEMBER 15, 2010, EFFECTIVE MARCH 15, 2012. TITLED ADA STANDARDS FOR ACCESSIBLE DESIGN.

J & S CONSULTING ENGINEERS, INC.
ELECTRICAL ▪ MECHANICAL ▪ FIRE PROTECTION
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Tel.:(818) 841-0303 Fax: (818) 841-8531
E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48301

REGISTERED PROFESSIONAL ENGINEER FELIX L. TOUZA No. M26942 EXPIRES 09-30-20 MECHANICAL STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.

LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: F.T.
		JOB NO: 19-SVUSD-031

MECHANICAL LEGEND, GENERAL NOTES & SCHEDULES

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

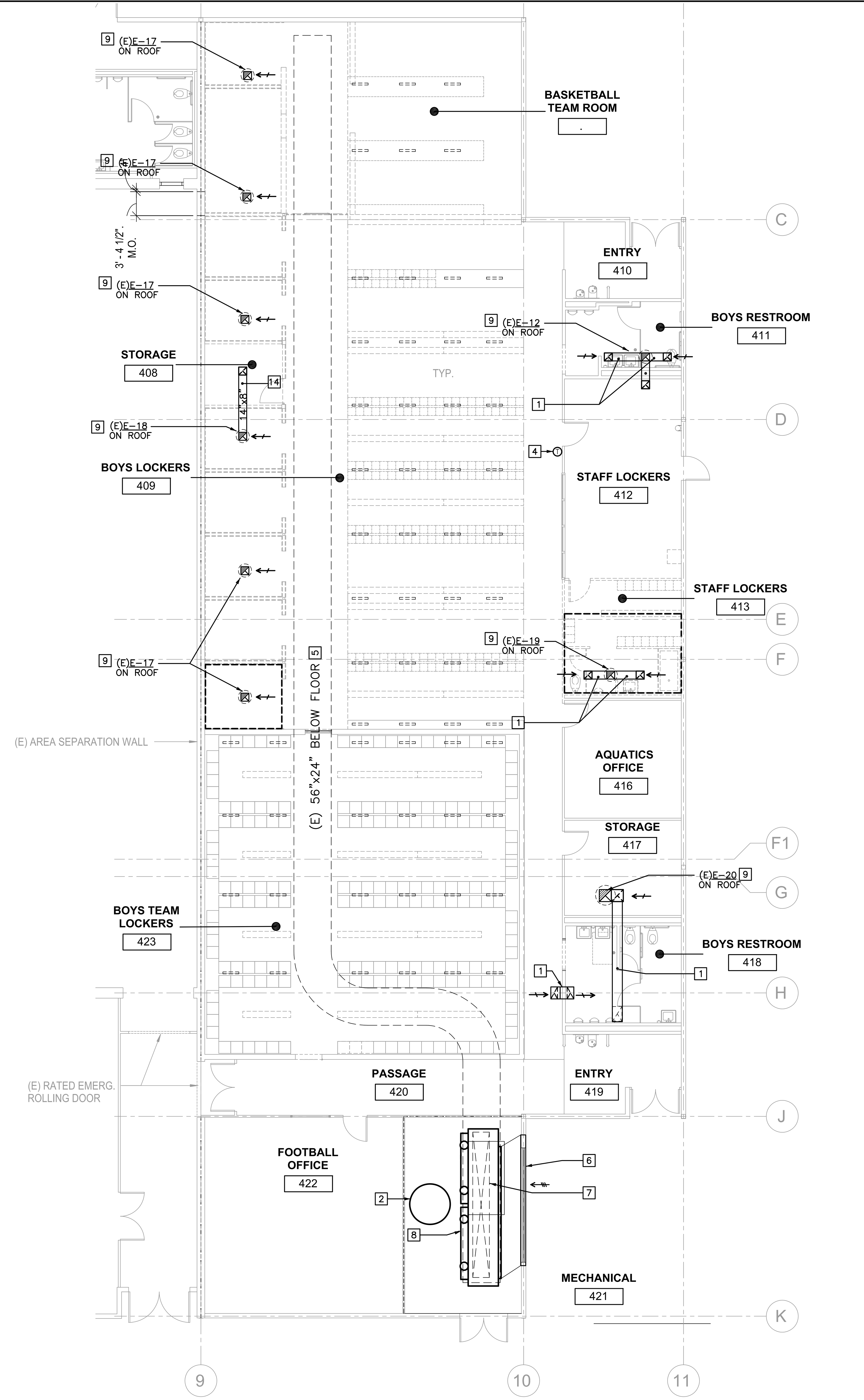
M0.01

___ OF ___

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

DEMOLITION NOTES:

1. EXISTING DUCTWORK TO REMAIN.
2. EXISTING WATER HEATER & ASSOCIATED PIPING TO REMAIN. SEE PLUMBING DRAWINGS.
3. NOT USED.
4. EXISTING THERMOSTAT TO BE REMOVED.
5. EXISTING 56"x24" UNDERGROUND DUCT TO BE ABANDONED.
6. EXISTING 170"x130" LOUVER TO BE REPLACED. DISTRICT WILL DEMO AND REPLACE LOUVERS.
7. NOT USED.
8. EXISTING EQUIPMENT & FLUE TO BE REMOVED. PATCH ROOF TO MATCH EXISTING.
9. EXISTING EXHAUST FAN ON ROOF TO BE REMOVED.



1 MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8" = 1'- 0"
0 5 10 15 30

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E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48381

REGISTERED PROFESSIONAL ENGINEER FELIX L. TOUZA No. M26942 EXPIRES 09-30-20 MECHANICAL STATE OF CALIFORNIA

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28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: F.T.
		JOB NO: 19-SVUSD-031

MECHANICAL DEMOLITION FLOOR PLAN

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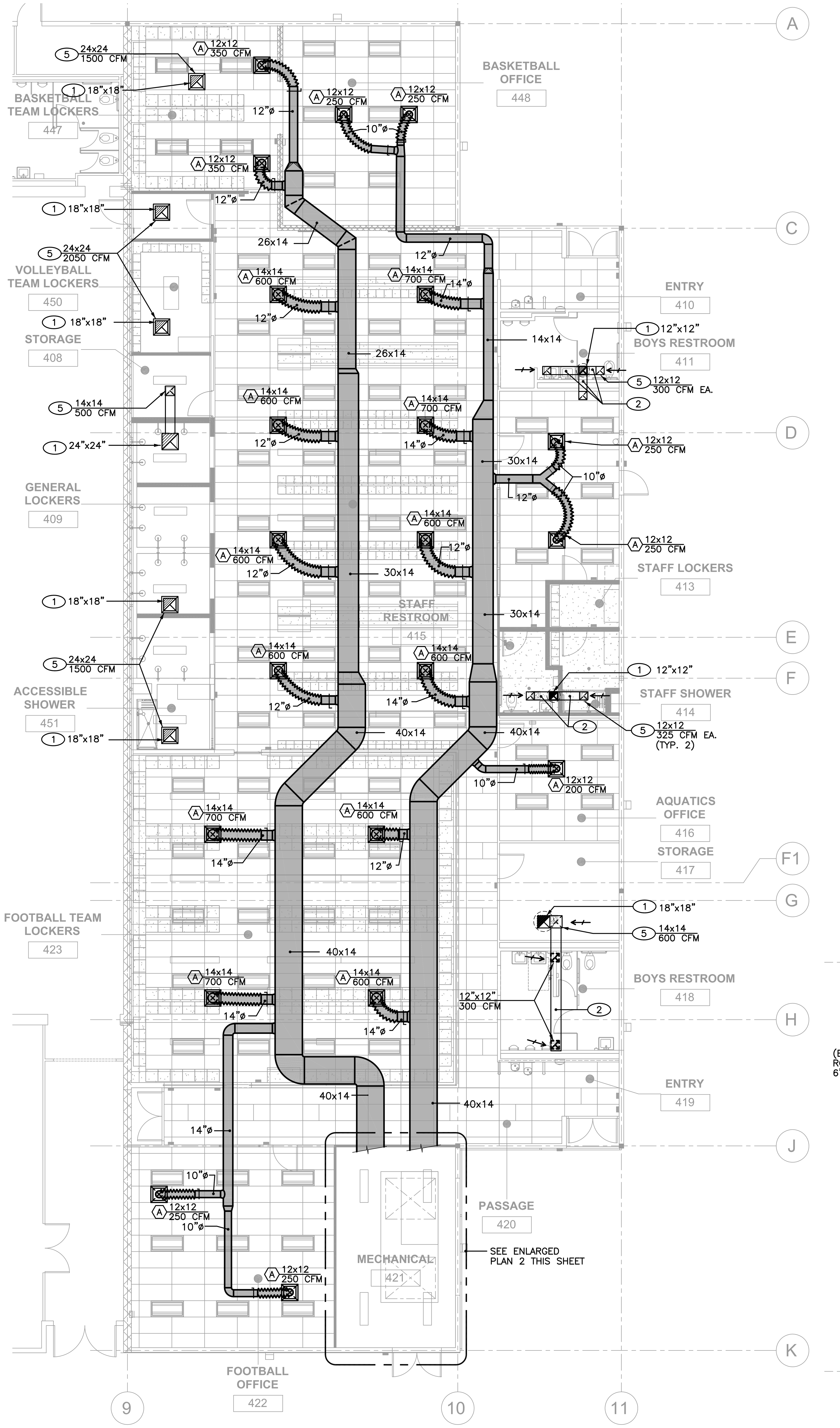
M1.01

___ OF ___

07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 2 OF 5 - Mechanical



1 MECHANICAL PLAN

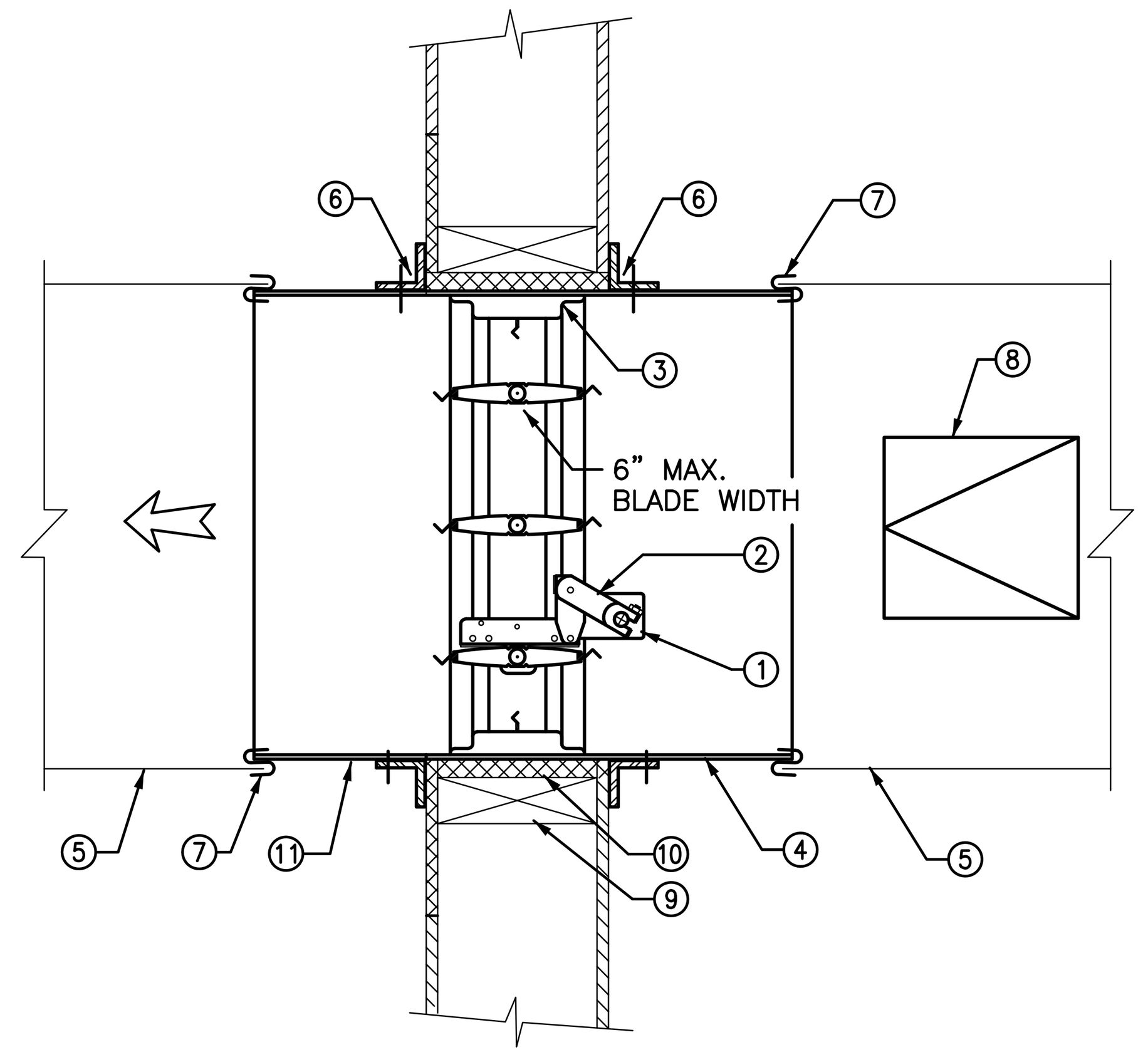
SCALE: 1/8" = 1'-0"

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

0 5 10 15 30

NOTES:

1. EXISTING DUCTWORK UP THROUGH ROOF TO REMAIN.
2. EXISTING DUCTWORK.
3. EXISTING LOUVER.
4. MANUAL VOLUME DAMPER.
5. EXISTING GRILLE TO REMAIN.
6. COMBINATION SMOKE/FIRE DAMPER (CSFD). SEE DETAIL 3, THIS SHEET.

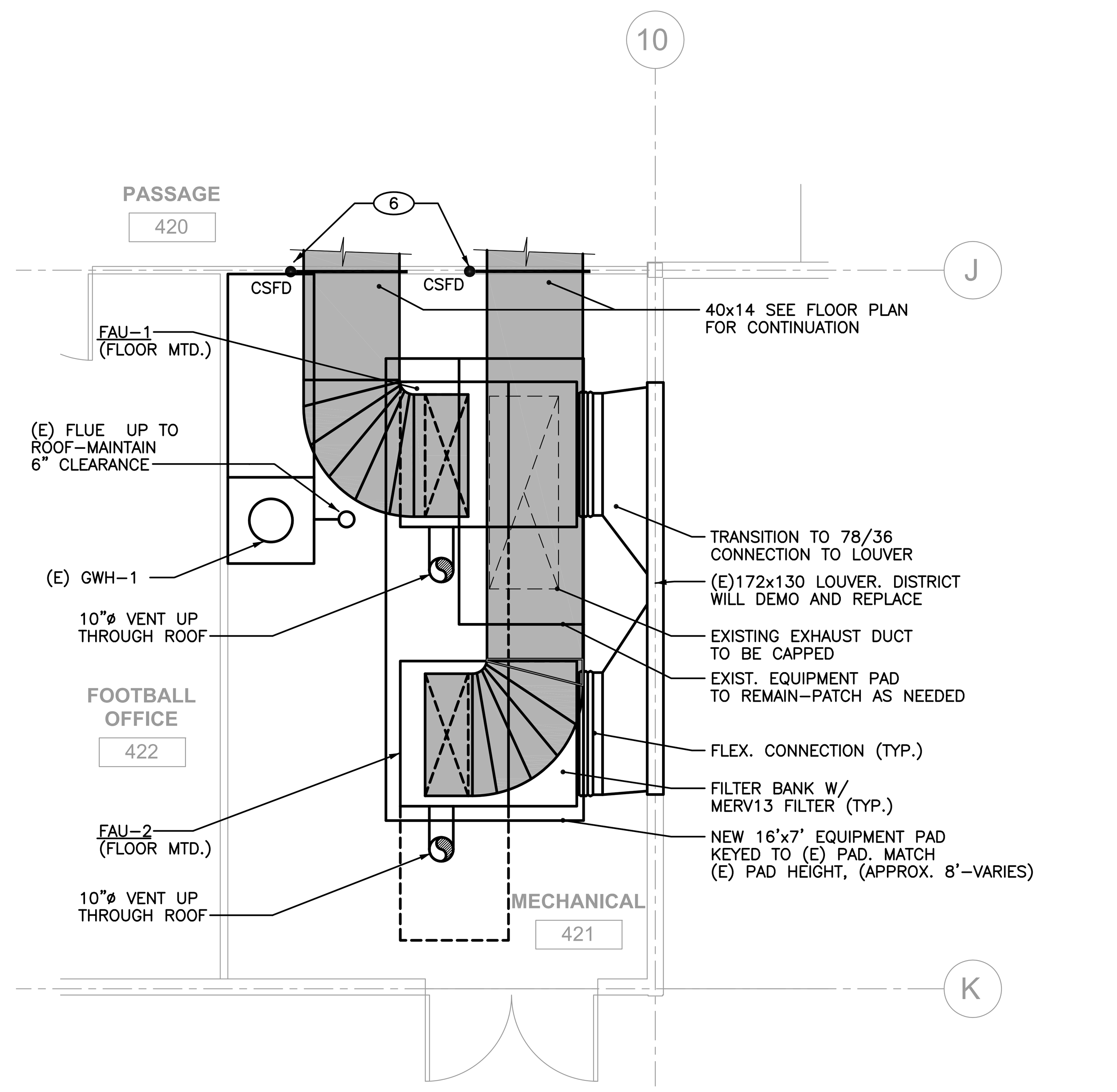


NOTES:

1. ACTUATOR (LOCATION MAY VARY) ON FRAME EXTERIOR
2. CONNECTING ROD – EXTERIOR OF UNIT
3. DAMPER FRAME
4. SLEEVE BY DAMPER MFGR
5. DUCT.
6. MOUNTING ANGLES 1½"x1½"x16 GAGE MIN. (4 SIDES)
7. JOINT, SLEEVE TO DUCT – BREAK-AWAY CONNECTIONS
8. ACCESS PANEL AT DUCTWORK.
9. STEEL OR WOOD CONSTRUCTION (SINGLE STUDS ONLY)
10. FIRE RATED GYPSUM BOARD
11. COMBINATION SMORE/FIRE DAMPER (CSFD). RUSKIN MODEL FSD-36, CSFM LISTING – 3235-0245:0126 AND 3235-0245:0129

3 COMBINATION SMOKE/FIRE DAMPER @ FIRE RATING WALL

NOT TO SCALE



2 ENLARGED MECHANICAL ROOM PLAN

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

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

0 2 4 6 12

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PROJECT No. 48381

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	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
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		JOB NO: 19-SVUSD-031

MECHANICAL FLOOR PLAN

M1.02

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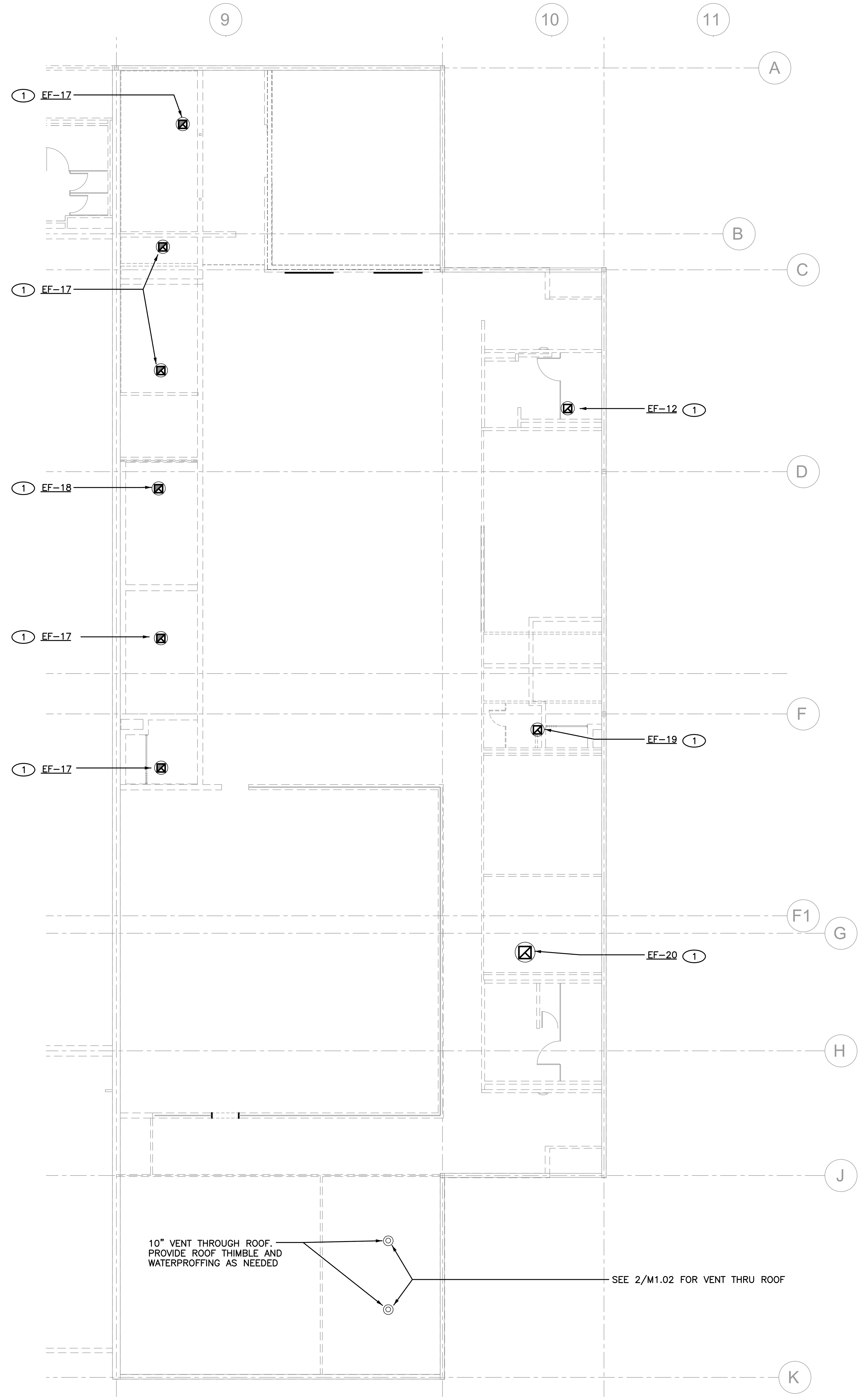
07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 3 OF 5 - Mechanical



1 MECHANICAL ROOF PLAN

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

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

0 5 10 15 30

NOTES:

1. REPLACE EXISTING EXHAUST FAN; REFABRICATE ROOF CURB AND RECONNECT EXISTING DUCTWORK.

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REVIEWED FOR
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Tel.:(818) 841-0303 Fax: (818) 841-8531
E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48561

REGISTERED PROFESSIONAL ENGINEER FELIX L. TOUZA No. M26942 EXPIRES 09-30-20 MECHANICAL STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.

LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

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		JOB NO: 19-SVUSD-031

MECHANICAL ROOF PLAN

M1.03

___ OF ___

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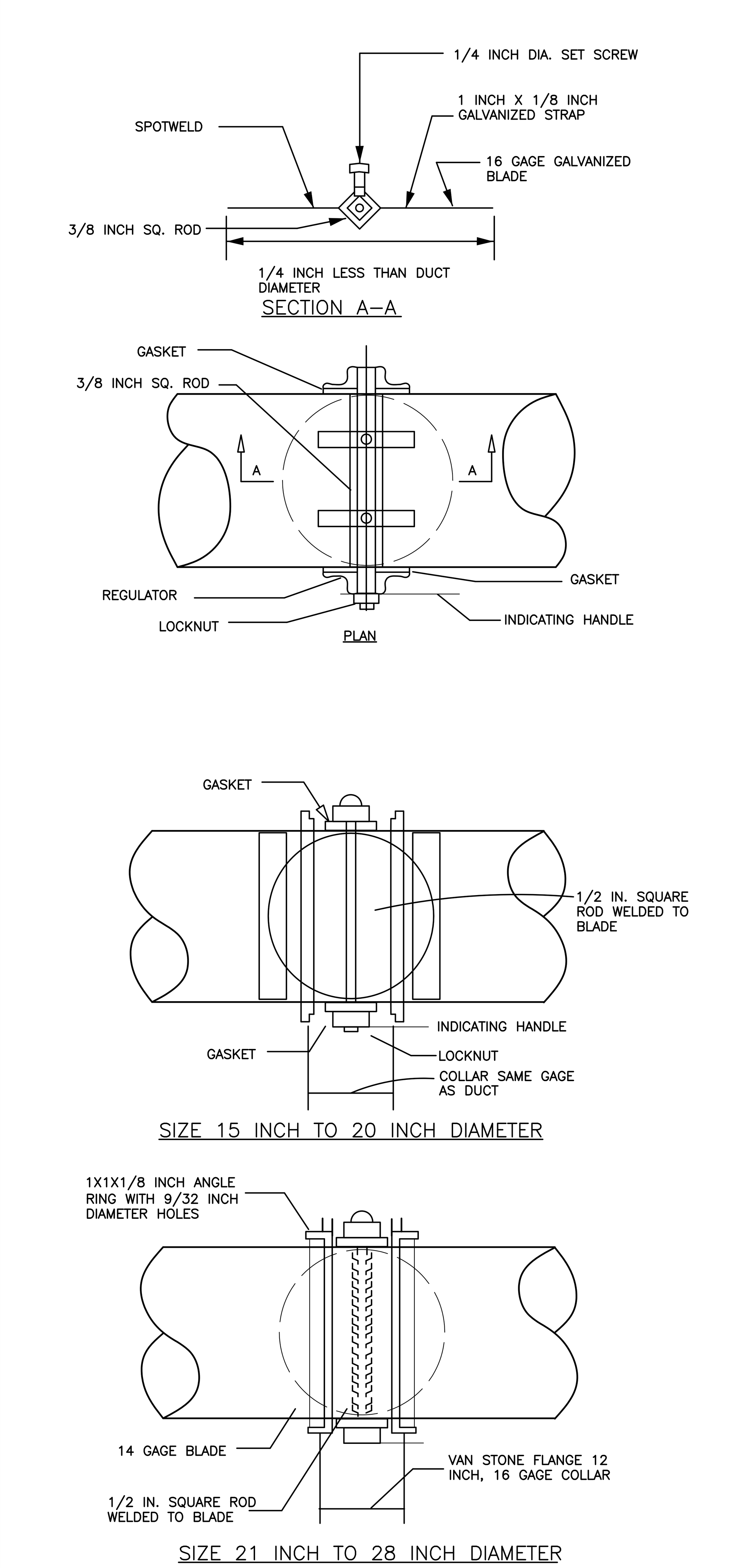
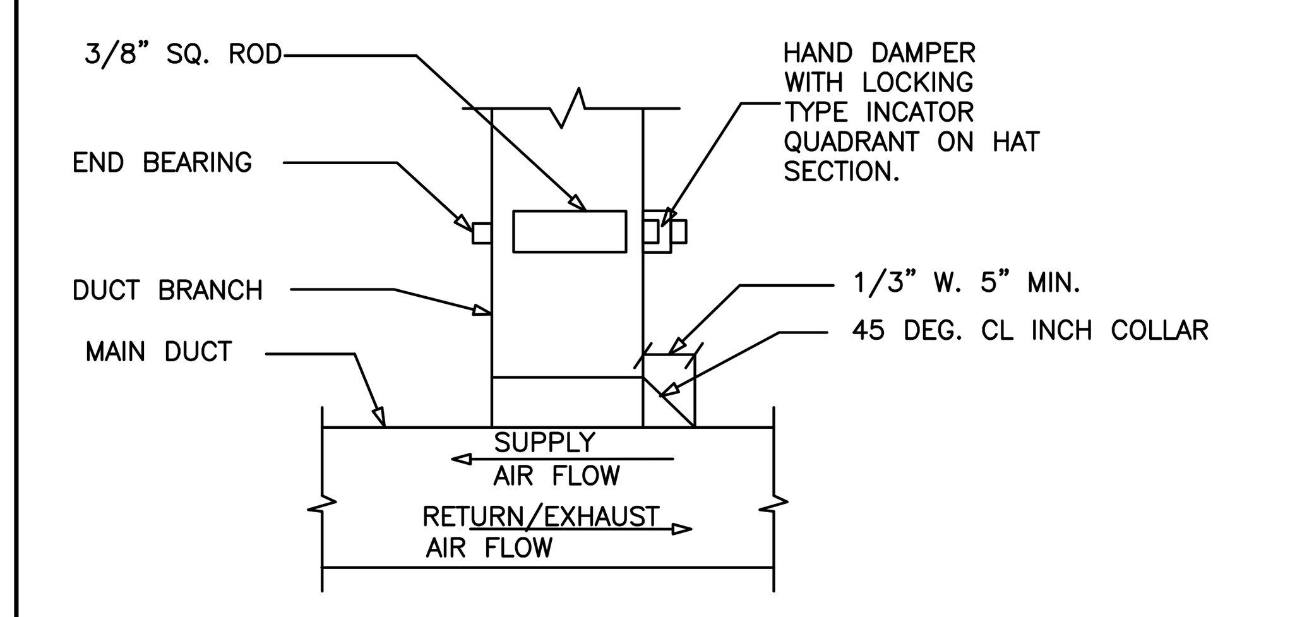
07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 4 OF 5 - Mechanical



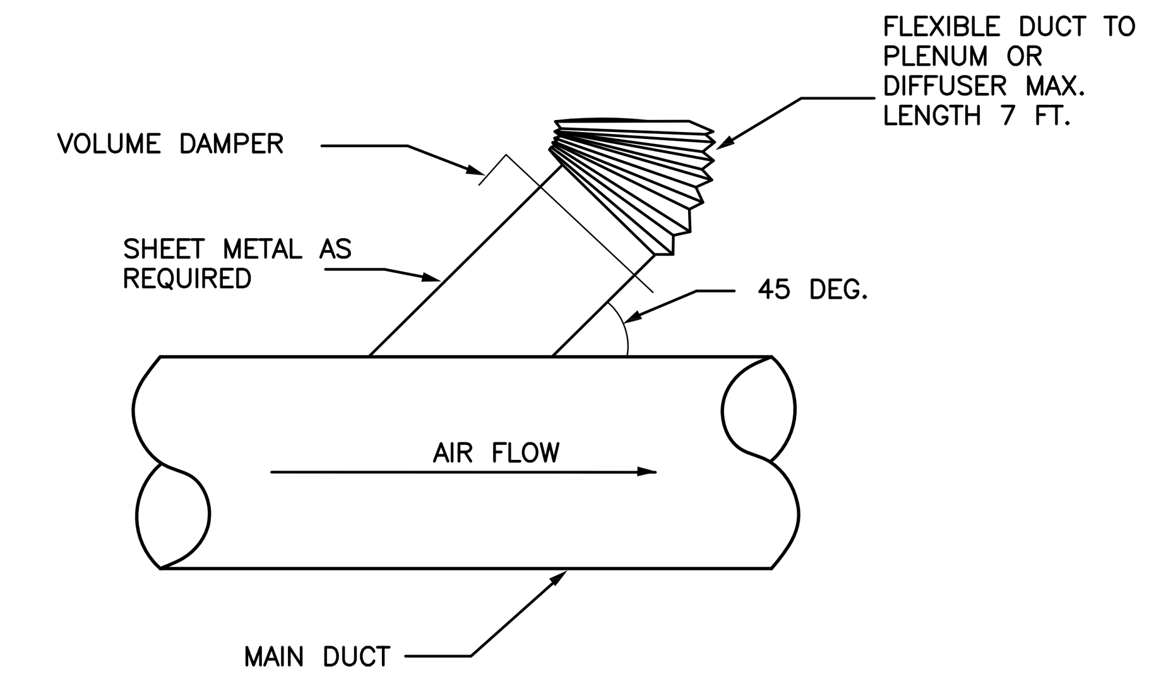
4 N.T.S. **ROUND VOLUME DAMPER DETAIL**



NOTES:

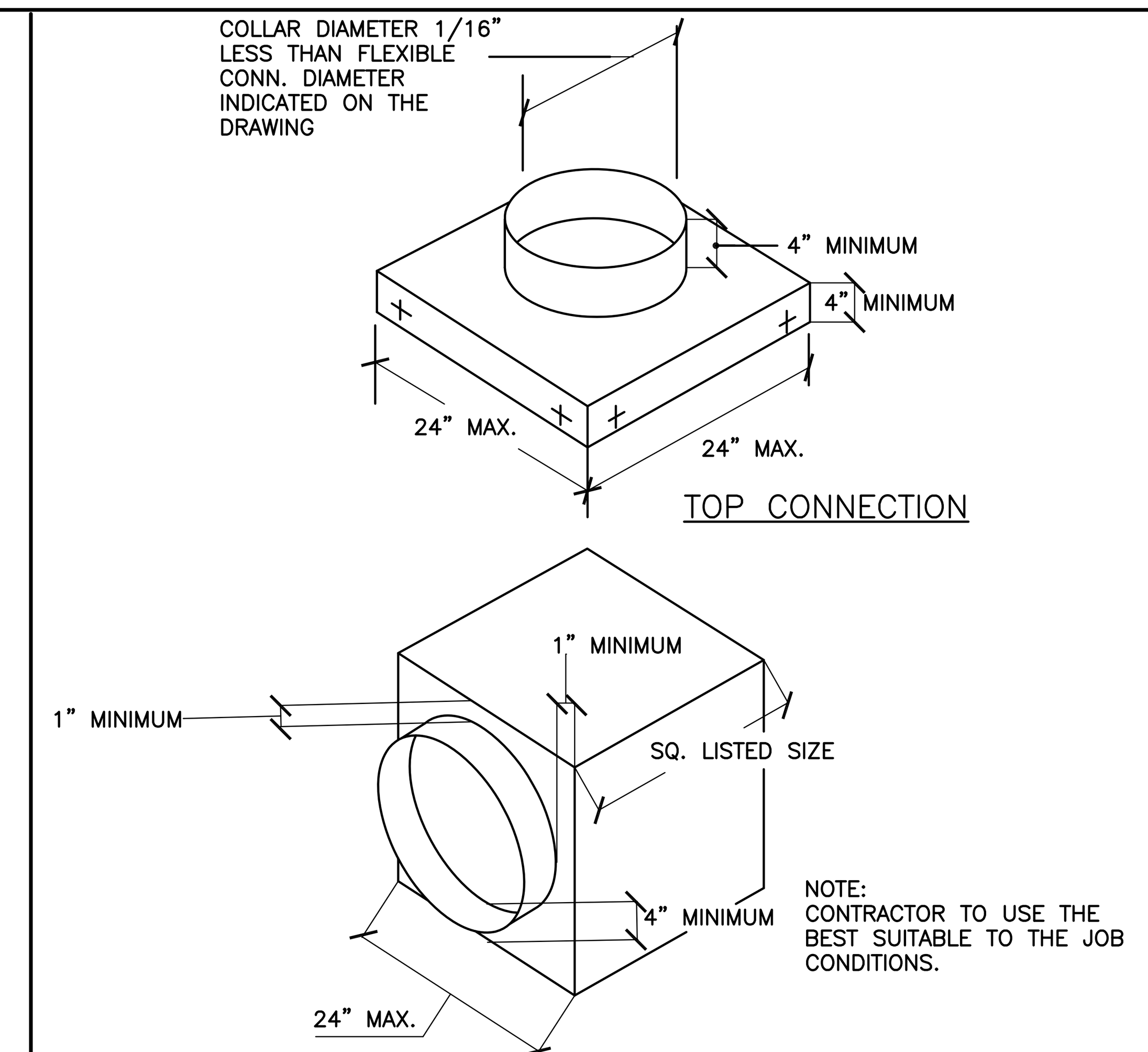
1. FURNISH THIS TYPE CONNECTION WHEN SINGLE – LINE DUCTWORK IS INDICATED AS THIS ⊥ FOR BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW.
2. FOR STRUCTURAL FRAMING SEE DETAIL 7/M–3.01

1 N.T.S. **RECTANGULAR DUCT CONNECTION DETAIL**



NOTES:
FURNISH THIS TYPE CONNECTION WHEN SINGLE – LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25 % OF THE TOTAL AIR FLOW.

2 N.T.S. **ROUND DUCT CONNECTION DETAIL**



NOTE:
CONTRACTOR TO USE THE BEST SUITABLE TO THE JOB CONDITIONS.

3 N.T.S. **SQUARE TO ROUND COLLAR**

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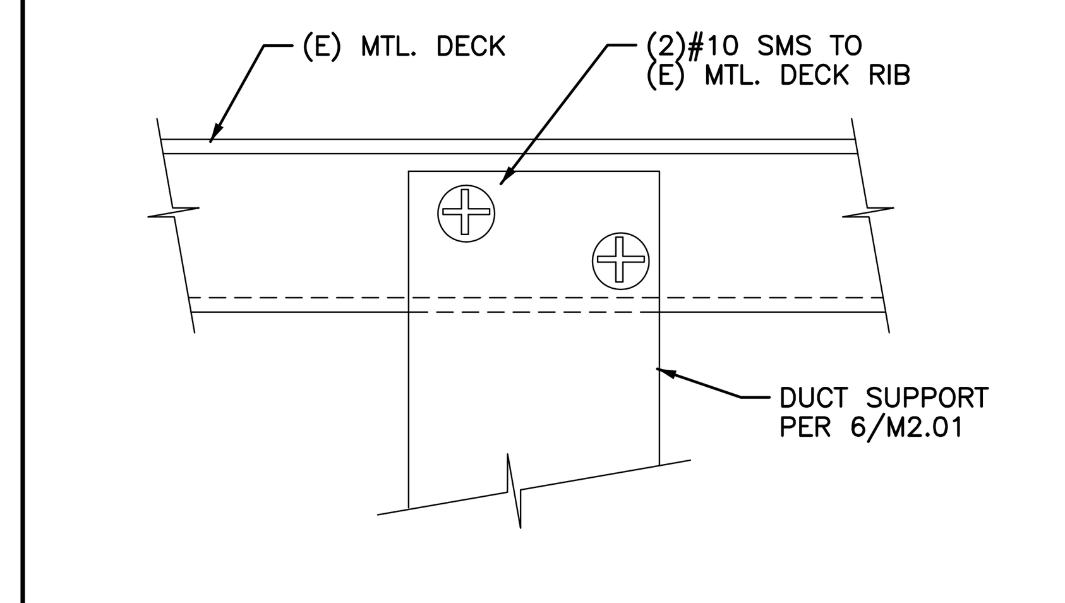
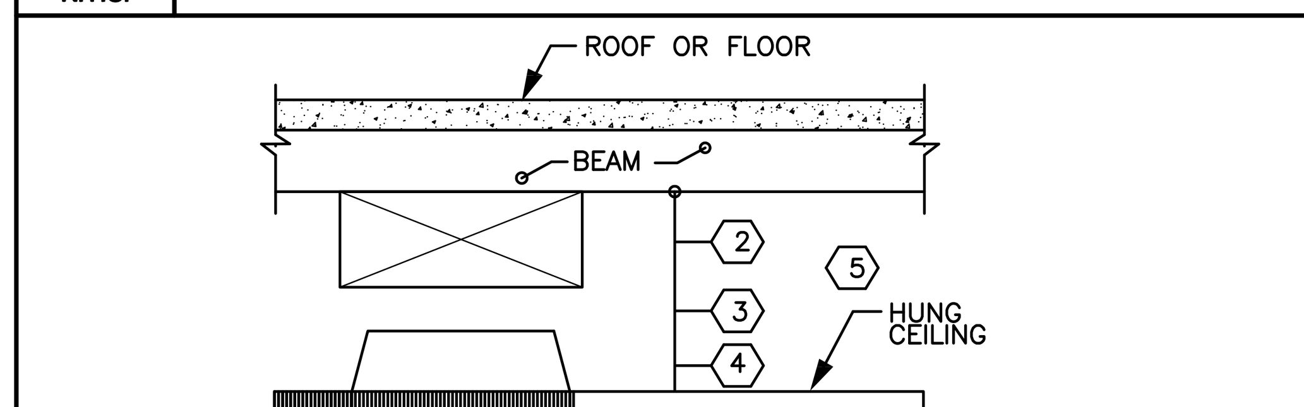
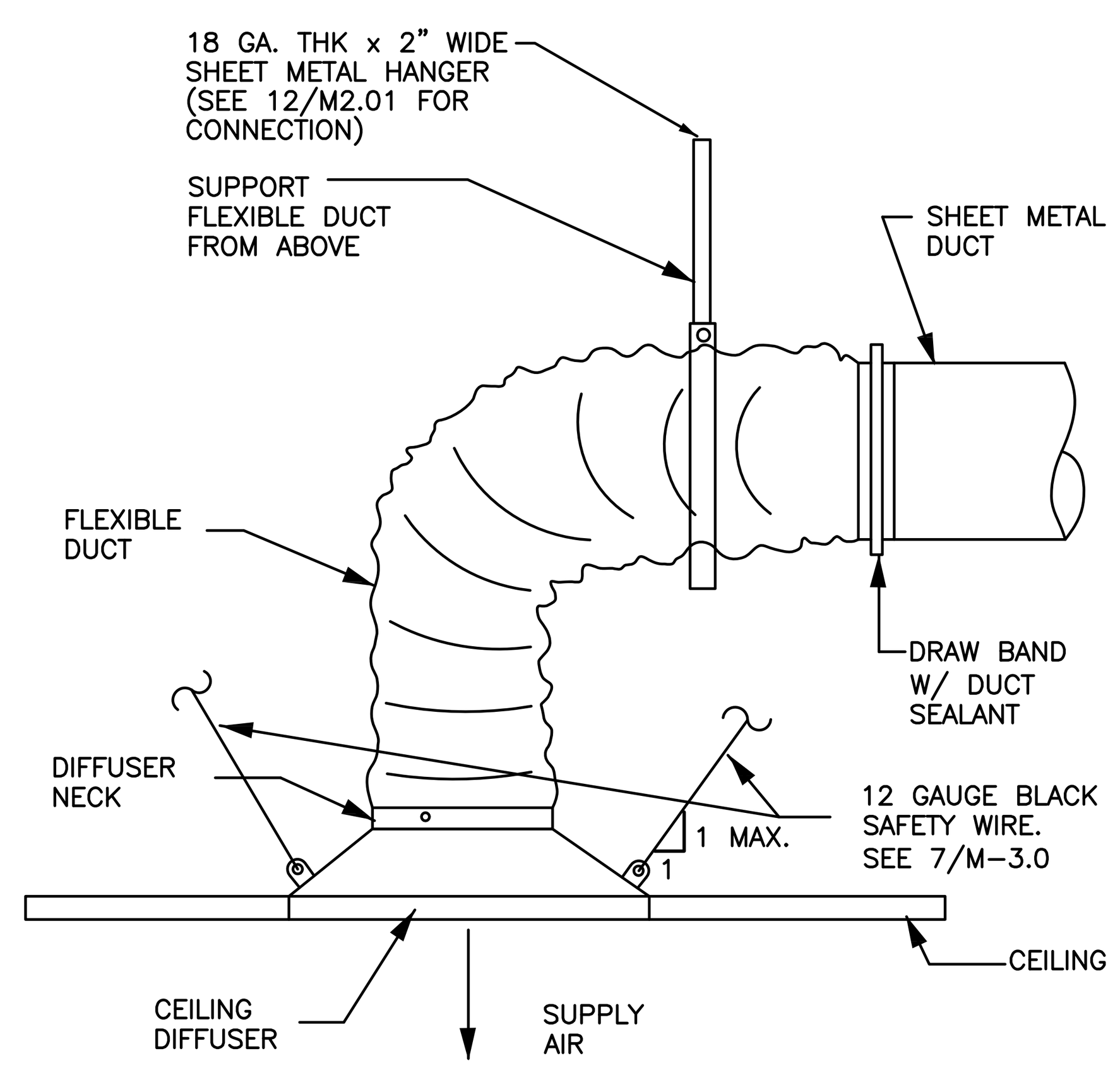


12 N.T.S. **DUCT SUPPORT CONNECTION**

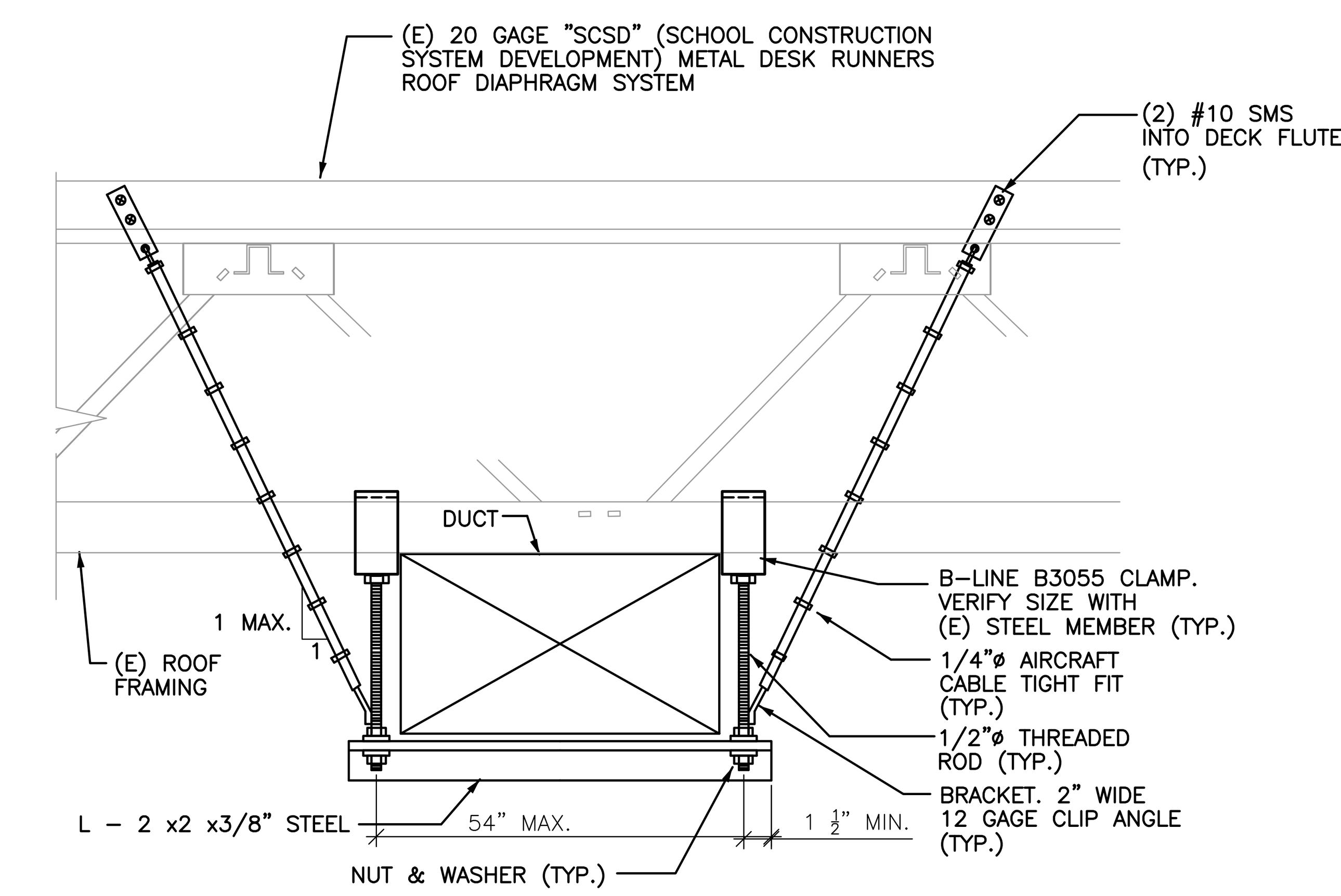


1. THE ABOVE DRAWING CLARIFIES THE DESIGN INTENT OF THE CONTRACT DOCUMENTS AND INDICATES TYPICAL ARRANGEMENT OF MECHANICAL AND ELECTRICAL WORK IN CEILING CAVITY.
2. AVAILABLE DUCT SPACE VARIES WITH DEPTH OF STEEL DUCT WORK SHALL BE MOUNTED TIGHT AGAINST BOTTOM OF MAYOR STRUCTURAL STEEL. ALL DUCTS SEAMS SHALL BE LOCATED BETWEEN BEAMS OR JOISTS.
3. MINIMUM OF 3" CLEARANCE SHALL BE MAINTAINED BETWEEN DUCT WORK AND TOP OF LIGHTING FIXTURES FOR SPRINKLER PIPING.
4. MINIMUM OF 8" CLEARANCE FOR LIGHTING FIXTURES SHALL BE MAINTAINED IN ALL AREAS.
5. ALL WORK PERFORMED IN CEILING SPACE SHALL DONE IN ACCORDANCE WITH NOTES 2,3 & 4 ABOVE. WHERE INSTALLATION OF MECHANICAL OR DOMESTIC WATER PIPING AND SANITARY STORM WATER PIPING ARE REQUIRED. THE CONTRACTORS SHALL ASSUME RESPONSIBILITY FOR FULLY COORDINATING THEIR WORK WITH ALL OTHER TRADES. UNDER NO CIRCUMSTANCE SHALL THE CLEARANCE FORIGHTING BE VIOLATED WITHOUT FULLY COORDINATING WORK WITH THE ELECTRICAL CONTRACTOR. MODIFICATIONS TO THE LIGHTING LAYOUT TO FACILITATE INSTALLATION OF WORK INVOLVING OTHER TRADES WILL NOT BE PERMITTED.

5 N.T.S. **TYPICAL ARRANGEMENT OF MECHANICAL AND ELECTRICAL WORK IN CEILING**



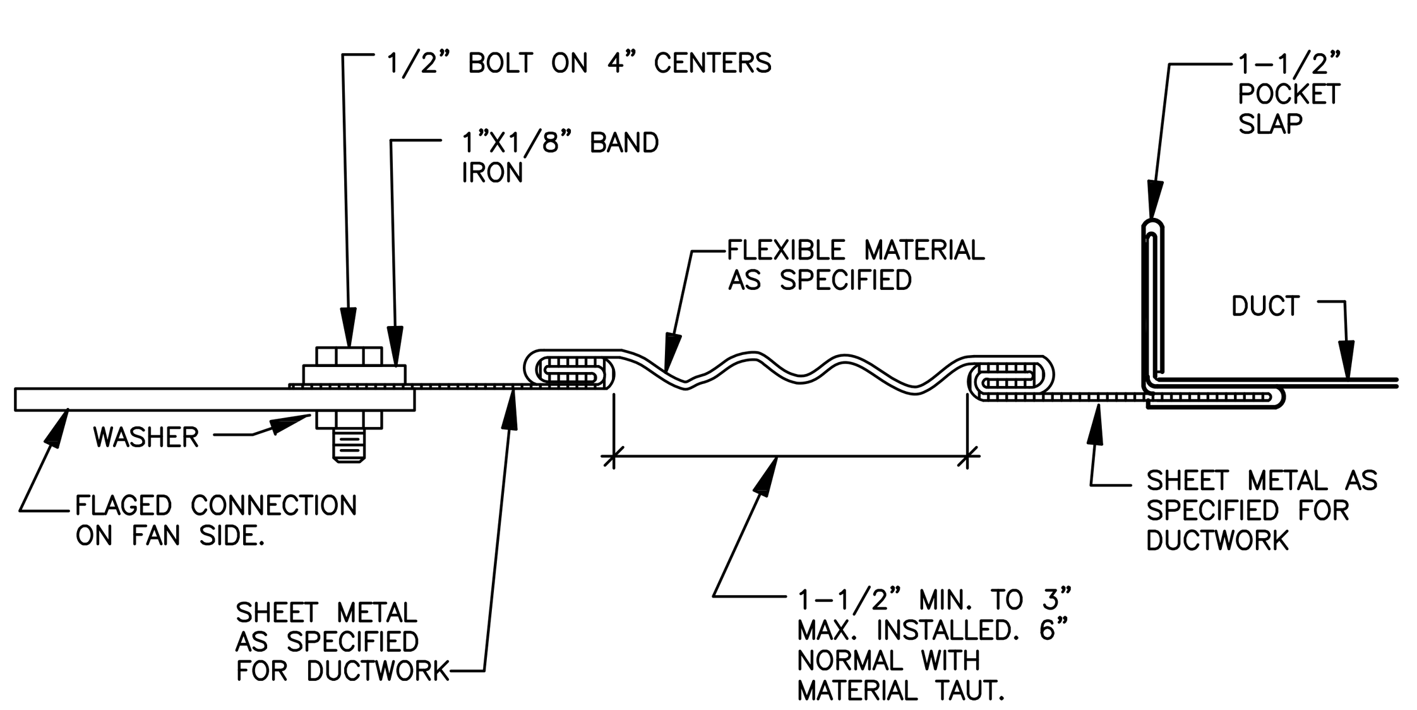
6 N.T.S. **SUPPLY AIR DIFFUSER DETAIL**



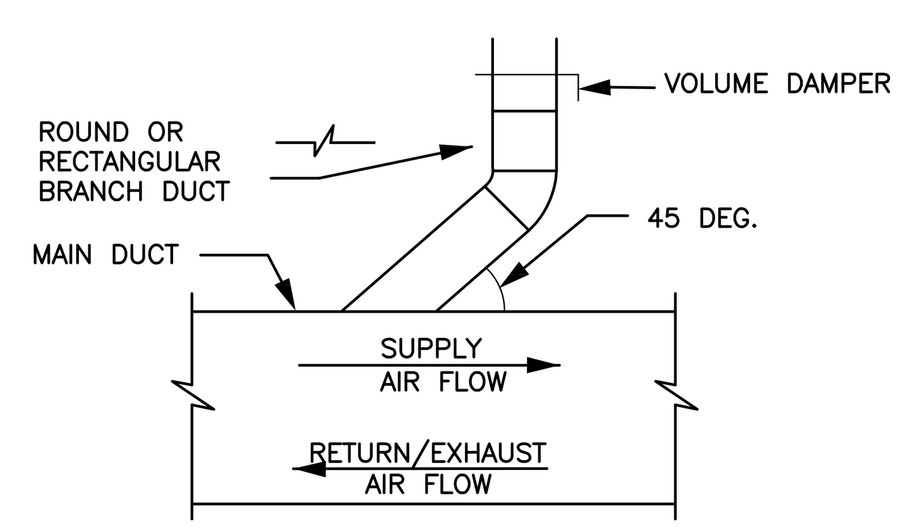
SMACNA NOTES:

1. ALL DUCTS AND PIPES SHALL BE SUPPORTED PER "SMACNA" GUIDELINES, OSHPD PRE–APPROVAL NUMBER R0010.
2. MAXIMUM SPACING OF VERTICAL HANGERS SHALL BE 10'.
3. LATERAL BRACING SHALL BE SPACED 30' MAXIMUM.
4. LONGITUDINAL BRACING SHALL BE SPACED 60' MAXIMUM. SEE 11/M2.01
5. ALL SHEET METAL FOR BRACING SHALL BE Fy=33 ksi MINIMUM.
6. MINIMUM U.S. STANDARD GAUGE FOR SHEET METAL USED FOR BRACING SHALL BE: 16GA, 14GA, 12GA.

