HESTER SCHOOL
RESTROOMS & LIFE-LAB ALTERATIONS
SANTA CLARA COUNTY OFFICE OF EDUCATION
1480 THE ALAMEDA, SAN JOSE CALIFORNIA 95126

PTN # 10439-55

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Consultant Seal

SYMBOL LEGEND

ROOM IDENTIFICATION
CLASSROOM — Room Name
A101 — Room Number
A8.01 — Sheet # Where Interior Elevations are Located

01 — DEMOLITION KEY NOTE NUMBER
01 — KEY NOTE NUMBER
A — PARTITION TYPE
WIDTH 36 34 HEIGHT, LOCK 100 24 DEPTH — CASEWORK IDENTIFICATION
+ 10'-0" — CEILING HEIGHT
A — WINDOW TYPE
A101.1 — DOOR IDENTIFICATION
CONTROL POINT

1 — GRID IDENTIFICATION
1 / A7.01 — BUILDING SECTION
1 / 2 — DETAIL CUT
N — NORTH ARROW
B, A, C, D; 12 / A8.02 — INTERIOR ELEVATIONS, DETAIL NUMBER, SHEET NUMBER, ELEVATION REFERENCE

ABBREVIATIONS

A.C.	ASPHALT CONCRETE
ACCESS.	ACCESSIBLE
A.F.F.	ABOVE FINISH FLOOR
ARCH.	ARCHITECTURAL
ASSEM.	ASSEMBLY
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
CAB.	CABINET
C.B.	CATCH BASIN
CEM.	CEMENT
CER.	CERAMIC
C.I.	CAST IRON
C.J.	CONTROL JOINT
CLR.	CLEAR
CLKG.	CAULKING
COL.	COLUMN
CONC.	CONCRETE
CONF.	CONFERENCE
CONN.	CONNECTION
CONT.	CONTINUOS
CORR.	CORRIDOR
C.P.F.	CEMENT PLASTER FINISH SYSTEM
CTSK.	COUNTERSINK
CTR.	CENTER
C.W.	COLD WATER
DBL.	DOUBLE
D.F.	DRINKING FOUNTAIN
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
DS.	DOWNSPOUT
DWG.	DRAWING
EA.	EACH
E.J.	EXPANSION JOINT
ELEV.	ELEVATION
ELEC.	ELECTRICAL
EQ.	EQUAL
(E)	EXISTING
EXT.	EXTERIOR
EXP.	EXPANSION
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.H.	FIRE HYDRANT
FHWS	FLAT HEAD WOOD SCREW
FIN.	FINISH
F.F.	FINISH FLOOR
F.P.	FIRE PROTECTION
FT.	FOOT
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.I.	GALVANIZED IRON
G.W.B.	GYPSUM WALL BOARD
GYP.	GYPSUM
H.B.	HOSE BIB
I.D.	INSIDE DIAMETER
IN.	INCH
INFO.	INFORMATION
INSUL.	INSULATION
LAV.	LAVATORY
MAX.	MAXIMUM
MTL.	METAL
MFR.	MANUFACTURER
M.H.	MAN HOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
(N)	NEW
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPP.	OPPOSITE
PAV.	PAVING
P.D.F.	POWDER DRIVEN FASTENER
PL.	PLATE
P.T.D.	PAPER TOWEL DISPENSER
RAD.	RADIUS
REF.	REFRIGERATOR
RM.	ROOM
R.D.	ROOF DRAIN
REQ.	REQUIRED
R.C.P.	REFLECTED CEILING PLAN
RVL.	REVEAL
R.W.L.	RAIN WATER LEADER
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.C.	SOLID CORE
S.D.	SOAP DISPENSER
SEC.	SECTION
SHT.	SHEET
SIM	SIMILAR
S.M.S.	SHEET METAL SCREW
SPEC.	SPECIFICATION
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
S.S.D.	SEE STRUCTURAL DRAWINGS
T.C.	TOP OF CURB
TEL	TELEPHONE
T.O.P.	TOP OF PARAPET
T.P.	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
T.W.	TOP OF WALL
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W / O	WITHOUT
W.P.	WATERPROOF
W.R.	WATER RESISTANT
W.S.	WEATHER STRIPPING

ADMINISTRATIVE REQUIREMENTS

1. A COPY OF PARTS 1-5 AND 9, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART I, TITLE 24 CCR.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED TESTS AND INSPECTIONS SHEET.
4. TESTS OF MATERIALS SHALL AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335, PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST SHALL BE PER GENERAL CONDITIONS.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
6. INSPECTOR SHALL BE APPROVED BY DSA AND EMPLOYED BY DISTRICT. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341, PART 1, TITLE 24.
10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART1, TITLE 24.
11. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
12. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN LET SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) AS REQUIRED IN SECTION 4-338, PART 1, CAC, AND SHALL BE SUBMITTED TO BE APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. CONSTRUCTION CHANGE DOCUMENTS (CCD'S) SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION REGULATION IR A-6.
13. ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA.
14. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
15. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
16. CONSTRUCTION CHANGE DOCUMENT MUST BE SIGNED BY THE FOLLOWINGS:
    - 16.1. ARCHITECT OR ENGINEER OF RECORD.
    - 16.2. STRUCTURAL ENGINEER (WHEN APPLICABLE)
    - 16.3. DELEGATED PROFESSIONAL ENGINEER.
    - 16.4. DSA
17. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
18. PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS."

GOVERNING CODES

2016 CBC; PARTIAL LIST OF APPLICABLE CODES as of Jan. 1,2017

CCR Title-8, Ch.4, Sub-Ch. 6 - Elevator Safety Orders
2016 Title-19 C.C.R., Public Safety, State Fire Marshal Regulations
2016 Title-24 C.C.R., California Building Standards Administrative Code, Part 1, CBSC
2016 Title-24 C.C.R., California Building Code Volume 1 & 2 (CBC), Part 2, CBSC (2015 IBC, as amended by CA)
2016 Title-24 C.C.R., California Electric Code (CEC), Part 3, CBSC (2014 as amended by CA)
2016 Title-24 C.C.R., California Mechanical Code (CMC), Part 4, CBSC (2015 IAPMO UMC, as amended by CA)
2016 Title-24 C.C.R., California Plumbing Code (CPC), Part 5, CBSC (2015 IAPMO UPC, as amended by CA)
2016 Title-24 C.C.R., California Energy Code (CEC), Part 6, CBSC
2016 California Historical Building Code, Part 8, CBSC
2016 Title-24 C.C.R. California Fire Code (CFC), Part 9, (2015 IFC, as amended by CA), CBSC
2016 California Existing Building Code, Part 10, CBSC
2016 Title-24 C.C.R. California Green Building Standards Code (CALGreen), Part 11
2016 Title-24 C.C.R. California Referenced Standards, Part 12, CBSC

Notes:

1. Compliance with CFC Chapter 14, Fire Safety during Construction and Demolition and CBC Chapter 33, Safety During Construction will be enforced.
2. Some codes may not apply if work regulated by such code is not within the scope of this project.

GENERAL NOTES

1. EXISTING CONSTRUCTION DATA SHOWN ON THE DRAWINGS WAS OBTAINED FROM AVAILABLE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ALL EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.
2. SEE ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS AND ELEVATIONS EXCEPT WHERE INDICATED OTHERWISE.
3. ALL DISCREPANCIES BETWEEN DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
4. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN OR DETAILED ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.
5. DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE JOB SITE BY EACH CONTRACTOR. ERRORS, OMMISIONS OR DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE WORK BEGINS OR SUPPLIES ARE ORDERED.
6. VERIFY ELECTRICAL, MECHANICAL, FIRE ALARM, TELEPHONE AND SECURITY REQUIREMENTS BEFORE CONSTRUCTION BEGINS.
7. WORK SHALL BE PERFORMED IN CONFORMANCE WITH LOCAL, COUNTY, STATE AND FEDERAL CODES, LAWS, AND REGULATIONS APPLICABLE TO THIS WORK.
8. SEPARATE APPLICATION MAY BE REQUIRED FOR ALL N.I.C. ITEMS NOT PART OF DSA APPROVAL.
9. PURSUANT TO CCR TITLE 19, SUBCHAPTER 1, ARTICLE 3.05-ACCESS ROADS AND ARTICLE 3.16-GATE ENTRANCES TO SCHOOL GROUNDS: IT IS NECESSARY TO PROVIDE FIRE & LIFE SAFETY AT DSA WITH WRITTEN CERTIFICATION FROM THE LOCAL FIRE AUTHORITY THAT THE ABOVE SECTIONS ARE BEING MET TO THEIR SATISFACTION. IT IS NECESSARY TO PROVIDE THIS INFORMATION PRIOR TO RECEIVING APPROVAL BY FIRE & LIFE SAFETY. IF FURTHER INFORMATION IS DESIRED, PLEASE CONTACT FIRE & LIFE SAFETY AT (510) 622-3101.
10. ANY ITEM IDENTIFIED TO BE DEMOLISHED, REMOVED OR RELOCATED IS TO BE COMPLETELY REMOVED, INCLUDING BUT NOT LIMITED TO ANY CONCEALED ITEMS (PIPES, CURBS, FRAMING, BEAMS, FASTENERS, ETC.). ALL ITEMS WITHIN A DEMOLISHED AREA THAT MUST BE REROUTED IN ORDER TO MAINTAIN CONTINUITY SHALL BE DONE SO IN ACCORDANCE WITH APPROPRIATE SPECIFICATION SECTIONS IN THE PROJECT MANUAL AT NO ADDITIONAL COST. IF NO SPECIFICATION CAN BE FOUND WITHIN THE PROJECT MANUAL, THEN CONTINUITY SHALL BE MAINTAINED BY CURRENT STANDARD METHODS FOR CONSTRUCTION BUT NOT LESSER IN QUALITY THEN EXISTING. ANY AREA OF DEMOLITION OR REMOVAL SHALL BE LEFT IN A COMPLETELY FINISHED CONDITION AS OUTLINED IN THE PROJECT MANUAL.
11. ALL CASE WORK TO BE ATTACHED TO WALLS AND FLOORS AS INDICATED ON DRAWINGS. IF NO SPECIFIC DETAIL IS REFERENCED, USE THE DETAILS REFERENCED FOR SIMILAR CONDITIONS ON OTHER CASEWORK.
12. FOOD HANDLING FACILITIES SHALL COMPLY WITH LOCAL/ COUNTY HEALTH DEPARTMENT REQUIREMENTS.
13. ALL ITEMS LISTED AS N.I.C. ARE NOT PART OF THIS DSA APPROVAL.

PROJECT DIRECTORY

ARCHITECT	ARTIK ART & ARCHITECTURE 394-A UMBARGER ROAD SAN JOSE, CA 95111 (408)224-9890 (408)224-9891 (FAX)
CLIENT	SANTA CLARA COUNTY OFFICE OF EDUCATION 1290 RIDDER PARK DR. MC254 SAN JOSE, CA 95131 (408) 2453-4310
ELECTRICAL & FIRE ALARM	ALLIANCE ENGINEERING CONSULTANTS SANTA CLARA, CA 95054 (408) 970-9888 (408) 970-9316 (FAX)
MECHANICAL & PLUMBING	H&M MECHANICAL GROUP 8517 EARHART RD. STE. 230 OAKLAND, CA 94621 (510) 569-2000 (510) 569-2002 (FAX)
STRUCTURAL	PEOPLES ASSOCIATES 1996 TAROB CT. MILPITAS, CA 95035 (408) 957-9220

Statement of General Conformance

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

(Application No. 01-116879 File No. 43-65)

The drawings listed on the cover or index sheet have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344 or Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

I find that: Structural
☒ All drawings or sheets listed on this page
☒ are in general conformance with the project design, and,
☒ have been coordinated with the project plans and specifications.

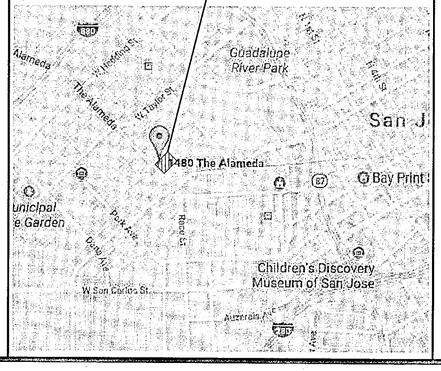
Signature _____ Date 10/5/17

Architect or Engineer designated to be in general responsible charge

Martin Hochroth
Print Name

C-22312 — License Number
03-31-19 — Expiration Date

VICINITY MAP



SCOPE OF WORK

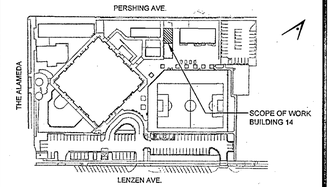
DSA submittal includes, but is not limited to, the modernization of (E) Classroom Building:

- Converting one (E) Classroom to Staff Restroom
- Converting one (E) Classroom to Life Skills Lab.

SHEET INDEX

Legend

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB
1480 THE ALAMEDA
SAN JOSE, CA 95126
SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

TITLE SHEET

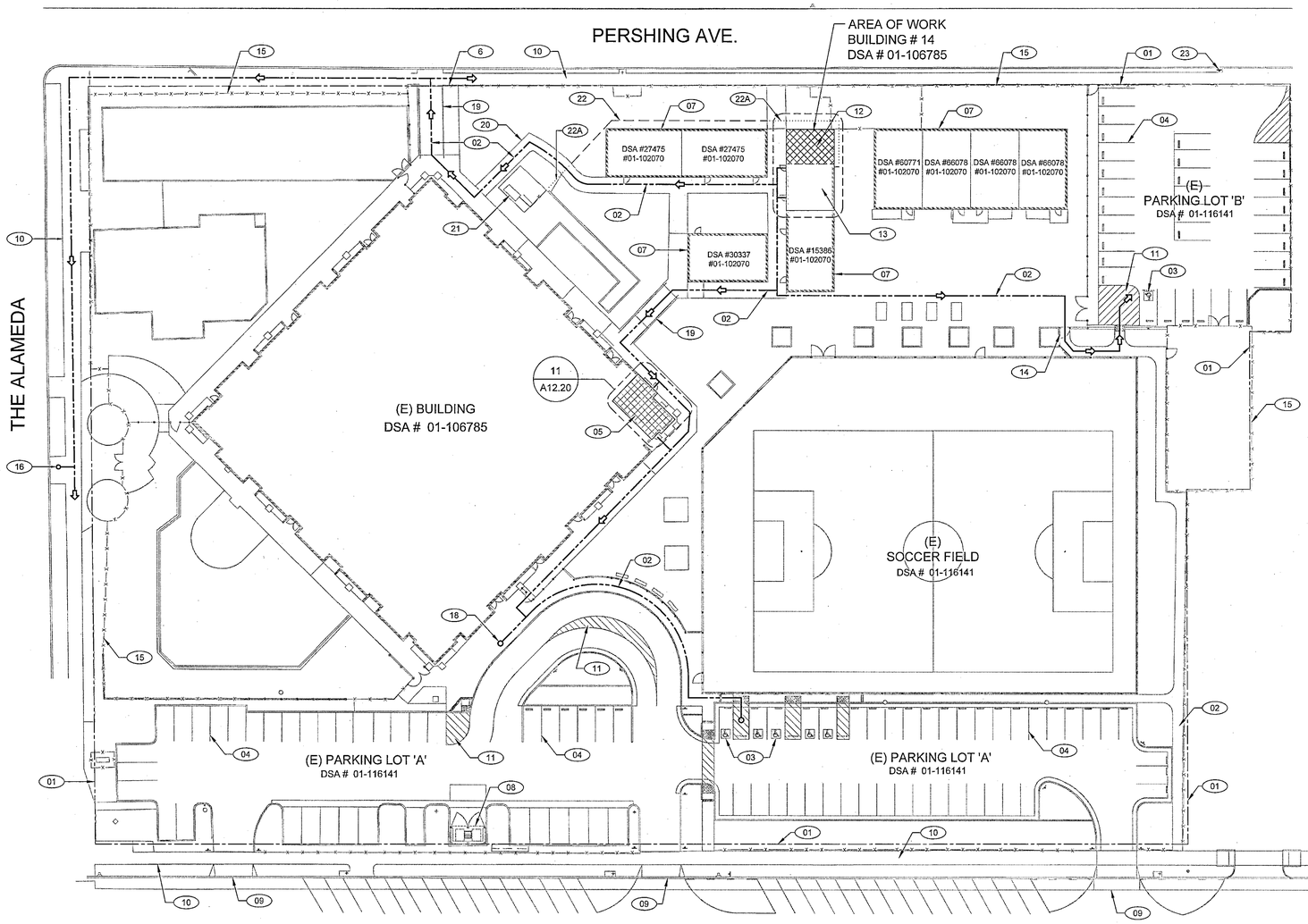
Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
APPROVED FOR ISSUE
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. POLLARD
No. C-20919
REN. 8-30-19
STATE OF CALIFORNIA

File Number	43-65
Application Number	01-116879
Project No.	06317
Date	07/20/17
Drawing No	A0.01



GENERAL NOTES

1. TYPICAL, EXISTING TO REMAIN U.O.N.; PROTECT ALL WORK TO BE REINSTALLED. ANY DAMAGE SHALL BE REPAIRED/ REPLACED TO OWNER'S SATISFACTION.
2. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DWGS. FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ACTUAL FIELD CONDITIONS PRIOR COMMENCEMENT OF WORK.
4. CONTRACTOR TO FIELD VERIFY EXTENT OF ALL DEMOLITION REQUIRED TO ACCOMMODATE CONSTRUCTION.
5. CONTRACTOR TO PROTECT ALL (E) SITE FEATURES FROM DAMAGE INCLUDING BUT NOT LIMITED TO, STRUCTURES, UTILITIES, TREES, LANDSCAPING, AND SITE WORK.
6. SAFE OFF ALL (E) EQUIPMENT AND DEVICES IN (E) BUILDING. DISCONNECT AND REMOVE ALL (E) CONDUITS AND WIRING OF (E) POWER AND LOW VOLTAGES SYSTEMS (FIRE ALARMS, SECURITY, TEL/DATA, CLOCK/PA) BACK TO THE SOURCE. ABANDONAND CAP UNDERGROUNDCONDUITS IN PLACE.
7. ALL WALKING SURFACES ALONG ACCESSIBLE ROUTE SHALL HAVE MAX. RUNNING SLOPE OF 1:20 (5%) & CROSS SLOPE OF 1:48 (2%) PER 11B-403.3.

PARKING ANALYSIS

(E) PARKING LOT 'A"

TOTAL PARKING SPACES: 75
ACCESSIBLE SPACES REQD.= 3
ACCESSIBLE SPACES PROVIDED = 5
3 (E) ACC. , 2 (E) VAN ACC.

(E) PARKING LOT 'B'

TOTAL PARKING SPACES: 30
1 VAN ACCESSIBLE SPACE

KEYNOTES

01 (E) PROPERTY LINE
02 LINE INDICATES ACCESSIBLE ROUTE OF TRAVEL
03 (E) VAN STALL ACCESSIBLE PARKING PER DSA # 01-116141
04 (E) REGULAR PARKING STALLS
05 (E) ACCESSIBLE BOYS AND GIRLS RESTROOMS PER DSA# 01-105785
06 (E) SLIDING GATE
07 (E) PORTABLE BUILDINGS
08 (E) TRASH ENCLOSURE
09 (E) DRIVEWAY RAMPS
10 (E) CONCRETE PUBLIC SIDEWALK
11 (E) NO PARKING AREA
12 MEN & WOMEN STAFF RESTROOMS
13 LIFE-LAB ROOM
14 (E) ACCESSIBLE GATE PER DSA # 01-116141
15 (E) FENCE
16 (E) PUBLIC BUS STOP
17 (E) STREET ANGLED PARKING STALLS
18 (E) DROP OFF AREA – 6NS
19 (E) RAMP, SLOPE IN DIRECTION OF TRAVEL IS LESS THAN 8.33%
20 (E) SLOPED WALKWAY, SLOPE IS LESS THAN 4.9%
21 (E) ELECTRICAL MSB
22 ELECTRICAL POWER LINE SEE E0.3, (TRENCH, BACKFILL COMPACT AND PATCH TO MATCH EXISTING)
22A SAWCUT (E) CONCRETE CURB, (E) ASPHALT OR (E) CONCRETE WALKWAY TRENCH, BACKFILL COMPACT AND PATCH TO MATCH EXISTING, SEE E0.3
23 TOW AWAY SIGN SEE, 15/A12.10

PATH OF TRAVEL NOTE

ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTENT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE ROUTE OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE ROUTE OF TRAVEL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILTY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT (A) HAVE BEEN IDENTIFIED, AND (B) 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 NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PARTR OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

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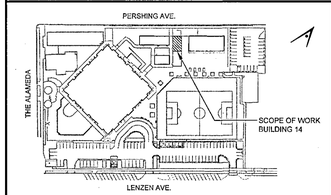
Legend

- (E) ACCESSIBLE RESTROOMS.
- ACCESSIBLE STAFF RESTROOMS.
- ACCESSIBLE ROUTE OF TRAVEL
- PROPERTY LINE
- (E) FENCING TO REMAIN

Key Plan



Project Title

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SAN JOSE, CA 95126

SANTA CLARA COUNTY
OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

ACCESS PLAN

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC SM FLS CT SS KF
DATE OCT 05 2017

Architect Seal

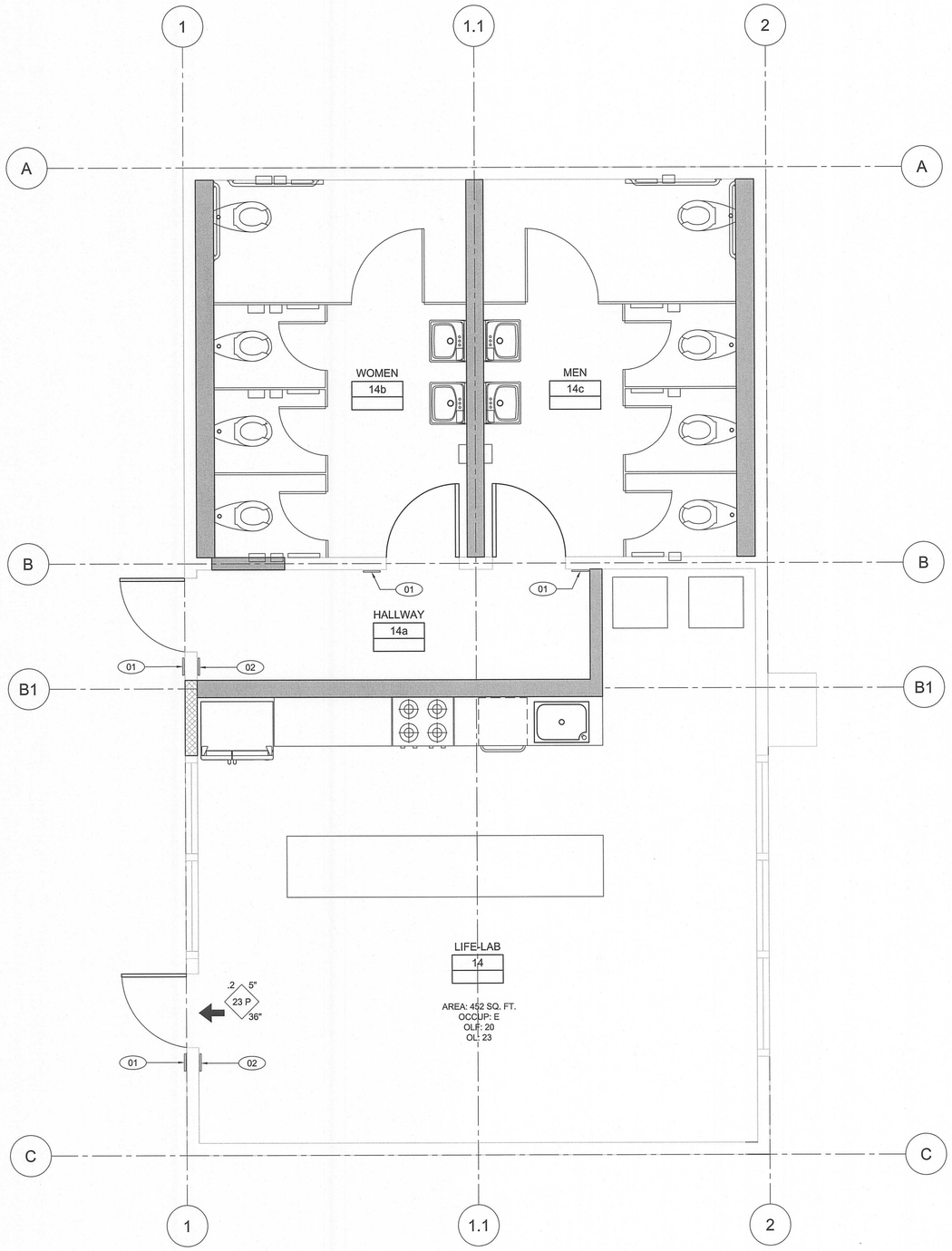
LICENSED ARCHITECT
WILLIAM E. SOUZA
No. C-33919
REN. 9-30-19
STATE OF CALIFORNIA

File Number	Drawing No
43-65	A1.10
Application Number: 01-116879	
Project No.: 06317	
Date: 07/20/17	

01 ACCESS PLAN

0 8 16 32

1'-0" = 1/32"



GENERAL NOTES

1. ALL SIGNAGE MUST BE FIELD INSPECTED PER 2016 CBC 11B-703.1.1.
2. REFER TO 4 / A12.60 FOR BLOCKING DETAIL AT SIGNAGE

PROJECT DATA

BUILDING (LIFE-LAB-RESTROOMS)

CONSTRUCTION TYPE:	V-B, NON SPRINKLERED
OCCUPANCY:	E-1
ALLOWABLE HEIGHT:	1 STORY
ALLOWABLE AREA (S.F.)	9,100 S.F.
ACTUAL AREA:	960 S.F.
ACTUAL HEIGHT :	VARIES, 13'-0' MAX.

KEYNOTES

(01) TACTILE ROOM IDENTIFICATION SIGNAGE PER DETAIL 11/A12.10.
(02) TACTILE EXIT SIGNAGE PER DETAIL 9/A12.10

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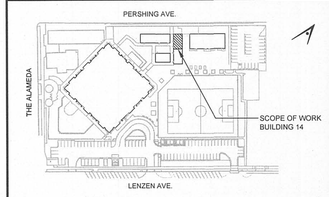
Legend

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB

1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY
OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

CODE PLAN

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC VH FLS SS KF
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN: 8-30-19
STATE OF CALIFORNIA

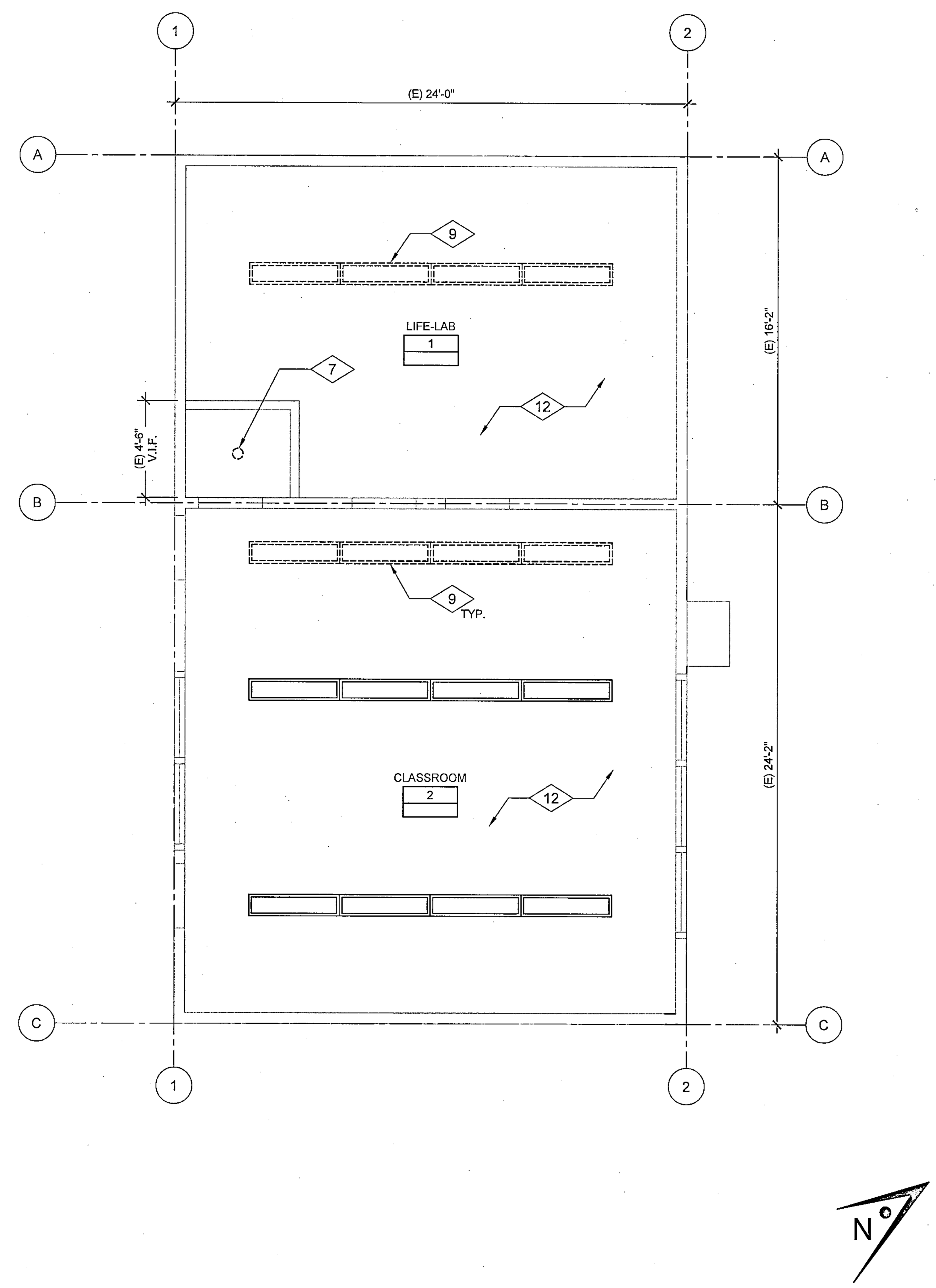
File Number	43-65
Application Number	01-116879
Project No.	06317
Date	07/20/17

Drawing No

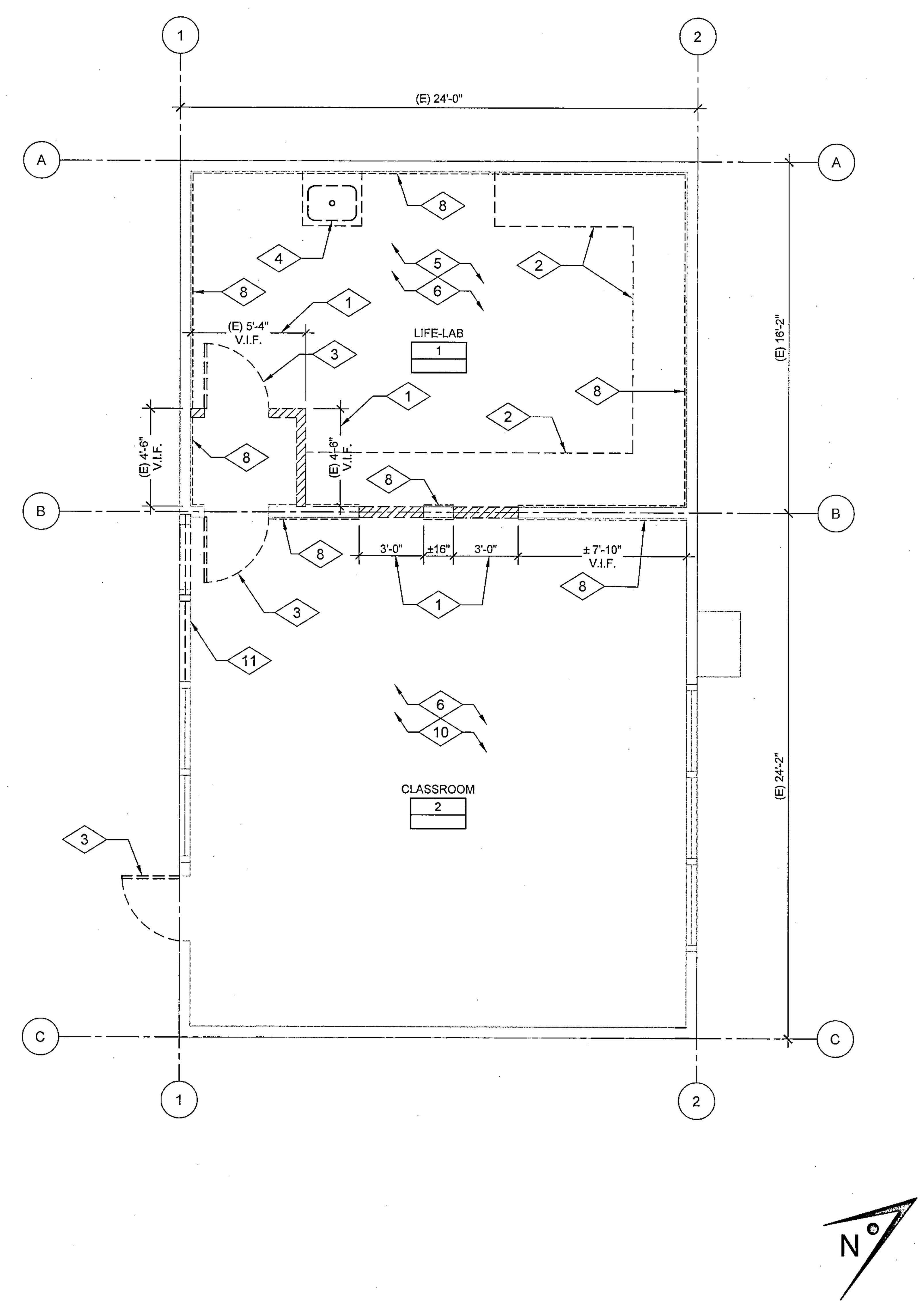
A1.11

01 CODE PLAN - BUILDING A

3/8"=1'-0"



02 DEMOLITION REFLECTED CEILING PLAN 1/4"=1'-0"



01 DEMOLITION LIFE-LAB FLOOR PLAN 1/4"=1'-0"

GENERAL NOTES

1. DEMOLITION PLAN IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION EVEN IF NOT SPECIFICALLY INDICATED ON THE DEMOLITION DRAWINGS.
2. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
3. REFER TO PLUMBING, MECHANICAL, STRUCTURAL & ELECTRICAL, FOR SPECIFIC DEMOLITION SCOPE.
4. ALL MATERIAL INDICATED TO BE REMOVED IS TO BE DISPOSED OFF IN A LEGAL MANNER. CONTRACTOR TO CONFIRM WITH OWNER FOR EQUIPMENT TO BE SALVAGED OR STORED
5. CONTRACTOR SHALL PROTECT PORTIONS OF EXISTING CONSTRUCTION NOT INDICATED TO BE DEMOLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT AND REPAIR OF ITEMS TO REMAIN.
6. PARTIAL DEMOLITION TO INCLUDE TRIMMING AND CAPPING SYSTEMS THAT ARE TO REMAIN OPERABLE.
7. REMOVE (E) WALL FINISHES AS REQUIRED FOR NEW WORK. PATCH/REPAIR WALL SURFACESTO MATCH ADJACENT FINISH DUE TO MECHANICAL, PLUMBING AND ELECTRICAL WORK, REFER TO DEOMOLITIONFLOOR PLAN, FINISH PLAN AND INTERIOR ELEVATION FOR ADDITIONAL INFORMATION.
8. DISCONNECT (E) PLUMBING FIXTURES TO BE REMOVED AND CAP (E) CONNECTIONS. WHERE (E) CONNECTIONS ARE TO BE ABANDONED , CAP SHOULD NOT BE VISIBLE ON OR ABOVE FINISHED SURFACE.
9. CONTRACTOR SHALL COORDINATE EXTENT OF DEMOLITION FOR INSTALLATION OF BLOCKING AS NECESSARY FOR ALL DISCIPLINES, AS WELL AS RELOCATION OF ANY EXISTING POWER AND DATA OUTLETS.
10. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL RECESSED/ WALL MOUNTED ITEMS AND CONCEALED (IN-WALL) UTILITIES.

