# HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL



DESCRIPTION

SSUED FOR PROGRESS REVIEW

SSUED FOR PLAN CHECK

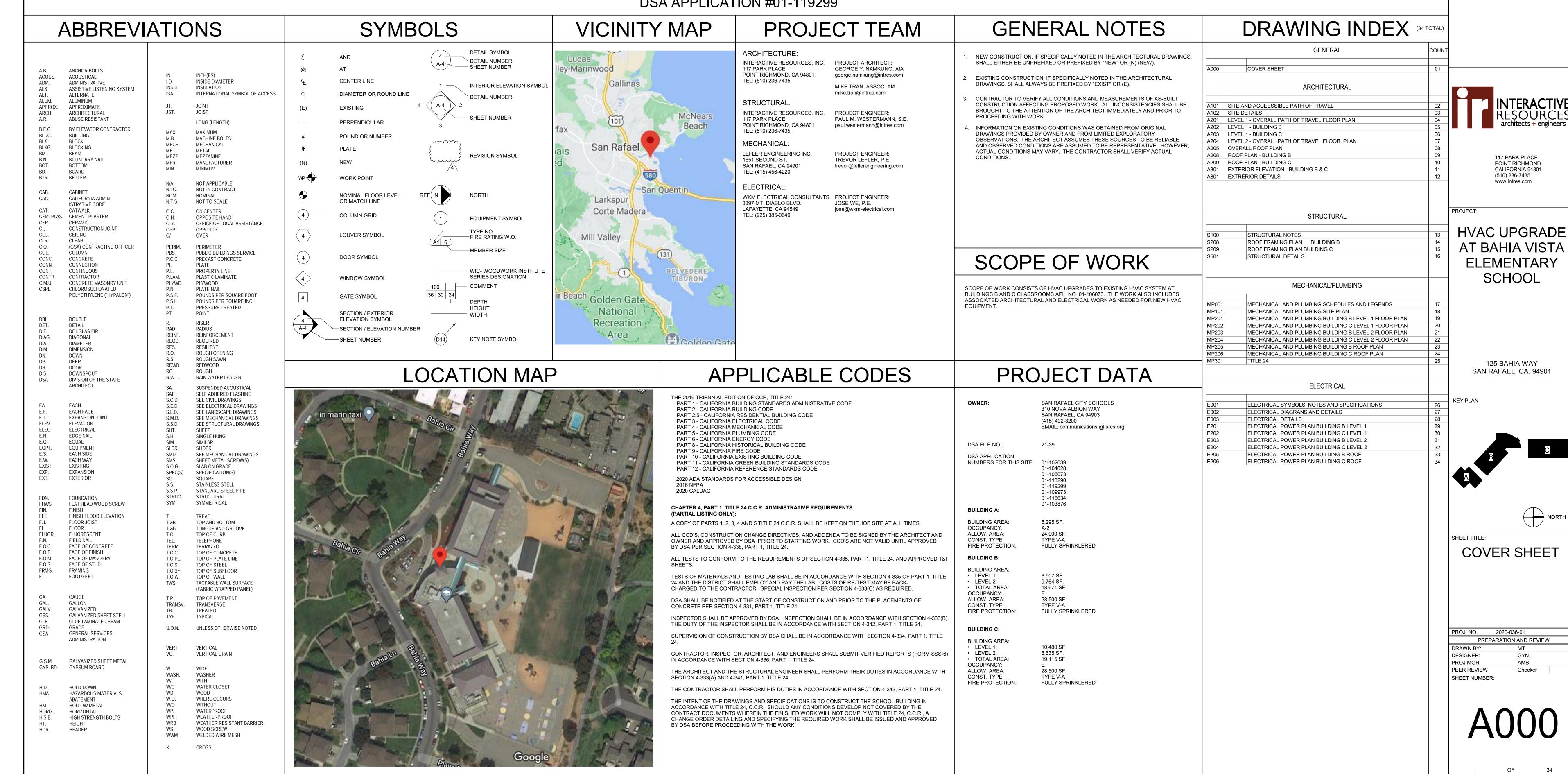
SSUED FOR CONSTRUCTION

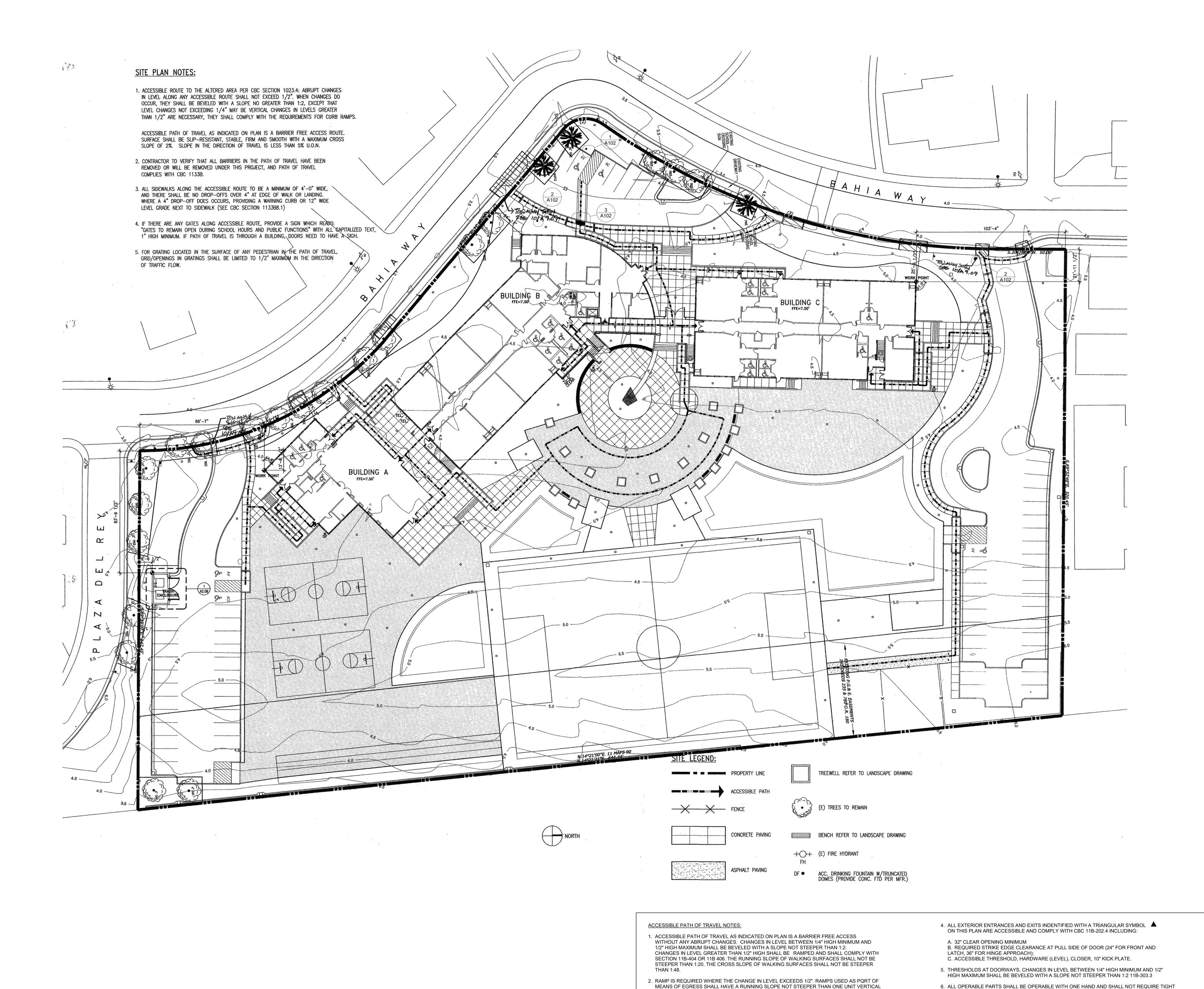
SSUED FOR PERMI

| INITIAL | DATE

## 125 BAHIA WAY SAN RAFAEL, CA. 94901

DSA APPLICATION #01-119299





MEANS OF EGRESS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN ONE UNIT VERTICAL

3. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVE

IN 12 UNITS HORIZONTAL (8% SLOPE) PER CBC SECTION 1012.

PER SECTION 11B-202.4.

KEY PLAN

REVISION DESCRIPTION

ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK

ISSUED FOR CONSTRUCTION

**ISSUED FOR PERMIT** 

ISSUED FOR BID

CONSULTANT:

INTERACTIVE RESOURCES architects + engineers

117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435

www.intres.com

**HVAC UPGRADE** 

AT BAHIA VISTA

**ELEMENTARY** 

SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901

INITIAL DATE

NORTH

SHEET TITLE:

SITE AND **ACCEESSIBLE** PATH OF TRAVEL

PROJ. NO. 2020-036-01 PREPARATION AND REVIEW DRAWN BY: DESIGNER: GYN PROJ MGR: AMB

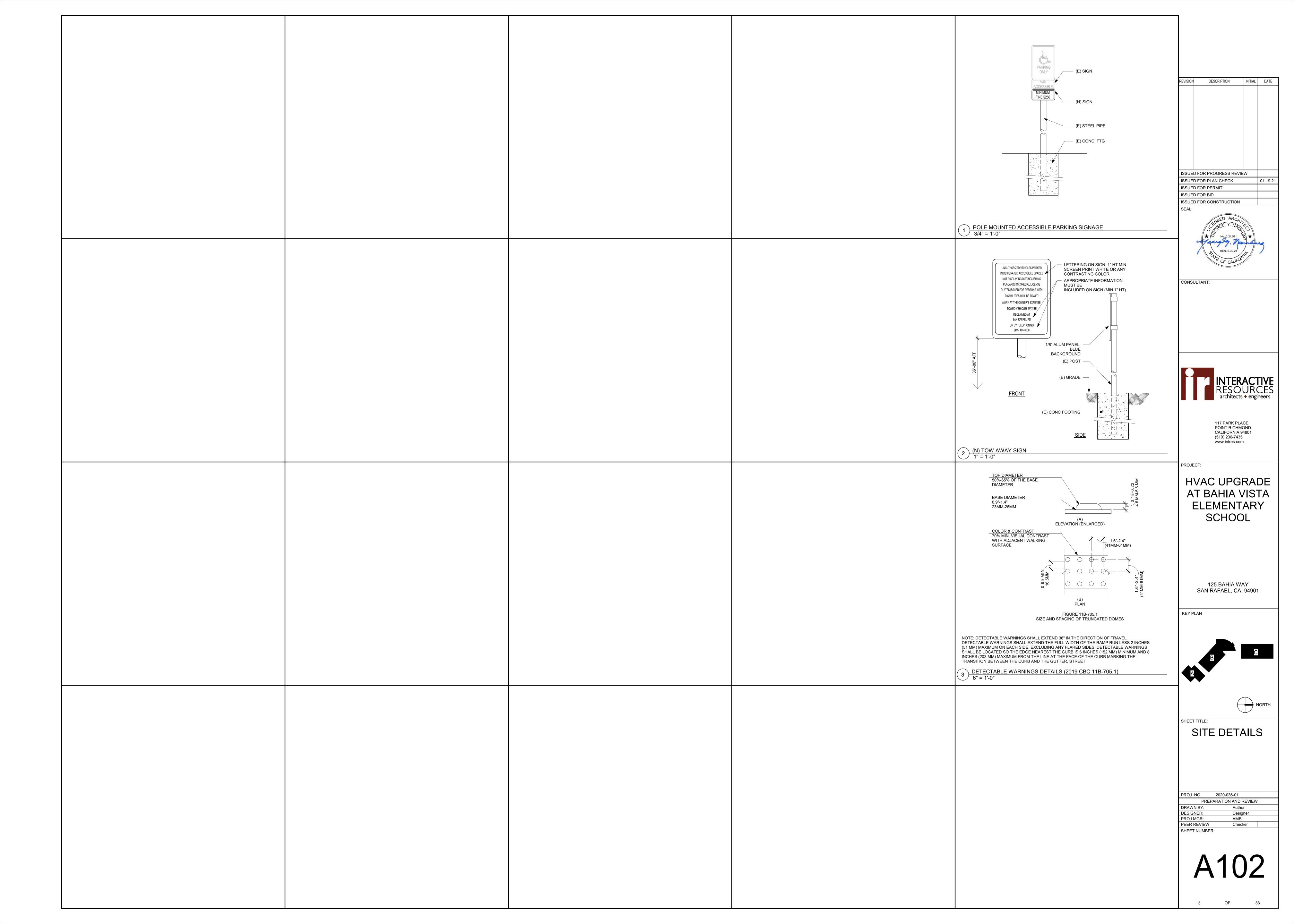
PEER REVIEW Checker SHEET NUMBER:

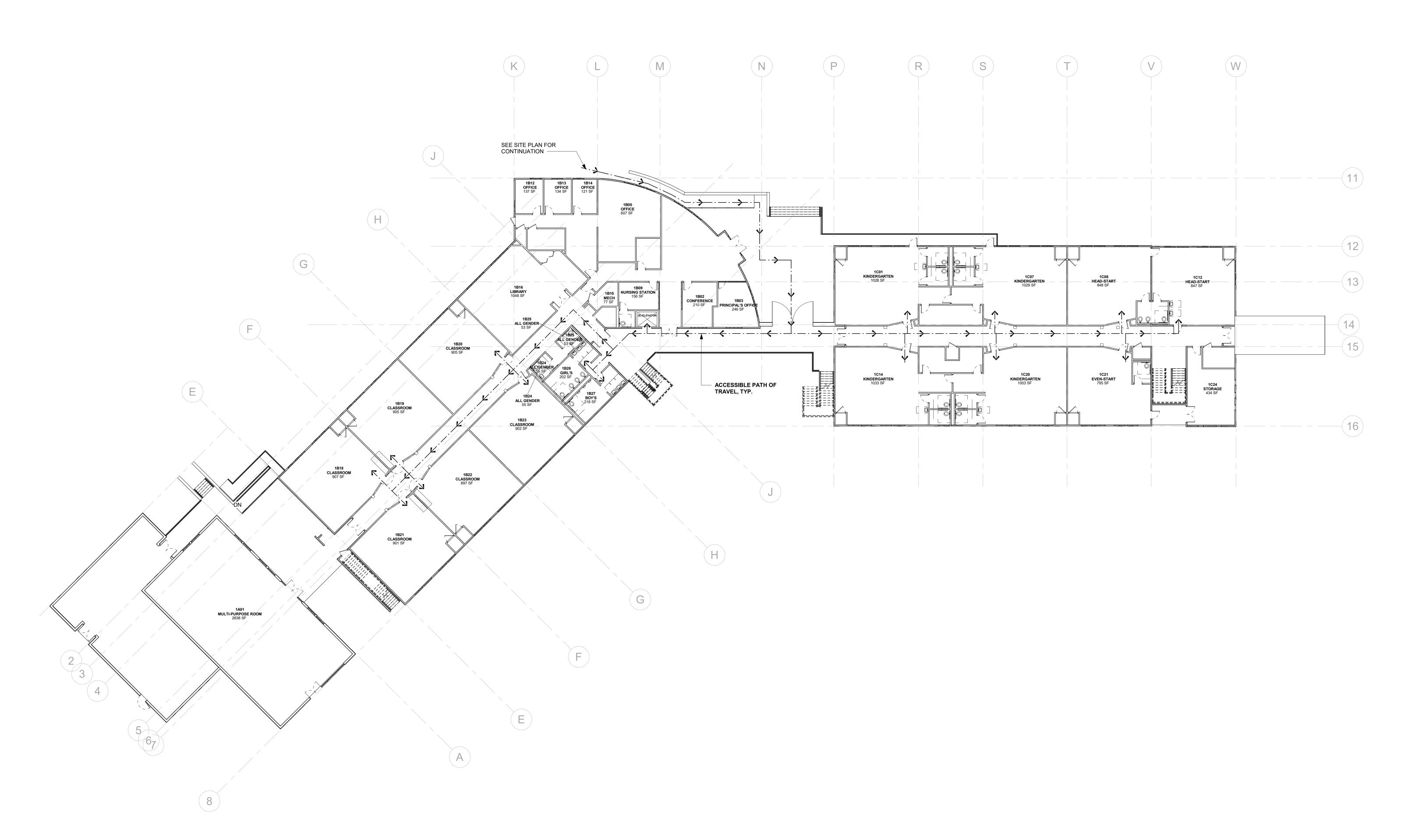
HORIZONTALLY INTO THE CIRCULATION PATH.

OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. 11B-309.4, 11B606.4

GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE

7. VERIFY ALL PROTRUDING OBJECTS - HAND DRYERS, TV'S SIGNAGE, FIRE EXTINGUISHERS, ECT, ARE IN COMPLIANCE WITH 11B-307 OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4" MAXIMUM





ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK
ISSUED FOR PERMIT
ISSUED FOR BID

SEAL:

SEAL:

No. C 24,511

CONSULTANT:



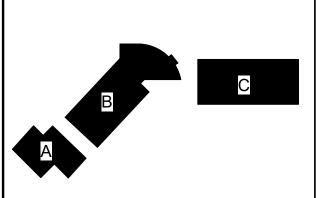
117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 www.intres.com

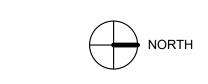
PROJECT

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN





LEVEL 1 OVERALL PATH
OF TRAVEL
FLOOR PLAN

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: Author

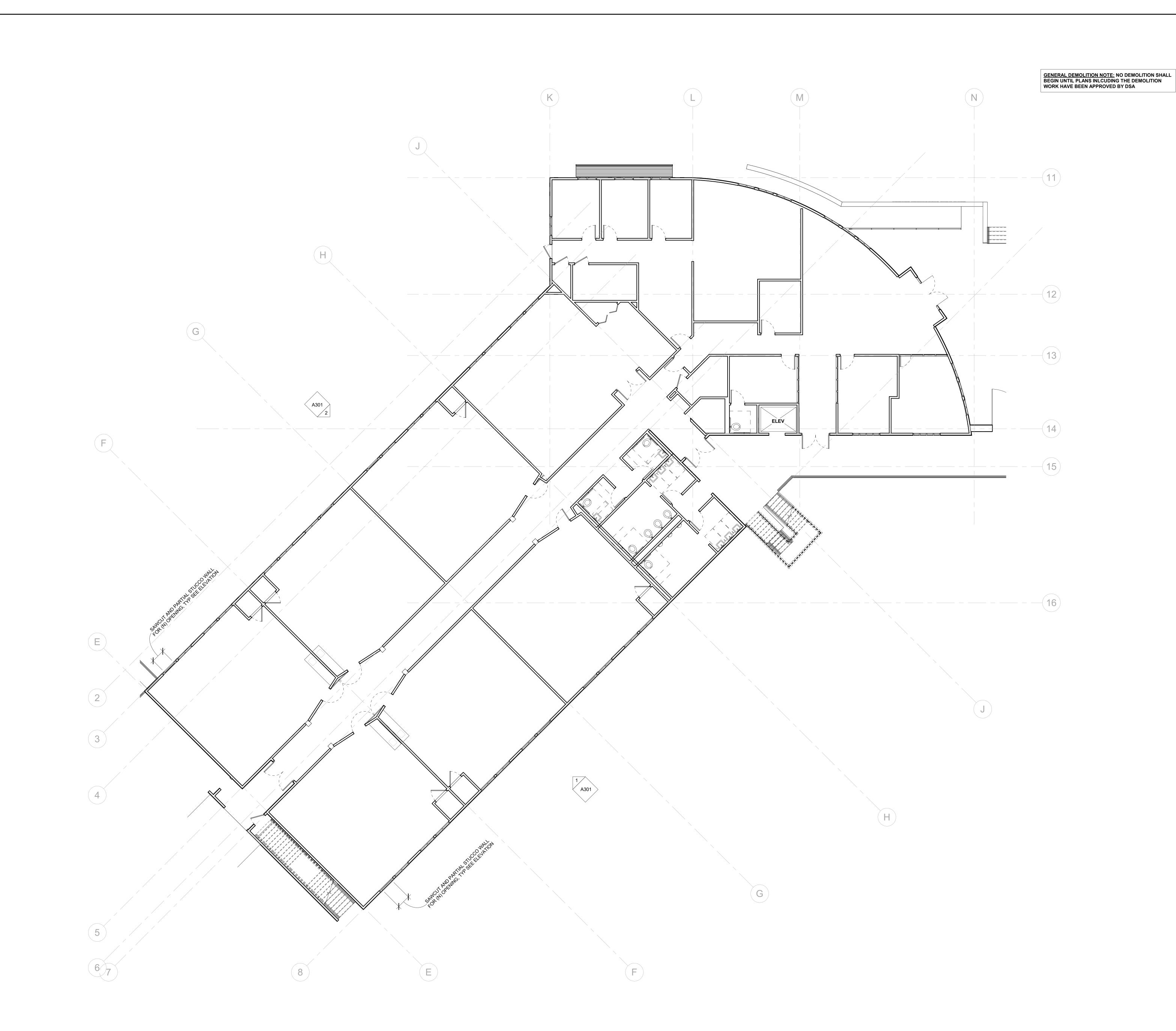
DESIGNER: Designer

PROJ MGR: AMB

PEER REVIEW Checker

SHEET NUMBER:

A201



ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK
ISSUED FOR PERMIT
ISSUED FOR BID

SEAL:

SEAL:

No. C 24,511

No. C 24,511

CONSULTANT:



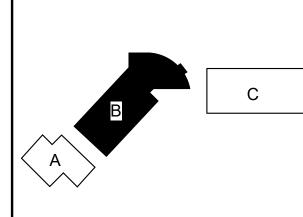
117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 www.intres.com

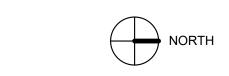
PROJECT:

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN





LEVEL 1 - BUILDING B

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: MT

DESIGNER: GYN

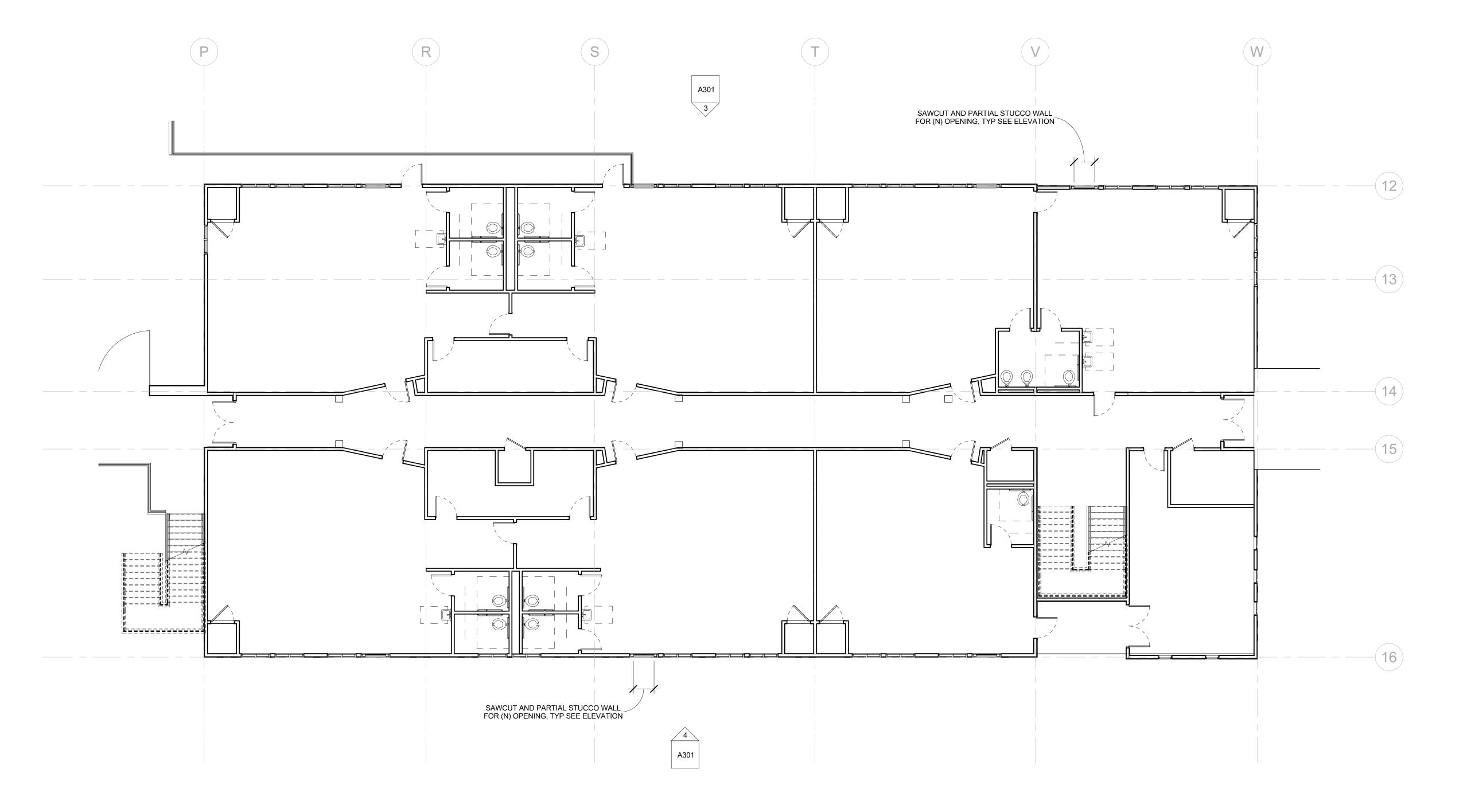
PROJ MGR: AMB

PEER REVIEW Checker

SHEET NUMBER:

A202

GENERAL DEMOLITION NOTE: NO DEMOLITION SHALL BEGIN UNTIL PLANS INLCUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA



REVISION DESCRIPTION INITIAL DATE

ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK 01.19
ISSUED FOR PERMIT
ISSUED FOR BID

ISSUED FOR CONSTRUCTION

SEAL:

CENSED ARCHITECT

No. C 24,511

OR REN. 6-30-21

REN. 6-30-21

CONSULTANT:



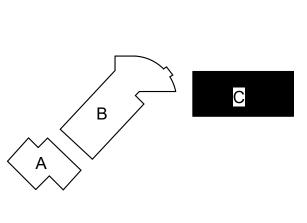
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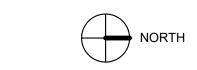
PROJECT

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN





SHEET TITLE:

LEVEL 1 -BUILDING C

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: Author

DESIGNER: Designer

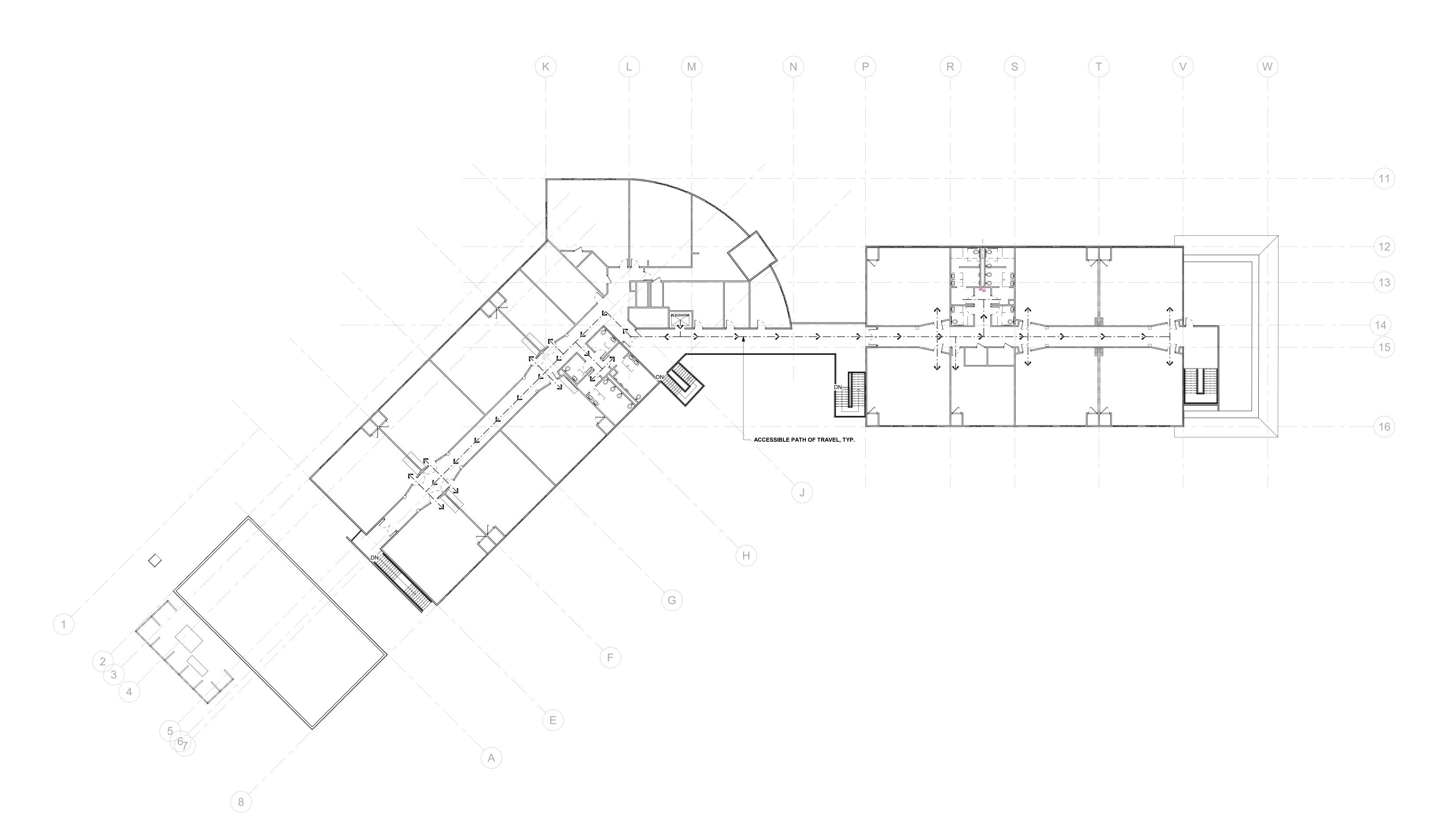
PROJ MGR: AMB

PEER REVIEW Checker

SHEET NUMBER:

A203

1 LEVEL 1 BUILDING C 1/8" = 1'-0"



ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK
ISSUED FOR PERMIT
ISSUED FOR BID

SEAL:

SEAL:

REN. 6-30-21

REN. 6-30-21

CONSULTANT:



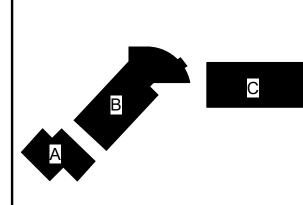
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PROJEC

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN



NORTH

LEVEL 2 OVERALL PATH
OF TRAVEL
FLOOR PLAN

PROJ. NO. 2020-036-01
PREPARATION AND REVIEW
DRAWN BY: MT

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: MT

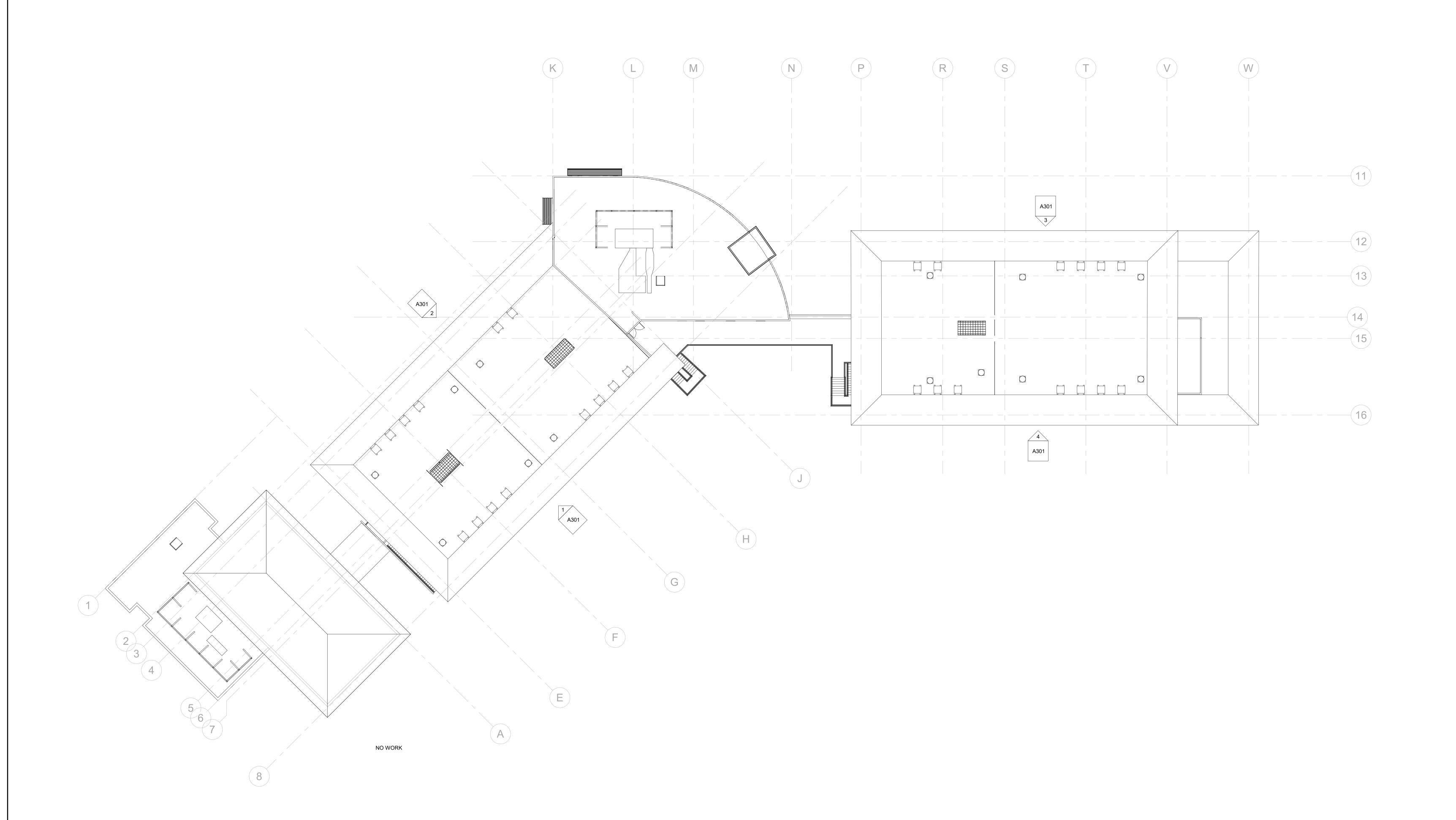
DESIGNER: GYN

PROJ MGR: AMB

PEER REVIEW Checker

SHEET NUMBER:

A204



ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK 01.