7 N.T.S. **DUCT SUPPORT DETAIL**

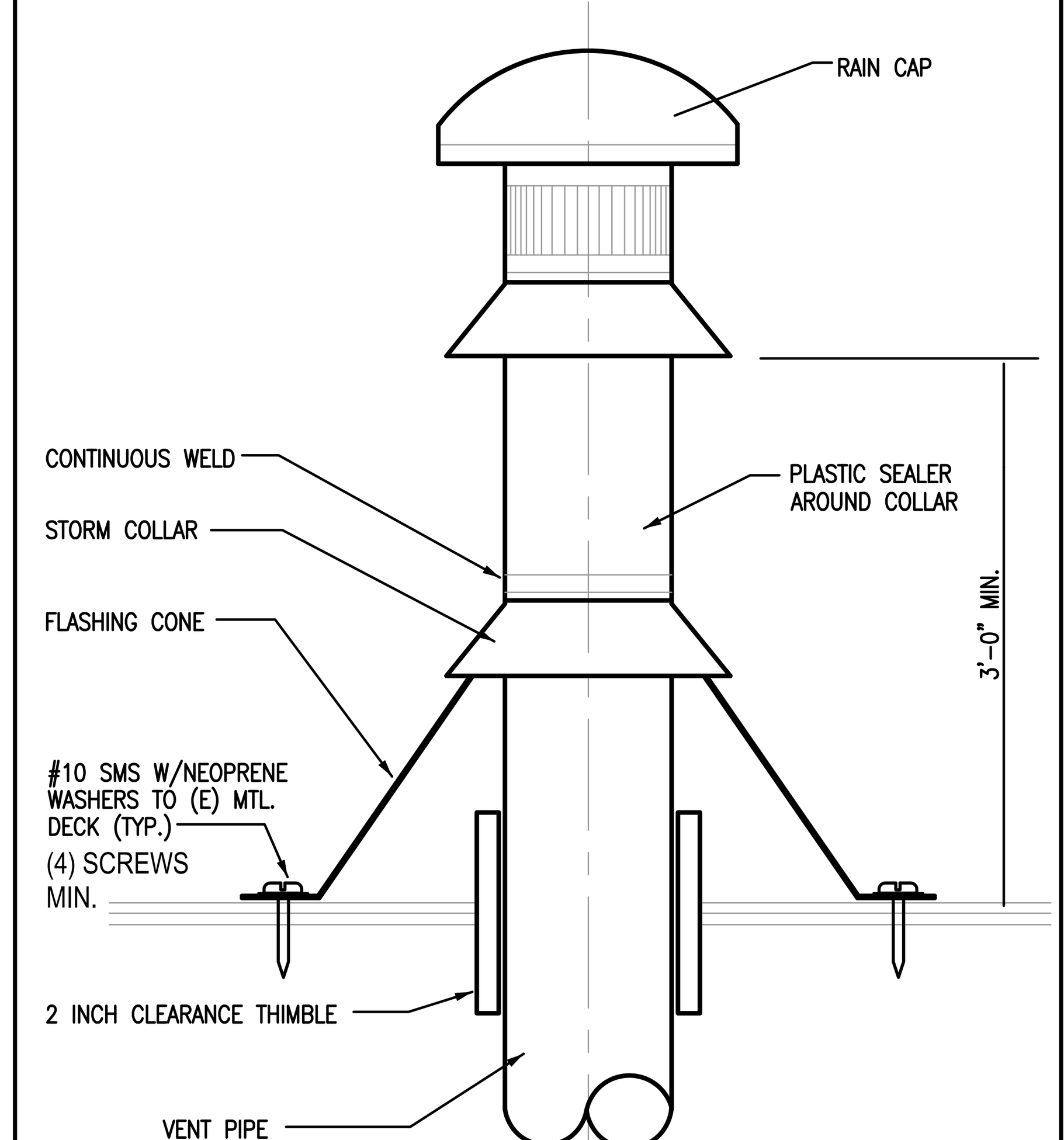


8 N.T.S. **RECTANGULAR FLEXIBLE CONNECTION**

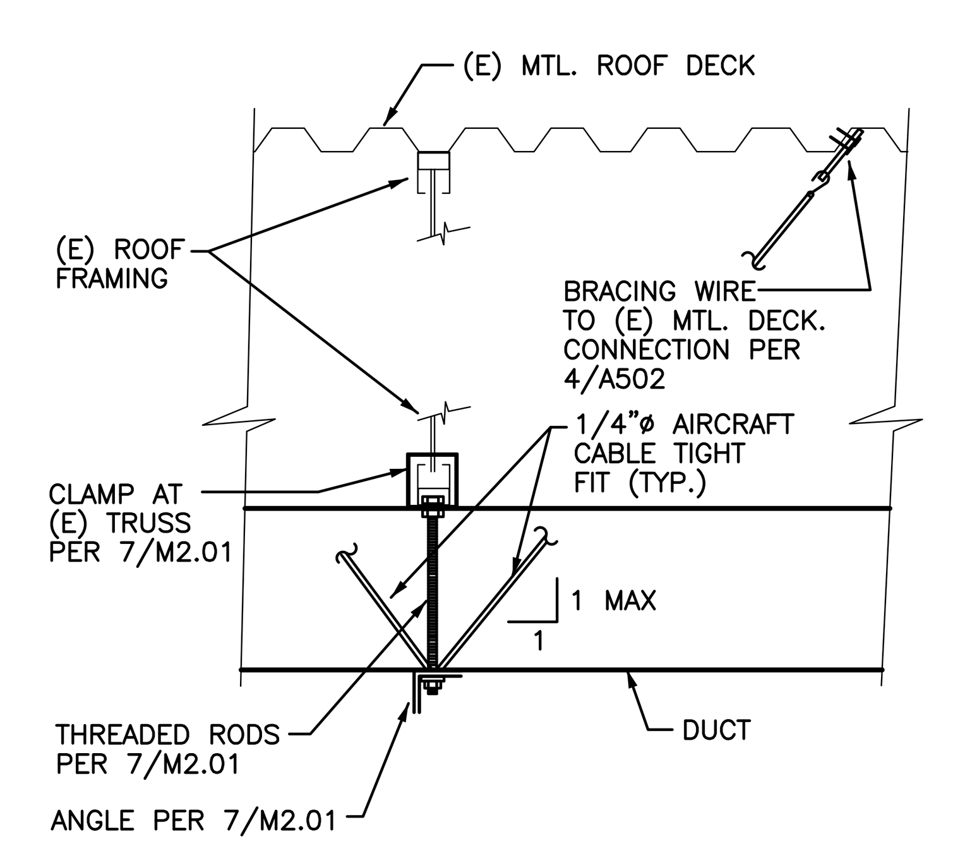


NOTES:
FURNISH THIS TYPE CONNECTION WHEN SINGLE ⊥ LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW.

9 N.T.S. **ROUND OR RECTANGULAR DUCT BRANCH CONNECTION DETAIL**



10 N.T.S. **VENT THRU ROOF DETAIL**



11 N.T.S. **LONGITUDINAL BRACING DETAIL**

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TYPICAL MECHANICAL DETAILS

M2.01

___ OF ___

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07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 5 OF 5 - Mechanical

APPLICABLE CODES

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APPLICABLE CODE AS OF JANUARY 1, 2020

PART 1- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2- 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA ADMENDMENTS)

PART 3- 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

PART 4- 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO AND 2019 CALIFORNIA AMENDMENTS)

PART 5- 2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO AND 2019 CALIFORNIA AMENDMENTS)

PART 6- 2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 9- 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

PART 10- 2019 CALIFORNIA EXISTING BUILDING CODE (2018 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

PART 11- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.

PART 12- 2019 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

GENERAL NOTES

1. CONTRACTOR SHOULD BE AWARE THAT WORK, ELECTRICAL IN NATURE, EXISTS ON VARIOUS PLANS. IT IS HIS DUTY TO ASSURE THAT ALL WORK SHOWN IS COVERED REGARDLESS OF LOCATION ON PLANS OR IN SPECIFICATION. INDICATIONS OF WHOM IS TO PERFORM WORK IS NOT TO BE CONSTRUED AS ABSOLUTE. THE ENGINEER IS IN NO WAY RESPONSIBLE FOR DELEGATION OF WORK, OR SCHEDULING OF VARIOUS SUBCONTRACTOR RESPONSIBILITIES, OR INVOLVED IN CONTRACTOR'S CONTRACTUAL AGREEMENT WITH THE OWNER.
2. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE FIRE MARSHAL REGULATIONS, AND ALL OTHER ORDINANCES HAVING JURISDICTION ALBEIT NOT SHOWN ON DRAWINGS OR SHOWN OTHERWISE.
3. OWNER WILL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION REQUIREMENTS, EXCEPT ANY REVIEW FEES REGARDING FIRE/LIFE SAFETY. NOTES THAT CLU DOES NOT PAY FOR FIRE ALARM CHECK AND INSPECTION. FEE MUST BE INCLUDED IN CONTRACTORS BID.
4. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
5. SAW CUT ASPHALT/CONCRETE, TRENCH, BACKFILL, COMPACT AND PATCH TO MATCH ADJACENT SURFACE.
6. WHEN TRENCHING IN LAWN/LANDSCAPING AREAS, CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY BROKEN IRRIGATION SYSTEM. ANY DISTURBED LAWN SHALL BE REPLACED WITH SOD TO MATCH EXISTING.
7. DUE TO VARYING INTERPRETATIONS OF THE CEC (LATEST EDITION ACCEPTED), THE ENGINEER CANNOT ACCEPT RESPONSIBILITY FOR WORK COMMENCING BEFORE LOCAL AUTHORITY REVIEW, INCLUDING FIRE/LIFE SAFETY.
8. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION UL LABEL WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY, AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.
9. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATED CONDITIONS, INCLUDING SITE CONDITIONS, FAULTY EQUIPMENT, MALFUNCTIONS, AND CO-ORDINATION BETWEEN SUBCONTRACTORS. ANY DISCREPANCY SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE BEGINNING WORK.
10. PROVIDE 3/8" LOW-FRICTION POLYPROPYLENE PULL ROPE IN ALL CONDUITS.
11. ALL UNDERGROUND CONDUITS SHALL BE PVC, SCHEDULE 40. BENDS AT RISERS AND RISERS SHALL BE PVC, SCHEDULE 80.
12. ALL EQUIPMENT USED SHALL BE UL LISTED AND LABELED BY A RECOGNIZED ELECTRICAL TESTING AGENCY.
13. ALL SYMBOLS SHOWN ON SYMBOL LIST ARE NOT NECESSARILY USED ON THIS PROJECT.
14. MINIMUM SIZE OF CONDUITS SHALL BE 3/4" U.O.N., MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG, U.O.N. ALL CONDUCTORS SHALL BE COPPER TYPE THHN/THWN INSULATION.
15. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NECA "MANUAL OF GOOD WORKMANSHIP" (STANDARD OF INSTALLATION).
16. THE DRAWINGS INDICATE, IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS AND ARRANGEMENT OF THE COMPONENTS OF THE ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS AND UNDEFINED CONSTRUCTION DETAILS, AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS. INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL STEEL OR OTHER SYSTEMS.
17. ALL POWER FEEDERS AND BRANCH CIRCUITS, REGARDLESS OF TYPE OF RACEWAY OR LOCATION SHALL CARRY A GROUND WIRE, SIZED PER N.E.C. – NO EXCEPTIONS.
18. SUBMIT FIVE (5) COPIES OF SHOP DRAWINGS AND MATERIAL LIST TO ARCHITECT/ELECTRICAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF EQUIPMENT.
19. TEST THE ENTIRE SYSTEM TO DEMONSTRATE THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION.
20. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
21. AT COMPLETION OF THE JOB, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THREE (3) COMPLETED SETS OF AS-BUILT AND COLOR SCAN OF RED LINES IN DIGITAL FORMAT OF ELECTRICAL PLANS SHOWING LOCATIONS OF FIXTURES, OUTLETS, CONDUIT RUNS AND PANELBOARD CIRCUIT NUMBERS.
22. CONTRACTOR SHALL PROVIDE ACCURATE DIRECTORIES IN PANELBOARD FRONTS AT COMPLETION OF CONSTRUCTION. PANELBOARD DIRECTORIES SHALL INCLUDE THE SUITE NUMBER OR NAME WHERE EXISTING LOADS OCCUR.
23. THREE FULL LEGIBLE COPIES OF ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, COMPLETE, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
24. CUTTING AND PATCHING, REGARDLESS OF WHETHER RELATED TO NEW WORK (RELOCATION) OR TO EXISTING WORK (CHANGE ORDER), SHALL BE PERFORMED BY PERSONS KNOWLEDGEABLE OF THE MATERIAL TO BE AFFECTED. ALL CORES, CUTS, SLEEVES, AND PENETRATIONS SHALL BE CLEARED FOR LOCATION AND TYPE BY THE ARCHITECT BEFORE BEING PLACED.
25. ELECTRICAL INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF 2019 CEC.
26. ALL ELECTRICAL ITEMS SHOWN IN LIGHT LINES ARE EXISTING. ALL ITEMS SHOWN IN HEAVY LINES SHALL BE NEW, UNLESS NOTED OTHERWISE.
27. NOT USED.
28. WHEN TRENCHING FOR NEW UNDERGROUND CONDUITS, EXERCISE CARE TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES.
29. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE AND EXTENT OF THE WORK TO BE DONE, TAKING INTO ACCOUNT ANY SPECIAL OR UNUSUAL FEATURES PECULIAR TO THIS JOB.
30. ALL SPLICING OF MEDIUM VOLTAGE CABLES SHALL BE PERFORMED BY TRAINED AND EXPERIENCED ELECTRICIAN WITH CURRENT MEDIUM VOLTAGE CABLE SPLICING CERTIFICATE. THE CERTIFICATE SHALL BE SUBMITTED TO CLU PRIOR TO COMMENCING THE WORK.

STARTUP AND COMMISSIONING NOTES:

1. CONTRACTOR SHALL PERFORM A PRE-COMMISIONING AND TROUBLESHOOTING SESSION IN THE BUILDING WITH OWNER, ELECTRICAL ENGINEER AND LIGHTING CONTROL FIELD TECHNICIAN TO SET UP THE BUILDING CONTROL SYSTEM AND CONFIRM FUNCTIONALITY, PRIOR TO THE ACTUAL BUILDING COMMISSIONING.
2. CONTRACTOR SHALL PROVIDE A TECHNICIAN WITH LAPTOP AND REPLACEMENT PARTS AND TROUBLESHOOTING KIT (ON-OFF) FOR A MINIMUM OF TWO DAYS TO PROVIDE PROGRAMMING AND PRE-COMMISSIONING SERVICES. THIS PRE-COMMISSIONING SHALL BE SCHEDULED IN ADVANCE WITH CAL LUTERAN, AND CAL LUTERAN WILL BE PRESENT TO VERIFY CORRECT OPERATION OF SYSTEM AND COMPLIANCE.

STANDARD SYMBOL LIST

SYMBOL	DESCRIPTION
	2'x4' RECESSED LED FIXTURE
	1'x4' SURFACE MOUNTED LED FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	WALL MOUNTED LIGHTING FIXTURE
	RECESSED OR SURFACE DOWNLIGHT FIXTURE
L	LOW LEVEL, EXIT SIGN
	EXIT SIGN, CEILING OR WALL MOUNTED, PROVIDE ARROWS AS INDICATED
A 45	FIXTURE IDENTIFICATION: "A" – TYPE OF FIXTURE "47"– TOTAL WATTAGE
Sa	SINGLE POLE SWITCH @+4'-0"; "a" INDICATES OUTLETS SWITCHED
SaSb	SWITCH WITH GANG ASSEMBLY @ +4'-0"
Sm	MOTOR RATED SWITCH SINGLE POLE WITH THERMAL OVERLOAD PROTECTION
SF	WALL MOUNTED SWITCH FOR FAN SPEED CONTROL, MINKA AIRE WC105-WH, 2 WIRE, 4 SPEED.
	DUPLEX RECEPTACLE, NEMA 5-20R, @ +15" U.N.O.
	DUPLEX RECEPTACLE WITH DUAL USB CHARGER PORTS, NEMA 5-20R, @ +15" U.N.O.
	DUPLEX RECEPTACLE WITH DUAL USB PORTS, MOUNTED ON WIREMOLD
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, @ +15" U.N.O.
	DOUBLE DUPLEX RECEPTACLE, MOUNTED ON WIREMOLD
W.P.	G.F.I. TYPE RECEPTACLE, WITH W.P. "WHILE-IN-USE" COVER WHERE SHOWN WITH W.P., MOUNTING HEIGHT AS SHOWN
	SPECIAL RECEPTACLE – TYPE AS NOTED, @ +15" U.N.O.
	DUPLEX RECEPTACLE, FIXED CEILING MOUNTED
	DOUBLE DUPLEX RECEPTACLE, FIXED CEILING MOUNTED
	DUPLEX RECEPTACLE, RETRACTABLE CEILING MOUNTED
	SPECIAL RECEPTACLE – TYPE AS NOTED, CEILING MOUNTED
	FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
2	FLOOR BOX WITH DUPLEX RECEPTACLE, NEMA 5-20R AND DATA PORTS, AS INDICATED ON DRAWINGS
1	DATA OUTLET WITH (1) DATA PORT, @ +15" U.N.O.
2	DATA OUTLET WITH (2) DATA PORTS, @ +15" U.N.O.
2	DATA OUTLET WITH (2) DATA PORTS, MOUNTED ON WIREMOLD
2	DATA OUTLET WITH (2) DATA PORTS, CEILING MOUNTED
3	SIGNAL OUTLET WITH (1) DATA, (1) FIBER AND (1) COAX PORTS, @ +15" U.N.O.
PC	PHOTOCELL
	MOTOR
	COMBINATION DISCONNECT SWITCH AND MOTOR STARTER, SIZE AND TYPE AS NOTED
F	DISCONNECT SWITCH, SIZE AND TYPE AS NOTED ("F" INDICATES FUSED)
J	JUNCTION BOX-SIZE PER CODE MIN. 2¼"D, WALL MOUNTED
J	JUNCTION BOX, CEILING MOUNTED
	CONDUIT RUN CONCEALED IN WALL OR CEILING
	CONDUIT RUN CONCEALED UNDERGROUND OR UNDER FLOOR
	CONDUIT RUN EXPOSED
	CROSS LINES INDICATE NUMBER OF #12 CONDUCTORS. NO CROSS LINES INDICATE 2#12. ALL CONDUITS TO INCLUDE GREEN EQUIPMENT GROUNDING CONDUCTOR (NOT INDICATED AS CROSS LINE)
	CONDUIT UP
	CONDUIT DOWN
A-1,3	BRANCH CIRCUIT HOME RUN TO PANELBOARD, 3/4"C (UNLESS OTHERWISE NOTED), LETTER AND NUMBER NOTATION IDENTIFY PANEL AND CIRCUIT NUMBERS

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DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

MEP Component Anchorage Notes:

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapter 13,26 and 30.

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

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

A. Components weighting less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighting less than 20 pounds, or in the case of distributed system, 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 above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacement 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 2019 CBC, Sections 167A.1.24, 1617A.1.25 and 1617A.1.26.

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

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

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

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

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PROJECT No. 48701

REGISTERED PROFESSIONAL ENGINEER
IGOR SHNAYDER
No. E11075
EXPIRES 06-30-21
ELECTRICAL
STATE OF CALIFORNIA

AMADOR WHITTLE
ARCHITECTS, INC.

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: N.J.
		JOB NO: 19-SVUSD-031

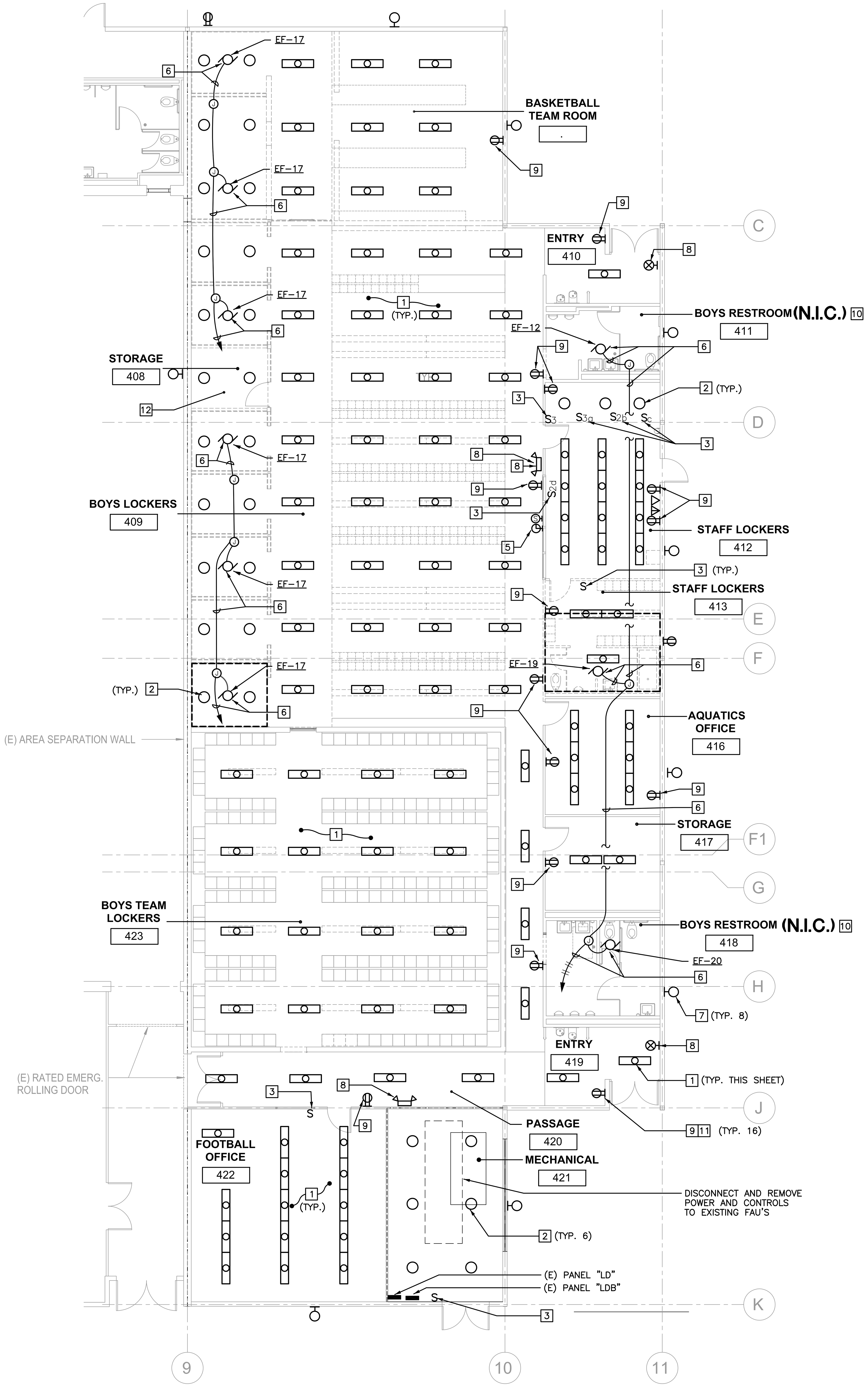
ELECTRICAL SYMBOL LIST, GENERAL NOTES AND SCHEDULES

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

E0.01

___ OF ___

Job No. 48701; FILE: M:\AWA_Projects\48701-RoyalHS-BoysLR\E0-01.dwg; Layout1 Ref. Files: SHEET.dwg
Plot Date: 09-15-20, 04:06pm; Plot scale: 1=1-PS By: S.L. Prev. plot: 09-15-20, 03:08pm
07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 1 OF 7 - Electrical



DEMOLITION NOTES:

1. DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED FLUORESCENT FIXTURE. STRIP OUT CONDUCTORS BACK TO PANEL. SEE SHEET E1.05 FOR AS-BUILT CONDITION (PROVIDED FOR REFERENCE).
2. DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED FIXTURE. STRIP OUT CONDUCTORS BACK TO PANEL.
3. DISCONNECT AND REMOVE EXISTING LIGHT SWITCH, RETAIN OUTLET BOX. STRIP OUT CONDUCTORS.
4. NOT USED.
5. DISCONNECT AND REMOVE EXISTING SIGNAL DEVICES. RETAIN DEVICES FOR REINSTALLATION. RETAIN EXISTING SIGNAL WIRING.
6. DISCONNECT EXISTING FAN AND REMOVE EXISTING CONDUCTORS BACK TO SOURCE. RETAIN RACEWAY FOR RE-USE.
7. DISCONNECT AND REMOVE EXISTING WALL MOUNTED EXTERIOR FIXTURE. STRIP OUT CONDUCTORS BACK TO PANEL. RETAIN BOX AND CONDUIT FOR RE-USE.
8. DISCONNECT AND REMOVE EXISTING EXIT SIGN/EMERGENCY LIGHT FIXTURE. REMOVE EXISTING EXPOSED RACEWAYS, REMOVE CONDUCTORS BACK TO SOURCE.
9. DISCONNECT AND REMOVE EXISTING RECEPTACLE. STRIP OUT CONDUCTORS BACK TO SOURCE. RETAIN BOX AND CONDUIT FOR RE-USE.
10. EXISTING CIRCUITING TO LIGHTING BEYOND REMODEL AREA TO REMAIN.
11. EXISTING CIRCUITING TO RECEPTACLES BEYOND REMODEL AREA TO REMAIN.
12. DISCONNECT AND REMOVE EXISTING EXPOSED RACEWAY AND DEVICES.

