10/28/2021 3:47:21 PM

FOOTHILL HIGH SCHOOL
MODULAR CTE WORKSHOP BUILDING
INCREMENT 2

4375 FOOTHILL RD, PLEASANTON, CA 94588

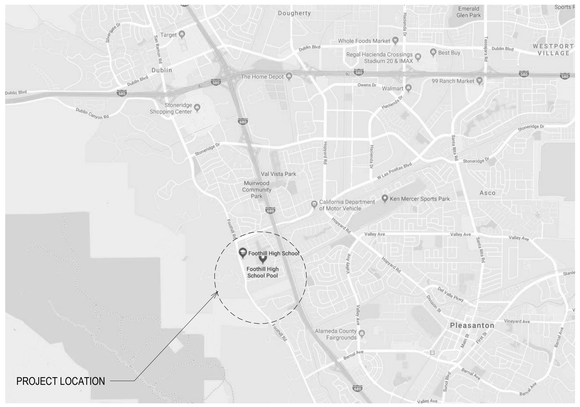
OWNER	**PLEASANTON UNIFIED SCHOOL DISTRICT** 4665 BERNAL AVE., PLEASANTON, CA 94566
ARCHITECT	**HKIT ARCHITECTS** 538 NINTH STREET, SUITE 240, OAKLAND, CA 94607 510.625.9800
CIVIL ENGINEER	**BELLECCI & ASSOCIATES** 2290 DIAMOND BLVD, SUITE 100, CONCORD, CA 94520 925.685.4569
MECHANICAL ENGINEER	**H&M MECHANICAL GROUP** 8517 EARHART RD # 230, OAKLAND CA 94612 510.569.2000
ELECTRICAL ENGINEER	**BWF CONSULTING ENGINEERS** 220 SO. SPRUCE AVENUE, SUITE 203, SO. SAN FRANCISCO, CA 94080 650.871.0220
FIRE PROTECTION	**CYPRESS ENGINEERS** 8 HARRIS COURT, SUITE A8, MONTERRY, CA 93940 831.218.1802
LANDSCAPE ARCHITECT	**KELLER MITCHELL & CO. LANDSCAPE ARCHITECTURE** 302 FOURTH STREET, OAKLAND, CA 94607 510.451.9987

SUMMARY OF WORK

CONSTRUCTION OF A NEW 2-STORY MODULAR CLASSROOM BUILDING.

DEFFERED APPROVAL ITEMS

N/A



GENERAL

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FIRE PROTECTION **FOR REFERENCE ONLY**

FP1.1	SITE PLAN - FIRE PROTECTION
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REGULATORY REQUIREMENTS

REFERENCES

A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/ THE FOLLOWING GOVERNING CODES:

1. 2016 CALIFORNIA ADMINISTRATIVE CODE. PART 1, TITLE 24, C.C.R.
2. 2016 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, C.C.R. (BASED ON 2015 INTERNATIONAL BUILDING CODE (IBC) W/ CA. AMENDMENTS)
3. 2016 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, C.C.R. (BASED ON 2014 NATIONAL ELECTRICAL CODE (NEC) W/ CA. AMENDMENTS)
4. 2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, C.C.R. (BASED ON 2015 UNIFORM MECHANICAL CODE (IMC) W/ CA. AMENDMENTS)
5. 2016 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, C.C.R. (BASED ON 2015 UNIFORM PLUMBING CODE W/ CA. AMENDMENTS)
6. 2016 CALIFORNIA ENERGY CODE (CFC) PART 6, TITLE 24, C.C.R.
7. NOT USED
8. NOT USED
9. 2016 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, C.C.R. (BASED ON 2012 INTERNATIONAL FIRE CODE W/ CA. AMENDMENTS (IFC))
10. 2016 CALIFORNIA EXISTING BUILDING CODE (CEBC) PART 10, TITLE 24, C.C.R. (BASED ON 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC))
11. 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
12. 2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
13. NFPA 13 - 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED.
14. NFPA 14 - 2016 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS.
15. NFPA 24 - 2016 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
16. NFPA 72 - 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED
17. FEDERAL AMERICANS WITH DISABILITIES (ADA) ACT STANDARDS

QUALITY ASSURANCE

A. THE PROJECT FALLS UNDER THE JURISDICTION OF THE DEPARTMENT OF THE STATE ARCHITECT (DSA), STATE OF CALIFORNIA.

B. DSA WILL INSPECT THE WORK PERIODICALLY PURSUANT TO TITLE 24, PART 1, SECTION 4-334, CCR.

C. MATERIAL TESTING SHALL BE CONDUCTED PER TITLE 24, PART 1, SECTION 4-335.

1. ALL TESTING MUST BE DONE BY AN INDEPENDENT TESTING SERVICE EMPLOYED BY THE OWNER, AND APPROVED BY THE ARCHITECT.
2. THE OWNER SHALL PAY FOR ALL TESTING PER TITLE 24, PART 1, SECTION 335(C), CCR.
3. WHERE TEST RESULTS DO NOT MEET PROJECT REQUIREMENTS, THE CONTRACTOR SHALL BEAR ALL COSTS OF THE TESTING, INCLUDING REIMBURSEMENT OF THE TESTING FEES, TO THE OWNER.
4. SPECIAL INSPECTIONS, WHERE REQUIRED, WILL BE PERFORMED PER TITLE 24, PART 1, SECTION 4-333(C), CCR.

PERMITS, FEES, AND NOTICES

A. PURSUANT TO THE GENERAL CONDITIONS, THE CONTRACTOR (OR THE SUBCONTRACTORS IT MAY ASSIGN) SHALL OBTAIN REQUIRED PERMITS FROM GOVERNING AUTHORITIES.

B. ANY REQUIREMENTS ISSUED WITH A PERMIT OR MARKED ON THE PERMIT SET OF CONSTRUCTION DOCUMENTS BY THE ISSUING AGENCY, AS CONDITIONS OF THE AGENCY'S PERMIT APPROVAL, SHALL BE REFERRED TO THE ARCHITECT FOR DIRECTION.

REPORTS AND APPROVALS

B. VERIFIED REPORTS MUST BE FILED BY THE ARCHITECT, INSPECTOR, AND CONTRACTOR.

1. THE INSPECTOR SHALL FILE VERIFIED REPORTS PER TITLE 24, PART 1, SECTION 4-336.
2. THE ARCHITECT SHALL FILE VERIFIED REPORTS PER TITLE 24, PART 1, SECTION 4-336.
3. THE CONTRACTOR SHALL FILE VERIFIED REPORTS PER TITLE 24, PART 1, SECTION 4-336 AND 4-343(C).

C. IN ADDITION TO THE REQUIREMENTS OF THE GENERAL CONDITIONS, ALL ADDENDA AND CONSTRUCTION CHANGE DOCUMENTS REQUIRE DSA APPROVAL PURSUANT TO TITLE 24, PART 1, SECTION 4-338, CCR.

1. CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL AND APPROVED BY DSA

DUTIES OF THE ARCHITECT AND CONTRACTOR

A. THE FOLLOWING SHALL PERFORM THE DUTIES DESCRIBED:

1. THE ARCHITECT, PER TITLE 24, PART 1, SECTION 4-333(A) AND 4-341, CCR.
2. THE CONTRACTOR, PER TITLE 24, PART 1, SECTION 4-343, CCR. 2.
3. THE MECHANICAL AND ELECTRICAL ENGINEERS PER 4-344

OTHER REQUIREMENTS

A. A COPY OF PARTS 1 TO 5 TITLE 24, C.C.R. SHALL BE KEPT ON JOB SITE DURING CONSTRUCTION.

B. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE (SECTION 4-331), PART 1).

C. A DSA CLASS 1 PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY THE ARCHITECT AND DSA. INSPECTION SHALL BE PREFORMED IN ACCORDANCE WITH SECTION 4-333(b), PART1, TITLE 24. THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART1, TITLE 24.

D. DSA IS NOT SUBJECT TO ARBITRATION.

E. ANY SUBSTITUTION SHALL BE CONSIDERED A CHANGE TO THE APPROVED APPLICATION AND SHALL BE SUBJECT TO FURTHER REVIEW AND APPROVAL BY DSA PRIOR TO FABRICATION, CONSTRUCTION, OR USE. SUBSTITUTION OF MAJOR STRUCTURAL ELEMENTS SUCH AS FRAMING ETC. MUST BE STAMPED AND SIGNED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.

F. BUILDINGS SHALL BE GROUNDED TO THE SITE PER TITLE 24, CCR.

G. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE SCHOOL BUILDING IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

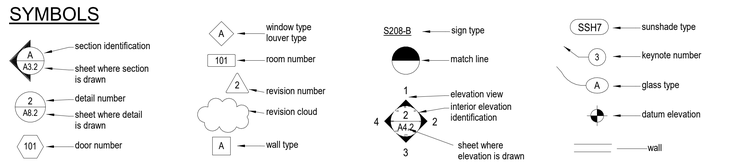
NOTE:

"DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION: IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK."

ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
[	CHANNEL
Ø	DIAMETER OR ROUND
⊥	PERPENDICULAR
#	POUND OR NUMBER
(E)	EXISTING
(F)	FUTURE
(N)	NEW
(R)	REMOVED
A.B.	ANCHOR BOLT
ABV.	ABOVE
A.C.	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACOUS.	ACOUSTICAL
AC.T.	ACOUSTICAL TILE
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AGGR.	AGGREGATE
ALT.	ALTERNATE
AL. /ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
BOT.	BOTTOM
BTWN.	BETWEEN
CAB.	CABINET
C.B.	CATCH BASIN
CEM.	CEMENT
CEM. PLA.	CEMENT PLASTER
CER.	CERAMIC
CFS	COLD FORMED STEEL
CI.	CAST IRON
C.J.	CONTROL JOINT
CLG.	CEILING
CLKG.	CAULKING
CLO.	CLOSET
CLR.	CLEAR
CMU.	CONC. MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CNTR.	COUNTER
CT.	CERAMIC TILE
CTR.	CENTER
CTSK.	COUNTERSUNK
DBL.	DOUBLE
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
D.FIR	DOUGLAS FIR
DIA.	DIAMETER
DIM.	DIMENSION
DIST.	DISTANCE
DN.	DOWN
DR.	DOOR
DS.	DOWNSPOUT
DWG.	DRAWING
DWR.	DRAWER
E.	EAST
EA.	EACH
ED.	EDITION
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANELBOARD
EPDM	SYNTHETIC RUBBER
EPS	EXPANDED POLYSTYRENE
EQ.	EQUAL
EQPT.	EQUIPMENT
EXP.	EXPANSION
EXPO.	EXPOSED
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.B.	FLAT BAR
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CAB.
FF	FACTORY FINISH
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FL./FLR.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.C.	FACE OF CONCRETE/ FACE OF CURB
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
FPRF.	FIREPROOF
FRT	FIRE RETARDANT TREATED
F.S.	FULL SIZE
F.S.#	FINISH SYSTEM NUMBER
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.I.	GALVANIZED IRON
GL.	GLASS
GND.	GROUND
GR.	GRADE
GSM	GALVANIZED SHEET METAL
GWB	GYPSUM WALL BOARD
GYP.	GYPSUM
G.A.	GYPSUM ASSOCIATION
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
HDWR.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.P.	HEAT PUMP
HR.	HOUR
HS.	HEAT STRENGTHENED
HT.	HEIGHT
I.D.	INSIDE DIAMETER (DIM.)
I.D.F.	INTERMEDIATE DIST. FRAME
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
KIT.	KITCHEN
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LKR.	LOCKER
LT.	LIGHT
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MEMB.	MEMBRANE
MET.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MR.	MOISTURE RESISTANT
MTD.	MOUNTED
MUL.	MULLION
N.	NORTH
N.I.C	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S	NOT TO SCALE
O/	OVER
O.A.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER (DIM.)
O.F.D.	OVERFLOW DRAIN
OFF.	OFFICE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPNG.	OPENING
OPP.	OPPOSITE
P.D.F.	POWER DRIVEN FASTENER
PL.	PLATE
P.LAM	PLASTIC LAMINATE
PLAS.	PLASTIC
PLYWD.	PLYWOOD
PNT.	PAINT
PR.	PAIR
PRCST.	PRE-CAST
PSF	POUNDS PER SQUARE FOOT
PT.	POINT
PTN.	PARTITION
P.T.R.	PAPER TOWEL RECEPTACLE
QT.	QUARRY TILE
R.	RISER
RAD.	RADIUS
RAT.	RATING
R.D.	ROOF DRAIN
REF.	REFERENCE/REFRIGERATOR
RGTR.	REGISTER
REINF.	REINFORCED
REQ'D	REQUIRED
RET.	RETARDANT
RESIL.	RESILIENT
RM.	ROOM
R.O.	ROUGH OPENING
RTD.	RATED
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER (PIPE)
S.	SOUTH
SAF	SELF ADHERED FLASHING
S.A.P.	SUSPENDED ACOUSTICAL PANEL
S.C.D.	SEE CIVIL DOCUMENTS/ SEAT COVER DISPENSER
SCHED.	SCHEDULE
S.C.WD.	SOLID CORE WOOD
S.D.	SOAP DISPENSER
SDS	SELF DRILLING SCREW
SECT.	SECTION
S.E.D.	SEE ELECTRICAL DOCUMENTS
SFRM	SPRAYED FIRE RESISTIVE MATERIAL
SH.	SHELF
SHT.	SHEET
SHWR.	SHOWER
SIM.	SIMILAR
S.L.D.	SEE LANDSCAPE DOCUMENTS
S.M.D.	SEE MECHANICAL DOCUMENTS
SMS	SHEET METAL SCREW
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
SOG	SLAB ON GRADE
SPEC.	SPECIFICATIONS
S.P.D.	SEE PLUMBING DOCUMENTS
SPF	SPRAYED POLYURETHANE FOAM
SQ.	SQUARE
S.S.	STAINLESS STEEL
S.S.D.	SEE STRUCTURAL DOCUMENTS
S.SK.	SERVICE SINK
STA.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRL	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T.	TILE
T.B.	TACKBOARD
TEL.	TELEPHONE
TEMP.	TEMPERATURE
THK.	THICK (THICKNESS)
TLT.	TOILET
T.O.C.	TOP OF CURB/ TOP OF CONCRETE
T.O.S.	TOP OF SLAB
T.O.P.	TOP OF PAVEMENT
T.O.W	TOP OF WALL
T.P.D	TOILET PAPER DISPENSER
TRD.	TREAD
TV.	TELEVISION
TYP.	TYPICAL
T.W.B.	TACKABLE WALLBOARD
T & G	TONGUE AND GROOVE
U.L.	UNDERWRITERS LABORATORIES
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
VCT.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
V.G.	VERTICAL DRAIN
V.W.C.	VINYL WALL COVERING
W.	WEST
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W/O	WITHOUT
W.O.	WHERE OCCURS
WP.	WATERPROOF (WEATHERPROOF)
WSCT.	WAINSCOT
WT.	WEIGHT

SYMBOLS



HKIT ARCHITECTS
538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
T 510 625 9800 • F 510 625 9801 • WWW.HKIT.COM

FOOTHILL HS MODULAR CTE WORKSHOP BUILDING

JOB NO.	70125.11
DRAWN	JF
CHECKED	-
JOB CAPTAIN	-

ISSUE

	DATE	DESCRIPTION
	4/28/21	100% DD
	10/29/21	INC. 2 BID SET NOT FOR CONSTRICTION

DRAWING TITLE

GENERAL NOTES, ABBREVIATIONS, DRAWING INDEX

SCALE 12" = 1'-0"

A0.1

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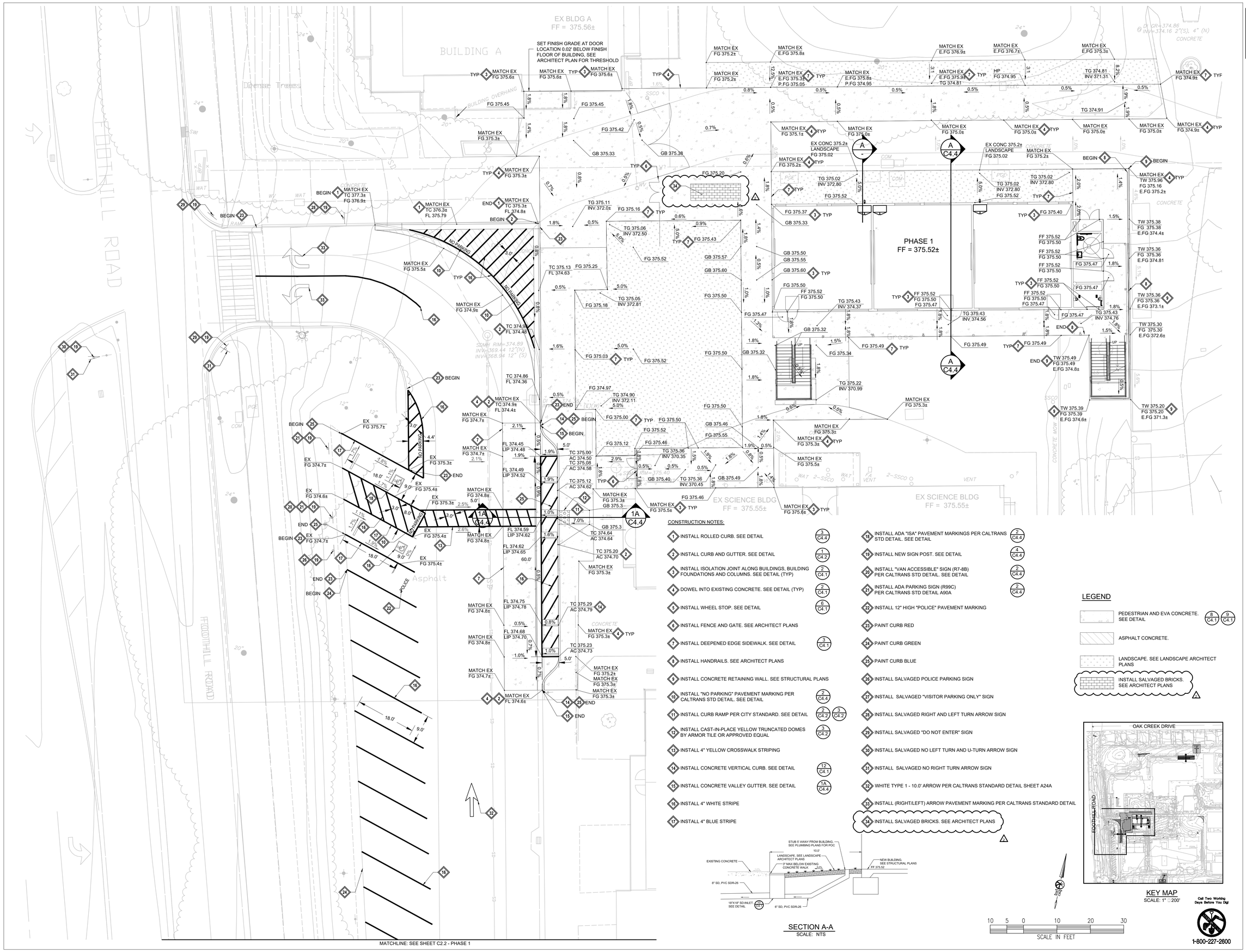
APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-118637 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/23/2020



CONSTRUCTION NOTES:

1. INSTALL ROLLED CURB. SEE DETAIL (3/C4.4)
2. INSTALL CURB AND GUTTER. SEE DETAIL (1/C4.2)
3. INSTALL ISOLATION JOINT ALONG BUILDINGS, BUILDING FOUNDATIONS AND COLUMNS. SEE DETAIL (TYP) (2/C4.1)
4. DOWEL INTO EXISTING CONCRETE. SEE DETAIL (TYP) (2/C4.1)
5. INSTALL WHEEL STOP. SEE DETAIL (8/C4.1)
6. INSTALL FENCE AND GATE. SEE ARCHITECT PLANS
7. INSTALL DEEPENED EDGE SIDEWALK. SEE DETAIL (3/C4.1)
8. INSTALL HANDRAILS. SEE ARCHITECT PLANS
9. INSTALL CONCRETE RETAINING WALL. SEE STRUCTURAL PLANS
10. INSTALL "NO PARKING" PAVEMENT MARKING PER CALTRANS STD DETAIL. SEE DETAIL (2/C4.4)
11. INSTALL CURB RAMP PER CITY STANDARD. SEE DETAIL (2/C4.2) (3/C4.2)
12. INSTALL CAST-IN-PLACE YELLOW TRUNCATED DOMES BY ARMOR TILE OR APPROVED EQUAL (3/C4.2)
13. INSTALL 4" YELLOW CROSSWALK STRIPING
14. INSTALL CONCRETE VERTICAL CURB. SEE DETAIL (12/C4.1)
15. INSTALL CONCRETE VALLEY GUTTER. SEE DETAIL (1A/C4.4)
16. INSTALL 4" WHITE STRIPE
17. INSTALL 4" BLUE STRIPE
18. INSTALL ADA "ISA" PAVEMENT MARKINGS PER CALTRANS STD DETAIL. SEE DETAIL (2/C4.4)
19. INSTALL NEW SIGN POST. SEE DETAIL (4/C4.4)
20. INSTALL "VAN ACCESSIBLE" SIGN (R7-8B) PER CALTRANS STD DETAIL. SEE DETAIL (2/C4.4)
21. INSTALL ADA PARKING SIGN (R99C) PER CALTRANS STD DETAIL A90A (2/C4.4)
22. INSTALL 12" HIGH "POLICE" PAVEMENT MARKING
23. PAINT CURB RED
24. PAINT CURB GREEN
25. PAINT CURB BLUE
26. INSTALL SALVAGED POLICE PARKING SIGN
27. INSTALL SALVAGED "VISITOR PARKING ONLY" SIGN
28. INSTALL SALVAGED RIGHT AND LEFT TURN ARROW SIGN
29. INSTALL SALVAGED "DO NOT ENTER" SIGN
30. INSTALL SALVAGED NO LEFT TURN AND U-TURN ARROW SIGN
31. INSTALL SALVAGED NO RIGHT TURN ARROW SIGN
32. WHITE TYPE 1 - 10.0' ARROW PER CALTRANS STANDARD DETAIL SHEET A24A
33. INSTALL (RIGHT/LEFT) ARROW PAVEMENT MARKING PER CALTRANS STANDARD DETAIL
34. INSTALL SALVAGED BRICKS. SEE ARCHITECT PLANS

LEGEND

- PEDESTRIAN AND EVA CONCRETE. SEE DETAIL (8/C4.1) (9/C4.1)
- ASPHALT CONCRETE.
- LANDSCAPE. SEE LANDSCAPE ARCHITECT PLANS
- INSTALL SALVAGED BRICKS. SEE ARCHITECT PLANS

SECTION A-A
SCALE: NTS

KEY MAP
SCALE: 1" = 200'

10 5 0 10 20 30
SCALE IN FEET

Call Two Working Days Before You Dig
1-800-227-2600

HKIT ARCHITECTS
538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
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Civil Engineering • Construction Management • Land Surveying
2290 Diamond Boulevard, Suite 100 Concord, CA 94520
Phone (925) 685-4589 Fax (925) 685-4838

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. BRIZZIS
No. 41828
CIVIL
STATE OF CALIFORNIA
07-08-2020

FOOTHILL HIGH SCHOOL CLASSROOM BUILDING

4375 FOOTHILL RD
PLEASANTON, CA 94588

JOB NO.	70125.01
DRAWN	KC
CHECKED	RB
JOB CAPTAIN	FH

ISSUE

△	DATE	DESCRIPTION
	01/21/19	100% SD
	10/23/19	50% CD
	11/26/19	DSA INTAKE
	07/31/20	BACKCHECK
2	09/17/20	ADDENDUM 3

GRADING PLANS-
PHASE 1

FOR REFERENCE ONLY

SCALE

C2.1

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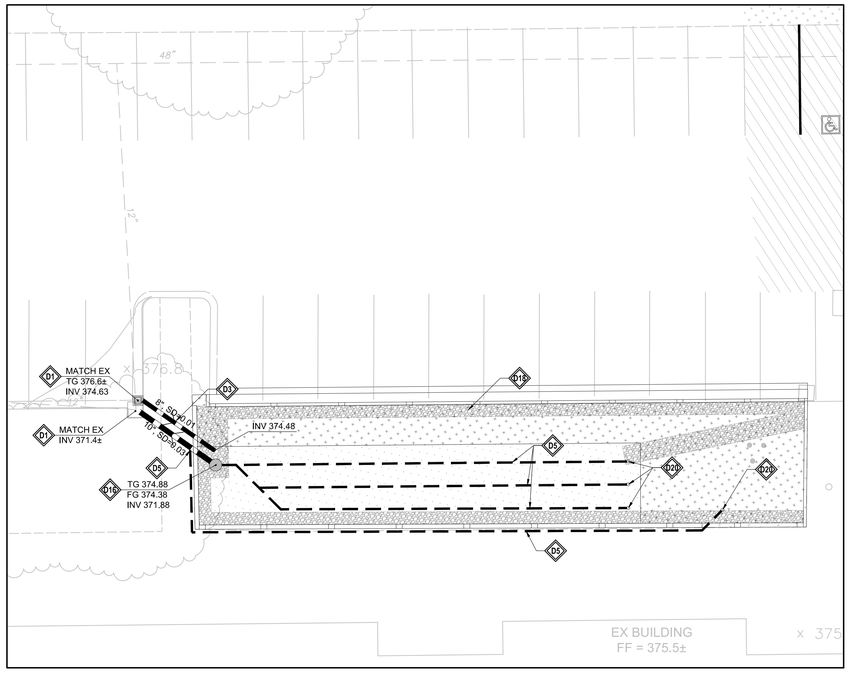
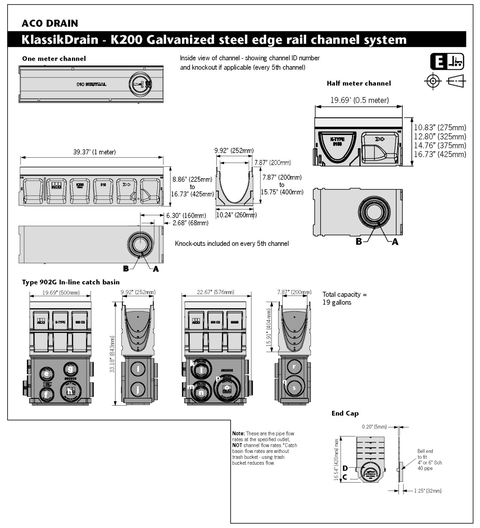
2020-09-18 SHEET ADDENDUM DETAIL





1 TYPICAL 8" TRENCH DRAIN
SCALE: NTS

CONSTRUCTION NOTES:

0 STORM DRAIN

- D1 INSTALL 12"X12" STORM DRAIN INLET WITH TRAFFIC RATED/ADA FRAME & GRATE. SEE DETAIL (10/C4.1)
- D2 INSTALL 10" PVC SDR-26
- D3 INSTALL 8" PVC SDR-26
- D4 INSTALL 6" PVC SDR-26
- D5 INSTALL 4" PVC SDR-35 PERFORATED PIPE WITH PERFORATION HOLES FACE DOWN
- D6 POC TO RAIN WATER LEADER. SEE ARCHITECT PLANS
- D7 INSTALL TRAFFIC RATED SD MANHOLE. SEE DETAIL (1/C4.3) (2/C4.3) (3/C4.3)
- D8 INSTALL 8" WIDE TRENCH DRAIN WITH ADA COMPLIANT GRATE OR APPROVED EQUAL. SEE DETAIL (1/-)
- D9 CONTRACTOR TO LOCATE AND VERIFY STORM DRAIN VERTICAL/ HORIZONTAL LOCATION, PIPE SIZE AND MATERIAL PRIOR TO CONSTRUCTION
- D10 INSTALL STORM CLEANOUT WITH LID LABELED "STORM". SEE DETAIL (4/C4.2)
- D11 POC TO EXISTING STORM DRAIN MANHOLE
- D12 STUB 5' AWAY FROM BUILDING
- D13 CEMENT SLURRY BACKFILL
- D14 INSTALL 12"X12" STORM DRAIN INLET WITH TRAFFIC RATED FRAME & GRATE WITH SOLID LID. SEE DETAIL (10/C4.1)
- D15 POC TO RAIN WATER LEADER FOR PHASE 2. SEE PHASE 2 UTILITY PLANS
- D16 INSTALL 12" DIAMETER NYLOPLAST STORM DRAIN INLET OR APPROVED EQUAL WITH DOME GRATE. SEE DETAIL (1/C4.1)
- D17 INSTALL 12" PVC SDR-26
- D18 ROCK OUTFALL ENERGY DISSIPATER.
- D19 POC TO EXISTING STORM DRAIN LINE
- D20 INSTALL SDCO ABOVE OVERFLOW GRATE 2" MIN AT BIORETENTION (4/C4.2)
- D21 INSTALL 18"X18" STORM DRAIN INLET WITH TRAFFIC RATED/ADA FRAME & GRATE. SEE DETAIL (10/C4.1)
- D22 CONNECT TRENCH DRAIN TO STORM DRAIN
- D23 INSTALL 10"X10"X4" WYE

G GAS (SEE PLUMBING PLANS AND SPECIFICATIONS)

- G1 POC TO EXISTING 2" GAS. SEE PLUMBING PLANS AND SPECIFACATIONS
- G2 INSTALL 2" GAS. SEE PLUMBING PLANS AND SPECIFACATIONS
- G3 INSTALL 2 1/2" GAS. SEE PLUMBING PLANS AND SPECIFACATIONS
- G4 INSTALL 1" GAS. SEE PLUMBING PLANS AND SPECIFACATIONS
- G5 INSTALL 2"X2"X1" TEE. SEE PLUMBING PLANS AND SPECIFACATIONS
- G6 INSTALL PRESSURE REGULATOR. SEE PLUMBING PLANS AND SPECIFACATIONS
- G7 POC TO BUILDING. SEE PLUMBING PLANS AND SPECIFACATIONS