ISSUED FOR PERMIT

ISSUED FOR BID

ISSUED FOR CONSTRUCTION

SEAL:

CLINGED ARCHITCH

CLINGE Y. NAME

No. C 24,511

REN. 6-30-21

REN. 6-30-21

CONSULTANT:



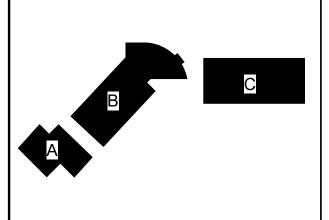
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PROJECT

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN



NORTH ET TITLE:

OVERALL ROOF PLAN

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: MT

DESIGNER: GYN

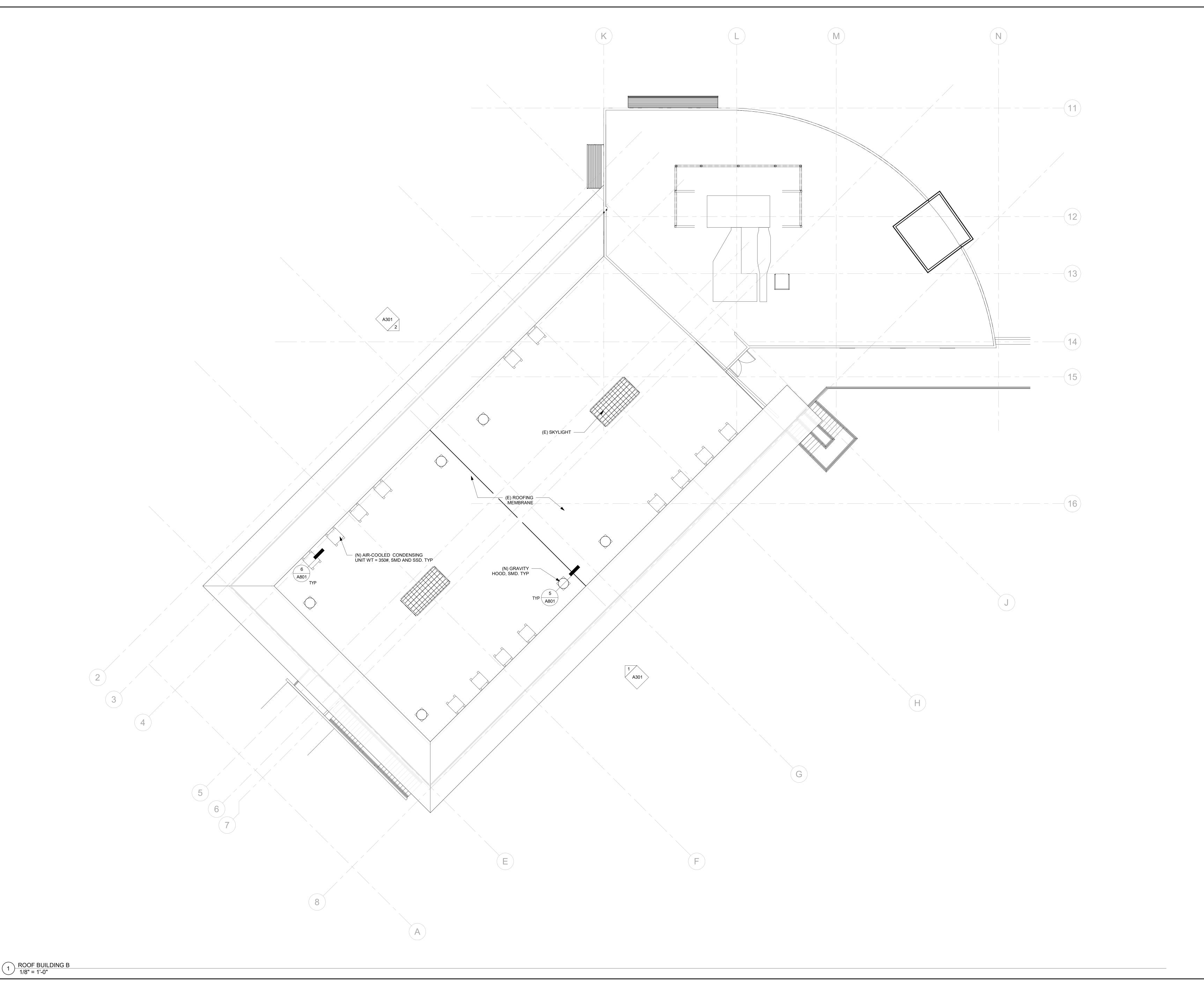
PROJ MGR: AMB

PEER REVIEW Checker

SHEET NUMBER:

A205

1 roof OVERALL 1/16" = 1'-0"



ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK
ISSUED FOR PERMIT
ISSUED FOR BID

SEAL:

SEAL:

REN 6-30-21

CONSULTAN



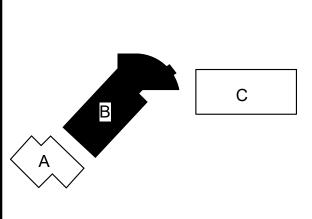
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PROJEC

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN



NORTH
SHEET TITLE:

ROOF PLAN -BUILDING B

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: MT

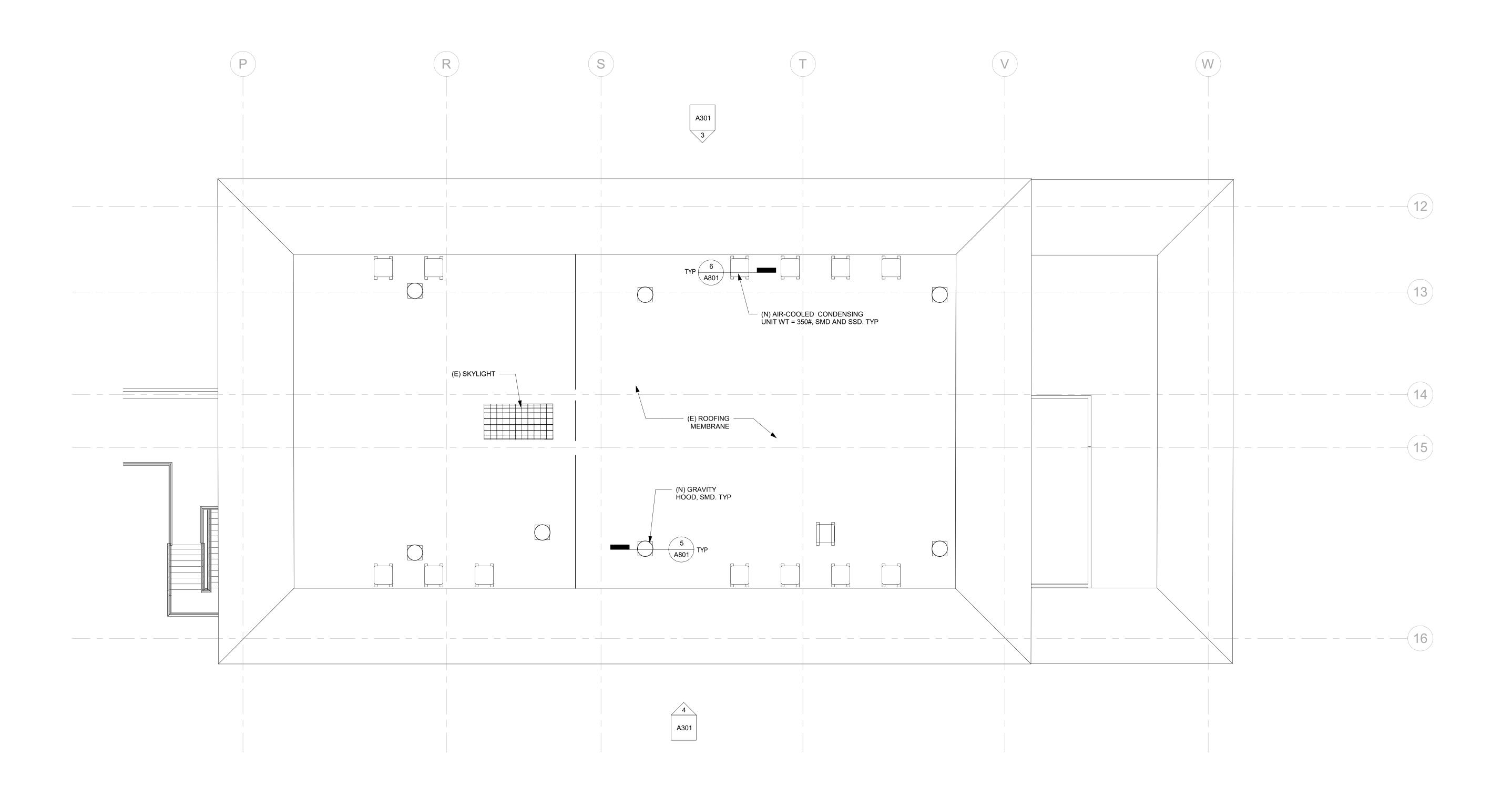
DESIGNER: GYN

PROJ MGR: AMB

PEER REVIEW Checker

SHEET NUMBER:

A208



ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK
ISSUED FOR PERMIT

ISSUED FOR BID
ISSUED FOR CONSTRUCTION



CONSULTANT:



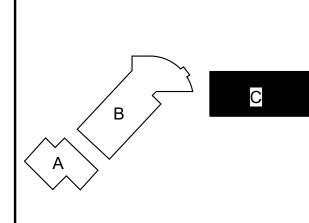
117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 www.intres.com

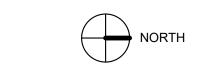
PROJEC

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN





ROOF PLAN -BUILDING C

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: MT

DESIGNER: GYN

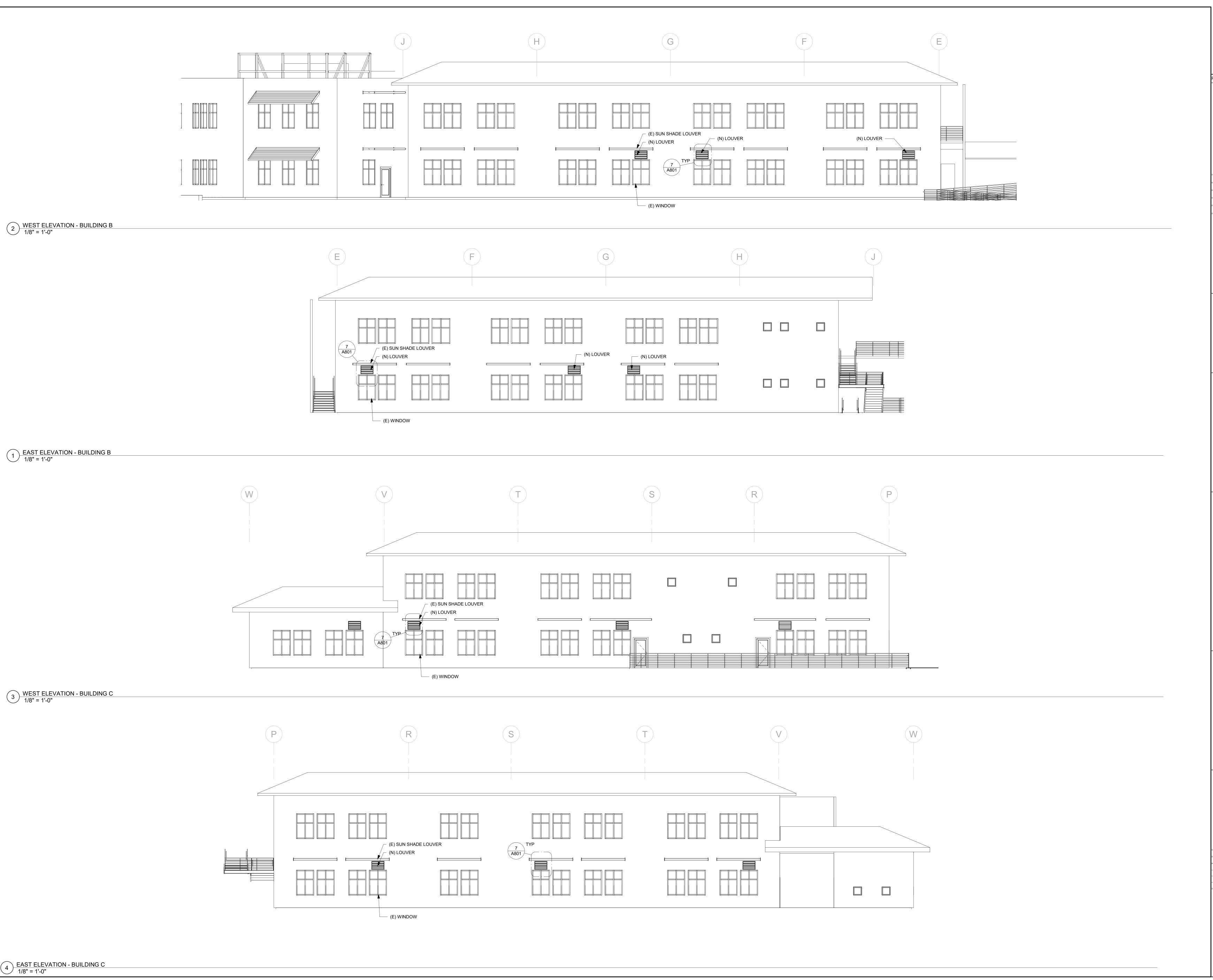
PROJ MGR: AMB

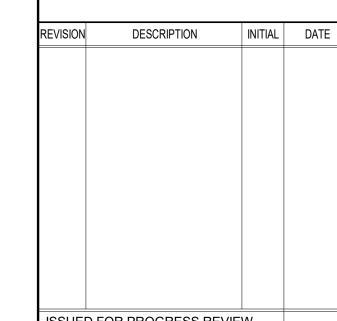
PEER REVIEW Checker

SHEET NUMBER:

A209

1 ROOF BUILDING C 1/8" = 1'-0"





ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK 01.19

ISSUED FOR PERMIT

ISSUED FOR BID

ISSUED FOR CONSTRUCTION



CONSULTANT:



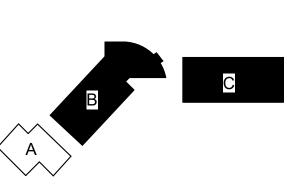
117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 www.intres.com

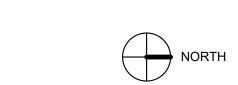
PROJECT:

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN







ELEVATION -BUILDING B & C

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: MT

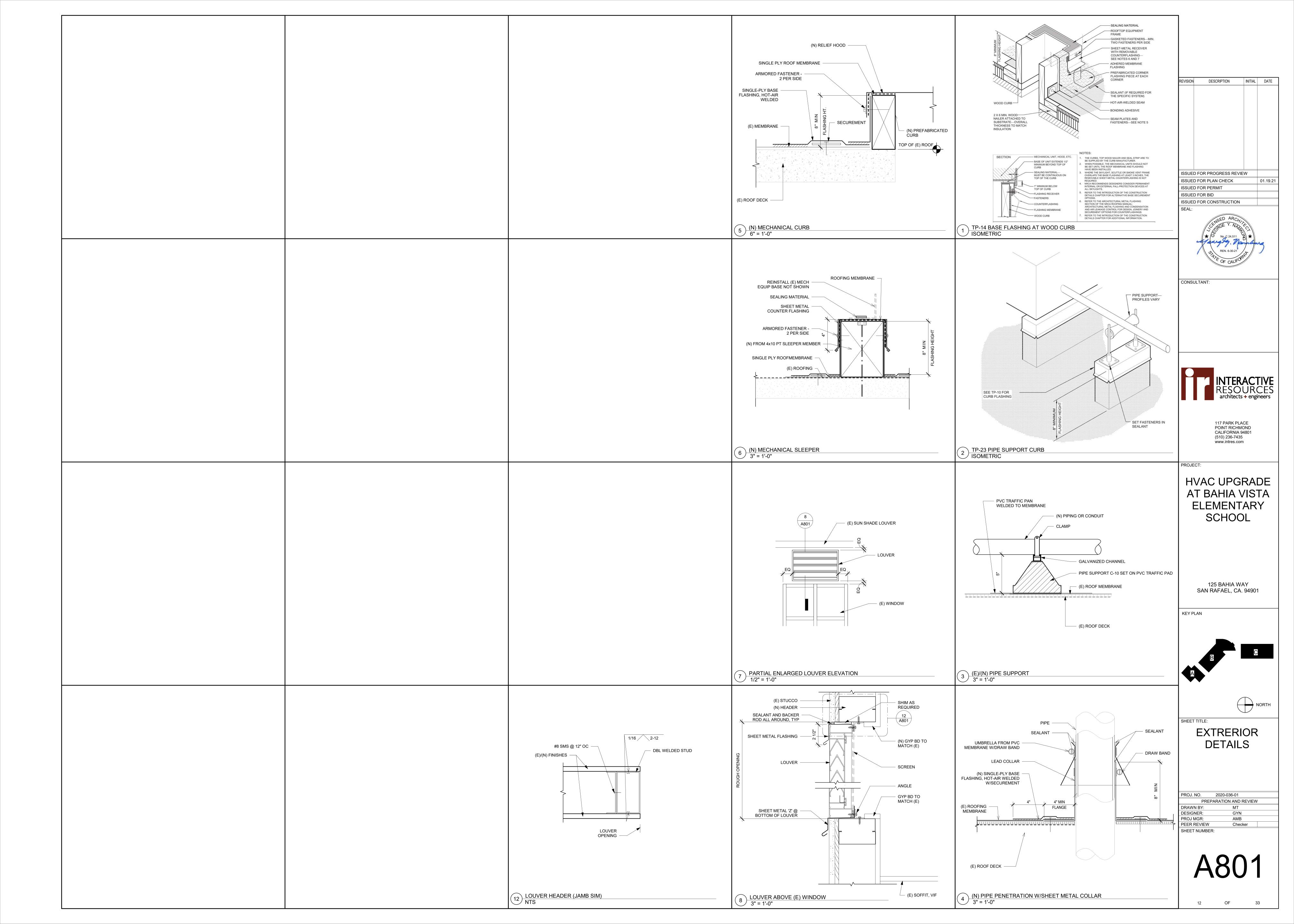
DESIGNER: GYN

PROJ MGR: AMB

PEER REVIEW Checker

SHEET NUMBER:

A301



GENERAL  00701 TYPICAL CONDITIONS: TYPICAL DETAILS APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY ELSEWHERE.  00702 SPECIFICATIONS SHALL GOVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL STRUCTURAL NOTES OR ON THE DRAWNINGS, WHERE REFERENCE IS MADE TO STANDARD SPECIFICATIONS, THE LATEST ADOPTED REVISIONS SHALL BE USED.  00703 SIMILARITY. IF CERTIAN FERTULISES ARE NOT FILLY SHOWN OR CALLED FOR ON THE DRAWNINGS OR ELSEWHERE AND THE PLAY SHOWN OR CALLED FOR ON THE DRAWNINGS OR GENERAL FROM THE PLAY SHOWN OR CALLED FOR ON THE DRAWNINGS OR GENERAL FOR CONTIONES:  00705 EXISTING CONDITIONS: CONTINUES THAT ARE SHOWN OR CALLED FOR.  00706 EXISTING CONDITIONS: THE NEW WORK SHOWN OR CALLED FOR.  00706 EXISTING CONDITIONS: THE NEW WORK SHOWN ON THE SHOWN OR CALLED FOR ON THE WORK SHOWN AN CONTINUES AND OR DETERMINE SHOWN OR SHOWN ON THE SHOWN OR SH	GENERAL  0701 TYPICAL CONDITIONS: TYPICAL DETAILS APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY ELSEWHERE.  0702 SPECIFICATIONS SHALL COVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL STRUCTURAL NOTES OR ON THE GRAWINGS, WHERE REFERENCE IS ANDE TO STANDARD SPECIFICATIONS. THE LIGHT ADDRESS HE DEVISIONS SHALL BE USED.  0703 SIMILARITY: IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE USED.  0704 SEXSTING CONDITIONS: OTHER SHALL REPECT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL NOTIFIC REPORT OF THE TOWN OR CALLED FOR.  0705 EXISTING CONDITIONS: SHALL NOTIFIC REPORT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL NOTIFIC REPORT OF THE TOWN OF CALLED FOR.  0706 EXISTING CONDITIONS: SHALL NOTIFIC REPORT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL NOTIFIC REPORT OF THE TOWN OF CALLED FOR.  0705 SUBMITTALE: EXISTING CONDITIONS: OTHER SHOWN OF CALLED FOR THE CONDITIONS WHICH CONTENT OF THE TOWN OF TH	CONFORM TO THE FOLLOWING, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED. ITEMS WITH CHECK BOXES APPLY IF CHECKED.
00701 TYPICAL CONDITIONS: TYPICAL DETAILS APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY ELISEWHERE.  00702 SPECIFICATIONS SHALL COVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL STRUCTURAL NOTES OR ON THE DRAWINGS, WHERE REFERENCE IS MADE TO STANDARD SPECIFICATIONS. THE LATES ADOPTED REVISIONS SHALL BE USED.  00703 SIMILARITY: IF CRETIAN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS. THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS. IF CRETICATION SHALL RESPOND OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS. THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS.  00705 EXISTING CONDITIONS: CONTRACTOR SHALL INSPECT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL NOTIFY ENGINEER OF ANY EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL NOTIFY ENGINEER OF ANY EXISTING CONDITIONS WHICH AFFECT THE WORK WITH THE WORK W	0701 TYPICAL CONDITIONS: TYPICAL DETAILS APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY ELSEWHERE.  0702 SPECIFICATIONS SHALL GOVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL STRUCTURAL NOTES OR ON THE GRAWINGS. WHERE REFERENCE IS MAGE TO STANDARD SPECIFICATIONS. THE LATEST ADOPTED REVISIONS SHALL BE USED.  0703 SIMILARITY: IF CIRCITATION FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS. THEAR CONSTRUCTIONS SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.  0705 EXISTING CONDITIONS: CONTRACTOR SHALL INSPECT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL HOTTP YEARINEET OF ANY EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL HOTTP YEARINEET OF ANY EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL HOTTP YEARINEET OF ANY EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL HOTTP YEARINEET OF ANY EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL HOTTP YEARINEET OF ANY EXISTING CONDITIONS WHICH CONTRACTOR WHITH THE OFFICE THE WORK SHOWN AN SHALL HOTTP YEARINET TWO COPPES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO CONTRACTOR SHOWN TWO COPPES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO CONTRACTOR SCENARIO THE YEARPONSIBLE FOR THE CONDUCT OF THE WORK INCLUDING THE CONTRACTOR SCENARIO THE YEARPONSIBLE FOR THE CONDUCT OF THE WORK INCLUDING THE CONTRACTOR SCENARIO THE YEARPONSIBLE FOR THE CONDUCT OF THE WORK INCLUDING ANTERCALLS FOR TEMPORARY VENTIOLA AND ATERALS WHO METHODS, DESIGN, AND ANTERCALLS FOR TEMPORARY VENTIOLA AND ATERALS SHOWN ON THE CONSTRUCTION ASCET 15 MININGLO GODE, 2019 EDITION. ASCET 15 MININGLO ADDITION TO COPIES OF SERVATION VISITS SHALL NOT BE INTERPRETED AS A REVIEW CONTRACT ONE SASETY WAS ADDITION.  1000 EXCENTION OF THE SHALL HAVE ADDITION TO THE FORD THE FORD THE FORD THE FORD THE SHALL HAVE ADDITION.  1010 DESIGN CATEGORY OF THE SHALL HAVE ADDITION TO THE FORD THE SHALL HAVE ADDITION.  1010 DESIGN CATEGORY OF THE SHALL HAVE ADDITION TO THE FORD THE SHALL HAVE ADDITION.	
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THE SPECIFICATIONS SHALL GOVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL STRUCTURAL NOTES OR ON THE DRAWINGS, WHERE REFERENCE IS MADE TO STANDARD SPECIFICATIONS, THE LATEST ADDPTED REVISIONS SHALL BE USED.  ### OF CONTRACTIONS THE CONTROLLED FOR CONTROLLED FOR CONTRACTIONS. THE CONTROLLED FOR CONTROLLED FOR CONTROLLED SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR CONTROLLED SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.  ### OF THE CONTROLLED SHALL SHOWN OR CALLED FOR CONTROLLED SHALL IN THE WORK SHOWN AND SHALL NOTE YEAR CHARACTER OF ANY EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AND SHALL NOTE YEAR CHARACTER SHALL MADE CONTROLLED SHOWN ON THE NEW WORK SHOWN. CONTRACTOR SHALL NOT PROCEED WITH THE WORK LINTLI THESE CONTROLLS ANDIOR DIFFERENCES ARE RESOLVED.  ### OF THE NEW WORK SHOWN. CONTRACTOR SHALL NOT PROCEED WITH THE WORK LINTLI THESE CONTROLLS ANDIOR DIFFERENCES ARE RESOLVED.  ### OF THE NEW WORK SHOWN. CONTROLLED SHALL NOT PROCEED WITH THE WORK LINTLI THESE CONTROLLS AND SHOWN OF REVIEW SHALL HAVE CONTRACTOR'S APPROVAL AND DATE INDICATED CEACH COPP. SUBMIT TWO COPIES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO CONTRACTOR.  ### OF THE OWN OF THE CONTROLL OF THE WORK LINTLI THESE CONTROLLS AND SHALL NOT DESIRED TO BE RETURNED TO CONTRACTOR SHALL NOT SHOWN OF THE CONDUCT OF THE WORK LINCLIDES. CONTRACTOR WETHER AND LATERAL SHOWN ON THE CONTROLL OF THE WORK LINCLIDES. CONTRACTOR SHALL MAD LATERAL SHOWN ON THE CONTROLL OF THE WORK LINCLIDES. CONTRACTOR'S SHALL MAD LATERAL SHOWN ON THE CONSTRUCTIONS OF THE MASSINGS.  ### OF THE OWN OF THE CONTROLL OF THE WORK LINCLIDES. CONTRACTOR'S SHALL MAD LATERAL SHOWN ON THE CONSTRUCTION.  ### OF THE OWN OF THE ADDITION.  ### OWN OF THE OWN OF THE CONTROLL O	THE SPECIFICATIONS SHALL GOVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL STRUCTURAL NOTES OR ON THE DRAWINGS, WHERE REFERENCE IS MADE TO STANDARD SPECIFICATIONS, THE LATEST ADDPTED REVISIONS SHALL BE USED.  **OPTOS SIMILARITY**  IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.  **OPTOS EXENTION CONDITIONS**  CONTRACTOR SHALL INSPECT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL NOTIFY EMBINEER OF ANY EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AN SHALL NOTIFY EMBINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH OR DIFFER FRO THE NEW WORK SHOWN. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THESE CONFLICTS AND/OR DIFFERENCES ARE RESOLVED.  **OPTOS SUBMITTALS**  THEN SUBMITTED FOR REVIEW SHALL HAVE CONTRACTOR'S APPROVAL AND DATE INDICATED C EACH COPY. SUBMIT TWO COPIES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO CONTRACTOR.  ***OTOT BRACING AND SHORING**  THE CONTRACTOR.  ***OTOT BRACING AND SHORING**  THE CONTRACTOR OF THE CONDITION METHODS AND PROCEDURES'S SITE SAFETY. AND METHODS, DESIGN, AND MATERIALS FOR TEMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES. ENGINEERS SITE OBSERVATION VISITS SHALL NOT BE INTERPRETED AS A REVEW CONTRACTOR'S APPROVAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES. ENGINEERS SITE OBSERVATION VISITS SHALL NOT BE INTERPRETED AS A REVEW CONTRACTOR'S APPROVAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES.  **OTOT CONTRACTOR'S APPROVALED AND LATERAL SHOWN ON THE CONSTRUCTION DOCUMENTS.**  **JORD COMPANDA SACTUAL IN-PLACE WEIGHTS OF MATERIALS SHOWN ON THE CONSTRUCTION DOCUMENTS.**  **JORD COMPANDA SACTUAL IN-PLACE WEIGHTS OF MATERIALS SHOWN ON THE CONSTRUCTION DOCUMENTS.**  **JORD CONTRACTOR SHALL BE PROVIDED FOR THE FOLLOWING SHALL SHAPE OF THE PROVIDED SHALL SHAPE OF THE SHALL SHAPE OF	ELSEWHERE.
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GENERAL NOTES 01071 ABBREVIATIONS AND SYMBOLS: OLLOWING, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE HDR ANCHOR BOLT HEADER VITH CHECK BOXES APPLY IF CHECKED. HORIZ ALTERNATE HORIZONTAL ARCH ARCHITECT(URAL) HSB HIGH STRENGTH BOLT INFORMATION BLDG BUILDING INTERIOR PPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY BLKG BLOCKING JOINT BEAM ANGLE **BOUNDARY NAIL** MAXIMUM S SHALL GOVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL BOT BOTTOM MACHINE BOLT S OR ON THE DRAWINGS. WHERE REFERENCE IS MADE TO STANDARD CBC CALIFORNIA BUILDING CODE MANUFACTURER HE LATEST ADOPTED REVISIONS SHALL BE USED. CENTER-TO-CENTER MINIMUM CONSTRUCTION JOINT NEW RES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR CL CENTERLINE HEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR NOT APPLICABLE CLR CLEAR ARE SHOWN OR CALLED FOR. NUMBER CMU CONCRETE MASONRY UNIT **NEAR SIDE** IDITIONS: COL COLUMN L INSPECT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AND NTS NOT TO SCALE CONC CONCRETE SINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH OR DIFFER FROM OC ON CENTER CONN CONNECTION OWN. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THESE OPP OPPOSITE DIFFERENCES ARE RESOLVED. CONT CONTINUOUS OWSJ OPEN WEB STEEL JOIST COMPLETE PENETRATION PARA PARALLEL FOR REVIEW SHALL HAVE CONTRACTOR'S APPROVAL AND DATE INDICATED ON TWO COPIES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO PERP PERPENDICULAR PLATE DOUBLE PLATE NAIL SHORING: S COMPLETELY RESPONSIBLE FOR THE CONDUCT OF THE WORK, INCLUDING PRESSURE TREAT I METHODS AND PROCEDURES; SITE SAFETY; AND METHODS, DESIGN, AND PLYWOOD EMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW DETAIL REINF REINFORCEMENT INEER'S SITE OBSERVATION VISITS SHALL NOT BE INTERPRETED AS A REVIEW OF DIAMETER FETY MEASURES. REQD REQUIRED **EXISTING** SAD SEE ARCH. DRAWINGS EACH DING CODE, 2019 EDITION. SCHED SCHEDULE **EACH FACE** UM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER SIM SIMILAR EJ EXPANSION JOINT SOG SLAB-ON-GRADE ELEV **ELEVATION** SQ SQUARE **EMBED EMBEDMENT** AL IN-PLACE WEIGHTS OF MATERIALS SHOWN ON THE CONSTRUCTION SLRS SEISMIC RESISTING ΕN **EDGE NAIL** LOAD SYSTEM EACH SIDE SS ED PER CBC): STAINLESS STEEL EW **EACH WAY** 20 PSF STRUCT STRUCTURAL EXP **EXPANSION** 17.2 PSF SYM SYMMETRICAL **EXTERIOR** 91 MPH T&B TOP AND BOTTOM FOUNDATION FDN TONGUE AND GROOVE 0.956 FINISHED FLOOR TOC 1.00 TOP OF CONCRETE **FULL LENGTH** 0.85 TOS TOP OF STEEL FIELD NAIL 0.997 TOT TOTAL FOC FACE OF CONCRETE ΓEGORY D TYP TYPICAL FOS FACE OF STUD UON UNLESS OTHERWISE NOTED FAR SIDE VERT VERTICAL FTG FOOTING  $\Omega_0 = 2.0$ GALV VIF VERIFY IN FIELD GALVANIZED WITH GALVANIZED IRON W/O WITHOUT GLB GLUE-LAMINATED BEAM AULT WORKING POINT GSN GENERAL STRUCTURAL NOTES SIZE OF REINFORCING BAR GWB GYPSUM WALLBOARD HOLD-DOWN AT (SPACING) 05120 STRUCTURAL STEEL 05121 MATERIALS: WIDE FLANGE COLUMNS: ASTM A992, Fy = 50 KSI WIDE FLANGE SECTIONS: ASTM A572 GRADE 50 OTHER STRUCTURAL STEEL: ASTM A572 GRADE 50 TECTURAL AND STRUCTURAL REQUIREMENTS. NOTIFY THE GUSSET PLATES AT BRACED FRAMES -ASTM A572, Fy = 50 KSI EER AND ARCHITECT OF ANY CONFLICTS AND DO NOT - ASTM A500, GRADE B, Fy = 46 KSI STEEL TUBING: ----WORK UNTIL CONFLICTS ARE RESOLVED. ASTM A53, GRADE B, Fy = 35 KSI BOLTS: -ASTM A307 HIGH STRENGTH BOLTS: N SHALL BE PROVIDED PER CBC SECTION 1701A FOR THE ASTM A325SC

ANCHOR BOLTS:

SPECIFICATIONS.

06000 ROUGH CARPENTRY

06101 FRAMING LUMBER:

05123 WELDING:

05122 FABRICATION AND ERECTION:

STRUCTURAL STEEL BUILDINGS," DECEMBER 2005.

BETTER, UNLESS OTHERWISE NOTED.

LUMBER TO BE FREE OF HEART CENTER.

MAXIMUM MOISTURE CONTENT IN 2x MEMBERS:------

PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATIONS FOR

CERTIFIED WELDERS. CONFORM TO THE CURRENT AWS CODE AND AISC ASD

PER AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEEL (ANSI/AWS D1.1);"

• LUMBER GRADING TO CONFORM TO UBC STANDARD 23-1. FRAMING SHALL BE DF-L NO. 2 OR

DESCRIPTION

ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK

ISSUED FOR CONSTRUCTION

STRUCTURAL

**ISSUED FOR PERMIT** 

ISSUED FOR BID

CONSULTANT:

INITIAL DATE

117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 www.intres.com

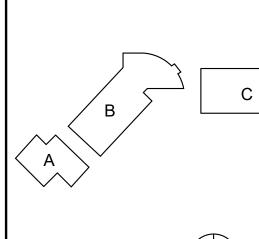
PROJECT:

F1554 GRADE VARIES

**HVAC UPGRADE** AT BAHIA VISTA ELEMENTARY SCHOOL

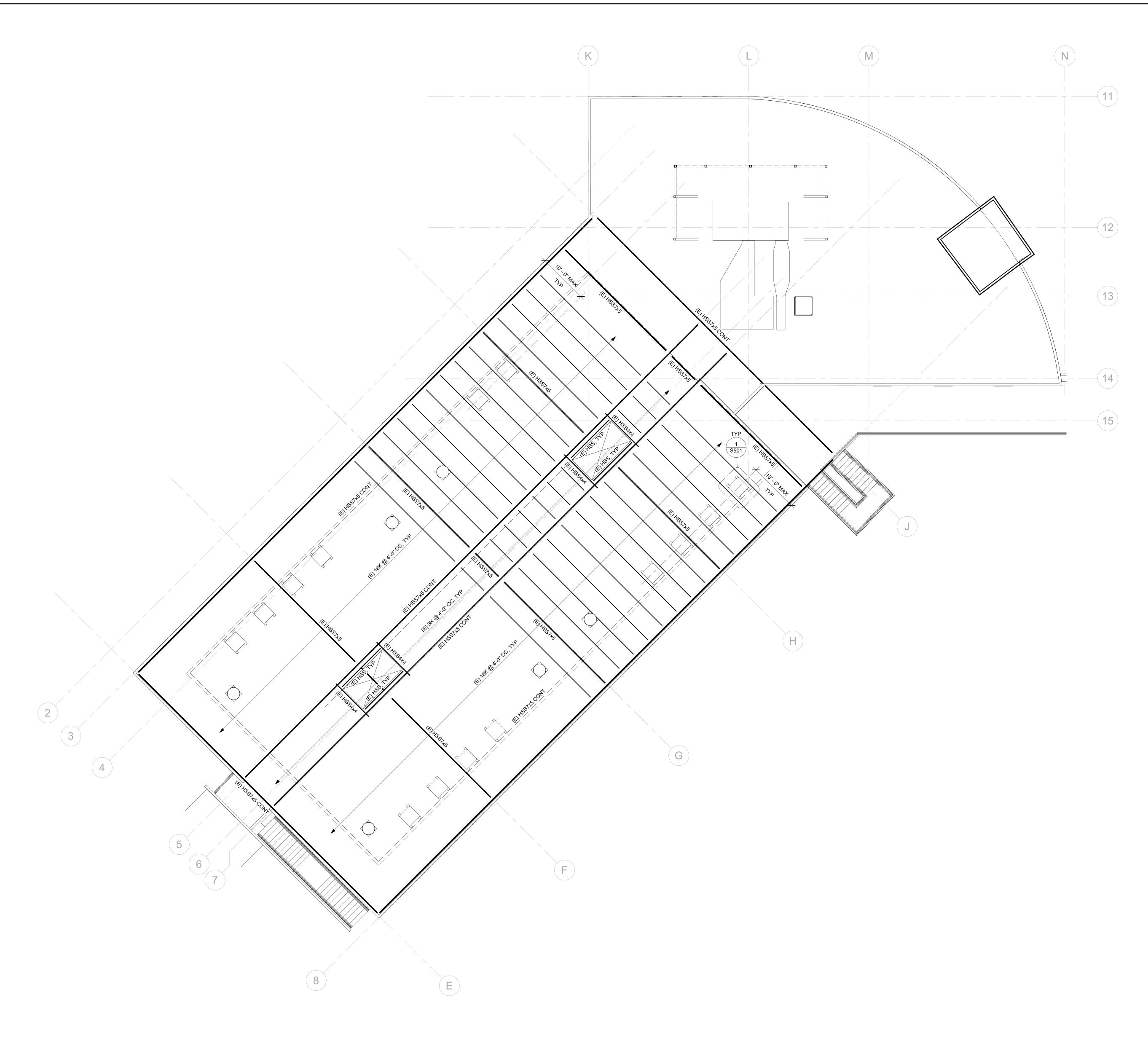
> 125 BAHIA WAY SAN RAFAEL, CA. 94901

**KEY PLAN** 



SHEET TITLE: STRUCTURAL

PROJ. NO. 2020-036-01 PREPARATION AND REVIEW PROJ MGR: PEER REVIEW Checker SHEET NUMBER:

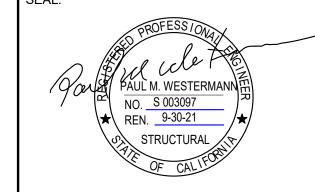


1 ROOF FRAMING PLAN BUILDING B 1/8" = 1'-0"

REVISION DESCRIPTION INITIAL DATE

ISSUED FOR PROGRESS REVIEW ISSUED FOR PLAN CHECK ISSUED FOR PERMIT

ISSUED FOR BID ISSUED FOR CONSTRUCTION



CONSULTANT:

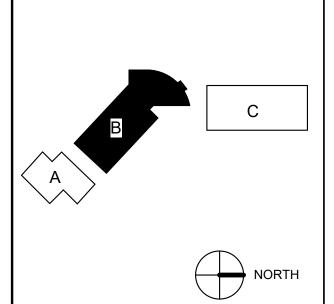


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HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN

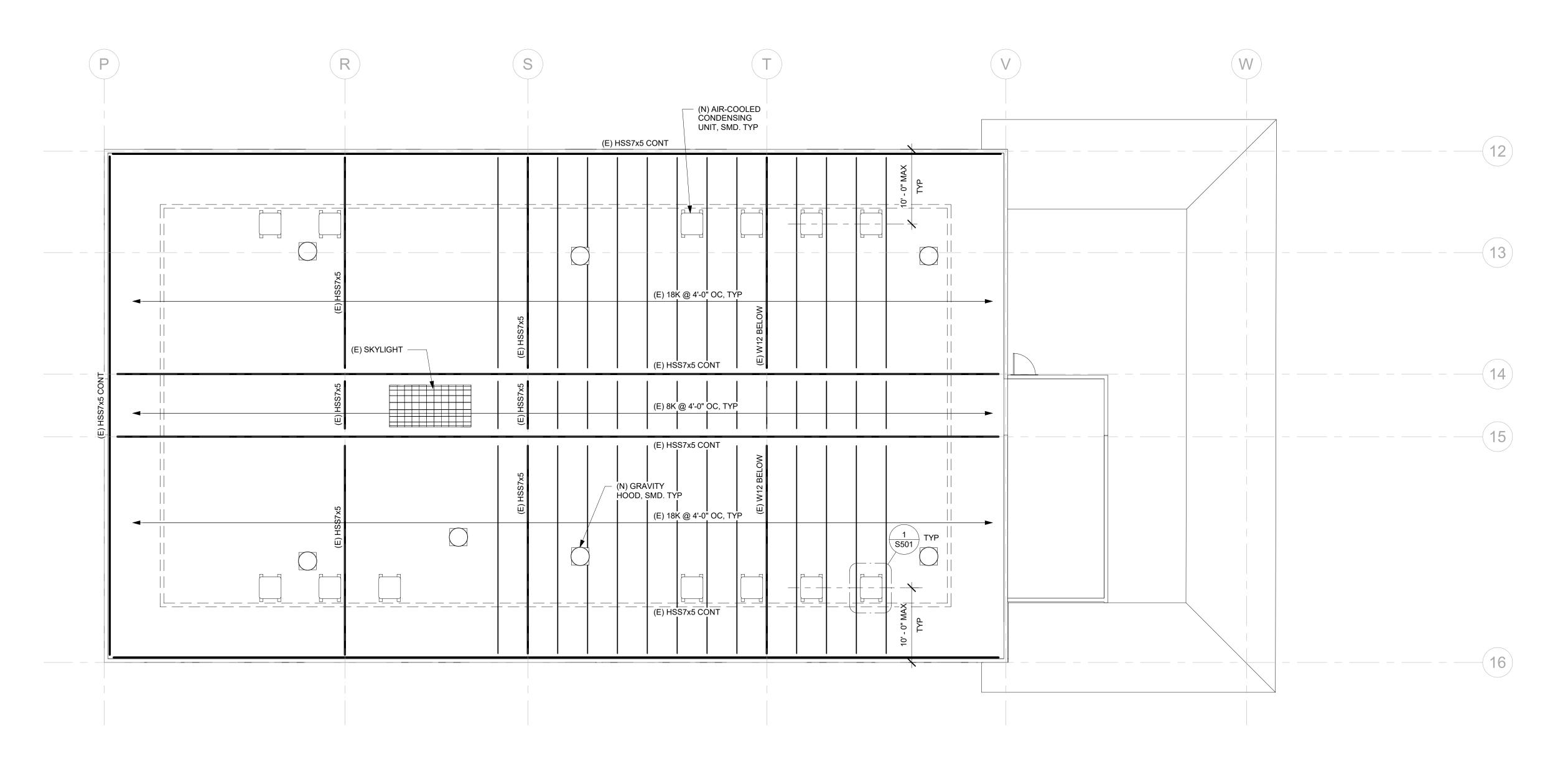


SHEET TITLE:

ROOF FRAMING PLAN BUILDING B

PROJ. NO. 2020-036-01 PREPARATION AND REVIEW Designer AMB DESIGNER: PROJ MGR: PEER REVIEW Checker

SHEET NUMBER:



1 ROOF FRAMING PLAN BUILDING C 1/8" = 1'-0" REVISION DESCRIPTION INITIAL DATE

ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK 01.19
ISSUED FOR PERMIT
ISSUED FOR BID



CONSULTANT:



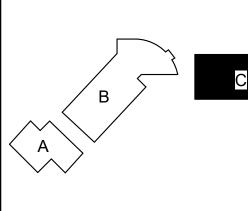
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PROJECT:

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN





ROOF FRAMING PLAN BUILDING C

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: Author

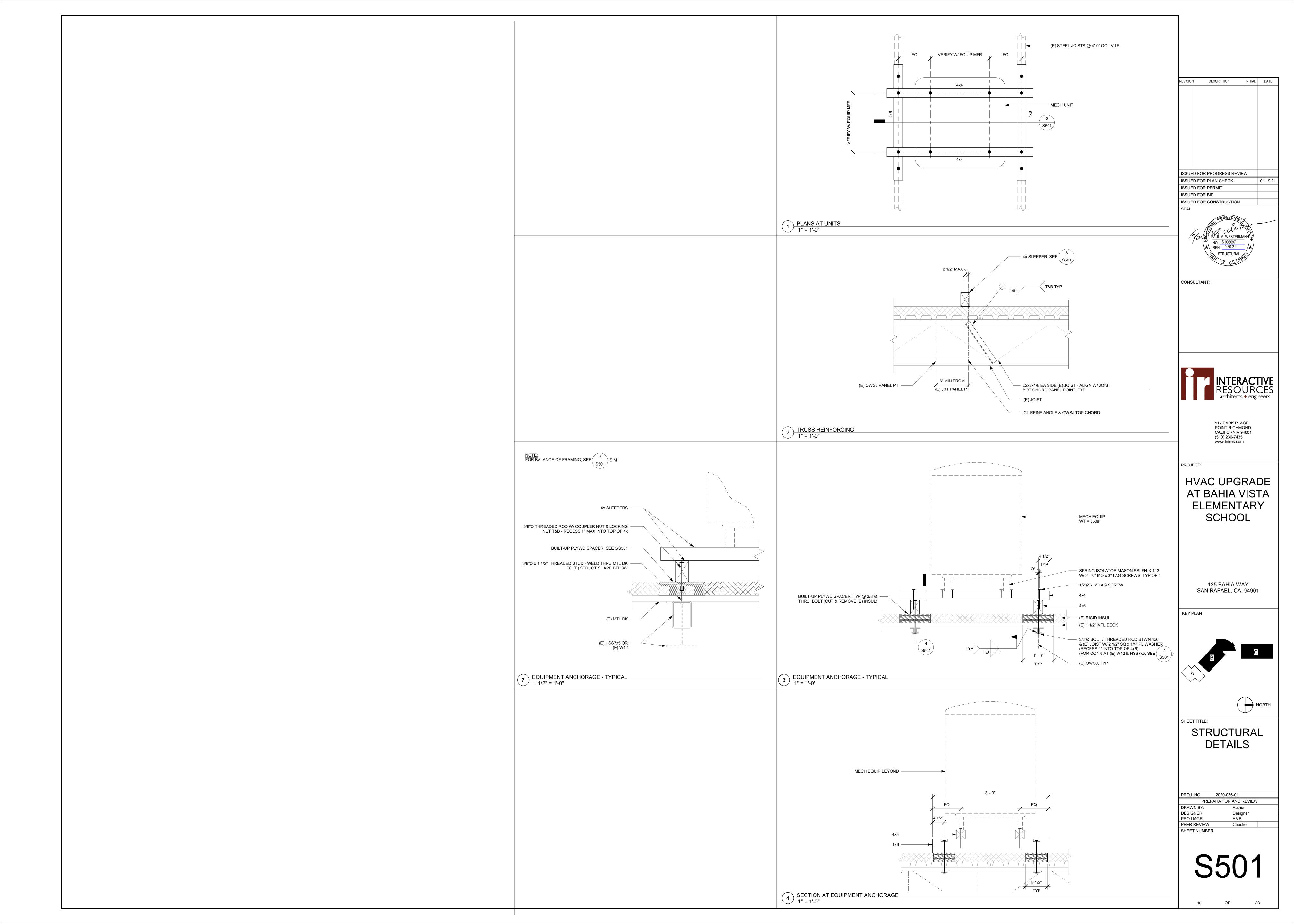
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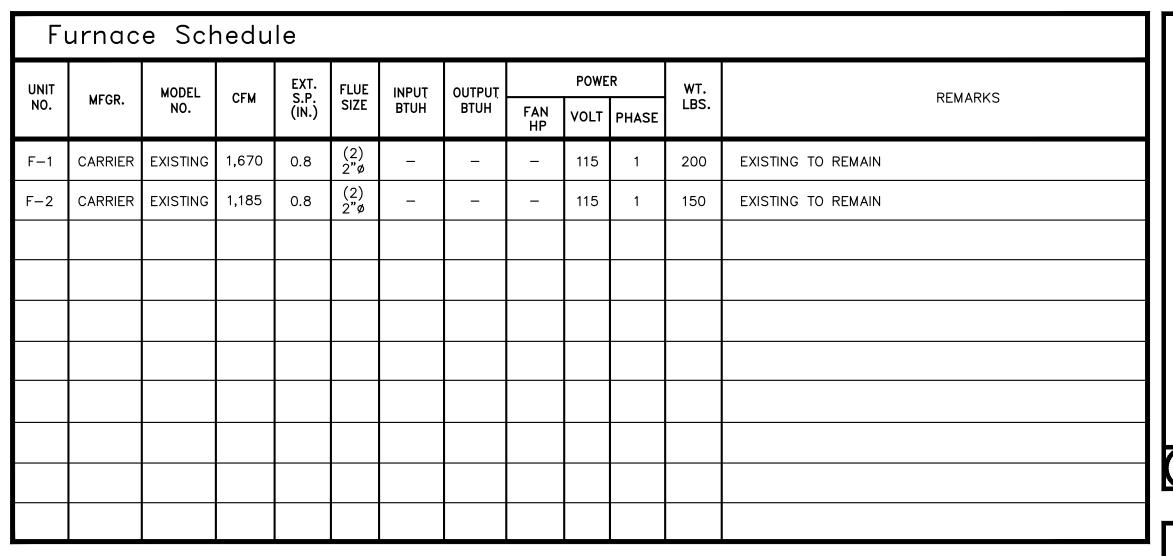
PROJ MGR: AMB

PEER REVIEW Checker

SHEET NUMBER:

S209





SECURE FAN TO BASE WITH		<del>-</del>	RELIEF HOOD
3/8 ø X 2 1/2" BOLTS WITH LEAD WASHERS, 2 PER SIDE ON VERTICAL EDGE —————			3/8"ø X 3" BOLTS, TWO PER S
			——— BASE FLASHING
PREFABRICATED CURB			—— (E) ROOFING, SEE ARCHITECTURA SHEETS FOR WATERPROOFING DE
CUT ROOF AND			BOLT CURB TO WOOD BLOCKIN WITH 3/8"ø X 3" BOLTS, 24"0
FRAME AROUND WITH 2 X WOOD FRAMING ————————————————————————————————————	/_1_		——— BACK DRAFT DAMPER. BOLT CURB