1 ELECTRICAL DEMOLITION PLAN

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

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ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: N.J.
		JOB NO: 19-SVUSD-031

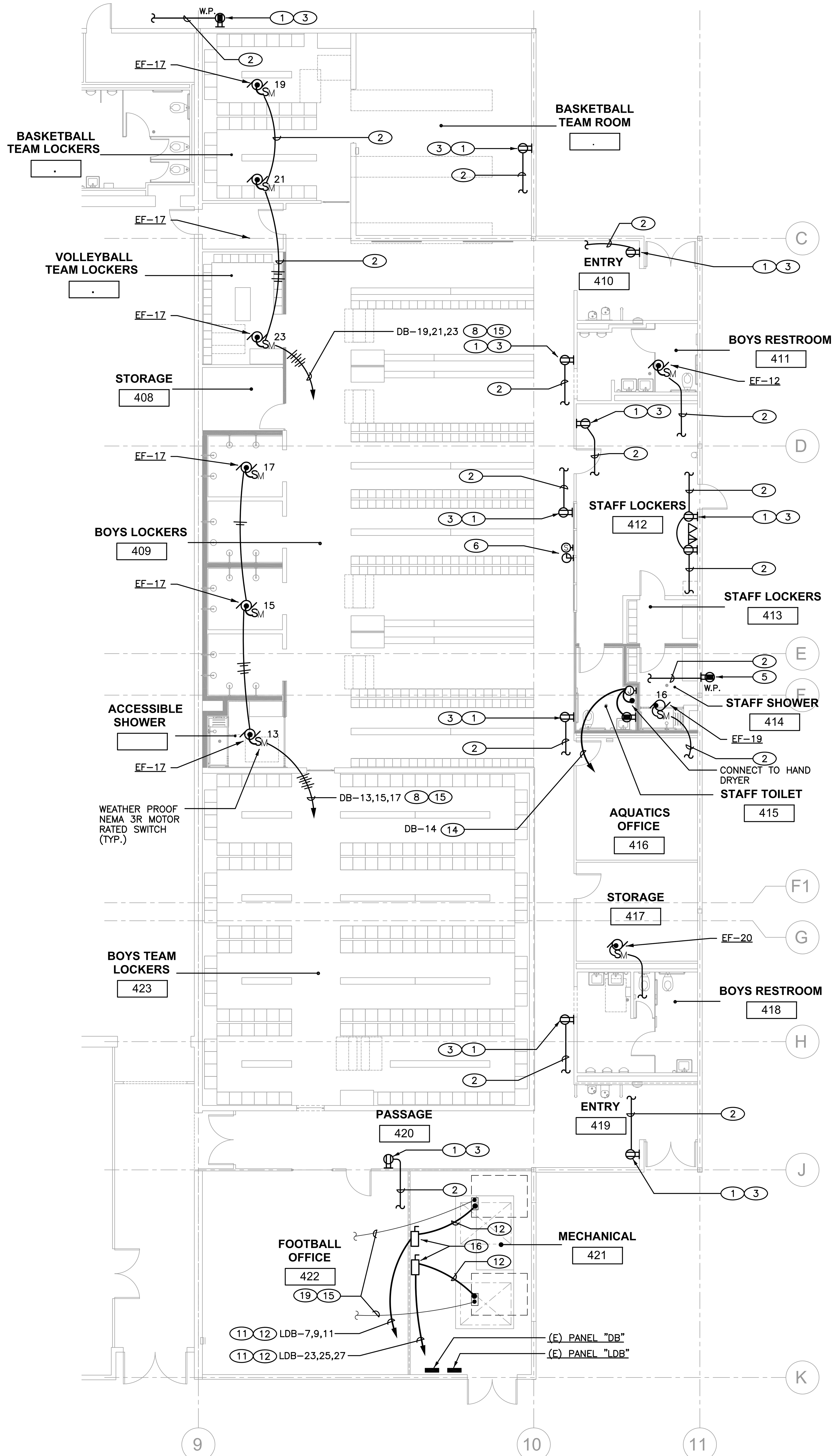
ELECTRICAL DEMOLITION PLAN

E1.01

___ OF ___

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 2 OF 7 - Electrical



1 POWER PLAN

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

NOTES:

1. PROVIDE DEVICES IN EXISTING OUTLET BOX.
2. PROVIDE CONDUCTORS IN EXISTING RACEWAY. FOR EXISTING RACEWAY SEE REFERENCE DRAWING SHEET E1.05.
3. PROVIDE STAINLESS STEEL FACEPLATE.
4. NOT USED.
5. PROVIDE GFI RECEPTACLE IN EXISTING OUTLET BOX WITH LOCKABLE "IN-USE" COVER.
6. REINSTALL EXISTING SIGNAL DEVICES AT SAME LOCATION AS BEFORE. RECONNECT TO EXISTING WIRING.
7. PROVIDE 20A, 125VAC, 1-POLE, W.P., MOTOR RATED TOGGLE SWITCH.
8. VIA CONTROL BOARD IN MECH. ROOM 421.
9. NOT USED.
10. REMOVE EXISTING 30A, 3P BREAKER AT PANEL "LD".
11. PROVIDE 30A, 3P BREAKER IN EXISTING SPACE AT PANEL "LD" TO MATCH EXISTING IN MAKE AND A.I.C. RATING.
12. 3/4"C, 3#10 & 1#12 GROUND.
13. 1/2"C.O. TO FAU-1 & FAU-2.
14. PROVIDE 20A, 1P BREAKERS IN EXISTING SPACE TO MATCH EXISTING IN MAKE AND A.I.C. RATING.
15. SEE MECHANICAL PLANS FOR CONTROLS REQUIREMENTS.
16. 60A, 3P FUSED DISCONNECT SWITCH. PROVIDE FUSES PER MANUFACTURER'S RECOMMENDATIONS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

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PROJECT No. 48301

REGISTERED PROFESSIONAL ENGINEER — SHAH... No. E11075 EXPIRES 06-30-21 ELECTRICAL — STATE OF CALIFORNIA

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LICENSED ARCHITECT — JEAN ANN AMADOR — C-22205 — APRIL 30, 2021 RENEWAL DATE — STATE OF CALIFORNIA

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: N.J.
		JOB NO: 19-SVUSD-031

POWER PLAN

E1.02

___ OF ___

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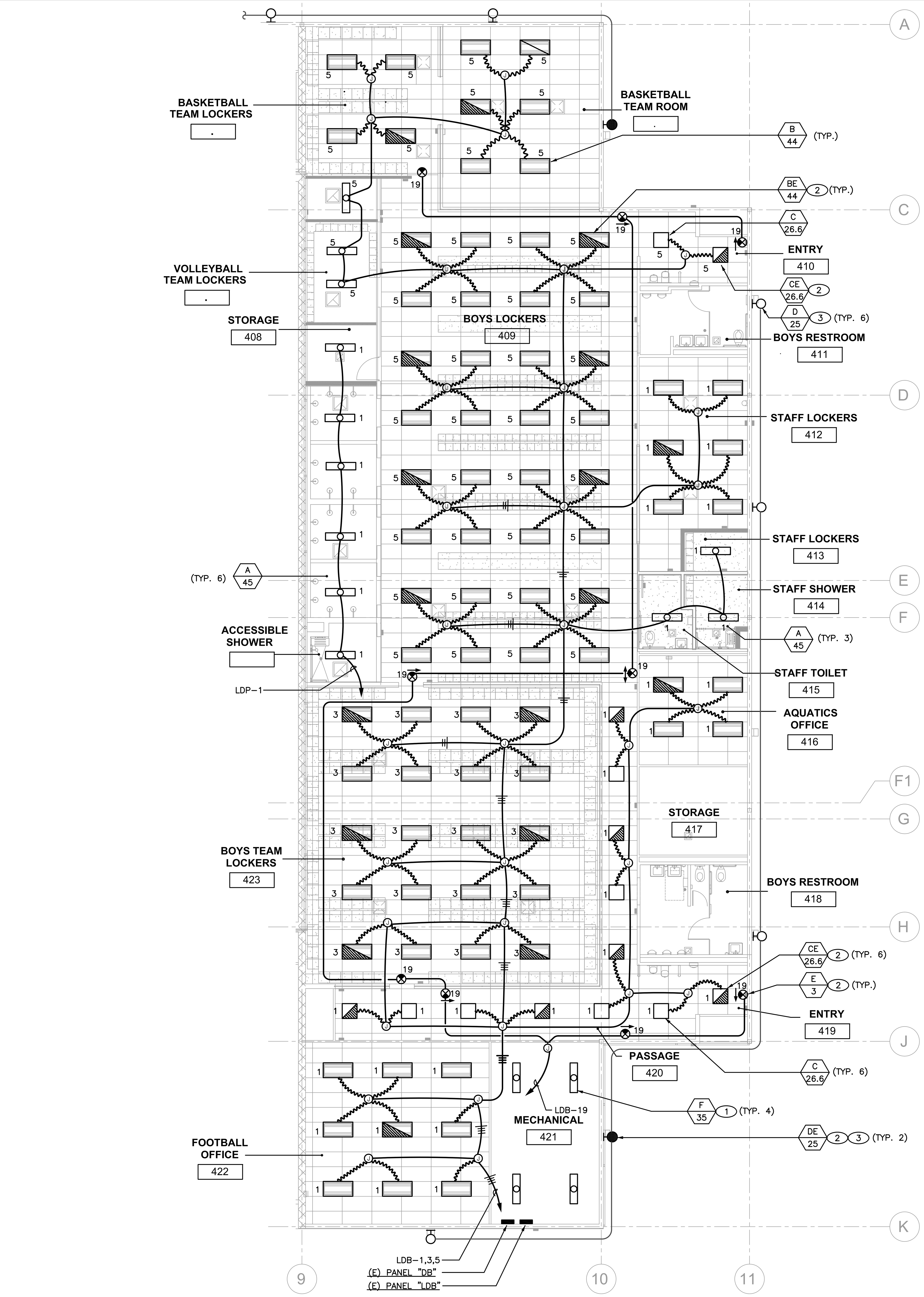
07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 3 OF 7 - Electrical



1 LIGHTING PLAN

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

PANEL **LDB** 277 / 480 V, 3 PHASE, 4 WIRES — MAIN BREAKER ____ AMP

LOCATION: **MECH. ROOM 421** — MOUNTING: **SURFACE** — BUS RATING: **225 A**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	KEL	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER	CIRCUIT BREAKER	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	KEL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1				LIGHTING MISC. RMS.						1	20	■			100							MA1U				2
3				LIGHTING LOCKER RMS.						1	20		■									-----				4
5				LIGHTING LOCKER RMS.						1	20			■		3						-----				6
7				AHU-1							40	■			20							A/C 1				8
9				-----									■									-----				10
11				-----						3				■		3						-----				12
13				EXISTING LOAD							100	■			20	1						SPARE				14
15				-----									■		20	1										16
17				-----						3				■	20	1										18
19				EMERGENCY EXIT SIGNS						1	20	■			20	1						SPACE				20
21				SPARE						1	20		■		20	1										22
23				AHU-1							40			■	20	1										24
25				-----								■			20	1										26
27				-----						3			■													28
29				SPACE										■												30
31												■														32
33													■													34
35														■												36
						SUBTOTALS																				

NOTES:

	LINE A	LINE B	LINE C	
LINE TOTALS				
LCL ADDER				
TOTAL VA/PH				
LINE AMPS				

NOTES:

1. INSTALL ON EXISTING OUTLET BOX.
2. PROVIDE UNSWITCHED CIRCUIT LEG TO ALL FIXTURES WITH EMERGENCY BATTERY PACK.
3. EXTERIOR LED WALL SCONCE WITH PHOTOCELL. MOUNT ON EXISTING BOX AND CONNECT TO EXISTING CIRCUIT.

LUMINARE LIST

TYPE / WATTS	LAMPS TYPE	120	MVOLT	480	REC	SURF	PEND	WALL	STEP	GRND	POLE	MANUFACTURER	CATALOG No.	REMARKS
A / 45	LED		●			●						KENALL	ES5-48-F-MW-CIA-1-45L40K-DCC-1-DV-PP	
B / 44	LED		●		●							LITHONIA	2VRTL-G-48- 5000LM-ICW-AP125FL-MVOLT-EZ1-40K-80CRI-NPS80EZ	2'x4' RECESS
BE / 44	LED		●		●							LITHONIA	2VRTL-G-48- 5000LM-ICW-AP125FL-MVOLT-EZ1-40K-80CRI-E10WLCP-NPS80EZ	2'x4' RECESS WITH BATTERY PACK FOR 90 MINUTES
C / 26.6	LED		●		●							LITHONIA	2VRTL-G-24- 3000LM-ICW-AP125FL-MVOLT-EZ1-40K-80CRI-NPS80EZ	2'x4' RECESS
CE / 26.6	LED		●		●							LITHONIA	2VRTL-G-24- 3000LM-ICW-AP125FL-MVOLT-EZ1-40K-80CRI-E10WLCP-NPS80EZ	2'x4' RECESS WITH BATTERY PACK FOR 90 MINUTES
D / 25	LED		●					●				LITHONIA	WST-LED-P2-40K-VF-MVOLT-X-PE-DDBXD	EXTERIOR LED WALL SCONCE W/PHOTOCELL
DE / 25	LED		●					●				LITHONIA	WST-LED-P2-40K-VF-MVOLT-X-E20WH-DDBXD	SAME AS "D" WITH EMERGENCY BATTERY PACK FOR 90 MIN.
E / 3	LED		●			●						KENALL	METSU-MW-G-DT-EL	EXIT LIGHT WITH EMERGENCY BATTERY PACK FOR 90 MIN.
F / 35	LED		●			●						LITHONIA	MNSL-L48-MVOLT-40K-80CRI-M6	STRIP LIGHT

J & S CONSULTING ENGINEERS, INC.
ELECTRICAL ▪ MECHANICAL ▪ FIRE PROTECTION
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470 Helga Ct., Suite 100, Newbury Park, Ca. 91320
Tel.:(818) 841-0303 Fax: (818) 841-8531
E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48361

AMADOR WHITTLE ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

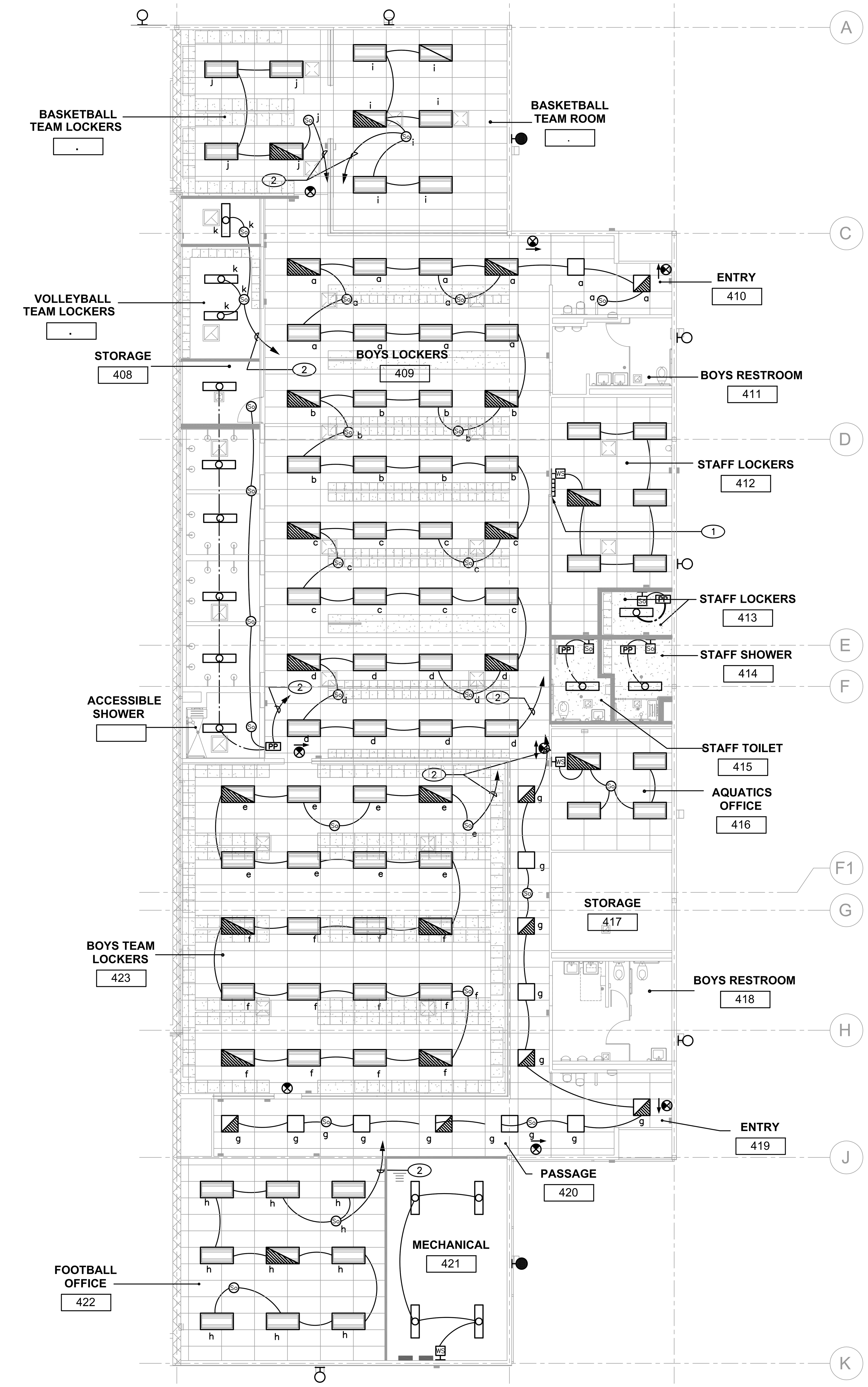
1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: N.J.
		JOB NO: 19-SVUSD-031

LIGHTING PLAN

E1.03

___ OF ___



1 LIGHTING CONTROL PLAN
SCALE: 1/8" = 1'-0"

NOTES:

1. PROVIDE WALL-POD SWITCHBANK IN STAFF ROOM AND PROVIDE ENLARGED NAME PLATE PER AREA CONTROLLED (SEE DETAIL 2, THIS SHEET).
2. TO WALL-POD IN STAFF ROOM 412.

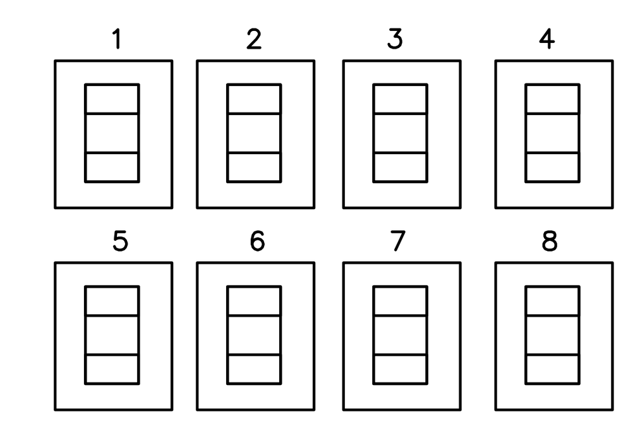


PLATE SCHEDULE:

1 – BASKETBALL TEAM ROOM
2 – BASKETBALL TEAM LOCKERS
3 – VOLLEYBALL TEAM LOCKERS
4 – SHOWERS
5 – BOYS LOCKERS– NORTH
6 – BOYS LOCKERS– SOUTH
7 – FOOTBALL OFFICE
8 – CORRIDOR

2 WALL-POD SWITCHBANK
SCALE: N.T.S.

SYMBOLS

SYMBOL	DESCRIPTION	nLIGHT CAT. #
	CAT 5 CABLE	
	0–10V LOW VOLTAGE WIRING	
PP	POWER/RELAY RACK	nPP16–D
WH	WALL MOUNTED SWITCH/DIMMER WITH OCCUPANCY SENSOR	nWSX–PDT–LV–DX
WSC	WALL POD SCENE CONTROLLER	nPODM–2S–DX–WH
	CEILING MOUNTED OCCUPANCY SENSOR	nCM–PDT–10–RJB
SH	SINGLE GANG WALL SWITCH	nPODM–DX–WH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

J & S CONSULTING ENGINEERS, INC.
ELECTRICAL • MECHANICAL • FIRE PROTECTION
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Tel.: (818) 841-0303 Fax: (818) 841-8531
E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48381

REGISTERED PROFESSIONAL ENGINEER
SHAMBER
No. E11075
EXPIRES 06-30-21
ELECTRICAL
STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938, (818) 874-0071

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: N.J.
		JOB NO: 19-SVUSD-031

LIGHTING CONTROL PLAN

E1.04

___ OF ___

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

Indoor Lighting

NRCC-LTI-E (Created 7/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.		
Project Name: Royal HS Boys Locker Room Renovation	Report Page:	Page 1 of 8
Project Address: 1402 Royal Ave	Date Prepared:	3/27/2020

A. GENERAL INFORMATION

01	Project Location (city)	Simi Valley	04	Total Conditioned Floor Area (ft²)	7,836
02	Climate Zone	9	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☑ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☑ School ☑ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☑ Other (write in): Locker Rooms

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work		Conditioned Spaces		Unconditioned Spaces	
01		02	03	04	05
My Project Consists of (check all that apply):		Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System					
		Add Parking Garage-Complete Bldg Method		Remove Parking Garage	
☑ Altered Lighting System	Entire Luminaire Alteration	Area Category	7,836	Area Category	0
		Add Altered Lighting System		Remove Last Altered System	
	Total Area of Work (ft²)	**7,836**		**0**	

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)							Actual Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04		05		06	07	08		09	10
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Footnotes §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments: Portable Lighting §140.6(a) (-)	Adjustments: PAF Control Credits §140.6(a)2 (-)	=	**Total Actual** (Watts) *Includes Adjustments	**05 Must be ≥ 09** §140.6
	(See Table I)	(See Table I)	(See Table K)	(See Table L)				(See Table F)	(See Table J)	(See Table R)			
Conditioned:		5,734.65			=	**5,734.65**	≥	4,544.8			=	**4,544.8**	**COMPLIES**
Unconditioned:					=		≥				=		
											Controls Compliance (See Table H for Details)		**COMPLIES with Exceptional Conditions**
											Rated Power Reduction Compliance (See Table S for Details)		**Not Applicable**

Indoor Lighting

NRCC-LTI-E (Created 7/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Royal HS Boys Locker Room Renovation	Report Page:	Page 2 of 8
Project Address: 1402 Royal Ave	Date Prepared:	3/27/2020

D. EXCEPTIONAL CONDITIONS

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

Table H. Indoor Lighting Controls Permit Applicant Notes:
Boys Lockers 409 / Entry 410: Annunciated Dimmers located in Staff Rm.
Boys Teams Lockers 423: Annunciated Dimmers located in Staff Rm.
VolleyBall Team Lockers: Annunciated Dimmers located in Staff Rm.
BasketBall Team Lockers: Annunciated Dimmers located in Staff Rm.
BasketBall Team Room: Annunciated Dimmers located in Staff Rm.
Showers: Annunciated Dimmers located in Staff Rm.
Staff Lockers 413: 1 Fixture, <100sf
Staff Shower 414: 1 Fixture, <100sf
Staff Toilet 415: 1 Fixture, <100sf
Passage 420 / Entry 419: Annunciated Dimmers located in Staff Rm.
FootBall Office 422: Annunciated Dimmers located in Staff Rm.
Mechanical Room 421: <0.5 w/sf

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

01	02	03		04	05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Specialized Luminaire Types: Track	Specialized Luminaire Types: Portable	Watts per luminaire[1]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector: Pass	Field Inspector: Fail
A/45	45W 1X4 SURFACE Wraparound	☐	☐	45	Mfr. Spec[1]	10	☐	450	☐	☐
B/44	44W 2X4 RECESSED DIMMABLE	☐	☐	44	Mfr. Spec[1]	79	☐	3,476	☐	☐
C/26.6	26.6W 2X2 RECESSED DIMMABLE	☐	☐	26.6	Mfr. Spec[1]	18	☐	478.8	☐	☐
F/35	35W 1X4 SURFACE STRIP	☐	☐	35	Mfr. Spec[1]	4	☐	140	☐	☐
						Total Designed Watts CONDITIONED SPACES:		**4,544.8**		
							Reset	Add Row	Remove Last	

[1]NOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

Indoor Lighting

NRCC-LTI-E (Created 7/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Royal HS Boys Locker Room Renovation	Report Page:	Page 3 of 8
Project Address: 1402 Royal Ave	Date Prepared:	3/27/2020

G. TRACK LIGHTING

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §130.1(e)	Shut-off Controls §130.1(c)	Field Inspector: Pass	Field Inspector: Fail
Not Required < 10,000 SF	See Area Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector: Pass	Field Inspector: Fail
Boys Lockers 409 / Entry 410	Locker/Dressing Room	Annunciated *	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
Boys Teams Lockers 423	Locker/Dressing Room	Annunciated *	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
VolleyBall Team Lockers	Locker/Dressing Room	Annunciated *	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
BasketBall Team Lockers	Locker/Dressing Room	Annunciated *	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
Staff Lockers 412	Locker/Dressing Room	Manual ON/OF	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
BasketBall Team Room	Classroom, Lecture, Training	Annunciated *	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
Showers	Locker/Dressing Room	Annunciated *	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
Staff Lockers 413	Locker/Dressing Room	Manual ON/OF	Exempt *	Occ Sensor	N/A	N/A	☐	☐	☐
Staff Shower 414	Locker/Dressing Room	Manual ON/OF	Exempt *	Occ Sensor	N/A	N/A	☐	☐	☐
Staff Toilet 415	Corridor/Restroom/Support	Manual ON/OF	Exempt *	Occ Sensor	N/A	N/A	☐	☐	☐
Passage 420 / Entry 419	Corridor/Restroom/Support	Annunciated *	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
Aquatics Office 416	Office <= 250 sqft	Manual ON/OF	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
FootBall Office 422	Office > 250 sqft	Annunciated *	Dimmer	Occ Sensor	N/A	N/A	☐	☐	☐
Mechanical Room 421	Electrical, Mechanical Room	Manual ON/OF	Exempt *	Occ Sensor	N/A	N/A	☐	☐	☐

Table Continued

Indoor Lighting

NRCC-LTI-E (Created 7/18) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Royal HS Boys Locker Room Renovation	Report Page:	Page 4 of 8
Project Address: 1402 Royal Ave	Date Prepared:	3/27/2020

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector: Pass	Field Inspector: Fail

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.	13
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2	Plan Sheet Showing Daylit Zones: N/A
Boys Lockers 409 / Entry 410: Annunciated Dimmers located in Staff Rm.	
Boys Teams Lockers 423: Annunciated Dimmers located in Staff Rm.	
VolleyBall Team Lockers: Annunciated Dimmers located in Staff Rm.	
BasketBall Team Lockers: Annunciated Dimmers located in Staff Rm.	
BasketBall Team Room: Annunciated Dimmers located in Staff Rm.	
Showers: Annunciated Dimmers located in Staff Rm.	
Staff Lockers 413: 1 Fixture, <100sf	
Staff Shower 414: 1 Fixture, <100sf	
Staff Toilet 415: 1 Fixture, <100sf	
Passage 420 / Entry 419: Annunciated Dimmers located in Staff Rm.	
FootBall Office 422: Annunciated Dimmers located in Staff Rm.	
Mechanical Room 421 <0.5 w/sf	

Reset | Add Row | Remove Last

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

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate 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/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustments: Footnotes	PAF	Portable Ltg
Locker Rooms	Locker/Dressing Room	0.7	4,748	3,323.6	☐	☐	☐

Table Continued

J & S Consulting Engineers, Inc.
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Tel:: (818) 841-0303 Fax: (818) 841-8531
470 Helga Ct., Suite 100, Newbury Park, Ca. 91320
Tel.:(818) 841-0303 Fax: (818) 841-8531
E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48361

REGISTERED PROFESSIONAL ENGINEER IGOR SHNAYDER No. E11075 EXPIRES 06-30-21 ELECTRICAL STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.

LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVIEWS		
REVISIONS	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN S.L.
		CHECK: N.J.
		JOB NO: 19-SVUSD-031

ELECTRICAL TITLE 24 FORMS

E2.01
___ OF ___

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 6 OF 7 - Electrical

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Royal HS Boys Locker Room Renovation	Report Page:	Page 5 of 8
Project Address: 1402 Royal Ave	Date Prepared:	3/27/2020

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 Allowances / Adjustments		
					Footnotes	PAF	Portable Ltg
Shower Rooms	Locker/Dressing Room	0.7	439	307.3	☐	☐	☐
Corridors/Storage/Custodial	Corridor, Restrm, Stair, Support	0.6	594	356.4	☐	☐	☐
Restrooms	Corridor, Restrm, Stair, Support	0.6	69	41.4	☐	☐	☐
Lobbies	Main Entry Lobby	0.95	255	242.25	☐	☐	☐
Offices	Office (> 250 square feet)	0.75	839	629.25	☐	☐	☐
Meeting Room	Convention, Conf., Meeting	1.2	529	634.8	☐	☐	☐
Mechanical Room	Elec, Mech, Telephone	0.55	363	199.65	☐	☐	☐
		TOTAL:	**7,836**	**5,734.65**	See Tables J, K, R for detail		
					Reset	Add Row	Remove Last

J. POWER ADJUSTMENT: PORTABLE LIGHTING IN OFFICES

This Section Does Not Apply

K. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD FOOTNOTES

This Section Does Not Apply

L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Royal HS Boys Locker Room Renovation	Report Page:	Page 6 of 8
Project Address: 1402 Royal Ave	Date Prepared:	3/27/2020

Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)

This Section Does Not Apply

S. RATED POWER REDUCTION COMPLIANCE BY SPACE

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Royal HS Boys Locker Room Renovation	Report Page:	Page 7 of 8
Project Address: 1402 Royal Ave	Date Prepared:	3/27/2020

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Royal HS Boys Locker Room Renovation	Report Page:	Page 8 of 8
Project Address: 1402 Royal Ave	Date Prepared:	3/27/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name:	Igor Shnaider, PE	Documentation Author Signature:	
Company:	J & S Consulting Engineers	Signature Date:	03/27/2020
Address:	3111 Winona Avenue, Suie 102	CEA/ HERS Certification Identification (if applicable):	E-11075
City/State/Zip:	Burbank, CA 91504	Phone:	818-841-0303

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:	Igor Shnaider	Responsible Designer Signature:	
Company :	J&S Consulting Engineers	Date Signed:	03/27/2020
Address:	3111 Winona Ave., Ste.102	License:	Electrical Engineer
City/State/Zip:	Burbank, CA 91504	Phone:	(818) 841-0303

J & S CONSULTING ENGINEERS, INC.
ELECTRICAL ▪ MECHANICAL ▪ FIRE PROTECTION
303 North Glenoaks Blvd., Suite 200, Burbank, Ca 91502
Tel:: (818) 841-0303 Fax: (818) 841-8531
470 Helga Ct., Suite 100, Newbury Park, Ca. 91320
Tel.:(818) 841-0303 Fax: (818) 841-8531
E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48361

REGISTERED PROFESSIONAL ENGINEER
IGOR SHNAYDER
No. E11075
EXPIRES 06-30-21
ELECTRICAL
STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

NOTE: THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS AND SPECIFICATIONS ADDRESSING ALL TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BIDDERS WITH A FULL SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL REVIEW THE ENTIRE SET OF DOCUMENTS. IF THERE IS A CONFLICT BETWEEN DISCIPLINES, THE MOST EXPENSIVE OPTION SHALL BE BID.

REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: N.J.
		JOB NO: 19-SVUSD-031

ELECTRICAL
TITLE 24 FORMS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

E2.02

___ OF ___

07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 8 OF 8

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-120727 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020

GENERAL NOTES:

1. CONSULT WITH THE OAR AND/OR IOR BEFORE STARTING WORK.
2. NOT USED.
3. ALL FIRE ALARM EQUIPMENT SHALL BE BRACED OR ANCHORED FOR SEISMIC RESTRAINT AS SHOWN ON DRAWINGS.
4. WHERE EXISTING STRUCTURAL WALLS OR FLOORS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THE GREATER OF 3 TIMES OPENING DIAMETER OR THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT/ENGINEER AND THE DSA FIELD ENGINEER. CONTRACTOR SHALL PROVIDE THE SERVICES OF AN INDEPENDENT TESTING LAB TO LOCATE STRUCTURAL REINFORCING MEMBERS PRIOR TO CORING HOLES THROUGH WALLS, BEAMS, FLOORS, ETC. IN ADDITION, ALL CORED SURFACES SHALL BE VERIFIED FOR PRESENCE OF ANY HAZARDOUS MATERIALS, SUCH AS ASBESTOS OR LEAD.
5. IT IS THE INTENT OF THESE DRAWINGS THAT THIS BE A COMPLETE FIRE ALARM JOB. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING THE JOB.
6. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, EQUIPMENT AND MATERIALS APPROVED FOR USE IN THIS CONTRACT.
7. ALL EXPOSED RACEWAYS AND JUNCTION BOXES WITHIN FINISHED BUILDING SPACES SHALL BE WIREMOLD, UNLESS SPECIFICALLY SHOWN OTHERWISE. ALL EXPOSED DEVICE BACK BOXES WITHIN FINISHED BUILDING SPACES SHALL BE EITHER WIREMOLD OR FACTORY SUPPLIED BACK BOXES SUITABLE FOR SURFACE MOUNTING.
8. ALL FIRE ALARM EQUIPMENT, DEVICES, J. BOXES, RACEWAYS, ETC. EXPOSED TO WEATHER SHALL BE WEATHERPROOF.
9. ALL RACEWAYS, INCLUDING CONDUITS, WIREMOLDS, ETC., SHALL BE SIZED PER N.E.C. FOR THE NUMBER AND SIZE OF CONDUCTORS ENCLOSED IN A RACEWAY, U.N.O. (SEE "RACEWAY AND WIRE SCHEDULE" THIS SHEET).
10. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS AND CEILINGS SHALL BE SEALED WITH U.L. APPROVED FIRESTOP SYSTEMS BY A QUALIFIED INSTALLER AS SPECIFIED IN SECTION 07840, AND AS REQUIRED FOR WALL/FLOOR FIRE RATING AND THE TYPE OF CONSTRUCTION, EXCEPT FIRESTOP SYSTEMS SHALL HAVE A MINIMUM FIRE RATING OF 1 HOUR FOR WALLS AND 3 HOURS FOR FLOORS. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL FIRESTOPPING SYSTEMS OF FIRE-RATED PENETRATIONS.
11. IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.
12. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE AND EXTENT OF THE WORK TO BE DONE, TAKING INTO ACCOUNT ANY SPECIAL OR UNUSUAL FEATURES PECULIAR TO THIS JOB.
13. THE CONTRACTOR SHALL EXAMINE ALL CONTRACT PLANS AND EXISTING FIELD CONDITIONS IN ORDER TO LOGICALLY LOCATE WORK IN ACCORDANCE WITH EXISTING CABINETS, BEAMS, FURRING, DOOR SWINGS, DUCTS, PIPES AND CEILINGS. THE INSTALLATION OF EQUIPMENT, DEVICES, PULL BOXES, CONDUITS, ETC. UNDER THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE ADA REQUIREMENTS. SPECIFICALLY, NEW EQUIPMENT OR DEVICES SHALL BE INSTALLED WITH THE BOTTOM AT 80"A.F.F. OR HIGHER, OR 27"A.F.F. OR LOWER. WHERE NEW EQUIPMENT OR DEVICES ARE INSTALLED BETWEEN 80" A.F.F. AND 27"A.F.F., THEY SHALL NOT OBSTRUCT THE PASSAGE WAY OR BECOME A SAFETY HAZARD. CONSULT THE ARCHITECT/ENGINEER AND/OR INSPECTOR FOR AN ALTERNATE LOCATION IF REQUIRED.
14. ALL INTERIOR AND EXTERIOR FIRE ALARM DEVICES SHOWN ON PLANS SHALL BE MOUNTED PER SPECIFICATIONS.
15. PROVIDE PROTECTIVE COVERS FOR FIRE ALARM DEVICES, PROVIDED UNDER THIS PROJECT,AS FOLLOWS:
    a. STROBES, HORNS, STROBE/HORN COMBINATIONS AND SMOKE (OR BEAM SMOKE) DETECTORS LOCATED IN CORRIDORS, STUDENT TOILETS, MULTI-PURPOSE BUILDINGS, GYMNASIUMS, INCLUDING BOYS LOCKER ROOMS AND SHOWERS, AUDITORIUMS, AND ALL OTHER AREAS THAT MAY BE SUBJECTED TO VANDALISM.
16. REFER TO VARIOUS SPECIFICATIONS FOR EXPOSED RACEWAYS, PULL BOXES, TERMINAL CABINETS, POWER SUPPLIES, HARDWARE AND OTHER TYPES OF FIRE ALARM EQUIPMENT THAT SHALL BE PAINTED TO MATCH THE SURFACES WHERE INSTALLED.
17. ALL FIRE ALARM MATERIALS, EQUIPMENT, DEVICES, BOXES, CONDUIT, WIRE, CABLE, ETC. USED ON THIS PROJECT SHALL BE NEW, UNLESS NOTED OTHERWISE.
18. ALL USABLE EXISTING FIRE ALARM COMPONENTS REMOVED FROM THIS PROJECT SHALL BE SALVAGED BY CONTRACTOR AND RETURNED TO LOCAL MAINTENANCE AND OPERATIONS AREAS. CONTRACTOR SHALL ALL EXISTING ELECTRICAL AND FIRE ALARM EQUIPMENT, DEVICES, BOXES, CONDUIT, WIRING, ETC., NOT SHOWN TO BE ALTERED, REMOVED OR REPLACED, SHALL REMAIN AS IS AND IS SHOWN FOR REFERENCE ONLY.
19. RACEWAY INSTALLATION REQUIREMENTS:

    IN ADDITION TO SPECIFICATION REQUIREMENTS FOR TYPES OF RACEWAY IN VARIOUS AREAS (I.E. EXPOSED WIREMOLD IN FINISHED AREAS, EXPOSED RIGID STEEL CONDUIT ON BUILDING'S EXTERIOR, CONCEALED EMT CONDUIT OR FLEX ABOVE DROPPED CEILINGS, IN ATTICS OR CRAWL SPACES, ETC.), THE FOLLOWING SHALL BE OBSERVED:

    a. TYPES OF RACEWAY RUNS IN VARIOUS BUILDINGS AND/OR AREAS OF THE SAME BUILDING, SHOWN ON PLANS BY EITHER CONCEALED OR EXPOSED RACEWAY SYMBOLS, HAVE BEEN BASED ON THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED, AS FOLLOWS:
        1. AS-BUILT ARCHITECTURAL AND/OR ELECTRICAL DRAWINGS.
        2. INTERVIEWS WITH LOCAL FACILITY PERSONNEL, BASED ON RECENTLY COMPLETED PROJECTS, IF ANY.
        3. PHYSICAL FIELD OBSERVATIONS OF POTENTIAL ACCESSIBILITY OF CEILING, ATTIC AND CRAWL SPACES (THESE, HOWEVER, HAVE BEEN LIMITED DUE TO UNAVAILABILITY OF THE ASBESTOS REPORT(S) AT THE TIME OF DESIGN).

        THE ABOVE INFORMATION IS PROVIDED AS A GENERAL GUIDELINE ONLY AND IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION, AND ADJUST RACEWAY ROUTING, AS REQUIRED, BASED ON CONSIDERATIONS OUTLINED BELOW, AND AT NO ADDITIONAL COST TO THE DISTRICT.
    b. EXPOSED RACEWAYS SHALL BE INSTALLED IN THE FOLLOWING ORDER OF PREFERENCE, WHERE POSSIBLE:
        1. EXPOSED INSIDE BUILDINGS.
        2. EXPOSED ON BUILDING EXTERIORS.
    c. RACEWAY RUNS INTENDED TO BE RUN CONCEALED (CONDUIT), AND SHOWN BY CONCEALED SYMBOL, WILL STILL HAVE A SMALL PORTION OF THE RUN TO BE RUN EXPOSED (WIREMOLD) FROM THE DEVICE LOCATION TO THE POINT OF CONCEALING (THESE RACEWAY RUNS ARE SIZED ON PLANS FOR BOTH THE CONDUIT AND THE WIREMOLD PORTIONS OF THE RUN, I.E. 1"C/WM2400).
20. IN ADDITION TO SURFACE METAL RACEWAY INSTALLATION DETAILS AND OTHER INSTALLATION REQUIREMENTS SHOWN ON DRAWINGS AND IN SPECIFICATIONS, THE FOLLOWING SHALL BE OBSERVED AND COMPLIED WITH DURING INSTALLATION OF SURFACE METAL RACEWAYS IN OCCUPIED SPACES:
    a. WHERE TRANSITIONS ARE MADE FROM ONE TYPE OF WIREMOLD TO ANOTHER, OR FROM WIREMOLD TO CONDUIT, THE CONTRACTOR SHALL USE ALL REQUIRED TRANSITION OR TERMINATION FITTINGS (SUCH AS TAP BOXES, ELBOWS, COUPLINGS, REDUCERS, CONNECTORS, BUSHINGS, MOUNTING STRAPS, ETC.) AS RECOMMENDED BY MANUFACTURER, AS SPECIFIED AND AS REQUIRED BY CODE.
    b. THE CONTRACTOR, AS INDICATED ELSEWHERE ON DRAWINGS AND SPECIFICATIONS, SHALL VISIT THE ENTIRE SITE PRIOR TO BIDDING TO GET FAMILIARIZE WITH ALL OBSTRUCTIONS, INCLUDING FIXED EQUIPMENT, APPLIANCES, FIXTURES, ETC., FOR RUNNING SURFACE RACEWAYS, AND SHALL ALLOW IN HIS/HER BID SUFFICIENT LENGTH OF ALL TYPES OF WIREMOLD TO MAKE OFFSETS AROUND ALL OBSTRUCTIONS, REGARDLESS IF SHOWN ON PLANS OR NOT.
21. WIRING INSTALLATION REQUIREMENTS:
    a. ALL WIRING, INCLUDING ELECTRICAL CONDUCTORS AND FIRE ALARM CABLES USED ON THIS PROJECT, REGARDLESS IF CONCEALED IN WALLS, CEILINGS, ATTICS, CRAWL SPACES, ETC. OR RUN EXPOSED, SHALL BE INSTALLED IN RACEWAYS. USE OF OPEN WIRING OF ANY KIND AND IN ANY LOCATION IS PROHIBITED – NO EXCEPTIONS.
    b. ALL FIRE ALARM SYSTEM RACEWAYS AND PULL BOXES SHALL BE DEDICATED TO FIRE ALARM WIRING ONLY, AND SHALL NOT BE USED FOR ANY OTHER WIRING. WHERE IT IS NOT POSSIBLE TO PROVIDE DEDICATED UNDERGROUND OR ABOVEGROUND PULL BOXES, OTHER SIGNAL, BUT NOT POWER, PULL BOXES MAY BE USED, HOWEVER, MEANS OF PHYSICAL AND ELECTRICAL SEPARATION OF FIRE ALARM WIRING FROM ALL OTHER WIRING SHALL BE PROVIDED.
22. HEAT DETECTORS INSTALLED ABOVE SUSPENDED CEILINGS SHALL HAVE THEIR LOCATIONS MARKED BELOW THE CEILING AND BE EASILY ACCESSIBLE.
23. THE CONTRACTOR IS RESPONSIBLE TO LOCATE EXISTING BUILDING EXPANSION JOINTS, AND TO PROVIDE SLIDING AND DEFLECTING FITTINGS, AS SPECIFIED, IN EACH CONDUIT INSTALLED UNDER THIS PROJECT WHICH IS CROSSING THESE JOINTS.
24. CONTRACTOR TO DEVELOP HIS OWN SHOP DRAWINGS. THE ARCHITECT/ENGINEER WILL PROVIDE ELECTRONIC FILES FOR BACKGROUNDS ONLY.
25. THE ENTIRE FIRE ALARM WORK, INSTALLED UNDER THIS PROJECT, SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF C.F.C., ARTICLE 87.
26. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CCD APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
27. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTIONS OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
28. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE(S) OR ANY RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCING ANY WORK.

SCOPE OF WORK

1. PORTION OF EXISTING AUTOMATIC FIRE ALARM SYSTEM, PROVIDED UNDER DSA APPL. #03-107180, TO BE TEMPORARILY DISCONNECTED AND SLIGHTLY MODIFIED PER THIS RENOVATION PROJECT IN THIS PART OF THIS BUILDING ONLY. MOST EXISTING DEVICES TO BE RE-INSTALLED (PROVIDE CORRESPONDING BACKBOX FOR EACH EXISTING RE-INSTALLED DEVICE).

   EXISTING DEVICES TO BE DELETED FROM SYSTEM:
   (10) HEAT DETECTORS.
   (2) 75cd STROBES.

   ADDITIONAL DEVICES TO BE INSTALLED:
   (3) SMOKE DETECTORS,
   (1) COMBINATION SMOKE/CO DETECTOR,
   (1) LINEAR HEAT DETECTORS,
   (3) RELAY MODULES,
   (1) MONITOR MODULE,
   (4) 30cd STROBES.
   (7) 15cd HORN/STROBES.
   (4) 30cd HORN/STROBES.
2. PER PROVISIONS OF CFC CHAPTER 33 "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" (CFC 901.7, DSA IR F-2), CONTRACTOR TO PROVIDE FIRE WATCH FOR THE BUILDING, OR PORTION OF THE BUILDING, DURING IMPAIRMENT OF THE EXISTING FIRE ALARM SYSTEM. FIREWATCH SHALL CONTINUE UNTIL FIRE ALARM SYSTEM IS FULLY RESTORED.
3. PRIOR TO CLOSE OUT OF THE PROJECT, THE FOLLOWING NFPA 72 FORMS SHALL BE COMPLETED AND SUBMITTED TO THE SIMI VALLEY UNIFIED SCHOOL DISTRICT:
   A. FIRE ALARM SYSTEM RECORD OF COMPLETION.
   B. FIRE ALARM SYSTEM RECORD OF INSPECTION AND TESTING.

APPLICABLE CODES

LIST OF 2019 CALIFORNIA CODE OF REGULATIONS (C.C.R.):
APPLICABLE CODES AS OF JANUARY 1, 2020

PART 1- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2- 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

PART 3- 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

PART 4- 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

PART 5- 2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)

PART 6- 2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 7- CURRENTLY VACANT

PART 8- 2019 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

PART 9- 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

PART 10- 2019 CALIFORNIA EXISTING BUILDING CODE (2018 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)

PART 11- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.

PART 12- 2019 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAP. 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17a	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2016 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

DEPARTMENT OF JUSTICE REGULATIONS FOR TITLE II OF THE AMERICANS WITH DISABILITIES ACT OF 1990 WITH REVISED REGULATIONS AS PUBLISHED IN THE FEDERAL REGISTER ON SEPTEMBER 15, 2010, EFFECTIVE MARCH 15, 2012. TITLED ADA STANDARDS FOR ACCESSIBLE DESIGN.

F.A. SYSTEM WIRE SCHEDULE

TAG	CONDUCTORS	DEVICE/FUNCTION
A	2#14, THWN/THHN	AUDIBLE NOTIFICATION DEVICES– HORNS, MINI-HORNS
V	2#12, THWN/THHN	VISIBLE NOTIFICATION DEVICES– STROBE LIGHTS
Z	1-PAIR #16 TWISTED, WEST PENN AQ225 (BLDG. EXTERIOR & UNDERGROUND) 1-PAIR #16 TWISTED, WEST PENN D990 (BLDG. INTERIOR)	CAMPUS/BLDG. SLC INTELLIGENT LOOP– INITIATING DEVICES (PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, WATER FLOW AND TAMPER SWITCHES, MONITOR AND CONTROL MODULES, ETC.)

STANDARD SYMBOL LIST

- F.A. SYSTEM END-OF-LINE RESISTOR
- JUNCTION BOX IN ACCESSIBLE CEILING, ATTIC OR CRAWL SPACE AS NOTED
- JUNCTION BOX, CEILING MOUNTED
- JUNCTION BOX, WALL MOUNTED
- F.A. DEVICES IN ACCESSIBLE CEILING, ATTIC OR CRAWL SPACE AS NOTED
- F.A. DEVICES, CEILING OR WALL MOUNTED
- COMBINATION FIRE/SMOKE DAMPER
- PANELBOARD OR LOAD CENTER
- TRANSFORMER
- CONDUIT CONCEALED IN WALL OR CEILING (SIZED FOR ENCLOSED WIRING PER "RACEWAY AND WIRE SCHEDULE" ON THIS SHEET)
- CONDUIT BELOW FLOOR OR GRADE, OR IN SLAB (SIZED FOR ENCLOSED WIRING PER "RACEWAY AND WIRE SCHEDULE" ON THIS SHEET)
- RACEWAY EXPOSED: WIREMOLD IN FINISHED AREAS, CONDUIT IN UNFINISHED AREAS AND ON BUILDING EXTERIOR (SIZED FOR ENCLOSED WIRING PER "RACEWAY AND WIRE SCHEDULE" ON THIS SHEET)
- CONDUIT TURNED UP OR DOWN
- (A-42) DENOTES 1/2"C, 2#12 & 1#12 GND HOMERUN TO PANELBOARD "A", CIRCUIT #42
- (FATC) F.A. SYSTEM CIRCUIT HOMERUN TO TERMINAL CABINET
- (1A2,1V2 — 1 AUDIBLE LOOP NO.2 (TOTAL OF 2#14 CONDUCTORS); 1 VISUAL LOOP NO.2 (TOTAL OF 4#12 CONDUCTORS)) F.A. SYSTEM WIRING, TAG IDENTIFIES THE FOLLOWING: FIRST NUMBER INDICATES QUANTITY OF LOOPS OR CIRCUITS; LETTER NOTATION INDICATES TYPE OF LOOP OR CIRCUIT, INCLUDING CONDUCTOR REQUIREMENTS, PER "F.A. SYSTEM WIRE SCHEDULE" ON THIS SHEET; NUMBER AFTER LETTER INDICATES LOOP NUMBER PER "CIRCUIT LEGEND" SCHEDULE AND RISER DIAGRAM ON SHEET FA3.01
- (AUDIBLE LOOP NO.1 — A1; VISUAL LOOP NO.1 — V1; 15cd; DEVICE I.D. NO. — #1, #2; INTELLIGENT LOOP NO. / INTELLIGENT SUB-LOOP NO. — Z1/1) DENOTES F.A. DEVICE CONNECTED TO NOTIFICATION, INTELLIGENT OR POWER LOOP CIRCUITS AND CONSECUTIVE DEVICE I.D. NO. FOR THIS LOOP (LOOP/SUB-LOOP/DEVICE I.D. NO. PER RISER DIAGRAM AND "CIRCUIT LEGEND" SCHEDULE ON SHEET FA3.01)
- CEILING ACCESS PANEL
- NOTE TAG

STANDARD ABBREVIATIONS

A/C	AIR CONDITIONING	F.A.	FIRE ALARM
A.F.F.	ABOVE FINISH FLOOR	IOR	INSPECTOR OF RECORD
A.F.S.	AUTOMATIC FIRE SPRINKLER	J. BOX	JUNCTION BOX
A OR AMP	AMPERES	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	(N)	NEW
		N/A	NOT APPLICABLE
BKR.	BREAKER	OAR	OWNER AUTHORIZED REPRESENTATIVE
B.C.	BARE COPPER	SA	SUPPLY AIR
C	CONDUIT	SW.	SWITCH
CKT.	CIRCUIT	RA	RETURN AIR
C.O.	CONDUIT ONLY	TYP.	TYPICAL
EXIST. OR (E)	EXISTING	U.N.O.	UNLESS NOTED OTHERWISE
F.L.A.	FULL LOAD AMPERES	V.L.	VERIFY LOCATION
G.F.I.	GROUND FAULT INTERRUPTER	WM	WIREMOLD
GND	GROUND	W.P.	WEATHERPROOF

REMOTE FACP F.A. SEQUENCE OF OPERATION

ACTION \ DEVICE	MANUAL PULL STATION	ALARM AT MAIN FACP	AREA SMOKE/BEAM/HEAT DETECTOR	KITCHEN FIRE SUPPRESSION SYSTEM (N/A)	ELEV. LOBBY, ELEV. SHAFT & ELEV. MACHINE ROOM SMOKE DETECTOR (N/A)	SPRINKLER WATER FLOW SWITCH	SPRINKLER TAMPER SWITCH	SITE P.I.V. TAMPER SWITCH	120VAC POWER FAILURE AT FACP OR FAPS
ANNUNCIATE AT ALL FACP's AND AT REMOTE ANNUNCIATOR	YES	YES	YES	YES	YES	YES	YES*	YES*	YES*
ANNUNCIATE AT CENTRAL STATION (VIA MAIN FACP)	YES	YES	YES	YES	YES	YES	YES*	YES*	YES*
ACTIVATE AUDIO/VISUALS	YES	YES	YES	YES	YES	YES	NO	NO	NO
ACTIVATE SPRINKLER BELL	NO	NO	NO	NO	NO	YES	NO	NO	NO
N/A — RECALL ELEVATORS	NO	NO	NO	NO	YES	NO	NO	NO	NO
HVAC UNIT SHUT DOWN	NO	NO	YES	NO	NO	NO	NO	NO	NO
N/A — SMOKE/FIRE DAMPER SHUT DOWN	NO	NO	YES	NO	NO	NO	NO	NO	NO
N/A — AUDITORIUM SOUND SYSTEM SHUT DOWN	YES	YES	YES	YES	YES	YES	NO	NO	NO
N/A — PROGRAM/CLASS CHANGING TONE OVER P.A. SYSTEM SHUT DOWN	YES	YES	YES	YES	YES	YES	NO	NO	NO

NOTE: IF DEVICE/ACTION FUNCTION DOES NOT APPLY TO THIS PROJECT, IT IS INDICATED AS "N/A" (NOT APPLICABLE).
* AS SUPERVISORY ONLY.