DEMOLITION KEYNOTES

1. DEMOLISH (E) INTERIOR WALL
2. DEMOLISH (E) CASEWORK IN ITS ENTIRETY
3. DEMOLISH (E) DOOR, HARDWARE, AND FRAME.
4. DEMOLISH (E) PLUMBING FIXTURE AND ACCESSORIES, REFER TO 1/P2.2
5. DEMOLISH (E) VINYL FLOOR FINISH & PREPARE (E) FLOOR FOR NEW FINISH
6. DEMOLISH (E) WALLBASE
7. DEMOLISH (E) INTERIOR RECESSED CAN LIGHT FIXTURE
8. DEMOLISH (E) WALL FINISH TO F.O.S.
9. DEMOLISH EXISTING 1' X 4' LIGHT FIXTURE
10. DEMOLISH (E) CARPET FLOOR FINISH & PREPARE (E) FLOOR FOR NEW FINISH
11. DEMOLISH (E) WINDOWS
12. (E) CEILING TO REMAIN

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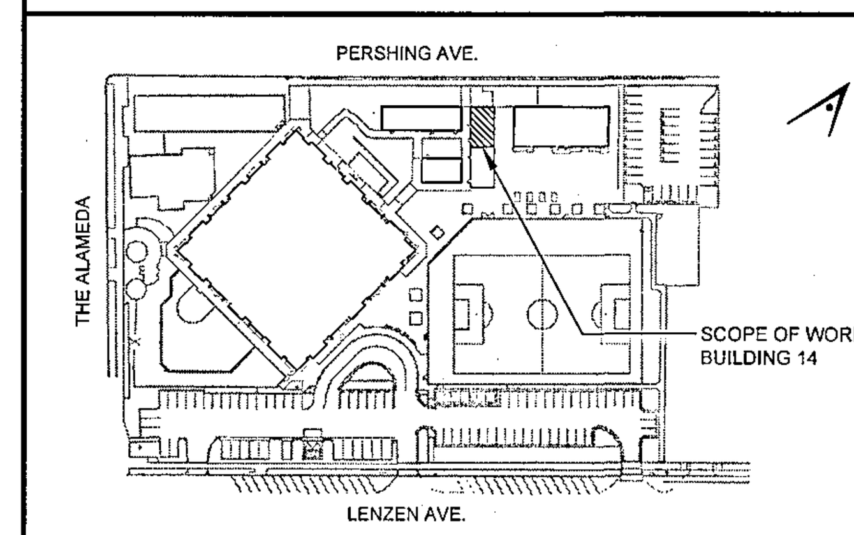
Legend

- (E) 2 X WALL STUD WALL TO REMAIN
- (E) WALL TO BE DEMOLISHED
- (E) DOOR TO BE DEMOLISHED
- ITEMS TO BE DEMOLISHED

Key Plan



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Drawing Title

DEMOLITION PLANS

Regulatory Agency Approval

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AC [signature] FLS [signature] SS KF
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Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
NO. C-20919
REN. 9-30-19
STATE OF CALIFORNIA

File Number 43-65

Application Number 01-116879

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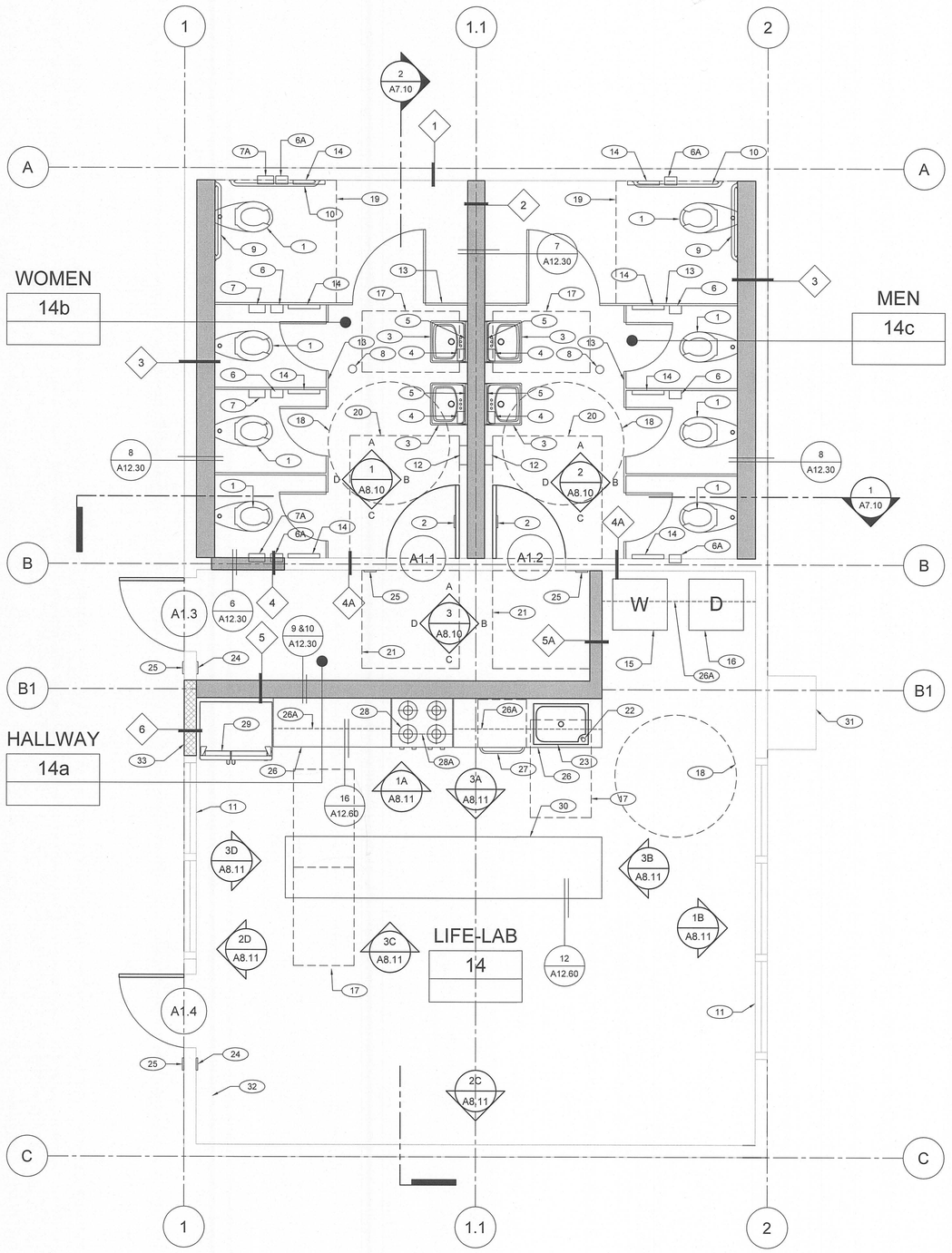
Drawing No A2.10



GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
2. CONTRACTOR TO REVIEW AS BUILT DRAWINGS FOR REFERENCE.
3. REFER TO 3/A7.10 FOR INTERIOR ELEVATIONS TYP.
4. REFER TO INTERIOR ELEVATIONS, REFLECTED CEILING PLAN, FINISH FLOOR PLAN, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
5. REFER TO DOOR SCHEDULE ON SHEET A10.10 AND SPECIFICATIONS FOR DOOR HARDWARE AND WINDOW SCHEDULE FOR ADDITIONAL NOTES AND INFORMATION.
6. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL RECESSED/ WALL MOUNTED ITEMS AND CONCEALED (IN-WALL) UTILITIES.
7. ALL SIGNAGE MUST BE FIELD INSPECTED PER 2016 CBC 11B-703.1.1
8. FLOORING TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOORS.
9. PAINT ALL NEW AND EXISTING INTERIOR SURFACES INCLUDING, BUT NOT LIMITED TO, WALLS DOORS AND TRIMS.
10. PROVIDE SOUND ATTENUATION BATT INSULATION IN CORRIDOR WALLL
11. NO EXPOSED CONDUITS ARE ALLOWED, ALL CONDUITS MUST BE INSIDE STUD WALLS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

KEYNOTES

1. ACCESSIBLE WALL MOUNT WATER CLOSET SEE PLUMBING DWGS.
2. RESTROOM DOOR SIGN, SEE DETAIL 3/A12.10
3. ACCESSIBLE LAVATORY SEE DETAIL 2/A12.10, REFER TO PLUMBING DWGS.
4. SOAP DISPENSER SEE 9/A12.10
5. 18"x36" MIRROR MOUNTED ABOVE LAVATORY MOUNT BOTTOM OF REFLECTIVE SURFACE 40" MAX. A.F.F.
6. SURFACE MOUNT TOILET PAPER DISPENSER.
6A. SEMI-RECESSED TOILET PAPER DISPENSER.
7. SURFACE MOUNT SANITARY DISPOSAL
7A. SEMI-RECESSED SANITARY DISPOSAL
8. EXISTING FLOOR DRAIN. SEE PLUMBING DWGS.
9. 36" GRAB BAR, MAINTAIN 1-1/2" CLEAR BELOW GRAB BAR, SEE 8/A12.10
10. 42" GRAB BAR, MAINTAIN 1-1/2" CLEAR BELOW GRAB BAR. SEE 8/A12.10
11. (E) WOOD FRAMED WINDOWS
12. ELECTRIC HAND DRYER
13. OVERHEAD BRACED TOILET COMPARTMENTS SEE DETAIL 1/A12.20
14. SEAT COVER DISPENSER
15. WASHER MACHINE, SEE 3/A10.10
16. DRYER MACHINE, SEE 3/A10.10
17. 30" X 48" CLEAR SPACE
18. 5'-0" CLEAR SPACE
19. 60" X 60" CLEAR SPACE
20. 60" X 54" CLEAR SPACE
21. 48" X 48" CLEAR SPACE
22. ACCESSIBLE PUSH BUTTON BUBBLER
23. DROPPED IN SINK, PROVIDE PAPER TOWEL & SOAP DISPENSERS SEE 16/A12.10
24. TACTILE EXIT SIGN SEE DETAIL 12 / A12.10
25. TACTILE ROOM SIGN SEE DETAIL 11 / A12.10
26. CASEWORK CABINETRY SEE SHEET 6/A12.60
26A. CASEWORK UPPER CABINETS SEE SHEET 6/A12.60
27. UNDER COUNTER LOW PROFILE (ADA) DISH WASHER, SEE 3/A10.10
28. ELECTRIC RANGE WITH OVEN, SEE 3/A10.10
28A. CEILING MOUNTED HOOD WITH EXHAUST FAN, SEE 3/A10.10
29. DOUBLE DOOR REFRIGERATOR SEE PLUMBING PLAN FOR WATER SUPPLY AND DRAIN. SEE 3/A10.10
30. ACCESSIBLE CASEWORK-CABINETRY ISLAND SEE 12/A12.60 & INTERIOR ELEVATIONS 3/A8.11
31. (E) EXTERIOR WALL MOUNTED HVAC UNIT TO REMAIN REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
32. SURFACE MOUNTED FIRE EXTINGUISHER, 2A:10B:C, WITH VALID CERTIFICATION TAG ATTACHED. SEE DETAIL 9/A12.10
33. INFILL WINDOW ABOVE SEE DETAIL 9 / A12.50

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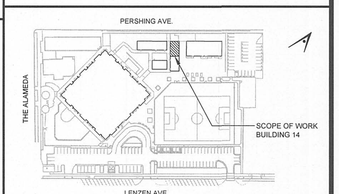
Legend

- (E) WALLS TO REMAIN
- 2X WALL
- WINDOW INFILL
- 101.1 — DOOR TYPE, REFER TO SHEET A10.10
- A — WALL TYPE, REFER TO SHEET A12.30

Key Plan



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Drawing Title

ENLARGED FLOOR PLAN

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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01-116879
AC FLS SS
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23819
REN. 8-30-19
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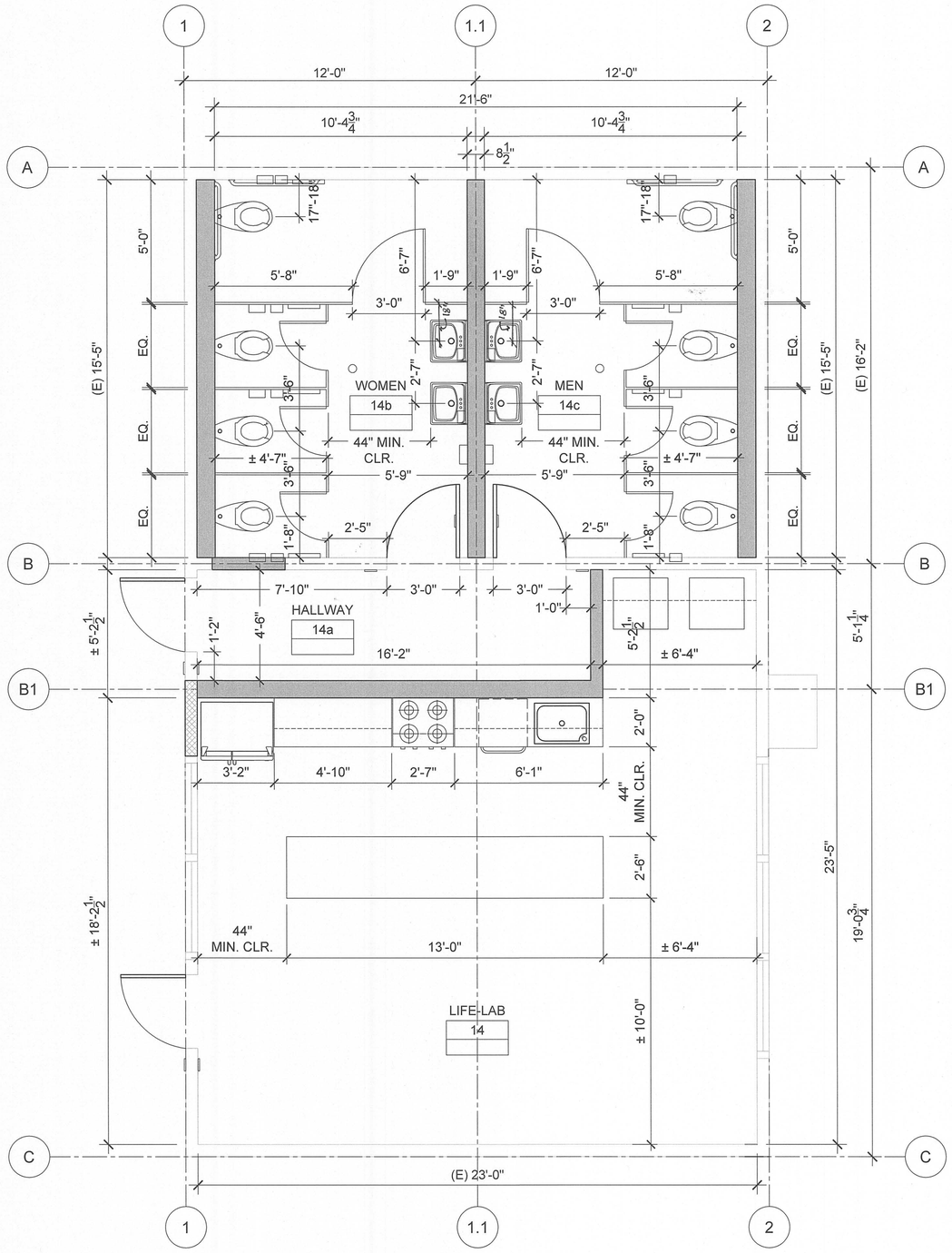
A3.10

01 ENLARGED LIFE-LAB & RESTROOMS FLOOR PLAN — 3/8"=1'-0"



01 DIMENSION LIFE-LAB/RESTROOMS PLAN 3/8"=1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
2. CONTRACTOR TO REVIEW AS BUILT DRAWINGS FOR REFERENCE.
3. REFER TO 3/A7.10 FOR INTERIOR ELEVATIONS TYP.
4. REFER TO INTERIOR ELEVATIONS, REFLECTED CEILING PLAN, FINISH FLOOR PLAN, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
5. REFER TO DOOR SCHEDULE ON SHEET A10.10 AND SPECIFICATIONS FOR DOOR HARDWARE AND WINDOW SCHEDULE FOR ADDITIONAL NOTES AND INFORMATION.
6. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL RECESSED/ WALL MOUNTED ITEMS AND CONCEALED (IN-WALL) UTILITIES.
7. ALL SIGNAGE MUST BE FIELD INSPECTED PER 2016 CBC 11B-703.1.1
8. FLOORING TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOORS.
9. PAINT ALL NEW AND EXISTING INTERIOR RESTROOMS SURFACES INCLUDING, BUT NOT LIMITED TO, WALLS DOORS AND TRIMS.
10. PROVIDE ACCESS DOORS IN HARDLID AREAS AND WHERE NEEDED PER CBC CODE AND SPECIFICATIONS. GC SHALL COORDINATE WITH MECHANICAL & PLUMBING DRAWINGS. EXACT LOCATION TO BE COORDINATED WITH ARCHITECT.
11. PROVIDE SOUND ATTENUATION BATT INSULATION IN (E) CEILING AND WALLS
12. NO EXPOSED CONDUITS ARE ALLOWED, ALL CONDUITS MUST BE INSIDE STUD WALLS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

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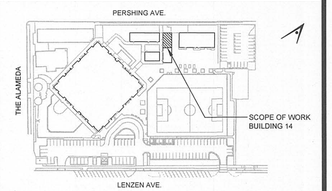
Legend

(E) WALLS TO REMAIN
2X WALL

Key Plan



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Drawing Title

DIMENSION PLAN

Regulatory Agency Approval

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Architect Seal

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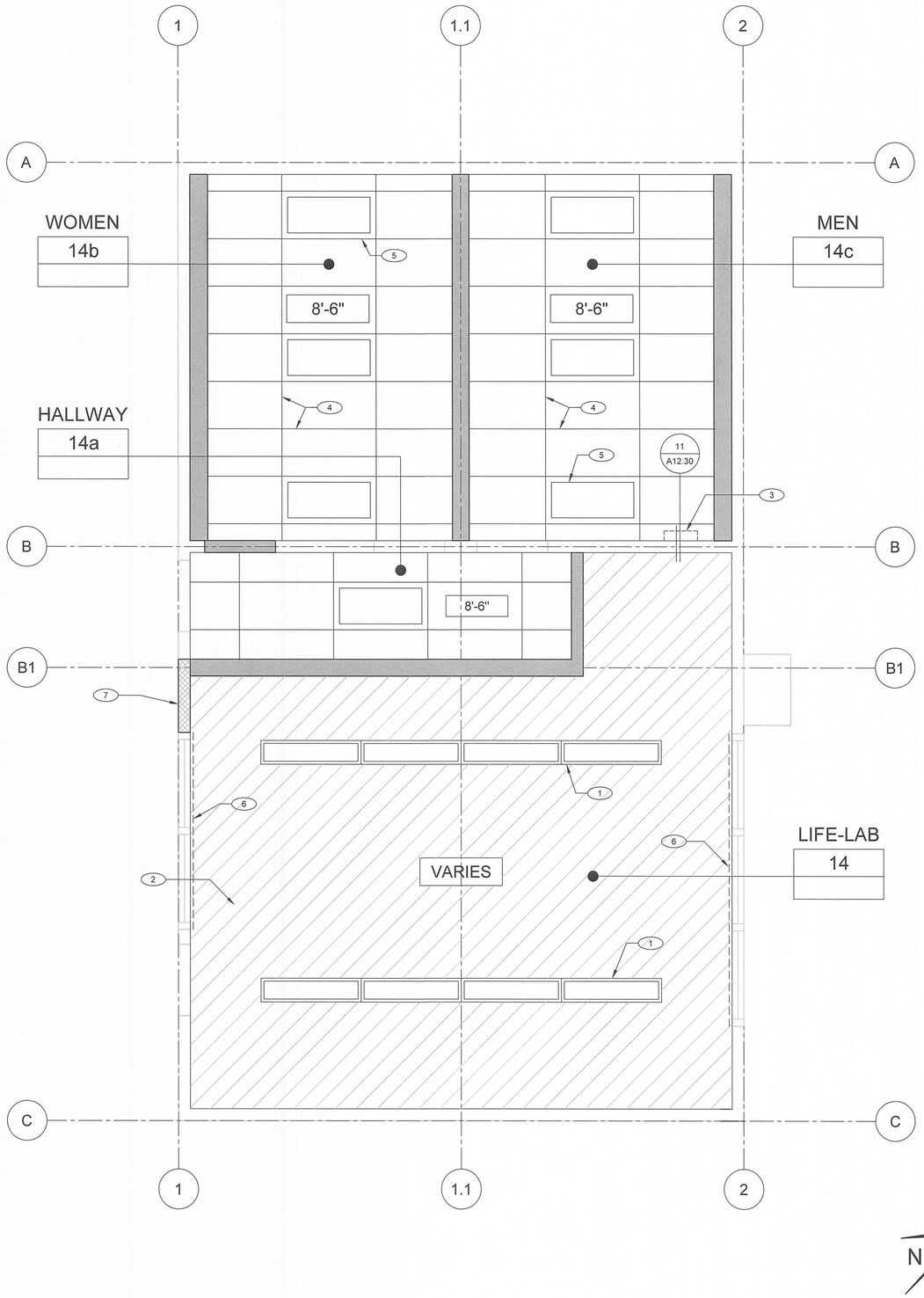
Drawing No A3.11



01 LIFE-LAB/RESTROOMS REFLECTED CEILING PLAN

3/8"=1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
2. REFER TO SHEET A12.30 FOR PARTITION TYPES.
3. REFER TO INTERIOR ELEVATIONS AND FINISH FLOOR PLAN FOR ADDITIONAL NOTES AND INFORMATION.
4. REFER TO DOOR SCHEDULE ON SHEET A10.10 AND SPECIFICATIONS FOR DOOR HARDWARE AND WINDOW SCHEDULE FOR ADDITIONAL NOTES AND INFORMATION.
5. REFER TO REFLECTED CEILING PLAN, ELEVATIONS, SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
6. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL RECESSED/ WALL MOUNTED ITEMS AND CONCEALED (IN-WALL) UTILITIES.
7. ALL SIGNAGE MUST BE FIELD INSPECTED PER 2016 CBC 11B-703.1.1
8. PROTECT ALL EXISTING ITEMS/ FINISHES TO REMAIN.
9. PATCH AND REPAIR ANY DAMAGED FINISHES TO MATCH SURROUNDING FINISH.
10. PATCH AND REFINISH PORTIONS OF WALLS REMOVED/REVEALED DUE TO DEMOLITION, REFER TO DEMOLITION FLOOR PLAN, FINISH PLANS, AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
11. ALL MATERIAL INDICATED TO BE REMOVED IS TO BE DISPOSED OF IN A LEGAL MANNER. CONTRACTOR TO CONFIRM WITH DISTRICT ITEMS TO BE SALVAGED OR STORED.
12. FLOORING TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOORS.
13. PROVIDE INSULATION IN (E) WALL WHERE OPENED FOR (N) WORK.
14. PAINT ALL NEW INTERIOR RESTROOMS SURFACES INCLUDING, BUT NOT LIMITED TO, WALLS DOORS AND TRIMS.

KEYNOTES

1. (E) 1' X 4' CLNG. MOUNTED FIXTURE TO REMAIN SEE ELECTRICAL DWGS.
2. (E) GLUED CEILING TILE TO REMAIN
3. INDICATES PROJECTION OF WATER HEATER ABOVE T-BAR
4. T-BAR CEILING SYSTEM SEE A12.40 & A12.41
5. 24" X 48" FLUORESCENT LIGHT FIXTURE, SEE ELECTRICAL DWGS.
6. HORIZONTAL LOUVER BLINDS
7. INFILL (E) WINDOW REFER TO DETAIL 9/A12.50

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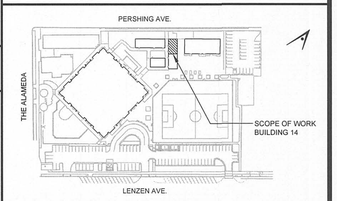
Legend

- (E) GLUED CEILING TILE TO REMAIN
- 0'-0" CEILING HEIGHT
- 4'-0" X 2'-0" T-BAR CEILING SYSTEM

Key Plan



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No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
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Drawing Title

REFLECTED CEILING PLAN

Regulatory Agency Approval

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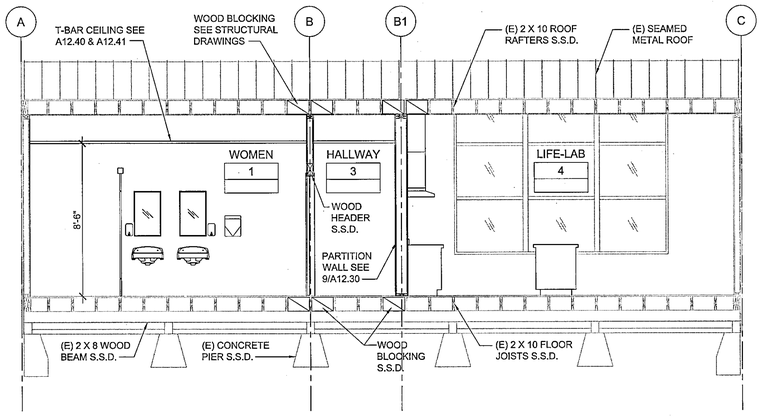
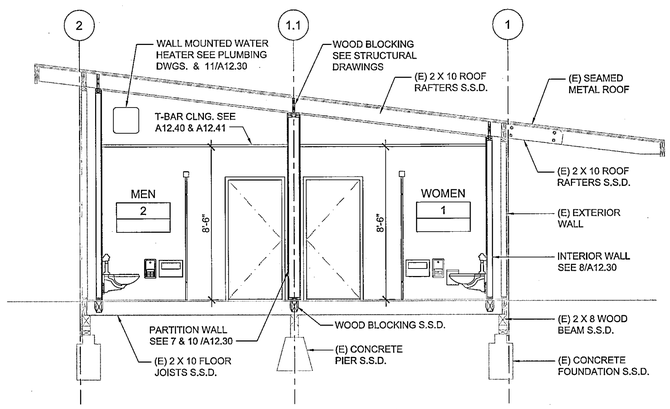


02 CROSS SECTION 2 — 1/4"=1'-0"



01 CROSS SECTION 1 — 1/4"=1'-0"

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK IN REFERENCE TO DRAWINGS AND SPECIFICATIONS FROM ALL DISCIPLINES, MECHANICAL, PLUMBING & ELECTRICAL AND STRUCTURAL
2. REFER TO FLOOR PLAN, REFLECTED CEILING PLAN AND ELEVATIONS FOR ADDITIONAL INFORMATION
3. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ROOFTOP UNITS AND OTHER EQUIPMENTS AND MOUNTING.
4. PAINT ALL EXPOSED MECHANICAL DUCTS AND IT'S SUPPORTS
5. REFER TO STRUCTURAL DRAWINGS FOR WALL ATTACHMENT DETAILS.
6. REFER TO SHEET A12.40 AND A12.41 FOR SUSPENDED CEILING DETAILS

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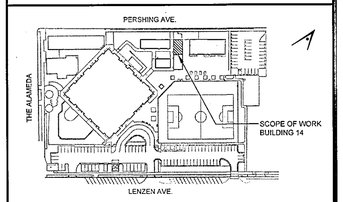
Legend

Key Plan



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CROSS SECTIONS

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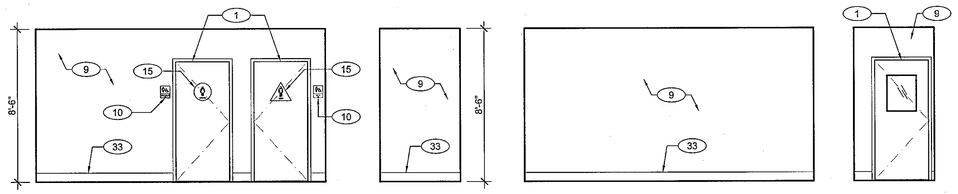
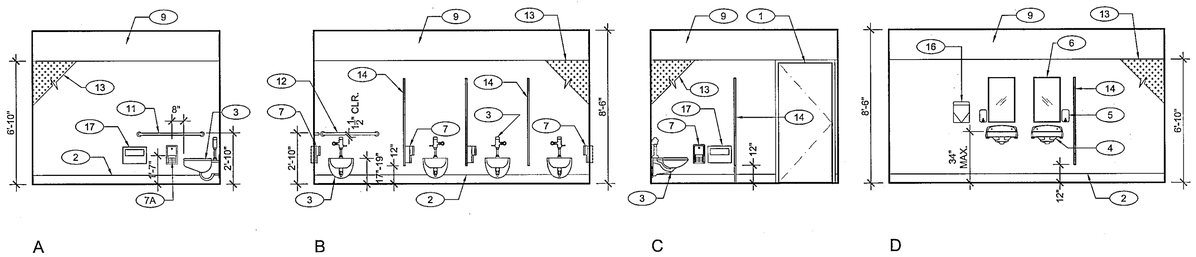


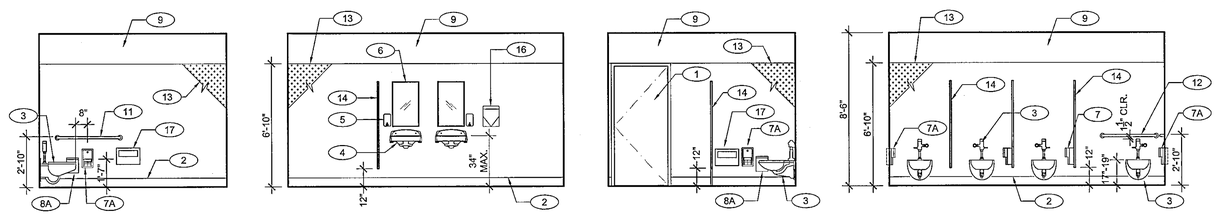
A B C D

04 HALLWAY INTERIOR ELEVATIONS — 1/4"=1'-0"



A B C D

02 MEN RESTROOMS INTERIOR ELEVATIONS — 1/4"=1'-0"



A B C D

01 WOMEN RESTROOM INTERIOR ELEVATIONS — 1/4"=1'-0"

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK IN REFERENCE TO DRAWINGS AND SPECIFICATIONS FROM ALL DISCIPLINES, MECHANICAL, PLUMBING & ELECTRICAL..
2. REFER TO SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
3. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL RECESSED/ WALL MOUNTED ITEMS AND CONCEALED (IN-WALL) UTILITIES.
4. PROTECT ALL EXISTING ITEMS/ FINISHES TO REMAIN.
5. CLEAN ALL EXISTING SURFACES, FINISHES PRIOR TO OCCUPATION.
6. PATCH AND REPAIR ANY DAMAGED FINISHES TO MATCH SURROUNDING FINISH.
7. REFER TO DETAIL 9 / A12.10 FOR ACCESSIBLE MOUNTING HEIGHTS OF EQUIPMENT.
8. LOCATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, SHOWN ON INTERIOR ELEVATIONS ARE FOR ARCHITECTURAL COORDINATION ONLY. NOT ALL ITEMS MAY BE SHOWN.
9. CONTINUE FINISHES BEHIND ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO ACCESSORIES, WIREMOLD AND THERMOSTATS.
10. REFER TO SHEET A12.50 FOR DOOR DETAILS.
11. PAINT ALL NEW AND EXISTING EXTERIOR BUILDING SURFACES INCLUDING, BUT NOT LIMITED TO, WALLS, DOORS AND TRIMS
12. REFER TO FLOOR PLAN & REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.

KEYNOTES

1. DOOR, REFER TO 1 & 2/A10.10 FOR DOOR TYPE.
2. EPOXY COVED WALL BASE, SEE 7/A12.30
3. ACCESSIBLE WALL MOUNT WATER CLOSET, SEE PLUMBING DWGS.
4. ACCESSIBLE LAVATORY SEE DETAIL 2/A12.10 FOR ACCESSIBILITY REQUIREMENTS. SEE PLUMBING DWGS.
5. SOAP DISPENSER, SEE 9/A12.10
6. 18" X 36" MIRROR MOUNTED ABOVE LAVATORY. MOUNT BOTTOM OF REFLECTIVE SURFACE 40" MAX. A.F.F. SEE 9/A12.10
7. SURFACE MOUNT TOILET PAPER DISPENSER.
7A. SEMI-RECESSED TOILET PAPER DISPENSER.
8. WALL MOUNTED SANITARY DISPOSAL
8A. SEMI-RECESSED SANITARY DISPOSAL
9. PAINT FINISH WALL
10. RESTROOM BRAILLE ACCESS SIGNAGE SEE 3 / A12.10
11. 42" GRAB BAR, MAINTAIN 1-1/2" CLEAR BELOW GRAB BAR, SEE 8/A12.10
12. 36" GRAB BAR, MAINTAIN 1-1/2" CLEAR BELOW GRAB BAR, SEE 8/A12.10
13. FRP WALL PANEL FULL HEIGHT,SEE DETAIL 3 & 4 A/12.20
14. OVERHEAD BRACED TOILET COMPARTMENT PARTITION, SEE 1/A12.20
15. RESTROOM GENDER SIGNAGE SEE 3 / A12.10
16. ELECTRIC HAND DRYER, SEE 9/A12.10
17. SEAT COVER PAPER DISPENSER
18. DOUBLE DOOR REFRIGERATOR, SEE 3/A10.10
19. CASEWORK CABINETRY SEE 6/A12.60
20. ELECTRIC RANGE W/ OVEN SEE 3/A10.10 & ELECTRICAL DRAWINGS
21. EXHAUST HOOD-FAN, SEE 3/A10.10 & MECHANICAL DRAWINGS
22. UPPER CASEWORK CABINETRY SEE 9 & 10/A12.60
23. CASEWORK DUCT- ENCLOSURE, VERIFY DIMENSIONS IN FIELD
24. DROPPED IN STAINLESS STEEL SINK
25. ACCESSIBLE PUSH BUTTON BUBBLER
26. UNDER COUNTER LOW PROFILE (ADA) DISH WASHER, SEE 3/A10.10
27. SURFACE MOUNTED PAPER TOWELL DISPENSER
28. WASHER MACHINE, SEE 3/A10.10
29. ELECTRIC DRYER MACHINE, SEE 9/A12.10
30. ELECTRIC WATER HEATER, SEE PLUMBING DRAWINGS
31. SURFACE MOUNTED FIRE EXTINGUISHER, 2A:10B:C, WITH VALID CERTIFICATION TAG ATTACHED. SEE DETAIL 9/A12.10
32. CASEWORK FILLER VERIFY DIMENSIONS IN FIELD
33. RUBBER WALL BASEBOARD
34. (E) WOOD FRAMED WINDOW
35. CASEWORK ISLAND SEE 6 & 12/A12.60
36. HORIZONTAL LOUVER BLINDS

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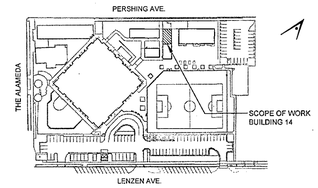
Consultant Seal

Legend

GYPSUM BOARD, PAINT

FRP WALLBOARD

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB
1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY
OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

RESTROOMS INTERIOR ELEVATIONS

Regulatory Agency Approval

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC FLS SS
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GUEST
No. C-25919
REN. 8-30-19
STATE OF CALIFORNIA

File Number 43-65

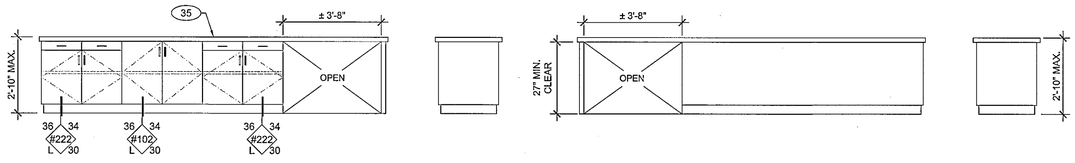
Application Number 01-116879

Project No. 06317

Date 07/20/17

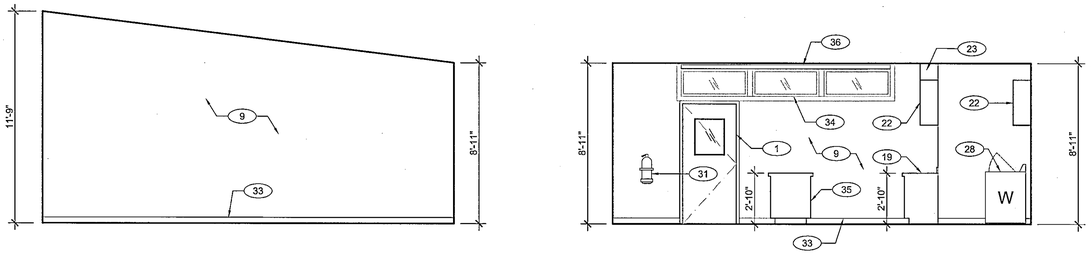
Drawing No

A8.10



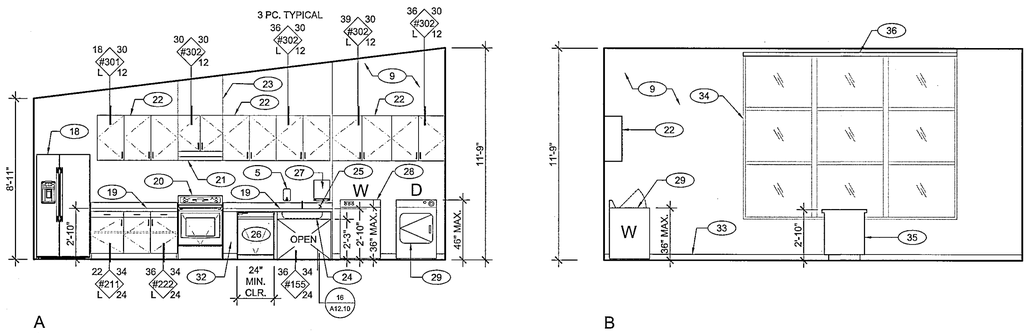
03 ISLAND CABINET ELEVATIONS

3/8"=1'-0"



02 LIFE-LAB INTERIOR ELEVATIONS

1/4"=1'-0"



01 LIFE-LAB INTERIOR ELEVATIONS

1/4"=1'-0"

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK IN REFERENCE TO DRAWINGS AND SPECIFICATIONS FROM ALL DISCIPLINES, MECHANICAL, PLUMBING & ELECTRICAL..
2. REFER TO SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
3. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL RECESSED/ WALL MOUNTED ITEMS AND CONCEALED (IN-WALL) UTILITIES.
4. PROTECT ALL EXISTING ITEMS/ FINISHES TO REMAIN.
5. CLEAN ALL EXISTING SURFACES, FINISHES PRIOR TO OCCUPATION.
6. PATCH AND REPAIR ANY DAMAGED FINISHES TO MATCH SURROUNDING FINISH.
7. REFER TO DETAIL 1 SHEET A12.20 FOR ACCESSIBLE MOUNTING HEIGHTS OF EQUIPMENT.
8. LOCATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, SHOWN ON INTERIOR ELEVATIONS ARE FOR ARCHITECTURAL COORDINATION ONLY. NOT ALL ITEMS MAY BE SHOWN.
9. CONTINUE FINISHES BEHIND ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO ACCESSORIES, WIREMOLD AND THERMOSTATS.
10. REFER TO SHEET A12.50 FOR DOOR DETAILS.
11. PAINT ALL NEW AND EXISTING EXTERIOR BUILDING SURFACES INCLUDING, BUT NOT LIMITED TO, WALLS, DOORS AND TRIMS
12. REFER TO FLOOR PLAN & REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
13. RECEPTACLES MOUNTED OVER THE COUNTER TO MEET CBC 11B - 308.2.2 OR 308.3.26. (+46" TO TOP AT SIDE OBSTRUCTED REACH, +44" TO TOP AT FRONT OBSTRUCTED REACH)

KEYNOTES

1. DOOR, REFER TO 1 & 2/A10.10 FOR DOOR TYPE.
2. EPOXY COVED WALL BASE, SEE 7/A12.30
3. ACCESSIBLE WALL MOUNT WATER CLOSET, SEE PLUMBING DWGS.
4. ACCESSIBLE LAVATORY SEE DETAIL 2/A12.10 FOR ACCESSIBILITY REQUIREMENTS. SEE PLUMBING DWGS.
5. SOAP DISPENSER, SEE 9/A12.10
6. 18" X 36" MIRROR MOUNTED ABOVE LAVATORY, MOUNT BOTTOM OF REFLECTIVE SURFACE 40" MAX. A.F.F. SEE 9/A12.10
7. SURFACE MOUNT TOILET PAPER DISPENSER.
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Consultant Seal