S SEWER

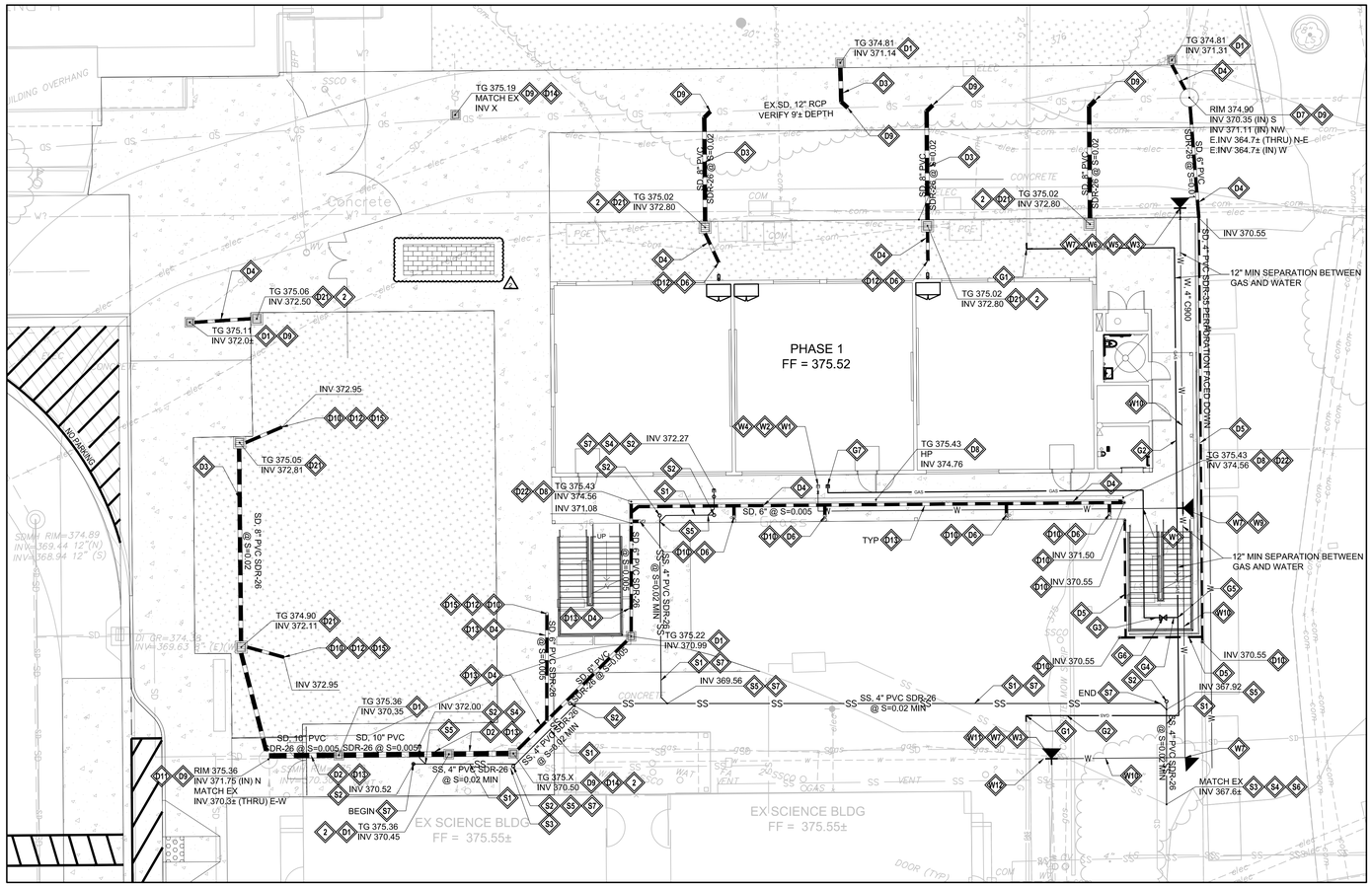
- S1 INSTALL 4" PVC SDR-26 □ S□0.02
- S2 INSTALL SEWER CLEANOUT WITH LID LABELED "SEWER". SEE DETAIL (4/C4.2)
- S3 CONTRACTOR TO LOCATE AND VERIFY SEWER VERTICAL/ HORIZONTAL LOCATION, PIPE SIZE AND MATERIAL PRIOR TO CONSTRUCTION
- S4 STUB 5' AWAY FROM BUILDING
- S5 INSTALL 4"X4"X4" WYE
- S6 POC TO EXISTING SEWER
- S7 CEMENT SLURRY BACKFILL

W WATER

- W1 INSTALL 2.5" C900 WATER LINE WITH 2.5' MINIMUM COVER
- W2 INSTALL WATER VALVE AND VALVE BOX WITH LID LABELED "WATER". SEE DETAIL (4/C4.2) (5/C4.2) (6/C4.2) (4/C4.3)
- W3 CONTRACTOR TO LOCATE AND VERIFY WATER VERTICAL/ HORIZONTAL LOCATION, PIPE SIZE AND MATERIAL PRIOR TO CONSTRUCTION
- W4 STUB 5' AWAY FROM BUILDING
- W5 INSTALL 6"X6"X4" TEE. SEE DETAIL (11/C4.1)
- W6 POC TO EXISTING WATER
- W7 INSTALL THRUST BLOCK PER CITY STANDARD. SEE DETAIL (7/C4.2)
- W8 CEMENT SLURRY BACKFILL
- W9 INSTALL 4"X4X"2.5" TEE. SEE DETAIL (11/C4.1)
- W10 INSTALL 4" C900 WATER LINE WITH 2.5' MINIMUM COVER
- W11 INSTALL 4"X4"X4" TEE. SEE DETAIL (11/C4.1)
- W12 INSTALL 4" TO 2.5" REDUCER

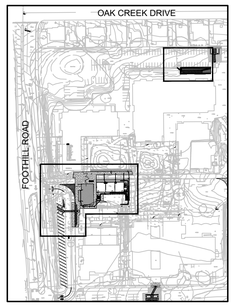
 # GENERAL

- 1 ELECTRICAL. SEE ELECTRICAL PLANS (TYP)
- 2 CONTRACTOR TO LOCATE AND VERIFY ELECTRICAL VERTICAL/ HORIZONTAL LOCATION PRIOR TO STORM DRAIN CONSTRUCTION



LEGEND

- PEDESTRIAN AND EVA CONCRETE. SEE DETAIL (8/C4.1) (9/C4.1)
- ASPHALT CONCRETE. SEE DETAIL (5/C4.4)
- BIORETENTION
- LANDSCAPE. SEE LANDSCAPE ARCHITECT PLANS
- INSTALL SALVAGED BRICKS. SEE ARCHITECT PLANS



KEY MAP
SCALE: 1" □ 200'

10 5 0 10 20 30
SCALE IN FEET

Call Two Working Days Before You Dig
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-118637 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/23/2020

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Bellecci & Associates, inc.
Civil Engineering • Construction Management • Land Surveying
2250 Diamond Boulevard, Suite 100 Concord, CA 94520
Phone (925) 685-4589 Fax (925) 685-4838

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. BRICETI
No. 41826
CIVIL
STATE OF CALIFORNIA
07-08-2020

FOOTHILL HIGH SCHOOL CLASSROOM BUILDING

4375 FOOTHILL RD
PLEASANTON, CA 94588

JOB NO.	70125.01
DRAWN	KC
CHECKED	RB
JOB CAPTAIN	FH

ISSUE

△	DATE	DESCRIPTION
	01/21/19	100□ SD
	10/23/19	50□ CD
	11/26/19	DSA INTAKE
	07/31/20	BACKCHECK
2	09/17/20	ADDENDUM 3

UTILITY PLAN-
PHASE 1
FOR REFERENCE ONLY

SCALE

C3.1

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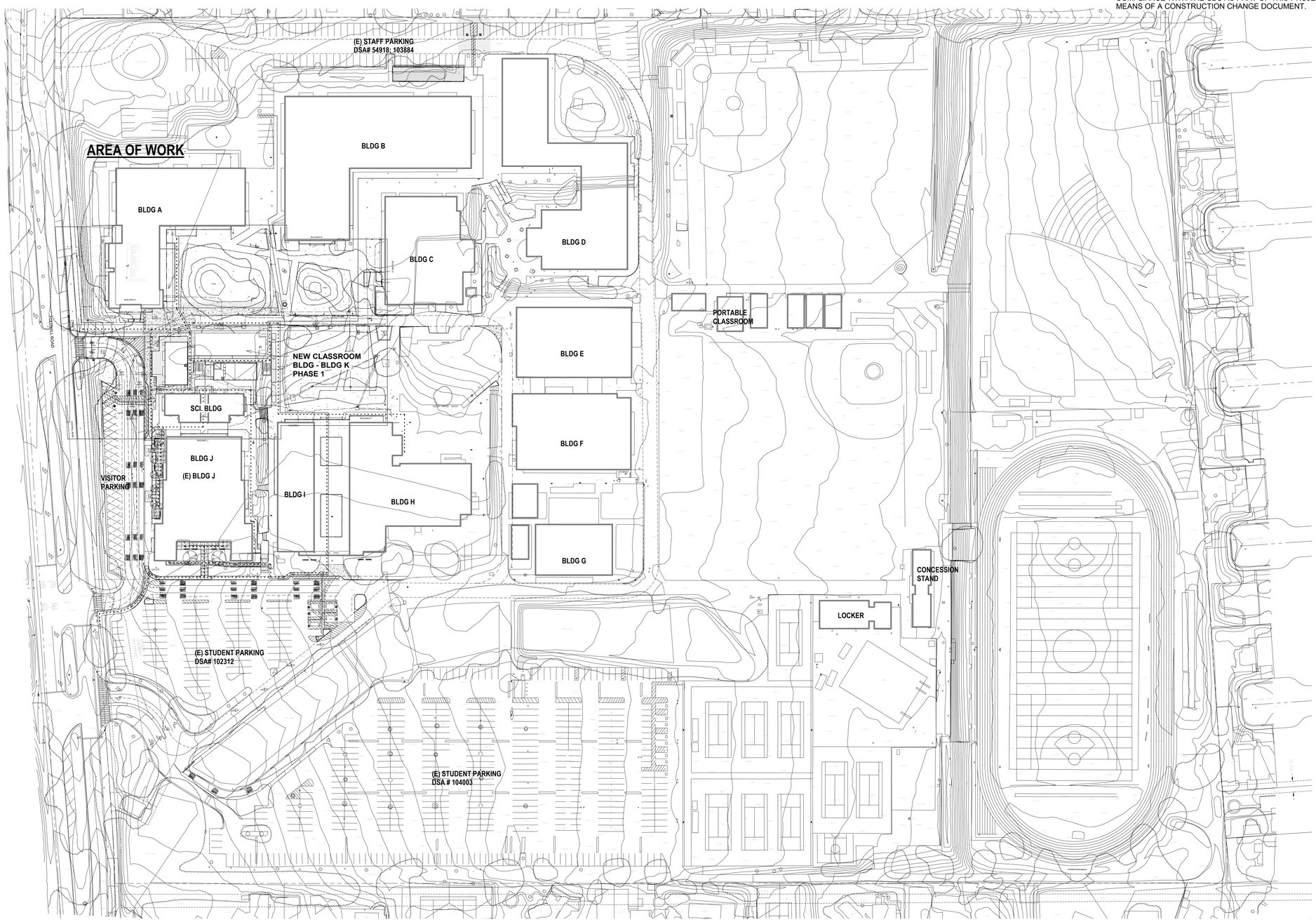

1 Site
1" = 60'-0"

PATH OF TRAVEL STATEMENT:

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPILANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT 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 POT 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 PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

GENERAL NOTES

A. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND LANDSCAPE DRAWINGS FOR RESPECTED SITE WORK
B. SEE ENLARGED SITE PLANS A1.1 AND A1.2 FOR ADDITIONAL ACCESS AND FIRE LIFE AND SAFETY CODE COMPLIANCE INFORMATION

SHEET NOTES

1. (E) ACCESSIBLE CURB RAMP , UNDER DSA# 01-103884
2. (E)ACCESSIBLE PARKING STALLS WITH ACCESS AISLE AND SIGNAGE UNDER DSA# 01-104003
3. (E) ACCESSIBLE CURB RAMP , UNDER DSA# 01-102312
4. CONC. PAVING. EDGE CONFORM TO (E) PAVING. S.C.D.
5. BIO RETENTION BASIN, S.C.D. AND S.L.D.
6. ELEVATOR
7. ACCESSIBLE VAN PARKING STALL.
8. FENCE AND GATES. S.L.D.
9. TOW AWAY SIGN. UNDER DSA #01-102312
10. (E)ACCESSIBLE PARKING STALL, DSA #01-102312

EXISTING BUILDING INFORMATION

BLDG A (ADMIN. / CLASSROOM)
DSA #: 34899, 01-102312
OCCUPANCY: B / E
CONSTRUCTION TYPE: VB (NS)

BLDG B (CLASSROOM)
DSA #: 34899
OCCUPANCY: E
CONSTRUCTION TYPE: VB(NS)

BLDG C (LIBRARY)
DSA #: 34899, 01-102312
OCCUPANCY: A-3
CONSTRUCTION TYPE: VB(NS)

BLDG D (CLASSROOM)
DSA #: 01-103884, 01-103815
OCCUPANCY: E
CONSTRUCTION TYPE: VB(S)

BLDG E (GYM)
DSA #: 37089
OCCUPANCY: A-3
CONSTRUCTION TYPE: VA(NS)

BLDG F (LOCKER / CLASSROOM)
DSA #: 34899
OCCUPANCY: E
CONSTRUCTION TYPE: VA (NS)

BLDG G (GYM)
DSA #: 01-100262
OCCUPANCY: A-3
CONSTRUCTION TYPE: VA

BLDG H (MULTI PURPOSE / CLASSROOM)
DSA #: 34899, 59418
OCCUPANCY: E
CONSTRUCTION TYPE: VA/VB

BLDG I (CLASSROOM)
DSA #: 37089, 59418
OCCUPANCY: E
CONSTRUCTION TYPE: VB(NS)

BLDG J (SCI. CLASSROOM)
DSA #: 37089, 01-102312
OCCUPANCY: E
CONSTRUCTION TYPE: VB
(SPRINKLER UNDER THIS APPROVAL)

SCI. BUILDING
DSA #: 01-108253
OCCUPANCY: E
CONSTRUCTION TYPE: VB
(SPRINKLER UNDER THIS APPROVAL)

PORTABLE CLASSROOM
DSA #: 01-107556
OCCUPANCY: E
CONSTRUCTION TYPE: VB(NS)

CONCESSION STAND
DSA #: 57572
OCCUPANCY: E
CONSTRUCTION TYPE: VB

LOCKER
DSA #: 01-104003
OCCUPANCY: E
CONSTRUCTION TYPE: VB

PARKING CALCULATION

PER CBC, SECTION 11B-208, TABLE 11B-208.2

VISITOR PARKING LOT:
23 (E) PARKING STALLS REMOVED. PROVIDED STALLS: 24 IN TOTAL
REQUIRED ACCESSIBLE PARKING STALLS: 1 ACCESSIBLE + 1 VAN PARKING
PROVIDED ACCESSIBLE PARKING STALLS: 1 ACCESSIBLE + 1 VAN PARKING

STAFF PARKING LOT:
128 STALLS IN TOTAL. (1 STALL REMOVED.)
REQUIRED ACCESSIBLE PARKING STALLS: 4 ACCESSIBLE + 1 VAN PARKING
PROVIDED ACCESSIBLE PARKING STALLS: 4 ACCESSIBLE + 1 VAN PARKING

STUDENT PARKING LOT:
584 STALLS IN TOTAL
REQUIRED ACCESSIBLE PARKING STALLS: 10 ACCESSIBLE + 2 VAN PARKING
PROVIDED ACCESSIBLE PARKING STALLS: 10 ACCESSIBLE + 3 VAN PARKING

LEGEND

PATH OF TRAVEL. ACCESSIBLE ROUTE AS INDICATED ON PLANS IS A BARRIER-FREE ACCESS ROUTE WITH OUR ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESS PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTIONS FROM WALL AND ABOVE 27" LESS THAN 80". G.C. TO VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL. ACCESSIBLE PATH OF TRAVLE CONTAINS "PASSING SPACES" A MINIMUM OF 60" X 60", LOCATED NOT GREATER THAN 200' APART. SEGMENTS OF ACCESSIBLE PATH OF TRAVEL HAVING CONTINUOUS GRADIENTS HAVE LEVEL AREAS, A MINIMUM OF 60" LONG,NOT GREATER THAN 400' APART. THE ARCHITECT HAS VERIFIED TO THE EXTENT FEASIBLE THAT THE PATH OF TRAVEL INDICATED COMPLIES WITH THE DEFINITION GIVEN.

20' FIRE LANE

(E) FIRE LANE

(E) BUILDINGS NOT IN SCOPE OF WORK

NEW CLASSROOM BUILDING IN SCOPE OF WORK

(E) BUILDING TO BE UPGRADED WITH AUTOMATIC FIRE SPRINKLER SYSTEM

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538 NINTH STREET SUITE 240 • OAKLAND, CA 94607
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FOOTHILL HS MODULAR CTE WORKSHOP BUILDING

JOB NO.	70125.11
DRAWN	-
CHECKED	-
JOB CAPTAIN	-

ISSUE

△	DATE	DESCRIPTION
	4/28/21	100% DD
	10/29/21	INC. 2 BID SET NOT FOR CONSTRICTION

DRAWING TITLE
SITE PLAN

SCALE As indicated

A1.01

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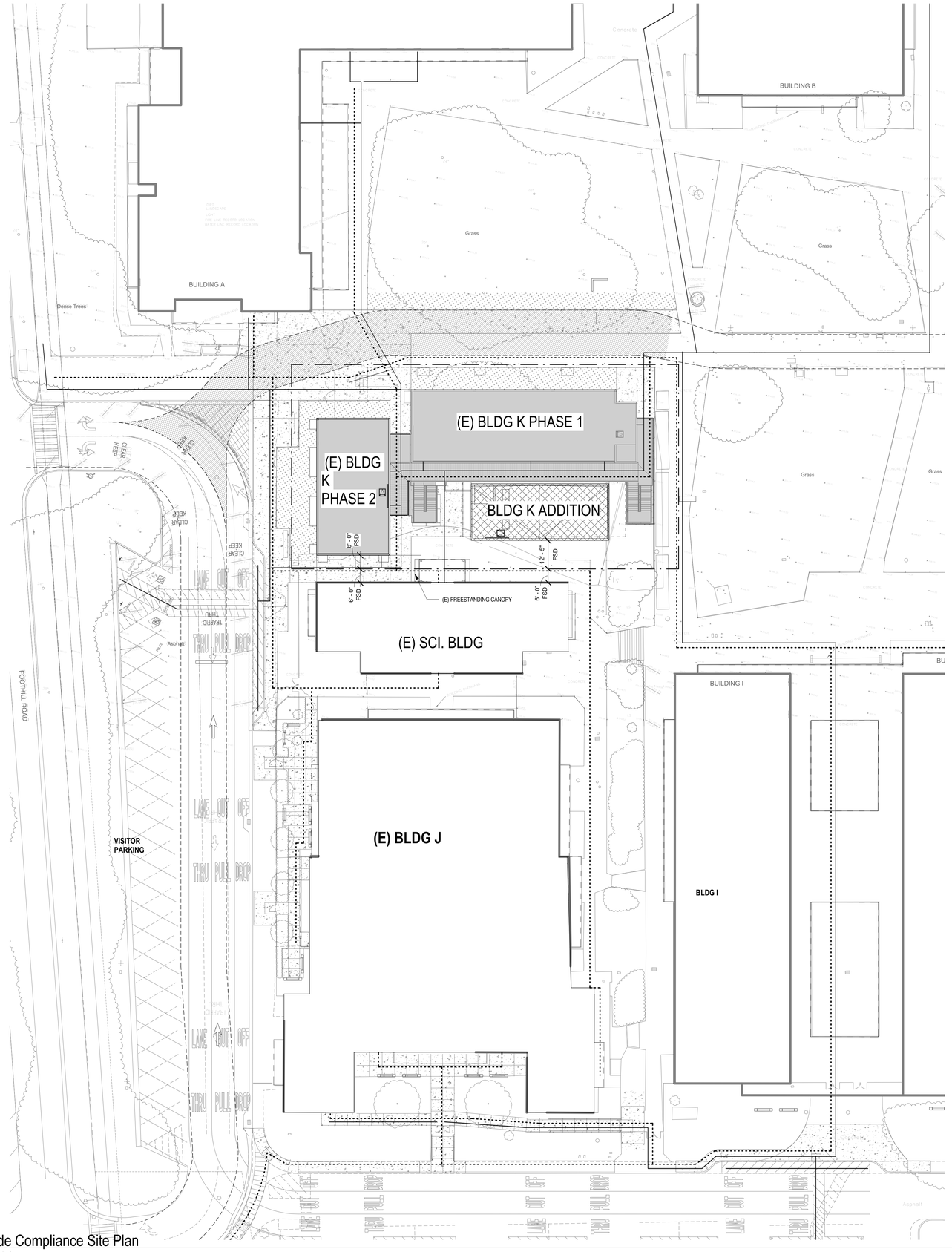

1 Code Compliance Site Plan
1" = 20'-0"

BLDG K CODE SUMMARY

CURRENT DSA APPLICATION

BUILDING CONSTRUCTION TYPE: V-B, W/ AUTOMATIC SPRINKLER
BUILDING STORIES: 2
OCCUPANCY GROUP: E
TOTAL FLOOR AREA: 12,122 SF (PHASE 1 + PHASE 2)
2,985 SF (NEW MODULAR BLDG)

(SEE FP0.1 FOR FIRE FLOW CALCULATION PER CFC TABLE BB105.1)

BUILDING HEIGHT:
ALLOWABLE (CBC TABLE 504.3) : 60' - 0"
PROVIDED: 35' - 2"

BUILDING AREA:
ALLOWABLE (CBC TABLE 506.2): 9,500 SF
PROVIDED: PHASE 1: 3,148 SF (1ST FLOOR)
1,010 SF (OUTDOOR WALKWAY)
348 SF (STAIRS)

PHASE 2: 1,944 SF (1ST FLOOR)
306 SF (OUTDOOR WALKWAY)

NEW MODULAR BLDG. 1,493 SF (1ST FLOOR)

IN TOTAL: 8,249 SF (1ST FLOOR) , OK

FIRE-RESISTANCE RATING (TABLE 601)
PRIMARY STRUCTURAL FRAME 0
BEARING WALL (INTERIOR) 0
NONBEARING WALL & PARTITIONS (INTERIOR) 0
FLOOR, ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS 0

EXTERIOR WALL & PARTITIONS (TABLE 602)
5'-0" <= FIRE SEPARATION DISTANCE < 10'-0" : 1 HR
FIRE SEPARATION DISTANCE > 10'-0" : 0 HR

NEW CLASSROOM BLDG - BLDG K BUILDING CODE DATA

BASED ON CBC 2016

BETWEEN (E) BLDG J AND BUILDING K:

TABLE 602
REQUIRED FIRE SEPARATION DISTANCE FOR TYPE VB E OCCUPANCY 1 HOUR EXTERIOR WALL = 5'-0" MIN.

REQUIRED FIRE SEPARATION DISTANCE FOR TYPE VB E OCCUPANCY 0 HOUR EXTERIOR WALL= 10'-0" MIN.

PROVIDED FIRE SEPARATION DISTANCE **FOR EXISTING BUILDING J**, TYPE VB E OCCUPANCY 1-HOUR EXTERIOR WALL = 6'-0"., SEE DRAWING

PROVIDED FIRE SEPARATION DISTANCE **FOR (E) BLDG K PHASE 2**, TYPE VB E OCCUPANCY 1-HOUR EXTERIOR WALL = 6'-0", SEE DRAWING

PROVIDED FIRE SEPARATION DISTANCE **FOR BLDG K ADDITION**, TYPE VB E OCCUPANCY WITH 0-HOUR EXTERIOR WALL = 12'-5", SEE DRAWING

TABLE 705.8
REQUIRED FIRE SEPARATION DISTANCE FOR UNPROTECTED OPENINGS IN A SPRINKLERED BUILDING WITH UP TO 25% OPENING AREA = 5'-0" MIN.

PROVIDED FIRE SEPARATION DISTANCE FOR EXISTING BUILDING J FOR UNPROTECTED OPENINGS IN A SPRINKLERED BUILDING WITH UP TO 25% OPENING AREA = 6'-0", SEE DRAWING

REQUIRED FIRE SEPARATION DISTANCE FOR BUILDING K ADDITION FOR UNPROTECTED OPENINGS IN A SPRINKLERED BLDG WITH UP TP 45% OPENING AREA = 10'-0" MIN.

PROVIDED FIRE SEPARATION DISTANCE FOR BUILDING K ADDITION FOR UNPROTECTED OPENINGS IN A SPRINKLERED BLDG WITH UP TP 45% OPENING AREA = 12'-0", SEE DRAWING

Projections shall not extend any closer to the line used to determine the fire separation distance than shown in Table 705.2.

TABLE 705.2 MINIMUM DISTANCE OF PROJECTIONS

FSD	MINIMUM DISTANCE FROM LINE USED TO DETERMINE FSD
0'-2'	PROJECTIONS NOT PERMITTED
>2'-3'	24 INCHES
>3'-30'	24 INCHES PLUS 8 INCHES FOR EVERY FOOT BEYOND 3' OR FRACTION THEREOF

BETWEEN (E) BLDG J AND NEW BUILDING PHASE 2:

TABLE 602
REQUIRED FIRE SEPARATION DISTANCE FOR TYPE VB E OCCUPANCY 1 HOUR = 5'-0" MIN.

PROVIDED FIRE SEPARATION DISTANCE **FOR EXISTING BUILDING J**, TYPE VB E OCCUPANCY WITH 1-HOUR EXTERIOR WALL = 5'-0" MIIN., SEE DRAWING

PROVIDED FIRE SEPARATION DISTANCE **FOR NEW CLASSROOM BUILDING**, TYPE VB E OCCUPANCY WITH 1-HOUR EXTERIOR WALL =5'-0" MIIN., SEE DRAWING

TABLE 705.8
REQUIRED FIRE SEPARATION DISTANCE FOR PROTECTED SPRINKLERED WALL WITH UP TO 25% OPENING AREA = 5'-0" MIN.

PROVIDED FIRE SEPARATION DISTANCE FOR EXISITNG BLDG J = 5'-0"MIN, LESS THAN 25% OF SPRINKLERED, PROTECTED OPENINGS ARE PROVIDED AT WALL DIRECTLY ACROSS FROM NEW CLASSROOM BUILDING .

PROVIDED FIRE SEPARATION DISTANCE FOR NEW CLASSROOM BUILDING = 5'-0"MIN, LESS THAN 25% OF SPRINKLERED, PROTECTED OPENINGS ARE PROVIDED AT WALL DIRECTLY ACROSS FROM NEW CLASSROOM BUILDING .

GENERAL NOTES

A. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND LANDSCAPE DRAWINGS FOR RESPECTED SITE WORK
B. SEE ENLARGED SITE PLANS A1.1 AND A1.2 FOR ADDITIONAL ACCESS AND FIRE LIFE AND SAFETY CODE COMPLIANCE INFORMATION

SHEET NOTES

LEGEND

PATH OF TRAVEL. ACCESSIBLE ROUTE AS INDICATED ON PLANS IS A BARRIER-FREE ACCESS ROUTE WITH OUR ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESS PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTIONS FROM WALL AND ABOVE 27" LESS THAN 80". G.C. TO VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL. ACCESSIBLE PATH OF TRAVLE CONTAINS "PASSING SPACES" A MINIMUM OF 60" X 60", LOCATED NOT GREATER THAN 200' APART. SEGMENTS OF ACCESSIBLE PATH OF TRAVEL HAVING CONTINUOUS GRADIENTS HAVE LEVEL AREAS, A MINIUMUM OF 60" LONG.NOT GREATER THAN 400' APART. THE ARCHITECT HAS VERIFIED TO THE EXTENT FEASIBLE THAT THE PATH OF TRAVEL INDICATED COMPLIES WITH THE DEFINITION GIVEN.

20' FIRE LANE

(E) FIRE LANE

(E) BUILDINGS NOT IN SCOPE OF WORK

(E) BUILDING CURRENTLY UNDER CONSTRUCTION

NEW CLASSROOM BUILDING IN SCOPE OF WORK

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FOOTHILL HS MODULAR CTE WORKSHOP BUILDING

JOB NO. 70125.11
DRAWN Author
CHECKED Checker
JOB CAPTAIN Approver

ISSUE

	DATE	DESCRIPTION
	4/28/21	100% DD
	10/29/21	INC. 2 BID SET NOT FOR CONSTRICTION

DRAWING TITLE
ENLARGED CODE COMPLIANCE SITE PLAN

SCALE As indicated

A1.02

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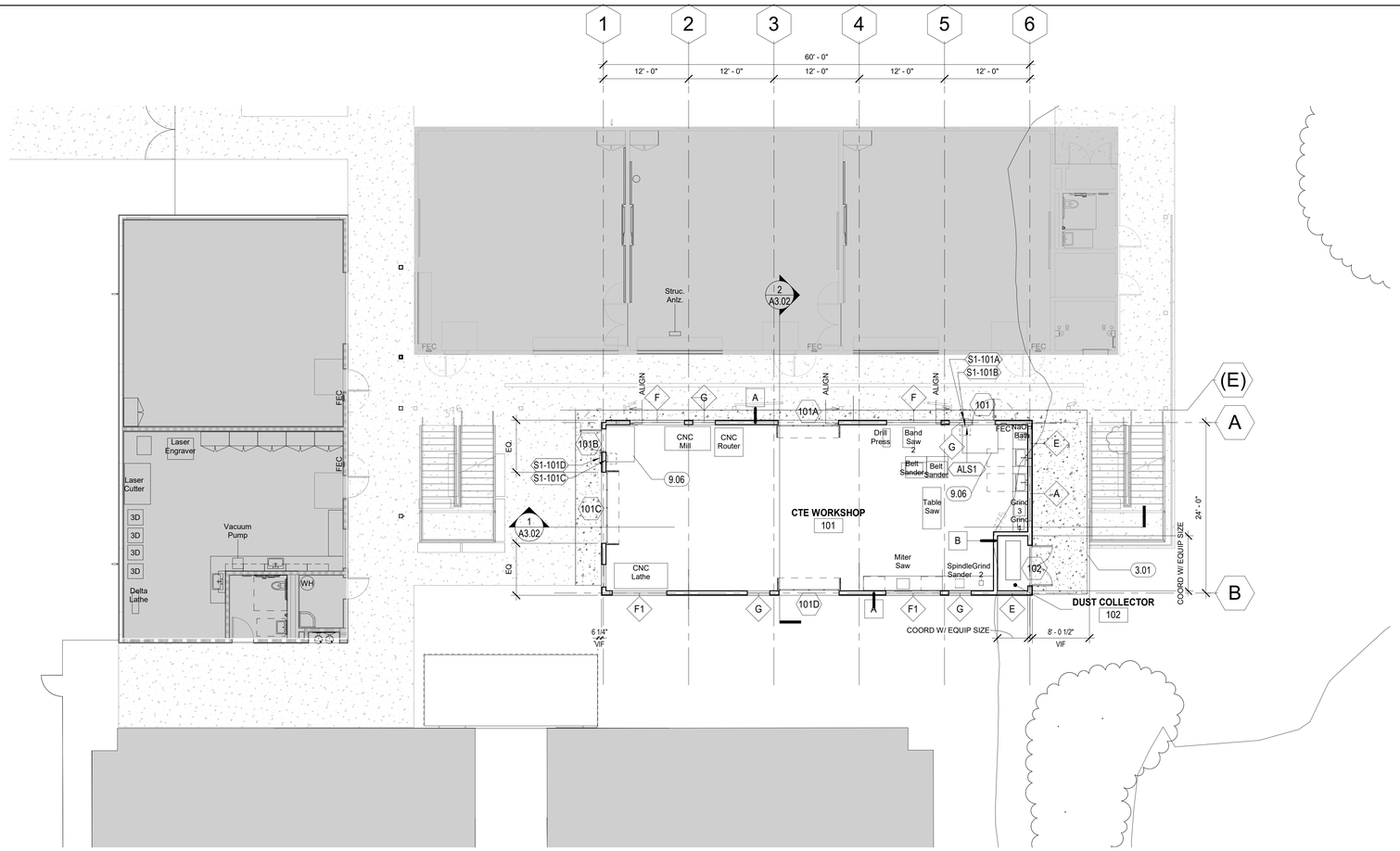
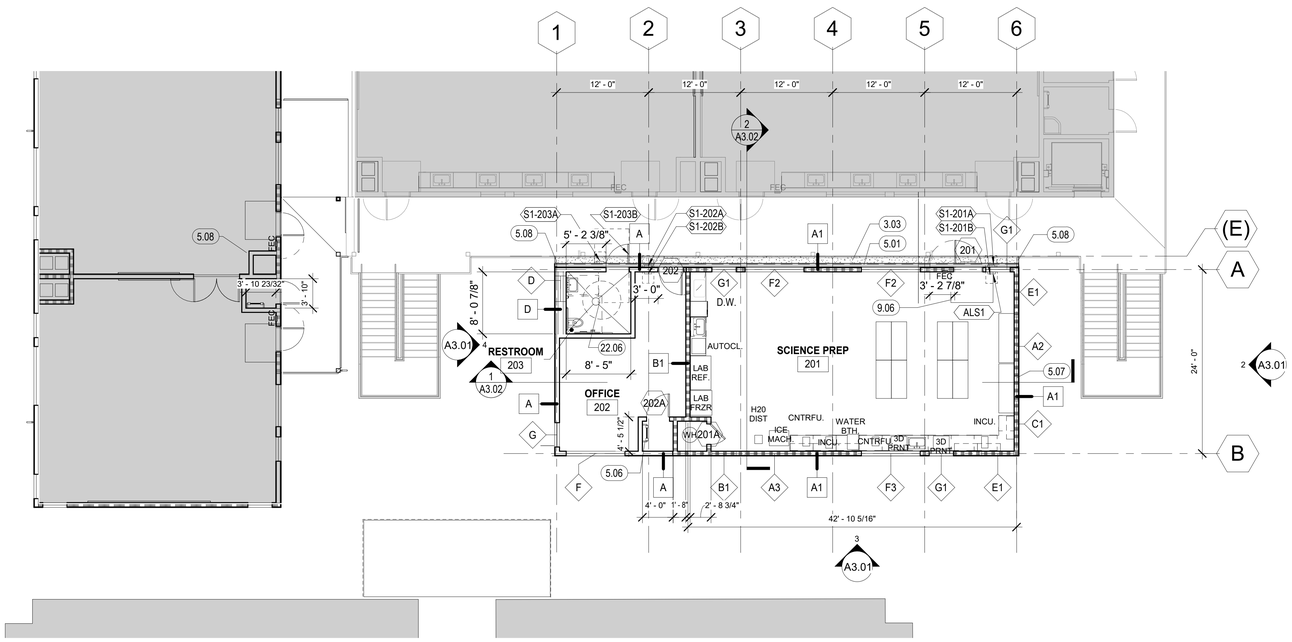


1 FIRST FLOOR PLAN
1/8" = 1'-0"



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

GENERAL NOTES

A. SEE FLOOR PLANS AND SHEET A8.01 FOR WALL TYPES AND ASSEMBLIES.
B. SEE SHEET A10.10 FOR WINDOW, DOOR AND HARDWARE SCHEDULE, AND SIGNAGE SCHEDULE
C. SEE SHEET A2.02 FOR INTERIOR AND EXTERIOR FINISH SCHEDULE
D. SEE CIVIL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION AND LANDSCAPE DRAWINGS FOR COMPLETE SCOPE OF WORK
E. SEE SHEET A4.01 FOR SPECIAL EQUIPMENT SCHEDULE

SHEET NOTES

3.01	CONC. PAVING BY INCREMENT 1 GC, S.C.D.
3.03	EXTENSION OF CONCRETE PATHWAY BY INCREMENT 1 GC
5.01	SEISMIC JOINT WITH ALUM COVER
5.06	FIXED LADDER WITH HATCH
5.07	PROVIDE BLOCKING IN WALL FOR FUTURE FULL HEIGHT SHELVES
5.08	VERTICAL SEISMIC JOINT ALUM COVER AT GUARDRAIL
9.06	4'X4' WALK-OFF CARPET MAT, TYP.
22.06	FLOOR DRAIN, S.P.D.