(2) Detail — Relief Hood Support NOT TO SCAL

MECHANICAL EQUIPMENT

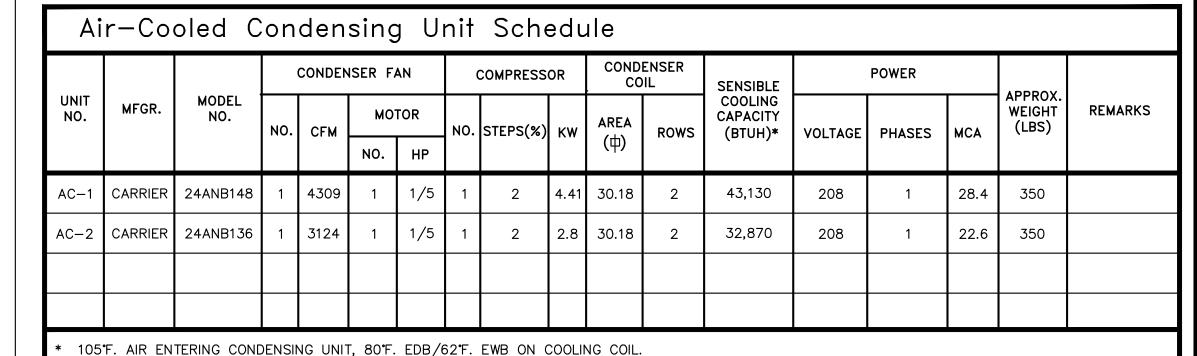
- MASON SSLFH-X-113 SPRING

FOR CONDENSING UNIT

ATTACHMENT DETAILS

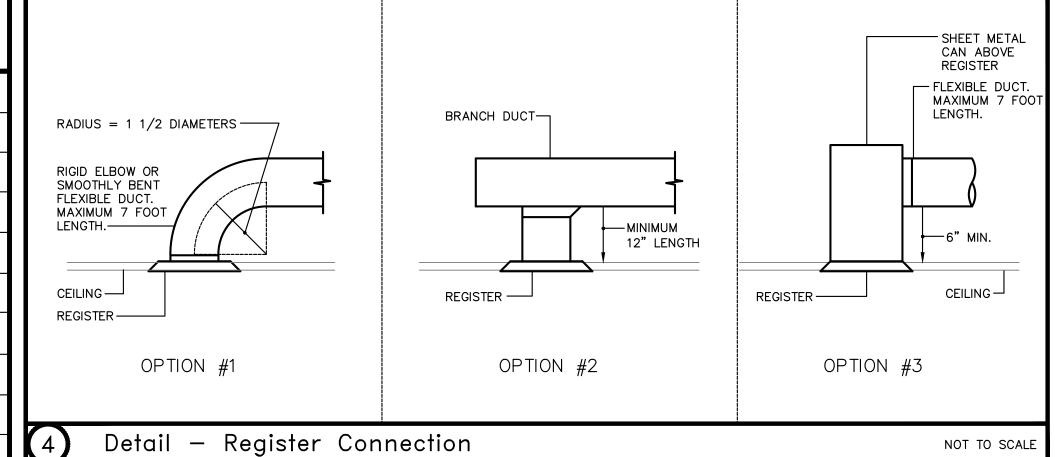
SEE STRUCTURAL DETAIL 3/S501

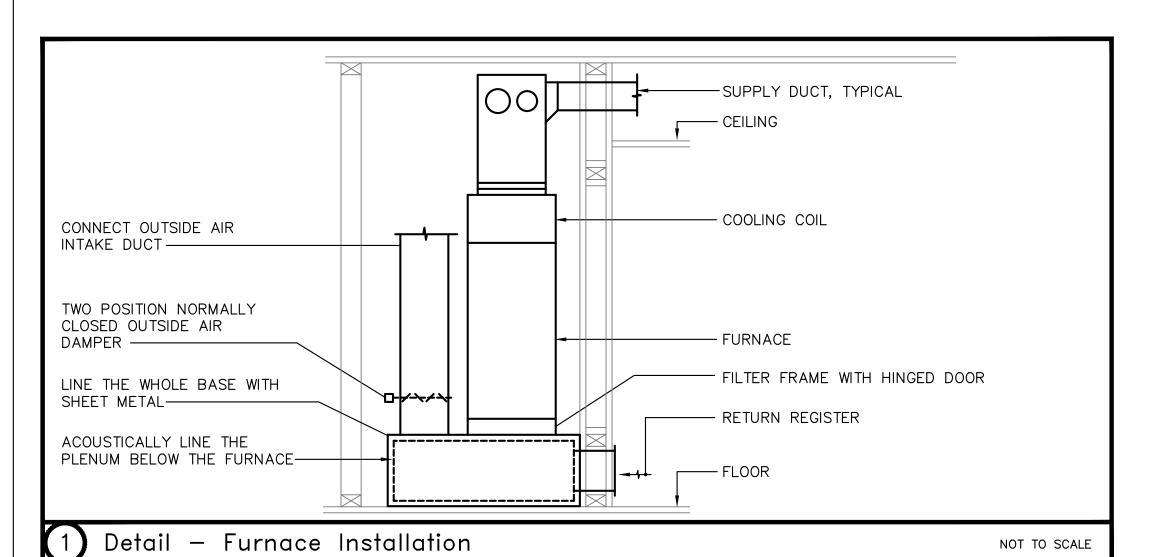
ISOLATOR x4

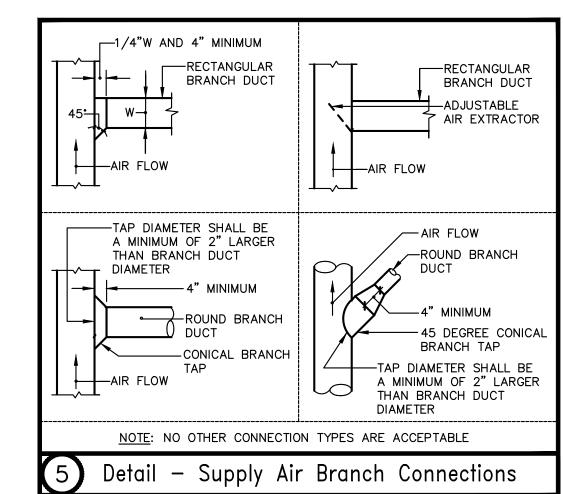


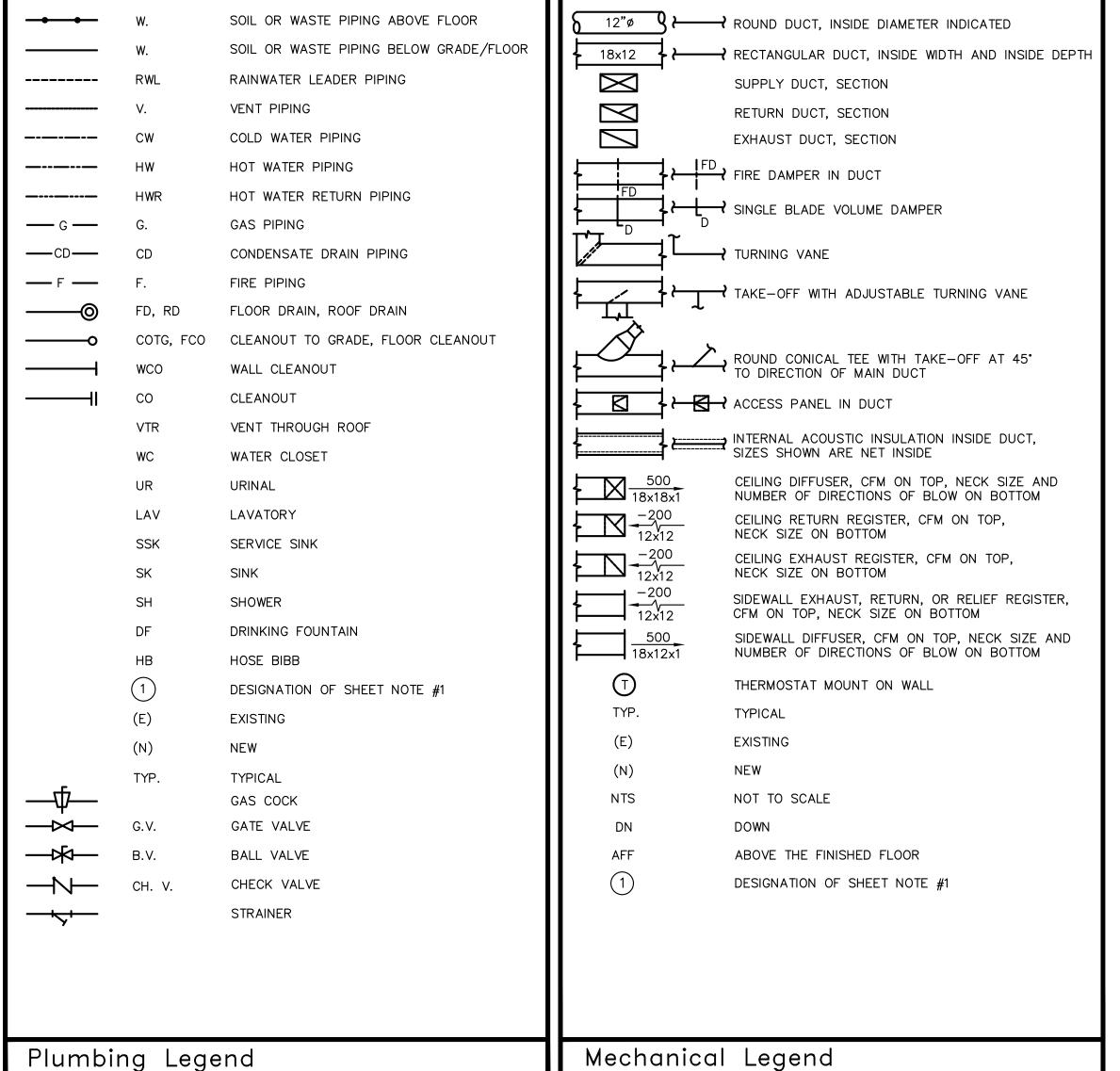
3) Detail — Equipment Support On Roof

#### Gravity Hood Schedule APPROX. WEIGHT FAN NO. S.P. INTAKE NECK AIR FLOW DIRECTION MODEL NO. CFM REMARKS COOK 16X16GR -1670 0.038 4.33 16"X16" | RELIEF 125 WITH BACKDRAFT DAMPER COOK -1200 0.021 4.66 12"X18" RELIEF WITH BACKDRAFT DAMPER









Bracing Note

NOT TO SCALE

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THEDETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

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.

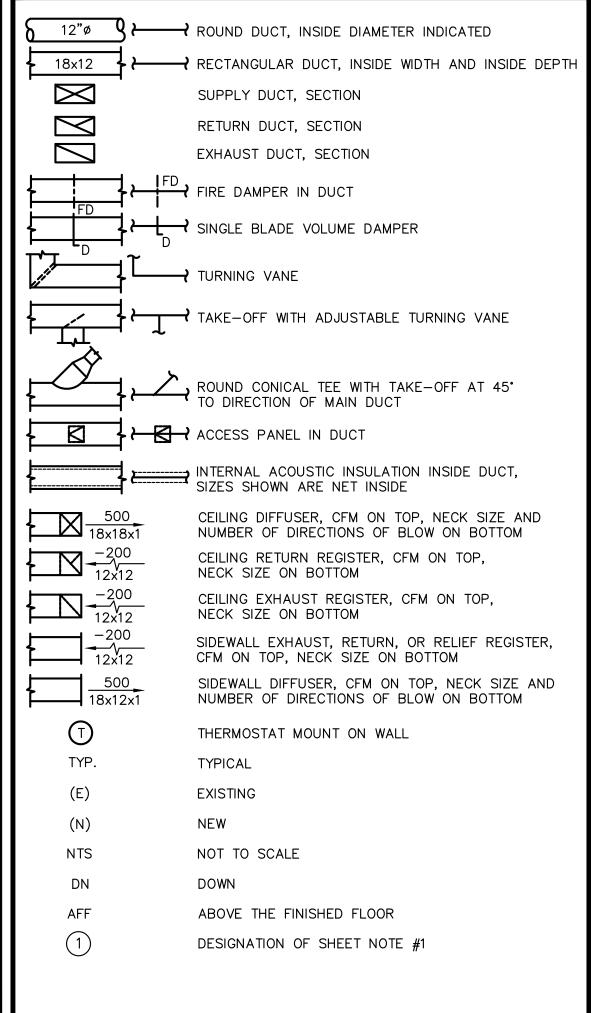
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 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 PREAPPROVED INSTALLATION GUIDE (eg,; 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 BERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

THE BRACING AND ATTACHMETNS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM#).



REVISION DESCRIPTION INITIAL DATE ISSUED FOR PROGRESS REVIEW ISSUED FOR PLAN CHECK ISSUED FOR PERMIT ISSUED FOR BID ISSUED FOR CONSTRUCTION

Exp. 7 M 37725

CONSULTANT:



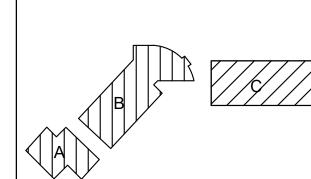


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PROJECT:

HVAC UPGRADE AT BAHIA VISTA **ELEMENTARY** SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901



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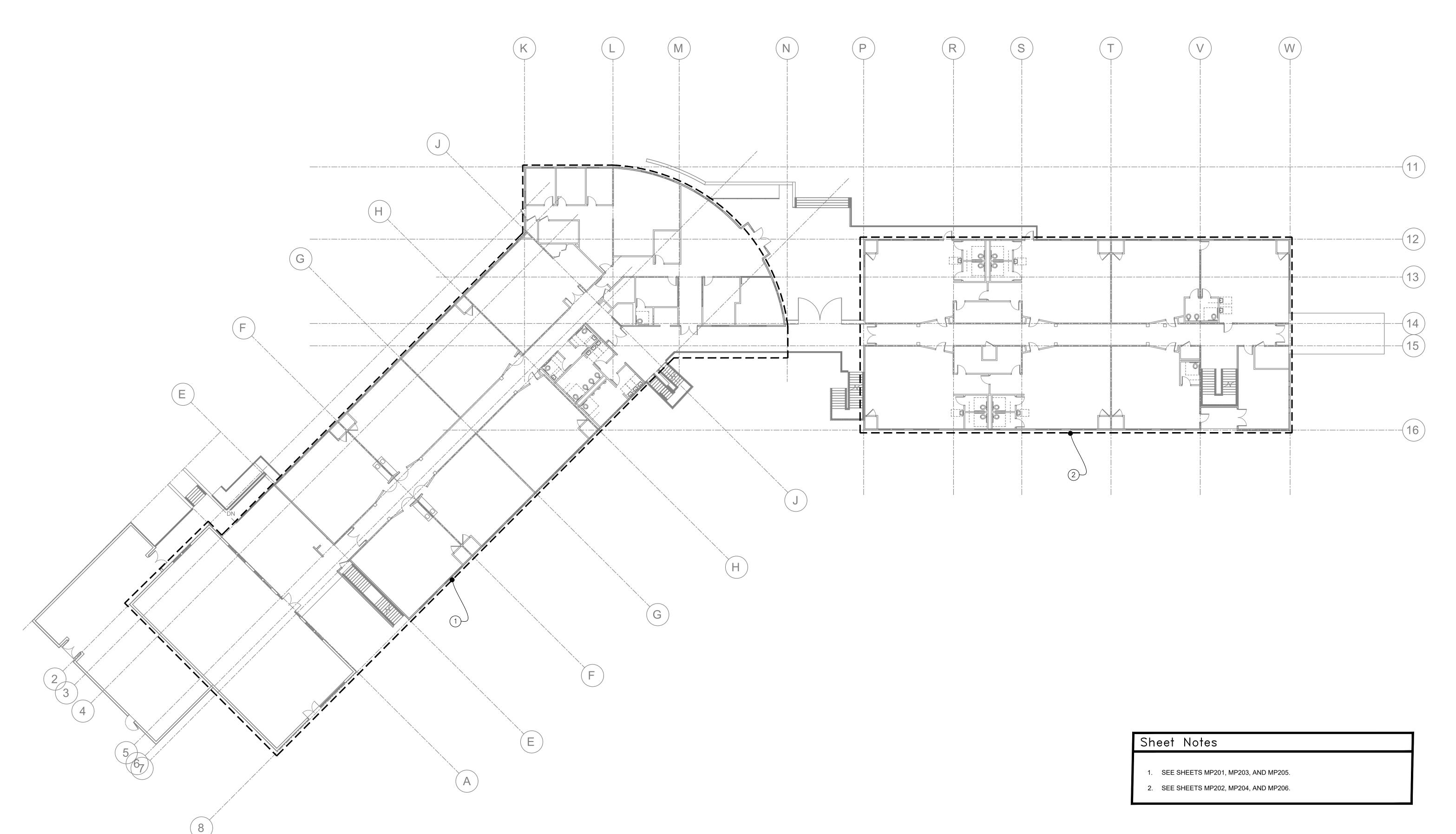
**MECHANICAL** AND PLUMBING SCHEDULES AND LEGENDS

PROJ. NO. PREPARATION AND REVIEW DESIGNER: PROJ MGR:

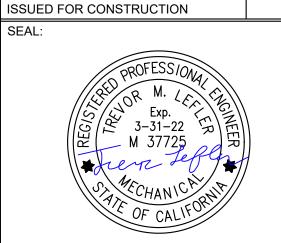
PEER REVIEW

SHEET NUMBER:





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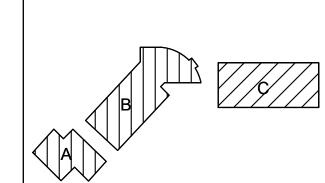




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HVAC UPGRADE AT BAHIA VISTA **ELEMENTARY** SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901



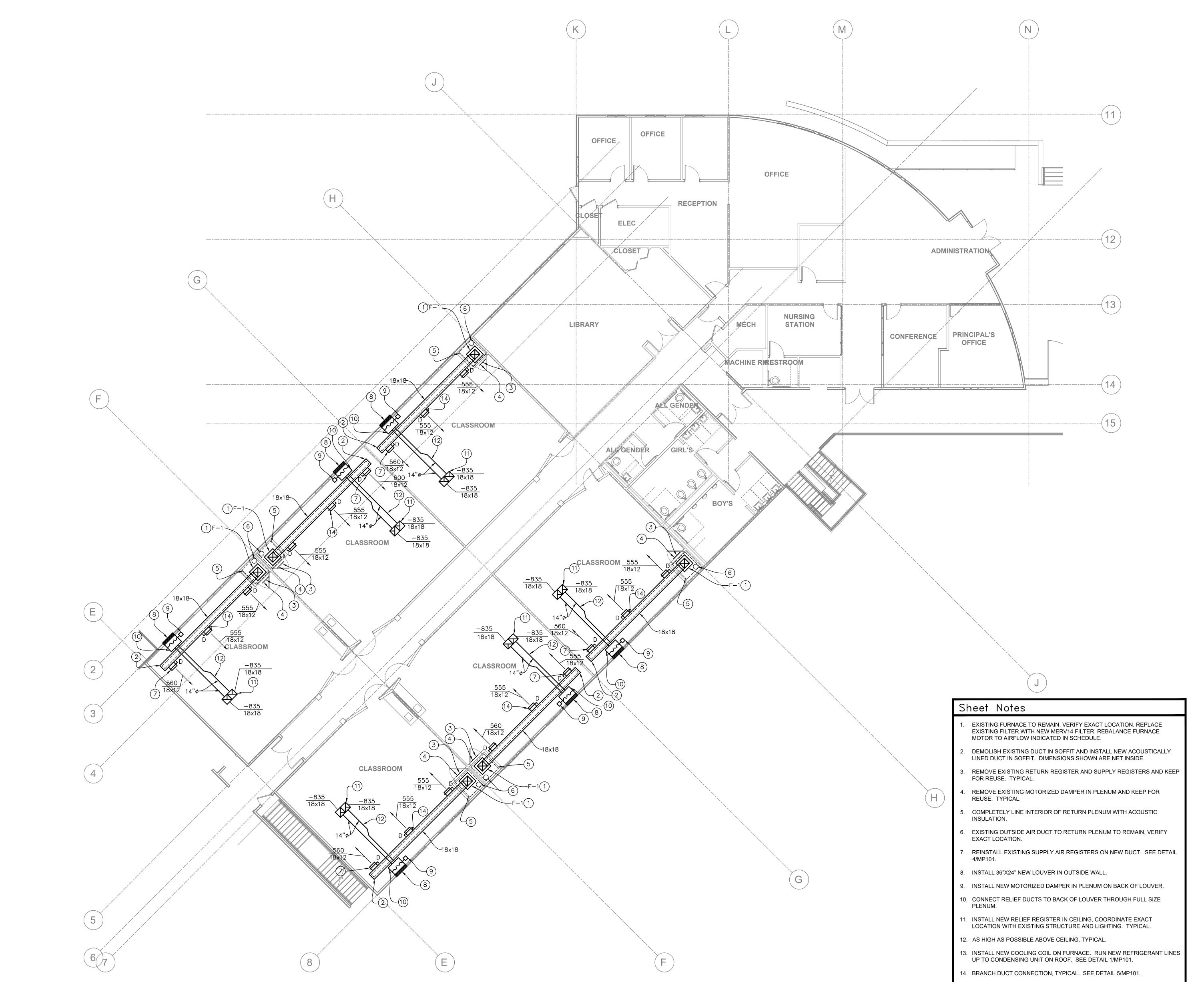


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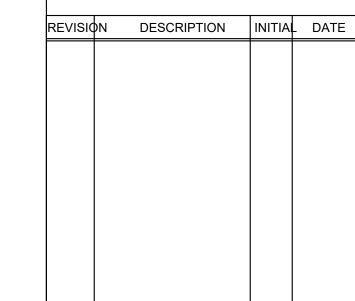
MECHANICAL AND PLUMBING SITE PLAN

PROJ. NO. PREPARATION AND REVIEW

DESIGNER:
PROJ MGR:
PEER REVIEW SHEET NUMBER:







ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK
ISSUED FOR PERMIT

ISSUED FOR BID

SEAL:

PROFESSION

Exp.