Legend

GYPSUM BOARD, PAINT

Key Plan

Project Title

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SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

LIFE-LAB INTERIOR ELEVATIONS

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC FLS SS
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GARTLAN
No. C-23919
REN. 8-30-19
STATE OF CALIFORNIA

File Number
43-65

Application Number
01-116879

Project No.
06317

Date
07/20/17

Drawing No
A8.11

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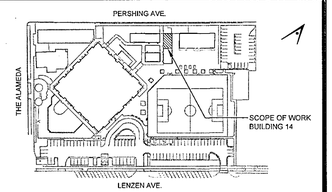
Legend

Key Plan



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Drawing Title

SCHEDULES

Regulatory Agency Approval

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DIV. OF THE STATE ARCHITECT
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01-116879
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DATE OCT 05 2017

Architect Seal

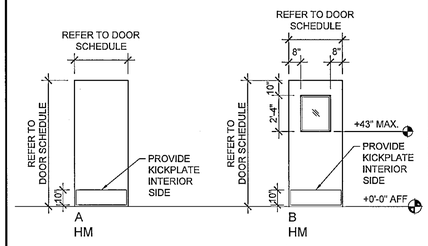
LICENSED ARCHITECT
WILLIAM E. BOLLES JR.
Reg. C-23919
REN. 8-30-18
STATE OF CALIFORNIA

File Number	Drawing No
43-65	A10.10
Application Number: 01-116879	
Project No.: 06317	
Date: 07/20/17	

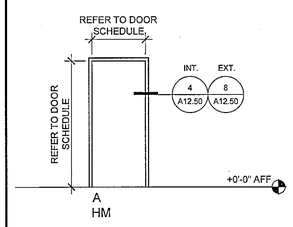
APPLIANCE SCHEDULE

No.	APPLIANCE TYPE	BRAND / MODEL No.	LOCATION	ELECT. INFO.	REMARKS
FR-1	REFRIGERATOR	GE / MOD. CZS22MSKSS	LIFE-LAB	120 V. / 15 Amp.	SEE CUT SHEETS, PLUMBING & ELECT. DWGS.
ER-1	RANGE	LG / LRE4211ST	LIFE-LAB	208 V. / 40 Amp.	SEE CUT SHEETS AND ELECTRICAL DRAWINGS
EX-1	EXHAUST HOOD	BROAN / 40000 SERIES	LIFE-LAB	120 V. / 2 Amp.	SEE CUT SHEETS, MECH. & ELECT. DRAWINGS
DW-1	DISH WASHER	GE / GLDT696JSS	LIFE-LAB	120 V. / 15 Amp.	LOW PROFILE, ADA COMPLIANT, SEE CUT SHEETS, PLUMBING & ELECTRICAL DRAWINGS
CW-1	WASHER	GE / GTW810SSJWS	LIFE-LAB	120 V. / 10 Amp.	SEE CUT SHEETS, PLUMBING & ELECT. DWGS.
CD-1	DRYER	GE / GTD81ESSJWS	LIFE-LAB	208 V. / 23 Amp.	SEE CUT SHEETS, MECH. & ELECT. DRAWINGS

4 APPLIANCE SCHEDULE — N.T.S.



2 DOOR TYPE



3 FRAME TYPE — 1/4" = 1'-0"

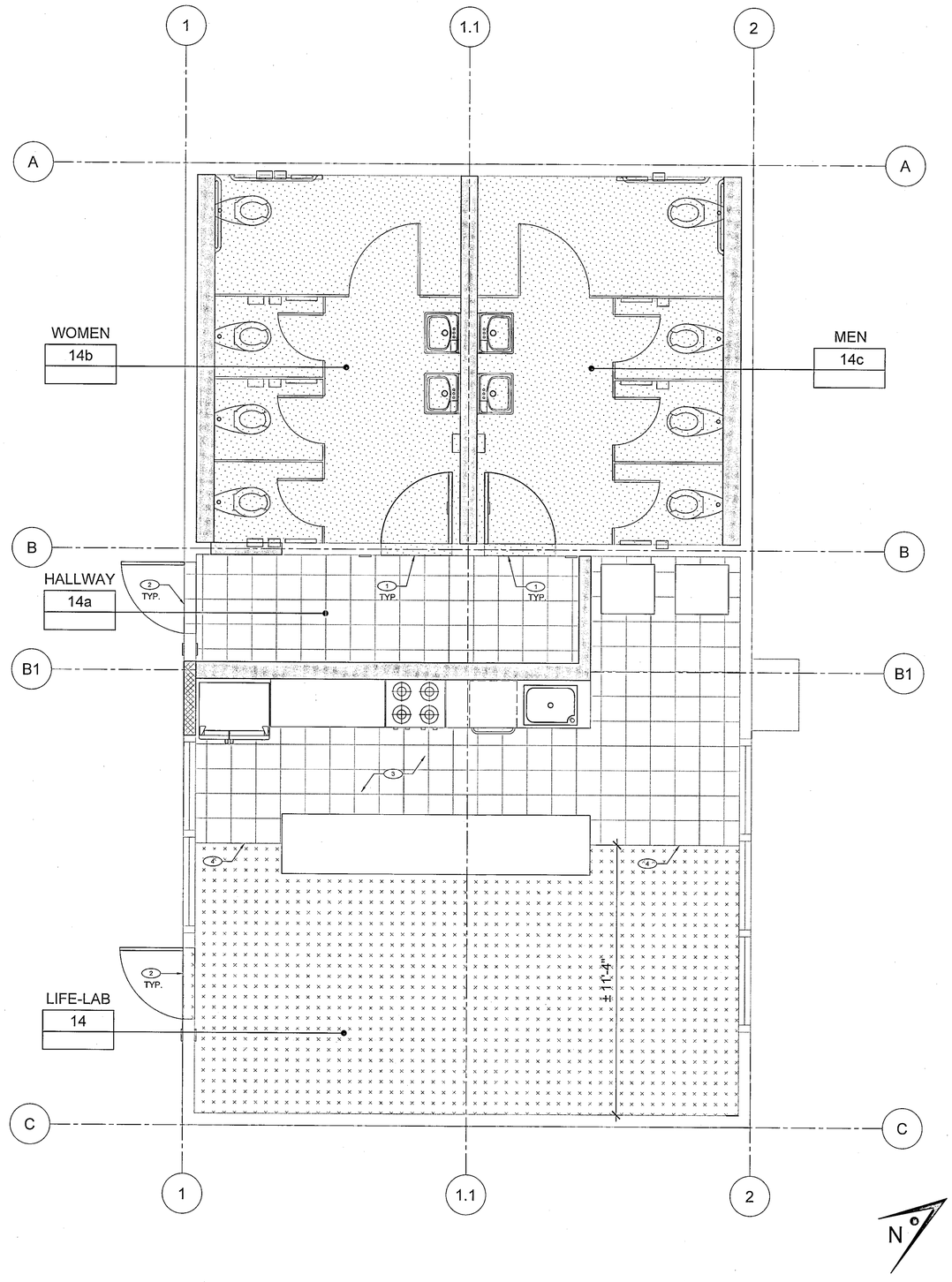
NOTES:

1. U.O.N. ALL STEEL DOORS AND WINDOW FRAME MEMBERS ARE MIN. 2" IN WIDTH.
2. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL BE AS FOLLOWS:
   A. INTERIOR DOORS = 5 LBS.
   B. EXTERIOR DOORS = 5 LBS.
3. ALL DOOR HARDWARE TO BE LEVER TYPE.
4. CONTRACTOR SHALL FIELD VERIFY ALL DOOR SIZES PRIOR TO FABRICATION AND CONSTRUCTION.
5. FOR ROOM SIGNAGE AND RESTROOM SIGNAGE REFER TO SHEET A12.10.
6. ALL EXIT DOORS SHALL BE ABLE TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT OR ABILITY TO GRASP THE OPENING HARDWARE.
7. REFER TO 1-8/A12.50 FOR DOOR JAMB, HEAD & FRAME DETAILS
8. THIS DOOR IS LISTED AT 7'-0" HEIGHT BUT THE CONTRACTOR SHALL PROVIDE A 1/2" UNDERCUT FOR VENTILATION PURPOSES.
9. FOR DOOR CLEARANCES SE DETAILS 6 & 10 /A12.10

DOOR NO.	ROOM NAME	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	FRAME MATERIAL	FRAME TYPE	FINISH	PANIC HARDWARE	HARDWARE GROUP	HEAD DETAIL	JAMB DETAIL	THRESHOLD DETAIL	REMARKS
A1.1	WOMEN RESTROOM	3'-0" X 7'-0"	A	HM	HM	A	P	-	2	2/A12.50	1/A12.50	3/A12.50	SEE NOTE 8
A1.2	MEN RESTROOM	3'-0" X 7'-0"	A	HM	HM	A	P	-	2	2/A12.50	1/A12.50	3/A12.50	SEE NOTE 8
A1.3	HALLWAY	3'-0" X 6'-8"	B	HM	HM	A	P	-	1	6/A12.50	5/A12.50	7/A12.50	-
A1.4	LIFE-LAB	3'-0" X 6'-8"	B	HM	HM	A	P	-	1	6/A12.50	5/A12.50	7/A12.50	-

LEGEND
HM = HOLLOW METAL
WD = WOOD
AL = ALUMINUM
P = PAINT
FF = FACTORY FINISH

1 DOOR SCHEDULE



01 LIFE-LAB AND RESTROOMS - FINISH FLOOR PLAN

1/2"=1'-0"

GENERAL NOTES

1. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING, ETC. REQUIRED FOR INSTALLATION OF ALL RECESSED/ WALL MOUNTED ITEMS AND CONCEALED (IN-WALL) UTILITIES.
2. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL NOTES AND INFORMATION.
3. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
4. LOCATIONS OF MECHANICAL, ELECTRICAL AND SECURITY ITEMS SHOWN ON INTERIOR ELEVATIONS ARE FOR ARCHITECTURAL COORDINATION. NOT ALL ITEMS MAY BE SHOWN. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR THE LOCATIONS OF ADDITIONAL ITEMS.
5. ALL ROOM IDENTIFICATION AND EXIT SIGNAGE MUST BE FIELD INSPECTED PER 2016 CBC 11B.703.1.1.2. SIGN LOCATIONS SHALL COMPLY W/ 2016 CBC 11B-703.4.2.
6. CONCRETE FLOOR TOPPING MAY BE REQUIRED PRIOR TO INSTALLATION OF FLOORING SYSTEMS TO CORRECT EXISTING UNEVEN SLAB CONDITIONS. PROVIDE LINE-ITEM COST FOR THIS SCOPE.
7. FOR FINISH FLOORING TRANSITION SEE DETAIL 7/A12.10

KEYNOTES

1. INTERIOR DOOR THRESHOLD SEE 3/A12.50
2. EXTERIOR DOOR THRESHOLD SEE 7/A12.50
3. VCT TO BE INSTALLED UNDER THE CASEWORK AND APPLIANCES TYP.
4. TRANSITION STRIP REFER TO DETAIL 7/A12.10

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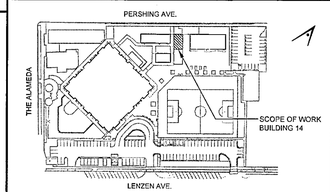
Legend

- EPOXY FLOORING WITH 6" HT. INTEGRAL COVE BASE
- VCT
- CARPET

Key Plan



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Drawing Title

FINISH FLOOR PLAN

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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AC FLS CJ SS KF
DATE OCT 05 2017

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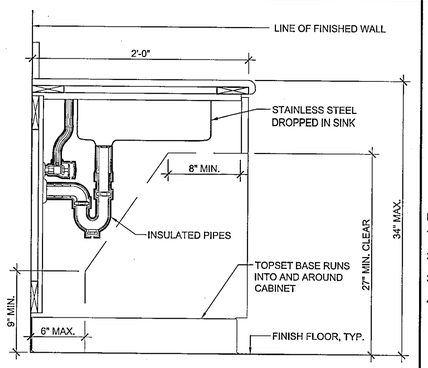
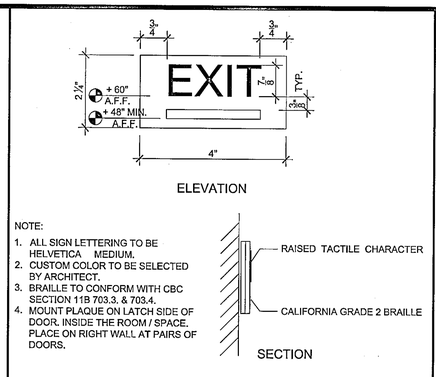
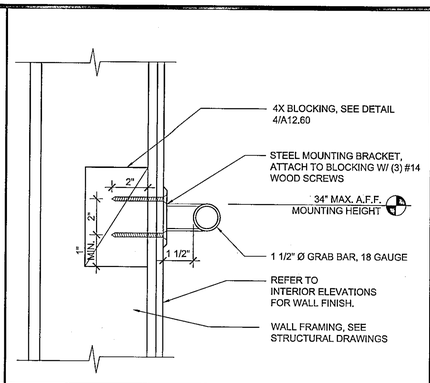


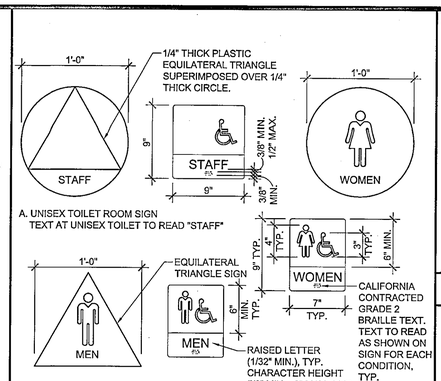
20 | 16 | ACCESSIBLE SINK AT CABINET | 1 1/2" = 1'-0"



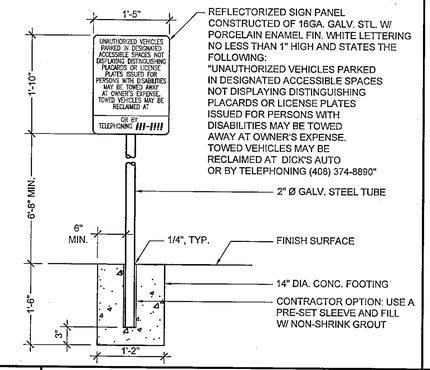
12 | TACTILE EXIT SIGN | 6" = 1'-0"



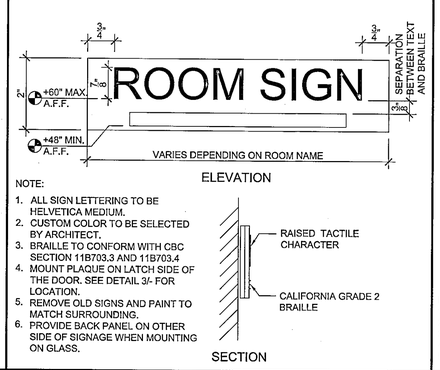
8 | GRAB BAR ANCHORAGE | 3" = 1'-0"



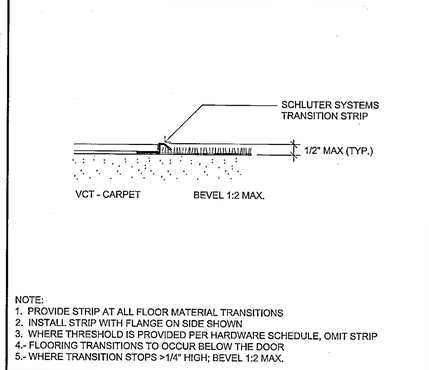
3 | SIGNAGE | N.T.S.



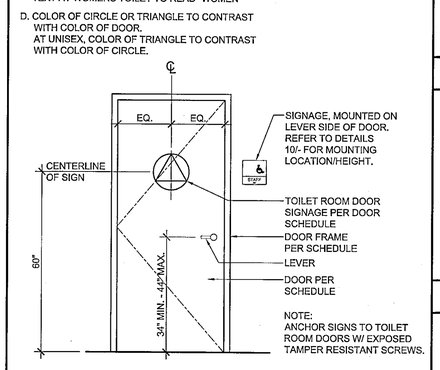
19 | | | 15 | TOW AWAY SIGN | 3/4" = 1'-0"



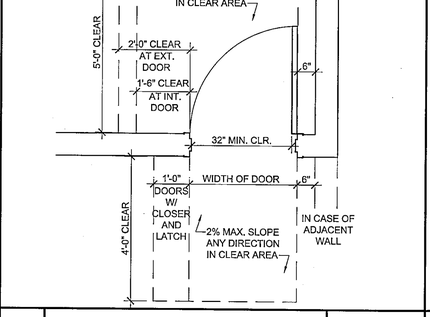
11 | TACTILE ROOM SIGN | 6" = 1'-0"



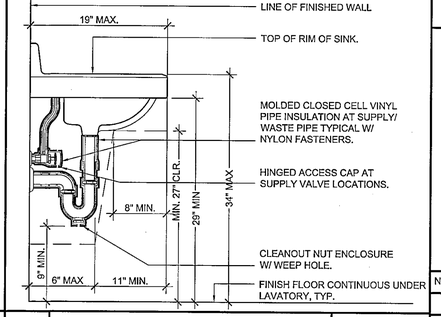
7 | FLOOR TRANSITIONS | N.T.S.



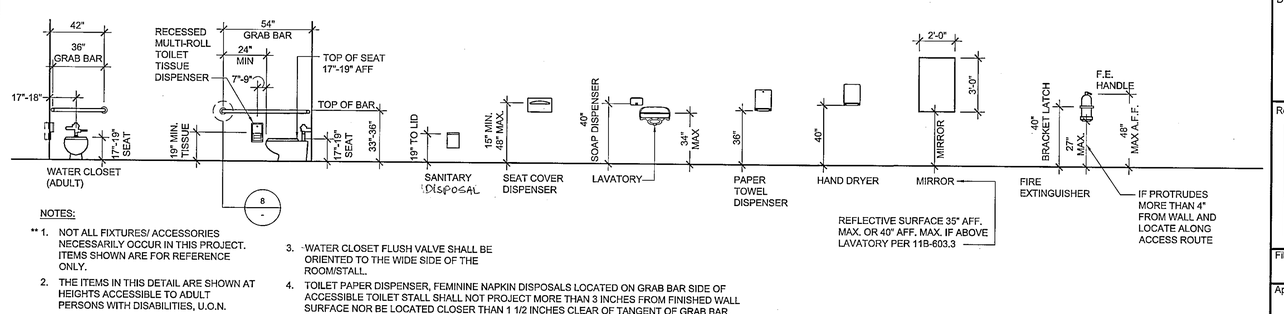
10 | ACCESSIBLE SIGNAGE | 1/2" = 1'-0"



6 | DOOR CLEARANCE | 1/2" = 1'-0"



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



17 | | | 13 | | 9 | ACCESSIBLE MOUNTING HEIGHTS | 1/4" = 1'-0"

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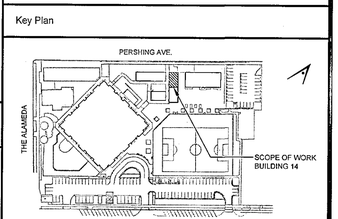

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HESTER SCHOOL
RESTROOMS & LIFE LAB

1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

ACCESSIBILITY DETAILS

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC FLS SS
DATE OCT 05 2017

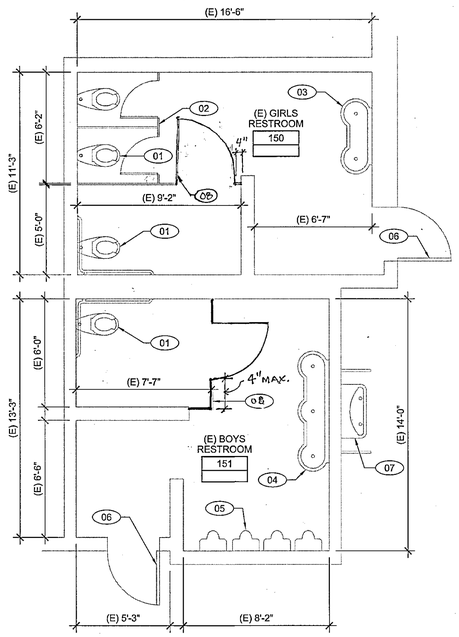
Architect Seal

LICENSED ARCHITECT
WILLIAM E. POTTS
No. C-23919
REN. 8-30-19
STATE OF CALIFORNIA

File Number	43-65
Application Number	01-116879
Project No.	06317
Date	07/20/17

Drawing No

A12.10



01 (E) ACCESSIBLE FLOOR MOUNT WATER CLOSET W/ FLUSHOMETER

02 (E) OVERHEAD BRACED TOILET PARTITION

03 (E) ACCESSIBLE WALL MMOUNTED 2 SINK STATION

04 (E) ACCESSIBLE WALL MMOUNTED 3 SINK STATION

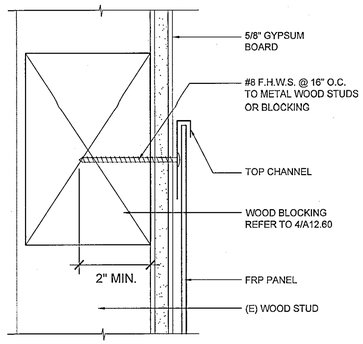
05 (E) ACCESSIBLE WALL MMOUNTED URINAL

06 (E) 36" W. HOLLOW METAL DOOR

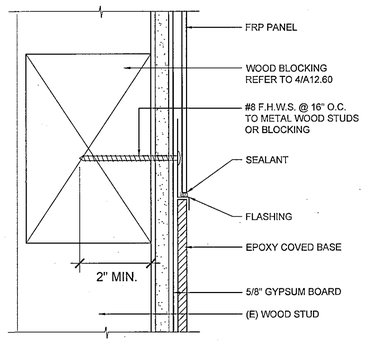
07 (E) ACCESSIBLE WAL MOUNTED DRINKING FOUNTAIN

08 OVERHEAD BRACED TOILET COMPARTMENT REFER TO 1/A12.20

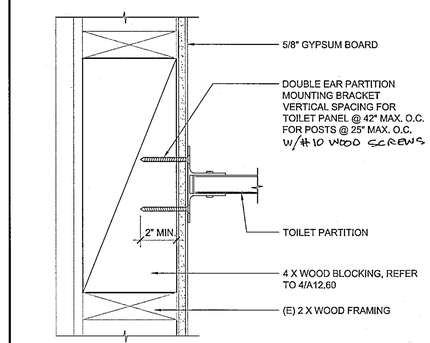
11 (E) ACCESSIBLE GIRLS RESTROOM 150 & BOYS RESTROOM 151 — 1/4" = 1'-0"



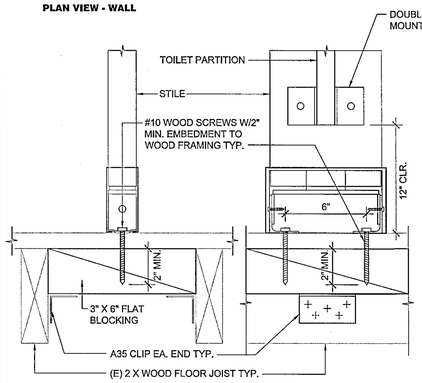
4 FRP TOP FINISH — 6" = 1'-0"



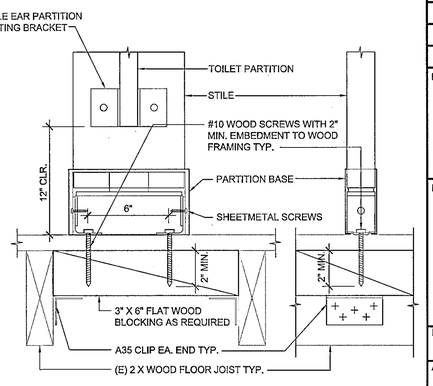
3 FRP BASE FINISH — 6" = 1'-0"



PLAN VIEW - WALL



SECTION - AT FLOOR



SECTION - AT FLOOR

1 TOILET PARTITION ANCHORAGE — 1-1/2" = 1'-0"

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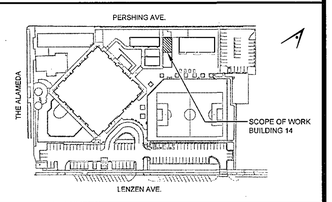
Key Plan



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Architect Seal

LICENSED ARCHITECT
WILLIAM E COURT
No. C-23918
REN 8-30-19
STATE OF CALIFORNIA

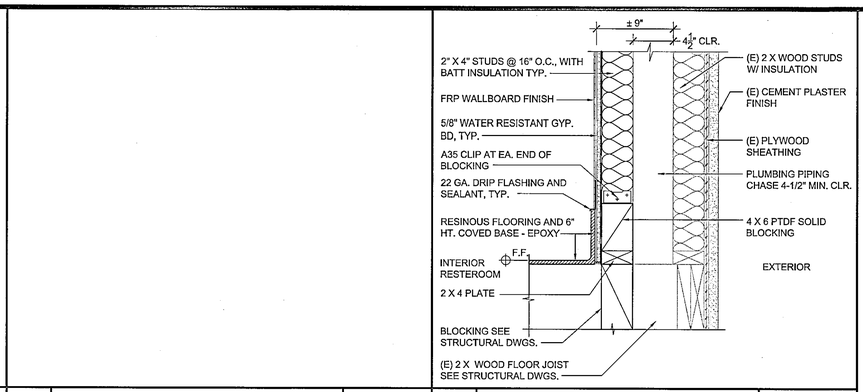
File Number 43-65

Application Number 01-116879

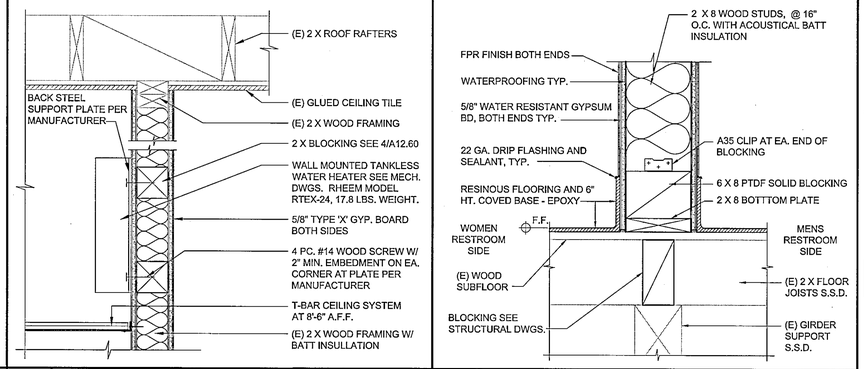
Project No. 06317

Date 07/20/17

Drawing No A12.20



20 | 16 | 12 | 8 | WALL BASE - INTERIOR/EXTERIOR | 1 1/2" = 1'-0"



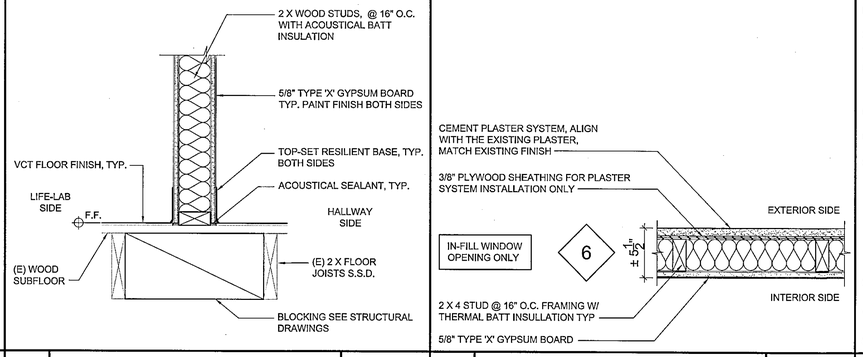
19 | 15 | 11 | THANKLESS W.H. AT (E) WALL | 1 1/2" = 1'-0"

18 | 14 | 10 | WALL AT CEILING / ROOF DETAIL | 1 1/2" = 1'-0"

17 | 13 | 9 | WALL BASE LIFE-LAB / HALLWAY | 1 1/2" = 1'-0"

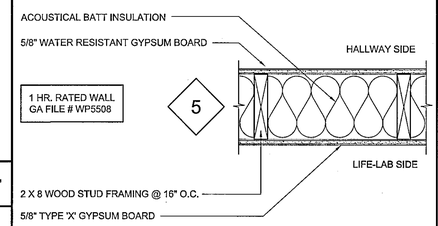
7 | WALL BASE AT RESTROOMS | 1 1/2" = 1'-0"

6 | WALL BASE RESTROOM-HALLWAY | 1 1/2" = 1'-0"

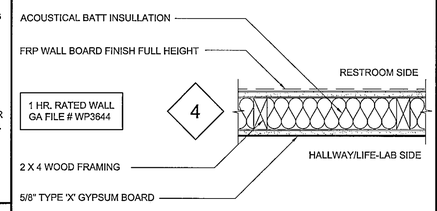


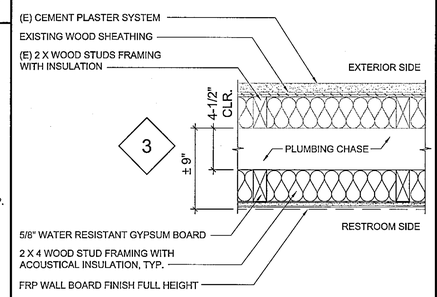
5 | WALL TYPES | 1 1/2" = 1'-0"

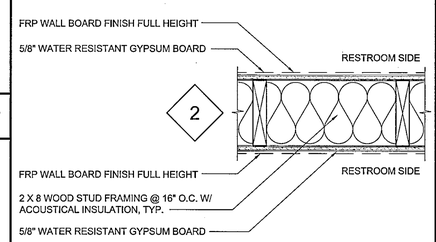
1 HR. RATED WALL GA FILE # WP3644 — 5A — SIMILAR TO WALL TYPE 5, EXCEPT THE STUDS ARE 2 X 4 @ 16" O.C.

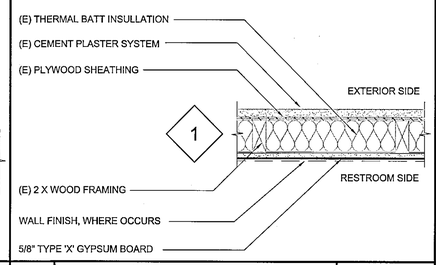


1 HR. RATED WALL GA FILE # WP3644 — 4A — SIMILAR TO WALL TYPE 4, EXCEPT THE STUDS ARE EXISTING 2 X 4 @ 16" O.C.









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

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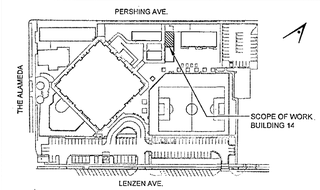

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STATE OF CALIFORNIA

File Number 43-65

Application Number 01-116879

Project No. 06317

Date 07/20/17

Drawing No

A12.30

DSA IR 25-2.13

METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILING: 2013 CBC

Disciplines: Structural

History: Revised 02-10-16; Revised in its entirety 09-21-15; Revised 04-08-14; Revised 05-16-13; Revised 12-21-12; Revised in its entirety 05-18-11; Issued 06-22-09 as IR 25-5

PURPOSE: The purpose of this Interpretation of Regulations (IR) is to provide guidelines for the design and installation of metal suspension systems for lay-in ceilings on projects submitted under the 2013 California Building Code (CBC). For projects submitted to the Division of the State Architect (DSA) for review under the 2007 or 2010 CBC, see IR 25-2.07 or IR 25-2.10, respectively.

1. **GENERAL REQUIREMENTS:** CBC Section 1616A.1.20 (1616.10.16*) requires the design and installation to be in compliance with ASTM C635, C636, and E580, Section 5, with modifications.

   Note: Amendments in CBC Section 1616A.1.20 (16161.10.16*) replace and append ASCE 7, Section 13.5.6.

The requirements in this IR apply to flat and level ceiling systems whose total weight, including ceiling mounted air terminals, services and light fixtures, does not exceed four (4) psf. Heavier systems, systems that are not flat and level, those supporting lateral loads from partitions, and free floating ceilings supported by chains or cables, are beyond the minimum requirements of this IR and will require special design and details.

2. **CEILING DESIGN & INSTALLATION REQUIREMENTS.**

2.1 **Ceiling System Components:**

a) Shall comply with ASTM C635 and Section 5.1 of ASTM E580.

b) The ceiling grid system must be rated heavy duty as defined by ASTM C635.

c) Main runners, cross runners, splices, expansion devices, and intersection connectors shall be designed to carry a mean ultimate test load of not less than 180 lbs. in compression and tension per ASTM E580 Section 5.1.2.

d) Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi. The maximum allowable (ASD) tension load for wire meeting this specification is 350 pounds.
- Four (4) turns of the wire within 1.5" will develop the wire allowable load.
- Three (3) turns of the wire within 3" is assumed to develop no more than 50 percent of wire allowable load.

2.2 **Suspension System Installation:**

a) Shall comply with ASTM C636 and Section 5.2 of ASTM E580.

b) #12 gage hanger wires may be used for up to and including a 4 foot by 4 foot grid spacing and shall be attached to main runners. Splices in hanger wires shall develop 50 percent of the wire allowable load.

c) Provide #12 gage hanger wires at the ends of all main and cross runners within eight (8) inches of the support or within one-fourth (1/4) of the length of the end tee, whichever is least, for the perimeter of the ceiling area. Perimeter wires are not required when the length of the end tee is eight (8) inches or less.

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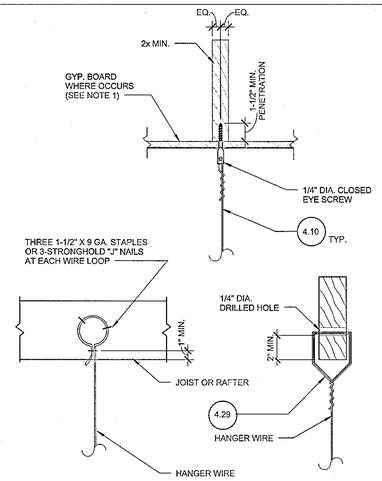

NOTE:

(1) WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

Basis Document : DSA IR 25-2.13 | Sheet No: 4.25

Sheet Title : HANGER WIRE CONNECTION TO SAWN TIMBER | rev. 09-21-15

COMPRESSION STRUT TABLE

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'10"
400S137-43	10'-10"

1/4"

Basis Document : DSA IR 25-2.13 | Sheet No: 3.21

Sheet Title : COMPRESSION STRUT TABLE | rev. 09-21-15; rev. 02-10-16

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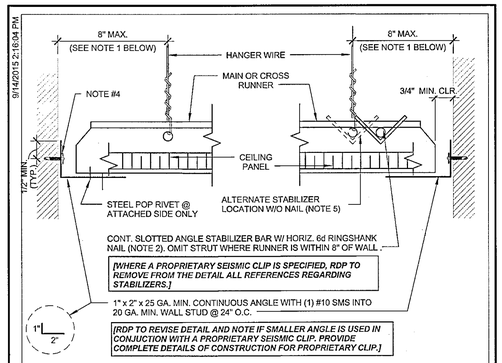
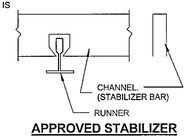


ATTACHED JOINT **FREE JOINT**

NOTES:

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



APPROVED STABILIZER (SEE NOTE 3)

Basis Document : DSA IR 25-2.13 | Sheet No: 2.60

Sheet Title : CEILING PERIMETER | rev. 09-21-15

GENERAL NOTES

1. REFER TO DSA IR 25-2.13: METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILING: 2013 CBC

TABLE 1, LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Accelerationi Parameter, SDS	Brace Assembly Spacing (ft.)	
	$z/h \leq 0.5^{a}$	$z/h \geq 0.5^{a,b}$
$SDS \leq 1.15$	12 x12	12 x12

SDS USED: 1.0 (PER STRUCTURAL DRAWINGS ; PAGE S1.0)

a. WHERE, AS DEFINED IN ASCE 7, SECTION 13.3.1:
z = HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING WITH RESPECT TO THE BASE.

h = AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.
b. IT SHALL BE PERMITTED TO USE THE BRACE ASSEMBLY SPACING FOR "z/h > 0.5" FOR THE FULL BUILDING HEIGHT.

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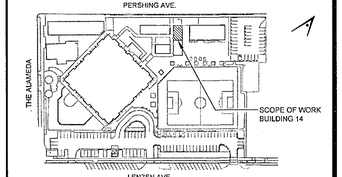
Legend

Key Plan



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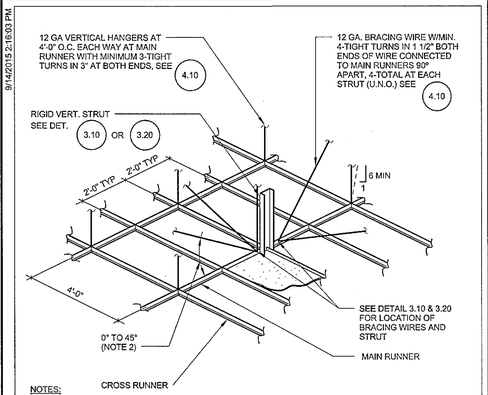

NOTES:

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

Basis Document : DSA IR 25-2.13 | Sheet No: 2.35

Sheet Title : SUSPENDED CEILING - SUSPENSION AND BRACING ASSEMBLY | rev. 09-21-15

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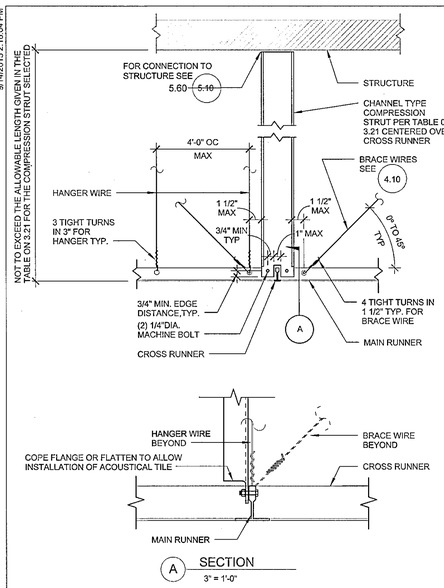

NOT TO EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE ON 3.21 FOR THE COMPRESSION STRUT SELECTED

Basis Document : DSA IR 25-2.13 | Sheet No: 3.10

Sheet Title : SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT | rev. 09-21-15

9/14/2015 2:16:04 PM

STRUCTURAL CONDITION OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
METAL DECK	4.20	4.30
CONCRETE OVER METAL DECK	4.21	4.31
CONCRETE SLAB, BEAM, OR JOIST	4.22	4.32
STRUCTURAL STEEL	4.23	4.33
METAL STUD WALL	4.24	4.34
SAWN TIMBER	4.25, 4.29	4.35
WOOD I JOIST	4.26	4.36, 4.37
WOOD CHORD TRUSS	4.27, 4.29	4.38, 4.29
OPEN WEB STEEL JOIST	4.28, 4.29	4.39, 4.29

Basis Document : DSA IR 25-2.13 | Sheet No: 4.11

Sheet Title : HANGER AND BRACING WIRE CONNECTION MATRIX | rev. 09-21-15

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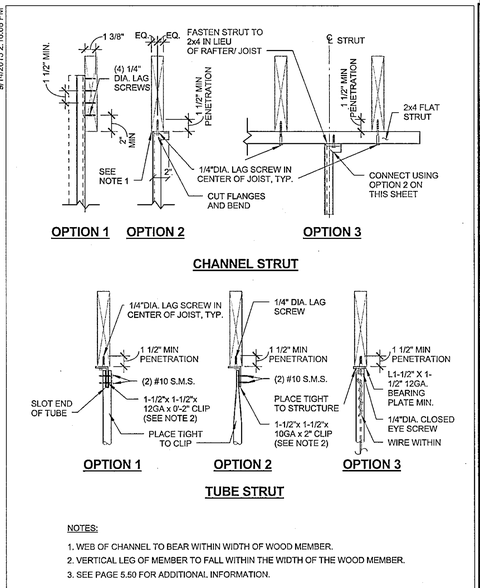


NOTES:

1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. SEE PAGE 5.50 FOR ADDITIONAL INFORMATION.