LEGEND

DOOR CLEARANCE AREA

FIRE EXTINGUISHER CABINET

1t — WINDOW TYPE TAG - SEE WINDOW SCHEDULE

1 HR FIRE RATED EXTERIOR WALL

1 HR FIRE BARRIER WALL

SX-XXX — SIGNAGE - SEE SIGNAGE SCHEDULE

18" X 18" MIN. CLR FLOOR SPACE CENTERED ON TACTILE CHARACTERS

D.S. — DOWNSPOUT

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FOOTHILL HS MODULAR CTE WORKSHOP BUILDING

JOB NO.	70125.11
DRAWN	-
CHECKED	-
JOB CAPTAIN	-

ISSUE

	DATE	DESCRIPTION
	4/28/21	100% DD
	10/29/21	INC. 2 BID SET NOT FOR CONSTRICTION

DRAWING TITLE
FIRST & SECOND FLOOR PLAN PLANS

SCALE 1/8" = 1'-0"

A2.01

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INTERIOR FINISH SCHEDULE - PHASE 1

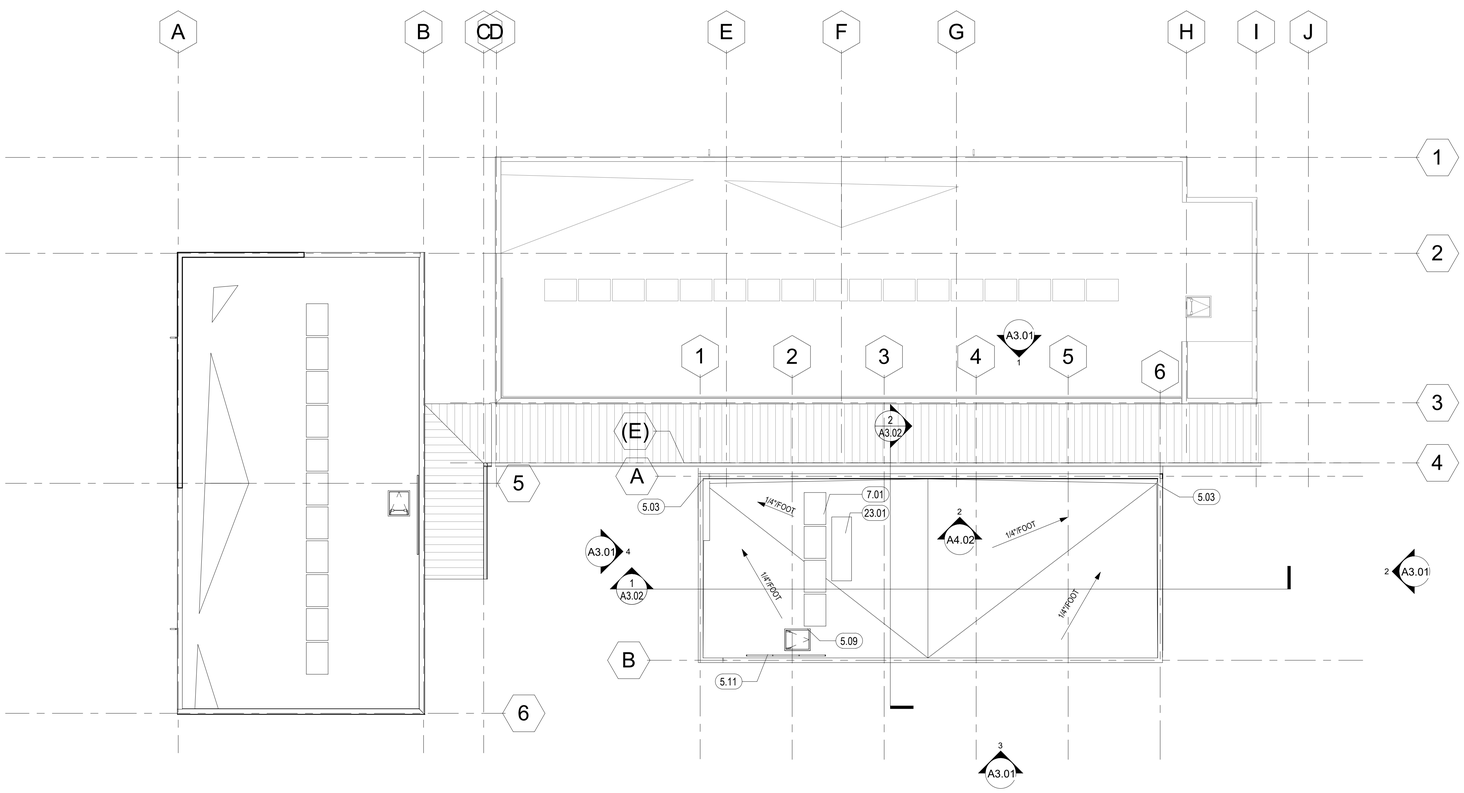
ROOM NO.	ROOM NAME	FLOOR			BASE		WALL			CEILING			CABINETS AND MISCELLANEOUS			REMARKS
		MATERIAL	FINISH	COLOR/ MARK	MATERIAL	COLOR / MARK	MATERIAL	FINISH	COLOR MARK	MATERIAL	FINISH	COLOR MARK	ITEM	MATERIAL	COLOR MARK	
101	CTE WORKSHOP	CONC	SEALED	CF-1	RUBBER	B-1	HIGH IMPACT GWB	SG	P-1	OPEN TO STRUCTURE	N/A	N/A	CASEWORK/COUNTER TOP	PLAM/PLAM	WT	
102	DUST COLLECTOR	EPOXY		EP-1	EPOXY	EP-1	GWB/FRP	SG	P-1	OPEN TO STRUCTURE	N/A	N/A				
201	SCIENCE PREP	RES TILE/CPT WALK OFF		RT-1, CP-2	RUBBER	B-1	HIGH IMPACT GWB	ES	P-1	ACOUSTICAL CEILING PANEL		ACP-1	CASEWORK/COUNTER TOP	PLAM/PLAM	PL-1/PL-2	
202	OFFICE	CPT		CP-1	RUBBER	B-1	GWB	ES	P-1	ACOUSTICAL CEILING PANEL		ACP-1				
202A	ROOF ACS	EPOXY		EP-1	EPOXY	EP-1	HIGH IMPACT GWB	SG	P-1	OPEN TO STRUCTURE	N/A	N/A				
203	RESTROOM	EPOXY		EP-1	EPOXY	EP-1	GWB/FRP	SG	P-1	GWB	SG	P-1				

INTERIOR FINISHES LEGEND	
COLOR/ MARK	DESCRIPTION
CONCRETE	
CF-1	SEALED CONCRETE
PLASTIC LAMINATE	
PL-1	PLASTIC LAMINATE - CASEWORK- FORMICA, 8905 "WAXED MAPLE"
PL-2	PLASTIC LAMINATE - COUNTERTOP- FORMICA, 5353 "NOCTURNE"
CEILINGS	
ACP-1	TYP. ACOUSTIC CEILING PANEL, USg FINE FISSURED TEGULAR
RESILIENT BASE	
B-1	TARKETT/JOHNSONITE 4" COVED BASE, BLACK 40, 4" HEIGHT
RESILIENT TILE	
RT-1	FORBO MARMOLEUM MCT IN "OTTER" MCT3631
RT-2	FORBO MARMOLEUM MCT IN "ANGORA" MCT3630
INTERIOR PAINT	
P-1	TYPICAL WALL/CEILING PAINT, KELLY MOORE 27 BONE
EPOXY FLOOR	
EP-1	EPOXY FLOOR
CARPET	
CP-1	NOT USED
CP-2	TARKETT/TANDUS CENTIVA ABRASIVE ACTION II CHARCOAL 19100
SPECIALTIES	
SN-1	SIGNAGE
FRP-1	FIBERGLASS REINFORCED PLASTIC @ TOILET ROOMS AND CUSTODIAL AREAS
WT-1	CRANK OPERATED FLEXSHADES BY DRAPER IN OYSTER/PEARLGRAY

EXTERIOR FINISH SCHEDULE

MISCELLANEOUS				
LOCATION / ELEMENT	MATERIAL	FINISH	COLOR	REMARKS
ROOF	SINGLE-PLY ROOFING SYSTEM	MFR		
ROOF HATCH	STEEL	MFR		
EXHAUST FAN / VENTS	STEEL	PAINT SG		
JOINTS FLASHING	GALV. STEEL METAL	PAINT SG		
PARAPET COPING	GALV. STEEL METAL	PAINT SG		
GUTTER	GALV. STEEL METAL	PAINT SG		
CONDUCTOR HEAD / R.W.L.	GALV. STEEL METAL/SCHEDULE 40	PAINT SG		
WALL	CEMENT PLASTER	INT. ACRYLIC		MATCH INTEGRAL COLOR TO PAINT COLOR TBD
SOFFIT	CEMENT PLASTER	INT. ACRYLIC		
DUCT, PIPES	METAL	PAINT SG		
WALL CURB	CONC.	SACKED		

NOTE: 1. ALL EXTERIOR WINDOW FRAMES TO BE FIELD PAINTED COLOR AS SELECTED BY ARCHITECT
2. ALL EXTERIOR METAL, STEEL, AND SHEET METAL TO BE GALVANIZED UNLESS OTHERWISE NOTED AS ALUMINUM OR STAINLESS STEEL



1 Roof
1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

A. SEE SHEET A8.01 FOR ROOF ASSEMBLY
B. SEE CIVIL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION AND LANDSCAPE DRAWINGS FOR COMPLETE SCOPE OF WORK

ROOF PLAN SHEET NOTES

5.03	ROOF EDGE SCUPPER AND DOWNSPOUT
5.09	ROOF HATCH
5.11	GALV STEEL RAILING ATTACH TO PARAPET
7.01	WALK PADS
23.01	MECHANICAL EQUIPMENT S.M.D.

ROOF PLAN LEGEND

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DRAWN	Author
CHECKED	Checker
JOB CAPTAIN	Approver

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DRAWING TITLE
ROOF PLAN

SCALE As indicated

A2.02

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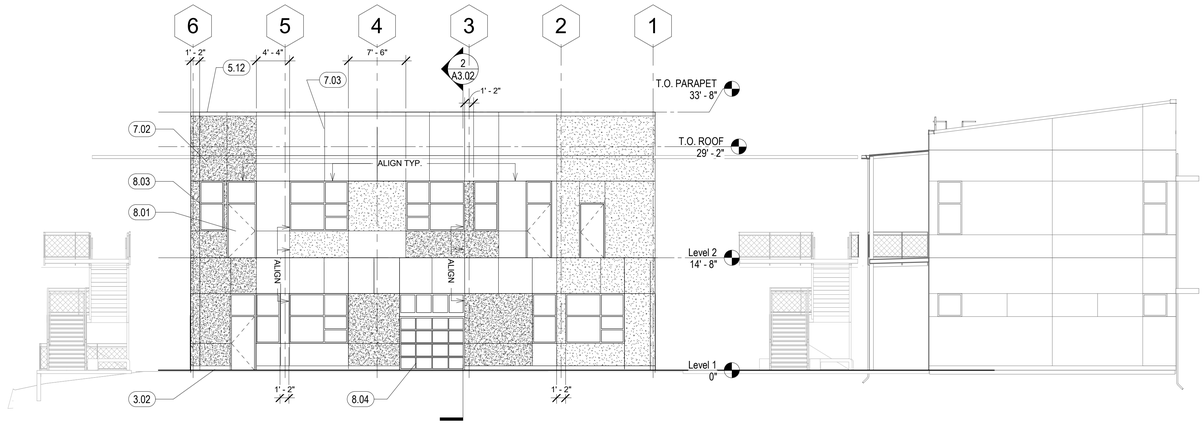

1 NORTH ELEVATION
1/8" = 1'-0"

FEET
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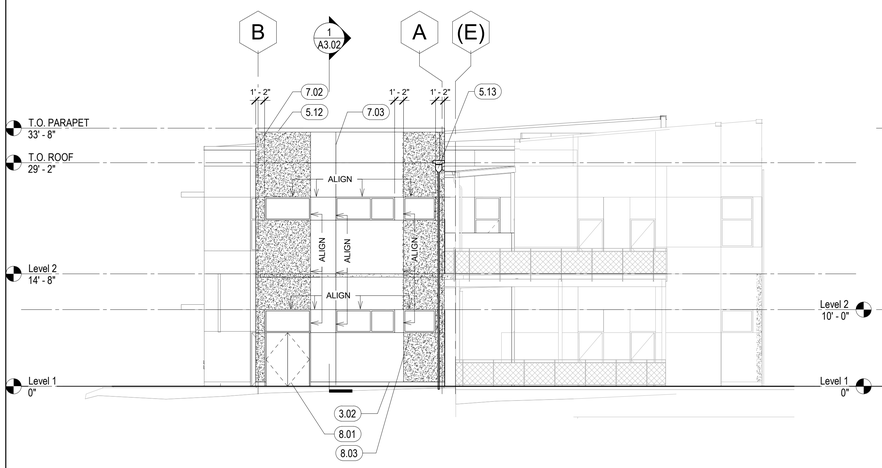

2 East
1/8" = 1'-0"

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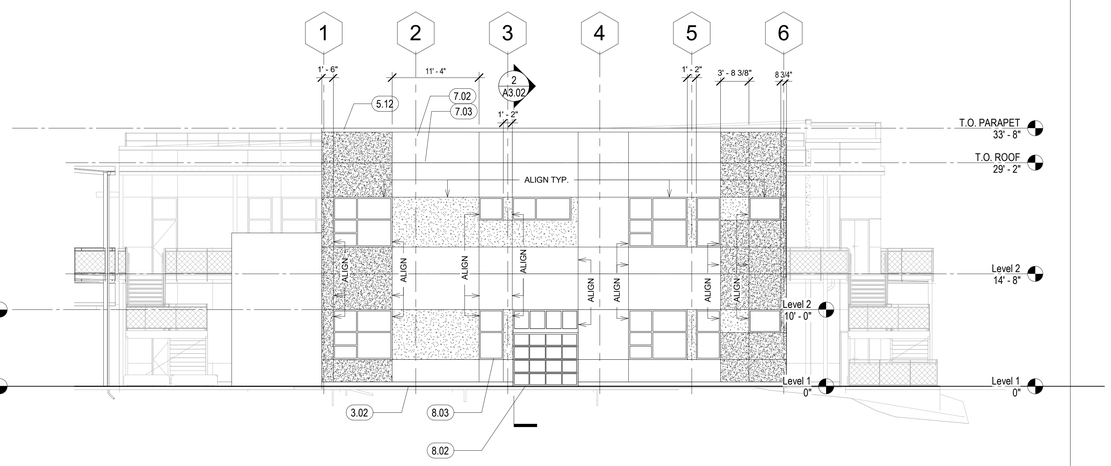
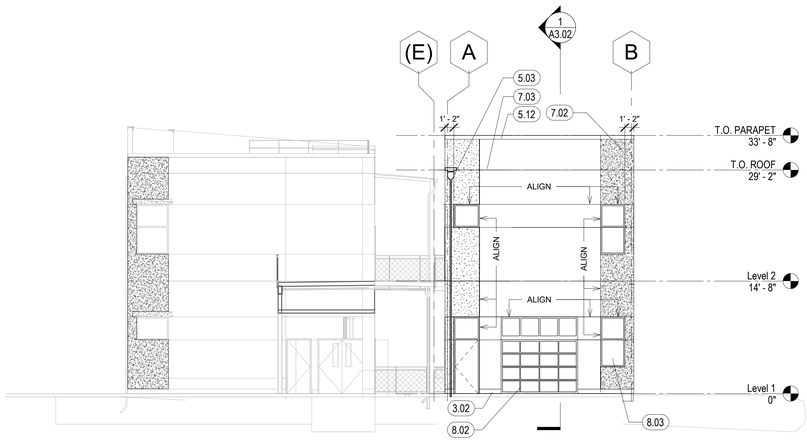


3 South
1/8" = 1'-0"

FEET
0 4 8 16



4 West
1/8" = 1'-0"

FEET
0 4 8 16

GENERAL NOTES

A. SEE FLOOR PLANS AND SHEET A8.1 FOR WALL TYPES.

SHEET NOTES

3.02	CONCRETE CURB
5.03	ROOF EDGE SCUPPER AND DOWNSPOUT
5.12	GSM COPING, PREFINISHED
5.13	SCUPPER W/ COLLECTOR AND R.W.L. - PAINT TO MATCH ADJACENT WALL
7.02	CEMENT PLASTER W/ ACRYLIC TOP COAT
7.03	CEMENT PLASTER CONTROL JOINT
8.01	HM FRAME WITH FRP DOOR
8.02	ALUMINUM STOREFRONT, SEE ALUM STOREFRONT SCHEDULE
8.03	ALUM WINDOW, TYP. U.O.N. SEE WINDOW SCHEDULE
8.04	STACK SECTIONAL DOOR WITH ALUM STOREFRONT ABOVE

COLOR LEGEND

P-5	DARK GRAY
P-6	BLACK
P-7	GREEN
P-8	LIGHT GRAY

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JOB CAPTAIN -

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DRAWING TITLE
EXTERIOR ELEVATIONS

SCALE 1/8" = 1'-0"

A3.01

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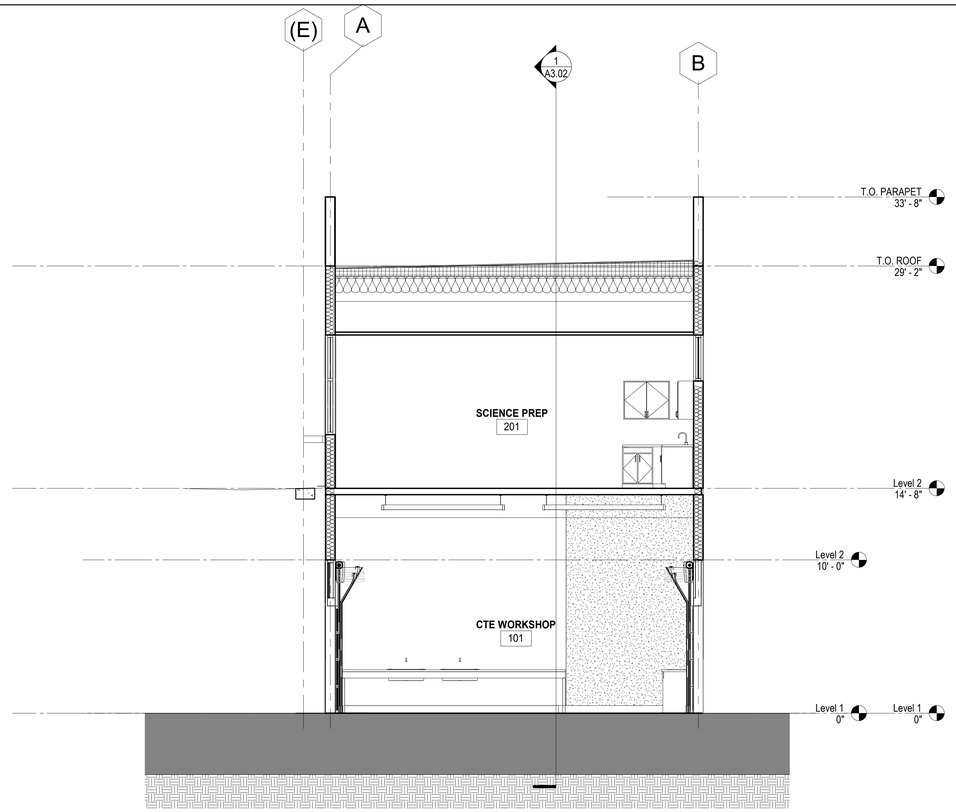
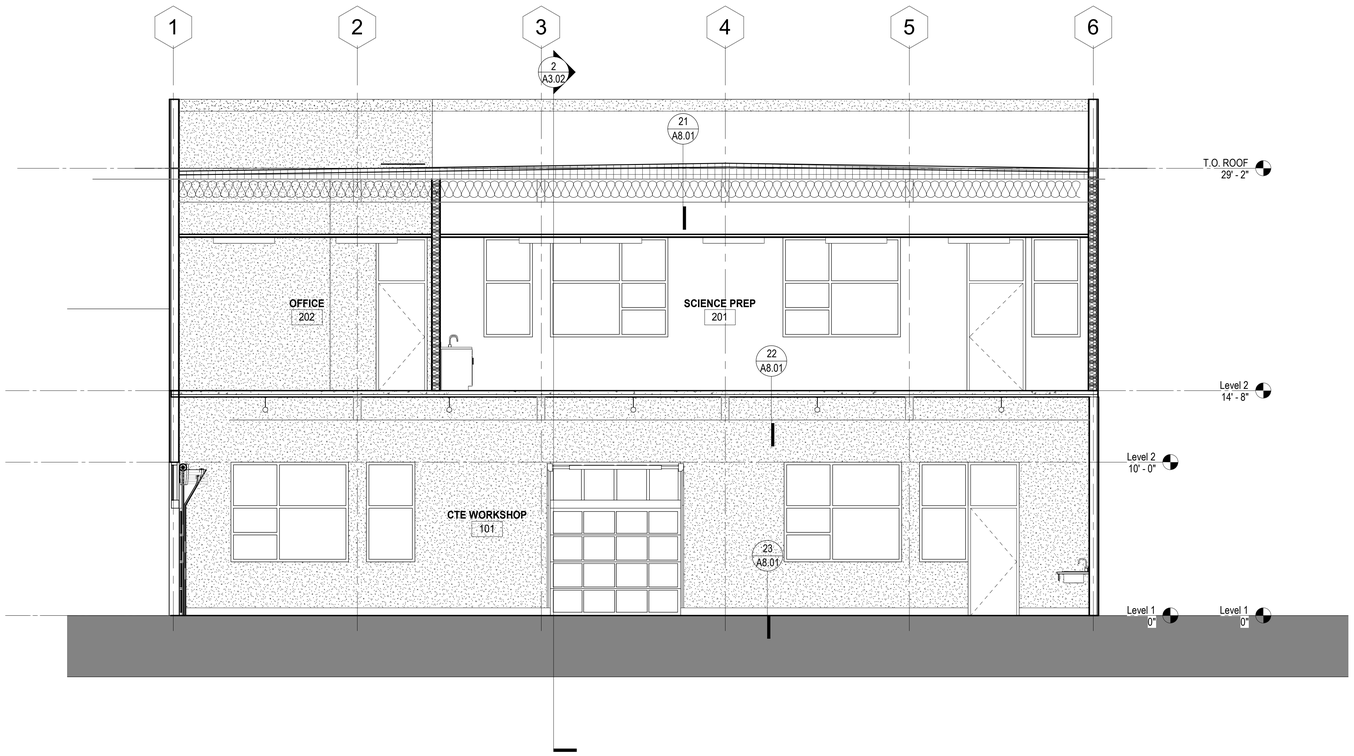


2 CROSS SECTION
1/4" = 1'-0"

FEET
0 2 4 8



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

FEET
0 2 4 8

GENERAL NOTES

A. SEE FLOOR PLANS AND SHEET A8.1 FOR WALL TYPES AND ASSEMBLIES.

SHEET NOTES

LEGEND

1 HOUR RATED FIRE WALL

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LICENSED ARCHITECT JEFFREY M EBING STATE OF CALIFORNIA

DATE SIGNED: 02/22/2021

FOOTHILL HS MODULAR CTE WORKSHOP BUILDING

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JOB NO.	70125.11
DRAWN	Author
CHECKED	Checker
JOB CAPTAIN	Approver

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DRAWING TITLE
BUILDING SECTIONS

SCALE As indicated

A3.02

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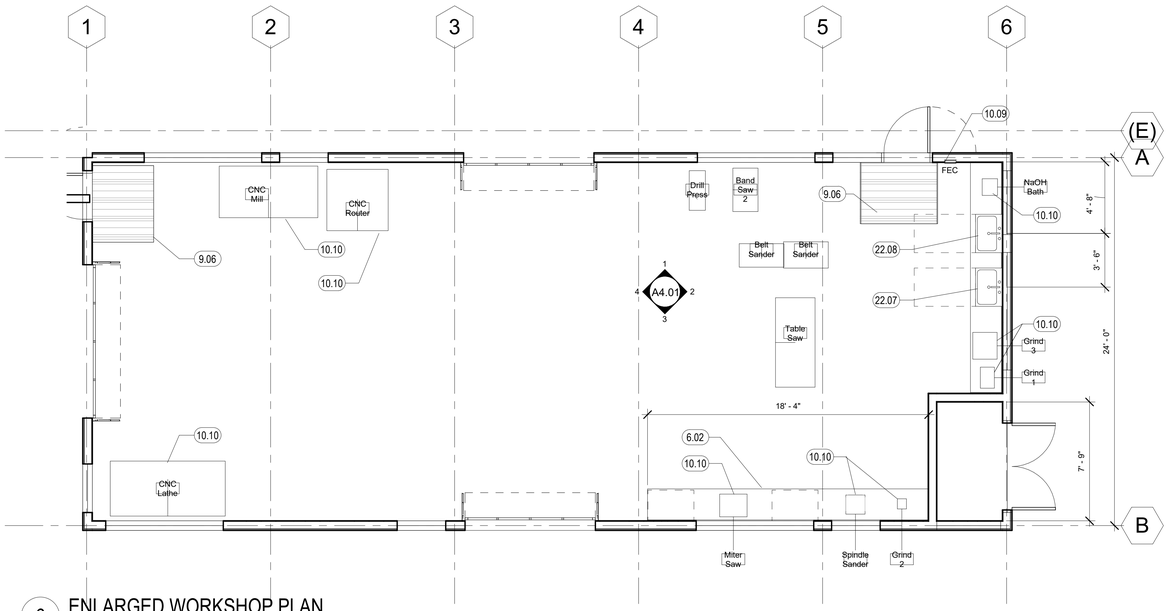


6 ENLARGED WORKSHOP PLAN
1/4" = 1'-0"

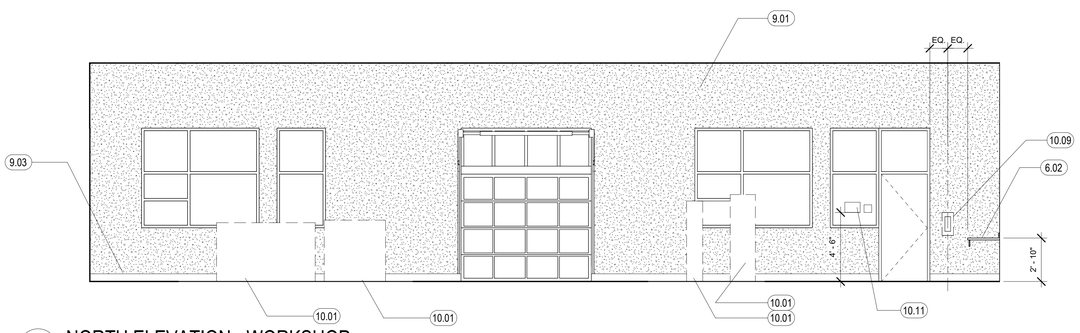
Specialty Equipment Schedule			
Type Mark	Description	Scope	Comments
LAB REF.	LAB REFRIGERATOR	OPCI	
DW	LAB GLASSWARE DISHWASHER	OPCI	
LAB FRZR	LAB FREEZER	OPCI	
AUTOCL.	AUTOCLAVE	OPCI	
H20 DIST	WATER DISTILLER	CFCI	VERIFY AND PROVIDE WATER CONNECTION
ICE MACH.	ICE MACHINE	CFCI	VERIFY AND PROVIDE WATER CONNECTION
INCU.	INCUBATOR	OPOI	
INCU.	INCUBATOR	OPOI	
CNTRFU.	CENTRIFUGE	OPOI	
CNTRFU.	CENTRIFUGE	OPOI	
WATER BTH.	WATER BATH	OFOI	
ANATOMAGE TABLE	ANATOMY TABLE	OPOI	
3D PRNT	3D PRINTER	OPOI	
3D PRNT	3D PRINTER	OPOI	
CNC Lathe	CNC LATHE	OPOI	
CNC Mill	CNC MILL	OPOI	
Laser Cutter	LASER CUTTER	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
3D	3D PRINTER	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
Drill Press	DRILL PRESS	OPCI	VERIFY AND PROVIDE CONNECTION TO DUST COLLECTOR
3D	3D PRINTER	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
3D	3D PRINTER	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
Miter Saw	MITER SAW	OPCI	VERIFY AND PROVIDE CONNECTION TO DUST COLLECTOR
Laser Engraver	LASER ENGRAVER	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
Belt Sander	BELT SANDER	OPCI	VERIFY AND PROVIDE CONNECTION TO DUST COLLECTOR
Band Saw 2	BAND SAW	OPCI	VERIFY AND PROVIDE CONNECTION TO DUST COLLECTOR
Grind 3	GRINDER	OPOI	
Grind 2	GRINDER	OPOI	
Grind 1	GRINDER	OPOI	
CNC Router	CNC ROUTER	OPOI	
Spindle Sander	SPINDLE SANDER	OPCI	VERIFY AND PROVIDE CONNECTION TO DUST COLLECTOR
Vacuum Pump	VACUUM PUMP	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
NaOH Bath	NaOH BATH	OPOI	
Delta Lathe	DELTA LATHE	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
Belt Sander	BELT SANDER	OPCI	VERIFY AND PROVIDE CONNECTION TO DUST COLLECTOR
Table Saw	TABLE SAW	OPCI	VERIFY AND PROVIDE CONNECTION TO DUST COLLECTOR
Struc. Anlz.	STRUCTURAL ANALYZER	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
3D	3D PRINTER	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
AIR PURIFIER	AIR PURIFIER	NOT IN SCOPE	TO BE INSTALLED IN (E) BLDG
SND	Bobrick B-254 Surface Mounted Sanitary Napkin Disposal	CFCI	
SCD	Bobrick B-221 Classic Series Surface Mounted Seat Cover Dispenser	CFCI	
TTD	Bobrick B-2888 Classic Series Surface Mounted Multi-roll Toilet Tissue Dispenser	CFCI	
SD	ClassicSeries® Surface-Mounted Soap Dispenser	CFCI	