RACEWAY AND WIRE SCHEDULE

RACEWAYS: CONDUIT	RACEWAYS: WIREMOLD	THWN/THHN WIRES #14 AWG	THWN/THHN WIRES #12 AWG	THWN/THHN WIRES #10 AWG	INTELLIGENT LOOP/NETWORK LOOP INDOOR WP D990 (.223" O.D.)	INDOOR WP D980 (.182" O.D.)	OUTDOOR/UG WP AQ225 (.295" O.D.)	OUTDOOR/UG WP AQ224 (.270" O.D.)
1/2"	–	12	9	5	3	4	2	2
–	WM700	10	9	5	2	3	1	1
3/4"	–	22	16	10	5	8	3	4
1"	–	35	26	16	8	12	5	6
–	WM2400	57	41	26	16	24	10	12
1 1/4"	–	61	45	28	14	22	8	10
1 1/2"	–	84	61	38	20	30	11	14
2"	–	135	99	62	24	51	19	23
2 1/2"	–	193	141	89	48	72	27	33
3"	–	299	218	137	74	111	42	50

NOTES:
1. DO NOT EXCEED NUMBER OF WIRES AND CABLES SHOWN IN SCHEDULE FOR EACH TYPE OF RACEWAY, WHICH HAVE BEEN SIZED AS FOLLOWS:
   a. CONDUITS – FOR 40% FILL MAXIMUM.
   b. WIREMOLDS – FOR 40% FILL MAXIMUM.
2. WHERE WIRES AND/OR CABLES OF DIFFERENT SIZES ARE RUN IN THE SAME RACEWAY– ADJUST QUANTITY BASED ON O.D. SHOWN IN SCHEDULE. MAINTAIN 40% FILL MAXIMUM IN CONDUITS AND WIREMOLDS.
3. DO NOT USE WIREMOLD SMALLER THAN WM700.
4. DO NOT USE WIREMOLD LARGER THAN WM2400 ON CEILINGS.
5. DO NOT USE WIREMOLD WM2100.

FIRE ALARM SYSTEM SYMBOL AND EQUIPMENT LIST

	SYMBOL	DESCRIPTION	MANUFACTURER	MODEL #	CSFM #
EXISTING EQUIPMENT & DEVICES TO REMAIN (PROVIDED UNDER DSA APPL. # 03-107180) CERTIFIED	FACP	FIRE ALARM CONTROL PANEL W/BUILT-IN UDACT	SILENT KNIGHT	IFP-1000	7165-0559:0135
	ANN	REMOTE DISPLAY ANNUNCIATOR	SILENT KNIGHT	IFP-1000	7165-0559:0135
	RPS	REMOTE INTELLIGENT DISTRIBUTED POWER MODULE	SILENT KNIGHT	RPS-1000	7165-0559:0135
	FATC	FIRE ALARM TERMINAL CABINET	N/A	N/A	N/A
	SD	PHOTOELECTRIC SMOKE DETECTOR & BASE	SILENT KNIGHT	IDP-PHOTO	7272-0559:0149
	HD	INTELLIGENT AUTOMATIC HEAT DETECTOR	SILENT KNIGHT	IDP-HEAT-HT	7270-0559:0147
	H W.P.	HORN (FOR OUTDOOR USE)	GENTEX	HG-124R	DISCONTINUED
	L 15cd 30cd 75cd	STROBE LIGHT (NUMBER INDICATES CANDELA)	GENTEX	GES3-24WR	7125-0569:0123
	H 75cd	COMBINATION HORN & STROBE LIGHT, 75 CANDELA	GENTEX	GEC3-24WR	7135-0569:0122
EQUIPMENT & DEVICES USED FOR THIS PROJECT	SD	MULTICRITERIA PHOTOELECTRIC SMOKE DETECTOR & BASE	SILENT KNIGHT	IDP-ACCLIMATE	7272-0559:0149
	SD CO	COMBINATION PHOTOELECTRIC SMOKE/CO DETECTOR & BASE	SILENT KNIGHT	IDP-FIRE-CO	7275-0559:0170
	HD	INTELLIGENT AUTOMATIC HEAT DETECTOR	SILENT KNIGHT	IDP-HEAT-HT	7270-0559:0147
	— LHD —	LINEAR HEAT DETECTOR (WITHOUT OR WITH MESSENGER CABLE)	PROTECTOWIRE	PHSC-190-EPR PHSC-190-EPR-M	7270-0854:0101
	R	ADDRESSABLE RELAY MODULE	SILENT KNIGHT	IDP-RELAY	7300-0559:0155
	M	ADDRESSABLE MONITOR MODULE	SILENT KNIGHT	IDP-MONITOR	7300-0559:0155
	H 15cd 30cd 75cd	COMBINATION HORN & STROBE LIGHT (cd = CANDELA)	GENTEX	GEC3-24WR	7135-0569:0122
	W.P. H 15cd 30cd 75cd	COMBINATION HORN & STROBE LIGHT (cd = CANDELA) WEATHERPROOF	GENTEX	WGEC24-75WR	7135-0569:0122
	L 15cd 30cd 75cd	STROBE LIGHT, WALL MTD. (NUMBER INDICATES CANDELA)	GENTEX	GES3-24WR	7125-0569:0123
	L 15cd 30cd 75cd	STROBE LIGHT, CEILING MTD. (NUMBER INDICATES CANDELA)	GENTEX	GCS-24CR	7125-0569:0123

Central Station Monitoring
Rapid Response Monitoring, Inc.
400 E. Rincon, #300
Corona, CA 92879
Tel: (888) 908-0050
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Acct # ZI900275

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E-Mail: jsmail@jandsconsulting.com
Web Site: www.jandsconsulting.com
PROJECT No. 48361

REGISTERED PROFESSIONAL ENGINEER — SHNAYDER — No. E11075 — EXPIRES 06-30-21 — ELECTRICAL — STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.

LICENSED ARCHITECT — JEAN ANN AMADOR — C-22205 — APRIL 30, 2021 RENEWAL DATE — STATE OF CALIFORNIA

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
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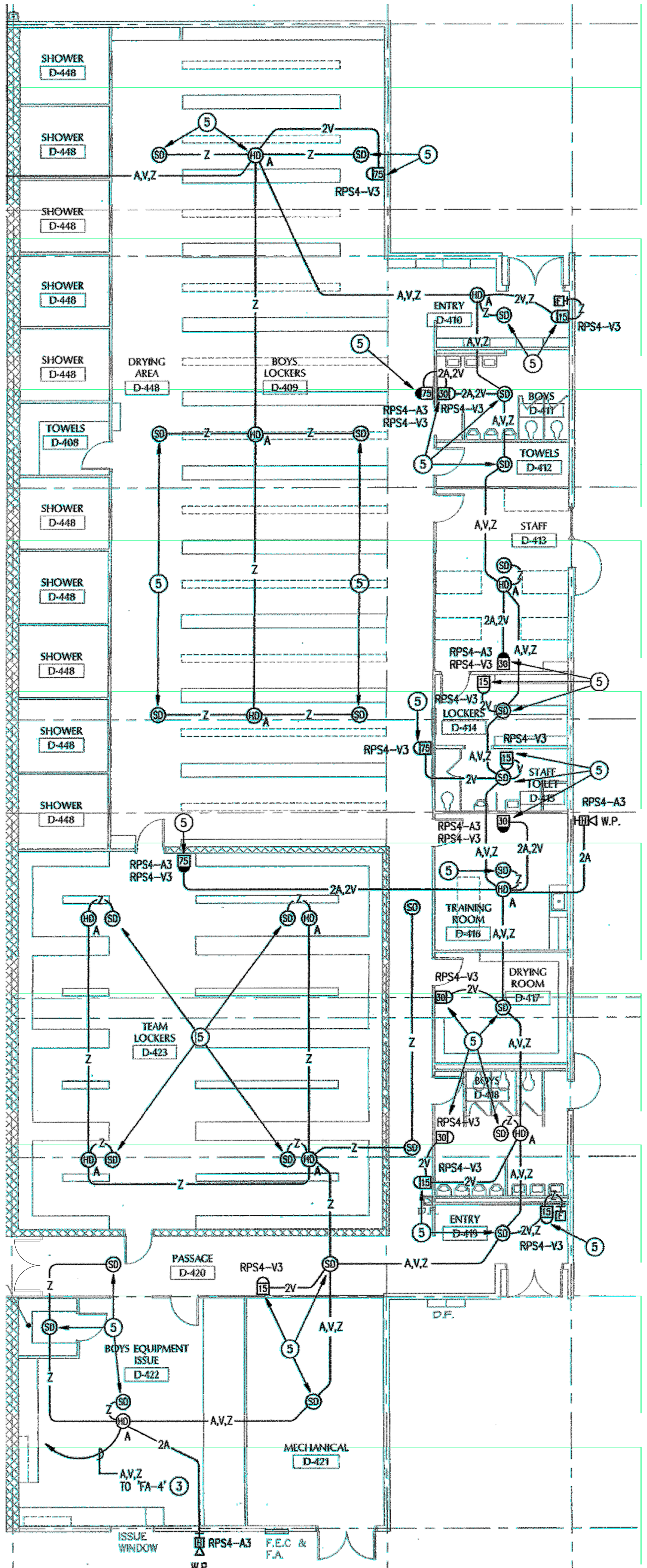
		JOB NO: 19-SVUSD-031

FIRE ALARM SYSTEM SCOPE OF WORK, GENERAL NOTES AND SCHEDULES

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

FA0.01
___ OF ___

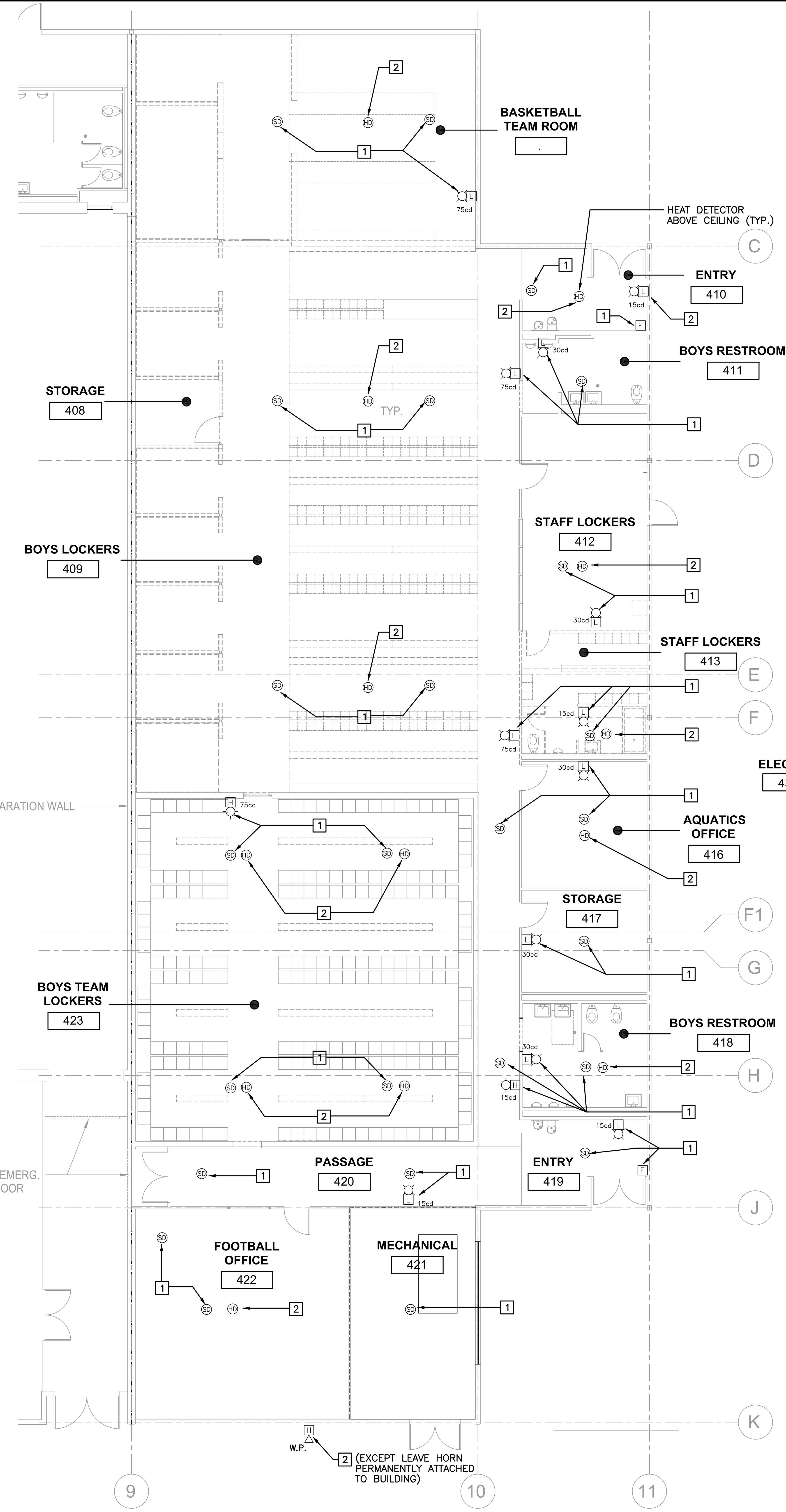


1 FIRE ALARM REFERENCE PLAN

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

REFERENCE NOTES:

1. 12"x18"x6"D. FIRE ALARM TERMINAL CABINET.
2. REMOTE AUDIBLE/VISUAL POWER SUPPLY.
3. VIA SYNC MODULE LOCATED IN "FA-4".
4. PROVIDE (2) SYNC MODULES IN "FA-4".
5. DEVICE SHALL BE EQUIPPED WITH PROTECTIVE WIRE CAGE.
6. 1/2"C.-2#16 SHIELDED SPEAKER CABLE.



2 FIRE ALARM DEMOLITION PLAN

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

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APP: 03-120727 INC:
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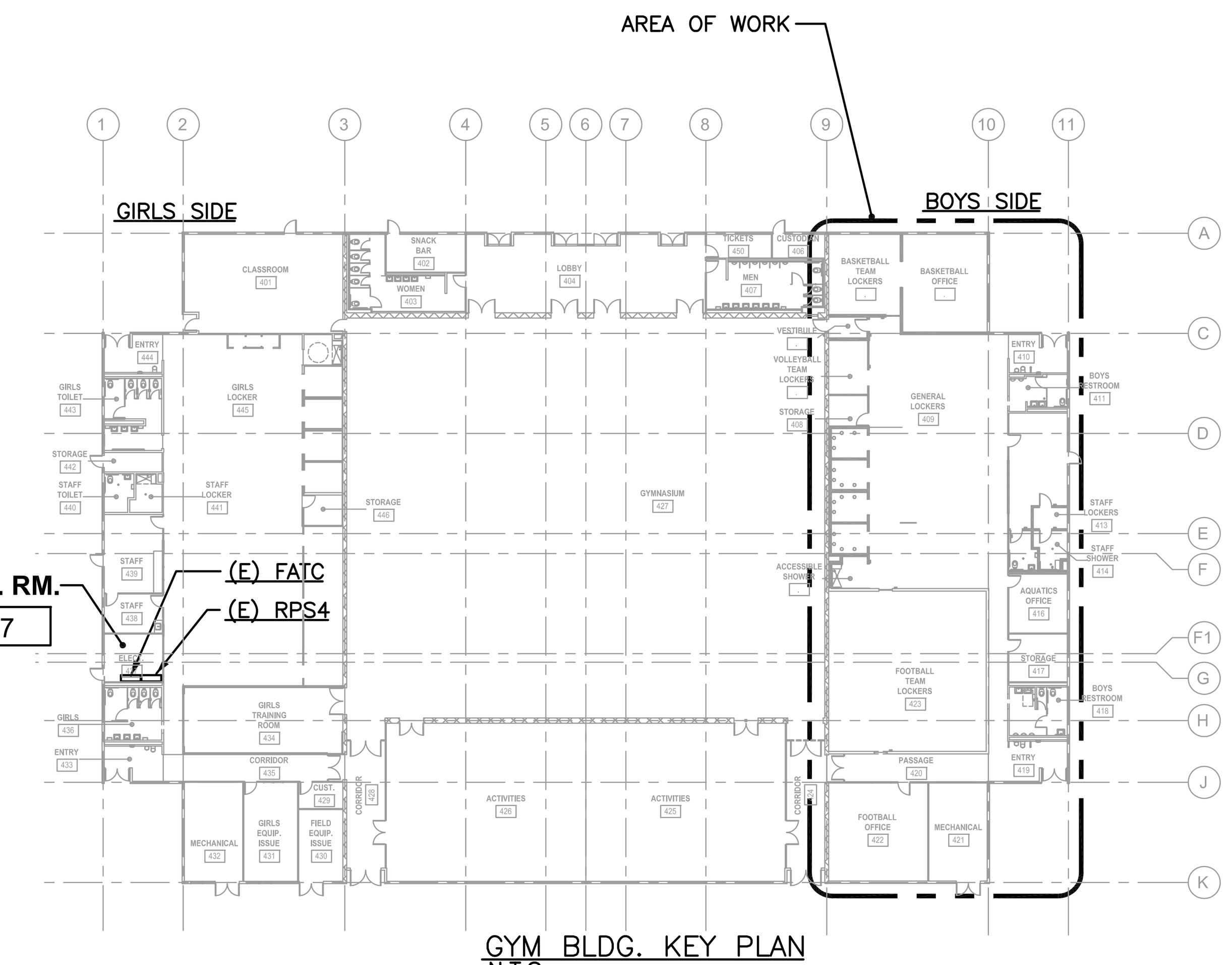
DATE: 10/12/2020

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE F.A. DEVICE AND BACKBOX. RETAIN F.A. DEVICE FOR RE-INSTALLATION (BACKBOX TO BE REPLACED). REMOVE ASSOCIATED CONDUIT AND CIRCUITING.. PROVIDE FIREWATCH FOR THIS BUILDING DURING IMPAIRMENT OF F.A. SYSTEM.
2. DISCONNECT AND REMOVE F.A. DEVICE AND BACKBOX. REMOVE ASSOCIATED CONDUIT AND CIRCUITING. SEE REFERENCE PLAN THIS SHEET.
3. EXISTING F.A. POWER SUPPLY AND TERMINAL CABINET IS LOCATED IN GIRLS SIDE ELECTRICAL ROOM 437.



GYM BLDG. KEY PLAN
N.T.S.

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PROJECT No. 48301

REGISTERED PROFESSIONAL ENGINEER
No. E11075
EXPIRES 06-30-21
ELECTRICAL
STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
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(805) 530-3938 , (818) 874-0071

LICENSED ARCHITECT
JEAN ANN AMADOR
C-22205
APRIL 30, 2021
RENEWAL DATE
STATE OF CALIFORNIA

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

REVISIONS		
	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
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FIRE ALARM DEMOLITION AND REFERENCE PLANS

FA1.01

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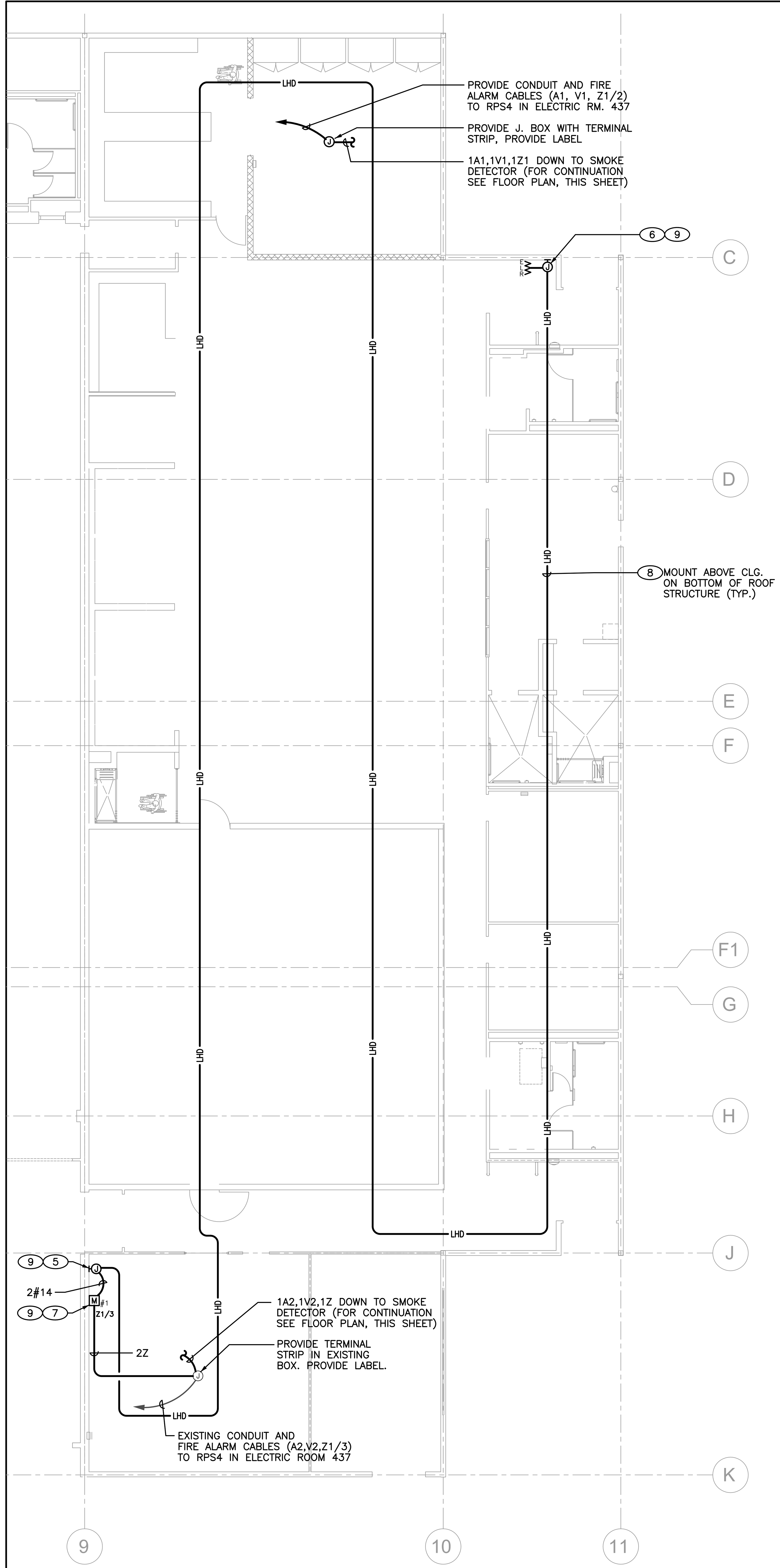
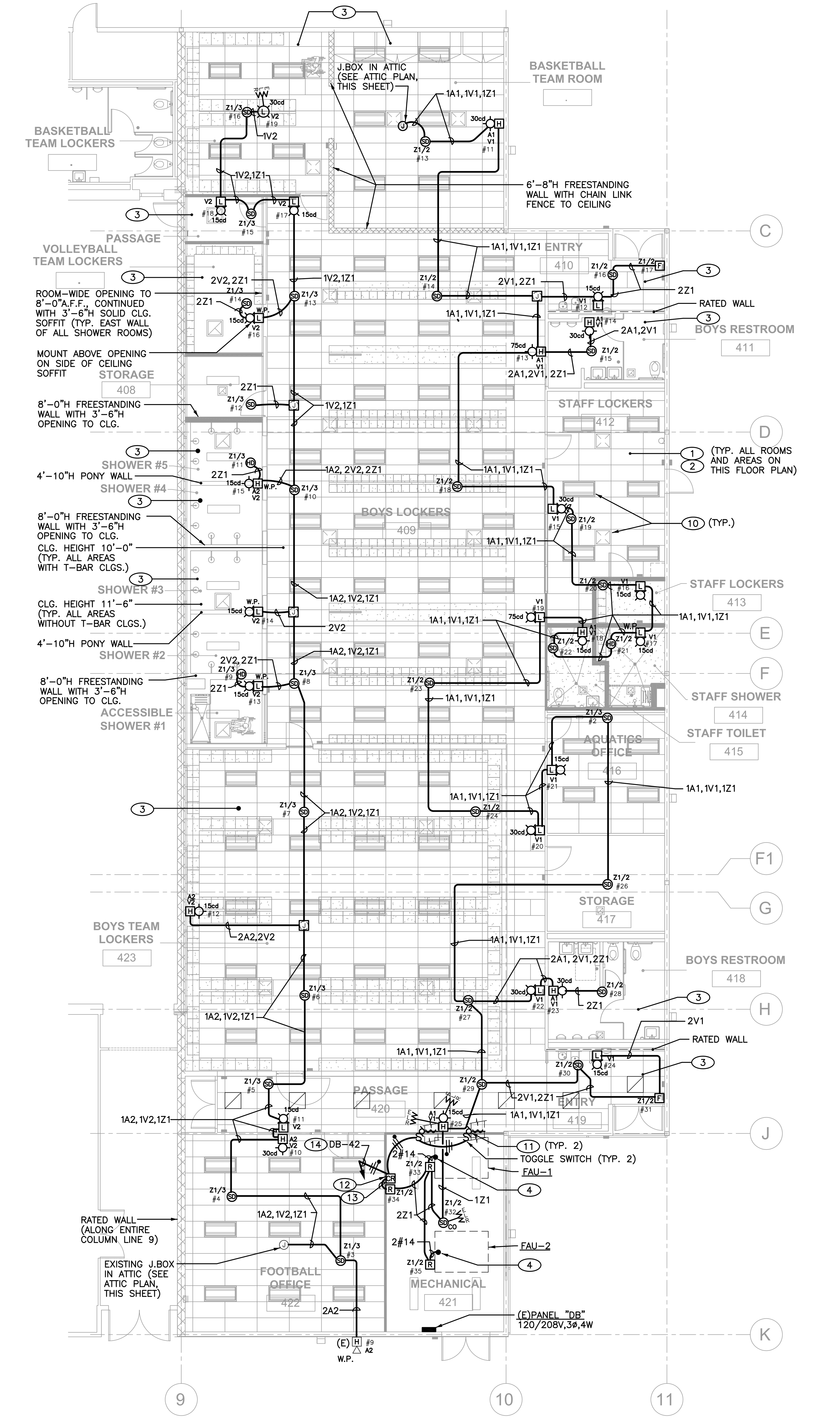
SHEET # 2 OF 6 - Fire Alarm



1 FIRE ALARM ATTIC PLAN

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



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

2 FIRE ALARM FLOOR PLAN

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

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APP: 03-120727 INC:
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GENERAL NOTE:

1. EXISTING FIRE ALARM DEVICES AND CIRCUITING ARE SHOWN IN LIGHT LINES. NEW WORK AND RE-INSTALLED DEVICES ARE SHOWN IN HEAVY LINES.