Basis Document : DSA IR 25-2.13 | Sheet No: 5.60

Sheet Title : STRUT CONNECTION TO SAWN TIMBER WITHOUT GYPSUM BOARD | rev. 09-21-15

PER DSA IR 25-2.13 METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS: FOR ADDITIONAL INFORMATION, REFER TO DSA IR 25-2.13, REVISED 04-10-17

NOTE: THE FOLLOWING REQUIREMENTS APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF. HEAVY SYSTEMS, SYSTEMS THAT ARE NOT FLAT AND LEVEL, THOSE SUPPORTING LATERAL LOADS FROM PARTITIONS, AND FREE FLOATING CEILINGS SUPPORTED BY CHAINS OR CABLES, ARE BEYOND THE REQUIREMENTS OF THIS IR AND WILL REQUIRE SPECIAL DESIGN AND DETAILS.

1. CEILING SYSTEM GENERAL NOTES

1.1. CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10A.

1.2. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.

1.3. CEILING SYSTEMS: THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT.
MANUFACTURER'S NAME: USG INTERIORS
PROJECT EVALUATION REPORT TYPE AND NUMBER: ESR-1222
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER: DX26
MANUFACTURER'S MODEL NUMBER - CROSS RUNNER: DXO-216

1.4. SEISMIC WALL CLIP (IF USED)
MANUFACTURER'S MODEL: NOT USED

1.5. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.

1.6. FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¾" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ¾" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP.

2. MATERIALS:

2.1. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09A. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.

2.2. GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2012, (AISI S100-12). MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

2.3. ELECTRICAL METTALIC TUBE (EMT) SHALL HAVE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.1. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC.

3.2. HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUITS, AND EQUIPMENT.

3.3. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

3.4. SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

3.5. HANGER AND BRACING WIRE ATTACHMENT TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.).

4. FASTENERS AND WELDING:

4.1. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN 3 EXPOSED THREADS.

4.2. EXPANSION ANCHORS SHALL BE: HILTI KWIK BOLT TZ 3/8" Ø X 3" MC; ESR-1917

4.3. POWER-ACTIVATED FASTENERS SHALL BE: HILTI X-U P8; ESR-2269 SHANK PDF .154" Ø

4.4. IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN THE STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.

4.5. POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

4.6. CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLATION OF POST-INSTALLED ANCHORS.

4.7. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR

5.1. POST INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LB. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1910A.5.

5.2. POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1910A.5.

7. LIGHT FIXTURES:

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

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

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

7.4. NOT USED.

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

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

8. SERVICES WITHIN THE CEILING:

8.1. ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTIING BRACKETS, CEILING MOUNTED AIR TERMINALS, OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEM BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO (2) ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

8.2. CEILING MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

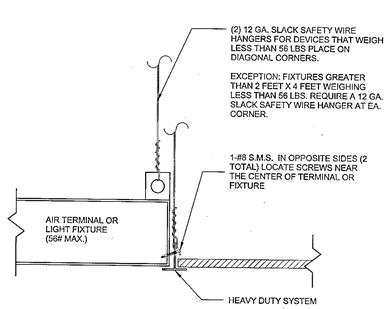
8.3. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS, OR OTHER DEVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

8.4. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS, OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

9. OTHER DEVICES WITHIN THE CEILING:

9.1. ALL LIGHT WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LB. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

2/10/2016 10:42:51 AM



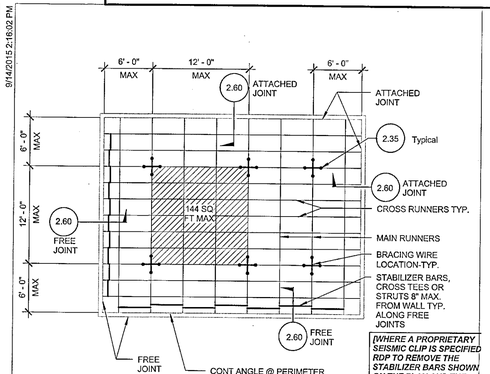
Basis Document : DSA IR 25-2.13

Sheet Title : SUSPENDED ACOUSTICAL CEILING - LIGHT FIXTURES/ AIR TERMINAL SUPPORT DETAIL

rev.	09-21-15
rev.	02-10-16

Sheet No: 2.80

9/14/2015 2:16:02 PM



NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

Basis Document : DSA IR 25-2.13

Sheet Title : TYPICAL CEILING PLAN FOR 12'-0" x 12'-0" Brace Assembly Spacing

rev.	09-21-15

Sheet No: 2.12

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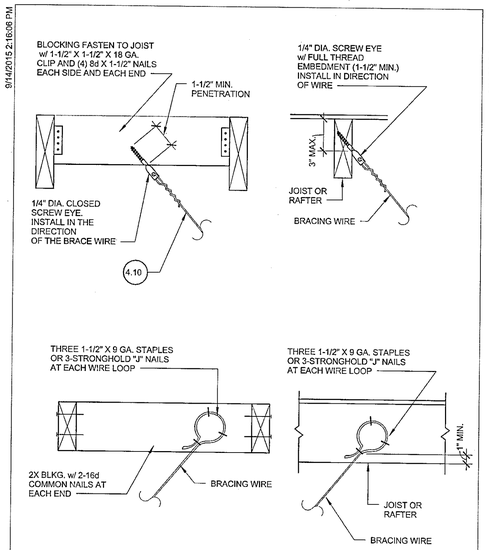

Basis Document : DSA IR 25-2.13

Sheet Title : BRACING WIRE CONNECTION TO SAWN TIMBER

rev.	09-21-15

Sheet No: 4.35

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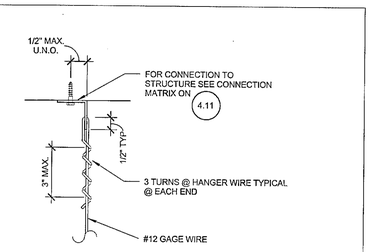
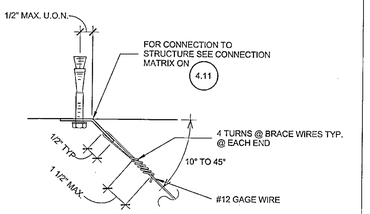


HANGER WIRE



BRACING WIRE

Basis Document : DSA IR 25-2.13

Sheet Title : HANGER AND BRACING WIRE CONNECTION - TYPICAL WIRE TURNS

rev.	09-21-15

Sheet No: 4.10

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

GENERAL NOTES

1. REFER TO DSA IR 25-2.13: METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILING: 2013 CBC

TABLE 1, LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter, SDS	Brace Assembly Spacing (ft.)	
	z/h ≤ 0.5[a]	z/h ≥ 0.5[a,b]
SDS ≤ 1.15	12 x12	12 x12

SDS USED: 1.0 (PER STRUCTURAL [illegible] ; PAGE S1.0)

a. WHERE, AS DEFINED IN ASCE 7, SECTION 13.3.1:
z = HEIGHT IN STRUCTURE OF POINT OF ATTACHMENT OF CEILING WITH RESPECT TO THE BASE.

h = AVERAGE ROOF HEIGHT OF THE STRUCTURE WITH RESPECT TO THE BASE.
b. IT SHALL BE PERMITTED TO USE THE BRACE ASSEMBLY SPACING FOR "z/h > 0.5" FOR THE FULL BUILDING HEIGHT.

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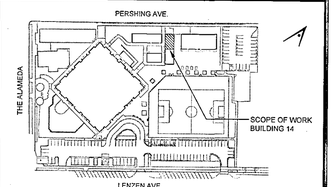
Legend

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB
1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

CEILING DETAILS

Regulatory Agency Approval

IDENTIFICATION STAMP
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01-116879
AC. FLS SS KF
DATE OCT 05 2017

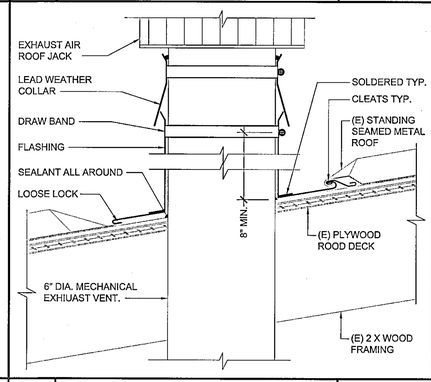
Architect Seal

LICENSED ARCHITECT WILLIAM E. GUILD No. C-23519 REN. 9-30-19 STATE OF CALIFORNIA

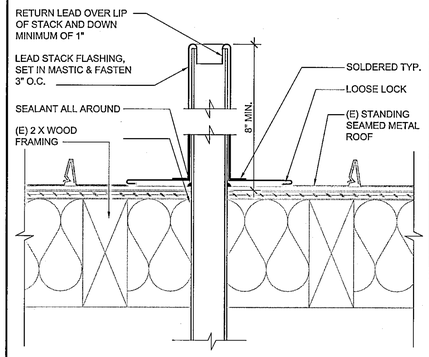
File Number	43-65
Application Number	01-116879
Project No.	06317
Date	07/20/17

Drawing No

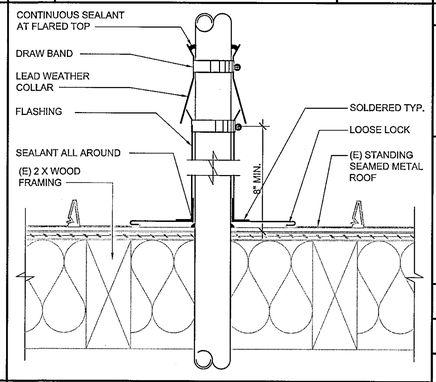
A12.41



3 ROOF DUCT FLASHING DETAIL 1 1/2" = 1'-0"



2 ROOF STACK DETAIL 1 1/2" = 1'-0"



1 ROOF VENT FLASHING DETAIL 1 1/2" = 1'-0"

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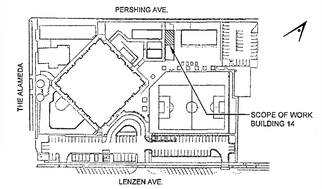

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ROOF DETAILS

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Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOLDEN
No. C-23919
REN. 8-30-19
STATE OF CALIFORNIA

File Number
43-65

Application Number
01-116879

Project No.
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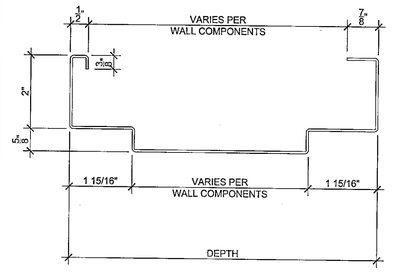
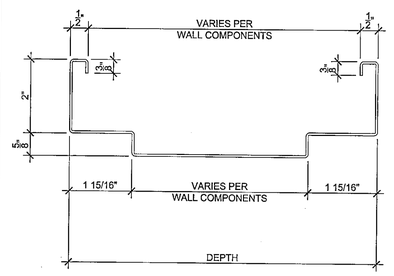
Date
07/20/17

Drawing No
A12.42



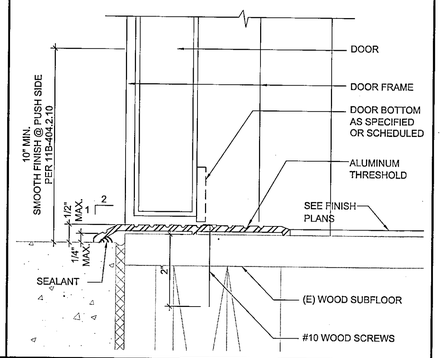
NOTES:
1. VERIFY WALL COMPONENTS - REFER TO FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR FINISHES AND STRUCTURAL DRAWINGS FOR SHEER WALL REQUIREMENTS.

8 EXTERIOR DOOR FRAME, TYP. 6" = 1'-0"

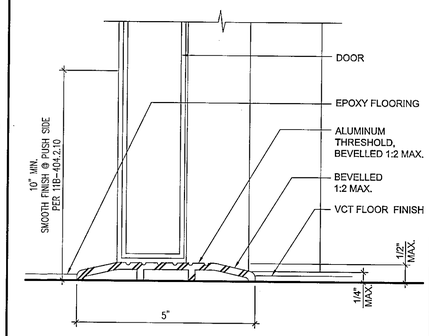


NOTES:
VERIFY WALL COMPONENTS - REFER TO FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR FINISHES AND STRUCTURAL DRAWINGS FOR SHEER WALL REQUIRMENTS

4 INTERIOR DOOR FRAME, TYP. 6" = 1'-0"



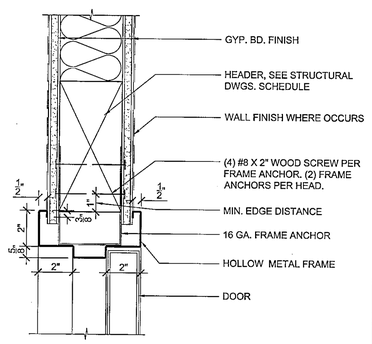
7 EXTERIOR DOOR THRESHOLD 6" = 1'-0"



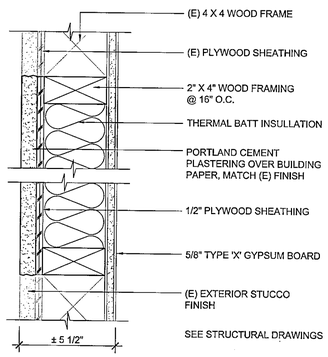
3 INTERIOR DOOR THRESHOLD 6" = 1'-0"

NOTE:
FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS

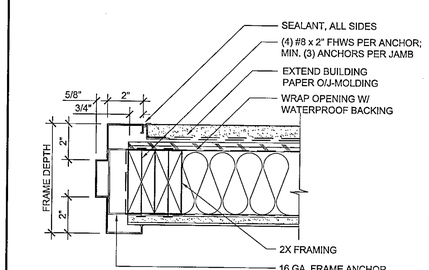
6 HEAD DETAIL - EXTERIOR DOOR 3" = 1'-0"



2 HEAD DETAIL - INTERIOR DOOR 3" = 1'-0"

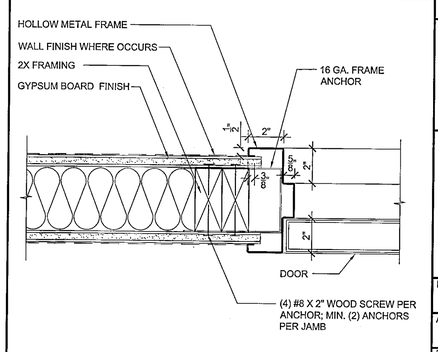


9 WINDOW INFILL - JAMB 3" = 1'-0"



NOTE:
FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS

5 JAMB DETAIL - EXTERIOR DOOR 3" = 1'-0"



1 JAMB DETAIL - INTERIOR DOOR 3" = 1'-0"

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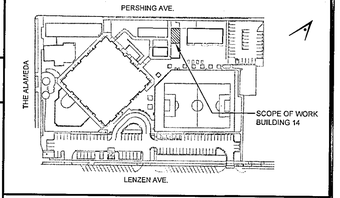

Project Title

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SANTA CLARA COUNTY
OFFICE OF EDUCATION

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2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

DOOR & WINDOW DETAILS

Regulatory Agency Approval

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DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C23916
REN. 8-30-19
STATE OF CALIFORNIA

File Number 43-65

Application Number 01-116879

Project No. 06317

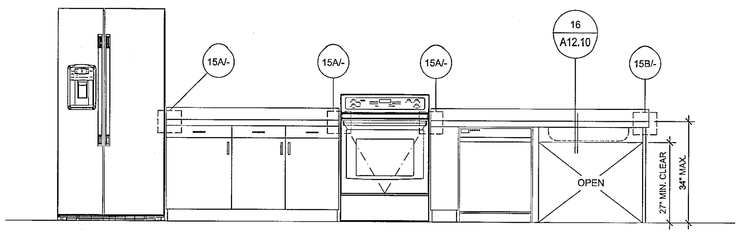
Date 07/20/17

Drawing No

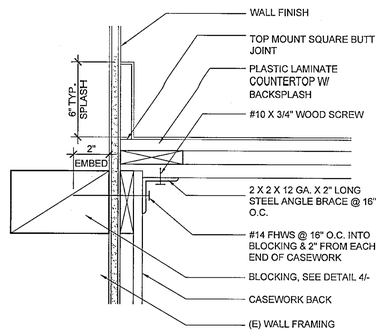
A12.50

20

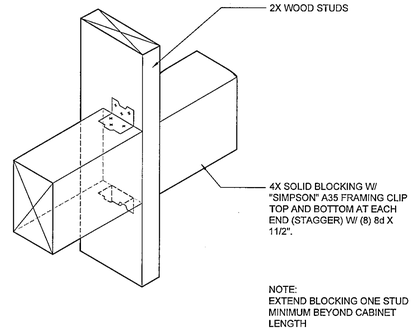
16 LIFE-LAB CASEWORK KEY ELEVATION 1/2" = 1'-0"



8 CASEWORK ANCHORAGE 3" = 1'-0"



4 WOOD STUD BLOCKING, TYP. 3" = 1'-0"



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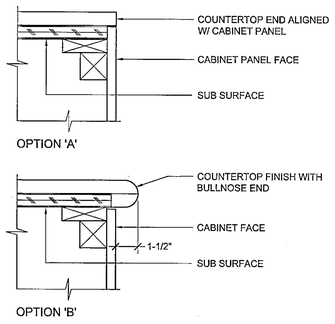
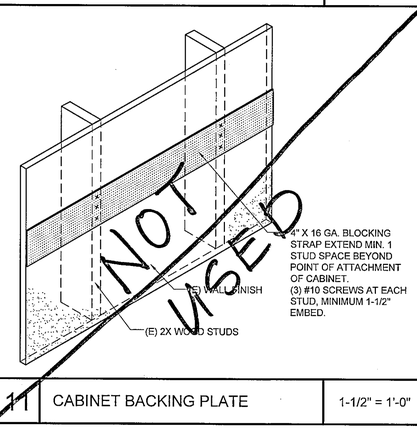
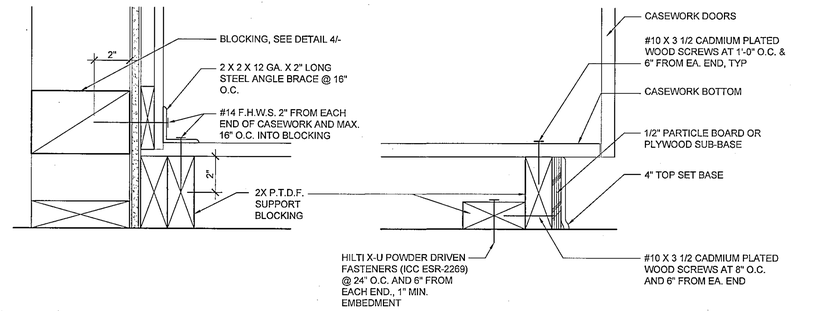
15 COUNTERTOP EDGE 3" = 1'-0"



11 CABINET BACKING PLATE 1-1/2" = 1'-0"



7 CASEWORK ANCHORAGE @ BASE 3" = 1'-0"



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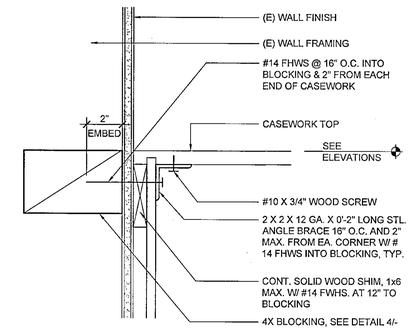
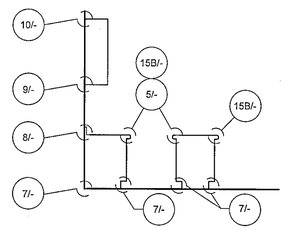
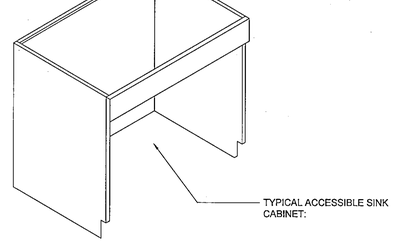
10 CASEWORK ANCHORAGE 3" = 1'-0"



6 CASEWORK KEY 1/4" = 1'-0"



2 ACCESSIBLE SINK CABINET 3/4" = 1'-0"



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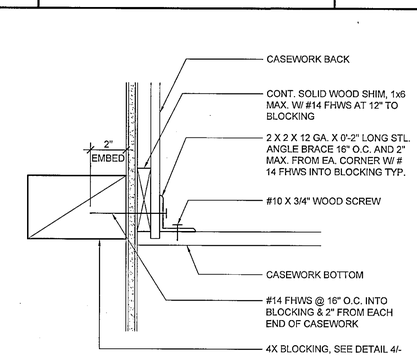
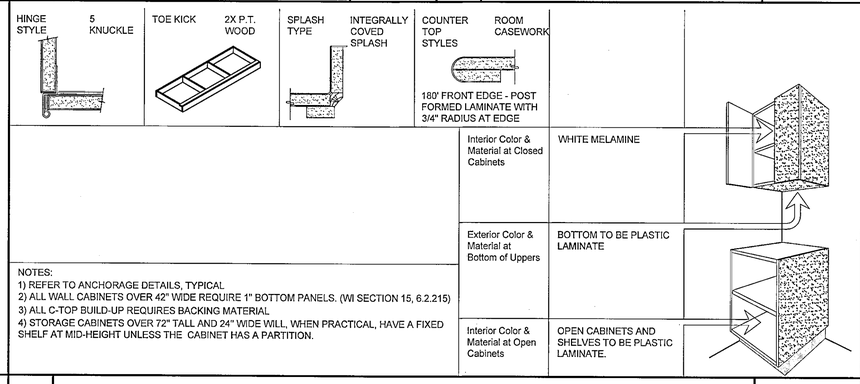
9 CASEWORK ANCHORAGE 3" = 1'-0"



5 CASEWORK 1/4" = 1'-0"



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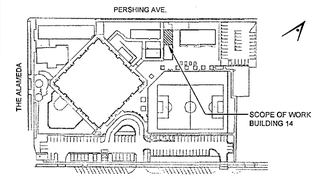
Legend

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB

1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY
OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

CASEWORK DETAILS

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC. OR FLS CO SS KF
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM F. GOULD
No. C-23919
REN. 8-30-19
STATE OF CALIFORNIA

File Number	Drawing No
43-65	A12.60
Application Number: 01-116879	
Project No.: 06317	
Date: 07/20/17	

STRUCTURAL SPECIFICATIONS

- WOOD

A. FRAMING LUMBER – DOUGLAS FIR U.N.O.:
   1. JOIST AND RAFTERS: NO.1, U.N.O.
   2. BEAMS, POST AND HEADERS: NO.1, U.N.O.
   3. STUDS, PLATES, BLOCKS, LIGHT FRAMING AND MISC: NO.1, U.N.O.
   4. THE MOISTURE CONTENT OF ALL LUMBER 4X OR GREATER SHALL BE VERIFIED BY PROJECT INSPECTOR AT THE TIME OF FRAMING.
   5. MOISTURE CONTENT SHALL NOT EXCEED 15% FOR WALL STRUCTURAL MEMBERS (i.e. HEADERS, TOP PLATES, SILL AND STUDS). 2X MEMBERS SHALL BE STAMPED "S-DRY".

C. PROVIDE LATERAL SUPPORT FOR BEAMS, JOIST AND RAFTERS PER CBC SECTION 2308.4.6

D. FRAMING HARDWARE: ALL LIGHT GAUGE METAL CONNECTORS SHALL BE MANUFACTURED BY "SIMPSON STRONG TIE", OR ALTERNATE APPROVED BY THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. SIMPSON DESIGNATIONS ARE REFERENCED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, U.N.O. ON DRAWINGS. FINISH OF CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED.

E. NAILS:
   1. COMMON WIRE GAGE U.N.O. NAILING TO CONFORM TO CBC TABLE 2304.10.1 U.N.O.
   2. MACHINE APPLIED NAILS: MACHINE NAILING OF 5/16" PLYWOOD WILL NOT BE APPROVED. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT, THE APPROVAL BY THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR HAND HAMMERED OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY. MACHINE NAILING IS PROHIBITED AT DOUBLE SHEATHED PLYWOOD WALLS OR OTHER APPLICATIONS WHERE THE PRESENCE OF "SHINERS" CAN NOT BE VERIFIED BY VISUAL OBSERVATION. FOR DOUBLE SIDED PLYWOOD SHEAR WALLS, USE HAND NAILING FOR SECOND SIDE OF PLYWOOD.
   3. GALVANIZED NAILS WHERE THEY OCCUR SHALL BE HOT-DIPPED ZINC COATED.

F. LAG SCREWS PER ANSI/ASME STANDARD B18.2.1 PROVIDE LEAD HOLE SAME DIAMETER AND DEPTH AS SHANK AND THEN DRILL HOLE 60%-70% OF SHANK DIAMETER FOR THREADED PORTIONS.

DRAWING INDEX

ABBREVIATIONS

@	AT
A.B.	ANCHOR BOLT
A.C.I.	AMERICAN CONCRETE INSTITUTE
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT.	ALTERNATE
ARCH.	ARCHITECTURAL
A.S.T.M.	AMERICAN STANDARD FOR TESTING AND MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY
(B)	BOTTOM
BLDG.	BUILDING
C.G.S.	CENTROID OF TENDON
C.I.P.	CAST-IN-PLACE CONCRETE
C.J.	CONSTRUCTION JOINT
℄	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CTR.	CENTER
CU FT.	CUBIC FOOT
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
d_b	BAR DIAMETER
DBL.	DOUBLE
DET.	DETAIL
DIA. ⌀	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
D.L.	DEAD LOAD
DN.	DOWN
DWG.(S)	DRAWING(S)
EA.	EACH
E.F.	EACH FACE
EL.	ELEVATION
ELEV.	ELEVATOR
EQ.	EQUAL(LY)
E.S.	EACH SIDE
E.W.	EACH WAY
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
FLR.	FLOOR
FTG.	FOOTING
GA.	GAGE
G.B.	GRADE BEAM
HORIZ.	HORIZONTAL
H.T.	HIP TRUSS
IN.	INCH(ES)
I.F.	INSIDE FACE
INFO.	INFORMATION
JT.	JOIST
K.	KIP (1,000 LBS.)
K/FT.,K/'	KIP PER FOOT
LG.	LONG
L.L.	LIVE LOAD
M.B.	MACHINE BOLT
M.D.	MID-DEPTH
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.A.	NEUTRAL AXIS
NO., #	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.H.	OPPOSITE HAND
O.F.	OUTSIDE FACE
O.W.J.	OPEN WEB JOIST
O.W.S.J.	OPEN WEB STEEL JOIST
P.	PROPERTY LINE, PLATE
P.S.F.	POUND PER SQUARE FOOT
P.S.I.	POUND PER SQUARE INCH
P.T.	POST-TENSIONING
R.	RADIUS
RCJ	ROUGHEN CONTROL JOINT
R.D.	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCE(D)/REINFORCING
REQD.	REQUIRED
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SEAONC	STRUCTURAL ENGINEERS ASSOCIATION OF NORTHERN CALIFORNIA
SEC.	SECTION
SIM.	SIMILAR
S.J.	SLAB JOINT
S.O.G.	SLAB ON GRADE
SPECS.	SPECIFICATIONS
SQ.	SQUARE
STD.	STANDARD
STR.	STRIAGHT
SYM.	SYMMETRICAL
(T)	TOP
(T&B)	TOP & BOTTOM
T.S.	STRUCTURAL TUBE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.T.	VALLEY TRUSS
W/	WITH
W.J.	WALL JOINT
W.P.	WATERPROOFING
W.W.F.	WELDED WIRE FABIRC

SYMBOLS

FOUNDATION PLAN

- DENOTES (N) TYPICAL WOOD NON-STRUCTURAL PARITITION WALL
- DENOTES (E) WOOD WALL
- DENOTES (E) CONTINUOUS WALL FOOTING TYPICAL
- DENOTES (E) ISOLATED SPREAD FOOTING

ROOF PLAN

- DENOTES (N) TYPICAL WOOD NON-STRUCTURAL PARITITION WALL
- DENOTES (E) WOOD WALL BELOW ROOF FRAMING LEVEL
- DENOTES (E) CEILING JOIST TYP.
- DENOTES (N) WOOD STRUCTURAL MEMBER TYP.
- DENOTES (N) WOOD POST BELOW

PROJECT DESIGN DATA

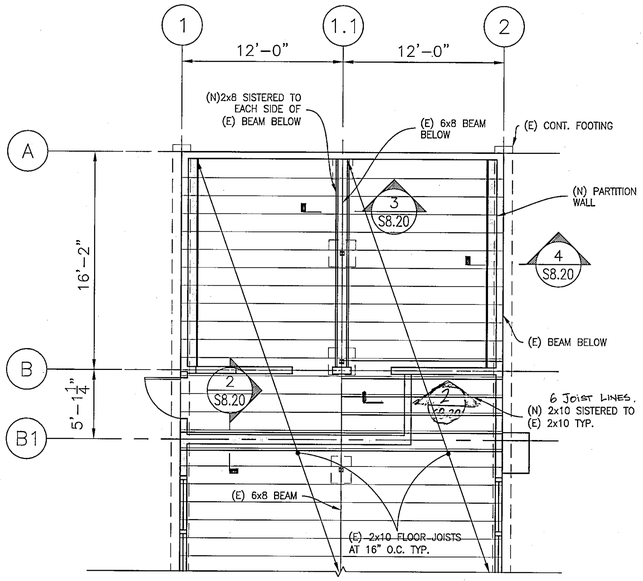
GOVERNING CODE: 2016 CALIFORNIA BUILDING CODE

DESIGN LOADS
- CEILING DEAD LOAD = 11 psf
- CEILING LIVE LOAD = 20 psf

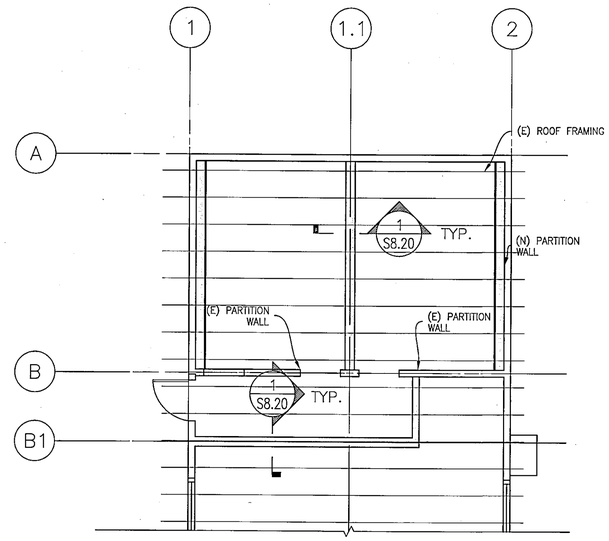
SEISMIC DESIGN
- SITE CLASS D
- S_{DC} = D
- S_S = 1.50 Fa = 1.0 S_{DS} = 1.00
- S_1 = 0.60 Fv = 1.5 S_{D1} = 0.60
- α_P = 1.0, R_P = 2.5 (ALL OTHER WALLS AND PARTITIONS)
- I = 1.25

PROJECT STRUCTURAL SCOPE

THE SCOPE OF THIS PROJECT APPLIES TO THE REMODEL OF THE EXISTING SCHOOL BUILDING. THE REMODEL DOES NOT INCLUDE ANY MODIFICATIONS TO THE EXISTING BUILDING LATERAL FORCE RESISTING SYSTEM AND THEREFORE ONLY THE BUILDINGS GRAVITY SYSTEM IS APPLICABLE TO THE SCOPE OF WORK. INCLUDED IN THE THE BATHROOM REMODEL IS REMOVING AND REPLACING NON-STRUCTURAL PARTITION WALLS AND FLOOR BEAMS.



(E) FLOOR FRAMING PLAN 1/S1.0
3/16"=1'-0"



(E) ROOF FRAMING PLAN 2/S1.0
3/16"=1'-0"

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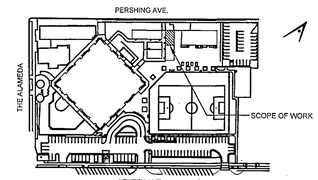
REGISTERED PROFESSIONAL ENGINEER MICHAEL W. DEGERT S.E. 5194 Exp. 12/31/17 STRUCTURAL STATE OF CALIFORNIA

Legend

Key Plan



Project Title

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SAN JOSE, CA 95126

SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date

Drawing Title

GENERAL SPECIFICATIONS, FOUNDATION AND CEILING FRAMING PLANS

Regulatory Agency Approval

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
01-116829
AC — FLS — SS KF
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT WILLIAM E. GOULD No. C-23919 REN. 9-30-17 STATE OF CALIFORNIA

File Number

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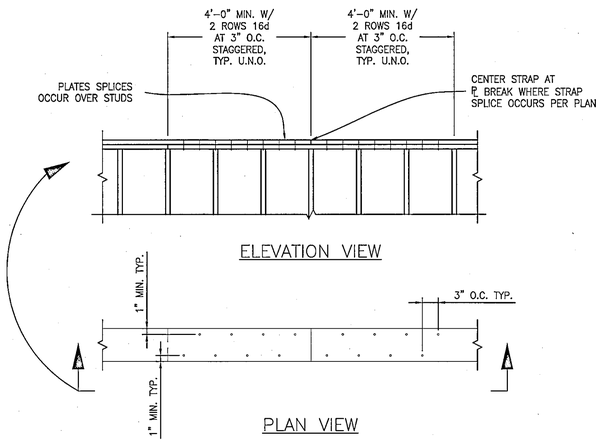
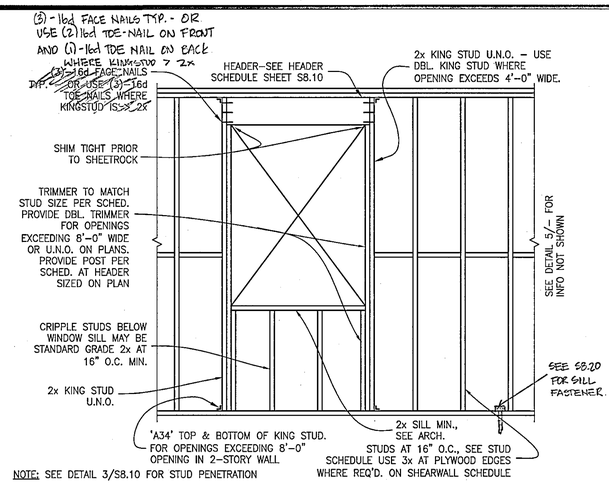
Drawing No

S1.0



7 S8.10 DETAIL – TOP PLATE SPLICE

1/2" = 1'-0"



NOTE: SEE DETAIL 3/S8.10 FOR STUD PENETRATION

4 S8.10 DETAIL – TYP. WALL FRAMING

1/2" = 1'-0"

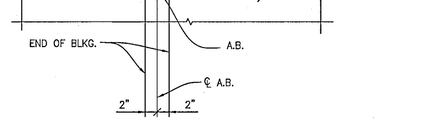
TYPICAL NAILING SCHEDULE

CONNECTION	NAILING
JOIST OR RAFTER TO TOP PLATE	3–8d TOENAILS
TOP PLATE TO STUD, END NAIL	2–16d
STUD TO 2x SOLE PLATE	4–8d, TOENAIL OR 2–16d, END NAIL
STUD TO 3x SOLE PLATE	4–8d, TOENAIL OR 2–20d (PRE–DRILL), END NAIL
DOUBLE STUDS, FACE NAIL	16d AT 24" O.C.
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3–8d
RIM JOIST TO TOP PLATE, TOENAIL	8d AT 6" O.C.
CONTINUOUS HEADER TO STUD, TOENAIL	4–8d

NOTES:
1. NAILING REQUIREMENTS SHOWN HERE ARE SUPERCEDED WHERE REQUIREMENTS OF THE STRUCTURAL DRAWINGS INDICATE DIFFERENT ATTACHMENT.
2. THE REQUIREMENTS ABOVE ARE DERIVED FROM THE 2016 CALIFORNIA BUILDING CODE CHAPTER 23, TABLE 2304.10.1. ATTACHMENTS NOT INDICATED OF THE STRUCTURAL DRAWINGS SHALL BE IN CONFORMANCE TO THESE MINIMUM REQUIREMENTS.