GENERAL NOTES

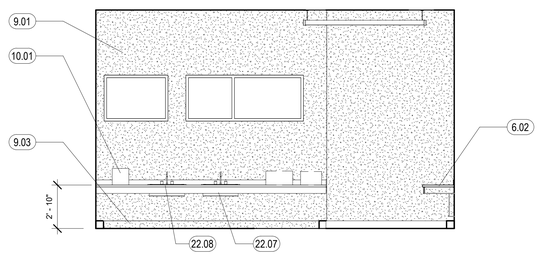
A. SEE FLOOR PLANS AND SHEET A8.01 FOR WALL TYPES.
B. SEE SHEET A10.01 FOR ACCESSIBILITY DIAGRAMS FOR PLUMBING FIXTURES AND TOILET ACCESSORIES
C. SEE A10.02 FOR DOOR AND HARDWARE SCHEDULE, WINDOW AND STOREFRONT SCHEDULES
D,. SEE A2.02 FOR INTERIOR AND EXTERIOR FINISH SCHEDULES

SHEET NOTES

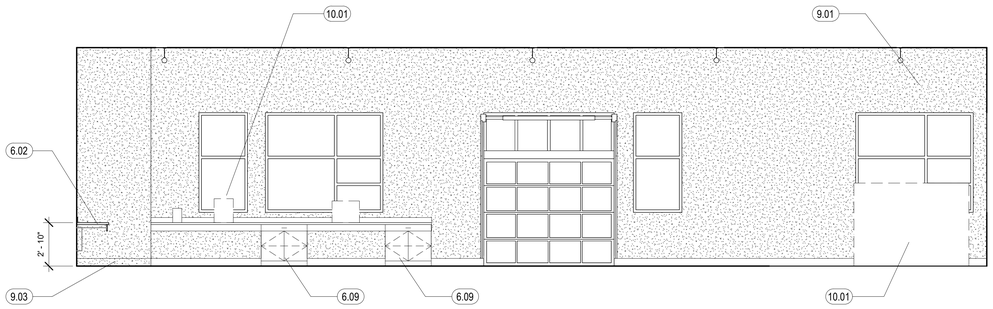
6.02	PLAM COUNTERTOP W/ 4" BACKSPLASH -PROVIDE SUPPORTS AT OPEN COUNTERTOP
6.09	24" DEEP PLAM DOUBLE DOOR BASE CABINET WITH LOCK WITH (1) ADJ. SHELF AND (1) DRAWER
9.01	GYP. BOARD - PAINT TYP
9.03	RESILIENT WALL BASE, SEE FINISH SCHEDULE
9.06	4'X4' WALK-OFF CARPET MAT, TYP.
10.01	SPECIALTY EQUIPMENT - SEE PLAN AND SCHEDULE
10.09	FIRE EXTINGUISHER CABINET, SEE 24/A8.01
10.10	SPECIALTY EQUIPMENT - SEE SCHEDULE
10.11	SIGNAGE - SEE FLOOR PLANS AND SIGNAGE SCHEDULE
22.07	ACCESSIBLE STAINLESS STEEL SINK
22.08	STAINLESS STEEL SINK



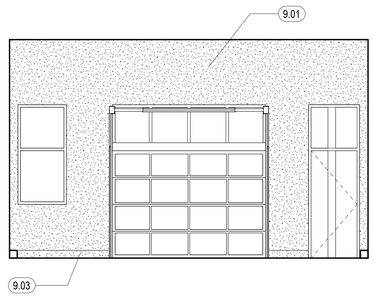
1 NORTH ELEVATION - WORKSHOP
1/4" = 1'-0"



2 EAST ELEVATION - WORKSHOP
1/4" = 1'-0"



3 SOUTH ELEVATION - WORKSHOP
1/4" = 1'-0"



4 WEST ELEVATION - WORKSHOP
1/4" = 1'-0"

LEGEND

1 HOUR RATED FIRE BARRIER

DOOR CLEARANCE AREA

F.E.C.
FIRE EXTINGUISHER CABINET

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ENLARGED PLANS AND INT. ELEV

SCALE As indicated

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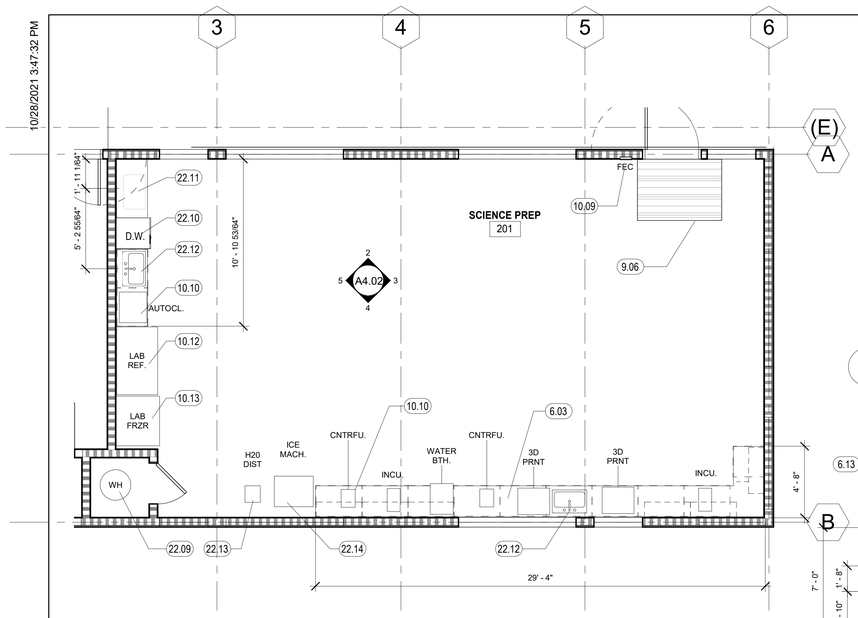
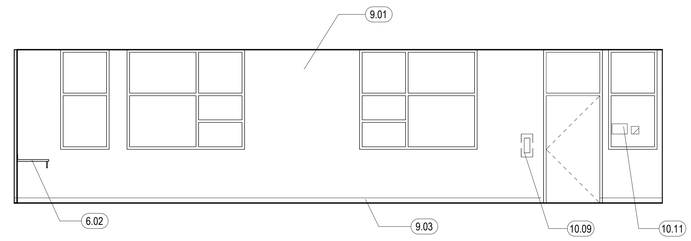
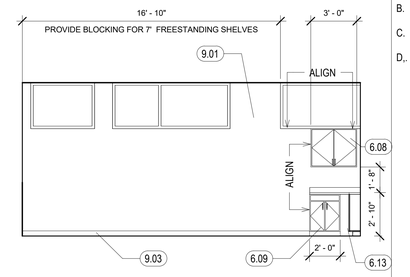


1 PREP ROOM ENLARGED PLAN
1/4" = 1'-0"



2 PREP ROOM NORTH ELEVATION
1/4" = 1'-0"



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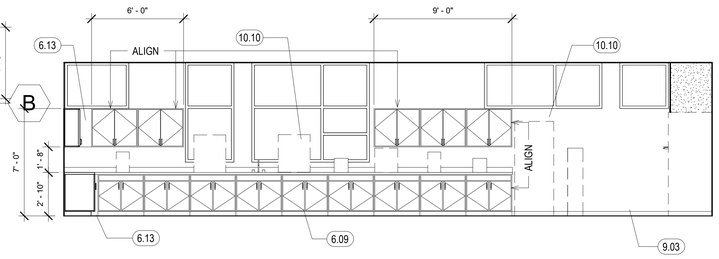
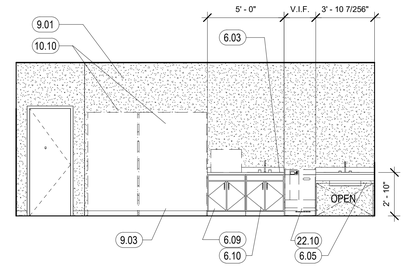
1/4" = 1'-0"



4 PREP ROOM SOUTH ELEVATION
1/4" = 1'-0"



5 PREP ROOM WEST ELEVATION
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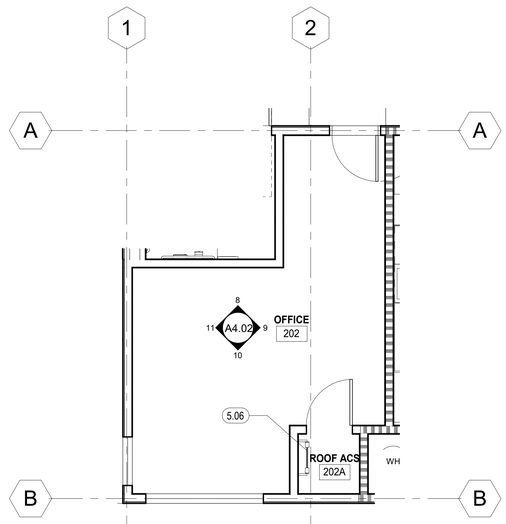
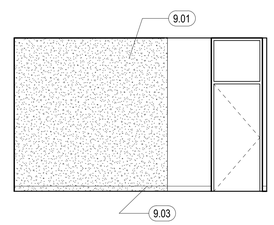


6 OFFICE ENLARGED PLAN
1/4" = 1'-0"

7 RESTROOM ENLARGED PLAN
1/4" = 1'-0"



8 OFFICE NORTH ELEVATION
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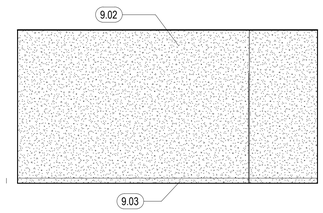
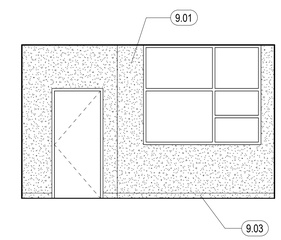
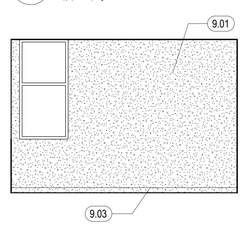


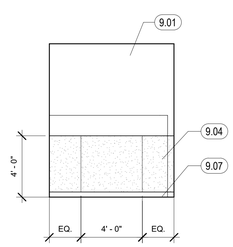
9 OFFICE EAST ELEVATION
1/4" = 1'-0"



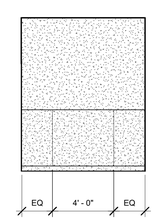
10 OFFICE SOUTH ELEVATION
1/4" = 1'-0"



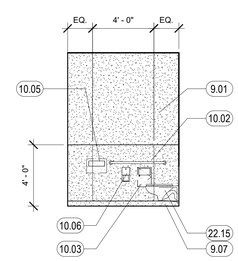
11 OFFICE WEST ELEVATION
1/4" = 1'-0"



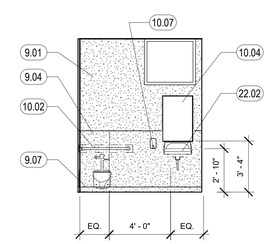
12 RESTRM. NORTH ELEVATION
1/4" = 1'-0"



13 RESTRM. EAST ELEV.
1/4" = 1'-0"



14 RESTRM. SOUTH ELEV.
1/4" = 1'-0"



15 RESTRM. WEST ELEV.
1/4" = 1'-0"

GENERAL NOTES

A. SEE FLOOR PLANS AND SHEET A8.01 FOR WALL TYPES.
B. SEE SHEET A10.01 FOR ACCESSIBILITY DIAGRAMS FOR PLUMBING FIXTURES AND TOILET ACCESSORIES
C. SEE A10.02 FOR DOOR AND HARDWARE SCHEDULE, WINDOW AND STOREFRONT SCHEDULES
D,. SEE A2.02 FOR INTERIOR AND EXTERIOR FINISH SCHEDULES

SHEET NOTES

5.06 FIXED LADDER WITH HATCH
6.02 PLAM COUNTERTOP W/ 4" BACKSPLASH -PROVIDE SUPPORTS AT OPEN COUNTERTOP
6.03 PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH, SEE FINISH SCHEDULE
6.05 OPEN SINK ROLL-IN BASE CABINET
6.08 CUSTOM 12" DEEP DOUBLE DOOR UPPER CABINET W/ (2) HEIGHT ADJ. SHELVES
6.09 24" DEEP PLAM DOUBLE DOOR BASE CABINET WITH LOCK WITH (1) ADJ. SHELF AND (1) DRAWER
6.10 SINK BASE CABINET WITH DOUBLE DOORS
6.13 FILLER PANEL
9.01 GYP. BOARD - PAINT TYP
9.02 GYP. BOARD SOFFIT- PAINT TYP.
9.03 RESILIENT WALL BASE, SEE FINISH SCHEDULE
9.04 FRP, SEE FINISH SCHEDULE
9.06 4'X4' WALK-OFF CARPET MAT, TYP.
9.07 COVE BASE - SEE FINISH SCHEDULE
10.02 GRAB BAR, PROVIDE BACKING TO ACCOMMODATE 250 LB FORCE
10.03 RECESSED SANITARY NAPKIN DISPOSAL
10.04 MIRROR
10.05 SEAT COVER DISPENSER
10.06 RECESSED DOUBLE ROLL TOILET TISSUE HOLDER, SANITARY NAPKIN DISPOSAL, SEAT COVER DISPENSER COMBO.
10.07 WALL MOUNTED LIQUID SOAP DISPENSER
10.09 FIRE EXTINGUISHER CABINET, SEE 24/A8.01
10.10 SPECIALTY EQUIPMENT - SEE SCHEDULE
10.11 SIGNAGE - SEE FLOOR PLANS AND SIGNAGE SCHEDULE
10.12 LAB REFRIGERATOR TO BE RELOCATED FROM (E) BUILDING - VERIFY SIZE AND REQUIREMENTS,
10.13 LAB FREEZER TO BE RELOCATED FROM (E) BUILDING - VERIFY SIZE AND REQUIREMENTS,
22.02 WALL-HUNG SINK AND FAUCET, ACCESSIBLE, S.P.D. SEE X/XX
22.09 HOT WATER HEATER - SPD
22.10 LAB DISHWASHER TO BE RELOCATED FROM (E) BUILDING - VERIFY SIZE AND REQUIREMENTS, SPD
22.11 ACCESSIBLE LAB SINK
22.12 LAB SINK
22.13 WATER DISTILLER - SEE SCHEDULE. SPD FOR WATER CONNECTION
22.14 ICE MACHINE - SEE SCHEDULE. SPD FOR WATER CONNECTION AND FLOOR SINK
22.15 WALL HUNG WATER CLOSET, ACCESSIBLE - S.P.D.

LEGEND

1 HOUR RATED FIRE BARRIER

DOOR CLEARANCE AREA

F.E.C. FIRE EXTINGUISHER CABINET

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ENLARGED PLANS

SCALE As indicated

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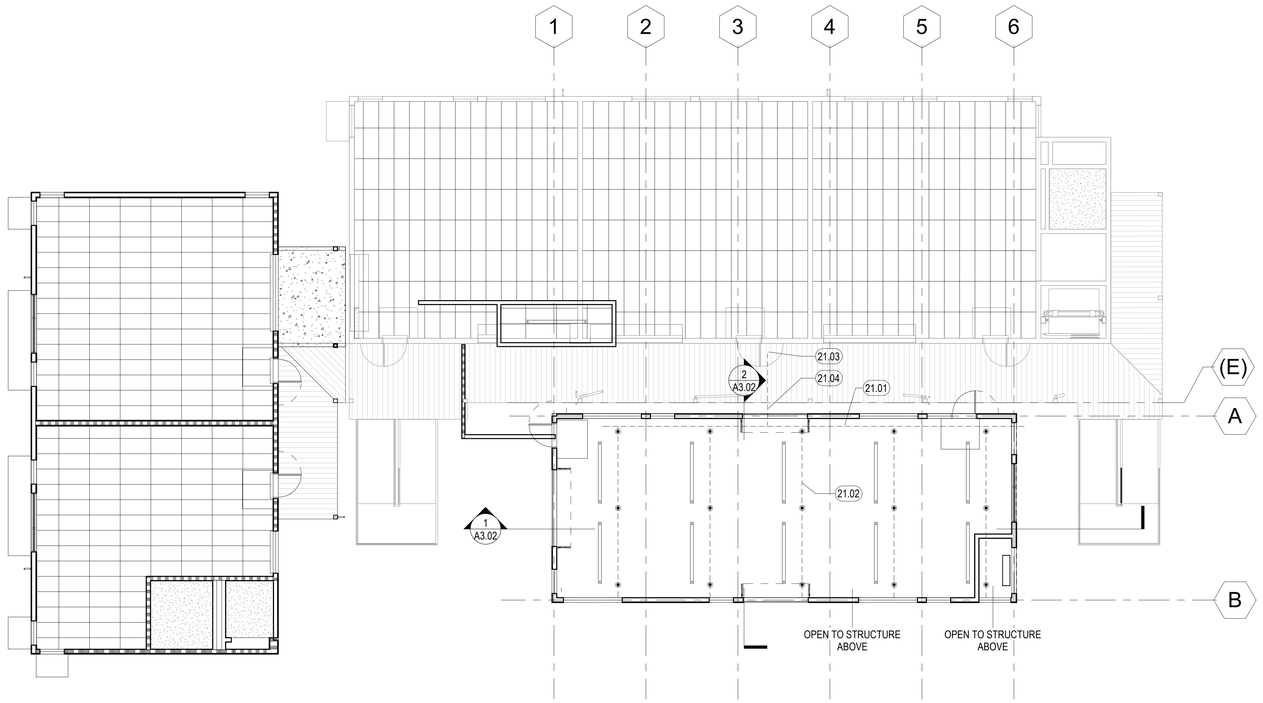
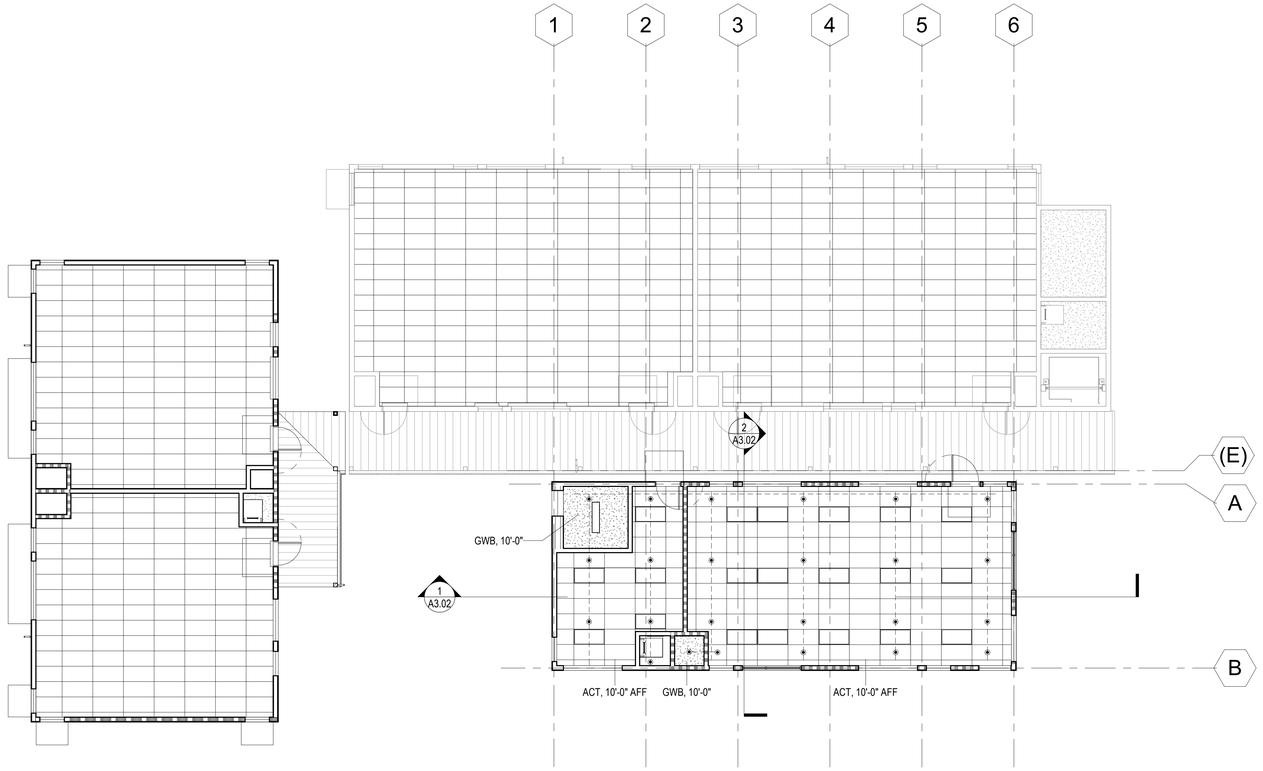


1 Level 1
1/8" = 1'-0"



2 Level 2
1/8" = 1'-0"

GENERAL NOTES

A. SEE FLOOR PLANS AND SHEET A8.01 FOR WALL TYPES AND ASSEMBLIES.
B. SEE SHEET A10.10 FOR WINDOW, DOOR AND HARDWARE SCHEDULE, AND SIGNAGE SCHEDULE
C. SEE SHEET A2.02 FOR INTERIOR AND EXTERIOR FINISH SCHEDULE
D. SEE CIVIL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION AND LANDSCAPE DRAWINGS FOR COMPLETE SCOPE OF WORK
E. SUUPLY AND RETURN GRILLES AND LOCATIONS TO BE PART OF MECHANICAL DESIGN-BUILD SCOPE OF WORK.
F. SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT LIGHTS AND EMERGENCY BATTERY UNITS.
G. FIRE PROTECTION DESIGN AND ENGINEERING TO BE DESIGN-BUILD BY MODULAR CONTRACTOR. FIRE PROTECTION DESIGN CRITERIA PROVIDED IN SPECIFCATIONS -FIRE SPRINKLER LINES AND HEADS SHOWN FOR PLANNING PURPOSES.

SHEET NOTES

21.01	FIRE SPRINKLER CROSSMAI
21.02	FIRE SPRINKLER BRANCH LINE
21.03	CONNECT TO (E) FIRE SPRINKLER SYSTEM AT (E) CAPPED LOCATION - SEE REFERENCED SHEET FP2.1
21.04	PROVIDE SEISMIC FIRE LOOP AT SEISMIC JOINT

LEGEND

- SUSP. GYP. BD CEILING
- 2'X4' SUSPENDED ACOUSTIC CEILING TILE
- CEMENT FLASTER
- METAL DECK
- LIGHT FIXTURES, S.E.D.
- SPRINKLER HEAD

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CHECKED	-
JOB CAPTAIN	-

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DRAWING TITLE
REFLECTED CEILING PLANS

SCALE 1/8" = 1'-0"

A6.01

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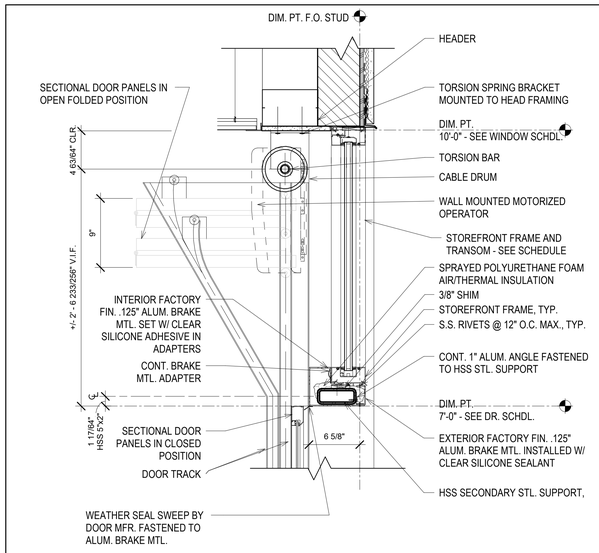
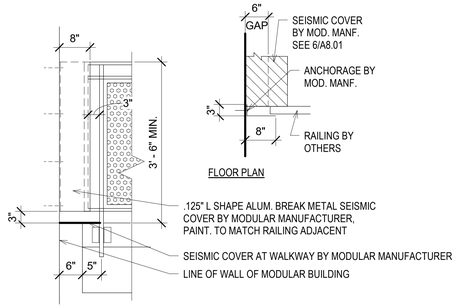
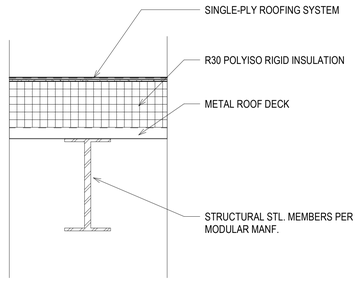


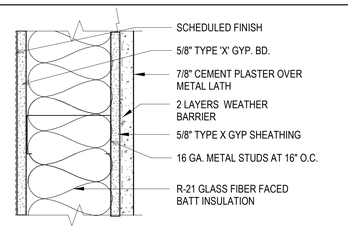
2 STACKING SECTIONAL DOOR HEAD
1 1/2" = 1'-0"



11 SEISMIC JOINT AT GUARDRAIL
3/4" = 1'-0"



21 ROOF ASSEMBLY
1 1/2" = 1'-0"

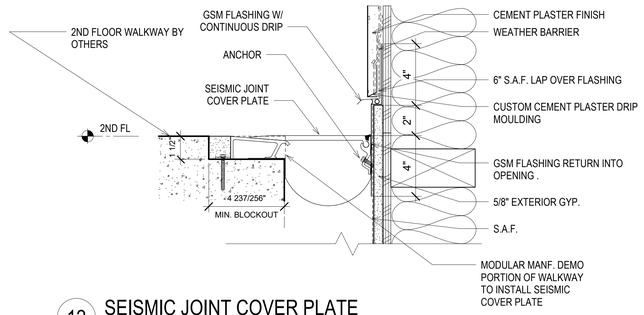


TYPE A: FIRE RATING: NON RATED

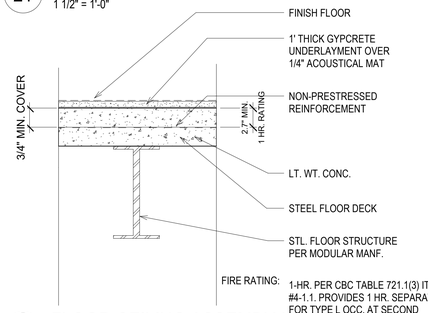
TYPE A1: FIRE RATING: 1-HR PER CBC TABLE 721.1 (2) ITEM #15-1.4

PLAN SYMBOL: A A1

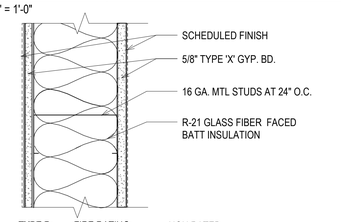
26 WALL TYPE A, A1
3" = 1'-0"



12 SEISMIC JOINT COVER PLATE
3" = 1'-0"



22 FLOOR CEILING ASSEMBLY
1 1/2" = 1'-0"

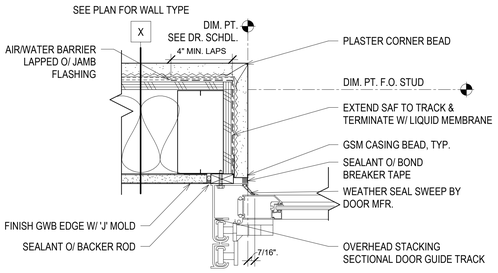


TYPE B: FIRE RATING: NON RATED

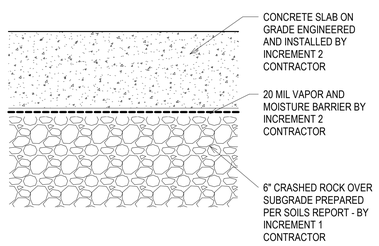
TYPE B1: FIRE RATING: 1-HR PER CBC TABLE 721.1 (2) ITEM #13-1.3

PLAN SYMBOL: B B1

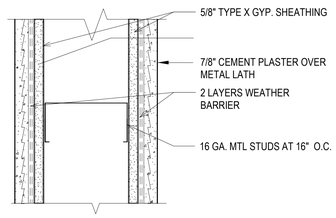
27 WALL TYPE B
3" = 1'-0"



3 STACKING SECTIONAL DOOR JAMB
3" = 1'-0"



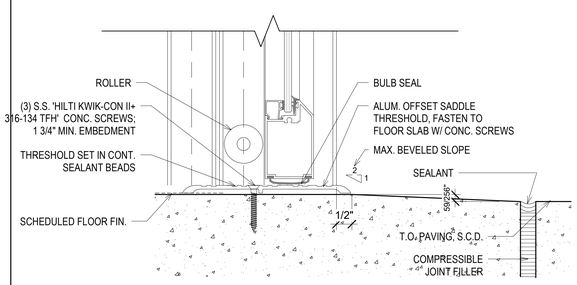
23 SLAB ON GRADE
3" = 1'-0"



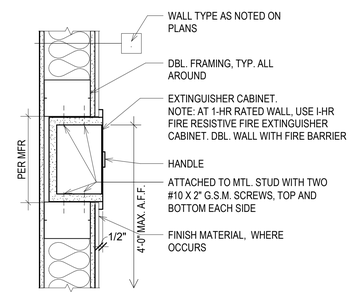
EXT. PARAPET WALL

PLAN SYMBOL: C

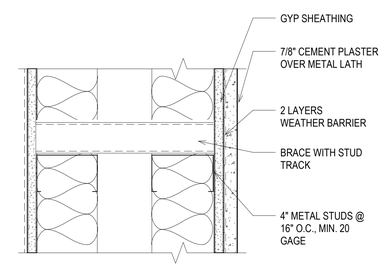
28 WALL TYPE C
3" = 1'-0"



4 STACKING SECTIONAL DOOR THRESHOLD
6" = 1'-0"



24 RECESSED FEC CABINET
1 1/2" = 1'-0"



29 WALL TYPE D
3" = 1'-0"

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CHECKED	Checker
JOB CAPTAIN	Approver

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	DATE	DESCRIPTION
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DRAWING TITLE

WALL TYPES & ASSEMBLY DETAILS

SCALE As indicated

A8.01

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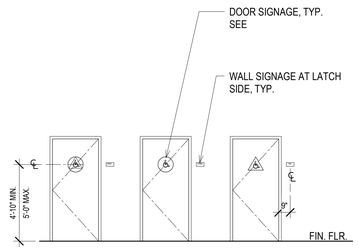
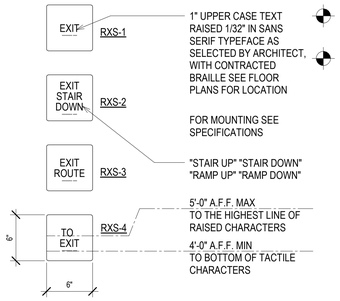