NOTES:

(1) REINSTALL EXISTING (U.O.N.) F.A. DEVICES (PROVIDE ASSOCIATED BACKBOXES AS REQUIRED). PROVIDE RACEWAY AND WIRING AS SHOWN AND CONNECT TO EXISTING F.A. SYSTEM.

(2) PROVIDE F.A. DEVICE TO MATCH EXISTING, OR COMPATIBLE WITH EXISTING SYSTEM.

(3) PROVIDE PROTECTIVE WIRE CAGES ON ALL STROBES, HORN/STROBES, AND SMOKE AND HEAT DETECTORS BELOW CEILING WITHIN THIS ROOM.

(4) CONNECT TO HVAC UNIT SHUT DOWN CIRCUITS. FOR TYPICAL A/C UNIT SHUT DOWN CONTROLS SEE DETAIL ON SHEET FA2.01.

(5) ZONE JUNCTION BOX WITH TERMINAL BLOCK INSIDE. "PROTECTOWIRE" # ZB-4-QC-MP. MOUNTED AS SHOWN. SEE DETAIL 3, SHEET FA2.01. REFER TO MANUFACTURER'S MANUAL FOR INSTALLATION INSTRUCTIONS.

(6) END-OF-LINE BOX WITH TERMINAL BLOCK INSIDE, "PROTECTOWIRE" # ELR-4-QC-MP. MOUNTED AS SHOWN. SEE DETAIL 3, SHEET FA2.01. REFER TO MANUFACTURER'S MANUAL FOR INSTALLATION INSTRUCTIONS.

(7) PROVIDE 4S J.BOX WITH (1) MONITOR MODULE (FOR WIRING SEE DETAIL 3, SHEET FA2.01). MOUNT AS SHOWN.

(8) LINEAR HEAT DETECTOR, MOUNTED AS SHOWN. SEE DETAIL 3, SHEET FA2.01. REFER TO MANUFACTURER'S MANUAL FOR INSTALLATION INSTRUCTIONS.

(9) MOUNT JUST BELOW CEILING.

(10) PRIOR TO INSTALLATION OF ANY SMOKE OR HEAT DETECTOR BELOW CEILING, VERIFY EXACT LOCATION OF CEILING AIR REGISTERS AND LIGHT FIXTURES, AND INSTALL SMOKE AND HEAT DETECTORS A MINIMUM OF 3' FROM ANY AIR REGISTER AND/OR A MINIMUM OF 2' FROM ANY LIGHT FIXTURE.

(11) COMBINATION SMOKE/FIRE DAMPER. SEE MECHANICAL DRAWINGS.

(12) SMOKE/FIRE DAMPER CONTROL RELAY WITH (2) N.O. CONVERTIBLE CONTACTS. RATED 10A @120V (SQUARE-D #X020, OR EQUAL).

(13) 3/4"C, 2#14 FOR DAMPER OPERATING CONTROL. SEE TYPICAL DIAGRAM, DET. 6/FA2.01.

(14) PROVIDE (1) 20A/1P CIRCUIT BREAKER IN EXISTING PANEL'S "DB" SPACE #42 (ADDITIONAL LOAD TO PANEL "DB" IS 0.7 AMPS FOR FOR 2 SF DAMPERS). THE CIRCUIT BREAKER SHALL HAVE A RED MARKING AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. THE LOCATION OF THE CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE EXISTING FIRE ALARM CONTROL UNIT.

PROJECT CONSTRUCTION FEATURES:

1. ALL EXISTING AND NEW INTERIOR WALLS ARE NOT RATED, EXCEPT (3) WALLS: BETWEEN ENTRY 410 AND BOYS RESTROOM 411; BETWEEN ENTRY 419 AND BOYS RESTROOM 418 AND CMU BLOCK WALL ALONG ENTIRE COL. LINE 9 (SEE FLOOR PLAN, THIS SHEET, AND DRAWINGS A104 AND A105).
2. ALL EXISTING AND NEW INTERIOR WALLS ARE FULL HEIGHT WALLS FROM FLOOR TO CEILING, EXCEPT SEVERAL FREESTANDING AND PONY WALLS, AS SHOWN ON FLOOR PLAN THIS SHEET.
3. THERE ARE (2) TYPES OF EXISTING AND NEW INTERIOR WALLS: BLOCK WALLS AND METAL STUD WALLS. REFER TO SHEET FA2.02 FOR DEVICES INSTALLATION DETAILS ON CORRESPONDING TYPES OF WALLS. (NOTE: DO NOT PENETRATE ANY RATED WALL WITH ANY CONDUIT).
4. FOR INSTALLATION OF DEVICES ON CEILING, REFER TO DETAIL 5. SHEET FA2.01.

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PROJECT No. 48361

REGISTERED PROFESSIONAL ENGINEER SHMAYER No. E11075 EXPIRES 06-30-21 ELECTRICAL STATE OF CALIFORNIA

AMADOR WHITTLE ARCHITECTS, INC.
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LICENSED ARCHITECT JEAN ANN AMADOR C-22205 APRIL 30, 2021 RENEWAL DATE STATE OF CALIFORNIA

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

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FIRE ALARM PLANS

FA1.02

___ OF ___

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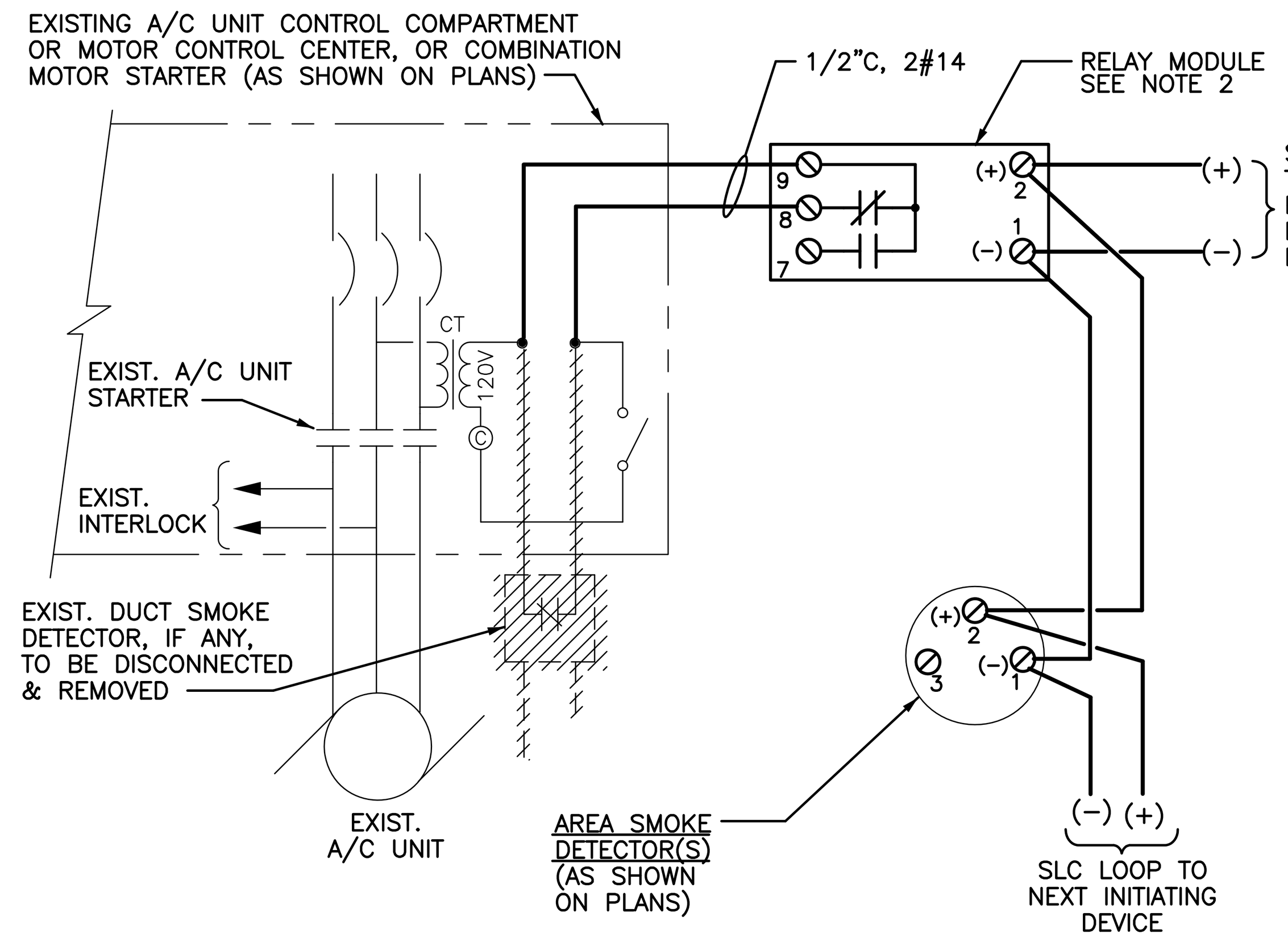
07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 3 OF 6 - Fire Alarm



NOTES:

1. ALL EQUIPMENT & WIRING SHOWN LIGHT IS EXISTING. NEW DEVICES & WIRING ARE SHOWN HEAVY.
2. LOCATE NEW F.A. RELAY MODULE AT EXISTING STARTER, AND CONNECT N.C. CONTACT OF RELAY MODULE IN SERIES WITH THE STARTER COIL (CONNECT TO SAME TERMINALS WHERE N.C. CONTACT OF EXISTING REMOVED DUCT DETECTOR WAS CONNECTED). THE N.C. CONTACT SHALL BE CLOSED UNDER NORMAL CONDITIONS TO ALLOW HVAC EQUIPMENT TO OPERATE, BUT SHALL OPEN AND SHUT DOWN THE HVAC EQUIPMENT UNDER FIRE CONDITIONS (SIGNAL FROM FACP).

1 N.T.S. **TYPICAL AC UNIT SHUT DOWN CONTROLS**

2 N.T.S. **NOT USED**

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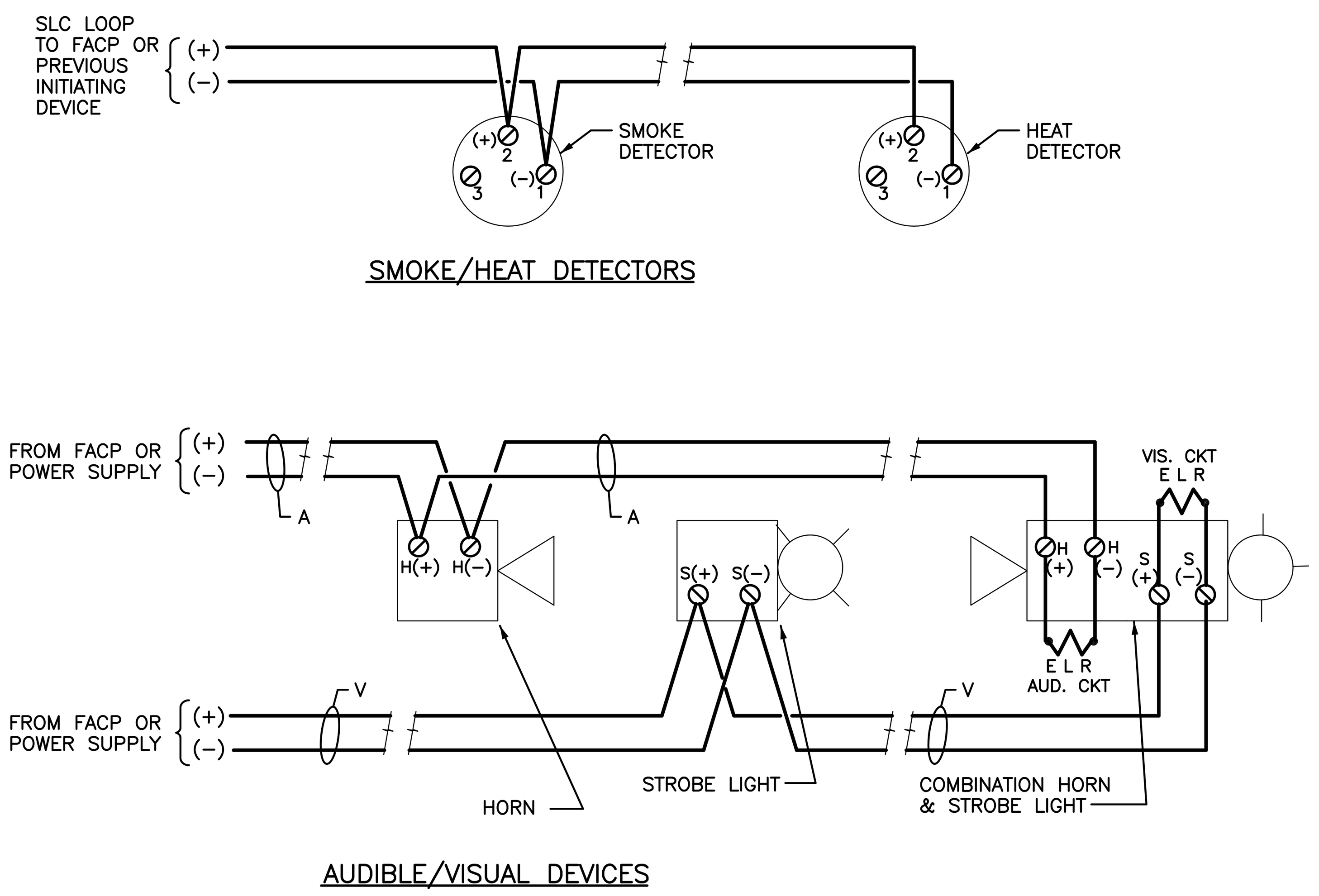

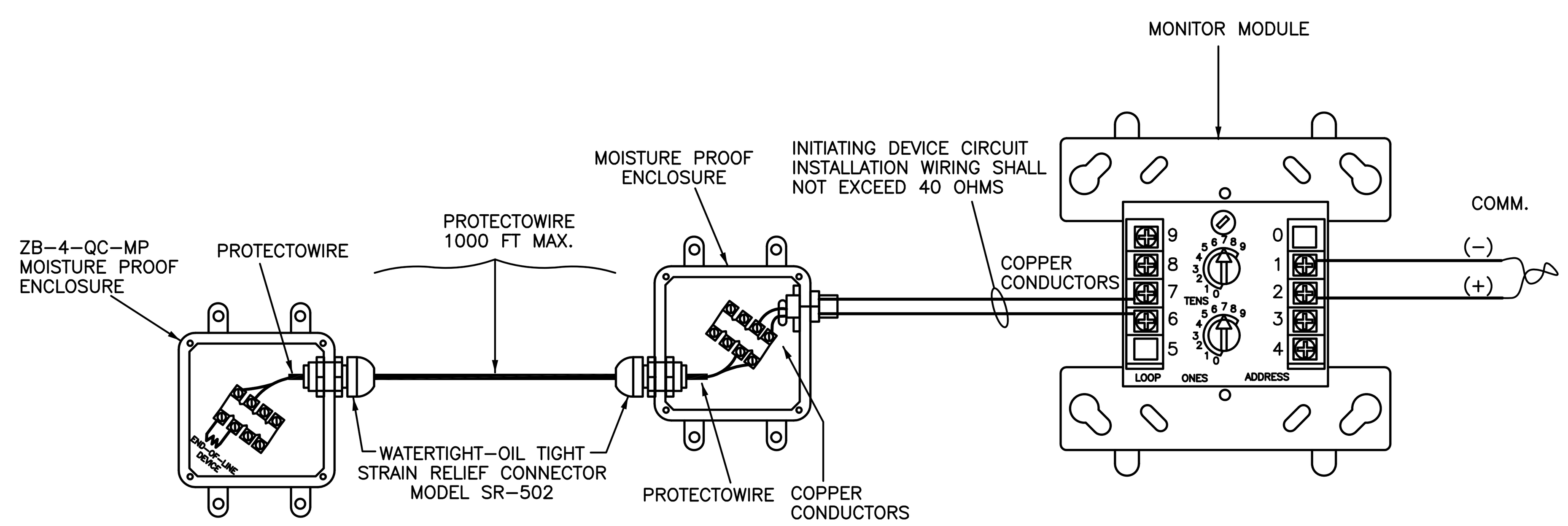

NOTES:

1. ANY NUMBER OF UL LISTED CONTACT CLOSURE DEVICES MAY BE USED. DO NOT MIX FIRE ALARM INITIATING, SUPERVISORY, OR SECURITY DEVICES ON THE SAME MODULE.
2. ALL WIRING SHOWN IS SUPERVISED AND POWER LIMITED.
3. INSTALL CONTACT CLOSURE DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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PROJECT No. 48301

REGISTERED PROFESSIONAL ENGINEER — No. E11075 — EXPIRES 06-30-21 — ELECTRICAL — STATE OF CALIFORNIA

4 N.T.S. **TYPICAL FIRE ALARM DEVICES WIRING DIAGRAMS**

3 N.T.S. **TYPICAL LINEAR HEAT DETECTOR WIRING DIAGRAM**

AMADOR WHITTLE ARCHITECTS, INC.

LICENSED ARCHITECT — JEAN ANN AMADOR — C-22205 — APRIL 30, 2021 RENEWAL DATE — STATE OF CALIFORNIA

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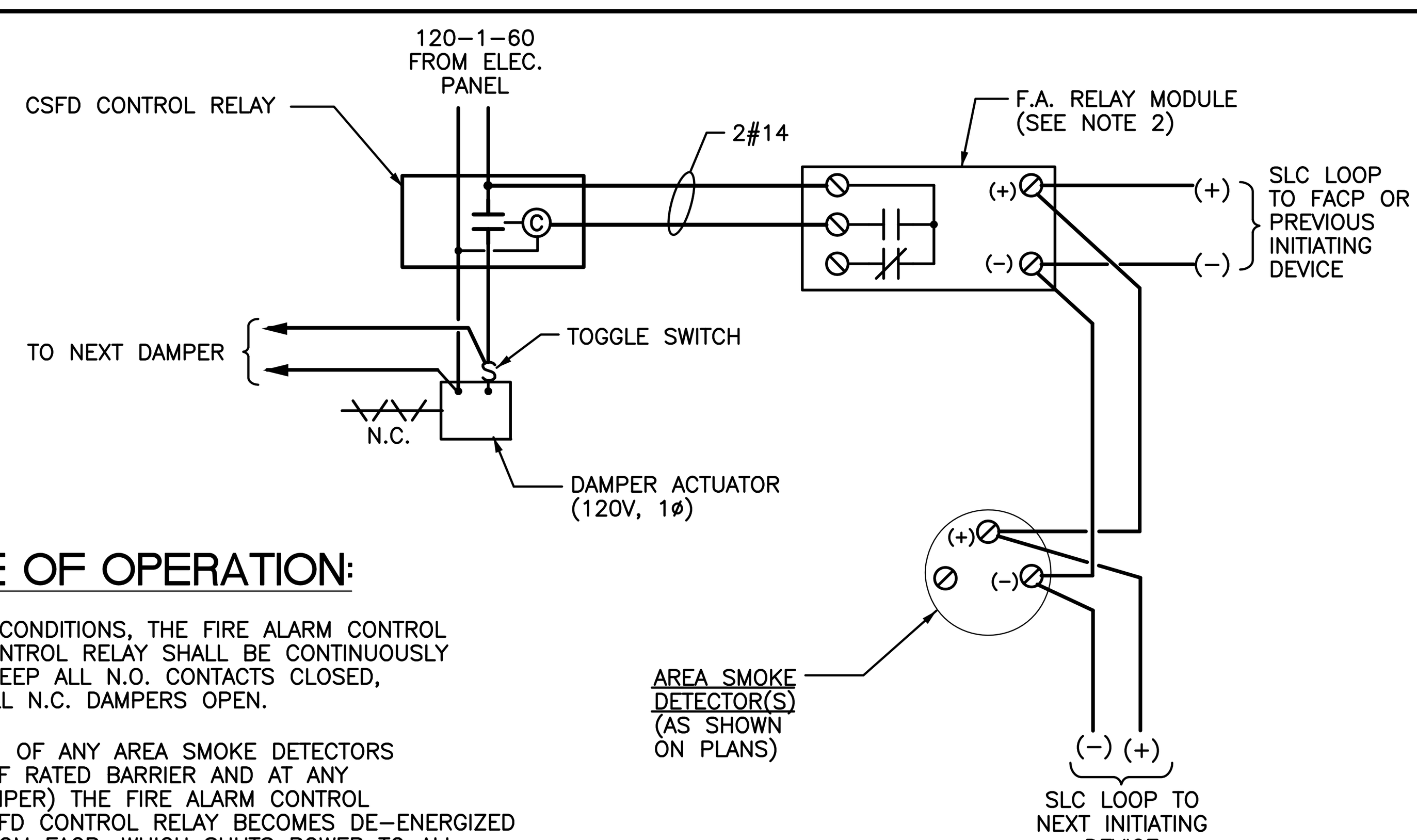
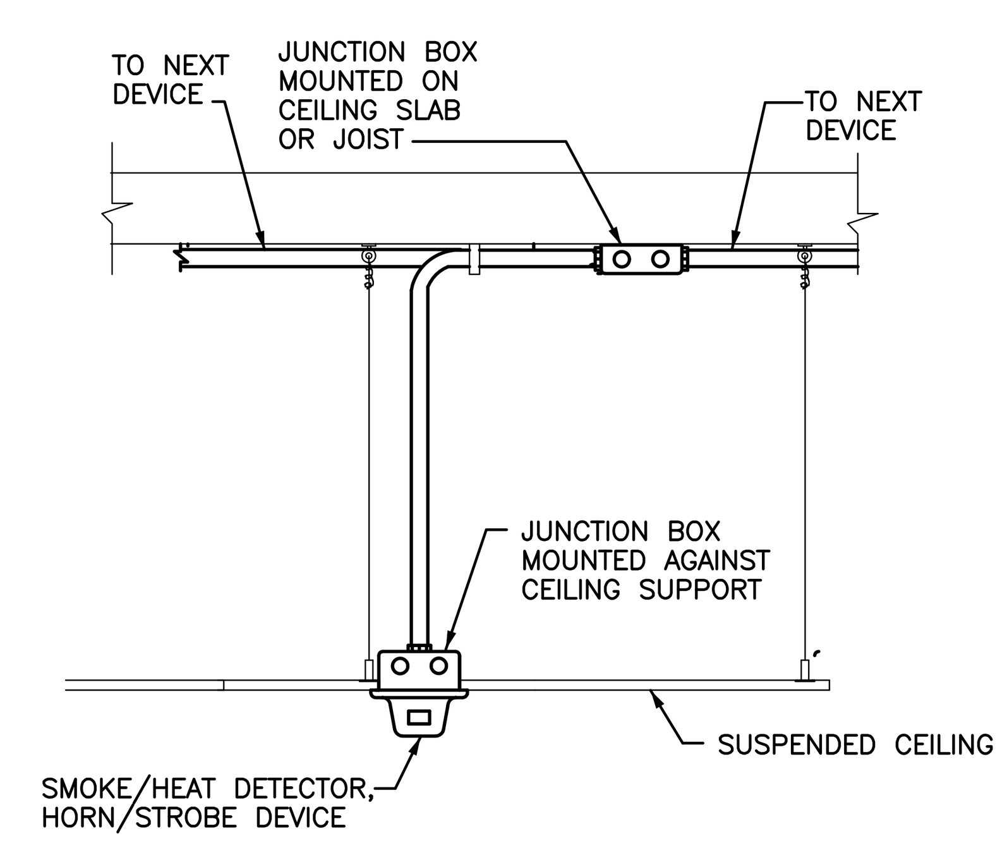


SEQUENCE OF OPERATION:

1. UNDER NORMAL CONDITIONS, THE FIRE ALARM CONTROL MODULE AND CONTROL RELAY SHALL BE CONTINUOUSLY ENERGIZED TO KEEP ALL N.O. CONTACTS CLOSED, WHICH KEEPS ALL N.C. DAMPERS OPEN.
2. UPON ACTIVATION OF ANY AREA SMOKE DETECTORS (ON ANY SIDE OF RATED BARRIER AND AT ANY SMOKE/FIRE DAMPER) THE FIRE ALARM CONTROL MODULE AND CSFD CONTROL RELAY BECOMES DE-ENERGIZED ON A SIGNAL FROM FACP, WHICH SHUTS POWER TO ALL DAMPER ACTUATORS AND ALL DAMPERS CLOSE IMMEDIATELY.