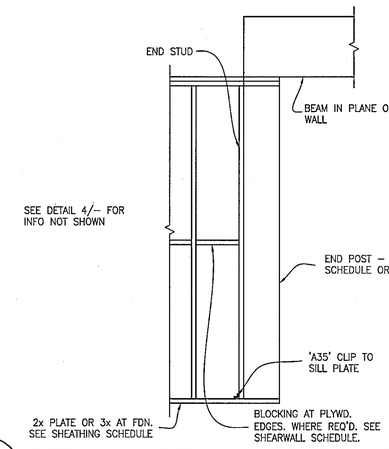
1 S8.10 DETAIL – NAILING SCHEDULE

N.T.S.



8 S8.10 DETAIL – FRAMING WHERE STUD CONFLICTS W/ A.B.

1" = 1'-0"



5 S8.10 DETAIL – BEAM SUPPORT AT WALL

1/2" = 1'-0"

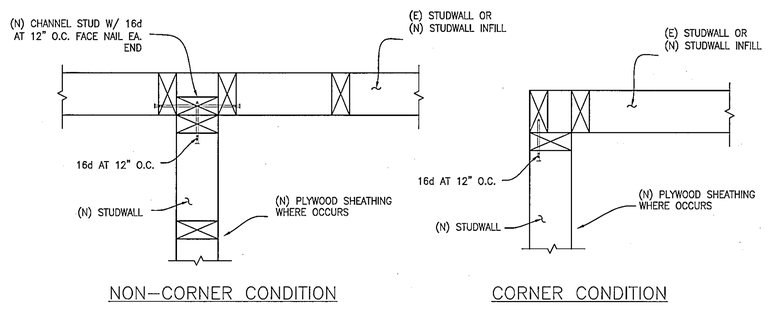
STUD SCHEDULE

MAX. NOM. PLATE HT.	INTERIOR NON–BEARING WALLS		
	2x4 AT 16" O.C.	2x6 AT 16" O.C.	2x8 AT 16" O.C.
11'–9"			

2 S8.10 DETAIL – STUD SCHEDULE

1" = 1'-0"

NON–STRUCTURAL PARTITION WALLS



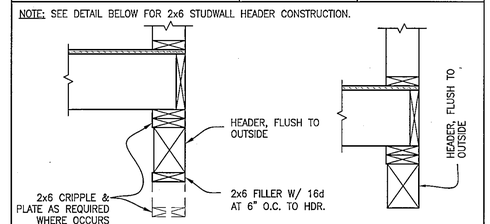
9 S8.10 DETAIL – (N) WALL PERP. TO (E) OR (N) WALL

1" = 1'-0"

HEADER SCHEDULE[1]

OPENING SIZE	MINIMUM HEADER UNO ON PLAN	
	2x4 STUDWALL	2x6 STUDWALL
0 – 3'	4x6	6x6
3.1' – 6'	4x8	6x6
6.1' – 8'	4x10	6x8
8.1' – 11'	4x12	6x10

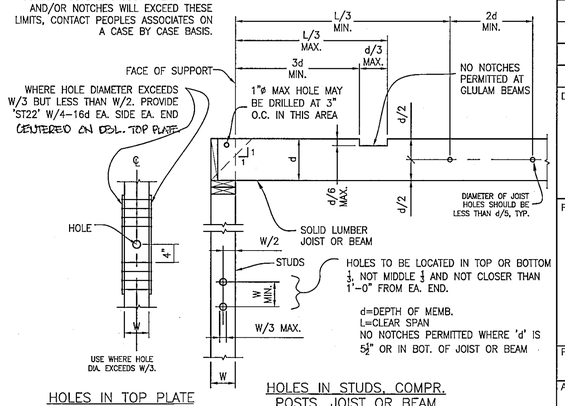
NOTE: SEE DETAIL BELOW FOR 2x6 STUDWALL HEADER CONSTRUCTION.



6 S8.10 DETAIL – HEADER SCHEDULE

N.T.S.

NOTE:
THIS DETAIL DEPICTS LIMITS FOR NOTCHING AND HOLES IN JOISTS, BEAMS, PLATES, COMPR. POSTS & STUDS. WHERE HOLES AND/OR NOTCHES WILL EXCEED THESE LIMITS, CONTACT PEOPLES ASSOCIATES ON A CASE BY CASE BASIS.



3 S8.10 DETAIL – ALLOWABLE HOLES STRUCTURAL SAWN LUMBER MEMBERS

N.T.S.

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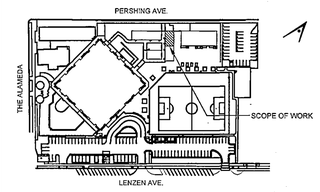
Legend

Key Plan



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No	Revisions/Submissions	Date

Drawing Title

TYPICAL WALL FRAMING DETAILS

Regulatory Agency Approval

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
01-116829
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Architect Seal

LICENSED ARCHITECT WILLIAM E. GOLFIELD No. C-23919 REN. 9-30-17 STATE OF CALIFORNIA

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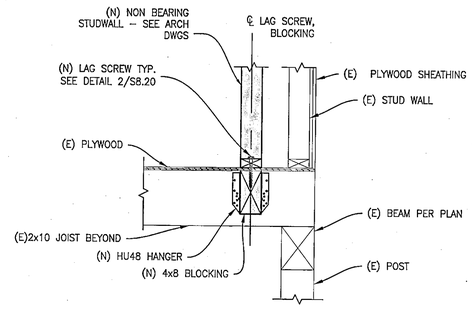
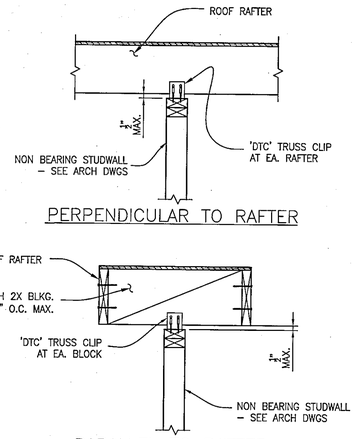
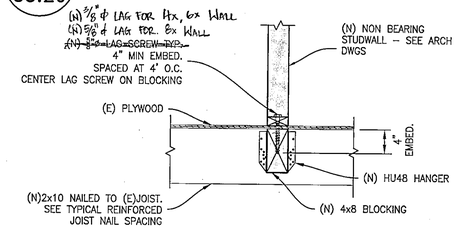
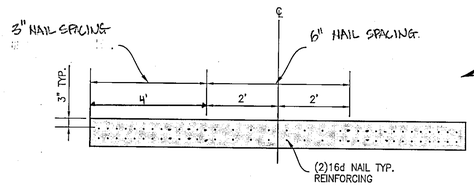


4 / S8.20 DETAIL – NON-BEARING WALL CONNECTION
1" = 1'-0"

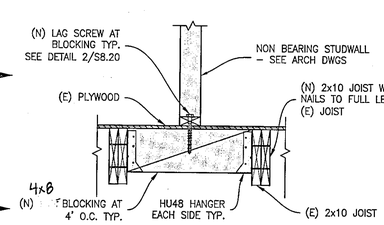


1 / S8.20 DETAIL – NON-BEARING WALL TO RAFTER CONNECTION
1" = 1'-0"

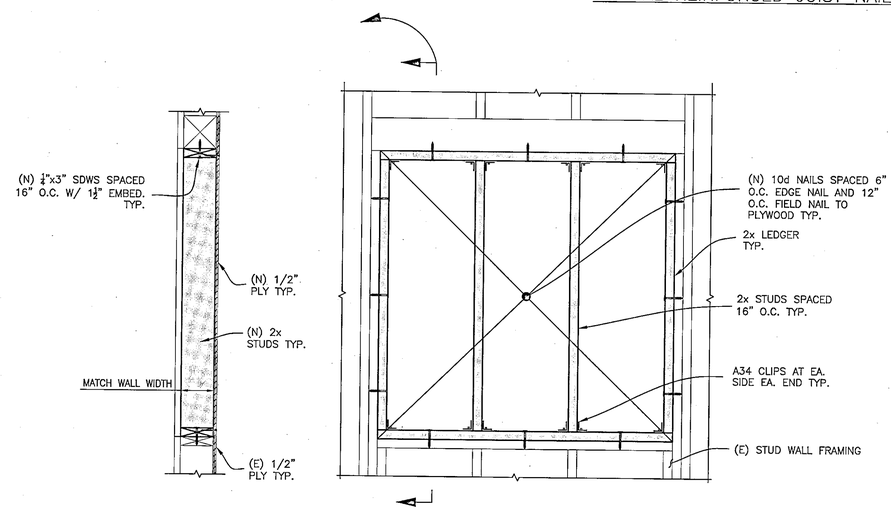




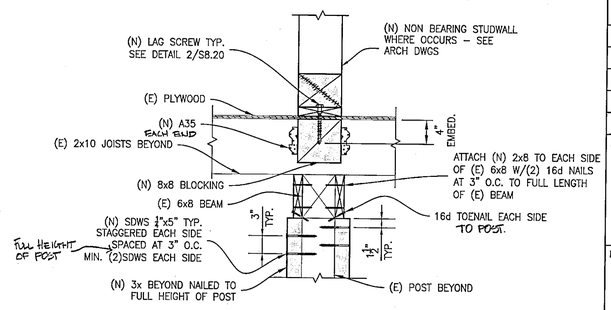
TYPICAL REINFORCED JOIST NAIL SPACING



2 / S8.20 DETAIL – NON-BEARING WALL AT JOIST
1" = 1'-0"



5 / S8.20 (N) INFILL FOR WOOD FRAMED WALLS
1" = 1'-0"



3 / S8.20 DETAIL – NON-BEARING WALL AT (E) BEAM
1" = 1'-0"

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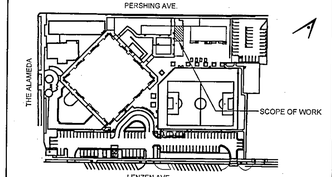

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WOOD DETAILS

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S8.20

MECHANICAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2016 EDITION OF CALIFORNIA BUILDING CODES AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING 2016 CALIFORNIA GREEN BUILDING STANDARDS (PART 11) AND 2016 CALIFORNIA ENERGY CODES (PART 6).
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 AS REQUIRED FOR A COMPLETE AND WORKABLE INSTALLATION. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS. THEY SHALL BE RESPONSIBLE FOR A COMPLETE WORKING SYSTEM PER CONTRACT DOCUMENTS.
4. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING EQUIPMENT, DUCTWORK, AND REGISTERS 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, THE CONTRACTOR IS TO NOTIFY OWNER IMMEDIATELY AND NO NEW DUCTWORK IS TO BE INSTALLED UNTIL THE ISSUE IS RESOLVED.
5. THESE DRAWINGS AND NOTES SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE PART OF A SEPARATE AND COMPLETE MECHANICAL SPECIFICATION.
6. COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, FIRE SPRINKLER SYSTEM, AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
7. 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.
8. DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE.
9. 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, THE AIR BALANCE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT DONE SO THE AIR BALANCE CONTRACTOR SHALL BEAR ALL COSTS INCURRED FOR WORK THAT MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. CONTRACTOR SHALL PROVIDE THREE COPIES OF THE AIR BALANCE REPORT TO THE ENGINEER FOR APPROVAL. 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.
11. CONTROLS CONTRACTOR AND AIR BALANCE CONTRACTOR SHALL COORDINATE WORK AND PERFORM NECESSARY TASKS AS REQUIRED TO OBTAIN AIR FLOW QUANTITIES FOR SYSTEMS SHOWN HEREIN.
12. 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 AS APPLICABLE.
13. PROVIDE OPERATING PROCEDURES FOR COOKING EQUIPMENT PER CMC SECTION 514.1.
14. 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.
15. PLATFORMS, CURBS, AND FLASHING FOR MECHANICAL EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. WHERE THERE IS A CONFLICT WITH THE MECHANICAL PLANS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
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-LAMIANTE SIGN WITH 1/2" WHITE LETTERS ON BLACK BACKGROUND.
    - 17.2. VALVES: 1-1/2" DIAMETER BRASS DISC STAMPED WITH 3/8" HIGH LETTERS IDENTIFYING TYPE OF SERVICE AND VALVE NUMBER.
    - 17.3. PIPING: SELF-STICKING PIPE MARKERS CONSISTING OF PIPE SERVICE WORDING AND ARROW INDICATING DIRECTION OF FLOW ON A.S.A. 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, FLUE, FUEL BURNING APPLIANCES 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. CONTRACTOR SHALL DETERMINE LOCATIONS WHERE REQUIRED PRIOR TO BID. THIS SHALL BE PROVIDED AT NO ADDITIONAL COST.
20. ALL HVAC EQUIPMENT SERVING NORMALLY OCCUPIED SPACES SHALL HAVE MERV 8 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 TO COMPLY WITH THE REQUIREMENTS OF TITLE 24.
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 SHALL VERIFY ALL CLEARANCES AND AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATION.
26. CONTRACTOR TO SUBMIT ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION DEVICES, AND OTHER ACCESSORIES TO THE ENGINEER FOR APPROVAL PRIOR TO ANY ORDERING OF SUCH ITEMS.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AIR CONDITIONING EQUIPMENT WITH THE THRU-BASE POWER, CONTROL, AND GAS CONNECTIONS. VERIFY ALL CONNECTION LOCATIONS WITH UNIT MANUFACTURER AND COORDINATE WITH OTHER TRADES AS NECESSARY.
28. COORDINATE ALL WORK WITH THE ARCHITECTURAL, STRUCTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES. INSTALL ALL WORK TO CLEAR NEW AND EXISTING 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, THE ARCHITECT AND THE ENGINEER PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
29. DUCTWORK, PIPING, CONDUIT, ETC. PENETRATING FIRE RATED CONSTRUCTION SHALL HAVE APPROVED FIRE STOPPING.
30. CONTROL SCHEMATICS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL DEVICES REQUIRED AND SEQUENCE OF OPERATION.
31. LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF GOVERNING BODIES HAVING JURISDICTION THEREOF.
32. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED RELAY ACCESSORIES FOR CONNECTION OF 120V/1Ø VENTILATION EQUIPMENT TO 277V/1Ø LIGHTING AS APPLICABLE.
33. DUCTWORK CONSTRUCTION SHALL MEET THE FOLLOWING SYSTEM PRESSURE REQUIREMENTS:
    - 33.1. ALL OTHER DUCTWORK - 2 INCH WATER COLUMN
34. ALL SUPPLY, RETURN AND EXHAUST DUCT JOINTS SHALL BE SEALED PER CALIFORNIA MECHANICAL CODE CHAPTER 6 REQUIREMENTS. SEAL CLASS B.
35. 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.
36. ALL FLEXIBLE DUCT SHALL NOT EXCEED SEVEN FEET IN LENGTH TO RESPECTIVE DIFFUSERS, GRILLES, OR OTHER AIR DEVICES.
37. INSTALL DRYER VENT DUCTWORK IN CONFORMANCE TO CMC SECTION 504.4.3.
38. 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.
39. 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.
40. 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.
41. 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 OFFICE OF THE SATE ARCHITECT.
42. 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.
43. DUCTWORK HANDLING CONDITIONED AIR SHALL BE INSULATED OR LINED. INTERIOR DUCTWORK SHALL BE INSULATED WITH A NON-FIBEROUS 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.
44. CONTRACTORS OPTIONS: WHERE ROUND LINED DUCTWORK IS INDICATED, CONTRACTOR MAY USE RECTANGULAR DUCTWORK OF EQUIVALENT NET FREE AREA OR PRESSURE DROP (WHICHEVER IS MOST RESTRICTIVE).
45. 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. THE MECHANICAL CONTRACTOR SHALL 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.
46. HVAC CONTRACTOR TO REMOVE ALL LEFT OVER DUCTWORK SCRAPES, ETC. (IF ANY) AND LEAVE PREMISES CLEAN AND FREE OF ANY TRASH OR DEBRIS DUE TO THEIR WORK.

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. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCED AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

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

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

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

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

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 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.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., SMACNA OR OSHPD OPM) COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND THE BRACE LOADS.

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

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

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	AL	ACOUSTICALLY LINED
	BOD	BOTTOM OF DUCT
	CFM	CUBIC FEET PER MINUTE
—○—	BDD	DAMPER: BACKDRAFT
	FSD	DAMPER: FIRE/SMOKE
	FD	DAMPER: FIRE
—╪—	MVD	DAMPER: MANUAL VOLUME
	Ø	DIAMETER
	DN	DOWN
	DS	DISCONNECT SWITCH
—Ⓢ—		DUCT SMOKE DETECTOR
	EER	ENERGY EFFICIENCY RATIO
	EA	EXHAUST AIR
	F	FAN
	FLA	FULL LOAD AMPS
⌀⌀⌀⌀		FLEXIBLE DUCT
	HP	HORSEPOWER
	MCA	MINIMUM CIRCUIT AMPACITY
	MOCP	MAXIMUM OVERCURRENT PROTECTION
	MS	MOTOR STARTER
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	OA	OUTSIDE AIR
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
	RA	RETURN AIR
	SA	SUPPLY AIR
	TA	TRANSFER AIR
	TP	RATED THRU PENETRATION
	SEER	SEASONAL EER
	SAD	SEE ARCHITECTURAL DRAWING
	SSD	SEE STRUCTURAL DRAWING
	(CO_2)	SENSOR: CARBON DIOXIDE
	Ⓣ	THERMOSTAT
	TYP	TYPICAL
	UON	UNLESS OTHERWISE NOTED
	WT	WEIGHT
	24x12	RECTANGULAR DUCT - INCHES
	12"	ROUND DUCT - INCHES

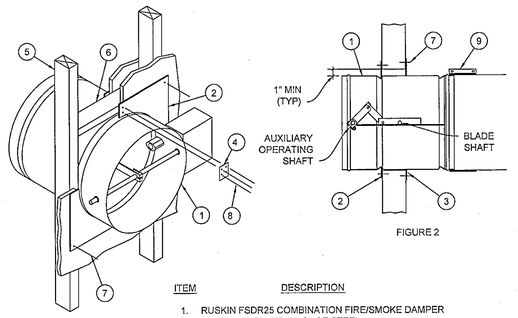


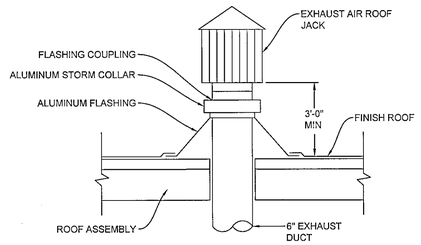
FIGURE 1

FIGURE 2

ITEM	DESCRIPTION
1.	RUSKIN FSDR25 COMBINATION FIRE/SMOKE DAMPER
2.	RETAINING PLATE, 20 GAGE STEEL
3.	DAMPER PLATE, 20 GAGE PLATE
4.	SPLICE PLATE, 20 GAGE STEEL, TYP BOTH PLATES
5.	WOOD STUD
6.	WOOD FRAME
7.	1/2"X2" WOOD SCREW
8.	#10 X 1/2" SHEET METAL SCREW
9.	DRAW BAND

NOTES:

1. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE/SMOKE DAMPERS MUST BE INSTALLED IN THE PARTITION, NOT OUTSIDE THE PENETRATION
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTIONS OF TYPES SHOWN IN SMACNA LPDS, FIG. 2-13. SEAL JOINTS.
4. LINE OPENING WITH MINIMUM 5/8" DRYWALL
5. CSFM APPROVED, UL 555 FIRE RESISTANCE RATING, UL555S CLASS II, 250°F LEAKAGE AND ELEVATED TEMPERATURE RATING, FAIL CLOSE ON LOSS OF POWER, POWER OPEN-FAIL ACTUATOR FOR AUTOMATIC RESET.
6. SMOKE DETECTOR SHALL BE FURNISHED BY DIVISION 26 AND INSTALLED BY DIVISION 23.
7. ACTIVATION OF DUCT SMOKE DETECTOR SHALL CLOSE RESPECTIVE FIRE/SMOKE DAMPER. POWER AND SIGNAL WIRING BY DIVISION 26.
8. FIRE/SMOKE DAMPER DETAIL FOR REFERENCE ONLY.
9. FIRE/SMOKE DAMPER(S) SHALL BE CALIFORNIA STATE FIRE MARSHALL APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
10. MANUFACTURER'S INSTRUCTION SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
11. PROVIDE DUCT ACCESS PANEL FOR FIRE/SMOKE DAMPER.



02	DUCT THRU ROOF	N.T.S

01	FIRE SMOKE DAMPER DETAIL	N.T.S

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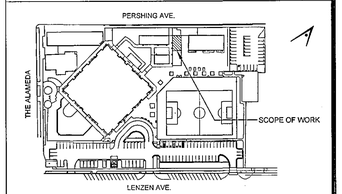
Legend

Key Plan



Project Title

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SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

MECHANICAL GENERAL NOTES AND LEGEND

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
ACCESS CODE KF
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. POPE
No. C-23019
REG. 9-30-19
STATE OF CALIFORNIA

File Number

Application Number

Project No.
06307

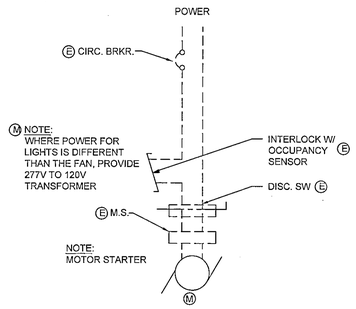
Date
07/20/17

Drawing No
M0.1

AIR DISTRIBUTION

STYLE	MFR	MODEL NO	APPLICATION	DESCRIPTION
A	TITUS	50F	T-BAR MOUNT EXHAUST/INTAKE	EGG CRATE FACE, WHITE FINISH, NO DAMPER
B		TDC	T-BAR MOUNT SUPPLY CEILING REGISTER	LOUVERED FACE, 2 WAY DISCHARGE PATTERN, STEEL WITH WHITE FINISH

CEILING DIFFUSER CALL OUT DESCRIPTION: 200-10X10 EA-A
- 200 = CFM
- 10 = NECK SIZE
- EA-A = STYLE
- TYPE



FAN CONTROL BY OCCUPANCY SENSOR

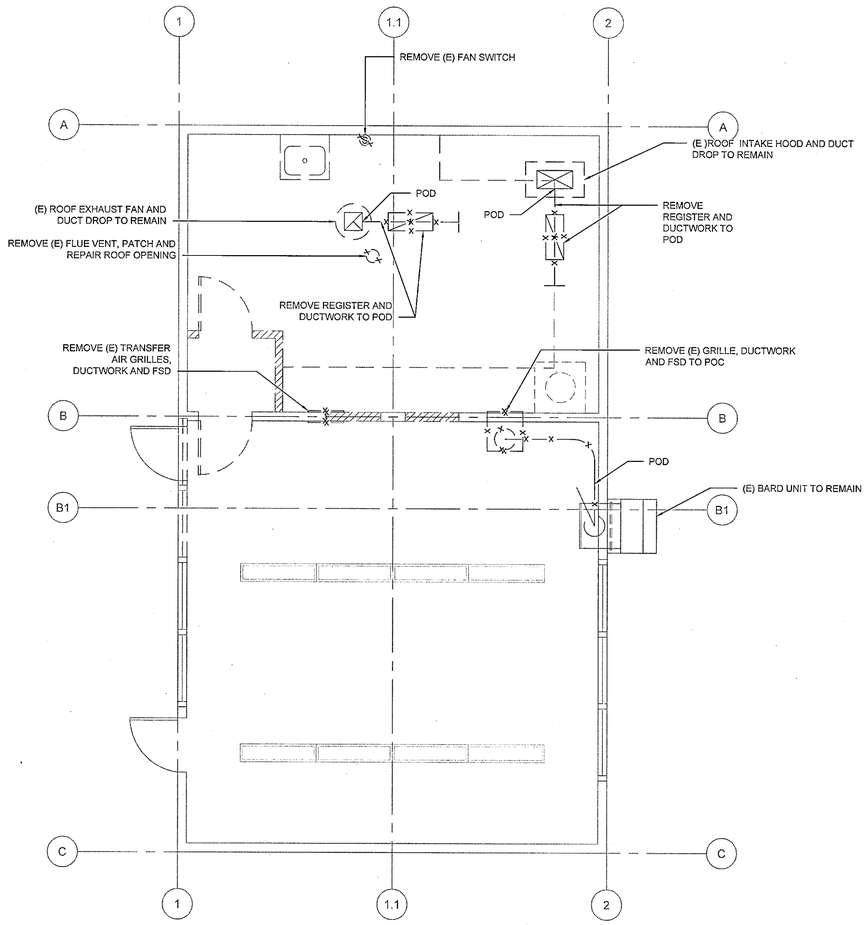
SHEET NOTES

WIRING DIAGRAMS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL SUBMIT CONTROL DRAWINGS FOR APPROVAL. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CONTROL DRAWINGS FROM UNIT MANUFACTURERS FOR PROPER WIRING AND OPERATION TO COMPLY WITH CONTROL SEQUENCE.

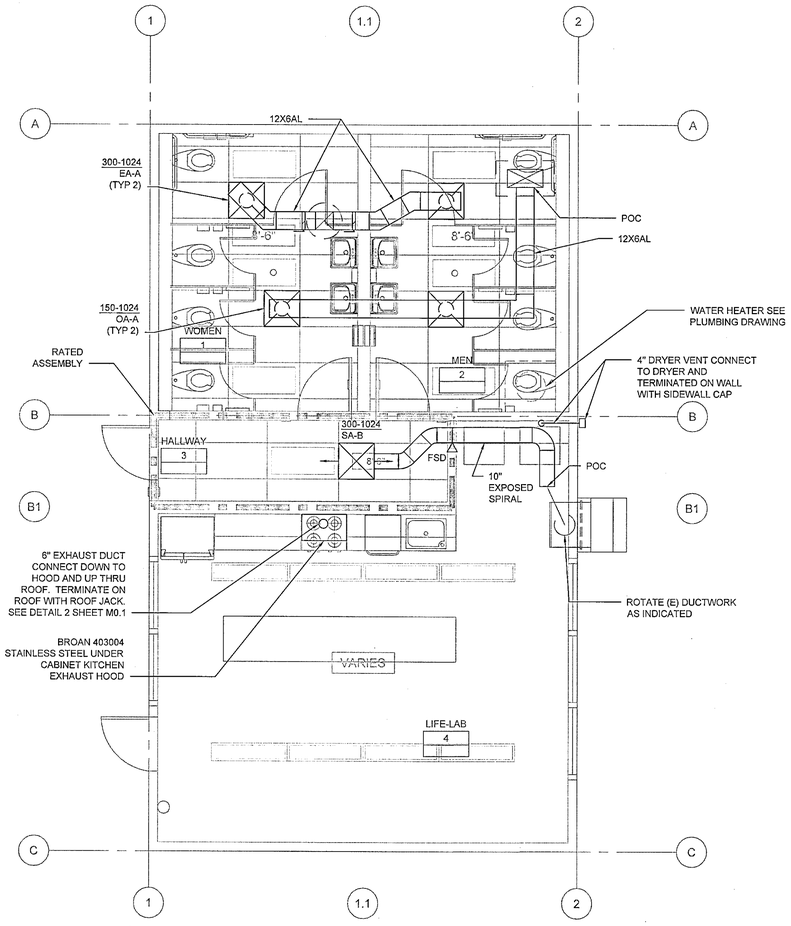
ELECTRICAL LEGEND

1) ALL WIRING TO CONFORM TO GOVERNING CODES.
2) - - - - INDICATES WIRING BY ELECTRICAL CONTRACTOR.
3) ——— INDICATES CONDUIT BY ELECTRICAL CONTRACTOR. FINAL CONNECTION BY A/C CONTRACTOR ONLY.
4) (E) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5) (M) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY A/C CONTRACTOR, WIRING BY ELECTRICAL CONTRACTOR. FINAL LOW VOLTAGE CONNECTION BY A/C CONTRACTOR.
6) ALL LINE VOLTAGE CONDUIT & WIRING BY ELECTRICAL CONTRACTOR.
7) FINAL CONNECTION TO ALL HVAC EQUIPMENT TO BE MADE WITH FLEXIBLE CONDUIT.
8) FINAL CONNECTION TO ALL HVAC EQUIPMENT TO BE MADE WITH COPPER WIRING.

03	FAN CONTROL WIRING DIAGRAM	1/4"=1'-0"



01	MECHANICAL FLOOR PLAN - DEMO	1/4"=1'-0"



02	MECHANICAL FLOOR PLAN	1/4"=1'-0"

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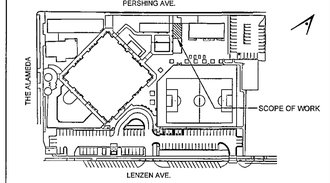
REGISTERED PROFESSIONAL ENGINEER — GARY L. HEMMINGER — No. M20245 — MECHANICAL — STATE OF CALIFORNIA

Legend

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB

1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

MECHANICAL DEMO & FLOOR PLAN, SCHEDULE & DETAIL

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC ___ PLS ___ SS ___ KF
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT — WILLIAM E. GOLLA — No. C-23819 — REN. 8-30-19 — STATE OF CALIFORNIA

File Number	Drawing No
Application Number	M2.1
Project No. 06307	
Date 07/20/17	

Based on 2016 CPC

FIXTURE CALCULATION SHEET

Quantity	Fixture Description	Symbol	Hot water Units*	Hot water Total	Cold water Units*	Cold water Total	Waste Units	Waste Total
8	Water Closet (FV)	WC			5	40	4	32
4	Lavatories	L	0.75	3	1	4	1	4
1	Clothes washer	WM	3	3	4	4	3	3
1	Sink, Kitchen	KS	1.125	1.125	1.5	1.5	2	2
2	Drinking Fountain	DF			0.5	1	0.5	1
1	Dishwasher, Domestic	DW	1.125	1.125	1.5	1.5	3	3
2	Floor drain, 2"	FD					4	8
			Total	8.25	Total	52	Total	53
			GPM	7	GPM	52	Size 2%	4"
			Size	3/4"	Size	1 1/2"	Size 1%	4"

ELECTRIC WATER HEATER SCHEDULE

ITEM	MANUFACTURER	MODEL NO.	SERVICE	STORAGE (GAL.)	VOLT	PHASE	KW	TEMP RISE	INLET TEMP (°F)	OUTLET TEMP (°F)	OPERATING WEIGHT (LBS)
EWH-1	CHRONOMITE	E-90L / 240 - LLP	DOMESTIC WATER	0	240	1	9	61°F @1 GPM	60	105	8
EWH-2	RHEEM	RTEX27	DOMESTIC WATER	0	240	1	27	55°F @3.0 GPM	60	105	17.8

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. 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 COVERING 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.
31. FOR BACKFILLING AND TRENCHING SEE SPECIFICATION 22 00 00 SECTION 3.18

PLUMBING FIXTURE SCHEDULE

FIXTURE	MARK	ROUGH IN CONNECTIONS HW	CW	WASTE	VENT	DESCRIPTION
WATER CLOSET	WC-1	--	1"	4"	2"	KOHLER K-4325 KINGSTON WALL MOUNTED, VITREOUS CHINA, ELONGATED BOWL, SIPHON JET,1 1/2" TOP SPUD, SEAT COVER: KOHLER K-4731-C STRONGHOLD OPEN FRONT LESS COVER ELONGATED,SOLID POLYPROPYLENE PLASTIC. FLUSH VALVE: KOHLER K-13517 EXPOSED FLUSHOMETER 1.28 GPF, BRASS CONSTRUCTION, 1 1/2" SPUD COUPLING, NON-HOLD OPEN PISTON. TOILET SEAT: OPEN FRONT BEMIS OR EQUAL. CARRIER: SEE SECTION 22 00 00.
LAVATORY (ADA)	L-1	1/2"	1/2"	2"	2"	KOHLER K-2007-R KINGSTON 21 1/4" X 18 1/8", VITREOUS CHINA, SINGLE HOLE WITH OVERFLOW AND OPTIONAL SOAP DISPENSER HOLE ON RIGHT SIDE. FAUCET: CHICAGO MODEL MVP807-E2805-665PSHCP SIGNAL SELF-CLOSING METERING VALVE, BRASS CONSTRUCTION 4 1/8" SPOUT AND PUSH BUTTON. ANGLE/STOPS/P-TRAP/PIPE WRAP: SEE SECTION 22 00 00.
FLOOR DRAIN	FD-1	-	-	2"	2"	JAY R SMITH 2005Y 6"Ø FLOOR DRAIN, TYPE "B" NICKEL BRONZE STRAINER WITH ADJUSTABLE STRAINER HEADS, VANDAL PROOF SCREWS.
WASHING MACHINE BOX	WM-1	1/2"	1/2"	2"	2"	OATEY 38747 CENTER DRAIN WASHING MACHINE OUTLET BOX, HIGH IMPACT POLYETYRENE, 1/4" TURN BRASS HAMMER BALL, COPPER SWEAT, 6" STAINLESS HOSE.
SINK	S-1	--	1/2"	2"	2"	ELKAY DRKAD3119-4 30" X 22" 4 HOLE, #18 GAUGE, TYPE 304 NICKEL BEARING STAINLESS STEEL, FAUCET:CHICAGO FAUCET 786-E35ABCP CHROME PLATED SOLID BRASS CONSTRUCTION, 5-1/4" CENTER TO CENTER RIGID/SWING GOOSENECK SPOUT, 4" METAL WRISTBLADE HANDLES, 1.5 GPM PRESSURE COMPENSATING SOFTFLO AERATOR. BUBBLER: ELKAY LK1141A PUSH BUTTON, SELF CLOSING, ADJUSTABLE VOLUME CONTROL. ANGLE STOPS/P-TRAP/PIPE WRAP: SEE SECTION 22 00 00
TRAP PRIMER	TP-1	--	1/2"	--	--	PRECISION PLUMBING PRODUCTS PR-500 TRAP PRIMER, CORROSION RESISTANT BRASS, PISTON OPERATED. PRIME FOR TWO DRAINS WITH DU-U CONNECTION

NOTES:
1. ITEM DESCRIPTIONS INCLUDED IN THIS SCHEDULE ARE INTENDED TO DESCRIBE GENERAL FIXTURE CONFIGURATIONS, AND DO NOT INCLUDE ALL REQUIREMENTS. REFER TO SPECIFICATION SECTION 22 00 00 FOR ADDITIONAL REQUIREMENTS.