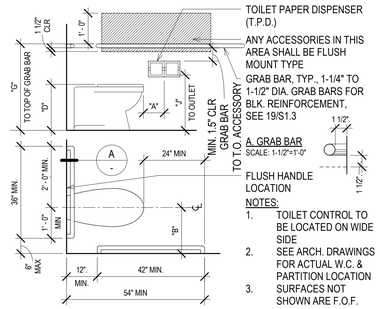
1 RESTROOM SIGN MOUNTING
1/4" = 1'-0"



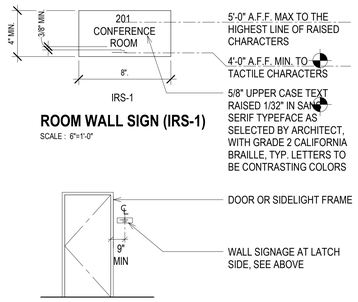
5 TACTILE ROOM EXIT SIGN
1 1/2" = 1'-0"

RESTROOM FIXTURES/ACCESSORIES DIMENSIONS				
		ADULT	ELEMENTARY	KINDER
A	TOILET TO TPD CENTERLINE	7" - 9"	6" MAX	6" MAX
B	WATER CLOSET CENTERLINE	18"	15"	12" - 15"
C *	ACCESSORY HEIGHT	39"	36"MAX	32"MAX
D *	TOILET SEAT HEIGHT	17" - 19"	15"	12" - 15"
E *	LAVATORY HEIGHT	34" MAX	29" MAX	24" MAX
F *	URINAL HEIGHT	17" MAX	15" MIN	--
G *	T.O. GRAB BAR	33" - 36"	25"	20" - 25"
H *	LAVATORY KNEE CLEARANCE	27" - 29" @ APRON	24" MIN	19" MIN
J *	TPD HEIGHT TO OUTLET	19" MIN	14" - 17"	14" - 17"
* AT SLOPING FLOORS, DIM. IS AT FACE OF FIXTURE				

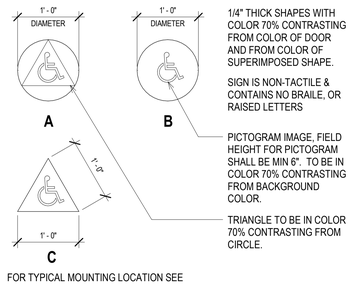
9 RESTROOM FIXTURE CHART
1/2" = 1'-0"



13 WATER CLOSET/GRAB BAR DIAGRAM
1/2" = 1'-0"

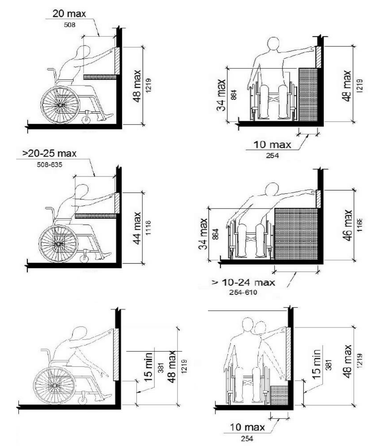


2 ROOM SIGN MOUNTING
1/4" = 1'-0"



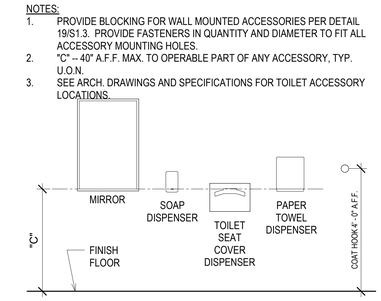
FOR TYPICAL MOUNTING LOCATION SEE

6 RESTROOM DOOR SIGN - TRS
1" = 1'-0"

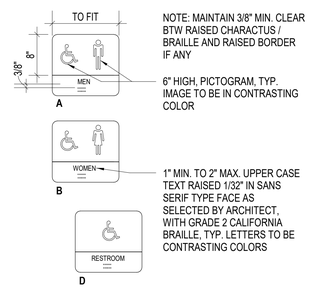


NOTE: REACH RANGES FOR ELECTRICAL SWITCHES, RECEPTACLES, THERMOSTATS, ECT. ON WALLS AND AT COUNTERS

10 REACH RANGES
1 1/2" = 1'-0"

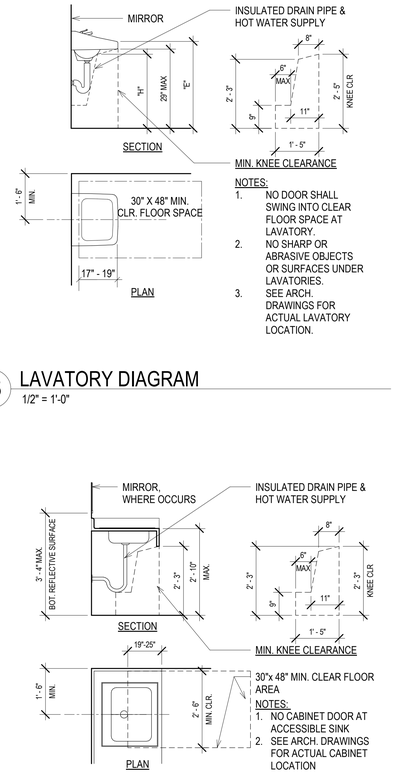


14 TOILET ROOM ACCESSORIES
1/2" = 1'-0"

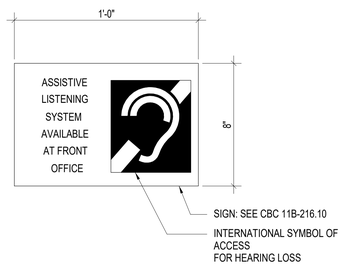


FOR TYPICAL MOUNTING LOCATION SEE DET. 28/A10.2

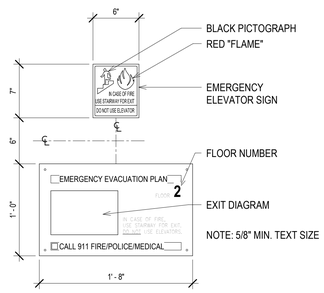
7 RESTROOM WALL SIGN
1" = 1'-0"



15 LAVATORY DIAGRAM
1/2" = 1'-0"



8 ASSISTIVE LISTENING SIGN (ALS)
3" = 1'-0"



12 EXIT INFORMATION SIGN (XIS)
1 1/2" = 1'-0"

16 ACCESSIBLE SINK CABINET DIAGRAM
1/2" = 1'-0"

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CHECKED	Checker
JOB CAPTAIN	Approver

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	DATE	DESCRIPTION
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DOOR AND HARDWARE SCHEDULE

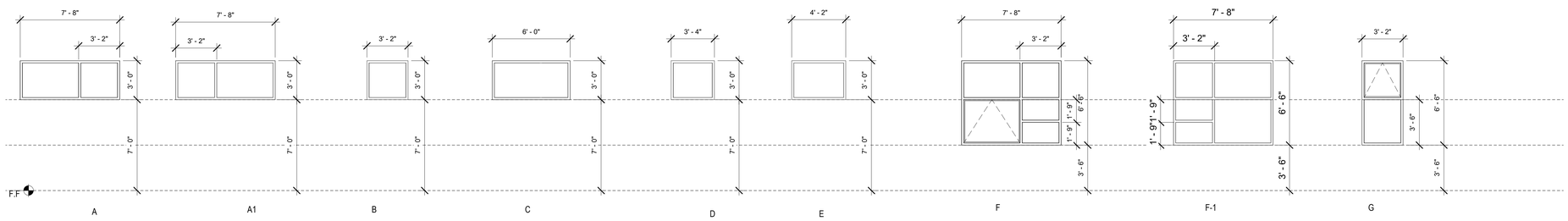
DOOR NO.	DOOR WIDTH	DOOR HEIGHT	FIRE RATING	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	FRAME MATERIAL	FRAME TYPE	FRAME FINISH	FRAME COLOR	HARDWARE GROUP	REMARKS
101	3' - 0"	7' - 0"	NR	A	FRP	MFR	TBD	HM	A	PT	TBD	01	
101A	8' - 6"	7' - 0"	NR	B	ALUM	FF		ALUM STRFRONT	A	FF	TBD	08	VERTICAL STACKING DOOR
101B	3' - 0"	7' - 0"	NR	A	FRP	MFR	TBD	HM	A	PT	TBD	02	
101C	10' - 0"	7' - 0"	NR	C	ALUM	FF		ALUM STRFRONT	B	FF	TBD	08	VERTICAL STACKING DOOR
101D	8' - 6"	7' - 0"	NR	A	ALUM	FF		ALUM STRFRONT	A	FF	TBD	08	VERTICAL STACKING DOOR
102	5' - 8"	7' - 0"	NR	AA	FRP	MFR	TBD	HM	C	PT	TBD	06	
201	3' - 6"	7' - 0"	45 MIN	A	FRP	MFR	TBD	HM	A	PT	TBD	03	
201A	2' - 8"	7' - 0"	45 MIN	A	WOOD	PT/SG	TBD	HM	B	PT	TBD	07	
202	3' - 0"	7' - 0"	NR	A	FRP	MFR	TBD	HM	A	PT	TBD	04	
202A	3' - 0"	7' - 0"	NR	A	WOOD	PT/SG	TBD	HM	B	PT	TBD	07	
203	3' - 0"	7' - 0"	NR	A	FRP	MFR	TBD	HM	B	PT	TBD	05	

SIGNAGE SCHEDULE

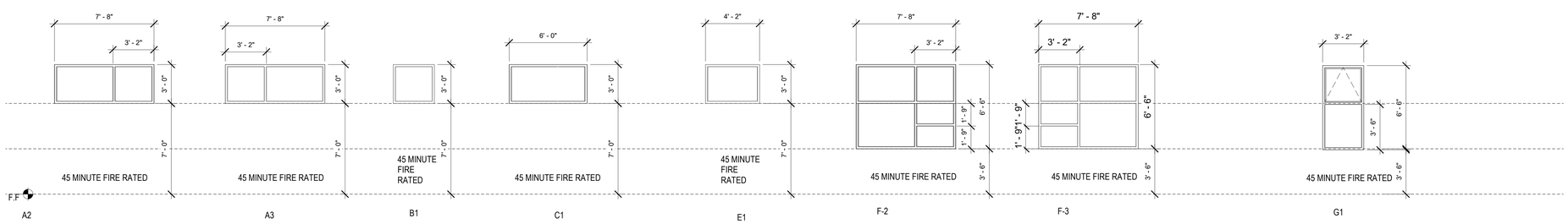
AREA	SIGN #	LOCATION	TYPE	MISCELLANEOUS TEXT	DETAIL(S)	REMARKS
FIRST FLOOR	ALS1	ON SIDELITE	ROOM WALL SIGN	ASSISTIVE LISTENING SYSTEM AVAILABE AT FRONT OFFICE	8/A10.01	ALS
	S1-101A	ON SIDELITE	ROOM WALL SIGN	101 CTE WORKSHOP	2/A10.01	IRS-1
	S1-101B	ON SIDELITE	ROOM EXIT SIGN	EXIT		RXS-1
	S1-101C	ON WALL	ROOM EXIT SIGN	EXIT	5/A10.01	RXS-1
	S1-101D	ON WALL	ROOM WALL SIGN	101 CTE WORKSHOP	2/A10.01	IRS-1
SECOND FLOOR	ALS2	ON SIDELITE	ROOM WALL SIGN	ASSISTIVE LISTENING SYSTEM AVAILABLE AT FRONT OFFICE	8/A10.01	ALS
	S1-201A	ON SIDELITE	ROOM WALL SIGN	201 SCIENCE PREP	2/A10.01	IRS-1
	S1-201B	ON SIDELITE	ROOM EXIT SIGN	EXIT	5/A10.01	RXS-1
	S1-202A	ON WALL	ROOM WALL SIGN	202 OFFICE	2/A10.01	IRS-1
	S1-202B	ON WALL	ROOM EXIT SIGN	EXIT	5/A10.01	RXS-1
	S1-203A	ON WALL	RESTROOM WALL SIGN	RESTROOM	7/A10.01	D (UNISEX)
	S1-203B	ON DOOR	RESTROOM DOOR SIGN	RESTROOM	6/A10.01	A (UNISEX)

NOTE: CONFIRM SIGNAGE TEXT WITH OWNER PRIOR TO SINGAGE FABRICATION.

ALUMINUM WINDOW TYPES

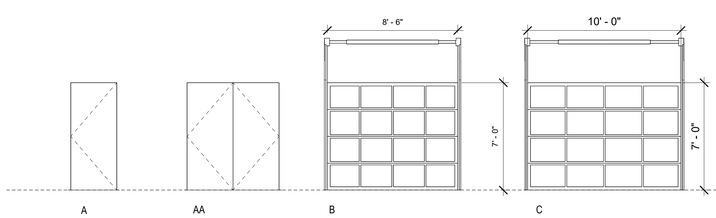


HOLLOW METAL WINDOW TYPES

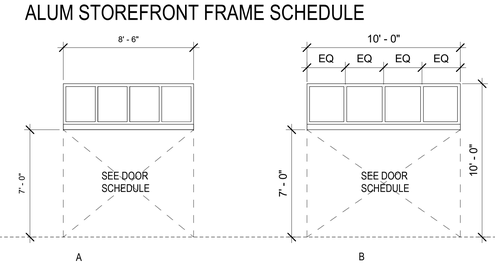


OPERABLE FIRE RATED WINDOW TYPES

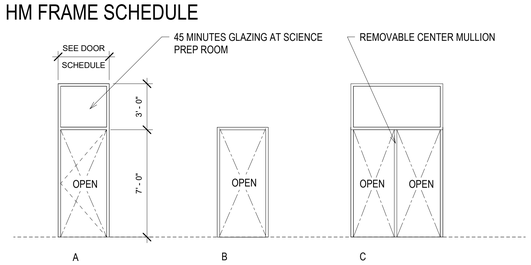
DOOR TYPES



ALUM STOREFRONT FRAME SCHEDULE



HM FRAME SCHEDULE



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FOOTHILL HS MODULAR CTE WORKSHOP BUILDING

JOB NO. 70125.11
DRAWN -
CHECKED -
JOB CAPTAIN -

ISSUE

	DATE	DESCRIPTION
	4/28/21	100% DD
	10/29/21	INC. 2 BID SET NOT FOR CONSTRICTION

DRAWING TITLE
DOOR & WINDOW SCHEDULE

SCALE As indicated

A10.01

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MECHANICAL NOTES & SPECIFICATIONS

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS, INCLUDING:

   1.1. 2019 CALIFORNIA BUILDING CODE - CCR TITLE 24 PART 2
   1.2. 2019 CALIFORNIA ELECTRICAL CODE - CCR TITLE 24 PART 3
   1.3. 2019 CALIFORNIA MECHANICAL CODE - CCR TITLE 24 PART 4
   1.4. 2019 CALIFORNIA PLUMBING CODE - CCR TITLE 24 PART 5
   1.5. 2019 CALIFORNIA FIRE CODE - CCR TITLE 24 PART 9
   1.6. 2019 CALIFORNIA EXISTING BUILDING CODE - CCR TITLE 24 PART 10
   1.7. 2019 CALIFORNIA GREEN BUILDING STANDARD
   1.8. 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS

2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED FEES, PERMITS AND INSPECTIONS.

3. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM(S) WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS FOR A COMPLETE AND WORKABLE INSTALLATION. COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS. PROVIDE A COMPLETE WORKING SYSTEM PER CONTRACT DOCUMENTS.

4. COORDINATE ALL WORK WITH THE ARCHITECTURAL, STRUCTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES. INSTALL ALL WORK TO CLEAR NEW ARCHITECTURAL WORK, STRUCTURAL MEMBERS AND WORK OF OTHER TRADES. NO ITEM SUCH AS PIPE, DUCT, ETC. SHALL BE IN CONTACT WITH ANY EQUIPMENT. ANY ERRORS, OMISSIONS, DISCREPANCIES, DEFICIENCIES, OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND THE ARCHITECT PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.

5. FIELD VERIFY EXACT SIZE AND LOCATION OF NEW BUIDLNG CONSTRUCTION PRIOR TO INSTALLATION OF ANY NEW EQUIPMENT, DUCTWORK OR REGISTERS. IF THE EXISTING DUCTWORK SIZE IS SMALLER THAN THE NEW DUCTWORK SIZE, AND/OR THE EXISTING DUCTWORK IS NOT IN THE NOTED LOCATION, NOTIFY OWNER IMMEDIATELY AND NO NEW DUCTWORK IS TO BE INSTALLED UNTIL THE ISSUE IS RESOLVED.

6. COORDINATE THE LOCATION OF ALL ROOF OPENINGS AND THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT WITH THE STRUCTURAL AND ARCHITECTURAL PLANS PRIOR TO ANY FABRICATION AND INSTALLATION.

7. PLATFORMS, CURBS, AND FLASHING FOR MECHANICAL EQUIPMENT IS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND INSTALLATION.

8. COORDINATE THE LOCATIONS OF ALL EQUIPMENT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, FIRE SPRINKLER SYSTEM, AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.

9. EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER PROOFED AND PAINTED TO MATCH. COORDINATE WITH ARCHITECT PRIOR TO PAINTING.

10. VERIFY ALL CLEARANCES AND AVAILABLE SPACE FOR DUCTWORK AND EQUIPMENT PRIOR TO ORDERING AND/OR FABRICATION.

11. DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE AND/OR PER ARCHITECTURAL DRAWINGS. ANY SCALE NOTATIONS ARE TO BE VERIFIED PRIOR TO ANY TAKE-OFF.

12. PRIOR TO OCCUPANCY THE ENTIRE HVAC SYSTEMS SHALL BE BALANCED BY AN INDEPENDENT AIR BALANCE CONTRACTOR FOR AIR IN ACCORDANCE AND PROCEDURES WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS, (NEBB) NATIONAL ENVIRONMENTAL BALANCING BUREAU , OR (TABB) TESTING ADJUSTING AND BALANCING BUREAU. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING OUTSIDE AIR VENTILATION. FINAL BALANCING SHALL BE WITHIN 10% FOR SUPPLY, RETURN AND OUTSIDE AIR QUANTITIES INDICATED. WHERE THERE IS A CONFLICT IN PLANS, NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT DONE SO THE ENTIRE SYSTEM MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. PROVIDE A COPY OF THE AIR BALANCE REPORT TO THE ENGINEER FOR REVIEW. PROVIDE PROCEDURES AND REPORTING PER CAL GREEN CODES SECTION 5.410.4.3, SECTION 5.410.4.3.1 AND SECTION 5.410.4.4.

13. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR TO COORDINATE WORK AND PERFORM NECESSARY TASKS TO OBTAIN AIR FLOW QUANTITIES AS PRESCRIBED BY DESIGN TEAM TITLE 24 COMPLIANCE.

14. PROVIDE TO BUILDING OWNER, PER CAL GREEN CODE SECTION 5.410.4.5, AND CMC 514.0, OPERATING PROCEDURES FOR THE USE, INSPECTION, TESTING, AND MAINTENANCE OF EQUIPMENT MANUAL INCLUDING INSPECTION AND REPORTS.

15. ADHESIVES, SEALANTS AND CAULKING SHALL BE COMPLIANT WITH LOW VOC OR OTHER TOXIC COMPOUND LIMITS SET BY CAL GREEN SECTION 5.504.4.

16. EQUIPMENT, ACCESSORIES AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

17. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE. LABEL SHALL IDENTIFY THE UNIT DESIGNATION PER PLANS AND THE SPACE IT SERVES.

   17.1. EQUIPMENT: 4-1/2"X1-1/2" ENGRAVED PLASTIC-LAMINATED SIGN WITH 1/2" WHITE LETTERS ON BLACK BACKGROUND.
   17.2. PIPING: SELF-STICKING PIPE MARKERS CONSISTING OF PIPE SERVICE WORDING AND ARROW INDICATING DIRECTION OF FLOW ON ANSI COLOR BACKGROUND. MAXIMUM SPACING OF 50 FEET APART. SECURE MARKER WITH 2-1/4" WIDE SELF-STICKING CLEAR TAPE AROUND PERIPHERY OF MARKER.

18. PROVIDE MANUAL VOLUME DAMPERS AND BACKDRAFT DAMPERS FOR OUTSIDE AIR INTAKES ON ALL AIR HANDLING EQUIPMENT AND EXHAUST FANS SERVING CONDITIONED SPACES. EXCEPTION: EQUIPMENT WITH FACTORY AIR ECONOMIZERS.

19. OUTSIDE AIR INTAKES SHALL MEET AS A MINIMUM CODE REQUIRED CLEARANCES FROM EXHAUST AND PLUMBING VENT OUTLETS. FOR GAS/ELECTRIC AIR CONDITIONING UNITS WHERE THE CODE REQUIRED CLEARANCES ARE NOT MET, A FACTORY FLUE GAS DEFLECTOR AND EXTENSION SHALL BE USED TO MINIMIZE THESE CLEARANCES.

20. ALL HVAC EQUIPMENT SERVING NORMALLY OCCUPIED SPACES HAVING OVER 10' OF DUCT SHALL HAVE MINIMUM MERV13 FILTERS UNLESS OTHERWISE NOTED.

21. AIR FILTERS SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED, PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURE INDICATING THE MERV RATING, AND THE FILTER SPECIFICATION SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

22. EQUIPMENT WITH MOVING PARTS, FIXED OR FLEXIBLY MOUNTED, SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS AND SHALL BE BRACED OR ANCHORED.

23. HVAC EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION TO COMPLY WITH THE LATEST EFFICIENCY STANDARDS.

24. AIR HANDLING EQUIPMENT SERVING CONDITIONED SPACES SHALL PROVIDE CONTINUOUS OUTSIDE AIR TO SPACES IN OCCUPIED MODE. CONTROLS SHALL BE PROVIDED TO PROVIDE THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY THE STATE ENERGY REGULATIONS.

25. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.

26. DUCTWORK, PIPING, CONDUIT, ETC. PENETRATING FIRE RATED CONSTRUCTION SHALL HAVE APPROVED FIRE STOPPING.

27. THERMOSTATS THAT ARE PART OF AN ENERGY MANAGEMENT SYSTEM SHALL FOLLOW CONTROL SPECIFICATIONS AND DRAWING REQUIREMENTS.

28. DUCTWORK CONSTRUCTION SHALL BE INSTALLED AND SEALED TO MEET THE REQUIREMENTS OF CMC SECTIONS 601.0, 602.0, 603.0, 605.0; AND ANSI /SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE.

29. AT THE TIME OF ROUGH INSPECTION AND DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS, OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS TO REDUCE THE AMOUNT OF DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PROVIDE POLLUTANT CONTROL PER CAL GREEN 2019 CODES SECTION 5.504.1-3 FOR TEMPORARY VENTILATION, COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION, AND USE OF LOW VOC SEALANTS

30. ALL SUPPLY, RETURN AND EXHAUST DUCT JOINTS SHALL BE SEALED PER CALIFORNIA MECHANICAL CODE CHAPTER 6 REQUIREMENTS. SEAL CLASS B.

31. DUCTWORK CONSTRUCTION SHALL MEET THE FOLLOWING SYSTEM PRESSURE REQUIREMENTS: 2 INCH WATER COLUMN

32. NEW RECTANGULAR DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL ROUND, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, CHAPTER 6 OF THE CALIFORNIA MECHANICAL CODES, OR THE APPLICABLE STANDARDS ADOPTED BY (SMACNA) SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION: SMACNA HVAC DUCT CONSTRUCTION STANDARDS -METAL OR FLEXIBLE, UL181 CERTIFIED.

33. LIMIT USE OF PERMANENT HVAC SYSTEMS DURING CONSTRUCTION TO CONDITIONING NECESSARY FOR MATERIAL AND EQUIPMENT INSTALLATION. IF PERMANENT HVAC IS USED DURING CONSTRUCTION, INSTALL MERV-8 FILTERS ON RETURNS, AND REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR ,IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.

34. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK, PIPE, AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS.

35. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OR THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

36. RECTANGULAR DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED, OR SHALL HAVE A INNER RADIUS TURN OF NO LESS THAN THE WIDTH OF THE DUCT.

37. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED TO MEET CMC 604. INTERIOR DUCTWORK SHALL BE INSULATED WITH A NON-FIBROUS MATERIAL, R=4.2. ALL SUPPLY AND RETURN DUCTWORK EXPOSED TO WEATHER SHALL BE INTERNALLY LINED WITH 2" THICK DUCT LINER UNLESS OTHERWISE INDICATED OR SPECIFIED. ALL DUCT SIZES INDICATED ON PLANS ARE NET INSIDE DIMENSIONS. ALL INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50. ALL DUCT INSULATION SHALL COMPLY WITH TABLE 4-16, 2019 CALIFORNIA NONRESIDENTIAL MANUAL.

38. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS OUTSIDE AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCING CONTRACTOR PRIOR TO BID, SO AS TO ENSURE ACCESSIBILITY AFTER INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS OTHERWISE NOTED.

39. FOR INACCESSIBLE AREAS PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, AND CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE 12"x12" FOR HAND ACCESS AND 30"x30" MINIMUM FOR BODY ACCESS. WHERE A LARGER ACCESS PANEL IS REQUIRED DUE TO INSTALLATION CONSTRAINTS OR EQUIPMENT SIZE, DO SO AT NO ADDITIONAL COST AND SHALL OBTAIN PRIOR APPROVAL FROM THE ARCHITECT, ENGINEER AND DSA.

40. REMOVE ALL LEFT OVER DUCTWORK SCRAPS, ETC. (IF ANY) AND LEAVE PREMISES CLEAN AND FREE OF ANY TRASH OR DEBRIS DUE TO THEIR WORK.

41. INSULATED PIPES SHALL CONFORM TO 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 120.3, TABLE 120.3-A. INSULATED PIPE EXPOSED TO WEATHER SHALL BE COVERED WITH E-FLEX GUARD MANUFACTURED BY AIREX MFGR INC.

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PLEASANTON, CA 94588

JOB NO.	18098.02
DRAWN	
CHECKED	GH
JOB CAPTAIN	-
ISSUE	10/27/21

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DRAWING TITLE
MECHANICAL FRONT SHEET

SCALE

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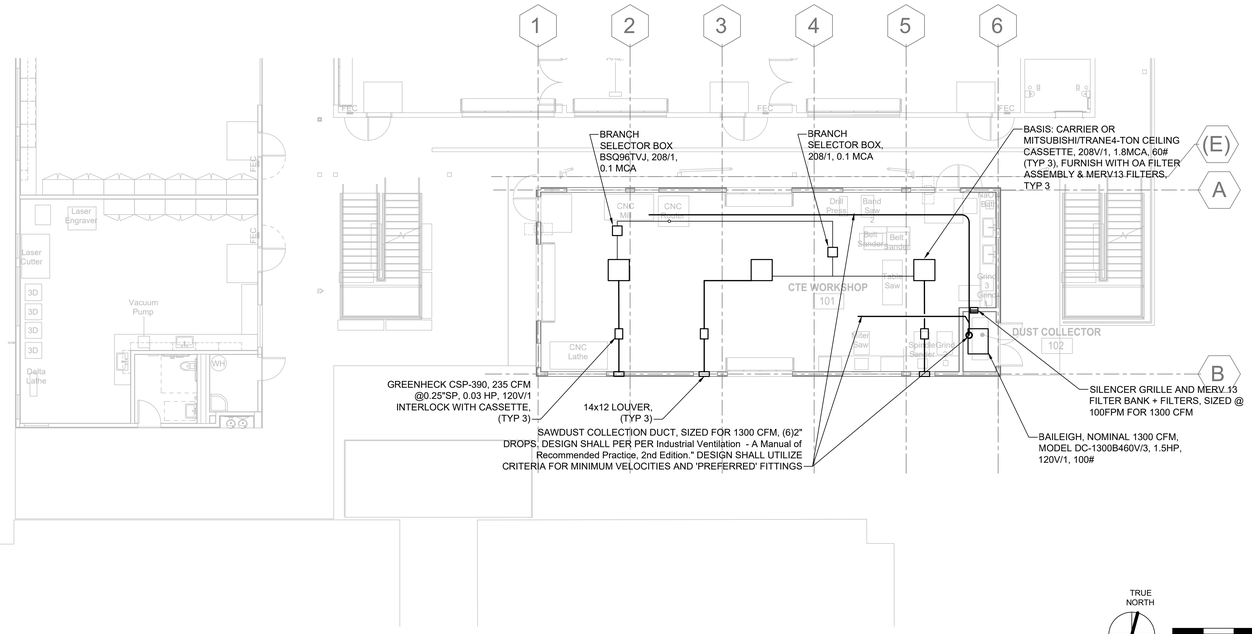
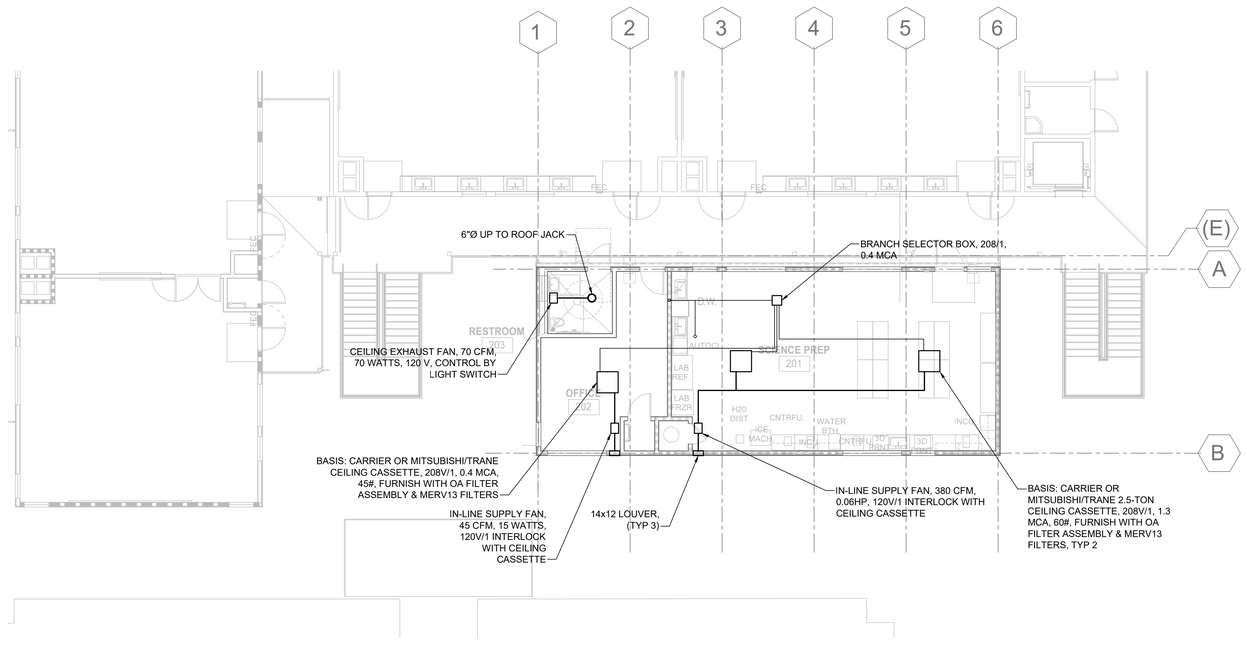


1 FIRST FLOOR PLAN
1/8" = 1'-0"



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

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MECHANICAL:
FIRST & SECOND
FLOOR PLANS