3-31-22

M 37725

M 37725

CONSULTAN





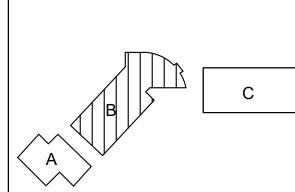
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PROJECT

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN





SHEET TITLE:

SHEET NUMBER:

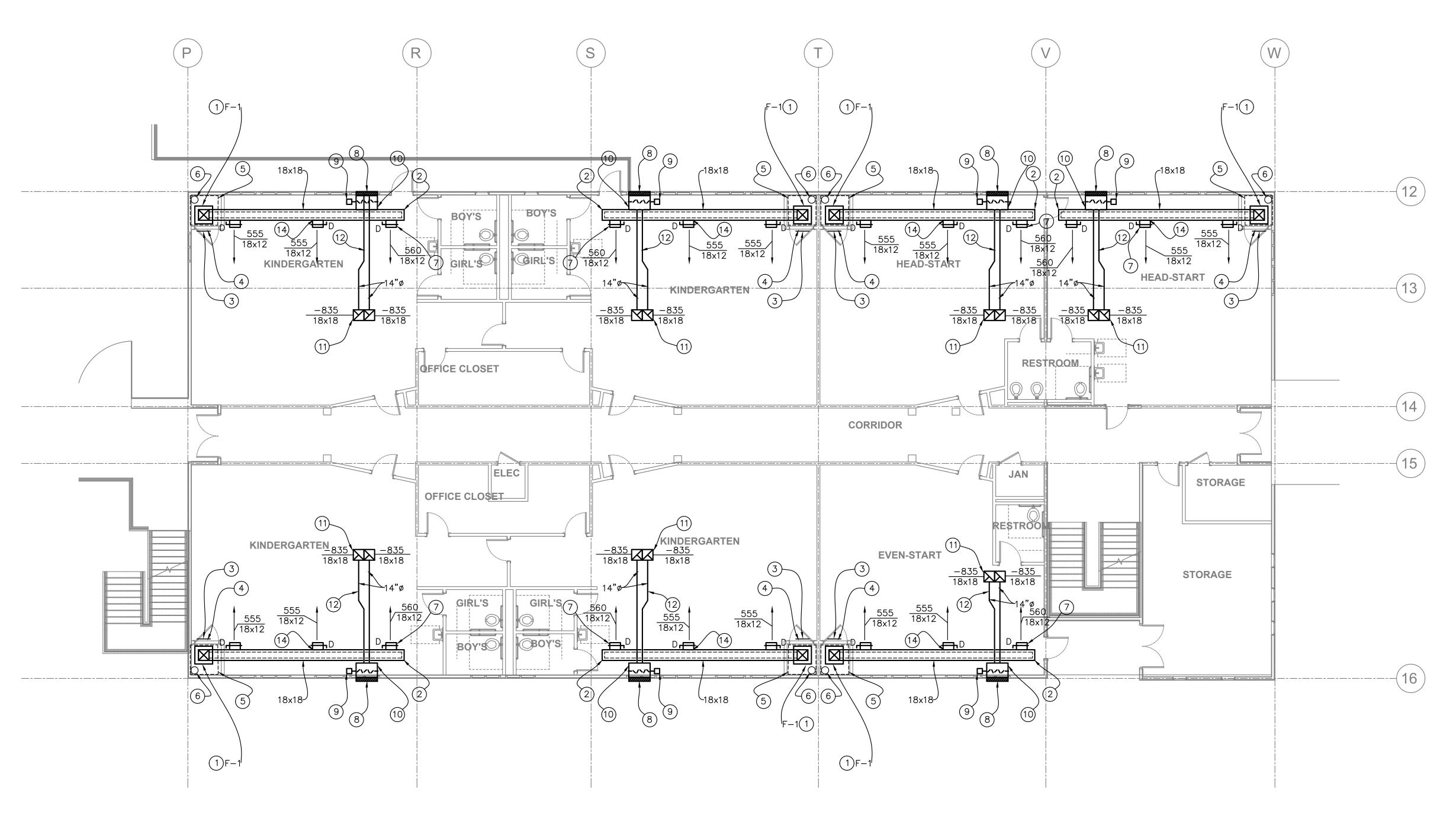
MECHANICAL
AND PLUMBING
BUILDING B
LEVEL 1 FLOOR

PROJ. NO.

PREPARATION AND REVIEW

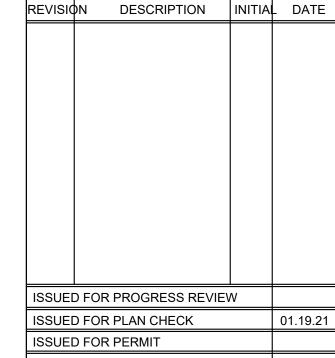
DRAWN BY:
DESIGNER:
PROJ MGR:
PEER REVIEW

MP201



## Sheet Notes

- EXISTING FURNACE TO REMAIN. VERIFY EXACT LOCATION. REPLACE EXISTING FILTER WITH NEW MERV14 FILTER. REBALANCE FURNACE MOTOR TO AIRFLOW INDICATED IN SCHEDULE.
- DEMOLISH EXISTING DUCT IN SOFFIT AND INSTALL NEW ACOUSTICALLY LINED DUCT IN SOFFIT. DIMENSIONS SHOWN ARE NET INSIDE.
- REMOVE EXISTING RETURN REGISTER AND SUPPLY REGISTERS AND KEEP FOR REUSE. TYPICAL.
- REMOVE EXISTING MOTORIZED DAMPER IN PLENUM AND KEEP FOR
- REUSE. TYPICAL.
- COMPLETELY LINE INTERIOR OF RETURN PLENUM WITH ACOUSTIC INSULATION.
- 6. EXISTING OUTSIDE AIR DUCT TO RETURN PLENUM TO REMAIN, VERIFY EXACT LOCATION.
- REINSTALL EXISTING SUPPLY AIR REGISTERS ON NEW DUCT. SEE DETAIL 4/MP101.
- 8. INSTALL 36"X24" NEW LOUVER IN OUTSIDE WALL.
- 9. INSTALL NEW MOTORIZED DAMPER IN PLENUM ON BACK OF LOUVER.
- 10. CONNECT RELIEF DUCTS TO BACK OF LOUVER THROUGH FULL SIZE
- PLENUM.
- 11. INSTALL NEW RELIEF REGISTER IN CEILING, COORDINATE EXACT LOCATION WITH EXISTING STRUCTURE AND LIGHTING. TYPICAL.
- 12. AS HIGH AS POSSIBLE ABOVE CEILING, TYPICAL.
- 13. INSTALL NEW COOLING COIL ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 1/MP101.
- 14. BRANCH DUCT CONNECTION, TYPICAL. SEE DETAIL 5/MP101.



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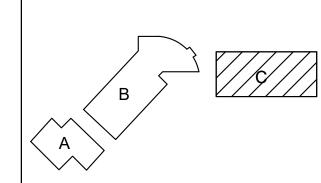


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**HVAC UPGRADE** AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN



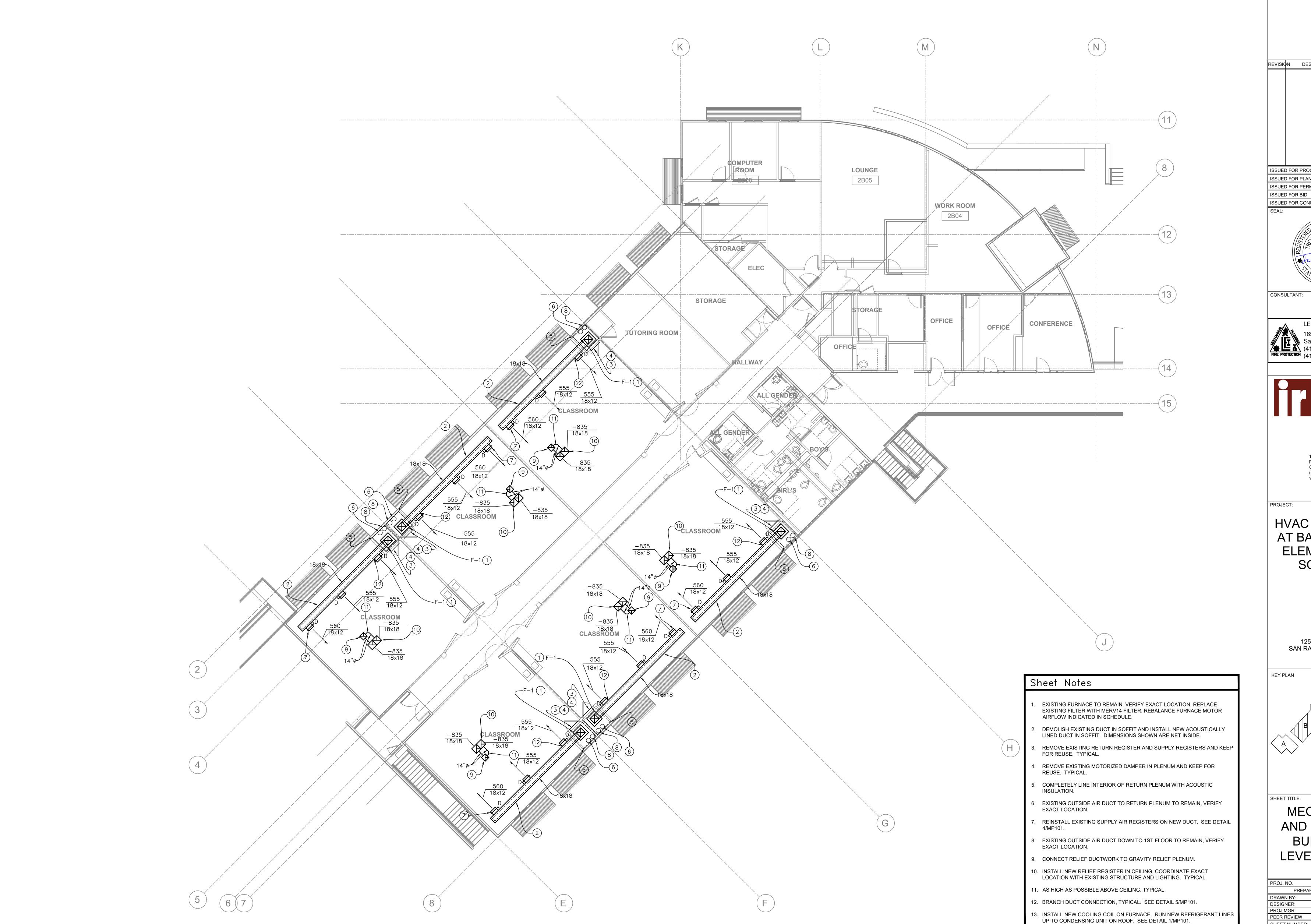
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MECHANICAL AND PLUMBING BUILDING C LEVEL 1 FLOOR

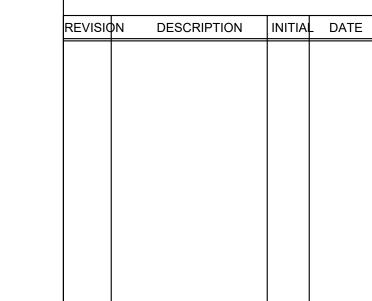
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DESIGNER: PROJ MGR: PEER REVIEW

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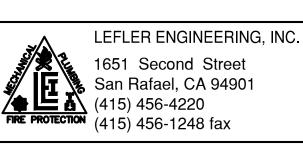




ISSUED FOR PROGRESS REVIEW ISSUED FOR PLAN CHECK 01.19.21 ISSUED FOR PERMIT

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CONSULTANT:



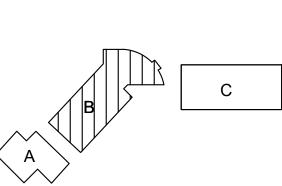


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**HVAC UPGRADE** AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN

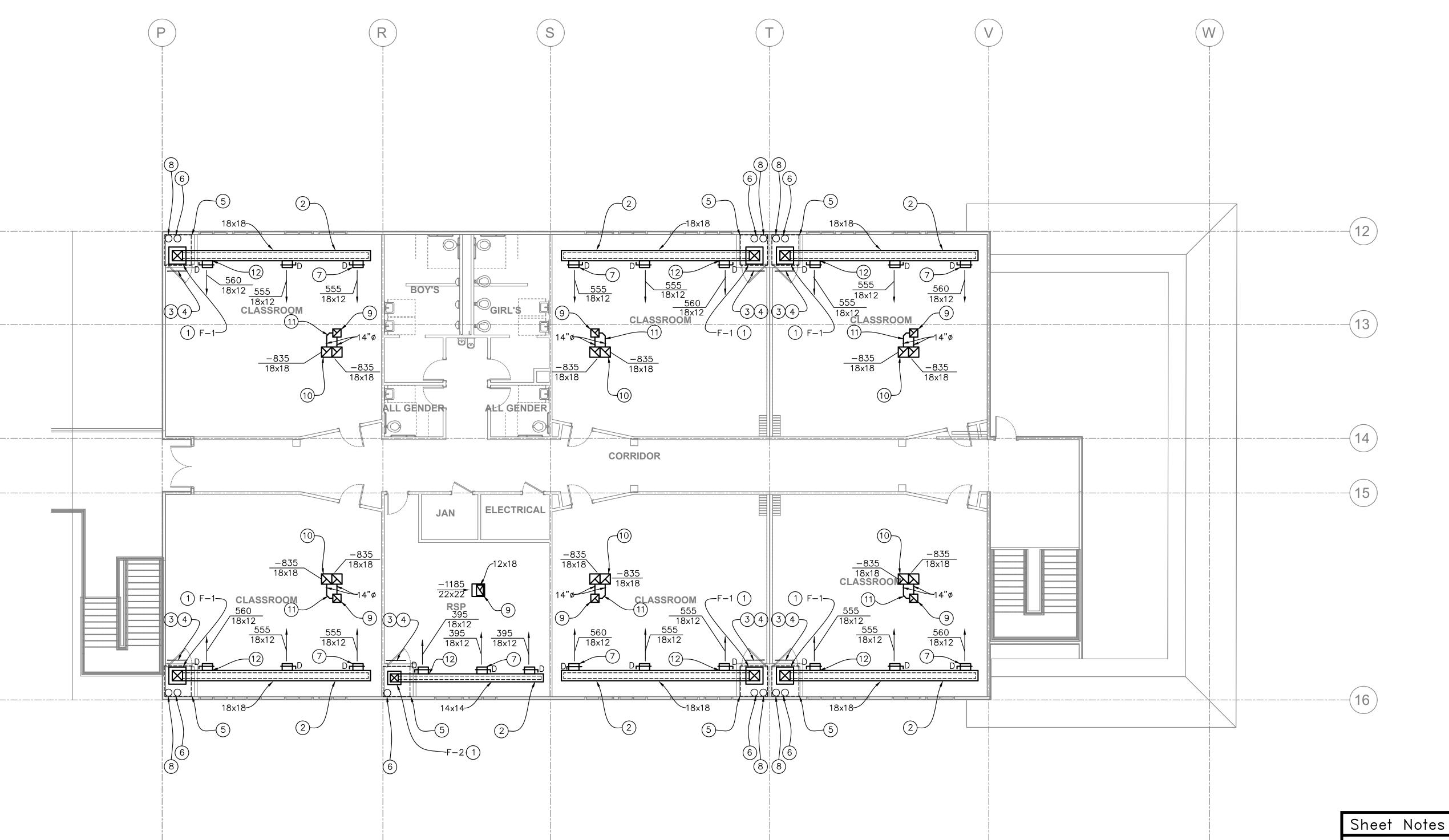


SHEET TITLE:

MECHANICAL AND PLUMBING BUILDING B LEVEL 2 FLOOR

PLAN PROJ. NO. PREPARATION AND REVIEW

DESIGNER: PROJ MGR: PEER REVIEW SHEET NUMBER:

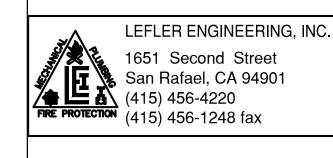


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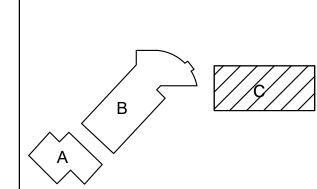


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**HVAC UPGRADE** AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN





SHEET TITLE:

MECHANICAL AND PLUMBING BUILDING C LEVEL 2 FLOOR

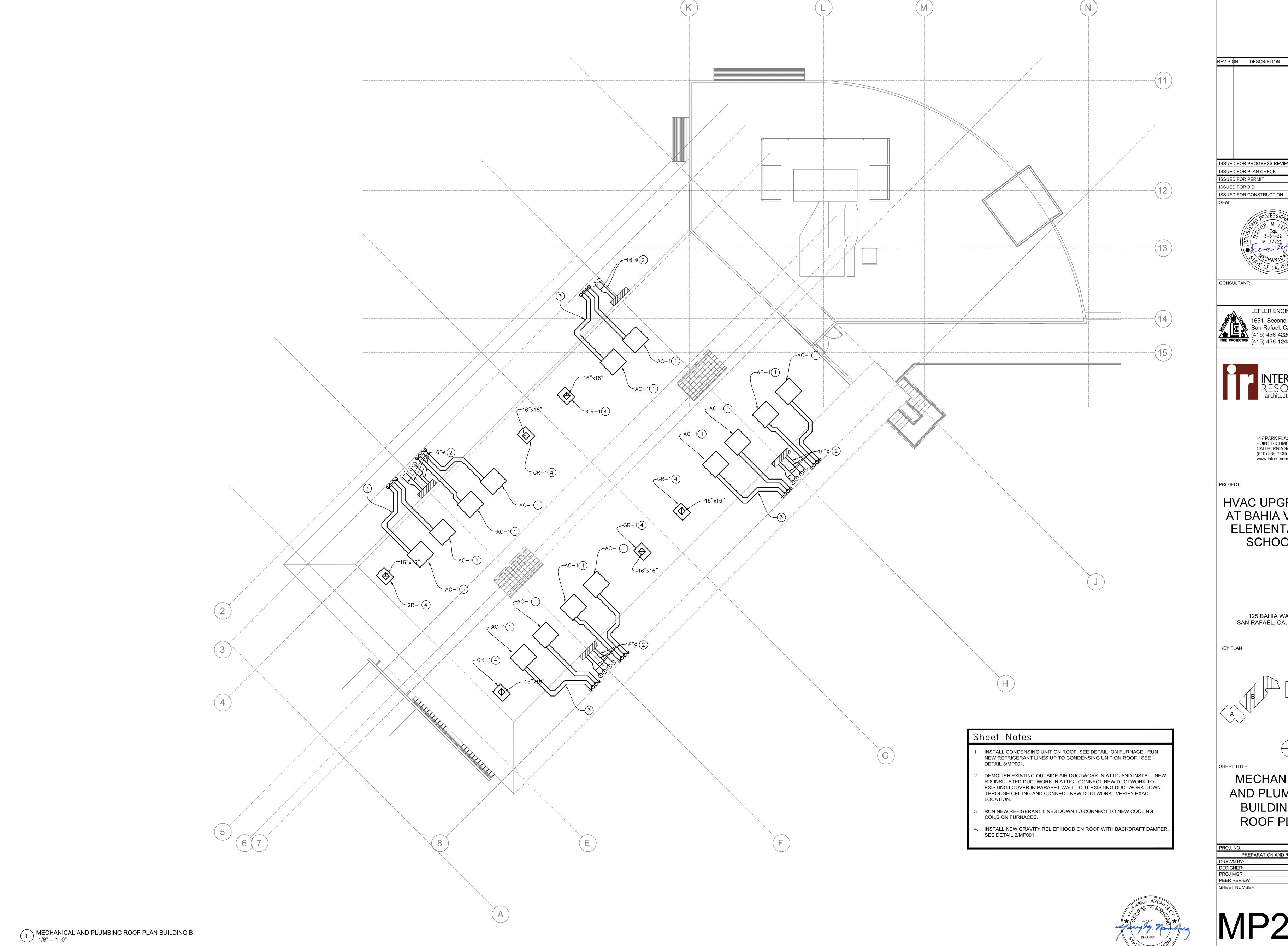
PLAN PROJ. NO. PREPARATION AND REVIEW

DESIGNER: PROJ MGR: PEER REVIEW SHEET NUMBER:

23 OF 34

FOR REUSE. TYPICAL.