SHEET INDEX

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	W	SANITARY WASTE/SEWER PIPING
GW	GW	GREASE WASTE PIPING
SD	SD	STORM DRAIN PIPING
OFD	OFD	OVERFLOW DRAIN PIPING
	V	WASTE/SANITARY VENT PIPING
GV	GV	GREASE VENT PIPING
		DEMO PIPING
	(E)W	EXISTING SANITARY SEWER PIPING
	(E)V	EXISTING SANITARY VENT PIPING
	CW	DOMESTIC COLD WATER PIPING
	HW	DOMESTIC HOT WATER PIPING
	HWR	DOMESTIC HOT WATER RETURN PIPING
	(E)CW	EXISTING COLD WATER PIPING
	(E)HW	EXISTING HOT WATER PIPING
	(E)HWR	EXISTING HOT WATER RETURN PIPING
G	G	NATURAL GAS PIPING
MPG	MPG	MEDIUM PRESSURE NATURAL GAS PIPING
G	(E)G	EXISTING NATURAL GAS PIPING
MPG	(E)MPG	EXISTING MEDIUM PRESSURE NATURAL GAS PIPING
CD	CD	CONDENSATE DRAIN PIPING
C		PIPE GOING DOWN
O		PIPE GOING UP
		TEE
FCO	FCO	FLOOR CLEANOUT/CLEANOUT TO GRADE
		P-TRAP
POC	POC	POINT OF CONNECTION
WCO	WCO	WALL CLEANOUT
		PIPE CAP
HB	HB	HOSE BIBB
SOV	SOV	SHUT-OFF VALVE
SOVAP	SOVAP	SHUT-OFF VALVE IN ACCESS PANEL
SOVYB	SOVYB	SHUT-OFF VALVE IN YARD BOX
		PLUG VALVE
		GAS COCK VALVE
		CHECK VALVE
FD	FD	FLOOR DRAIN
FS	FS	FLOOR SINK
XX-X		EQUIPMENT OR FIXTURE
	CONT.	CONTINUED/CONTINUATION
	DFM	DISTANCE FROM METER
	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, 2011

2016 CA BUILDING CODE TITLE 24 PART 2 VOLUME #1 AND #2
2016 CA ELECTRICAL CODE TITLE 24 PART 3
2016 CA MECHANICAL CODE TITLE 24 PART 4
2016 CA PLUMBING CODE TITLE 24 PART 5
2016 CA FIRE CODE TITLE 24 PART 9
2016 CA BUILDING STANDARDS TITLE 24 PART 9

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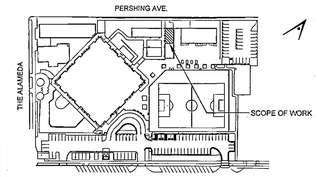
Legend

Key Plan



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Drawing Title

PLUMBING
GENERAL NOTES
LEGEND & SCHEDULE

Regulatory Agency Approval

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AC ___ FLS ___ SS KF
DATE OCT 25 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOFFNEY
No. C-13919
REN. 9-30-17
STATE OF CALIFORNIA

File Number

Application Number

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06307

Date
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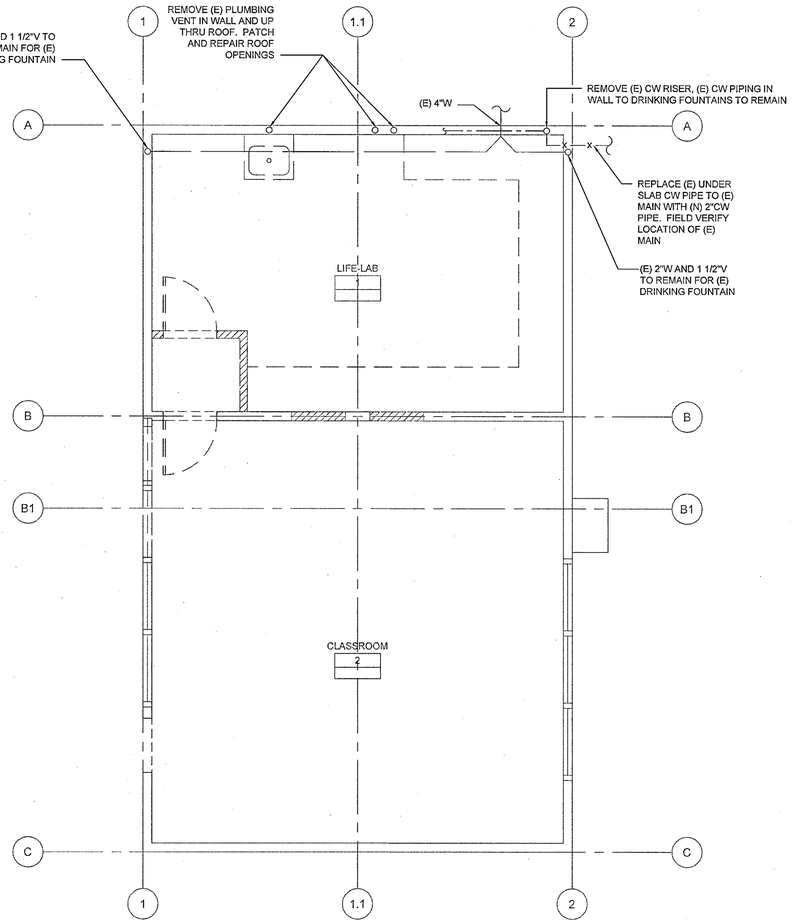
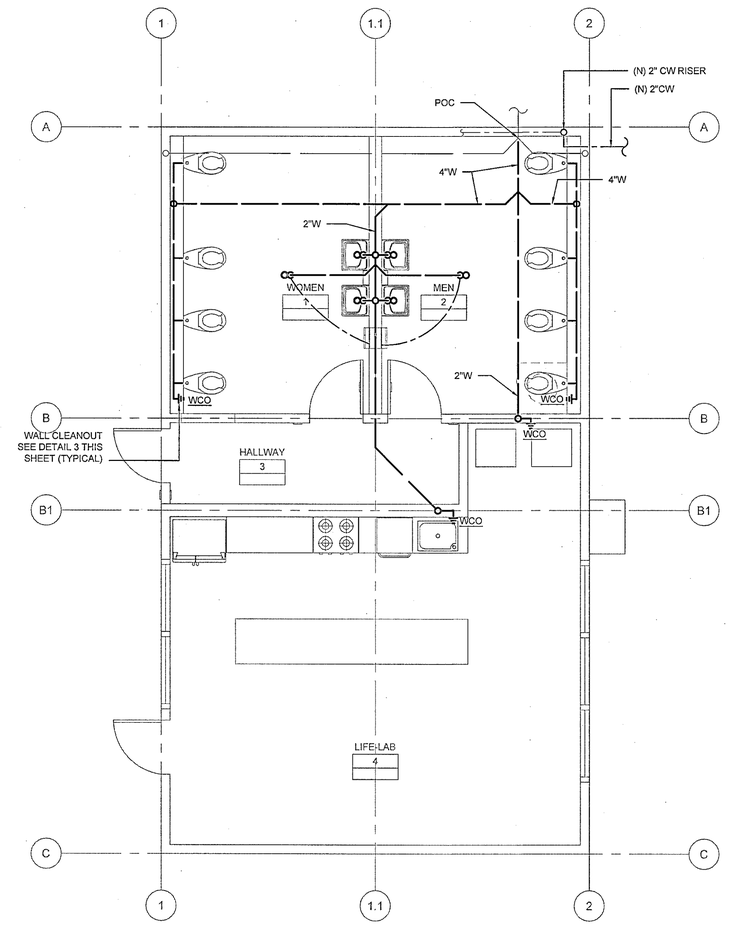
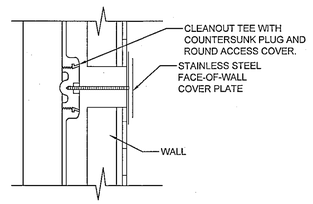


01	PLUMBING UNDER SLAB PLAN - DEMO	1/4"=1'-0"



02	PLUMBING UNDER SLAB PLAN	1/4"=1'-0"



03	WALL CLEAN OUT DETAIL	N.T.S

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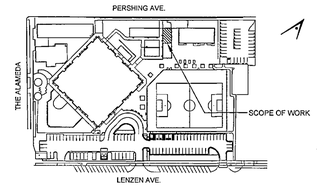
510-569-2000

GARY L. HENNIGS — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — STATE OF CALIFORNIA

Legend

Key Plan



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PLUMBING UNDERSLAB DEMO AND FLOOR PLAN

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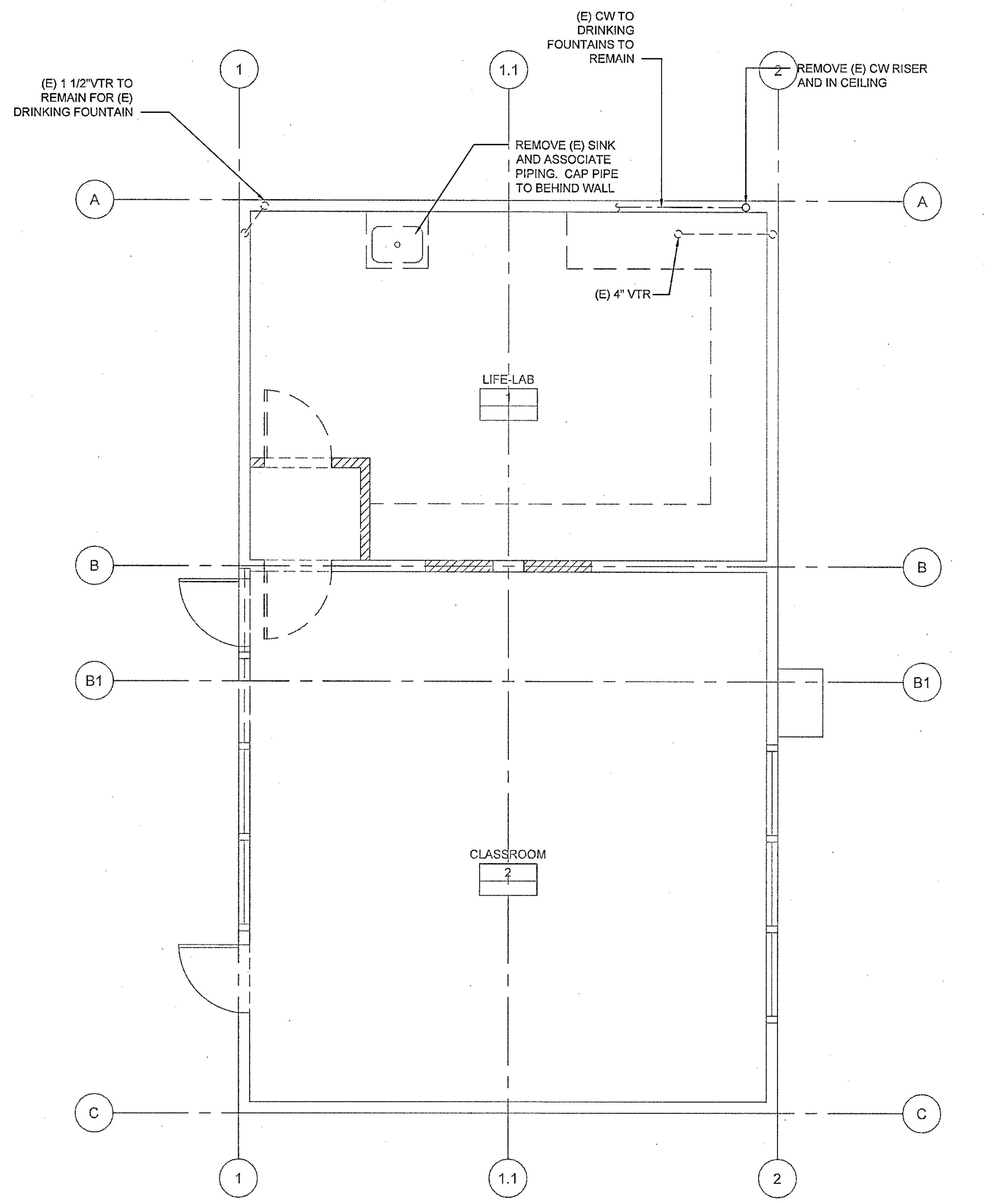
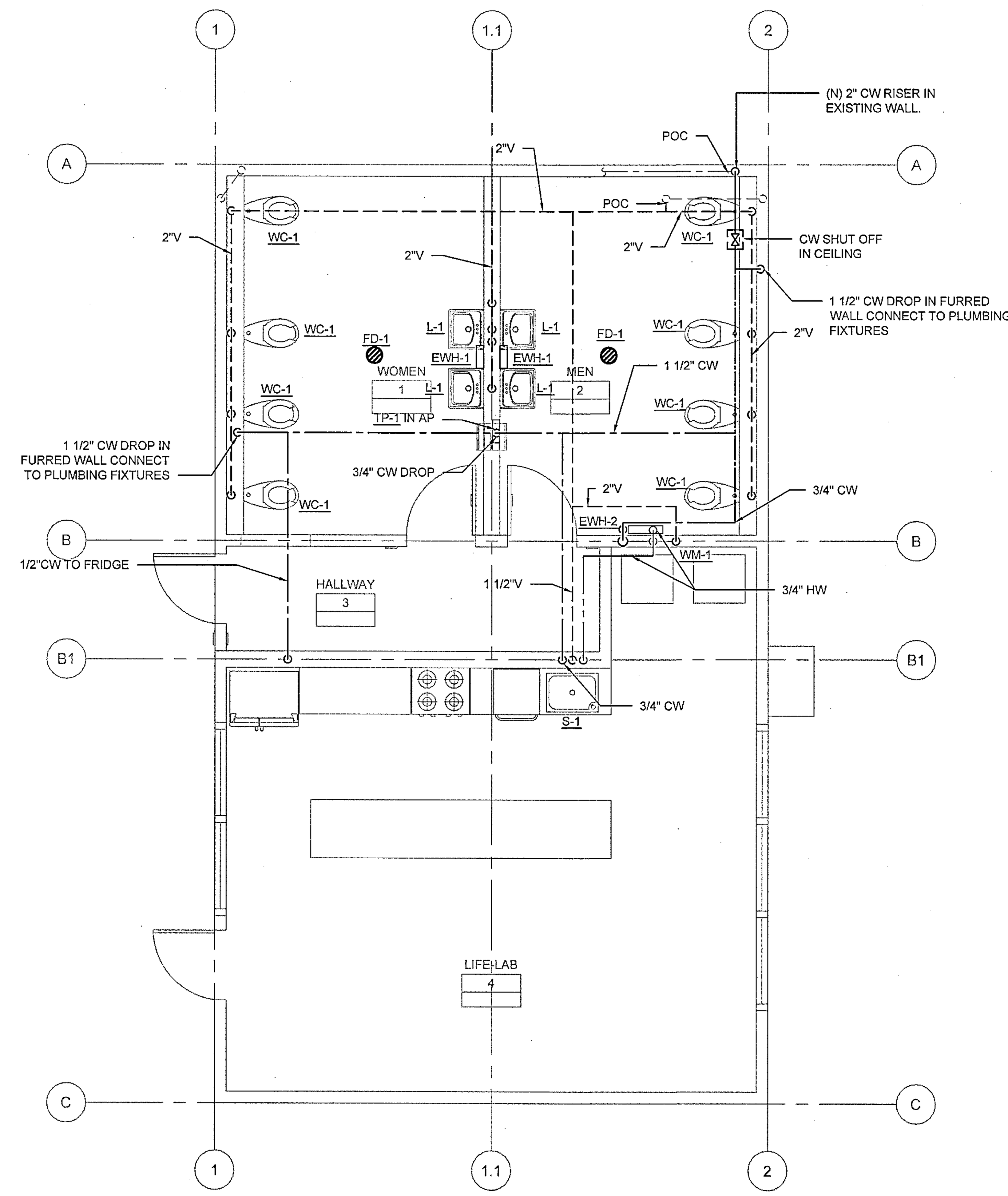
GENERAL NOTES

1 WATER PIPING AND VENT INDICATED IS ROUTED IN CEILING SPACE UNLESS OTHERWISE NOTED.



01	PLUMBING FLOOR PLAN - DEMO	1/4"=1'-0"



02	PLUMBING FLOOR PLAN	1/4"=1'-0"

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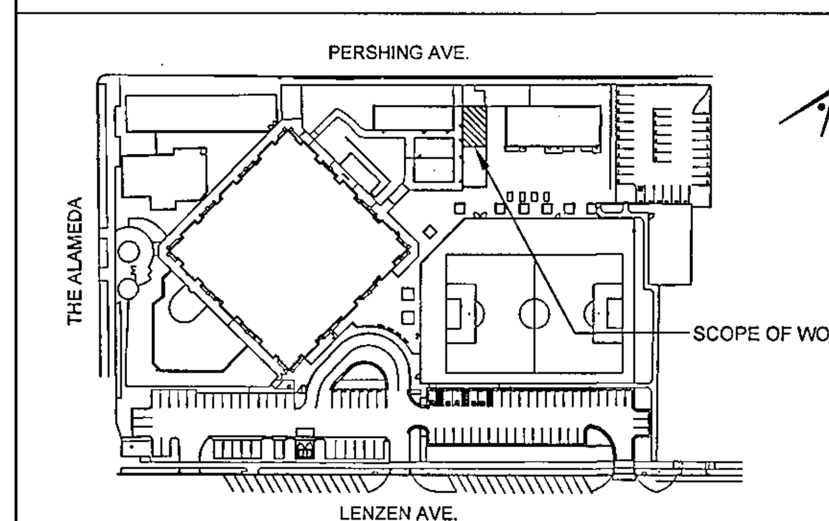

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Architect Seal

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Drawing No

P2.2

GENERAL NOTES

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
3. THIS CONTRACTOR SHALL INCLUDE ALL CONTINGENCIES WHICH MAY ARISE AND WHICH MAY BE REQUIRED BY ALTERATION AND DEMOLITION WORK. THIS IS TO INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF ELECTRICAL OUTLETS, CONDUITS, WIRING AND ITEMS FOR ELECTRICAL EQUIPMENT RECQUIRED AND ANY NECESSARY SPLICING OR EXTENSION OF EXISTING CONDUIT AND WIRING SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND DETERMINE EXTENT OF THE WORK.
4. FIELD VERIFY TO CONFIRM ALL FIRE RESISTIVE CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RESISTIVE FLOORS, WALLS AND CEILINGS.
5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.
6. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
7. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.
8. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED BY HIM. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL ALL COSTS RELATED TO THE DISPOSAL OF EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT.
9. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT CONSTRUCTION COORDINATOR. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.
10. ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED IN FINISHED AREA, UNLESS OTHERWISE NOTED. CUT AND PATCH (E) WALL OR CEILING AS REQUIRED. SURFACE TYPE RACEWAY MAY BE PROVIDE IN LIEU OF CONCEALED CONDUITS. SEE NOTES 34, 35 AND 36 FOR REQUIREMENTS.
11. ALL PENETRATIONS THROUGH FIRE RESISTIVE WALLS SHALL BE TOTALLY SEALED TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GASES, AND WATER THROUGH THE PENETRATION BEFORE, DURING AND AFTER A FIRE CONDITION. THE FIRE RATING OF THE SEALED PENETRATION SHALL BE AT LEAST THAT OF THE WALL INTO WHICH IT IS INSTALLED. THE SEAL SHALL PERMIT THE VIBRATION, EXPANSION AND/OR CONTRACTION OF THE CONDUIT PASSING THROUGH THE PENETRATION WITHOUT THE SEAL CRACKING OR CRUMBLING.
12. PROVIDE FLEXIBLE CONDUIT AT BUILDING SEISMIC JOINTS.
13. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONLY.
14. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".
15. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.
16. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.
17. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.
18. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CBC REQUIREMENTS.
19. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR OWNER AND IOR.
20. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.
21. WHERE CONDUIT IS ROUTED ON ROOF STRUCTURES, PROVIDE SUPPORT AT 10'-0" O.C. MAXIMUM.
22. ALL EXPOSED CONDUIT BELOW 7'-0" SHALL BE RSC AND ALL EXPOSED HARDWARE SHALL BE "HOT DIPPED" GALVANIZED. ALL INTERIOR CONDUITS MAY BE EMT, UNLESS OTHERWISE NOTED.
23. WHERE SURFACE WIRING IS CALLED FOR IN A FINISHED AREA, SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED COMPLETE WITH ALL PROPER FITTINGS, ADAPTERS, OUTLETS, DEVICES COVERS, END CAPS, ETC. AS MANUFACTURED BY PANDUIT OR AN APPROVED EQUAL AND SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING. ALL EXPOSED CONDUITS, BOXES AND CABINETS SHALL ALSO BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.
24. SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES TO BUILDING LINES AND ROUTE AROUND SURFACE MOUNTED ITEMS, SUCH AS TACK BOARDS, ETC.
25. ALL WIRES SHALL BE IN CONDUIT U.O.N.
26. GENERALLY, HORIZONTAL RUNS SHALL BE INSTALLED ON THE CORNER BELOW CEILING LINE AS APPROVED BY THE ENGINEER.

GENERAL NOTES (CONTINUATION)

27. ALL UNDERGROUND CONDUIT SHALL HAVE #12 TRACER WIRE WITH THWN INSULATION UNDER EACH RUN OF THE UNDERGROUND CONDUIT DUCTBAMK AND 6" FOIL MARKER IN TRENCH. TRACE WIRE SHALL EXTEND AT TERMINATION POINTS A MIN. OF 3 FT FROM SUCH SURFACE AND SHALL BE TRAPPED SECURED TO CONDUIT OR ACCEPTABLE EQUIVALENT.
28. UPON COMPLETION OF CONSTRUCTION, PAINT ALL EXPOSED ELECTRICAL CONDUITS, DEVICES AND BOXES (UNLESS DEVICES OR BOXES ARE ALREADY PRE-FINISHED) PER SPECIFICATION SECTION 09900, PARAGRAPH 2.3 PAINTING SCHEDULE. PAINT COLOR SHALL MATCH THE EXISTING SURFACES.
29. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.
30. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST IN THE PRESENCE OF DSA IOR TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED TEST RESULTS SHALL BE SENT TO DISTRICT FOR IOR AND AOR. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.

LEGEND

- HOMERUN TO PANEL, HASHMARKS INDICATE NUMBER OF #12 AWG WIRES IF MORE THAN (3); (1) INDICATES GROUND.
- CONDUIT AND CONDUCTORS CONCEALS IN WALL OR CEILING
- CONDUIT AND WIRES CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION, CAP AND MARK LOCATION
- CONDUIT RISER
- SURFACE MOUNTED ELECTRICAL PANELBOARD, 277/480V
- SURFACE MOUNTED ELECTRICAL PANELBOARD, 120/208V
- RECESSED MOUNTED ELECTRICAL PANELBOARD, 120/208V
- HASHMARK INDICATES EXISTING ELECTRICAL ITEM TO BE DISCONNECTED AND REMOVED INCLUDING WIRES AND CONDUIT UP TO THE NEXT JUNCTION BOX WHICH IS TO REMAIN.
- 1x4 LIGHT FIXTURE
- WM — (E) WIREMOLD PROVIDED BY PORTABLE MANUFACTURER
- DUPLEX RECEPTACLE NEMA 5-20R, 20 AMP, 120V, +18" A.F.F U.O.N.
- FOURPLEX RECEPTACLE NEMA 5-20R, 20 AMP, 120V, +18" A.F.F U.O.N.
- CEILING MOUNTED DUPPLEX RECEPTACLE, NEMA 5-20R, 20 AMP, 120V
- SINGLE RECEPTACLE, 40A/250V (TWISTLOCK)
- S — SPEAKER
- 2-PORT DATA OUTLET IN (E) SURFACE RACEWAY
- AP — 2-PORT DATA WIRELESS ACCESS POINT (CEILING MOUNTED)
- SECURITY MOTION SENSOR
- EXIT LIGHT FIXTURE
- EXIT LIGHT WITH EMERGENCY TWIN HEAD LIGHTING
- PP — nPP16 SENSOR SWITCH nLIGHT DIGITAL POWER PACK WITH INTEGRAL 16A RELAY, 120/277 VAC, CHASE NIPPLE MOUNT. PROVIDE UP TO 40mA BUS CURRENT PER PORT.
- OS — nCM PDT 9 SENSORSWITCH nLIGHT CEILING MOUNT LOW VOLTAGE STANDARD RANGE / HIGH SENSITIVITY 360° DUAL TECHNOLOGY (DIGITAL PIR + MICROPHONICS) OCCUPANCY SENSOR.
- $T — HORSEPOWER RATED MANUAL SWITCH, SQUARE "D" CLASS 2510
- J — JUNCTION BOX OR PULL BOX, SIZE PER CODE.
- (1) — SHEET NOTE REFERENCE, SEE NOTE 1
- (1/E3.1) — DETAIL TAG. REFER TO DETAIL 1 ON SHEET NUMBER E3.1

LIST OF APPLICABLE CODES

1. 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2. 2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)
3. 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
8. 2016 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
9. NFPA 13, 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
10. NFPA 14, 2016 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
11. NFPA 24, 2016 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
12. NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED
13. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

MEP COMPONENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTES:

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

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

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS.
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

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

MP☐MD☐PP☐E☒
OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#); (I.E. OPM# 0043-13 MASON INDUSTRIES INC., AND OPM# 0203-13 M.W. SAUSSE & CO. INC.) ← AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS FOR ACI 318, CHAPTER 17.

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

DRAWING INDEX

ABBREVIATIONS

A	AMPERE	O.C.	ON CENTER
AMP	AMPERE		
AFF	ABOVE FINISHED FLOOR		
AP	ACCESS POINT	PA	PUBLIC ADDRESS
		PH, ø	PHASE
BRKR	BREAKER	PNL	PANEL
C	CONDUIT, CLOCK	(R)	RELOCATED
CATV	CABLE TELEVISION	RECEPT.	RECEPTACLE
CBC	CALIFORNIA BUILDING CODE		
CCTV	CLOSED CIRCUIT TELEVISION		
CEC	CALIFORNIA ELECTRIC CODE	SAD	SEE ARCHITECTURAL DRAWINGS
CKT	CIRCUIT		
CO	CONDUIT ONLY WITH PULL ROPE		
CPS	CURRICULUM AND PRESENTATION SYSTEM	STC	SATELLITE TERMINAL CABINET
CSC	CLOCK/SPEAKER CABINET	TRANSF.	TRANSFORMER
(E)	EXISTING	TB	TELEPHONE BOARD
		TC	TERMINAL CAN
FU	FUSE	TYP	TYPICAL
G	GROUND, GUARD	UON	UNLESS OTHERWISE NOTED
IDF	INTERMEDIATE DISTRIBUTION FRAME	V	VOLT
MAX	MAXIMUM	W	WATT
MDF	MAIN DISTRIBUTION FRAME	WG	WIRE GUARD
MIN	MINIMUM	WP	WEATHERPROOF
MPOE	MAIN POINT OF ENTRY	XFMR	TRANSFORMER
MSTC	MAIN SIGNAL TELEPHONE CABINET		
MTB	MAIN TELEPHONE BOARD		
NEC	NATIONAL ELECTRICAL CODE		
NL	NIGHT LIGHT		
NTS	NOT TO SCALE		

ARTiK
ART & ARCHITECTURE
394-A Umbarger Rd
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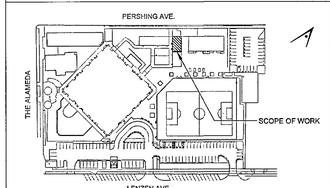
Phone 408.224.9890
Fax 408.224.9891
www.ArtikA3.com

Consultant Seal

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10, Santa Clara, CA 95054
phone (408) 970-9888 fax (408) 970-9316
PROJECT NO. 175-17-05
www.cec-engineers.com

REGISTERED PROFESSIONAL ENGINEER — KENNETH S. WONG — No. 11537 — Exp. 6/30/19 — ELECT. — STATE OF CALIFORNIA

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB
1480 THE ALAMEDA
SAN JOSE, CA 95126
SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

ELECTRICAL COVER SHEET

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC ☐ FLS ☐ SS
DATE OCT 25 2017

Architect Seal

LICENSED ARCHITECT — WILLIAM F. GOKEY — No. C-23919 — REN. 9-30-19 — STATE OF CALIFORNIA

File Number

Application Number

Project No. 06317

Date 07/20/17

Drawing No E0.1

FILE: M:\175-17-05\Hester ES\DSE01.dwg Jun 21, 2017 3:20 pm Scale: 1=1 by: CHRIS
XREFS: 36X24DDR.dwg

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

A. General Information						
Climate Zone: 3	Conditioned Floor Area: 458					
	Unconditioned Floor Area: 0					
Building Type:	☐	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel
☐ Schools	☐	Relocatable Public Schools	☒	Conditioned Spaces	☐	Unconditioned Spaces
Phase of Construction:	☐	New Construction	☐	Addition	☒	Alteration
Method of Compliance:	☐	Complete Building	☒	Area Category	☐	Tailored
Project Address: 1480 THE ALAMEDA						

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
☒	☐	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
☐	☐	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
☒	☐	NRCC-LTI-03-E	Indoor Lighting Power Allowance
☐	☒	NRCC-LTI-04-E	Tailored Method Worksheets
☐	☒	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
☐	☐	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	Installed Lighting NRCC-LTI-01-E, Table H, page 5	+	200	Installed Lighting NRCC-LTI-01-E, Table H, page 5	+	0
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0
04	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	200	Adjusted Installed Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)			Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)		
05	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1. Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		275	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1. Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		0

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

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

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

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

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector[2]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How wattage was determined: CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 x H05)	Primary Function area in which these luminaires are installed	Pass	Fail
A,A1	40W LED LIGHT	40.0	☒	☐	5	200	Corridor/Restroom/Support	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
					INSTALLED WATTS PAGE TOTAL:	200	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: DOAN TRANG HOANG	Documentation Author Signature: (signed)
Company: Alliance Engineering Consultants, Inc	Signature Date: 7/19/2017
Address: 4701 PATRICK HENRY DRIVE, BLDG 10	CEA Certification Identification (If applicable):
City/State/Zip: SANTA CLARA, CA 95054	Phone: 408-970-9888

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name: KENNETH S. NGAI	Responsible Designer Signature: (signed)
Company: ALLIANCE ENGINEERING CONSULTANTS, INC.	Date Signed: 7/19/2017
Address: 4701 PATRICK HENRY DRIVE, BLDG 10	License: E11537
City/State/Zip: SANTA CLARA, CA 95054	Phone: 408-970-9888

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
☐	☒	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
☐	☒	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☒	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☒	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
☒	☐	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
☐	☒	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
☐	☐	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
☐	☒	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
☒	☐	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
☐	☒	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
☐	☒	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
☒	☐	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☒ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)	Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ if Acceptance Test Required	Field Inspector Pass	Fail
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
RESTROOMS	Occupancy Sensor	2	☐	☐	☒	☐	☐	☐	☐				✓	☐	☐
HALLWAY	Occupancy Sensor	1	☐	☐	☒	☐	☐	☐	☐				✓	☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐
			☐	☐	☐	☐	☐	☐	☐					☐	☐

Columns 04–10: Standards Complying With[1] (✓ all that apply, or enter 'E' if Exempted). Columns 11–13: PAF Credit Calculation[2].

Control Credit PAGE TOTAL (Sum of Column 13): 0
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13): 0
Enter Control Credit total into NRCC-LTI-01-E; Page 1.

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(a) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: DOAN TRANG HOANG	Documentation Author Signature: (signed)
Company: Alliance Engineering Consultants, Inc	Signature Date: 7/19/2017
Address: 4701 PATRICK HENRY DRIVE, BLDG 10	CEA Certification Identification (If applicable):
City/State/Zip: SANTA CLARA, CA 95054	Phone: 408-970-9888

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name: KENNETH S. NGAI	Responsible Designer Signature: (signed)
Company: ALLIANCE ENGINEERING CONSULTANTS, INC.	Date Signed: 7/19/2017
Address: 4701 PATRICK HENRY DRIVE, BLDG 10	License: E11537
City/State/Zip: SANTA CLARA, CA 95054	Phone: 408-970-9888

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

A separate page must be filed out for Conditioned and Unconditioned Spaces. This page is only for:
☒ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

- ☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
- ☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		275
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		275

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
	Total Area:				
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES	Watts
Total from section C-2.	275
Total from section C-3.	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	275
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

A separate page must be filed out for Conditioned and Unconditioned Spaces. This page is only for:
☒ CONDITIONED spaces ☐ UNCONDITIONED spaces

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- ☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- ☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01 AREA CATEGORY (From §140.6 Table 140.6-C): Location in Building	Primary Function Area per Table 140.6-C	02 WATTS PER ft²	X	03 AREA (ft²)	=	04 ALLOWED WATTS
RESTROOMS, HALLWAY, CLOSET	Corridor/Restroom/Support	0.60		458		275
		TOTALS		458		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						275 WATTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: HESTER SCHOOL	Date Prepared: 7/19/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: DOAN TRANG HOANG	Documentation Author Signature: (signed)
Company: Alliance Engineering Consultants, Inc	Signature Date: 7/19/2017
Address: 4701 PATRICK HENRY DRIVE, BLDG 10	CEA Certification Identification (If applicable):
City/State/Zip: SANTA CLARA, CA 95054	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name: KENNETH S. NGAI	Responsible Designer Signature: (signed)
Company: ALLIANCE ENGINEERING CONSULTANTS, INC.	Date Signed: 7/19/2017
Address: 4701 PATRICK HENRY DRIVE, BLDG 10	License: E11537
City/State/Zip: SANTA CLARA, CA 95054	Phone: 408-970-9888

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

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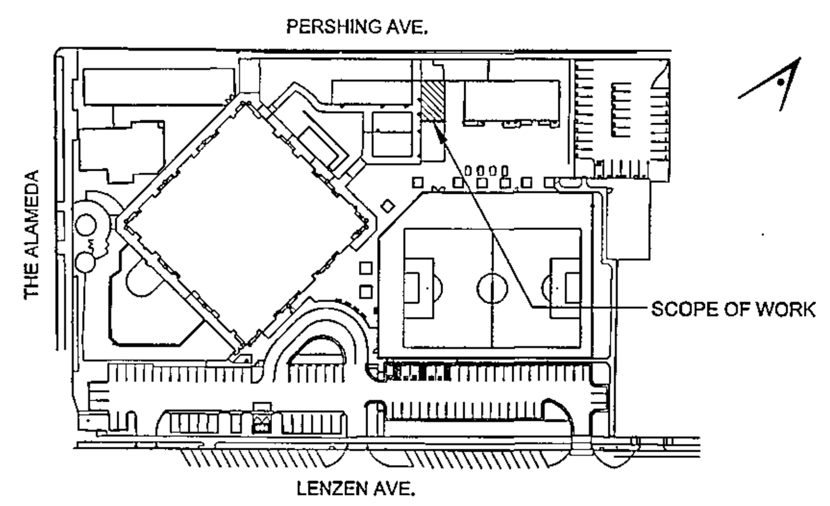
phone (408) 970-9888 fax (408) 970-9316
PROJECT NO. 175-17-05
www.aec-engineers.com

REGISTERED PROFESSIONAL ENGINEER — KENNETH S. NGAI — No. 11537 — Exp. 6/30/19 — ELECT. — STATE OF CALIFORNIA

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB

1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

CERTIFICATE OF COMPLIANCE TITLE 24

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC ____ FLS ____ SS ____
DATE OCT 0 5 2017

Architect Seal

LICENSED ARCHITECT — WILLIAM E. GOULD — No. C-23919 — REN. 9-30-19 — STATE OF CALIFORNIA

File Number

Application Number

Project No. 06317

Date 07/20/17

Drawing No

E0.2

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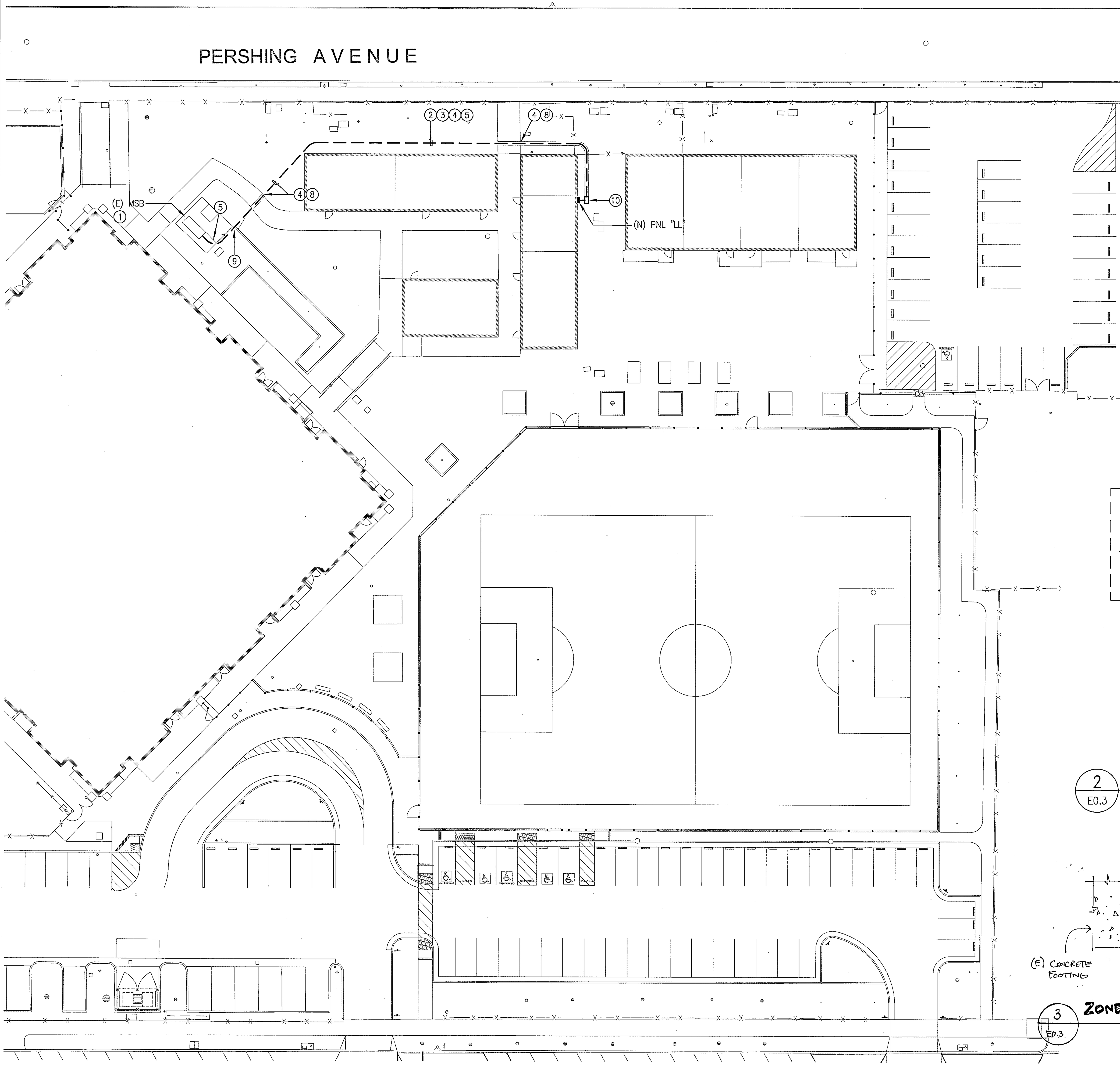
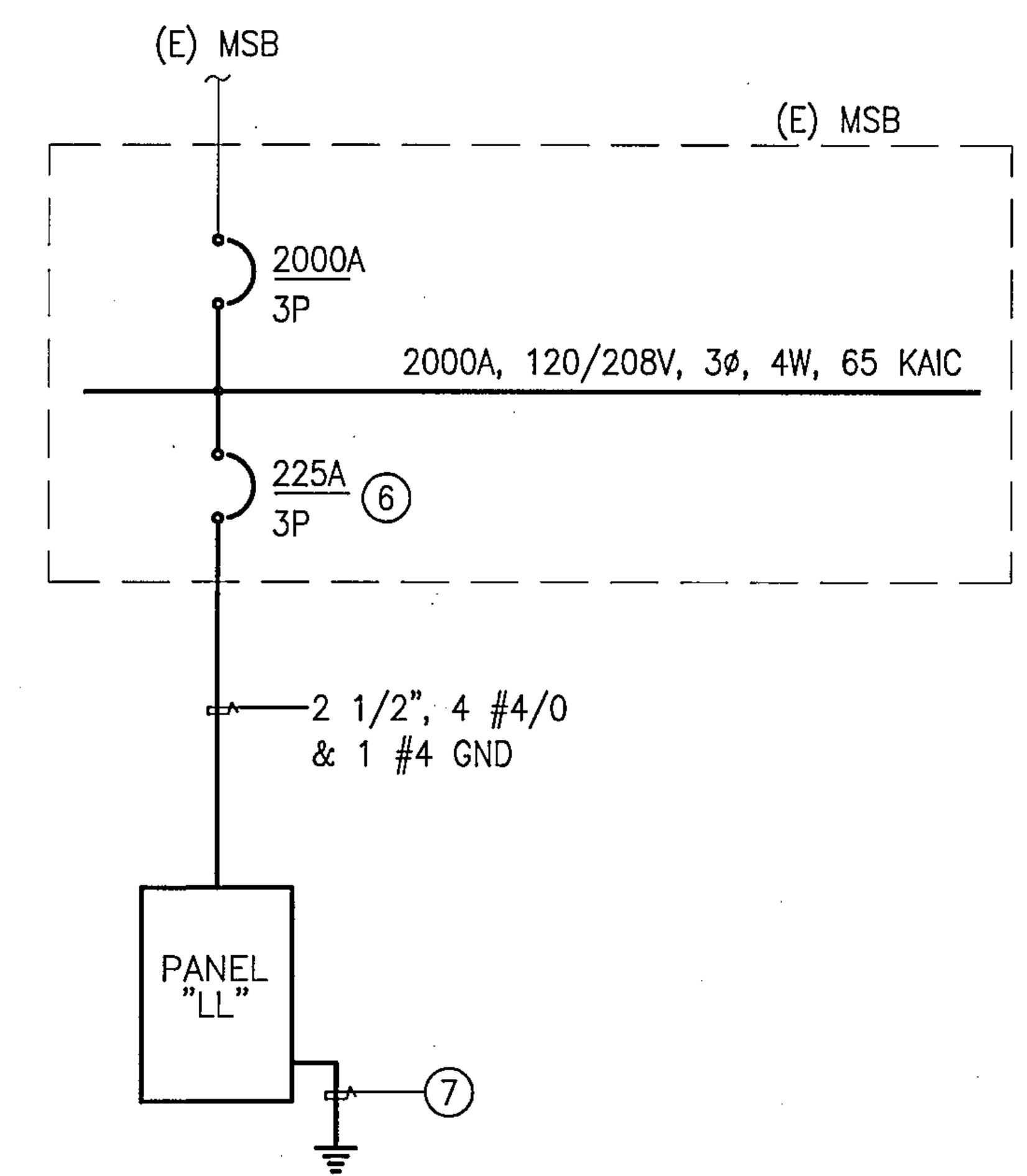


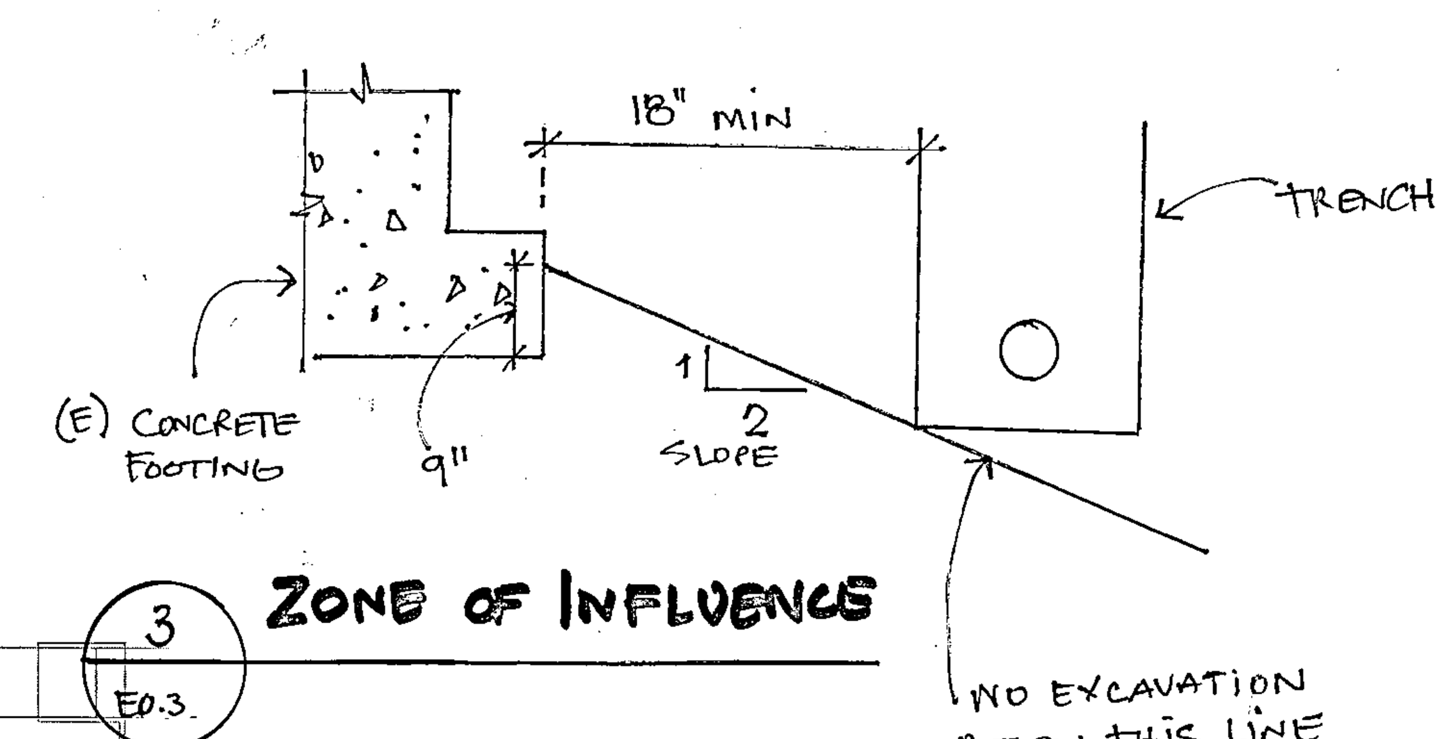
1 ELECTRICAL SITE PLAN
E0.3
SCALE: 1"=20'-0"

SHEET NOTES:

1. SEE SINGLE LINE DIAGRAM FOR WORK REQUIRED.
2. 2 1/2"C (POWER)
3. SEE SINGLE LINE DIAGRAM FOR WIRE SIZE.
4. TRENCH, BACKFILL, COMPACT AND PATCH TO MATCH (E) CONDITION.
5. PROVIDE CONDUIT ELBOW WITH GASKET.
6. INSTALL (N) CIRCUIT BREAKER, SIZE AS SHOWN IN (E) SPACE. (N) CIRCUIT BREAKER TYPE AND INTERRUPTING RATING SHALL MATCH (E).
7. SEE DWG. 5/E2.0 FOR GROUND ROD INSTALLATION DETAIL.
8. SAWCUT (E) CONCRETE/ASPHALT PAVING.
9. SAWCUT (E) CURVE.
10. CHRISTY BOX CAT #B1324 WITH 12" EXTENSION AND BOLT DOWN STEEL CHECKER PLATE COVER SHALL BE ENGRAVED "ELECTRIC".