SCALE

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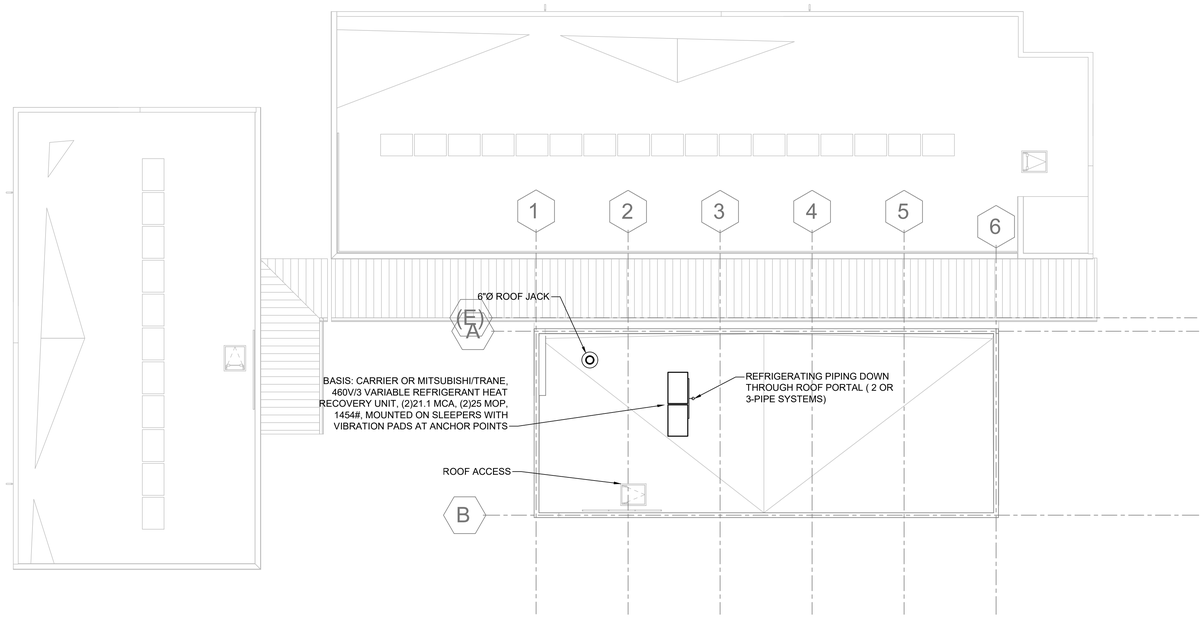

1 ROOF PLAN
1/8" = 1'-0"

TRUE NORTH

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DRAWING TITLE
MECHANICAL:
ROOF PLAN

SCALE

M2.02

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GENERAL NOTES

1. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR ADA FIXTURE LOCATIONS AND MOUNTING HEIGHTS. (INSULATE ALL EXPOSED HOT AND COLD WATER AND DRAIN PIPING BELOW ADA LAVATORIES AND SINKS AND OFFSET P-TRAP AGAINST WALL. ALSO, ALL FLUSH VALVES SHALL BE TO WIDE SIDE OF STALL.)
4. TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE IN THE NAME OF THE OWNER AND SHALL PAY ALL MATERIAL AND LABOR COSTS INCIDENTAL TO AN OPERABLE UTILITY SERVICE AS REQUIRED BY THE DESIGNATED GOVERNING AUTHORITIES OF THE CITY.
6. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
7. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS PANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND THE ELEC. LIGHTING LAYOUT.
8. THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER, SEWER AND STORM DRAIN SYSTEMS TO A POINT OF CONNECTION SHOWN ON FLOOR PLANS AND SHALL MEET THE INVERT ELEVATION AS FIELD VERIFIED WHILE MAINTAINING REQUIRED PIPE GRADE.
9. ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS CUTTING, BORING, BRAZING, DRILLING, WELDING, ETC. SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER.
10. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
11. CONTRACTOR TO PROVIDE WATER HAMMER ARRESTORS AS MANUFACTURED BY JAY R. SMITH OR EQUAL. WATER HAMMER ARRESTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON ALL DOMESTIC WATER BRANCH LINES SERVING FIXTURES.
12. ALL PLUMBING FIXTURE VENTS TO TERMINATE A MIN. OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
13. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
14. CONTRACTOR SHALL COORDINATE LAYOUT OF ALL BELOW GRADE PIPING AND COMPONENTS WITH GENERAL CONTRACTOR PRIOR TO BID TO DETERMINE EXTENT OF REQUIRED SAW CUTTING, EXCAVATION, AND SUBSEQUENT REPAIR/RESTORATION OF ALL AFFECTED HARDSCAPE AND SOFTSCAPE SURFACES. ALL SUCH ITEMS SHALL BE INCLUDED IN BID.
15. BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
16. ALL POINTS OF CONNECTION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
17. ALL WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.
18. ALL VALVES, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
19. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE A PART OF SEPARATE AND COMPLETE MECHANICAL SPECIFICATIONS.
20. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A SIX INCH (6") SECTION OF RED BRASS PIPE.
21. ALL EXTERIOR GAS COCKS, WATER SHUT OFF VALVES AND/OR SEWER CLEANOUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
22. THE CONTRACTOR SHALL VERIFY THE EXACT ELEVATIONS AND LOCATION OF EXISTING DRAINAGE SYSTEM PIPING PRIOR TO CONNECTION OF ANY PIPING.
23. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING. AT WALL OR COLUMN LOCATIONS, PIPING ROUGH-IN SHALL BE STUBBED IN WALLS WHENEVER POSSIBLE.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL EXISTING TO REMAIN STRUCTURE AND NEW CONSTRUCTION DAMAGED BY HIS OPERATIONS.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL PAVED AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL PLANTED AREAS DAMAGED BY HIS OPERATIONS.
26. ALL PATCHING AND REPAIRING OF CONCRETE PAVING AND/OR WALKS SHALL BE UNDER ANOTHER SECTION OF THE SPECIFICATIONS.
27. ALL EXISTING PIPING DAMAGED DURING EXCAVATION SHALL BE REPAIRED WITH MATERIALS TO MATCH EXISTING BY THE CONTRACTOR AT NO COST TO THE OWNER.
28. ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL BE BY MACHINE SAW CUTTING. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL BE DONE BY CORE DRILLING EQUIPMENT.
29. ALL PIPING, EXCEPT PIPING OF NONFERROUS MATERIAL, INSTALLED WITHIN THE GROUND SHALL BE PROTECTED AGAINST CORROSION BY A PROTECTIVE C OVERING SUITABLE FOR THE PURPOSE AND SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. ANY PIPING SUBJECT TO UNDUE CORROSIVE ACTION SHALL BE PROTECTED IN A MATTER SUITABLE FOR THE PURPOSE AND SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
30. ALL PENETRATIONS AND OPENINGS IN PARTY WALLS AND ROOF/FLOOR/CEILING ASSEMBLIES DUE TO PLUMBING WORK SHALL BE SEALED LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE REQUIRED FIRE AND SOUND RATING.

M/E/P COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN 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 SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

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

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

DUCTWORK AND PIPING DISTRIBUTION BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC SECTION 1617A.1.24, 1617A.1.25 AND 1617A.1.26

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

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E)

PP OPTION 1: DETAILED ON THE APPROVED DRAWINGS AND PROJECT SPECIFIC NOTES AND DETAILS

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
—— ——— ——	W	SANITARY WASTE/SEWER PIPING
— — — —	V	WASTE/SANITARY VENT PIPING
——— — ———	CW	DOMESTIC COLD WATER PIPING
——— — — ———	HW	DOMESTIC HOT WATER PIPING
——— — — ———	HWR	DOMESTIC HOT WATER RETURN PIPING
⊂		PIPE GOING DOWN
○		PIPE GOING UP
⊂		TEE
⋈	SOV	SHUT-OFF VALVE
XX-X		EQUIPMENT OR FIXTURE
	CONT.	CONTINUED/CONTINUATION
	FR.	FROM
	BEL.	BELOW
	DN.	DOWN
	VTR	VENT THROUGH ROOF
	AP	ACCESS DOOR
	NIC	NOT IN CONTRACT
	REF.	REFERENCE
	S.A.D.	SEE ARCHITECTURAL DRAWINGS
	S.M.D.	SEE MECHANICAL DRAWINGS
	S.C.D.	SEE CIVIL DRAWINGS
	S.S.D.	SEE STRUCTURAL DRAWINGS
	SF	SQUARE FEET

LIST OF APPLICABLE CODES

LIST OF CODES AND STANDARDS MODEL CODE EDITIONS EFFECTIVE JANUARY 1, 2020
2019 CA BUILDING CODE TITLE 24 PART 2 VOLUME #1 AND #2
2019 CA ELECTRICAL CODE TITLE 24 PART 3
2019 CA MECHANICAL CODE TITLE 24 PART 4
2019 CA PLUMBING CODE TITLE 24 PART 5
2019 CA FIRE CODE TITLE 24 PART 9
2019 CA BUILDING STANDARDS TITLE 24 PART 9

PLUMBING FIXTURE SCHEDULE

FIXTURE	MARK	ROUGH IN CONNECTIONS				DESCRIPTION
		HW	CW	WASTE	VENT	
WATER CLOSET	WC-1	--	1"	4"	2"	AMERICAN STANDARD MILLENNIUM FLOWISE 3351.101 WALL MOUNTED WATER CLOSET WITH EVERCLEAN, ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD, POWERFUL DIRECT-FED SIPHON JET ACTION, FLUSH VALVE: SLOAN ROYAL 111-1.28 DIAPHRAGM TYPE, CHROME PLATED, HIGH EFFICIENCY 1.28 GPF. TOILET SEAT: BEMIS 1955SSCT OPEN FRONT LESS COVER, ELONGATED, HEAVY DUTY, INJECTION MOLDED SOLID PLASTIC, BLACK. CARRIER: SEE SECTION 22 00 00.
LAVATORY (ADA)	L-1	1/2"	1/2"	2"	2"	AMERICAN STANDARD LUCERNE 0356.421 WALL MOUNTED 20.50" X 18.25" LAVATORY, VITREOUS CHINA, CENTER SINGLE HOLE, WITH FRONT OVERFLOW. FAUCET: CHICAGO FAUCETS 3500-E2805ABCP SINGLE HOLE DECK MOUNTED, METERING FAUCET, SOLID BRASS CHROME PLATED, VANDAL PROOF NON-AERATING SPRAY, MVP SELF CLOSING, AUTO TIMED METERING CARTRIDGE, ADJUSTABLE RUN TIME 2 TO 15 SEC, 0.5 GPM. STRAINER AMERICAN STANDARD 2411.015 BRASS CONSTRUCTION, 1-1/4" CONNECTION WITH OVERFLOW. ANGLE STOPS/P-TRAP/PIPE WRAP: SEE SECTION 22 00 00.
SINK	S-1	1/2"	1/2"	2"	2"	ELKAY LUSTERTONE LRAD2022 19 1/2" X 22" X 5 1/2", COUNTER MOUNTED, 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF RIMMING. FAUCET: CHICAGO FAUCET 895-317354XKABCP DECK MOUNTED, 4" FIXED CENTERS, CHROME PLATED, RIGID/SWING GOOSENECK SPOUT, 4" METAL VANDAL PROOF WRISTBLADES, 1.5 GPM PRESSURE COMPENSATING SOFTFLO VANDAL PROOF AERATOR. ANGLE STOPS/P-TRAP/PIPE WRAP: SEE SECTION 22 00 00
EXPANSION TANK	ET-1	--	3/4"	--	--	BELL & GOSSETT PTA-20V 12" DIA X 21" HT., CARBON STEEL SHELL, POLYPRPROLYENE LINER, 5.3 GAL ACCPTANCE VOL., 34 LBS. SHIP WT.
FLOOR SINK	FS-1	--	--	2"	2"	ZURN #Z1901 FLOOR SINK DEEP CAST IRON BODY AND SQUARE SLOTTED LIGHT DUTY GRATE, WITH WHITE ACID RESISTANT POPCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.
FLOOR DRAIN	FD-1	--	--	SEE PLANS	SEE PLANS	JAY R SMITH 2005Y 6"□ FLOOR DRAIN, TYPE "B" NICKEL BRONZE STRAINER WITH ADJUSTABLE STRAINER HEADS, VANDAL PROOF SCREWS.
HOSE BIBB	HB-1	--	3/4"	--	--	JAY R SMITH 5670 3/4" HOSE BIBB FLANGE MOUNT, COMPLETE WITH VACUUM BREAKER.
TRAP PRIMER	TP-1	--	1/2"	--	--	PRECISION PLUMBING PRODUCTS P2-500 TRAP PRIMER, CORROSION RESISTANT BRASS, PISTON OPERATED.

NOTES:
1. ITEM DESCRIPTIONS INCLUDED IN THIS SCHEDULE ARE INTENDED TO DESCRIBE GENERAL FIXTURE CONFIGURATIONS, AND DOES NOT INCLUDE ALL REQUIREMENTS. REFER TO SPECIFICATION SECTION 22 00 00 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND REQUIRED CLEARANCES OF ALL FIXTURES.
3. ALL FIXTURES, TRIM, AND VALVING SHALL COMPLY WITH CALIFORNIA'S LEAD FREE PLUMBING LAW, HEALTH AND SAFETY CODE AND CA ASSEMBLY BILL 1953.

ELECTRIC WATER HEATER SCHEDULE

ITEM	MANUFACTURER	MODEL NO.	SERVICE	STORAGE (GAL.)	VOLT	PHASE	KW	RECOVERY @ 80°F (GAL)	INLET TEMP (°F)	OUTLET TEMP (°F)	OPERATING WEIGHT (LBS)
EWH-1	AO SMITH	DRE-80	DOMESTIC WATER	80	208	1	9	46	60	120	950

CIRCULATION PUMP SCHEDULE

ITEM	LOCATION	MANUFACTURER	MODEL NO.	SERVICE	TYPE	ACCESSORIES	CAPACITY		MOTOR			
							GPM	HEAD	HORSE POWER	VOLT	PHASE	AMPS
CP-1	GWH-1	BELL & GOSSETT	NBF-36	HOT WATER RETURN	WET ROTOR	*	1	1	1/4	115	1	2.3

* = PROVIDE B&G AUTOMATIC TIMER KIT (TC-1 115 VAC, 60 HZ, 1 PH), AQUASTAT (AQS-1/2, AQS-3/4 115 VAC, 60 HZ, 1 PH)

FIXTURE CALCULATIONS (MAIN)

Based on 2019 CPC Appendix A

Quantity	Fixture Description	Symbol	Hot Water		Cold Water		Waste	
			Units	Total	Units	Total	Units	Total
1	Water Closet (FV)	WC-X	--	--	5	5	4	4
1	Lavatory	L-X	0.75	0.75	1	1	1	1
5	Sink, Lab		1.5	7.50	2	10.0	2	10
1	Water Distiller		--	--	2	2.0	2	2
1	Ice Maker	IM-X	--	--	1	1.0	--	--
1	Dishwasher, Domestic	DW-X	1.125	1.13	1.5	1.5	--	--
2	Floor Sink, 2"	FS-X	--	--	--	--	4	8
1	Floor Drain, 2"	FD-X	--	--	--	--	4	4
			Total	9.375	Total	20.5	Total	29.0
			GPM	8	GPM	36	GPM	14.50
			Size	1"	Size	2"	Size	4"

COLD WATER DESIGN CRITERIA

PRESSURE @ STREET MAIN					50	psi
PRESSURE LOSS THRU METER					1	psi
PRESSURE LOSS THRU OTHER DEVICES (i.e. BFP)					6	psi
PRESSURE AVAILABLE @ 5' OUTSIDE BLDG.					43	psi
PRESSURE LOSS THRU "PRV" SET @	0	psi			0	psi
PRESSURE LOSS DUE TO HEIGHT	29	X	0.433		12.56	psi
MISC. LOSS					0	psi
PRESSURE REQUIRED @ REMOTE FIXTURE					25	psi
PRESSURE AVAILABLE FOR FRICTION LOSS					5	psi
TOTAL EQUILEVANT LENGTH OF RUN					47	ft
TOTAL DEVELOPED LENGTH OF RUN (EQUILEVANT LENGTH +	30%	)			61	ft
FRICTION LOSS RATE AVAILABLE	5 / 61	X	100	ft.	9	psi/100ft

PIPE SIZING SUMMARY @5psi/100' FRICTION LOSS

PIPE SIZE	COLD WATER				HOT WATER		
	MAX FLOW (GPM)	WSFU (FT)	WSFU (FV)	MAX VELOCITY (FPS)	MAX FLOW (GPM)	WSFU	MAX VELOCITY (FPS)
1/2"	2.4	2	--	3.1	2.4	2	3.1
3/4"	6.5	8	--	4.2	6.5	8	4.2
1"	15	21	--	5.1	12	16	5.0
1 1/4"	23	35	6	6	19	27	5
1 1/2"	32	57	15	6	28	47	5
2"	72	226	109	8	49	120	5
2 1/2"	120	456	330	8	85	276	5
3"	180	779	740	8	110	407	5
4"	290	1584	1584	8	190	841	5
6"	560	3621	3621	8	430	2863	5

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REGISTERED PROFESSIONAL ENGINEER STEPHEN J. HEMINGS No. M020245 MECHANICAL STATE OF CALIFORNIA

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PUSD - FOOTHILL HS 2ND CTE BUILDING

4375 FOOTHILL RD
PLEASANTON, CA 94588

JOB NO. 70125.01
DRAWN SW
CHECKED GH
JOB CAPTAIN
ISSUE

△	DATE	DESCRIPTION

DRAWING TITLE
GENERAL NOTES, LEGEND AND SCHEDULES

SCALE
P0-01

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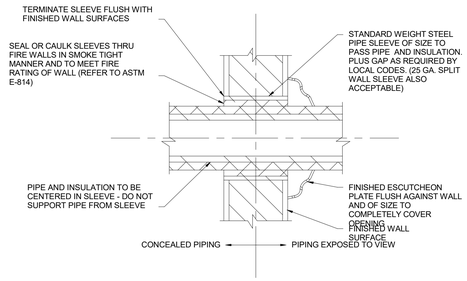
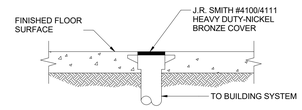
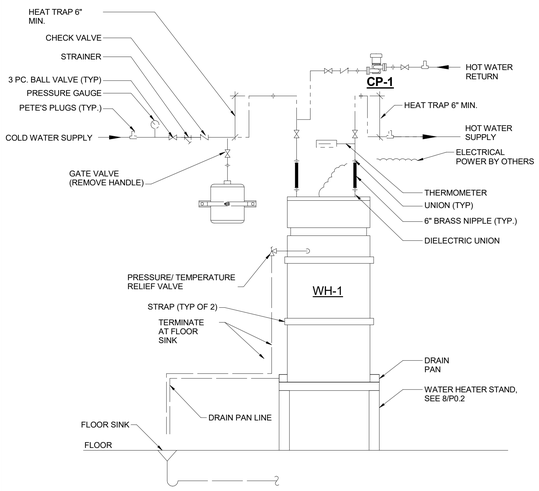


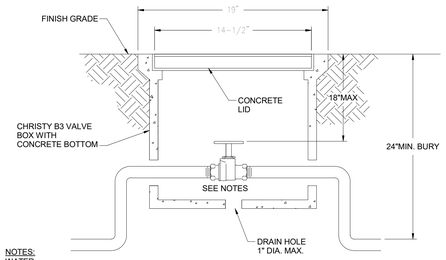
PIPING THRU WALL DETAIL | SCALE: NONE | 10



FLOOR CLEANOUT DETAIL | SCALE: NONE | 6



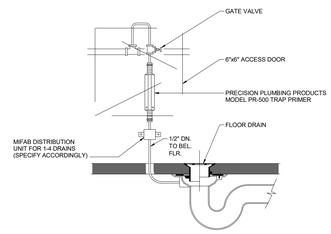
WATER HEATER PIPING DIAGRAM | SCALE: NONE | 2



NOTES:
WATER
UP TO 2": BALL VALVE WITH EXTENDED ROUND HANDLE, NIBCO S-585-80-LF FIELD RETROFITTED WITH CS EXTENDED LEVER HANDLE OR EQUAL
2-1/2" AND ABOVE: USE BALL VALVE

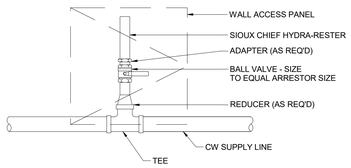
GAS
GAS COCK

SHUT-OFF VALVE IN YARD BOX DETAIL | SCALE: NONE | 9



NOTE: INSTALL ON ALL FLOOR DRAINS.

TRAP PRIMER DETAIL | SCALE: NONE | 5

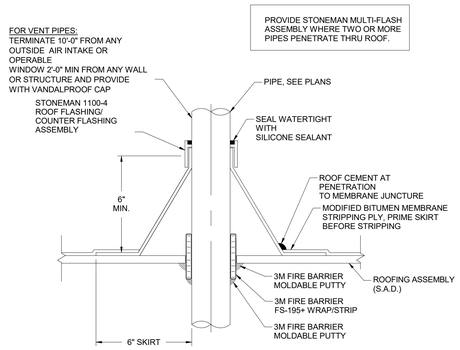


NOTE:
PROVIDE, SIZE, AND LOCATE WATER HAMMER ARRESTORS PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATIONS OF ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION OF ARRESTOR AND APPURTENANCES.

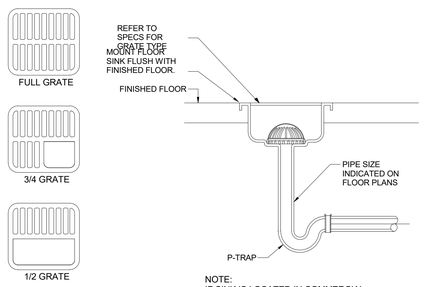
WATER HAMMER ARRESTOR

SIZE	HEIGHT	CHAMBER WIDTH	VOLUME (CU. IN.)	FIXTURE UNITS
1/2"	8 1/4"	1 3/8"	5	1-11
3/4"	10"	1 3/8"	7	12-32
1"	12 1/2"	1 3/8"	11	33-60
1"	11"	2 1/8"	20	61-113
1"	13 1/2"	2 1/8"	29	114-154
1"	16"	2 1/8"	36	155-330

WATER HAMMER ARRESTOR DETAIL | SCALE: NONE | 12

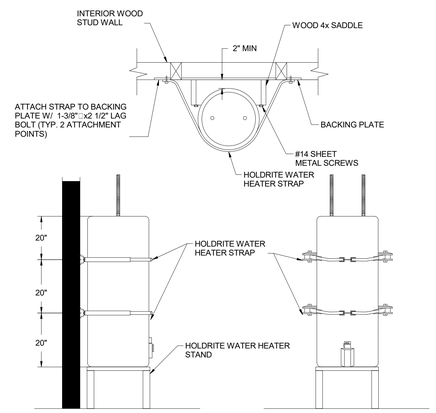


PIPE THRU ROOF DETAIL | SCALE: NONE | 8



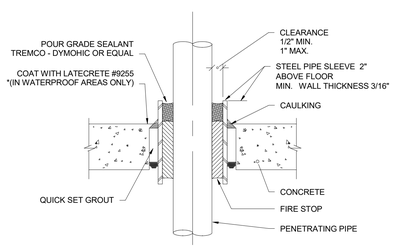
NOTE:
IF SINK IS LOCATED IN COMMERCIAL KITCHEN MOUNT 1" ABOVE FINISHED FLOOR.

FLOOR SINK DETAIL | SCALE: NONE | 4

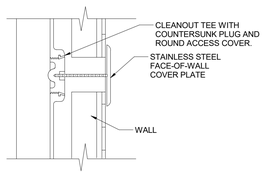


WALL SUPPORT @ WOOD STUD WALL

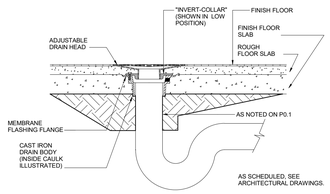
WATER HEATER MOUNTING DETAIL | SCALE: NONE | 1



PIPE PENETRATION THRU FLOOR DETAIL | SCALE: NONE | 11



WALL CLEANOUT DETAIL | SCALE: NONE | 7



FLOOR DRAIN DETAIL | SCALE: NONE | 3

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JOB CAPTAIN
ISSUE

△	DATE	DESCRIPTION

DRAWING TITLE
PLUMBING DETAILS

SCALE
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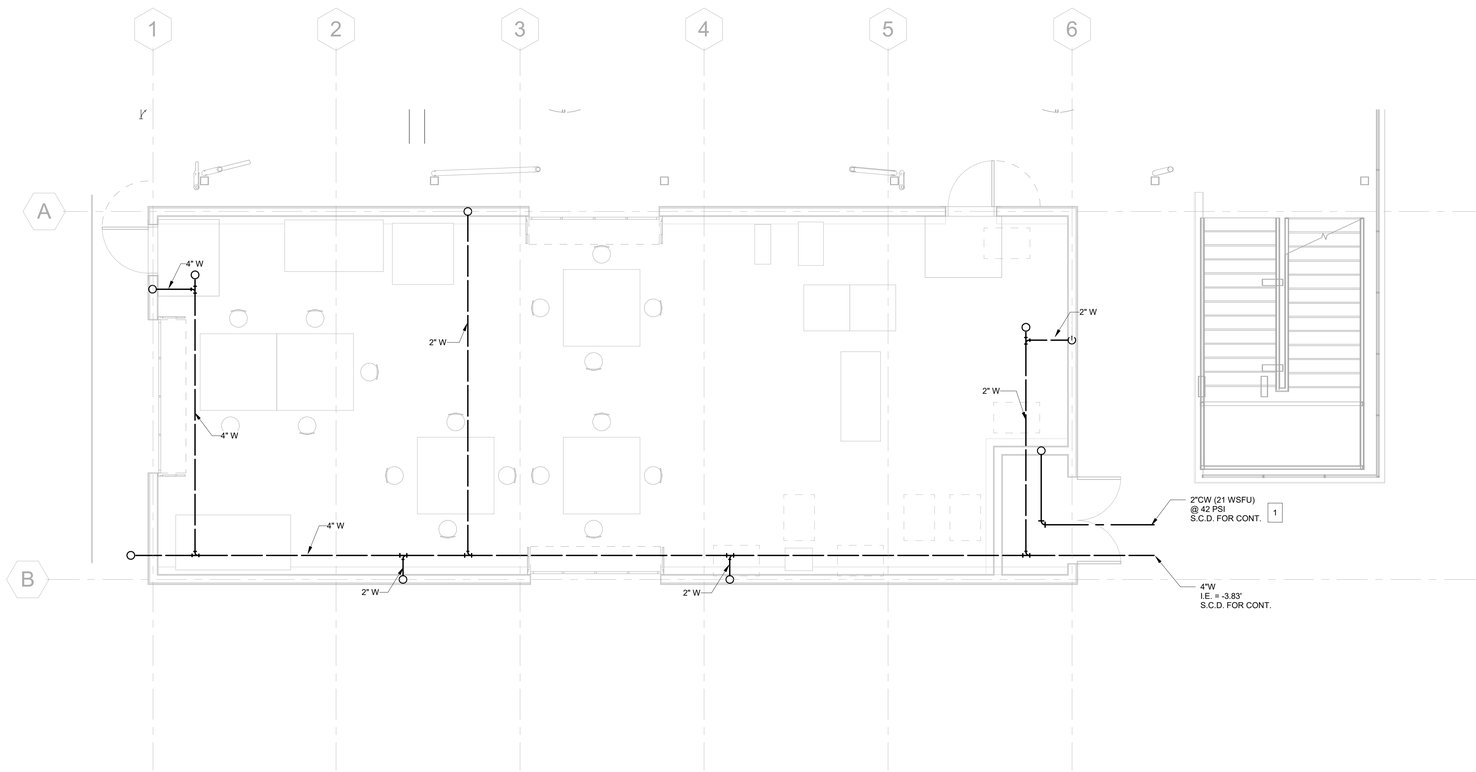
SHEET NOTES:

1 PROVIDE SHUT-OFF VALVE IN YARD BOX. SEE DETAIL 9/P0-03.



1 Plumbing Underfloor Plan
1/4" = 1'-0"

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510-569-2000

PUSD - FOOTHILL HS 2ND CTE BUILDING

4375 FOOTHILL RD
PLEASANTON, CA 94588

JOB NO.	70125.01
DRAWN	SW
CHECKED	GH
JOB CAPTAIN	

ISSUE

△	DATE	DESCRIPTION

DRAWING TITLE
PLUMBING UNDERFLOOR PLAN

SCALE 1/4" = 1'-0"

P2-00

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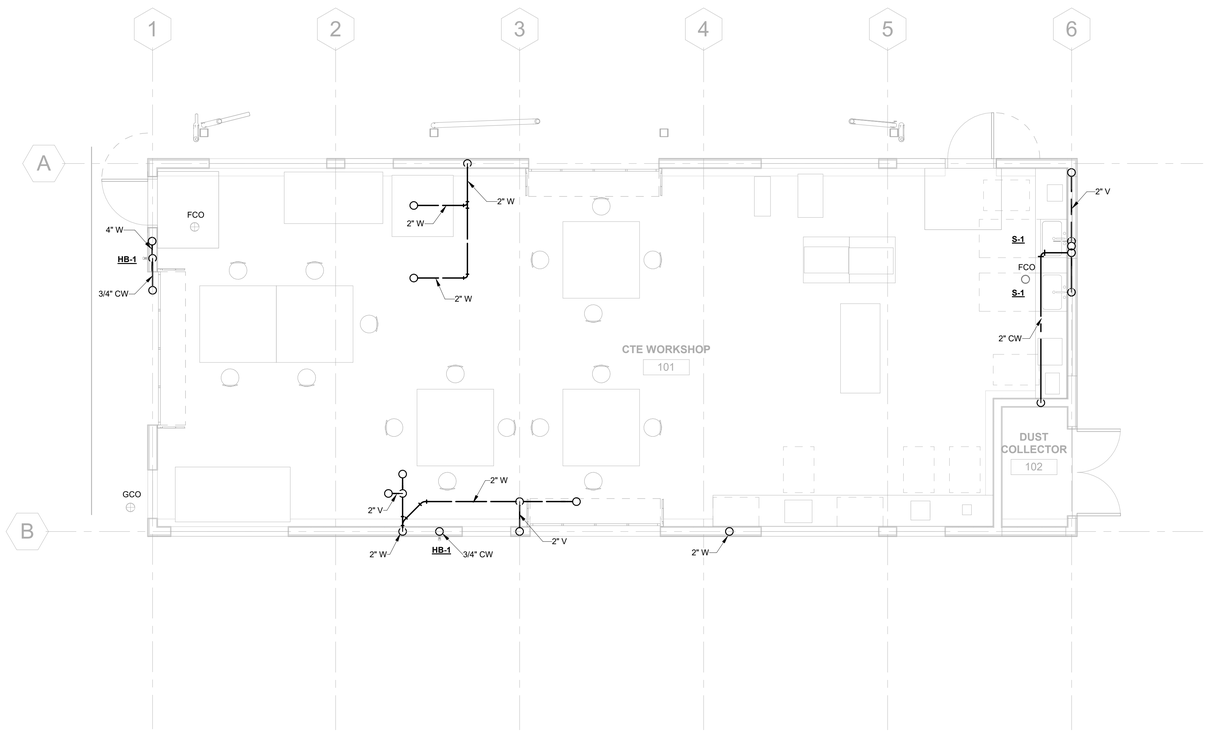

1 Plumbing First Floor Plan
1/4" = 1'-0"

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DRAWING TITLE
PLUMBING FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

P2-01

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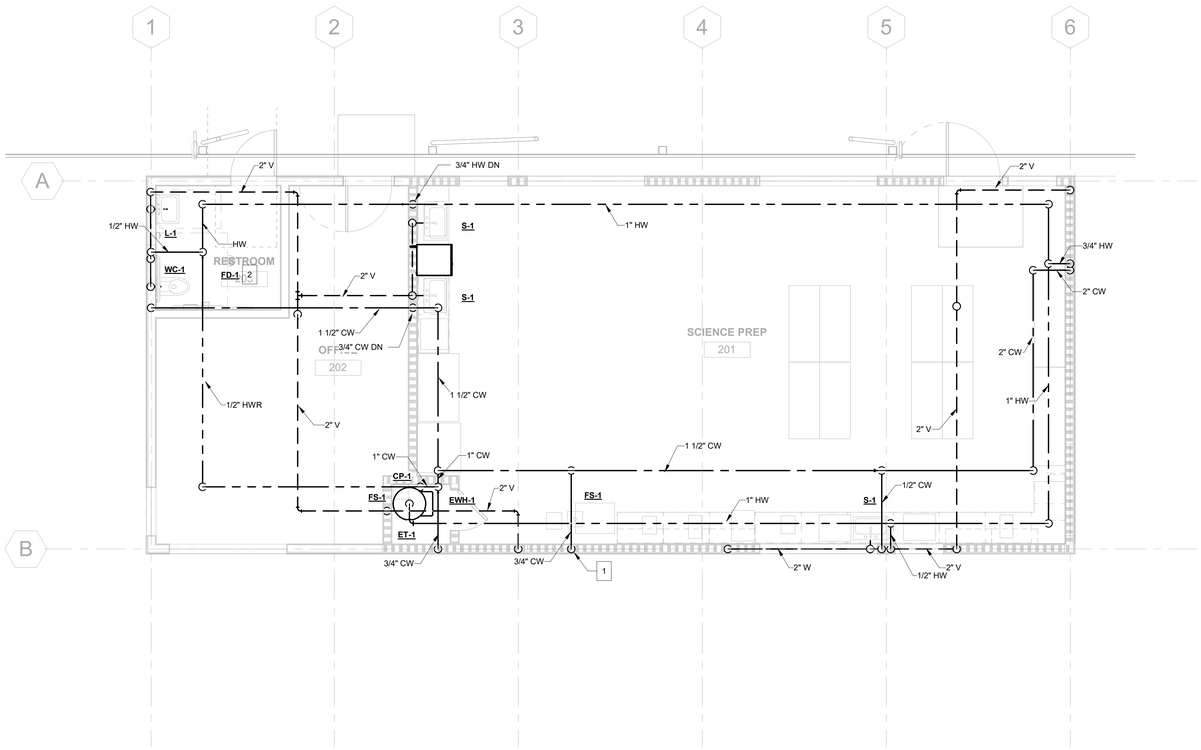
SHEET NOTES:

1. PROVIDE CONNECTION FOR ICE MACHINE AND WATER DISTILLER.
2. PROVIDE 1/2"CW CONNECTION FROM TP-1 IN AP. SEE DETAIL 5/P0-03.