6 N.T.S. **TYPICAL COMBINATION SMOKE/FIRE DAMPER WIRING DIAGRAM**

5 N.T.S. **TYPICAL FIRE ALARM DEVICE MOUNTING DETAIL**

ROYAL HIGH SCHOOL - BOYS LOCKER ROOM RENOVATION

1402 ROYAL AVENUE, SIMI VALLEY, CA 93065

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FIRE ALARM SYSTEM TYPICAL INSTALLATION DETAILS AND WIRING DIAGRAMS

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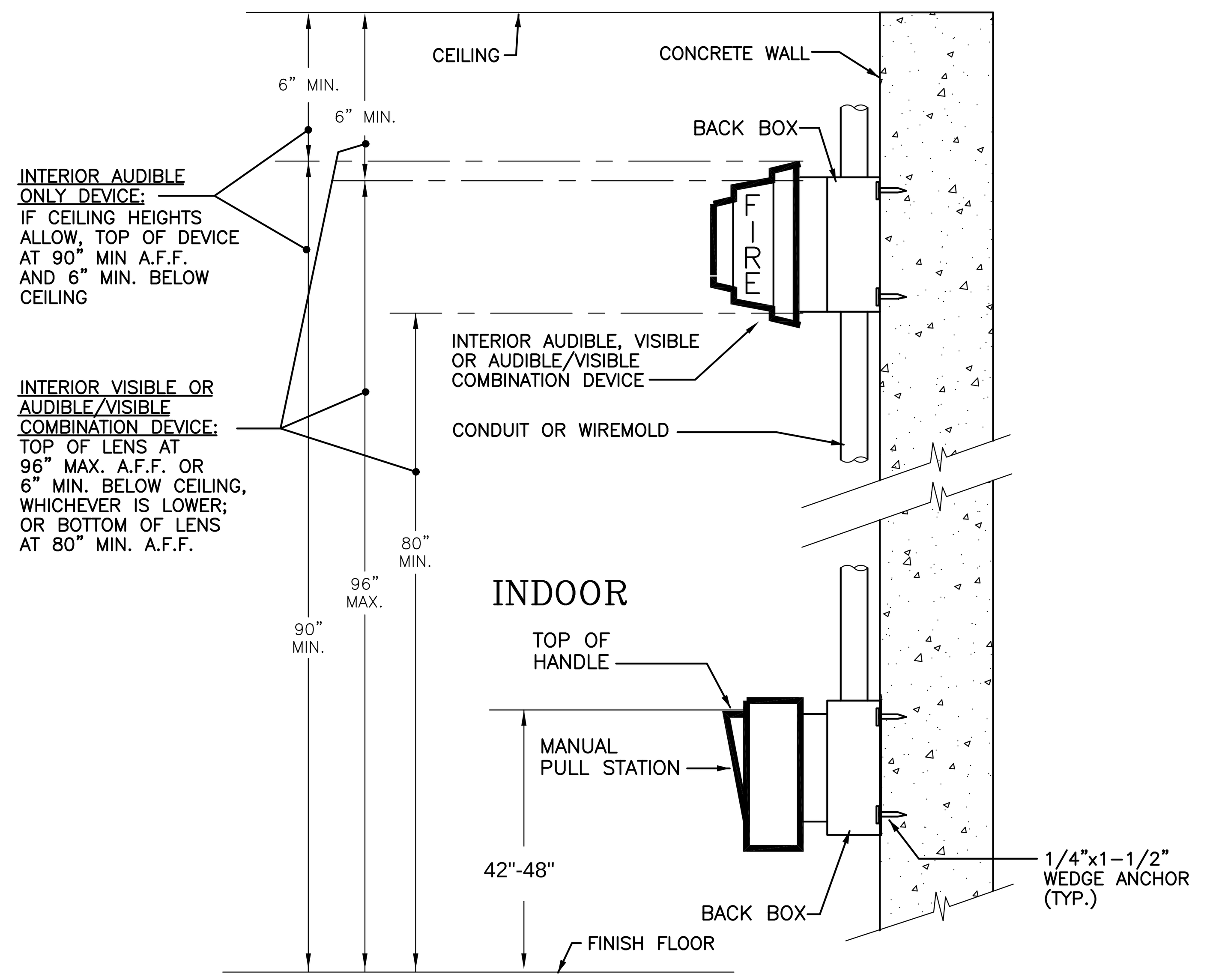
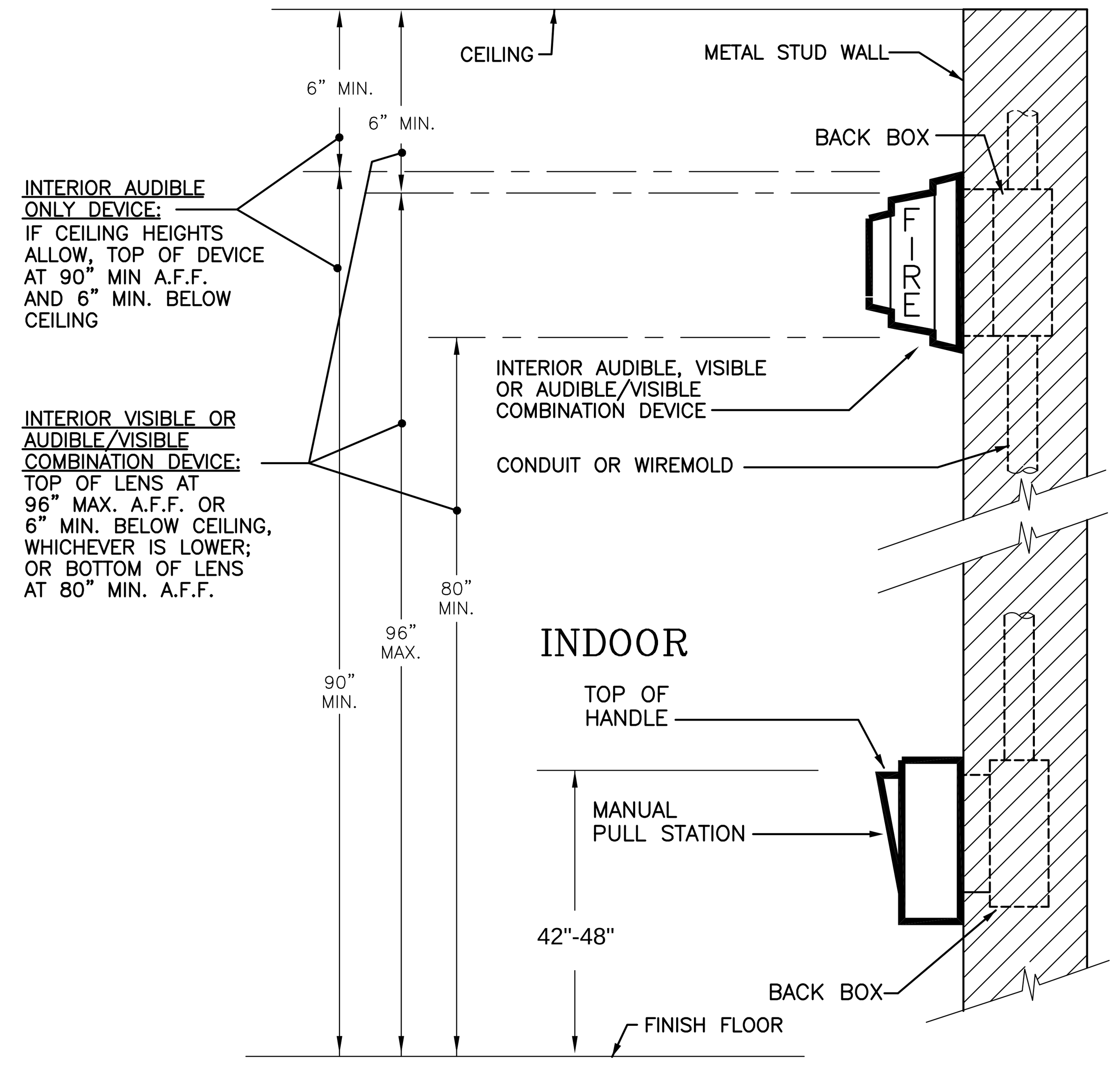
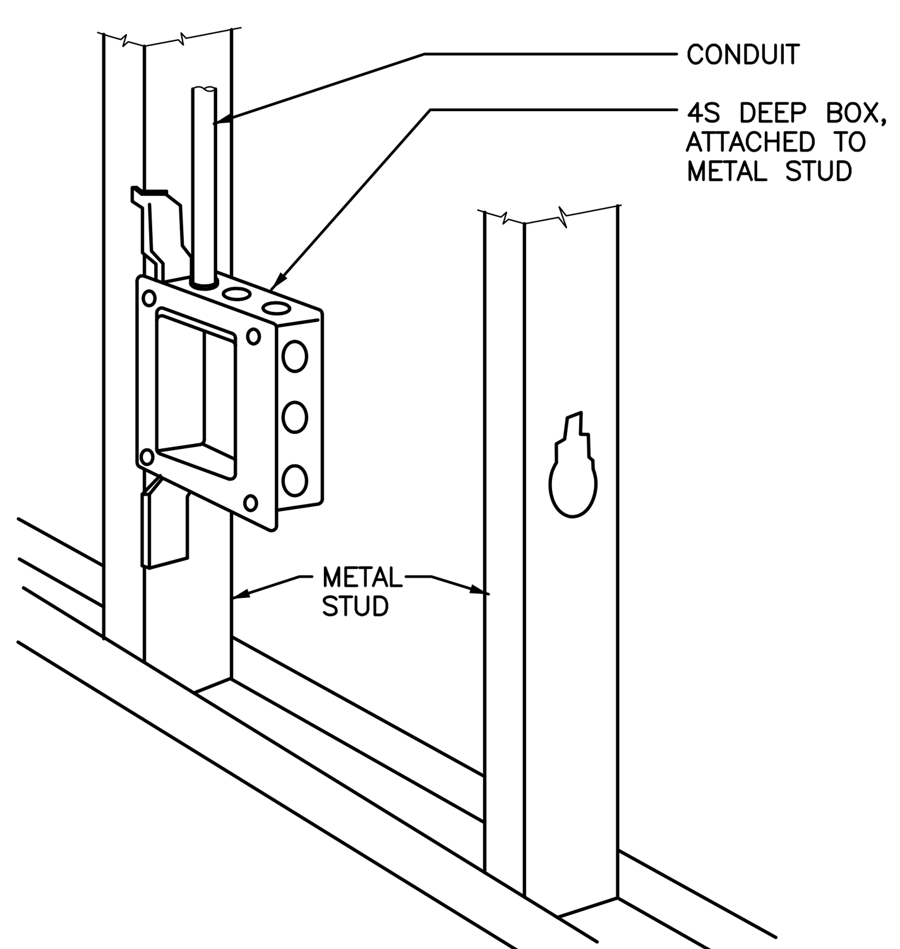
SHEET # 4 OF 6 - Fire Alarm



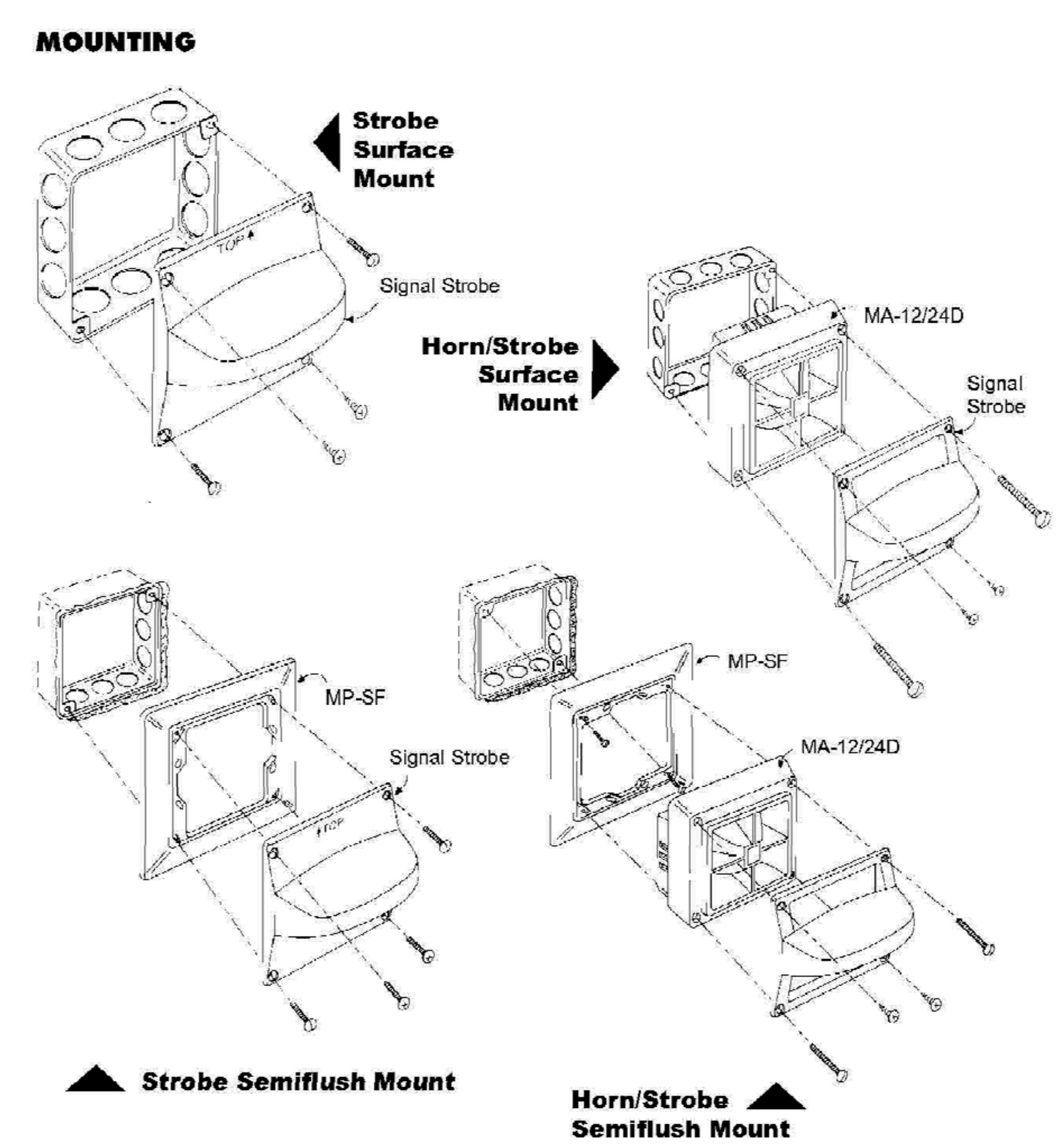
1 N.T.S.
TYPICAL FIRE ALARM DEVICE MOUNTING DETAIL (BLOCK WALL)



2 N.T.S.
TYPICAL FIRE ALARM DEVICE MOUNTING DETAIL (METAL STUD WALL)



3 N.T.S.
BOX MOUNTING DETAIL (METAL STUD WALL)



4 N.T.S.
FIRE ALARM DEVICE ATTACHMENT DETAIL

5 N.T.S.

6 N.T.S.

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REGISTERED PROFESSIONAL ENGINEER
IGOR SHNAYDER
No. E11075
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STATE OF CALIFORNIA

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FIRE ALARM SYSTEM TYPICAL INSTALLATION DETAILS

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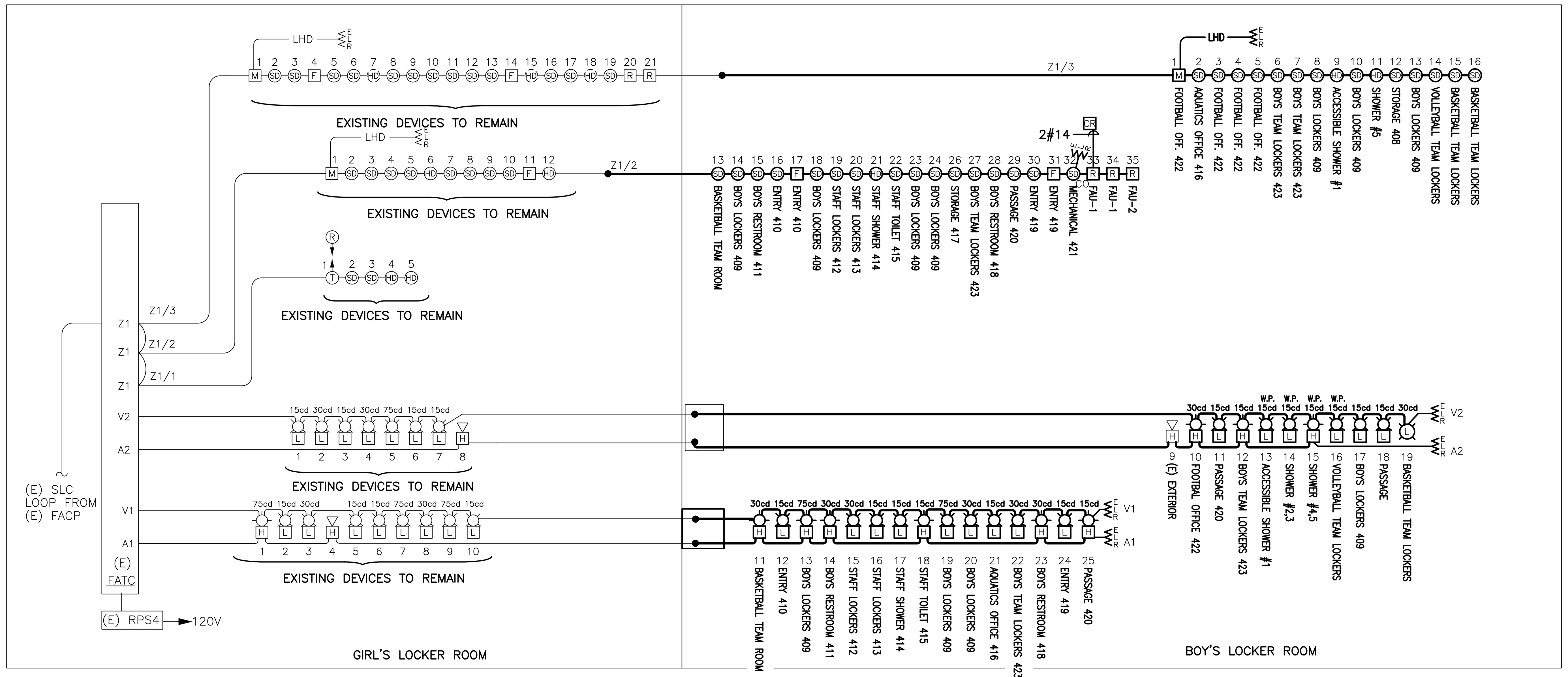
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2020



1 FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE

RPS-1000 Battery Calculations RPS4 Data Loop 1 As EXISTING									
Description	Quantity		Standby (Amps)		Total Standby (Amps)		Alarm (Amps)		Total Alarm (Amps)
RPS-1000 BASIC EQUIP.	1	x	0.139500	=	0.139500	x	0.407000	=	0.407000
SMOKE / HEAT DETECTORS	30	x	0.000550	=	0.016500	x	0.000550	=	0.016500
BEAM SMOKE DETECTOR	1	x	0.002000	=	0.002000	x	0.008500	=	0.008500
MONITOR MODULE	2	x	0.000550	=	0.001100	x	0.000550	=	0.001100
DUCT DETECTOR	6	x	0.035000	=	0.210000	x	0.075000	=	0.450000
RELAY MODULE	2	x	0.000550	=	0.001100	x	0.000550	=	0.001100
MANUAL PULL STATION	3	x	0.000550	=	0.001650	x	0.000550	=	0.001650
HORN	1	x	0.000000	=	0.000000	x	0.030000	=	0.030000
STROBE, 15cd	8	x	0.000000	=	0.000000	x	0.055000		0.440000
STROBE, 30cd	4	x	0.000000	=	0.000000	x	0.063000		0.252000
STROBE, 75cd	4	x	0.000000	=	0.000000	x	0.112000		0.448000
STROBE, 110cd	0	x	0.000000	=	0.000000	x	0.136000		0.000000
Total					0.371850				2.055850

Battery Calculation	Time		Multiplier		Amp Hours
Supervisory Hours	24	x	0.371850	=	8.924400
Alarm Hours (5 min)	0.083	x	2.055850	=	0.171321
Total Amp Hours					9.095721
Battery Used (AH)					18.000000
Battery Spare (AH)					**8.904279**

RPS-1000 Battery Calculations RPS4 Data Loop 1 As MODIFIED									
Description	Quantity		Standby (Amps)		Total Standby (Amps)		Alarm (Amps)		Total Alarm (Amps)
RPS-1000 BASIC EQUIP.	1	x	0.139500	=	0.139500	x	0.407000	=	0.407000
SMOKE / HEAT DETECTORS	**62**	**x**	**0.000550**	**=**	**0.034100**	**x**	**0.000550**	**=**	**0.034100**
BEAM SMOKE DETECTOR	1	x	0.002000	=	0.002000	x	0.008500	=	0.008500
MONITOR MODULE	**3**	**x**	**0.000550**	**=**	**0.001650**	**x**	**0.000550**	**=**	**0.001650**
DUCT DETECTOR	6	x	0.035000	=	0.210000	x	0.075000	=	0.450000
RELAY MODULE	**5**	**x**	**0.000550**	**=**	**0.002750**	**x**	**0.000550**	**=**	**0.002750**
MANUAL PULL STATION	**5**	**x**	**0.000550**	**=**	**0.002750**	**x**	**0.000550**	**=**	**0.002750**
HORN	**10**	**x**	**0.000000**	**=**	**0.000000**	**x**	**0.030000**	**=**	**0.300000**
STROBE, 15cd	**23**	**x**	**0.000000**	**=**	**0.000000**	**x**	**0.055000**		**1.265000**
STROBE, 30cd	**12**	**x**	**0.000000**	**=**	**0.000000**	**x**	**0.063000**		**0.756000**
STROBE, 75cd	**6**	**x**	**0.000000**	**=**	**0.000000**	**x**	**0.112000**		**0.672000**
STROBE, 110cd	0	x	0.000000	=	0.000000	x	0.136000		0.000000
Total					**0.392750**				**3.899750**

Battery Calculation	Time		Multiplier		Amp Hours
Supervisory Hours	24	x	0.392750	=	9.426000
Alarm Hours (5 min)	0.083	x	3.899750	=	0.324979
Total Amp Hours					9.750979
Battery Used (AH)					18.000000
Battery Spare (AH)					**8.249021**

CIRCUIT LEGEND AND VOLTAGE DROP CALCULATIONS

POWER SUPPLY	LOCATED IN	LOOP TYPE & No.	DEVICES (INCLUDING EXISTING)						WIRE		TOTAL	ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF LOAD	TOTAL VD	VOLTAGE AT LAST DEVICE (20.4V-VD)
			SYNCH. MODULE	HORN	STROBES 15cd	STROBES 30cd	STROBES 75cd	STROBES 110cd	SIZE	DC RESIST.				
			0.046	0.028	0.066	0.094	0.158	0.202	AWG	OHMS	AMPS	FEET	VOLTS	VOLTS
(E) RPS4	GIRLS LOCKER RM.	A1	1	8					14	3.07	0.270	100	0.166	20.23
		V1			12	8	5		14	3.07	2.334	100	1.433	18.97
		A2	1	5					14	3.07	0.186	100	0.114	20.29
		V2			14	4	1		14	3.07	1.458	100	0.895	19.50

2 FIRE ALARM SYSTEM CALCULATIONS
NOT TO SCALE

Formulas used for calculations:

FORMULA FOR BATTERY SIZING:
For FACP / RPS - 24 HOURS STANDBY & 15 MIN IN ALARM:
Amp Hour = 1.25 [(24 hours X I(s)) + (15/60 hour X I(a))] x 1.30
where,
1.25 = Battery derating value
I(s) = Total Supervisory current (0 for notification devices and 48 mA for FCPS-24)
I(a) = Total Alarm Current
1.30 = 30% Spare Battery Capacity

FORMULA FOR VOLTAGE DROP CALCULATIONS

Total DC resistance = # of wires X Rdc/1000 X One-way loop length from power supply to middle of load

Total VD = Total DC resistance X Total Alarm Current

Minimum Voltage at Devices = 20.4V - Total VD

20.4V = Minimum voltage at end of usefull battery life (85% of 24VDC)

NOTE:
THE MANUFACTURER'S OPERATING VOLTAGE IS BETWEEN 16VDC AND 33 VDC (FOR 24VDC NOMINAL)

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REVISIONS		
REVISIONS	05.15.2020 DSA_V1 SUBMITTAL	DATE: 09/10/20
	09.10.2020 DSA_V2 SUBMITTAL	DRAWN: S.L.
		CHECK: I.S.
		JOB NO: 19-SVUSD-031

FIRE ALARM SYSTEM RISER DIAGRAM AND CALCULATIONS

IF THIS SHEET IS NOT 36" X 24", IT IS NOT FULL SIZE, SCALE DRAWINGS ACCORDINGLY

FA3.01

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07/08/20 DSA BACKCHECK SUBMITTAL
SHEET # 6 OF 6 - Fire Alarm