2 PARTIAL SINGLE LINE DIAGARM
E0.3



3 ZONE OF INFLUENCE
E0.3

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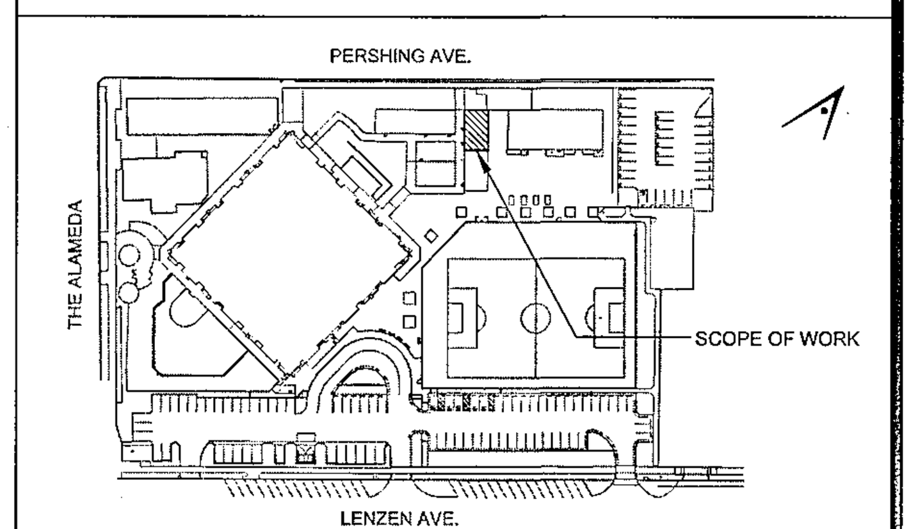
PROJECT NO. 175-17-05

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. NGAI
No. 11537
Exp. 6/30/19
ELECT.
STATE OF CALIFORNIA

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB
1480 THE ALAMEDA
SAN JOSE, CA 95126
SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

ELECTRICAL SITE PLAN AND PARTIAL SINGLE LINE DIAGRAM

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC FLS SS KF
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-19
STATE OF CALIFORNIA

File Number

Application Number

Project No. 06317

Date 07/20/17

Drawing No

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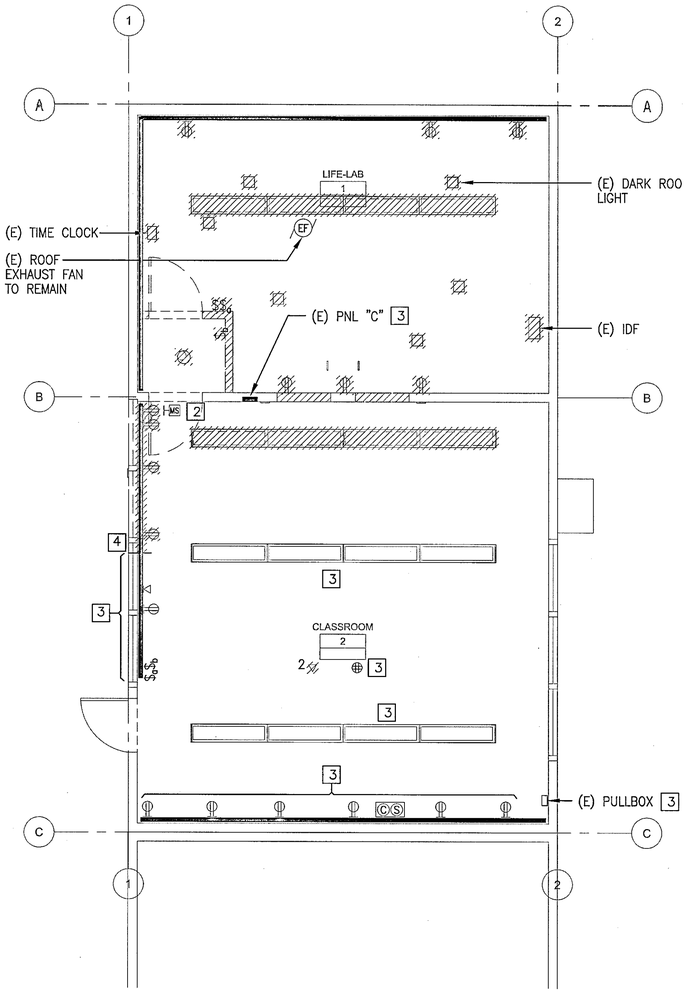
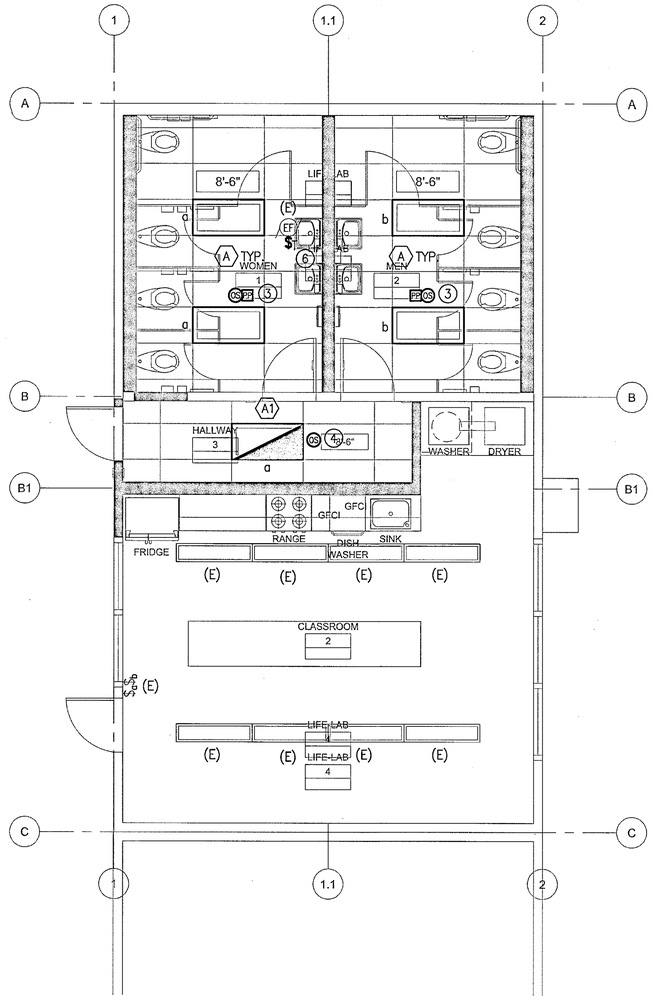


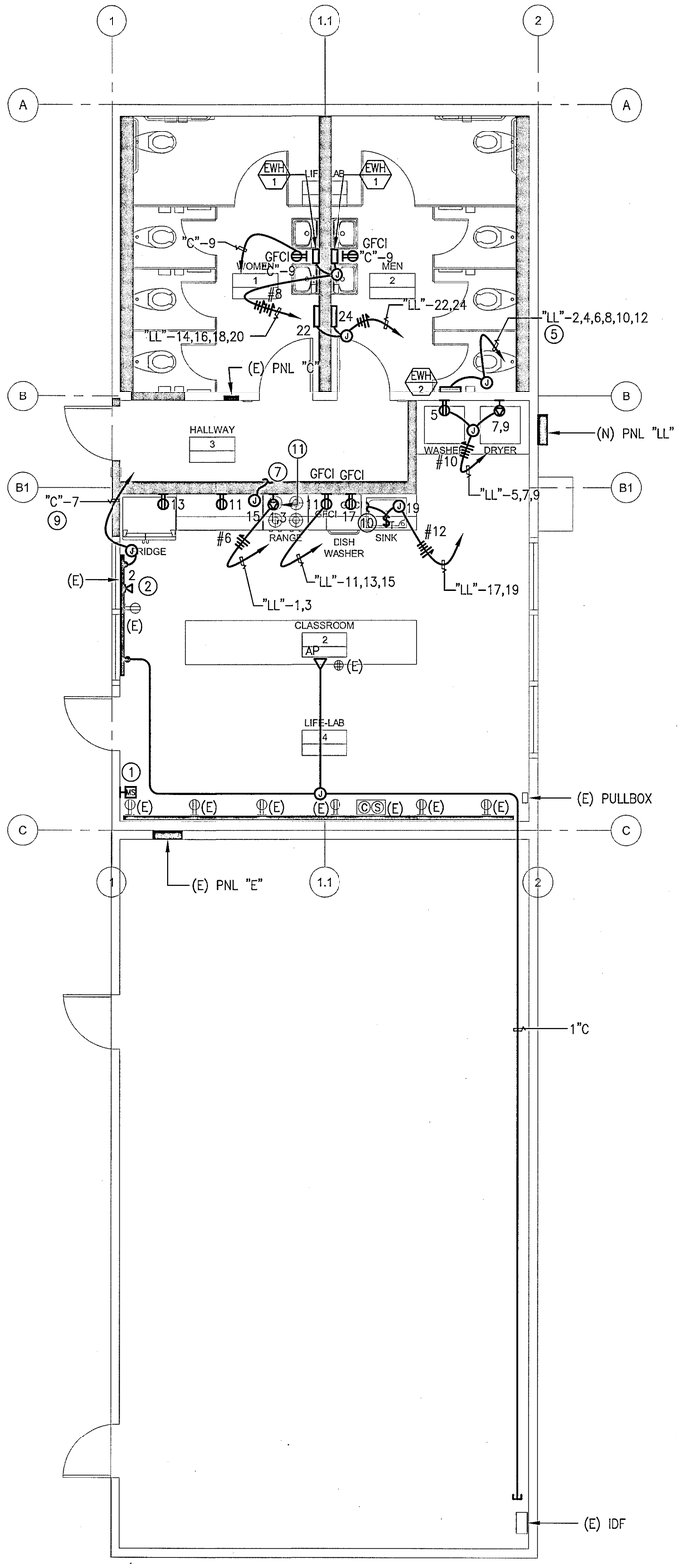
1 E1.0 **DEMOLITION PLAN** [1]

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



2 E1.0 **LIGHTING PLAN**

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



3 E1.0 **ELECTRICAL PLAN**

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

DEMOLITION NOTES:

[1] ALL ELECTRICAL ITEMS INCLUDING WIRES AND CONDUIT SHOWN ON THIS DRAWING SHALL BE DISCONNECTED AND REMOVED UP TO SOURCE OR THE NEXT JUNCTION BOX, UON.

[2] RELOCATE (E) ELECTRICAL ITEM TO (N) LOCATION.

[3] (E) ELECTRICAL ITEM TO REMAIN, MAINTAIN CIRCUIT CONTINUITY.

[4] CUT (E) SURFACE RACEWAY, PROVIDE END CAP.

SHEET NOTES:

(1) RELOCATED MOTION SENSOR (SECURITY) AS INDICATED BE DEMOLITION NOTE [2]. FIELD VERIFY AND TERMINATE TO WHERE ORIGINALLY CONNECTED, REPLACE CABLES.

(2) REPLACE 2 DATA OUTLET IN (E) SURFACE RACEWAY.

(3) FOR ADDITIONAL WORK REQUIRED, SEE LIGHTING CONTROL WIRING DIAGRAM ON DWG. 2/E2.0

(4) FOR ADDITIONAL WORK REQUIRED, SEE LIGHTING CONTROL WIRING DIAGRAM ON DWG. 1/E2.0

(5) HOMERUN 1 1/4"C, 6 #8 AND 3 #10 (G) TO (N) PANEL "LL".

(6) REWIRE (E) EXHAUST FAN SO THAT IT WILL BE CONTROLLED BY OCCUPANCY SENSORS. (E) EXHAUST FAN AND LIGHTING SHALL BE ON EITHER ROOM IS OCCUPIED OR BOTH ARE OCCUPIED.

(7) MAKE FINAL CONNECTION TO HOOD.

(8) RECONNECT ALL (E) ELECTRICAL CIRCUIT AS REQUIRED.

(9) FIELD VERIFY AND PROVIDE ADDITIONAL WIRES AS REQUIRED FOR THE (E) RECEPTACLE OUTLETS IN (E) RACEWAYS AND CEILING.

(10) MAKE FINAL CONNECTION TO FOOD WASTE DISPOSAL.

(11) SINGLE RECEPTACLE (10-50R). COORDINATE WITH THE PROVIDED MALE PLUG AND PROVIDE COMPATIBLE OUTLET.

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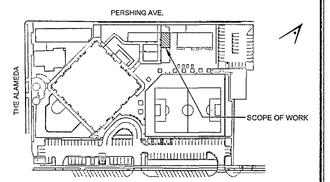
Key Plan



Project Title

HESTER SCHOOL
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1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

DEMOLITION PLAN, LIGHTING AND ELECTRICAL PLAN

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC. FLS SS.
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. COULTER
No. C-22910
REN. 9-30-19
STATE OF CALIFORNIA

File Number

Application Number

Project No.
06317

Date
07/20/17

Drawing No
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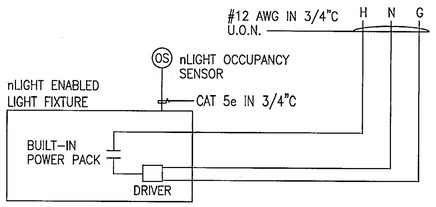
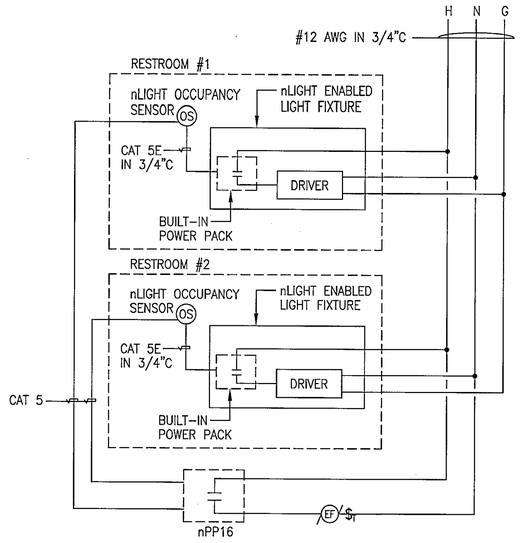


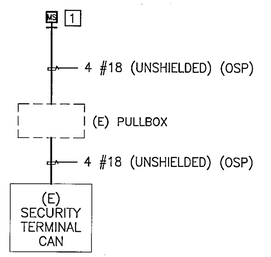
1 E2.0 HALLWAY LIGHTING FIXTURE WIRING DIAGRAM

NOT TO SCALE



2 E2.0 RESTROOM LIGHTING FIXTURE WIRING DIAGRAM WITH EXHAUST FAN

NOT TO SCALE



4 E2.0 INTRUSION ALARM SECURITY SYSTEM RISER DIAGRAM

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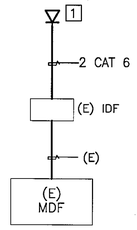
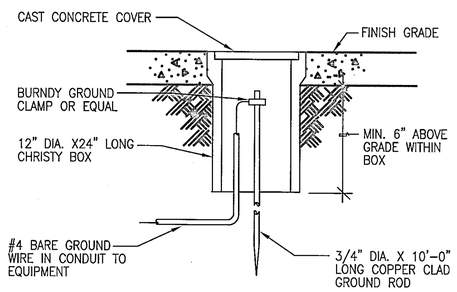


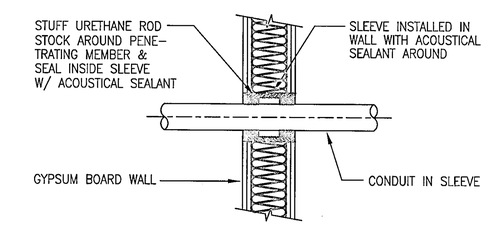
3 E2.0 DATA SYSTEM RISER DIAGRAM

NOT TO SCALE



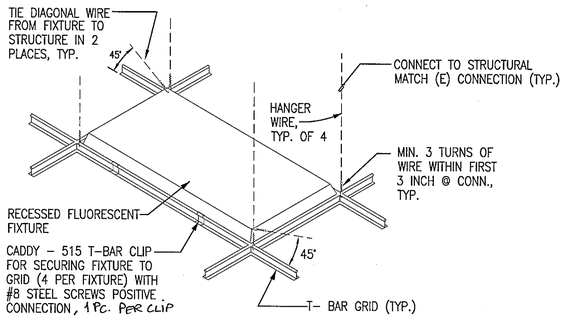
5 E2.0 GROUND ROD INSTALLATION DETAIL

NOT TO SCALE



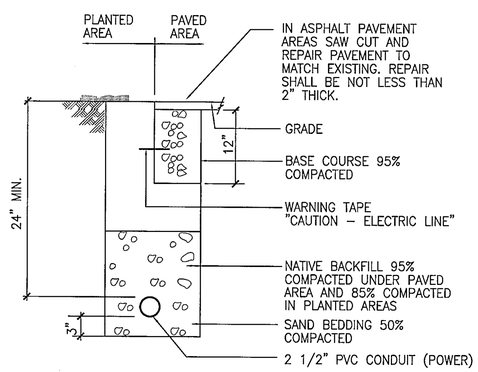
7 E2.0 TYPICAL WALL PENETRATION

NOT TO SCALE



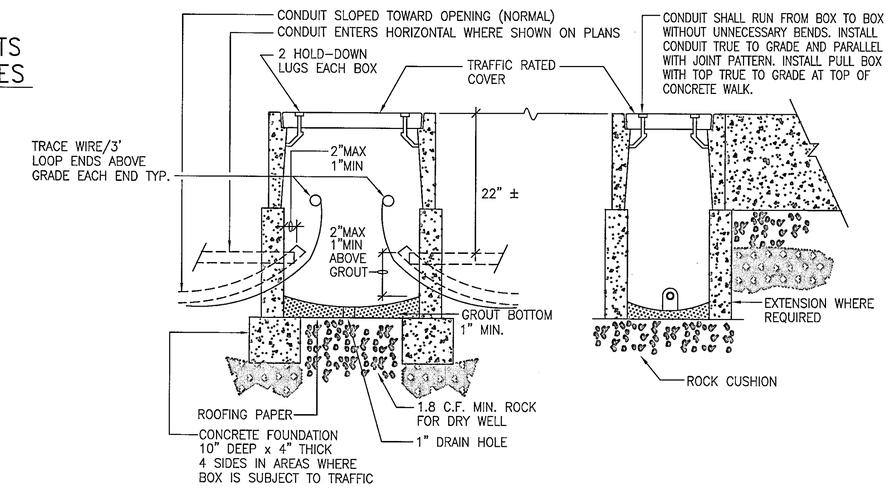
6 E2.0 TYPICAL SUPPORT REQUIREMENTS FOR RECESSED LIGHT FIXTURES

NOT TO SCALE



8 E2.0 TRENCH DETAIL (PRIMARY CONDUIT)

NOT TO SCALE



9 E2.0 CONCRETE PULLBOX INSTALLATION

NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURERS MODEL NO.	LAMPS QTY.	LAMPS TYPE	TOTAL WATTS	VOLTS	MOUNTING	DESCRIPTION AND REMARKS
A	LITHONIA CAT #TL4 40L LFW-A12LP835-N80	–	LED	40	MULTI	RECESSED	2'x4' LED LIGHT FIXTURE WITH A HIGH PERFORMANCE OPTICAL SYSTEM
A1	LITHONIA CAT #TL4 40L LFW-A12LP835-N80 EL14L						SAME AS TYPE "A" LIGHT FIXTURE EXCEPT WITH EMERGENCY BATTERY PACK
X	LITHONIA CAT #LED SW16-120-ELNSD	–	LED	10.2	120	UNIVERSE	LED EXIT LIGHT FIXTURE WITH GREEN LETTERS ON WHITE BACKGROUND

(E)PANEL # C	LOCATION -			FEEDER SIZE -		
VOLTS 120/240V, 1PH, 3W	MLO [X]	FEED THRU LUGS [ ]		FLUSH [ ]	SURFACE [X]	
AMPS	MCB	MCB AMPS -		NEMA 1 [X]	NEMA 3R [ ]	
AIC RATING 10K	BUS AMPS 100					

DESCRIPTION	VA A	VA B	BKR/ POLE	CKT No.		BKR/ POLE	VA A	VA B	DESCRIPTION
LIGHTING			20/1	1	2	20/1			LIGHTING
LIGHTING				3	4				
FURNACE				5	6				
WIREMOLD				7	8				FIRE ALARM
RECEPTACLE	360			9	10				RECEPT
				11	12				RECEPT
SUBTOTAL	360								SUBTOTAL

TOTAL LOAD 0.36 KVA; @ 240 VOLTS = 1.5 AMPS

(N) PANEL # "LL"	LOCATION				FEEDER SIZE SEE SINGLE LINE DIAGRAM				
VOLTS 120/208V,3PH,4W	MLO [ ]	FEED THRU LUGS [ ]			FLUSH [ ]	SURFACE X			
AMPS 225	MCB [X]	MCB AMPS			NEMA 1 [ ]	NEMA 3R [X]			
AIC RATING 10K	BUS AMPS 225								

DESCRIPTION	LOAD (VA) A	B	C	BKR/ POLE	CKT No.		BKR/ POLE	LOAD (VA) A	B	C	DESCRIPTION
RANGE	6750			50/2	1	2	40/2	4000			INSTANT WATER HEATER (EWH-2)
		6750			3	4			4000		
WASHER			500	20/1	5	6	40/2			4000	
DRYER	2392			30/2	7	8		4000			
		2392			9	10	40/2		4000		
RECEPTACLE			360	20/1	11	12				4000	
FRIDGE	1000			20/1	13	14	40/2	4500			INSTANT WATER HEATER (EWH-1)
HOOD		200			15	16			4500		
DISHWASHER			1000		17	18	40/2			4500	
FOOD WASTE DISPOSAL	400				19	20		4500			
SPARE					21	22	20/1		1400		HAND DRYER
					23	24				1400	
SPACE				-	25	26	-				SPACE
				-	27	28	-				
				-	29	30	-				
SUBTOTAL	10542	9342	1860					17000	13900	13900	SUBTOTAL

TOTAL ADDED LOAD 66.54 KVA; @ 208 VOLTS = 184.8 AMPS

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Phone 408.224.9890
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Consultant Seal

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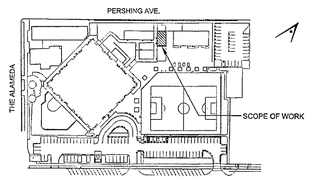
4701 Patrick Henry Drive, Bldg. 10 Santa Clara, CA 95054
phone (408) 970-9888 fax (408) 970-9316
PROJECT NO. 175-17-05
www.aec-engineers.com

REGISTERED PROFESSIONAL ENGINEER KENNETH S. INGAI No. 11537 Exp. 6/30/19 ELECT. STATE OF CALIFORNIA

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB

1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

SCHEDULE AND DETAILS

Regulatory Agency Approval

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
01-116879
AC FLS SS KE
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT WILLIAM F. FORD No. C-23919 REN. 9-30-19 STATE OF CALIFORNIA

File Number

Application Number

Project No. 06317

Date 07/20/17

Drawing No E2.0

FILE: M:\175-17-05(Hester ES)\05E20.dwg Jun 22, 2017 10:29 am Scale: 1=1 by: CHRIS
XREFS: 36X24BDR.dwg

GENERAL NOTES

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
3. FIELD VERIFY TO CONFIRM ALL FIRE RATED CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS.
4. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.
5. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
6. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.
7. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED BY HIM. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL ALL COSTS RELATED TO THE DISPOSAL OF EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT.
8. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT PROJECT MANAGER. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.
9. DEMOLITION WORK SHALL BE PROVIDED AS REQUIRED TO ACCOMPLISHED NEW WORK CALLED FOR AND AS NOTED. WORK SHALL BE PERFORMED CAREFULLY TO AVOID DAMAGE TO SURFACES, STRUCTURES, AND EQUIPMENT NOT BEING REMOVED. EXISTING EQUIPMENT AND/OR ELECTRICAL WIRING WHICH IS TO REMAIN, BUT HAS BEEN REMOVED TO FACILITATE THE INSTALLATION OF THE NEW EQUIPMENT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION.
10. BLANK COVERS SHALL BE INSTALLED WHEREVER DEVICE IS REMOVED AND OUTLET BOX REMAINS IN PLACE.
11. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONL.Y.
12. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".
13. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.
14. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.
15. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.
16. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A SEISMIC FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:
    a. THE TOTAL DESIGN LATERAL SEISMIC FORCE SHALL BE DETERMINED PER CALIFORNIA BUILDING CODE (CBC) 2013. FORCES SHALL BE APPLIED IN THE HORIZONTAL DIRECTIONS, WHICH RESULT IN THE MOST CRITICAL LOADING FOR DESIGN.
    b. THE VALUE OF A_P (COMPONENT AMPLIFICATION FACTOR), R_P (COMPONENT RESPONSE MODIFICATION FACTOR), C_0 (SEISMIC COEFFICIENT) AND I_P (SEISMIC IMPORTANCE FACTOR) BE DETERMINED PER CALIFORNIA BUILDING CODE (CBC) 2013.

    WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
17. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. THE DRAWINGS SHOWING LOCATION OF EQUIPMENT IN EXISTING AREAS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONCEAL ALL WORK; IF THIS NOT POSSIBLE, SURFACE RACEWAY SUCH AS WIREMOLD SHALL BE USED ONLY WITH THE APPROVAL OF THE ARCHITECT AND OWNER.
18. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.
19. OUTLETS MOUNTED ON WALL BACK TO BACK SHALL MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 24" OR BE SEPARATED BY A STUD.
20. ALL EXPOSED CONDUITS, BOXES AND CABINETS INSTALLED IN FINISHED AREAS SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.
21. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.
22. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.
23. PROVIDE ACCESSIBLE PANEL FOR HEAT DETECTOR ABOVE CEILING WHERE REQUIRED.

FIRE ALARM L E G E N D

WIRING

SYMBOL	DESCRIPTION
	WIRING CONCEALED IN CEILING OR WALL. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	WIRING EXPOSED. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE
	EXISTING ITEM TO BE REMOVED
LV	LOW VOLTAGE CABLE IN CONDUIT
	STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS IF MORE THAN 3, UON. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING. ALL SHARED NEUTRAL SHALL BE #10 U.O.N.
	GROUND — GROUND, ISOLATED
	HOT — NEUTRAL
L1A–1,3 HD1A	HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
	RACEWAY STUBBED OUT FOR FUTURE CONTINUATION; CAP, MARK AND RECORD LOCATION.
J J J	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
	WIRING EXTENSION POINT – CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILINGS AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED= ON ALT. POWER SOURCE (EMERG,UPS,ETC.)
PB	PULL BOX, MIN. SIZE PER NEC., UON.
	FLEXIBLE CONDUIT CONNECTION
	POWER CONNECTION TO DIV 15 FIRE/SMOKE DAMPER. REFER TO FSD CONNECTION DETAIL IF NOT SHOWN
	LOW VOLTAGE SYSTEM GROUND CONNECTION
	GROUND ROD CONNECTION
	GROUND ROD CONNECTION WITH TEST WELL BOX
	LIGHTNING SYSTEM AIR TERMINAL

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V POWER AS REQUIRED OR AS INDICATED.
ANN	ANNUNCIATOR
SD	SMOKE DETECTOR
HD A	ABOVE CELING HEAT DETECTOR
P	FIRE ALARM SYSTEM MANUAL PULL STATION,
	STROBE
F	HORN/STROBE
F WP	HORN – WEATHERPROOF

APPLICABLE CODES

1. 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2. 2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)
3. 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
8. 2016 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
9. NFPA 13, 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
10. NFPA 14, 2016 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
11. NFPA 24, 2016 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
12. NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED
13. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

FIRE ALARM SCOPE OF WORK

THE INTENT OF THIS PROJECT IS TO PROVIDE A COMPLETE FIRE ALARM SYSTEM FOR THE RESTROOM AND LIFE LAB ALTERATION

FIRE ALARM SYSTEM GENERAL NOTE

THE FIRE DETECTION AND ALARM SYSTEM, UPON ACTIVATION OF AN INITIATING DEVICE, SHALL ALERT ALL OCCUPANTS AND SHALL TRANSMIT THE ALARM SIGNAL TO AN APPROVED SUPERVISING CENTRAL MONITORING STATION.

ABBREVIATIONS

(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE REMOVED
(RL)	EXISTING TO BE RELOCATED
AB	ABOVE COUNTER BACKSPLASH
ACU	AIR CONDITIONING UNIT
AC	ALTERNATING CURRENT
A, AMP	AMPERES
AF	AMPERE (RATED) FUSE OR CB FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM (ALLOY)
ALC	AUTOMATIC LIGHTING CONTROL
AS	AMPERE (RATED) SWITCH
AT	CIRCUIT BRKR TRIP SETTING (AMPS)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
B	BELL (FIRE ALARM)
BAT	BATTERY
BG	BELOW GRADE
C	CONDUIT (CIRCULAR RACEWAY)
CAB	CABINET
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CU	COPPER
DC	DIRECT CURRENT
DIV	DIVISION
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
ENCL	ENCLOSURE
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FSD	FIRE/SMOKE DAMPER
GND	GROUND
K	KEY OPERATED
MAX	MAXIMUM
MIN	MINIMUM
MTD	MOUNTED
MTR	MOTOR
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NP	NAMEPLATE
OC	ON CENTER
PNL	PANEL
+,POS	POSITIVE
REQD	REQUIRED
RNC	RIGID NON-METALLIC CONDUIT (PVC)
RSE	REMOTE SIGNAL EXPANDER
RST	REMOTE STATION TRANSMITTER
S.A.D.	SEE ARCHITECTURAL DRAWINGS
TYP	TYPICAL
UL	UNDERWRITERS LAB
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY

FIRE ALARM SYSTEM INFORMATION

Fire alarm system drawings shall reflect the following minimum information on the cover sheet:

Name of School: HESTER SCHOOL
Campus Address: 1480 THE ALAMEDA, SAN JOSE, CA 95126
Building Designation(s): RESTROOMS AND LIFE LAB

Applicable Codes and Standards:
2016 California Building Code (CBC), Part 2, Title 24, C.C.R. (2015 IBC with 2016 California Amendments)
2016 California Electric Code (CEC), Part 3, Title 24, C.C.R. (2014 NEC with 2016 California Amendments)
2016 California Fire Code (CFC), Part 9, Title 24, C.C.R. (2015 IFC with 2016 California Amendments)
CCR, Title 19, Public Safety, State Fire Marshal Regulations
NFPA 72, National Fire Alarm and Signaling Code, 2016 edition (CA Amended)
UL 38, Manual Signaling Signal Boxes, 2008 edition
UL 268A, Smoke Detectors Duct Applications, 2006 edition
UL 464, Audible Signal Appliances, 2016 edition
UL 521, Heat Detectors for Fire Protective Signaling Systems, 1999 edition
UL 864, Control Units for Fire Protective Signaling Systems, 2014 edition

System Designer (Company and Designer Name): AEC/ HENRY BORINO
System Installer (Specific Name):
Building Occupancy Classification(s): ☒ Group E (Educational K-12) ☐ Group A (Assembly) ☐ Group B (Office/Educational – Community College)
Building Construction Type(s): ☐ Type IA ☐ Type IB ☐ Type IIA ☐ Type IIB ☐ Type IIIA ☐ Type IIIB ☐ Type IV ☐ Type VA ☐ Type VB
System Type: ☐ Manual ☐ Automatic ☒ Manual and Automatic
System Classification: ☐ Protected Premises ☒ Central Station ☐ Remote Station
Emergency Communication System:
☐ One-way Emergency Communication System ☐ In-building Mass Notification System ☐ Distributed Recipient Mass Notification System ☐ In-building Fire Emergency Voice Communication System ☐ Wide Area Mass Notification System
☐ Two-way Emergency Communication System ☐ In-building Emergency Communication System
Power Supplies: ☐ Commercial Light & Power ☐ Emergency Generator
Secondary Power Supplies: ☐ Battery ☐ Emergency Generator ☐ Uninterruptible Power Supply
Pathways/Circuits (Class):
NAC's ☐ Class A ☒ Class B ☐ Class C ☐ Class D ☐ Class E ☐ Class X
SLC's ☐ Class A ☒ Class B ☐ Class C ☐ Class D ☐ Class E ☐ Class X
NAC's ☐ Class A ☒ Class B ☐ Class C ☐ Class D ☐ Class E ☐ Class X
Pathway Survivability: ☒ Level 0 ☐ Level 1 ☐ Level 2 ☐ Level 3

FIRE ALARM DRAWING LIST

FIRE ALARM SYSTEM NOTES

1. ALL WIRING SHALL BE IN CONDUIT, U.O.N. MINIMUM CONDUIT SIZE SHALL BE 3/4"C.
2. PROVIDE AND INSTALL ALL CONDUIT, BOXES, CONDUCTORS, POWER SUPPLY, RELAYS, ZONE MODULES, CARDS, SWITCHES ETC. FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
3. ALL REQUIREMENT OF CONTRACT SPECIFICATIONS AND DRAWING APPLY.
4. INSTALLATION SHALL CONFORM TO REQUIREMENTS OF APPLICABLE ELECTRICAL CODES.
5. TEE-TAP INSIDE BUILDING IN JUNCTION BOX. USE TERMINAL BLOCKS.
6. FIRE ALARM FIELD WIRING SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
7. 120VAC 60Hz INPUT POWER FOR FIRE ALARM CONTROLS SHALL BE A DEDICATED, LOCKING BREAKER PROPERLY LABELED "SOURCE FROM LINE OF MAIN DISCONNECT" OR "EMERGENCY POWER".
8. ALL WIRING INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
9. 120VAC IS NOT PERMITTED IN SAME CONDUIT WITH LOW VOLTAGE WIRING.
10. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY-TRAINED FIRE ALARM TECHNICAL REPRESENTATIVE.
11. THERE WILL BE NO CONDUIT ENTRY ALLOWED 18" OR LOWER ON THE SIDE PANELS OR THROUGH THE BOTTOM OF ALL CONTROL EQUIPMENT BACKBOXES.
12. ALL VISUAL ALARM IN EVERY ROOMS OR EXTERIOR WHERE OCCUR SHALL BE SYNCHRONIZED.
13. VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE THAT MEETS NFPA STROBE INTENSITY REQUIREMENTS WHICH VARIES WITH VIEWING CONDITIONS AND ROOM SIZES.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT FITTINGS AND WIRES TO BE APPROVED FOR WET LOCATIONS.
15. AUDIBLE DEVICE(S) TO BE AT LEAST 15dBA ABOVE THE EQUIVALENT SOUND LEVEL BUT NOT LESS THAN 75dBA AT 10' OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE.
16. AUDIBLE DEVICE SHALL SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL.
17. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATA AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
18. FIRE ALARM CONTRACTOR SHALL PROVIDED A COMPLETED AND SIGNED" CERTIFICATE OF COMPLETION" AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (NFPA 72 SEC. 7.8.2 & 14.6.1).
19. PROVIDE TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND (CFC SEC. 907.5.2.1.3 NFPA 72 SEC. 18.4.2.1)
20. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH RED MARKING AND IDENTIFIED PER NFPA SEC 10.6.5.2.2 .
21. WIRING AND MATERIALS SHALL BE PER CEC/NEC ART. 760.
22. A DOCUMENTATION CABINET SHALL BE INSTALLED PROXIMAL TO THE FACU. (NFPA 72, 7.7.2.1)
23. ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENT CABINET. (NFPA 72, 7.7.2.2)
24. THE DOCUMENT CABINET SHALL BE PROMINENTLY LABELED SYSTEM RECORD DOCUMENT (NFPA 72, 7.7.2.4.)