1 Plumbing Second Floor Plan
1/4" = 1'-0"

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DRAWING TITLE
PLUMBING SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

P2-02

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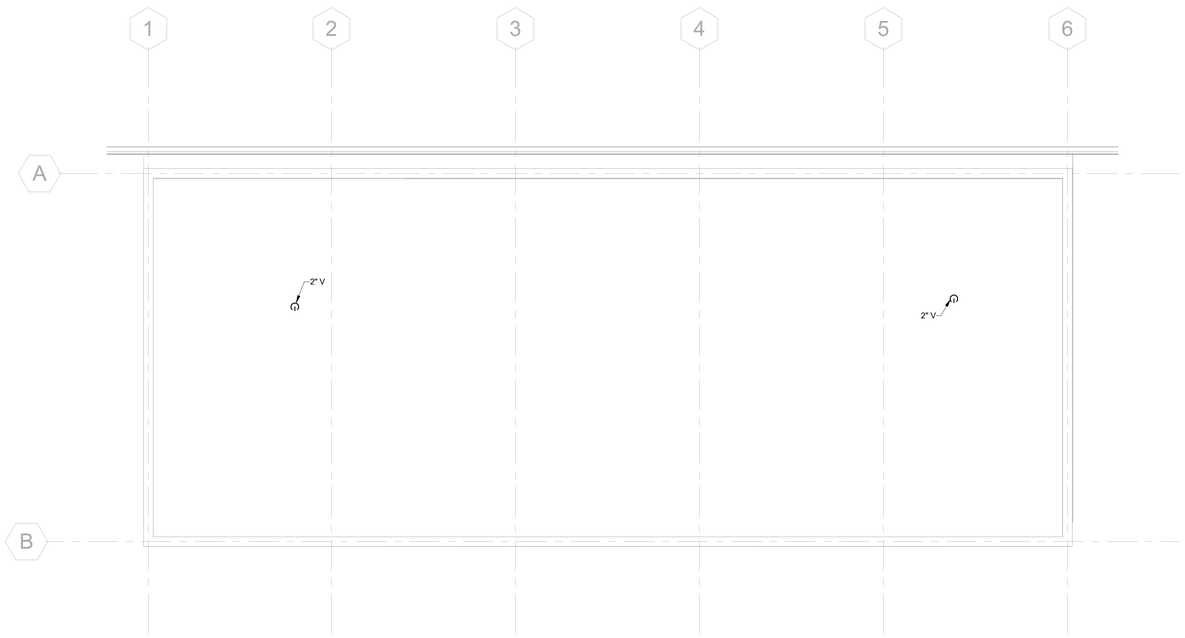

1 Plumbing Roof Plan
1/4" = 1'-0"

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DRAWING TITLE
PLUMBING ROOF PLAN

SCALE 1/4" = 1'-0"

P2-03

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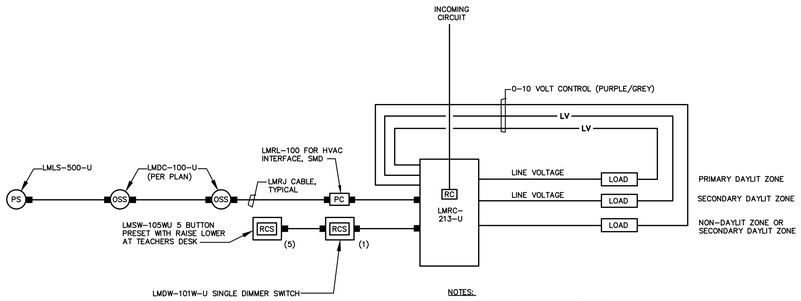
5 / E0.01 LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	WATTS	VOLTS	MOUNTING	NOTES
B	4' ENCLOSED LED	LITHONIA #FSML4E-3000-IMAFL-WD-MV-35K-80CRI	18	277	SURFACE	
C	4' STRIP LED	LITHONIA #ZL1N-L48-3000LM-FST-MVOLT-35K-80CRI-WH	18	277	SURFACE	
C1	8' STRIP LED	LITHONIA #TZL1N-L96-10000LM-FST-MVOLT-35K-80CRI-WH	68	277	CHAIN HUNG	
C2	2' STRIP LED	LITHONIA #ZL1N-L24-1500LM-FST-MVOLT-35K-80CRI-WH	15	277	SURFACE	
E	2'x4' HIGH PERFORMANCE RECESSED LED	FINELITE #HPR-LED-A-2X4-DCO-LED-V-3500K-277-SC-C1	55.1	277	RECESSED T-BAR MOUNTED	
X	EXIT SIGN LED WITH LIGHT HEADS	CHLORIDE #CLCN-G-2R	3	277	WALL	
Y	EMERGENCY BATTERY UNIT	CHLORIDE #CLU2NW	10	277	WALL MOUNT	

FIXTURE SCHEDULE NOTES:

1. VERIFY MOUNTING HEIGHT & LOCATIONS OF ALL FIXTURES WITH ARCHITECT BEFORE ROUGH-IN.
2. ALL INTERIOR LED FIXTURES SHALL HAVE COLOR RENDITION OF 3500K KELVIN.
3. ALL T-BAR MOUNTED FIXTURES SHALL BE SLACK SUPPORTED WITH #12 HANGER WIRE IN OPPOSITE CORNERS TO STRUCTURE ABOVE & SCREWED TO GRID WITH 4 TEK SCREWS OR SIESMIC CLIPS.



NOTES:

1. SEE PLAN FOR EXACT DEVICES PER ROOM.
2. DEVICES ARE WATTSTOPPER DLM OR EQUAL.
3. PC CONTROLLED WITH OCCUPANCY AND 30 MINUTE DELAY OFF.

6 / E0.01 TYPICAL ROOM CONTROLLER

2 / E0.01 GENERAL NOTES

1. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER NEC ARTICLE 230-8.
2. ALL PENETRATIONS THRU RATED ASSEMBLIES SHALL BE FIRE CAULKED.
3. ALL FEEDERS AND BRANCH CIRCUITS SHALL BE CU WIRE WITH THW OR THWN INSULATION.
4. VERIFY EXACT CIRCUIT BREAKER & FUSE SIZE WITH ACTUAL MECHANICAL & PLUMBING EQUIPMENT SUPPLIED & PROVIDE ACCORDINGLY.
5. SEE ARCHITECTURAL DRAWINGS FOR WALL & FLOOR RATING.
6. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY & PROPERLY LABELED CEC110-2.
7. COORDINATE ALL POWER REQUIREMENTS WITH LOW VOLTAGE CONTRACTORS PRIOR TO BID & PROVIDE AS REQUIRED.
8. COORDINATE ALL FIRE SPRINKLER, FSD, & HVAC SHUTDOWN WITH RESPECTIVE CONTRACTOR PRIOR TO BID & PROVIDE CONTROLS AS REQUIRED.
9. ALL PULLBOXES SHALL BE LABELED WITH SERVICE. CABLES INSIDE SHALL BE LABELED WITH SERVICE. SEE SPECIFICATION. PROVIDE AS-BUILT SUMMARY OF PULLBOXES (INTERIOR & EXTERIOR).
10. ALL LOW VOLTAGE OUTLETS SHALL HAVE MINIMUM 1"C FROM DEVICE TO ACCESSIBLE CEILING SPACE OR TO EQUIPMENT ROOM AT HARD CEILING AREAS OR UNDER GROUND.
11. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH OUTLETS PER CEC.
12. ALL COPPER DATA CABLES SHALL BE CAT6A.
13. EMERGENCY LIGHTING MINIMUM 90 MINUTE BACK UP.
14. 2019 CBC, CEC, CMC, CPC AND CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

3 / E0.01 FIRE ALARM SYSTEM

FIRE ALARM SYSTEM PROVIDED UNDER INCREMENT 1

4 / E0.01 ELECTRICAL DRAWING LIST

E0.01	ELECTRICAL LEGEND AND NOTES
E2.01	ELECTRICAL POWER PLAN
E2.02	ELECTRICAL LOW VOLTAGE PLAN
E3.01	ELECTRICAL LIGHTING PLAN
E6.01	ELECTRICAL SINGLE LINE DIAGRAM, LOAD SUMMARY AND NOTES
E7.01	ELECTRICAL LOW VOLTAGE DETAILS

1 / E0.01 LEGEND

AFF	ABOVE FINISHED FLOOR
AFC	AVAILABLE FAULT CURRENT
C	CONDUIT
CEC	CALIFORNIA ELECTRICAL CODE
CKT	CIRCUIT
C.O.	EMPTY CONDUIT WITH PULL WIRE
(E)	EXISTING
GFCI OR GFI	GROUND FAULT CIRCUIT INTERRUPTER DO NOT FEED THRU PROVIDE INDIVIDUAL GFI RECEPTACLES WHERE NOTED
H	HOT
IDF	INTERMEDIATE DATA FACILITY
K	1000
LTG	LIGHTING
MSB	MAIN SWITCHBOARD
N	NEUTRAL
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OSP	OUTSIDE PLANT
PNL	PANEL
PB	PULL BOX
(R)	REMOVE
REC, RECEPT	RECEPTACLE
SAD	SEE ARCHITECTURAL DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SPD	SEE PLUMBING DRAWINGS
SSD	SEE STRUCTURAL DRAWINGS
SWBD	SWITCHBOARD
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
V.L.	VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
XFMR	TRANSFORMER
# / E#	DETAIL OR SHEET REFERENCE
A	LIGHT FIXTURE DESIGNATION SEE LIGHT FIXTURE SCHEDULE.
1	SHEET NOTE REFERENCE
	LED LIGHT FIXTURE. SEE PLANS AND SCHEDULE
	EXIT SIGN WALL MOUNT, +8'-0"
	EMERGENCY BATTERY UNIT
	LIGHT LINES AND SYMBOLS INDICATE EXISTING WORK TO REMIAN OR WORK BY OTHER TRADES.
	HEAVY LINES AND SYMBOLS INDICATE NEW WORK.
	277/480 VOLT 3ø, 4W MAIN SWITCHBOARD
	SURFACE MOUNTED CONTROL/TERMINAL CABINET MOUNTED ON WALL. VERIFY MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN
	FLUSH MOUNTED PANELBOARD/TERMINAL CABINET VERIFY MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN
	120/208 VOLT 3ø, 4W PANELBOARD
	277/480 VOLT 3ø, 4W PANELBOARD
	GROUND CONNECTION
	CONDUIT WITH CONDUCTORS IN SLAB, UNDERFLOOR, OR BELOW GRADE WITH MARKINGS AS INDICATED ABOVE.
D	DATA RACEWAY AND/OR CABLE MIN 1"C.
	HOMERUNS CONTINUING TO PANEL. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. NOT COUNTING GROUND WIRE. NO SLASH MARKS INDICATE 2 #12 COPPER CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT. PROVIDE GROUND CONDUCTOR IN ALL POWER CONDUIT RUNS.
J	JUNCTION BOX. SIZE JUNCTION BOX AS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE. PROVIDE WEATHERPROOF BOXES AT ALL EXTERIOR LOCATIONS.
	20 AMPERE GFCI 5-20R DUPLEX RECEPTACLE MOUNT +18"AFF U.O.N. DO NOT FEED THRU FOR GFCI RECEPTACLES.
WP	20A 120 VOLT WEATHERPROOF DUPLEX RECEPTACLE OUTLET WITH LOCKABLE SELF CLOSING COVER. ALL WEATHERPROOF OUTLETS SHALL BE GFCI TYPE. + 18"AFF U.O.N. DO NOT FEED THRU FOR GFCI RECEPTACLES.
	20A, 120 VOLT DUPLEX RECEPTACLE OUTLET AT +18" AFF. U.O.N. NEMA 5-20R.
	20A, 250 VOLT SINGLE PHASE RECEPTACLE NEMA 6-20R.
	20 AMPERE 120 VOLT FOURFLEX RECEPTACLE OUTLET AT +18"AFF. U.O.N. (2) NEMA 5-20R.
	WALL DATA/VOICE OUTLET +18" U.O.N. (#) INDICATES NUMBER OF JACKS, IF GREATER THAN 2. NO NUMBER INDICATES 2 JACKS PROVIDE CAT6A CABLES TO IDF. PROVIDE CONCEALED 1"C. TO ACCESSIBLE CEILING SPACE. 4 11/16" SQ. BOX WITH SINGLE GANG PLATE. PROVIDE CONDUIT TO PULL BOX AT EXPOSED CEILING.
	MAGNETIC DOOR CONTACT ROUGH-IN. PROVIDE 3/4"C.O. TO ACCESSIBLE CEILING SPACE.
MS	SECURITY MOTION SENSOR NIC SHOWN FOR REFERENCE. PROVIDE RECESSED BOX AT +8'-0" AND 3/4"C. TO ACCESSIBLE CEILING WHERE NOTED. NO BOX OR CONDUIT REQUIRED AT T-BAR CEILING AREAS
KP	SECURITY KEY PAD ROUGH-IN, +48" TO TOP OF BOX. PROVIDE 1"C.O. TO ACCESSIBLE CEILING SPACE.
C	CAMERA OUTLET. PROVIDE FLUSH OUTLET & 1" C.O. TO CEILING SPACE.
BG	BREAK GLASS SENSOR IN CEILING. N.I.C. SHOWN FOR REFERENCE ONLY.
S WP	WEATHERPROOF SPEAKER.
	CLOCK/SPEAKER +8'-0". PROVIDE 1"C. TO ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE CABLE, SAD ELEVATIONS FOR EXACT LOCATION.
PB	PULL BOX MINIMUM SIZE AS INDICATED OR PER CEC. REFER TO DRAWINGS FOR USE
OS	WALL MOUNTED OCCUPANCY SENSOR. +42" U.O.N. WATTSTOPPER #DW-100-W. SET AT 15 MINUTE DELAY OFF.
RC	ROOM CONTROLLER
RCS	ROOM CONTROLLER SWITCH, +42"AFF, U.O.N.
PC	ROOM CONTROLLER RELAY CONTROLLER (FOR HVAC INTERFACE).
PS	ROOM CONTROLLER PHOTO SENSOR.
OSS	ROOM CONTROLLER OCCUPANCY SENSOR CEILING. (NOMINAL 15 MINUTE DELAY OFF)
CR	PULL DOWN CORD REEL WITH TRIPLEX OUTLET.

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CHECKED	M.V.
JOB CAPTAIN	M.V.

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DRAWING TITLE

ELECTRICAL
LEGEND AND NOTES

SCALE: AS NOTED

E0.01

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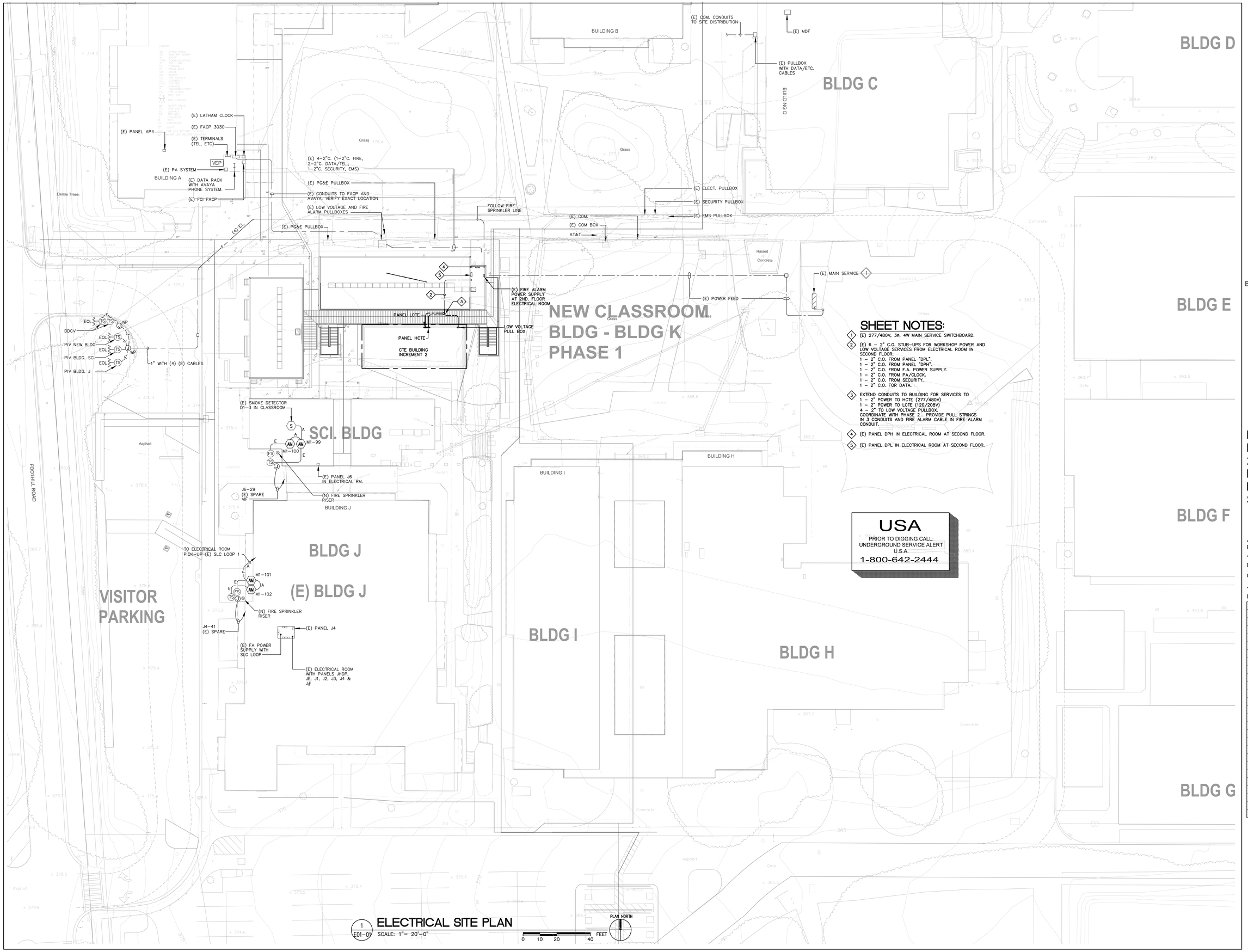

1 E01-01 ELECTRICAL SITE PLAN
SCALE: 1"= 20'-0"

SHEET NOTES:

1. (E) 277/480V, 3ø, 4W MAIN SERVICE SWITCHBOARD.
2. (E) 6 – 2" C.O. STUB-UPS FOR WORKSHOP POWER AND LOW VOLTAGE SERVICES FROM ELECTRICAL ROOM IN SECOND FLOOR.
   1 – 2" C.O. FROM PANEL "DPL".
   1 – 2" C.O. FROM PANEL "DPH".
   1 – 2" C.O. FROM F.A. POWER SUPPLY.
   1 – 2" C.O. FROM PA/CLOCK.
   1 – 2" C.O. FROM SECURITY.
   1 – 2" C.O. FOR DATA.
3. EXTEND CONDUITS TO BUILDING FOR SERVICES TO
   1 – 2" POWER TO HCTE (277/480V)
   1 – 2" POWER TO LCTE (120/208V)
   4 – 2" TO LOW VOLTAGE PULLBOX.
   COORDINATE WITH PHASE 2 . PROVIDE PULL STRINGS IN 3 CONDUITS AND FIRE ALARM CABLE IN FIRE ALARM CONDUIT.
4. (E) PANEL DPH IN ELECTRICAL ROOM AT SECOND FLOOR.
5. (E) PANEL DPL IN ELECTRICAL ROOM AT SECOND FLOOR.

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STATE OF CALIFORNIA

DATE SIGNED: Apr 16,21

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ELECTRICAL
SITE PLAN

FOR REFERENCE ONLY

SCALE: AS NOTED

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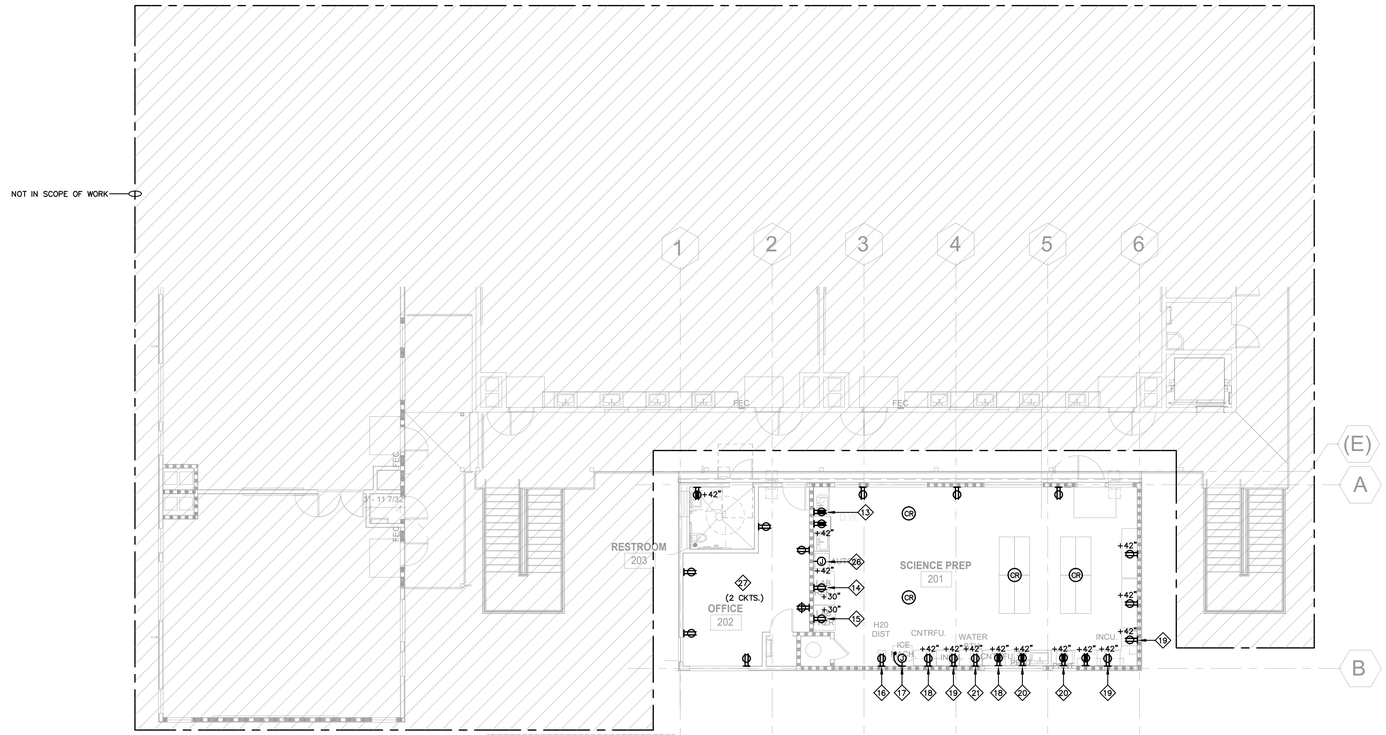
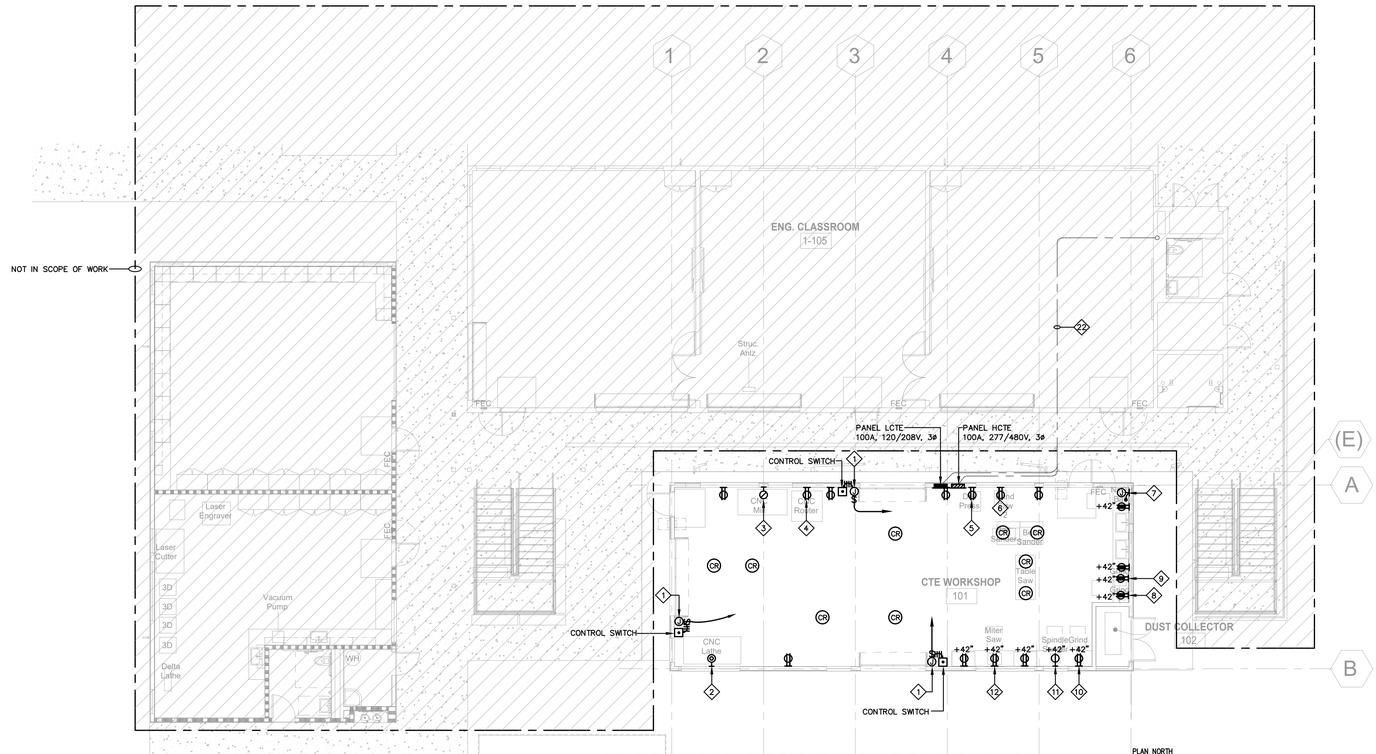


2 E02-01 ELECTRICAL SECOND FLOOR POWER PLAN

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

0 4' 8' 16' FEET

PLAN NORTH



1 E02-01 ELECTRICAL FIRST FLOOR POWER PLAN

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

4' 8' 16' FEET

PLAN NORTH

SHEET NOTES:

1. POWER FOR STACK ROLL UP DOOR. VERIFY EXACT REQUIREMENTS WITH DOOR PROVIDED AND MAKE FINAL CONNECTIONS.
2. POWER FOR CNC LATHE 220V/440V. 3ø, 60 HZ. VERIFY OUTLET WITH EQUIPMENT.
3. POWER FOR CNC MILL 220V.
4. POWER FOR CNC ROUTER. 110V, 20A.
5. POWER FOR DRILL PRESS, 3/4 HP, 120V, 1 PHASE.
6. POWER FOR BANDSAW. 115V, 3.5A, 60 HZ.
7. POWER FOR SODIUM HYDROXIDE BATH. 220V.
8. POWER FOR BENCH GRINDER. 115V, 3.5 AMP.
9. POWER FOR BENCH GRINDER AND POLISHER. 120V, 4 AMP.
10. POWER FOR BENCH GRINDER AND WIRE WHEEL. 120V, 15 AMP.
11. POWER FOR SPINDLE SANDER. 115V, 30 AMP.
12. POWER FOR 12" COMPOUND SLIDING MITER SAW. 115V, 20 AMP.
13. RECEPTACLE BELOW SINK FOR DISHWASHER.
14. RECEPTACLE FOR REFRIGERATOR +30"AFF. 115V, 5 AMP.
15. RECEPTACLE FOR FREEZER. 115V, 5 AMP.
16. RECEPTACLE FOR WATER DISTILLER. 120V, 13 AMP.
17. POWER HARDWIRED FOR ICE MACHINE. 115V, 15.2A.
18. RECEPTACLE FOR MICRO CENTRIFUGE
19. RECEPTACLE FOR INCUBATOR. 115V.
20. RECEPTACLE FOR 3D PRINTER. 120V, 15A, 1ø, 60 ZH.
21. RECEPTACLE FOR WATER BATH. 115V.
22. (E) CONDUITS TO CTE WORKSHOP FOR PANELS HCTE & LCTE. SEE INCREMENT 1.
23. NOT USED.
24. NOT USED.
25. NOT USED.
26. POWER FOR AUTOCLAVE. 220V, 2200 WATTS.
27. SWITCHED RECEPTACLE NOT REQUIRED DUE TO NO NEW ELECTRICAL SERVICE.