NFPA 72 REQUIREMENTS

1. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTFIED PER (NFPA 72 SEC. 10.6.5.2.2)

2. PROVIDE TEMPORAL– THREE DISTINCTIVE FIRE ALARM SOUND, (CFC SEC. 907.5.2.1.3, NFPA 72 SEC. 18.4.2.1).

3. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPINABLE AREAS, (NFPA 72 SEC. 18.4.3.1). (IE. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 DBA PLUS 15 DBA EQUALS = 60 DBA MINIMUM ALARM TONE REQUIRED)

4. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BELESS THAN ONE FLASH EVERY SECOND, (2013 NFPA 72 SEC. 18.5.3.1).

5. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF THE DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.

6. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS, (2013 NFPA 72 SEC. 7.8.2 AND FIGURE 7.8.2).

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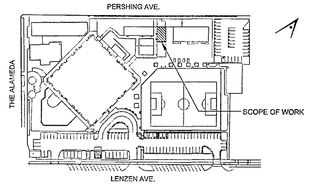
REGISTERED PROFESSIONAL ENGINEER
KENNETH S. INGALL
No. 11537
Exp. 6/30/19
ELECT.
STATE OF CALIFORNIA

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB
1480 THE ALAMEDA
SAN JOSE, CA 95126
SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

FIRE ALARM COVER SHEET

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
ACCEPTED FOR: K-12
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GUIDO
No. C-23919
REN. 9-30-19
STATE OF CALIFORNIA

File Number

Application Number

Project No.
06317

Date
07/20/17

Drawing No
FA0.1

FILE: M:\175-17-05\Hester ES\05FA01.dwg Jun 22, 2017 10:30 am Scale: 1=1 by: CHRIS
XREFS:

PERSHING AVENUE

SEE FIRE ALARM PLAN ON 2/FA1.1

S13-11 (E) F
S13-10 (E) F
S13-9 (E) F
F (E) S13-12 EOL-S13
(E) F S13-8
(E) S13-7 F
(E) F S13-6
(E)
(E)
(E) RPS-C

1 (E) FACP

(E) FA ANNUNCIATOR

SHEET NOTES:

1 (E) FACP TO REMAIN. REPROGRAM DURING CONSTRUCTION AND AFTER COMPLETE INSTALLATION OF THE (N) REST ROOMS & LIFE LAB AS REQIRED.

1 FA1.0 FIRE ALARM SITE PLAN
SCALE: 1"=20'-0"

FILE: M:\175-17-05(Hester ES)\05FA10.dwg Jun 21, 2017 5:51 pm Scale: 1=1 by: CHRIS
XREFS: 36X24BDR.dwg

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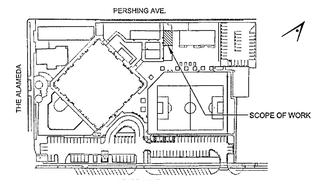
Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB

1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY
OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
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Drawing Title

FIRE ALARM SITE PLAN

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC FLS CO SS
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. DONALD
No. C-23919
REN. 8-30-19
STATE OF CALIFORNIA

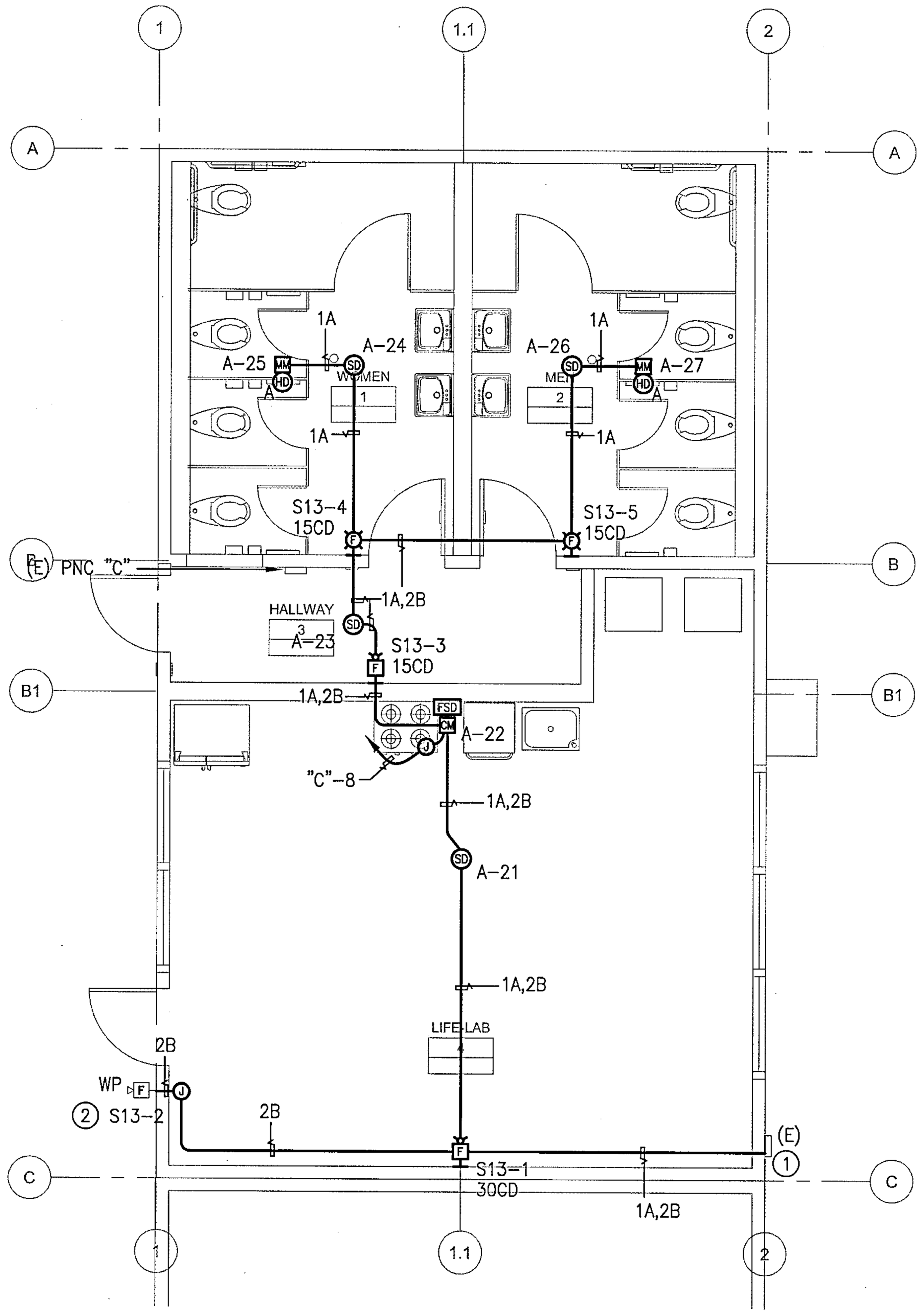
File Number

Application Number

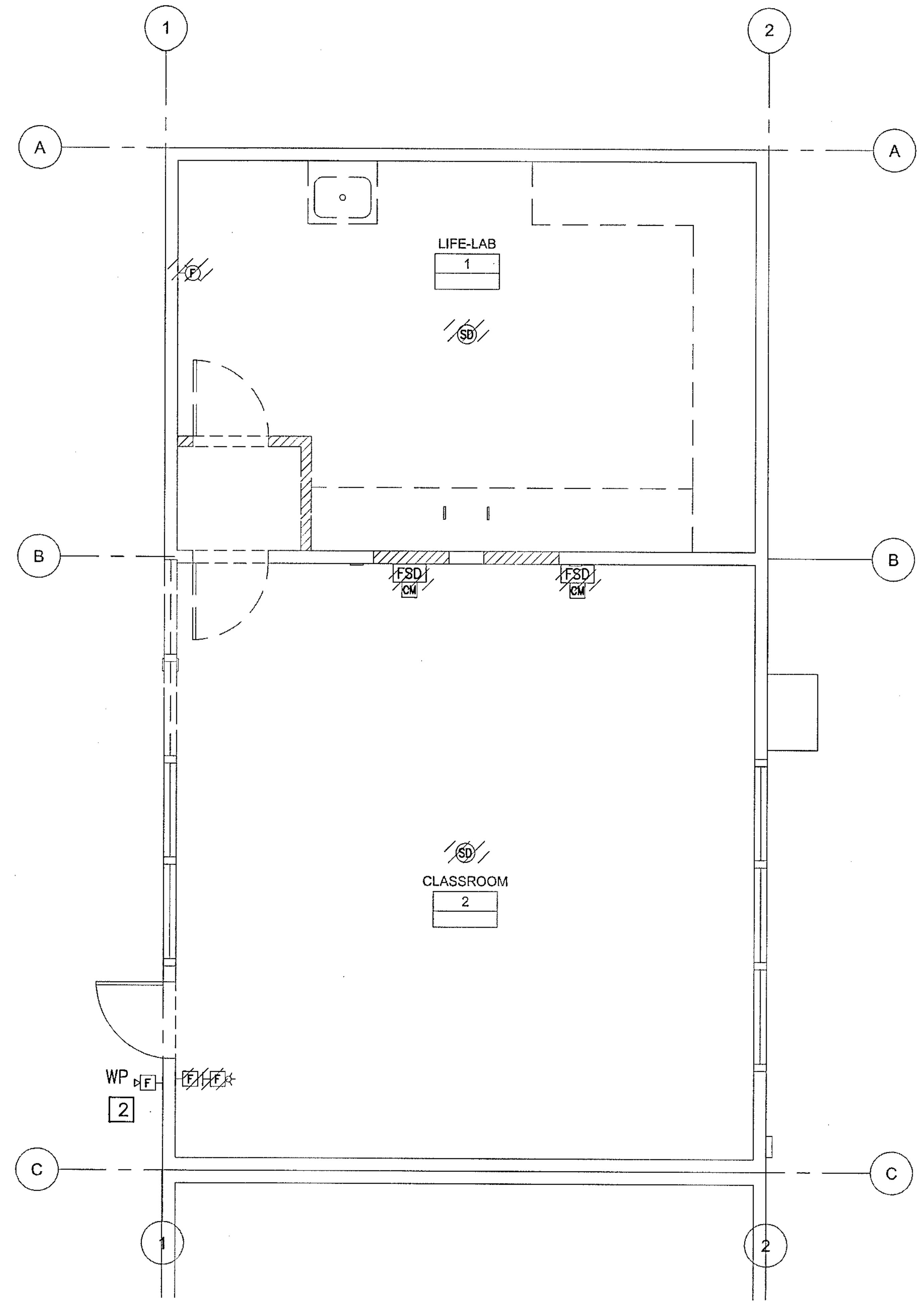
Project No.
06317

Date
07/20/17

Drawing No
FA1.0



2 FA1.1 FIRE ALARM PLAN
SCALE: 1/4"=1'-0"



1 FA1.1 FIRE ALARM DEMOLITION PLAN 1
SCALE: 1/4"=1'-0"

DEMOLITION NOTES:

1. ALL ELECTRICAL ITEMS INCLUDING WIRES AND CONDUIT SHOWN ON THIS DRAWING SHALL BE DISCONNECTED AND REMOVED UP TO SOURCE OR THE NEXT JUNCTION BOX, UON.
2. ELECTRICAL ITEM TO REMAIN. SEE NOTE (2) FOR WORK REQUIRED.

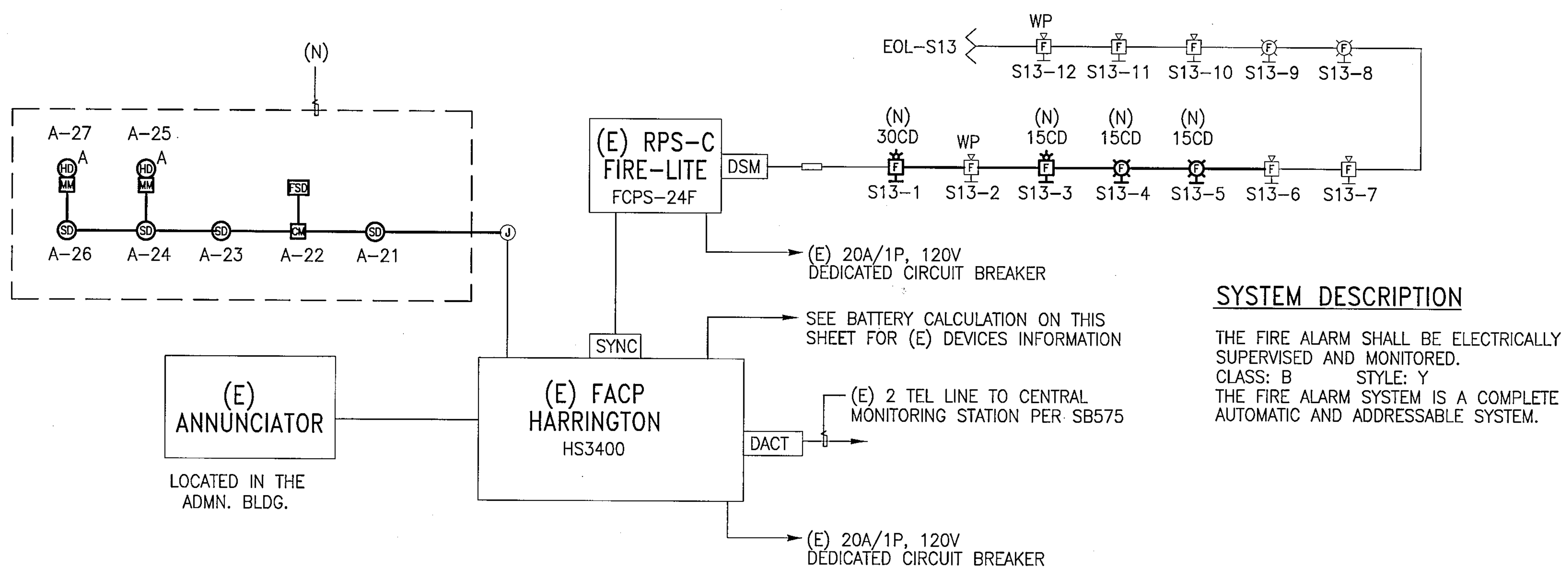
SHEET NOTE:

(1) INSTALL CONDUIT INTO (E) PULLBOX TERMINATE (N) WIRES TO (E).

(2) TERMINATE (N) WIRE TO (E) TO PUT IT BACK IN SERVICE.

GENERAL NOTE:

RE-PROGRAM (E) FACP DURING AND AFTER CONSTRUCTION AS REQUIRED.



3 FA1.1 FIRE ALARM RISER DIAGRAM
NOT TO SCALE.

SYSTEM DESCRIPTION

THE FIRE ALARM SHALL BE ELECTRICALLY SUPERVISED AND MONITORED.
CLASS: B STYLE: Y
THE FIRE ALARM SYSTEM IS A COMPLETE AUTOMATIC AND ADDRESSABLE SYSTEM.

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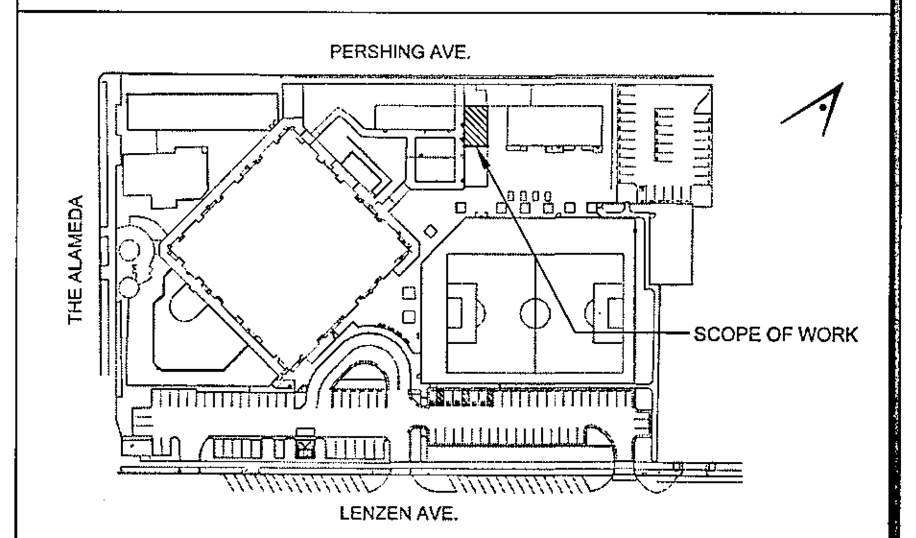
PROJECT NO. 175-17-05

REGISTERED PROFESSIONAL ENGINEER KENNETH S. NGAI No. 11537 Exp. 6/30/19 ELECT. STATE OF CALIFORNIA

Key Plan



Project Title

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SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

FIRE ALARM DEMOLITION PLAN, FIRE ALARM PLAN AND RISER DIAGRAM

Regulatory Agency Approval

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
01-116879
AC FLS SS
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT WILLIAM ... No. C-23919 REN. 9-30-19 STATE OF CALIFORNIA

File Number

Application Number

Project No. 06317

Date 07/20/17

Drawing No

FA1.1

FILE: M:\175-17-05(Hester ES)\05FA11.dwg Jun 21, 2017 6:08 pm Scale: 1=1 by: CHRIS
XREFS: 36X24BDR.dwg A-FLR-1.dwg

(E) HS-3400 Battery Calculation Work Sheet

						Standby Current (A)	Alarm Current (A)
(E) CPU						0.080 A	0.168 A
(E) UDACT, Alarm Communicator	1	x	Standby	0.040	A	0.040 A	
		x	Alarm	0.100	A		0.100 A
Annunciator	1	x	Standby	0.050	A	0.050 A	
		x	Alarm	0.050	A		0.050 A
Data Loops	2	x	Standby	0.026	A	0.052 A	
		x	Alarm	0.058	A		0.116 A
Auxiliary Devices Catalog #	**Qty**						
(E) 2251 Addressable smoke detector	84	x	Standby	0.00036	A	0.0302 A	
		x	Alarm	0.06500	A		5.4600 A
(N) 2251 Addressable smoke detector	4	x	Standby	0.00036	A	0.0014 A	
		x	Alarm	0.06500	A		0.2600 A
(E) DH 200P Heat detector	2	x	Standby	0.00030	A	0.0006 A	
		x	Alarm	0.06500	A		0.1300 A
(E) HSPS-IT	20	x	Standby	0.000375	A	0.0075 A	
		x	Alarm	0.000375	A		0.0075 A
(E) 501M Monitor Module	22	x	Standby	0.000375	A	0.0083 A	
		x	Alarm	0.051000	A		1.122 A
(N) 501M Monitor Module	2	x	Standby	0.000750	A	0.0015 A	
		x	Alarm	0.057000	A		0.114 A
(E) M500C Control Module	2	x	Standby	0.000400	A	0.0008 A	
		x	Alarm	0.065000	A		0.130 A
(N) M500C Control Module	1	x	Standby	0.000400	A	0.0004 A	
		x	Alarm	0.065000	A		0.065 A
Notification Devices Catalog #	**Qty**						
ST-24-15cd Strobe	0	x	Alarm	0.057	A		0.000 A
ST-30cd Strobe	0	x	Alarm	0.085	A		0.000 A
ST-75cd Strobe	0	x	Alarm	0.135	A		0.000 A
ST-110cd Strobe	0	x	Alarm	0.182	A		0.000 A
HS-15cd Horn/Strobe	0	x	Alarm	0.082	A		0.000 A
HS-30cd Horn/Strobe	0	x	Alarm	0.102	A		0.000 A
HS-75cd Horn/Strobe	0	x	Alarm	0.148	A		0.000 A
HS-110cd Horn/Strobe	0	x	Alarm	0.197	A		0.000 A
AH-24WP Weatherproof Horn	0	x	Alarm	0.080	A		0.000 A
NH-24R Horn, Low	0	x	Alarm	0.018	A		0.000 A
DSM-24R	0	x	Alarm	0.055	A		0.000 A
		x	Alarm		A		A
Total Standby Current						**0.273 A**	
Total Alarm Current							**7.723 A**

Hours of Standby required by NFPA 72 Standards, (4,24 or 60)	X	24	HOURS
Total A.H required for standby:			**6.55 AH**
5 Minute of Alarm operation per NFPA 72 Standards	X	5min.	(0.0833 Hours)
Total A.H required for Alarm:			**0.643 AH**
Add total standby current and alarm current:			**7.19 AH**
De-rating factor (20% extra insurance to meet desired performance	X		1.20%
Total A.H required for battery back-up			**8.63 AH**

Notes:

1. An additional multiplier is included to compensate for the higher discharge rate in alarm. Battery capacity decreases with age
2. A 4-year old battery can lose up to 50% of its capacity. Compensations should be made to allow for this loss.
3. The Standby current + Alarm current must never exceed 4.66 Amps.
4. **(E) Battery set is 12 AH**

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME—— HESTER SCHOOL
SIG CKT #—— S13

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	1	60	60	60	20	30	30	30	30	20	30	30	40
AMPS @ DEVICE	0.102	0.027	0.027	0.041	0.041	0.027	0.027	0.041	0.027	0.041	0.027	0.027	0.08
AMPS DEVELOPED	0.535	0.433	0.406	0.379	0.338	0.297	0.27	0.243	0.202	0.175	0.134	0.107	0.08
VOLT. DROP	0.0017013	0.0826164	0.0774648	0.0723132	0.0214968	0.0283338	0.025758	0.0231822	0.0192708	0.01113	0.0127836	0.0102078	0.010176

SIGNAL CIRCUIT # S13
TOTAL CKT V.D.= 0.3964347
CKT VOLTAGE= 20.4
VOLTAGE AT
FINAL DEVICE= 20.003565
%VOLTAGE DROP= 1.9433074

INITIATING DEVICE LABEL

A – 21

A: INITIATING CIRCUIT NUMBER
21: DEVICE CIRCUIT

NAC DEVICE LABEL

A – 2

A: NOTIFICATION APPLIANCE ZONE CIRCUIT NUMBER
2: DEVICE NUMBER

CABLE DESIGNATION

1 A

1: CABLE QTY
A: CABLE TYPE

EQUIPMENT LIST

MANUFACTURER	MODEL	DESCRIPTION	CSFM NUMBER
Harrington	HS–3400	(E) Fire Alarm Control Panel	7165–0476:0114
Firelite	FCPS–24F	(E) Fire Alarm Power Supply	7315–0075:0176
Harrington	2251	Smoke Detector Head, Photoelectric, Analog	7272–1209:0160
Harrington	B501	Base, Detector, Addressable	7300–1209:0128
Harrington	M500	Monitor Module	7300–1209:0104
Harrington	M500R	Control Module	7300–1209:0104
System Sensor	5602	Heat Detector	7270–1653:0167
Wheelock	HS	Horn Strobe	7125–0785:0168
Wheelock	ST	Strobe	7125–0785:0168
Wheelock	AH–24WP–R	Horn, Weatherproof	7125–0785:0131
Wheelock	WBB–R	Back Box, Exterior	
West Penn	D990	Cable, 1 PR 16 AWG Twisted pair Type FPL	7161–0859:0101
West Penn	998S	Cable, 1 PR 12 AWG Twisted pair Type FPL	7161–0859:0101
	THHN/THWN	#12 SOLID, BLACK	
	THHN/THWN	#12 SOLID, RED	

FA SYSTEM OPERATIONAL MATRIX

	Annunciate Alarm Condition at New FACP, Annunciator	Annunciate Trouble Condition at New FACP, Annunciator	Activate Fire Alarm Visual/Audible Notification Device	Annunciate Supervisory Condition New FACP, Annunciator	HVAC Unit Shut Down	Smoke Fire Damper Closing		
Manual Pull Station	X	X	X					
Smoke Detector	X	X	X					
Heat Detector	X	X	X					
System Trouble		X						
Flow Switch	X	X	X					
Smoke Duct Detector	X	X	X		X			
Snoke Duct detector Intergrate with FSD	X	X	X		X	X		

* NOTE: Addressable devices that are broken, missing, dirty, etc. also send a trouble signal to both the FACP and to the Supervising Station.

(E) RPS-C Battery Calculation Work Sheet

						Standby Current (A)	Alarm Current (A)
FCPS-24S6						0.065 A	0.145 A
Auxiliary Devices							
Catalog Number	**Qty**						
		x	Standby		A	0.000 A	
Door Holders							
Catalog Number	**Qty**						
		x	Standby		A	0.000 A	
Notification Appliances							
Catalog Number	**Qty**						
ST-24-15cd Strobe	0	x	Alarm	0.041	A		0.000 A
HS-15cd Horn/Strobe	0	x	Alarm	0.082	A		0.000 A
HS-30cd Horn/Strobe	1	x	Alarm	0.102	A		0.102 A
HS-75cd Horn/Strobe	1	x	Alarm	0.148	A		0.148 A
HS-110cd Horn/Strobe	0	x	Alarm	0.197	A		0.000 A
AH-24WP Weatherproof Horn	3	x	Alarm	0.08	A		0.240 A
Existing Mini Horn NH-24	10	x	Alarm	0.027	A		0.270 A
Total Standby Current						**0.07 A**	
Total Alarm Current							**0.145 A**

Hours of Standby required by NFPA 72 Standards, (4,24 or 60)	X	24	HOURS
Total A.H required for standby:			**1.56 AH**
5 Minute of Alarm operation per NFPA 72 Standards	X	5min.	(0.0833 Hours)
Total A.H required for Alarm:			**0.01 AH**
Add total standby current and alarm current:			1.57 **AH**
De-rating factor (20% extra insurance to meet desired performance	X		1.20%
Total A.H required for battery back-up			**1.97 AH**

Notes:

1. The alarm current must never exceed 6.14 Amps.
2. Supplied Battery Set 7.0AH

NOTES:

1. The alarm current must never exceed 6.14 Amps
2. (E) Supplied Battery Set 7.0AH

FIRE ALARM WIRING LEGEND

SYMBOL	WIRE TYPE	USED ON
A	2–CONDUCTOR, #16 TWISTED PAIR UNSHIELDED (D990)	ADDRESSABLE ALARM INITIATING DEVICES: – SMOKE DETECTORS – INTERFACE MODULES – PULL STATION
AA	2–CONDUCTOR, #16 TWISTED PAIR UNSHIELDED (AQ225)	ADDRESSABLE ALARM INITIATING DEVICES: – SMOKE DETECTORS – INTERFACE MODULES – PULL STATION
B	2–CONDUCTOR, #12 AWG UNSHIELDED (998S)	AUDIO/VISUAL FROM NAC INDICATING DEVICES: – (SYNC HORN/STROBE CIRCUITS)
	2–CONDUCTOR, #12 AWG SOLID, THWN (GROUNDED WIRE)	120 VAC POWER WIRING TO: – F.A. CONTROL PANEL POWER SUPPLY PANEL

SHEET NOTES:

1. THE (E) FIRE ALARM SYSTEM WERE DONE ON CLASSROOM MODERNIZATION PROJECTS WITH DSA APP # 01–106785 AND 01–102072.
2. THIS RESTROOM & LIFE LAB ALTERATION WORK DOES NOT INCLUDE REPLACEMENT OF THE ENTIRE FIRE ALARM SYSTEM. THEREFORE, RETROFIT FOR EVAC DOES NOT REQUIRE PER DSA IN F–1.

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PROJECT NO. 175-17-05

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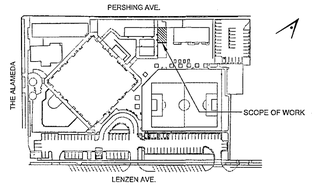
Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB

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SAN JOSE, CA 95126

SANTA CLARA COUNTY
OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

FIRE ALARM VOLTAGE DROP, BATTERY CALCULATION, LEGEND AND EQUIPMENT LIST

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
ACCEPTED FLS SS
DATE OCT 05 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-19
STATE OF CALIFORNIA

File Number

Application Number

Project No. 06317

Date 07/20/17

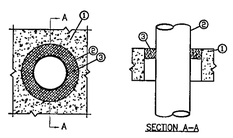
Drawing No

FA2.1

FILE: M:\175-17-05(Hester ES)\05FA21.dwg Jun 23, 2017 2:52 pm Scale: 1=1 by: CHRIS
XREFS:

THROUGH–PENETRATION FIRESTOP SYSTEM DETAILS

System No. C–AJ–1027
(Formerly System No. 202)
F RATING – 3 HOUR
T RATING – 0 HOUR



1. FLOOR OR WALL ASSEMBLY – MIN 4–1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX THROUGH OPENING SIZE IS 12.4 SQ. IN.

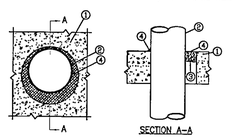
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. PIPE OR CONDUIT – NOM. 10 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) RIGID STEEL CONDUIT, NOM 4 IN. DIA. (OR SMALLER) STEEL EMT OR NOM 3 IN. DIA. (OR SMALLER). TYPE L (OR HEAVIER) COPPER PIPE. MAX ONE PIPE OR CONDUIT PER THROUGH OPENING. MAX ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 3/4 IN. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 0 IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTHS SIDES OF FLOOR OR WALL ASSEMBLY.

3. FILL VOID OR CAVITY MATERIALS – PUTTY–MOLDABLE PUTTY MATERIAL KNEEDED BY HAND AND APPLIED TO FILL ANNULAR SPACE TO A MIN DEPTH OF 1 IN FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED PUTTY THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL.

   MINNESOTA MINING & MFG. CO.– MPS–24.
   BEARING THE UL CLASSIFICATION MARKING.

SYSTEM NO. CAJ1044
(Formerly System No. 319)
T RATING – 0 HR
L RATING AT AMBIENT – 2 CFM/SQ FT (SEE ITEM 4)
L RATING AT 400 F – LESS THAN 1 CFM/SQ FT (SEE ITEM 4)



1. FLOOR WALL ASSEMBLY–LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4–1/2 IN. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. THICK UL CLASSIFIED HOLLOW–CORE, PRECOAT CONCRETE UNITS. WHEN FLOOR IS CONSTRUCTED OF HOLLOW–CORE PRECOAT CONCETE UNITS, PACKING MATERIALS (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMETRYCALLY ON BOTH SIDES OF THE FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF CLASSIFIED CONCRETE BLOCKS. MAX DIA. OF OPENING IS 32 IN.
   SEE CONCTRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURER

1A. STEEL SLEVE – (OPTIONAL NOT SHOWN) NOM 16 IN. (OR SMALLER) SCHEDULE 10 (ORHEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP FLOOR OR BEYOND EITHER SURFACE OF WALL.

2. PIPE OR CONDUIT – NOM 30 IN.DIA. (OR SMALLER) CAST IRON OR SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) STEEL CONDUIT, NOM 3 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE OR NOM 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALIC TUBING. MAX ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING NOT TO EXCEED 2 IM. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0 IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDE OF FLOOR OR WALL ASSEMBLY.

3. PACKING MATERIAL – POLYETHYLENE BACKER ROD OR NOM 1 IN. THICKNESS OF THIGHTLY–PACKRD MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OF FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

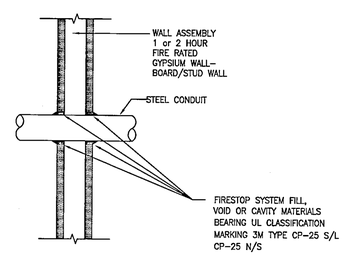
4. FILL, VOID OR CAVITY MATERIAL – CAULK – APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. THE HOURLY F RATING AND THE MIN REQUIRED CAULK THICKNESS ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN ON THE FOLLOWING TABLE.

MIN FLOOR OR WALL THKNS, IN	NOM PIPE TUBE OR CONDUIT DIA, IN.	MAX ANNULAR SPACE, IN	MAX. CAULK THKNS, IN	F RATING, HR
2–1/2	1/2–12	1–3/8	1/2	2
2–1/2	1/2–12	2–7/8	1	2
4–1/2	1/2–6	1–3/8	1/4(a)	2
4–1/2	1/2–12	1–1/4	1/2	3
4–1/2	1/2–20	2	1	3
4–1/2	22–30	2	2	3
5–1/2	1/2–6	1–3/8	1(b)	4

(a) MIN 2 IN THICKNESS OF MINERAL–WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.
(b) MIN 1 IN. THICKNESS OF MINERAL–WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1IN. THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE FLOOR OR WALL ASSEMBLY.

MINNESOTA MINING & MANUKACTURING CO – TYPES CP–25 WB, CP–25 WB+.
(NOTE: L RATING AND OR USE OF OPTIONAL SLEEVE APPLY ONLY WHEN TYPE CP–25WB+ CAULK IS USED).

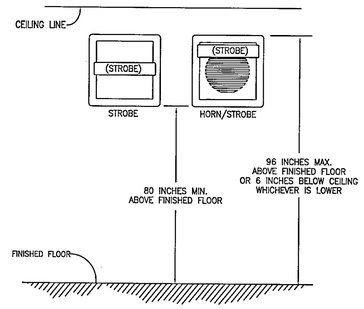
SYSTEM NO. WL1001
(Formerly System No. 147)
F RATING – 1 & 2 HOUR
T RATING – 0, 1, 1–1/2 & 2 HOUR



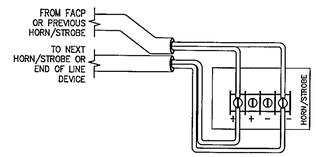
1. SEAL ALL PENETRATIONS IN ACCORDANCE WITH APPLICABLE CODES TO PRESERVE ORIGINAL FIRE HOUR RESISTANCE OF WALLS, FLOORS OR CEILINGS. USE UL DIRECTOY ASSEMBLY NOS. 49 & 328, AS APPLICABLE FOR ALL FIRE WALL PENETRATIONS.

2. AT FIRE SEPARATION WALLS, WRAP CONDUIT WITH 3M CONDUIT WRAP F3–195 TO WITHIN 1/4" OF OPENING; FILL THE GAP AND COVER EDGE OF WRAP WITH 3M–CP25 CAULK AND/OR #303 PUTTY.

MISCELLANEOUS DETAILS



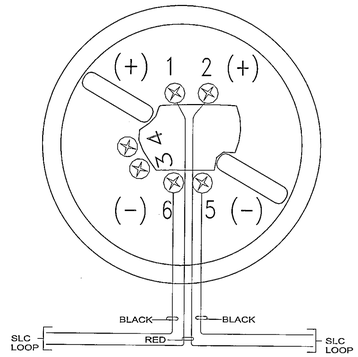
TYPICAL MOUNTING ELEVATION DETAIL OF STROBE & HORN/STROBE



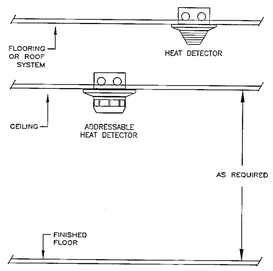
HORN/STROBE CIRCUIT, 24VDC

NOTE:
1. STROBE CIRCUIT COMING FROM THE NAC USE: 24K, END OF LINE DEVICE.

HORN/STROBE, STROBE & HORN DETAILS



DETECTOR BASE



ADDRESABLE & CONVENTIONAL DETECTORS MOUNTING DETAIL

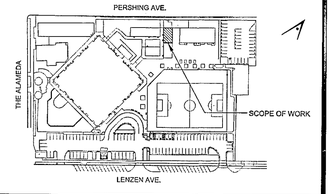
ARTiK
ART & ARCHITECTURE
394-A Umbarger Rd
San Jose, CA 95111
Phone 408.224.9890
Fax 408.224.9891
www.ArtikA3.com

Consultant Seal

Alliance Engineering Consultants, Inc.
4701 Patrick Henry Drive, Bldg. 10
Santa Clara, CA 95054
phone (408) 970–9888
fax (408) 970–9316
PROJECT NO. 175-17-05
www.aec–engineers.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. IVGAI
No. 11537
Exp. 6/30/19
ELECT.
STATE OF CALIFORNIA

Key Plan



Project Title

HESTER SCHOOL
RESTROOMS & LIFE LAB

1480 THE ALAMEDA
SAN JOSE, CA 95126

SANTA CLARA COUNTY OFFICE OF EDUCATION

No	Revisions/Submissions	Date
1	DSA SUBMITTAL	07/20/2017
2	DSA BACKCHECK SUBMITTAL	10/05/2017

Drawing Title

FIRE ALARM DETAILS

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
01-116879
AC FLS SS
DATE OCT 11 2017

Architect Seal

LICENSED ARCHITECT
WILLIAM F. CRUZ
No. C-23919
REN. 9-30-19
STATE OF CALIFORNIA

File Number

Application Number

Project No.
06317

Date
07/20/17

Drawing No
FA3.1

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