GENERAL NOTES:

1. VERIFY ALL EQUIPMENT POWER REQUIREMENTS WITH ACTUAL EQUIPMENT SUPPLIED.

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ELECTRICAL POWER PLAN

SCALE: AS NOTED

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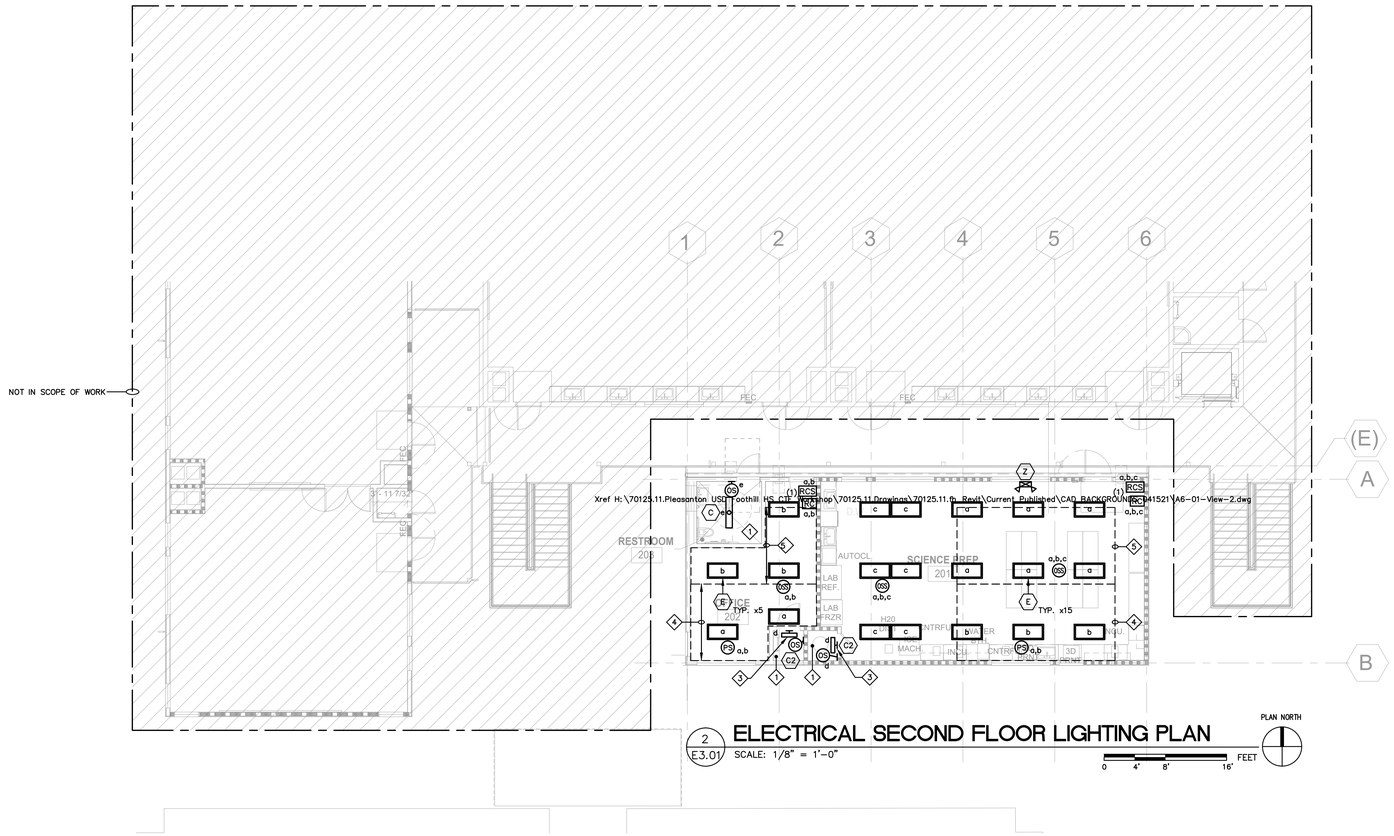
SHEET NOTES:

1. LPD IS LESS THAN 0.5 W/SQ. FT. OR ROOM LESS THAN 100 SQ. FT. MULTI-LEVEL CONTROL NOT REQUIRED.
2. NOT USED.
3. WALL MOUNT ABOVE DOOR.
4. PRIMARY DAYLIT ZONE.
5. SECONDARY DAYLIT ZONE.

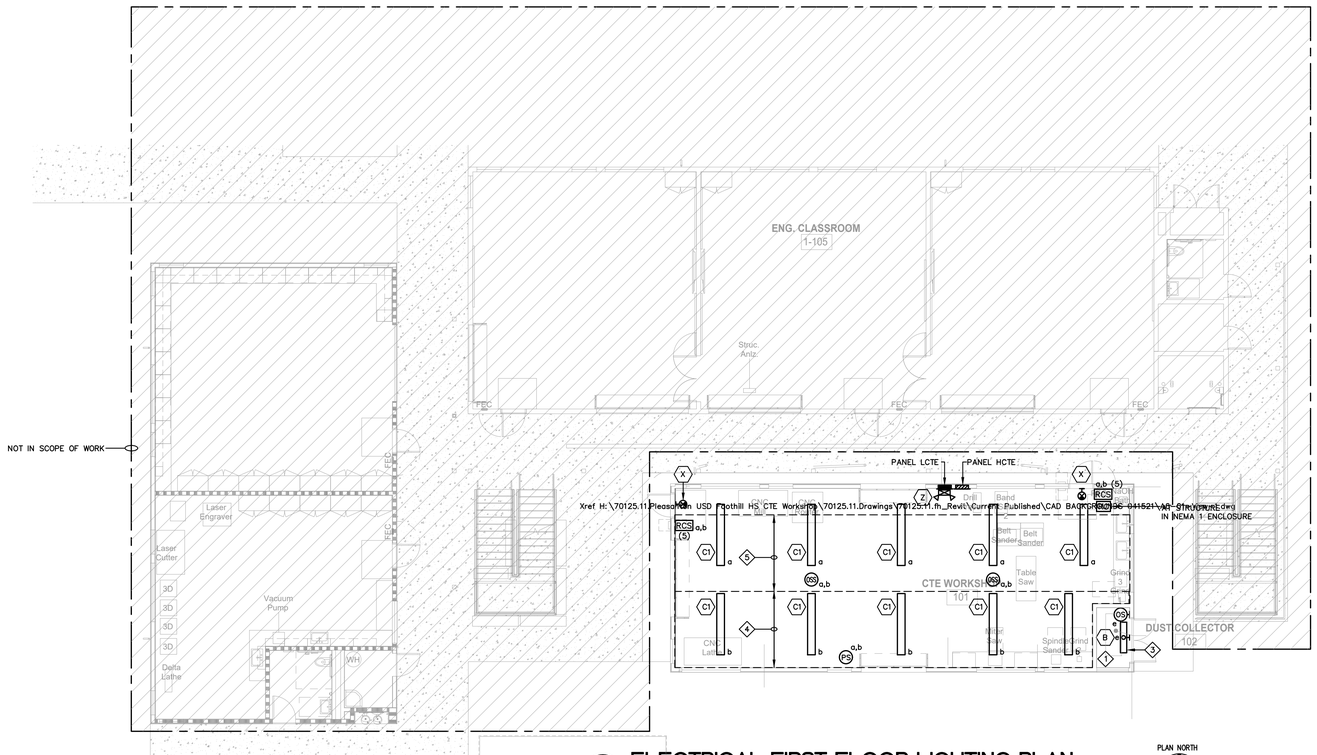


2 E3.01 ELECTRICAL SECOND FLOOR LIGHTING PLAN

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

PLAN NORTH

0 4' 8' 16' FEET



1 E3.01 ELECTRICAL FIRST FLOOR LIGHTING PLAN

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

PLAN NORTH

0 4' 8' 16' FEET

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ELECTRICAL LIGHTING PLAN

SCALE: AS NOTED

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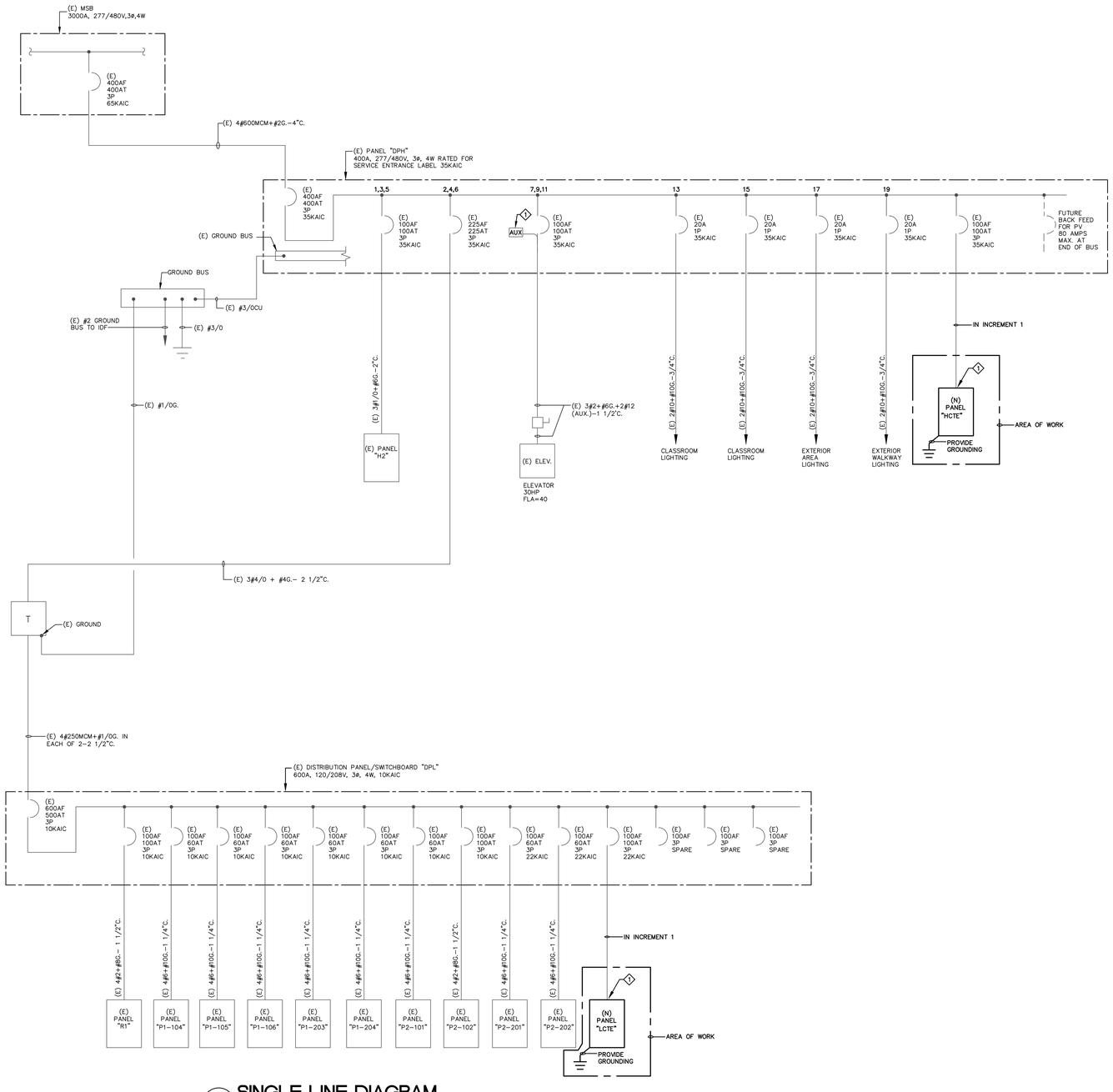

1 E06–01 **SINGLE LINE DIAGRAM**
SCALE: NTS

SHEET NOTES:

1. COORDINATE WITH INCREMENT 1 FOR FEEDER INSTALLATION.

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18071.02
JOB NUMBER
BWF CONSULTING ENGINEERS
ELECTRICAL ENGINEERS
220 SO. SPRUCE AVENUE, SUITE 203
SO. SAN FRANCISCO, CALIFORNIA 94080
(650) 871–0220

PUSD - FOOTHILL HS 2ND CTE INCREMENT 2 SCIENCE PREP BUILDING

4375 FOOTHILL RD
PLEASANTON, CA 94588

JOB NO.	70125.01
DRAWN	S.M.
CHECKED	M.V.
JOB CAPTAIN	M.V.

ISSUE

△	DATE	DESCRIPTION
	04-06-21	100% DD

DRAWING TITLE

ELECTRICAL
SINGLE LINE DIAGRAM

SCALE: AS NOTED

E6.01

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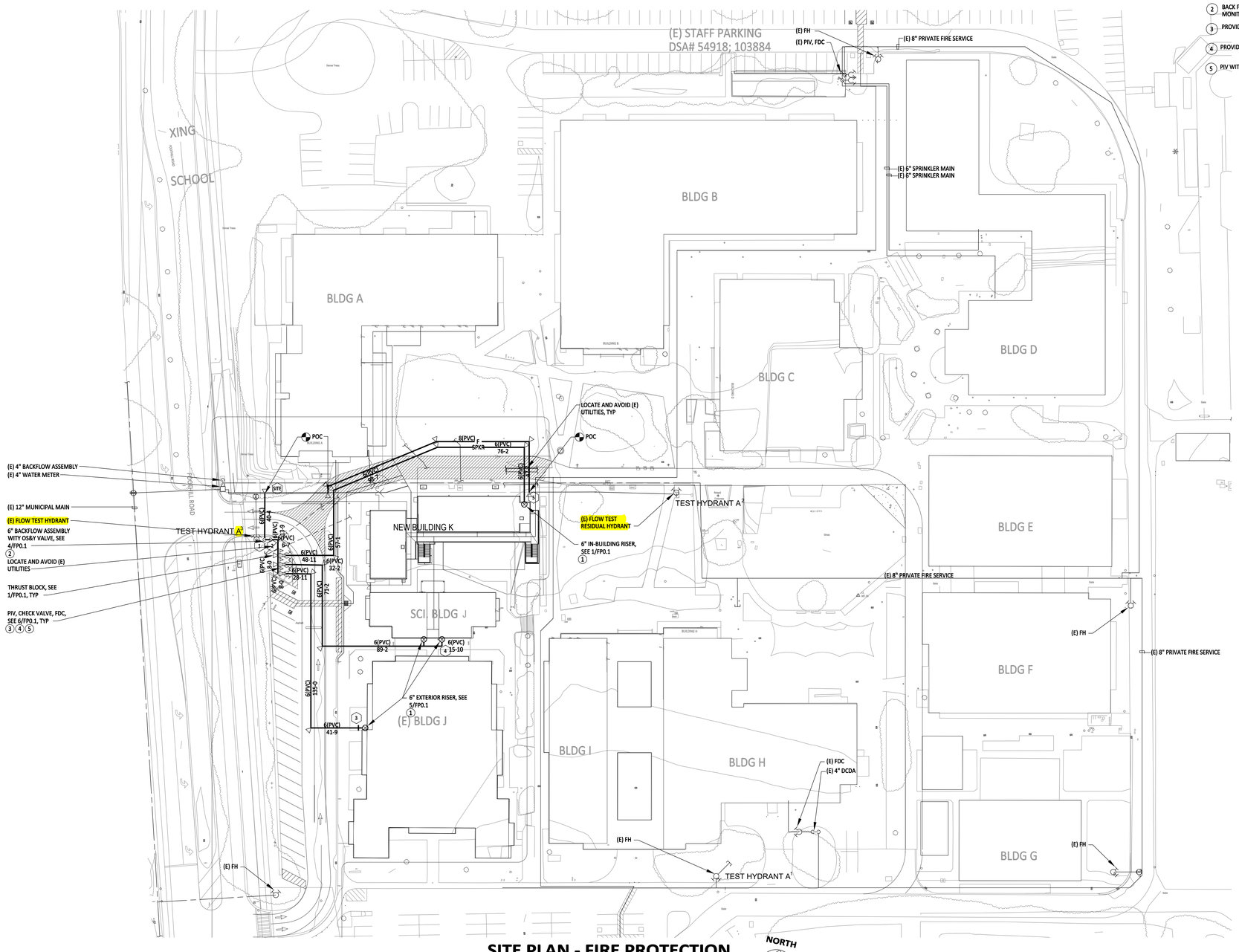
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-118637 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/04/2020

KEY NOTES

1. FIRE SPRINKLER RISER WITH CONTROL VALVE AND FLOW SWITCH THAT REQUIRES MONITORING BY THE FIRE ALARM SYSTEM.
2. BACK FLOW ASSEMBLY OS&Y VALVES WITH TAMPER SWITCH THAT REQUIRES MONITORING BY THE FIRE ALARM SYSTEM
3. PROVIDE SIGN PERMANENTLY ATTACHED TO THE FDC SIGN INDICATING BUILDING SERVED.
4. PROVIDE SIGN PERMANENTLY ATTACHED TO THE PIV SIGN INDICATING BUILDING SERVED.
5. PIV WITH TAMPER SWITCH THAT REQUIRES MONITORING BY FIRE ALARM SYSTEM.



SITE PLAN - FIRE PROTECTION

SCALE: 1" = 40'-0"

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FOOTHILL HIGH SCHOOL CLASSROOM BUILDING

4375 FOOTHILL RD
PLEASANTON, CA 94588

JOB NO.	70125.01
DRAWN	CADD
CHECKED	SER
JOB CAPTAIN	SER

ISSUE

	DATE	DESCRIPTION
	01/18/19	100% SD
	07/09/19	100% DD
	10/23/19	50% CD
	11/27/19	DSA Intake
	7/31/20	BACKCHECK

DRAWING TITLE
SITE PLAN - FIRE PROTECTION

FOR REFERENCE ONLY

REGISTERED PROFESSIONAL ENGINEER
STEVEN E. RAMSOR
No. M30657
EXP. JUNE 30, 2021
MECHANICAL
STATE OF CALIFORNIA

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CONSULTING ENGINEERS
AE Project # 20190035
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Monterey, California 93940-5788

SCALE 1" = 40' - 0"

FP1.1

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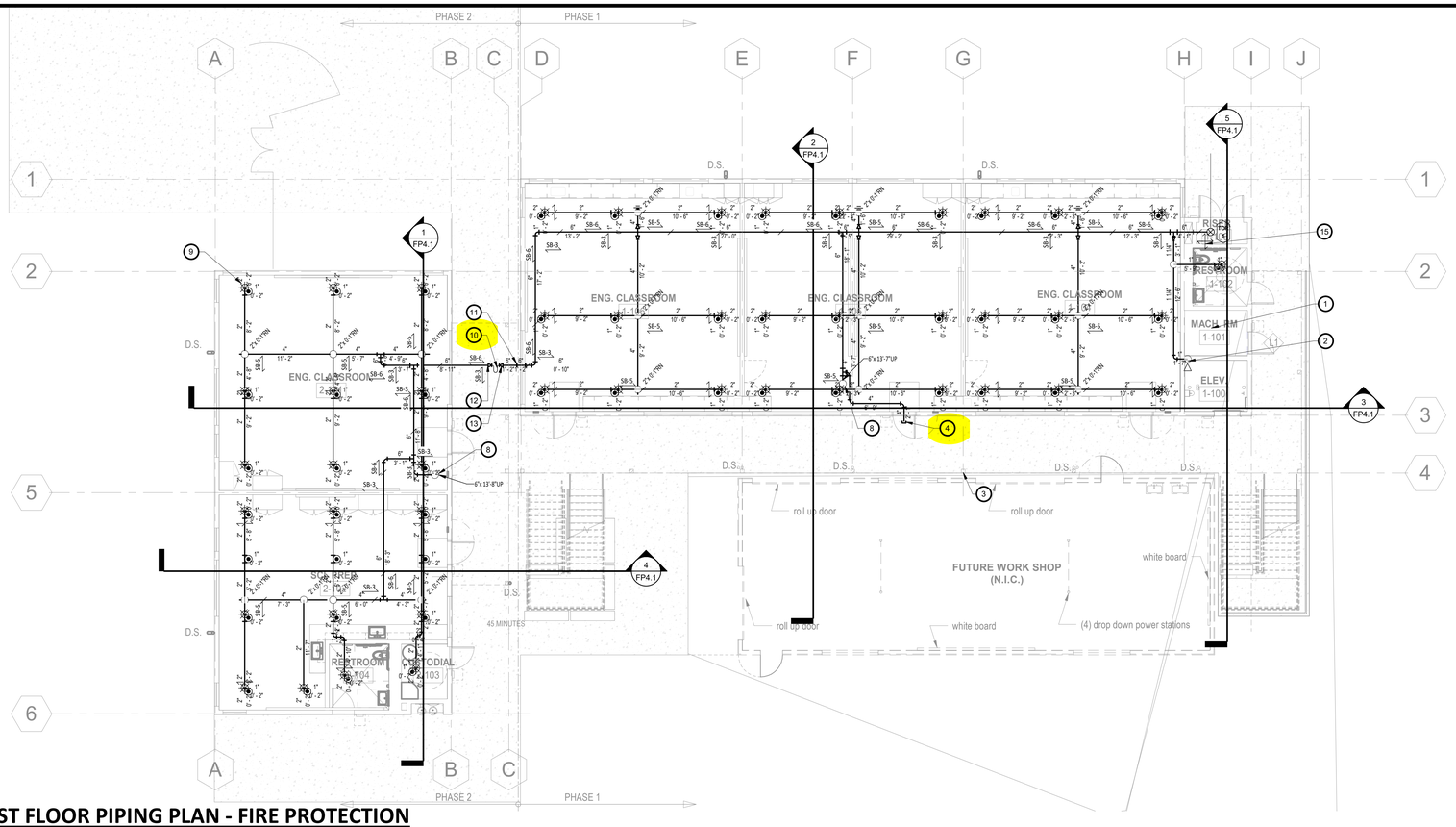
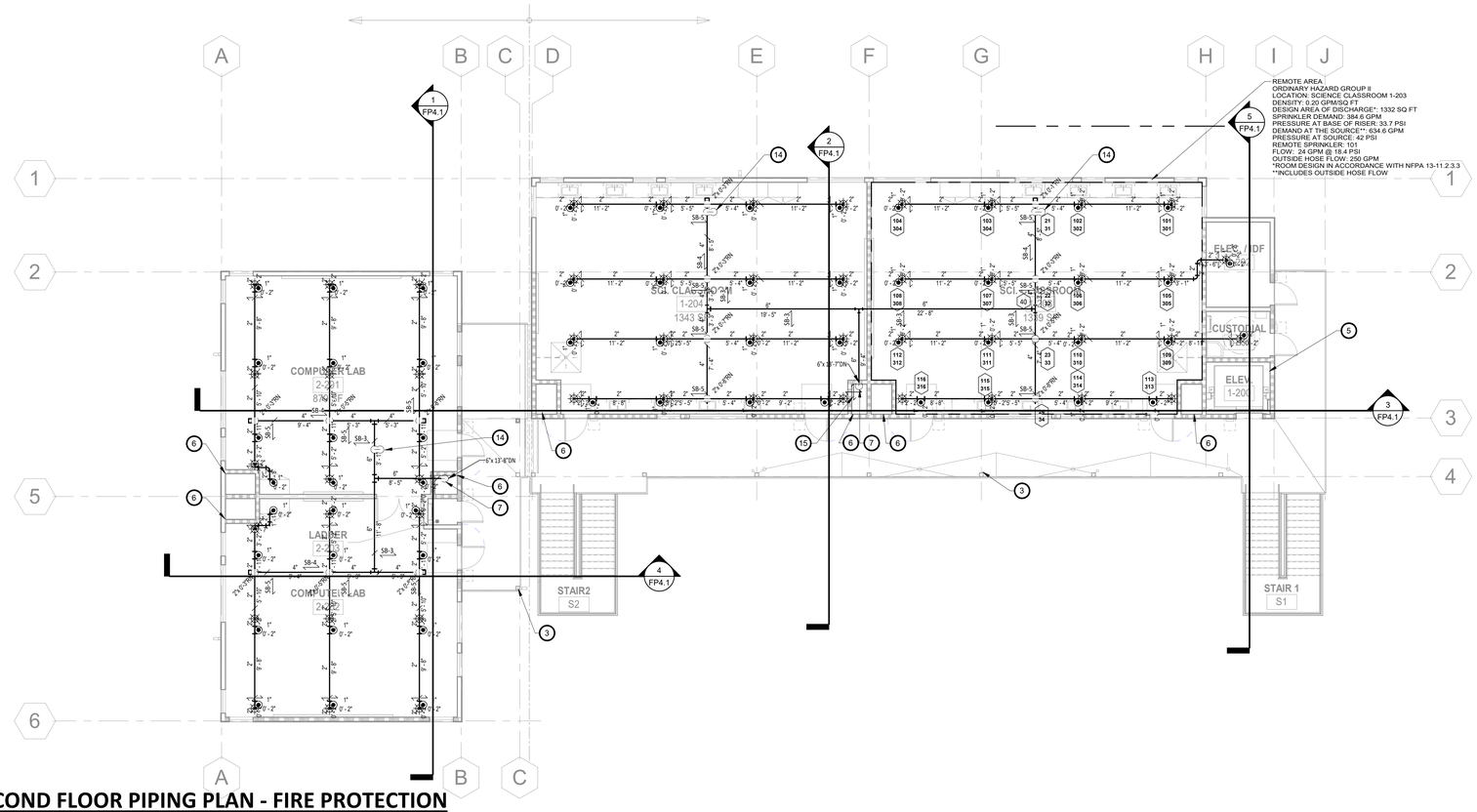
7/28/2020 1:53:56 PM



1 FP2.1 FIRST FLOOR PIPING PLAN - FIRE PROTECTION

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



2 FP2.1 SECOND FLOOR PIPING PLAN - FIRE PROTECTION

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

SPRINKLERS

SYMBOL	DESCRIPTION	MANF.	MODEL	SIN	TYPE	K FACTOR	TEMP. RATING	QTY	REMARKS
●	PENDENT ON 401 EXTENSION	TYCO	TY-FRB	3231	SSP	5.6	155° F	0	1 2
⊙	RECESSED PENDENT	TYCO	TY-FRB	3231	SSP	5.6	155° F	108	1 3
○	UPRIGHT ON BRANCH LINE	TYCO	TY-FRB	3131	SSU	5.6	155° F	0	
◎	UPRIGHT ON SPRIG UP	TYCO	TY-FRB	3131	SSU	5.6	155° F	0	
✳	FLAT SPRAY UPRIGHT	TYCO	CC3	3199	FSU	5.6	200° F	99	1 3
△	SIDEWALL	TYCO	TY-FRB	3331	SSP	5.6	155° F	1	
TOTAL SPRINKLERS (THIS SHEET)								208	
TOTAL SPRINKLERS (SCIENCE CLASSROOMS)								208	

1. FINISH TO MATCH ADJACENT MATERIAL VERIFY WITH ARCHITECT
2. PENDENT ON 401 EXTENSION
3. FOR LAY IN PANEL SUSPENDED CEIILNG PROVIDE 1" ANNULAR CLEARANCE AROUND RECESSED ESCUTCHEON. CONCEAL OVERSIZE HOLE WITH VIKING 12620 EXPANSION PLATE. FINISH TO MATCH ADJACENT MATERIAL VERIFY WITH ARCHITECT.

NOTES:

1. ALL PIPE 1-1/2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON THREADED FITTINGS IN ACCORDANCE WITH ANSI B16.4
2. ALL PIPE 2" AND GREATER SHALL BE SCHEDULE 10 BLACK WITH GROOVED COUPLINGS AND WELDED OUTLETS
3. ALL PIPE 1 1/2" AND SMALLER SHALL HAVE SUPPORT SPACING LESS THAN 12 FEET
4. ALL PIPE 2" AND GREATER SHALL HAVE SUPPORT SPACING LESS THAN 15 FEET
5. BRANCH LINES SHALL BE RESTRAINED AT THE END OF BRANCH LINE, AND AT INTERVALS NOT EXCEEDING 30FT. SEE 5/FP6.1 AND 10/FP6.1 FOR RESTRAINT
6. PROVIDE 1" ANNULAR CLEARANCE AT ALL SPRINKLER PENETRATIONS OF LAY IN PANEL SUSPENDED CEILINGS.
7. FOR LAY IN PANEL SUSPENDED CEILINGS, PROVIDE 1" ANNULAR CLEARANCE AROUND RECESSED ESCUTCHEON. CONCEAL OVERSIZED HOLE WITH VIKING 1260 EXPANSION PLATE. FINISH TO MATCH ADJACENT MATERIAL. VERIFY WITH ARCHITECT.
8. ALL DIMENSIONS ARE FITTING TO FITTING UNLESS OTHERWISE NOTED. NOTE: CHANGE IN MODELED FITTING TYPE WILL AFFECT THESE DIMENSIONS. CONTRACTOR SHALL VERIFY FITTING TYPE AND CUT DIMENEIONS OF PIPE

KEY NOTES: (#)

1. SPRINKLER IN ELEVATOR EQUIPMENT ROOM NOT REQUIRED PER 2016 CFC AMENDMENT TO NFPA 13-8.15.5.3, PROVIDE SIGNAGE ~~"IYUM OF 5" 1-1/2" ON CONTRASTING BACKGROUND: " NO COMBUSTIBLES STORAGE PERMITTED IN THIS ROOM"~~, SEE ARCHITECTS DRAWINGS, A2.1 AND A2.11
2. SIDEWALL SPRINKLER AT BOTTOM OF HOISTWAY NOT MORE THAN 24" ABOVE THE FLOOR OF THE PIT PER NFPA 13-8.15.5.1
3. NON-COMBUSTIBLE EXTERIOR WALKWAY, SPRINKLERS NOT REQUIRED PER NFPA 13-8.15.7.2, TYP
4. COUPLING AND CAP FOR FUTURE WORK SHOP BUILDING 1 FT OUT FROM EXTERIOR WALL
5. NON-COMBUSTIBLE HOISTWAY CAR ENCLOSURE MATERIALS COMPLY WITH ASME A17.1 SPRINKLER AT TOP OF HOISEWAY NOT REQUIRED IN ACCORDANCE WITH NFPA 13-8.15.5.6
6. NON-COMBUSTIBLE, NONACCESSIBLE VERTICAL SHAFT. SPRINKLERS NOT REQUIRED PER NFPA 13-8.15.2.1.2
7. FEED MAIN FROM BELOW, SEE 1/FP2.1 FOR CONTINUIATION
8. UP TO SECOND FLOOR FEED MAIN, SEE 2/FP2.1 FOR CONTINUIATION
9. INSTALL TYCO CC3, SPECIAL APPLICATION SPRINKLER, IN COMBUSTIBLE CONCEALED SPACE WHERE THE DEPTH IS 36" OR LESS PER NFPA 13-8.15.1.6, TYP
10. 6" MLUG16040O METRAFLEX SEISMIC FIRE LOOP, SEE 12/FP6.1
11. FLEX COUPLING WITHIN 1'-0" OF WALL PENETRATION NO CLEARANCE REQUIRED PER NFPA 13-9.3.4.5 FIRE CAULK PENETRATION SEE 15/FP6.1
12. 4-WAY BRACE DOWN STREAM OF SEISMIC ASSEMBLY IN ACCORDANCE WITH NFPA 13-9.3.3.3, PROVIDED BY LATERAL AND LONGITUDINAL SEISMIC BRACE.
13. 4-WAY BRACE UPSTREAM OF SEISMIC ASSEMBLY IN ACCORDANCE WITH NFPA 13-9.3.3.3, PROVIDED BY LATERAL AND LONGITUDINAL SEISMIC BRACE.
14. 1/2" AUTOMATIC AIR VENT PER NFPA 13-7.1.5 AND 8.16.6, SEE 11/FP6.2
15. 4-WAY BRACE, SEE 12/FP6.2

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FOOTHILL HIGH SCHOOL CLASSROOM BUILDING

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JOB NO.	20190035
DRAWN	Author
CHECKED	Checker
JOB CAPTAIN	Approver

ISSUE

△	DATE	DESCRIPTION
	01/18/19	100% SD
	7/9/19	100%DD
	10/23/19	50%CD
	11/26/19	DSA Initake
	7/31/20	BACKCHECK

DRAWING TITLE
PIPING PLAN - FIRE PROTECTION BUILDING K

FOR REFERENCE ONLY

SCALE 1/8" = 1'-0"

FP2.1

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