- EXISTING FURNACE TO REMAIN. VERIFY EXACT LOCATION. REPLACE EXISTING FILTER WITH NEW MERV14 FILTER. REBALANCE FURNACE MOTOR TO AIRFLOW INDICATED IN SCHEDULE.
- DEMOLISH EXISTING DUCT IN SOFFIT AND INSTALL NEW ACOUSTICALLY LINED DUCT IN SOFFIT. DIMENSIONS SHOWN ARE NET INSIDE.
- REMOVE EXISTING RETURN REGISTER AND SUPPLY REGISTERS AND KEEP
- REMOVE EXISTING MOTORIZED DAMPER IN PLENUM AND KEEP FOR REUSE. TYPICAL.
- . COMPLETELY LINE INTERIOR OF RETURN PLENUM WITH ACOUSTIC INSULATION.
- EXISTING OUTSIDE AIR DUCT TO RETURN PLENUM TO REMAIN, VERIFY EXACT LOCATION.
- REINSTALL EXISTING SUPPLY AIR REGISTERS ON NEW DUCT. SEE DETAIL 4/MP101.
- EXISTING OUTSIDE AIR DUCT DOWN TO 1ST FLOOR TO REMAIN, VERIFY EXACT LOCATION.
- 9. CONNECT RELIEF DUCTWORK TO GRAVITY RELIEF PLENUM.
- 10. INSTALL NEW RELIEF REGISTER IN CEILING, COORDINATE EXACT LOCATION WITH EXISTING STRUCTURE AND LIGHTING. TYPICAL.
- 11. AS HIGH AS POSSIBLE ABOVE CEILING, TYPICAL.
- 12. BRANCH DUCT CONNECTION, TYPICAL. SEE DETAIL 5/MP101.
- 13. INSTALL NEW COOLING COIL ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 1/MP101.



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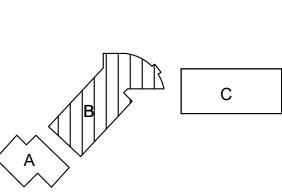




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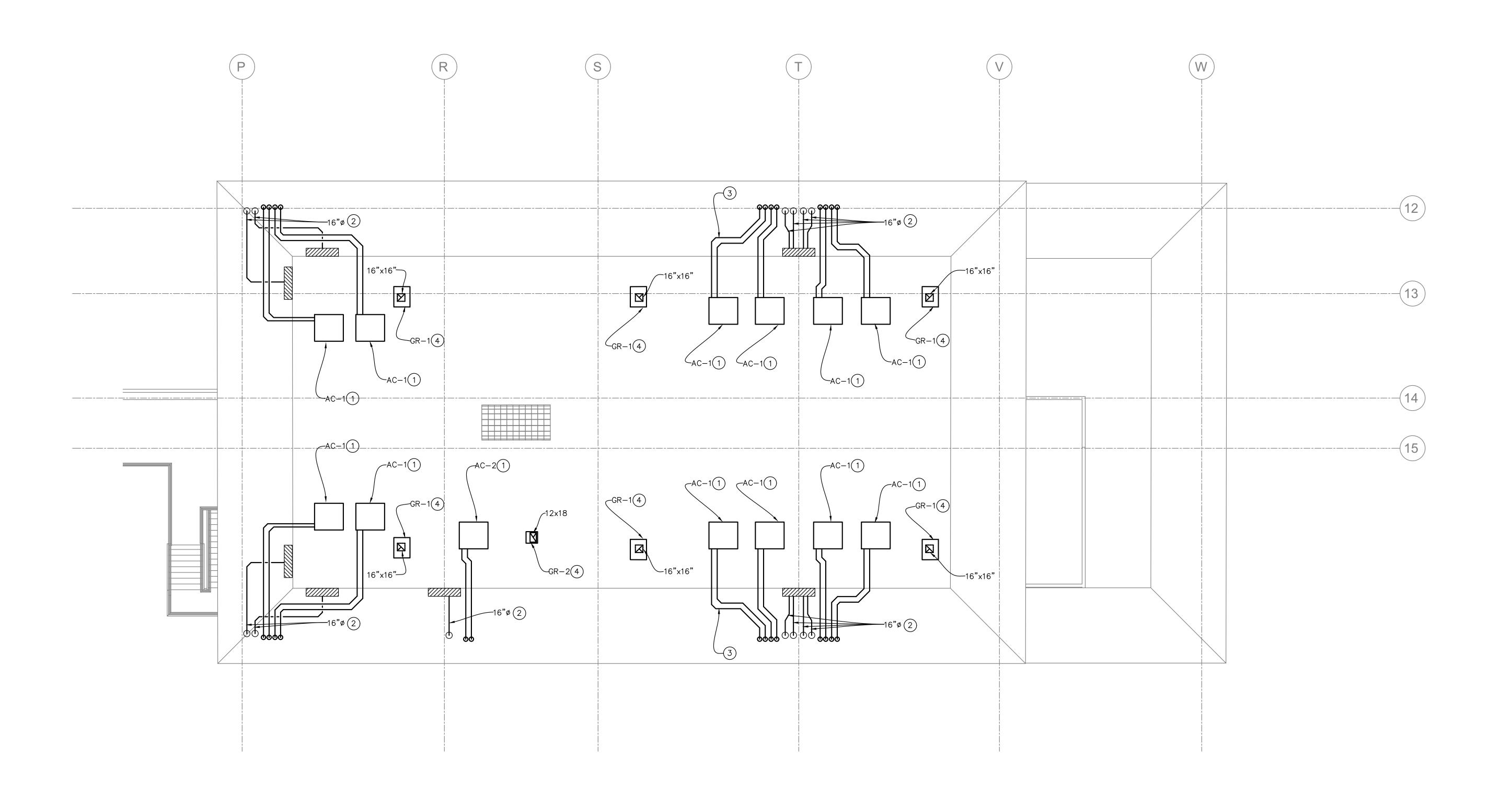
125 BAHIA WAY SAN RAFAEL, CA. 94901



SHEET TITLE:

MECHANICAL AND PLUMBING **BUILDING B** 

PREPARATION AND REVIEW DESIGNER: PROJ MGR: PEER REVIEW SHEET NUMBER:



#### Sheet Notes

- INSTALL CONDENSING UNIT ON ROOF, SEE DETAIL ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 3/MP001.
- DEMOLISH EXISTING OUTSIDE AIR DUCTWORK IN ATTIC AND INSTALL NEW R-8 INSULATED DUCTWORK IN ATTIC. CONNECT NEW DUCTWORK TO EXISTING LOUVER IN PARAPET WALL. CUT EXISTING DUCTWORK DOWN THROUGH CEILING AND CONNECT NEW DUCTWORK. VERIFY EXACT LOCATION.
- RUN NEW REFIGERANT LINES DOWN TO CONNECT TO NEW COOLING COILS ON FURNACES.
- 4. INSTALL NEW GRAVITY RELIEF HOOD ON ROOF WITH BACKDRAFT DAMPER, SEE DETAIL 2/MP001.

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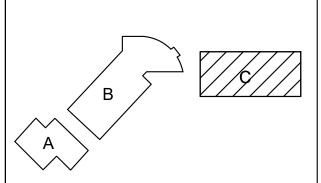
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PROJE

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PI





SHEET TITLE:

MECHANICAL AND PLUMBING BUILDING C ROOF PLAN

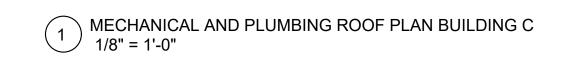
PROJ. NO.

PREPARATION AND REVIEW

DRAWN BY:

DRAWN BY:
DESIGNER:
PROJ MGR:
PEER REVIEW
SHEET NUMBER:







## **MDSA**

DIVISION OF THE STATE ARCHITECT

**Mechanical Systems** 

YES NO

CERTIFICATE OF COMPLIANCE

Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-MCH-04-A Air Distribution Duct Leakage

(CO2) concentration setpoints.

NRCA-MCH-07-A Supply Fan Variable Flow Controls

NRCA-MCH-09-A Supply Water Temperature Reset Controls

NRCA-MCH-10-A Hydronic System Variable Flow Controls

NRCA-MCH-11-A Automatic Demand Shed Controls

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

NRCA-MCH-05-A Air Economizer Controls

O NRCA-MCH-08-A Valve Leakage Test

title24/2019standards/2019 compliance documents/Nonresidential Documents/NRCA

Project Address: 125 Bahia Way, San Rafael, CA 94901

STATE OF CALIFORNIA

#### 2019 ENERGY CODE - CERTIFICATES OF COMPLIANCE CHECKLIST

PRESCRIPTIVE METHOD (for Performance Method, use Form DSA 403-B)

PURPOSE This checklist identifies the 2019 California Energy Code Certificates of Compliance to be submitted with the Plans as part of the plan review process for Prescriptive Compliance. Not all Certificates of Compliance on this checklist may be applicable to the submitted project.

INSTRUCTIONS Check the appropriate boxes for all required forms pertaining to the submittal. All required information and mandatory measures must be specified in the plans, and all copies of the Certificates of Compliance required for the Project must be submitted in PDF form and a copy of the Certificates of Compliance must be provided in the Plans. The Certificates of Compliance are dynamic and expand or collapse based on the

For all conditioned buildings pursuing the Prescriptive Method, the following forms are required: Commissioning (CXR), Envelope (ENV), Mechanical (MCH), Indoor Lighting (LTI), Outdoor Lighting (LTO), Electrical Power Distribution (ELC), and Solar Ready (SRA). Plumbing (PLB) is required for each water heater specified in the Project. NRCC-LTS-E is required if internally illuminated or externally illuminated signs are specified either indoors or outdoors in the Project. NRCC-PRC-E is required for Covered Process specified in the Project, which includes computer rooms, data centers, elevators, escalators and moving walkways, laboratories, enclosed parking garages, commercial kitchens, refrigerated warehouses, commercial refrigeration, compressed air systems, or process boilers.

For questions about required Certificates of Compliance and compliance with the California Energy Code contact the Energy Standards Hotline – 1 (800) 772-3300; Outside California: (916) 654-5106. For additional information see <a href="www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-">www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-</a>

	-		Report Required <b>P</b> = Copy of Form Required on Plans
Review will not com	mer	ice u	ntil this checklist and all required Certificates of Compliance are submitte
COMMISSIONING	R		NRCC-CXR-E Building Commissioning
COMMISSIONING	Р		Sheet # in the plans:
ENVELOPE	R		NRCC-ENV-E Envelope Component Approach
ENVELOPE	Р		Sheet # in the plans:
MEGUANICAL	R	<b>✓</b>	NRCC-MCH-E Mechanical Systems
MECHANICAL	Р		Sheet # in the plans:
INDOOR	R		NRCC-LTI-E Indoor Lighting
LIGHTING	Р		Sheet # in the plans:
OUTDOOR	R		NRCC-LTO-E Outdoor Lighting
LIGHTING	Р		Sheet # in the plans:
SOLAD DEADY	R		NRCC-SRA-E Solar Ready
SOLAR READY	Р		Sheet # in the plans:

DEPARTMENT OF GENERAL SERVICES

ELECTRICAL	R		NRCC-ELC-E Electrical Power Distribution
POWER DISTRIBUTION	Р		Sheet # in the plans:
PLUMBING	R		NRCC-PLB-E Plumbing
PLUMBING	Р		Sheet # in the plans:
SIGN LIGHTING	R		NRCC-LTS-E Sign Lighting
SIGN LIGHTING	Р		Sheet # in the plans:
COVERED	R		NRCC-PRC-E Covered Process
PROCESSES	Р		Sheet # in the plans:
ocumentation subm 4, Part 6). The docu urther acknowledge will ensure that the ompleted, signed, a alifornia Energy Co	itted men that appro nd su de B	is in ts ch t upo opria ubmi	Responsible Charge, I have reviewed the Project Plans and affirm that the compliance with the requirements of the 2019 California Energy Code (Title ecked on pages 1 and 2 of this form are included in the project submittal. In installation of equipment and material identified on compliance forms, te installation and acceptance tests are conducted and the associated forms titled to the owner, and that the completed construction complies with the 20 mg Energy Efficiency Standards.
ignature:			Jen Lefly Date: 02/08/2021
ignataro			

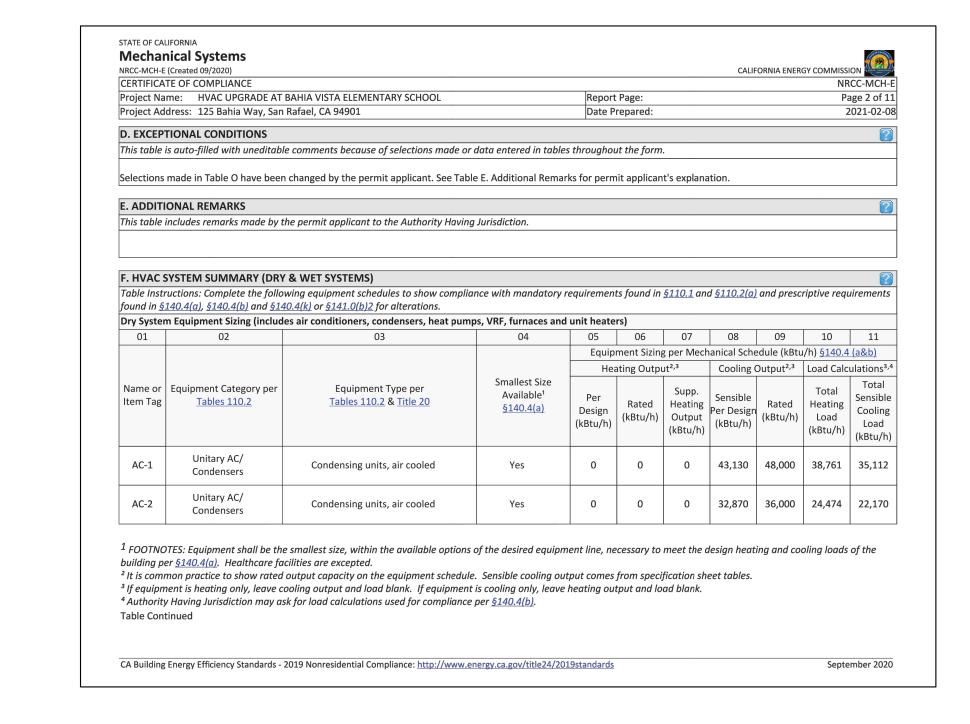
DEPARTMENT OF GENERAL SERVICES

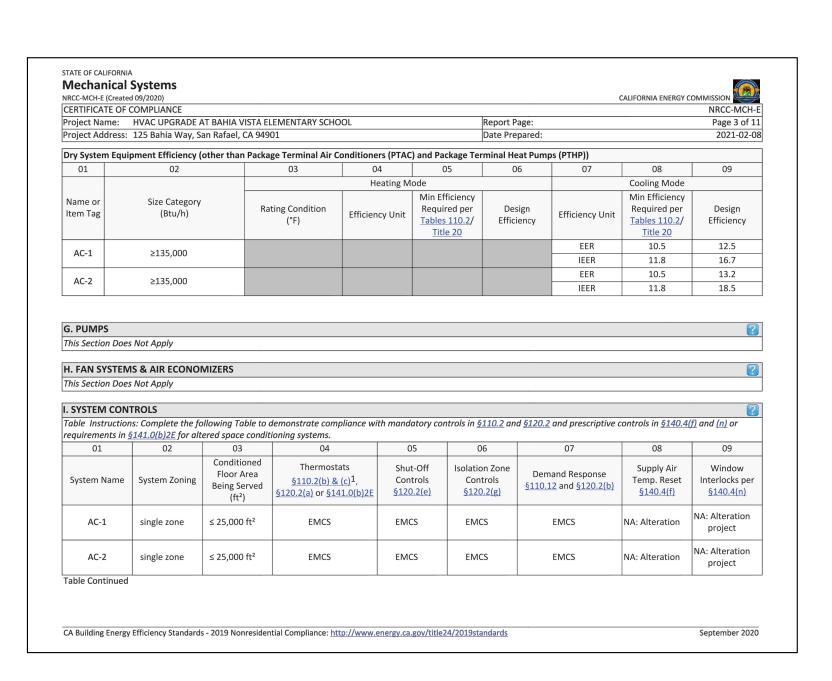
DGS DSA 403-A (rev 01/06/20)

DIVISION OF THE STATE ARCHITECT

Project Name	: Н	IVAC UPGRAD	E AT I	<i>r <u>§141.0(b)2</u> fo</i> BAHIA VISTA EI			)L			Repo	rt Pa	ge:			Page 1 c
				Rafael, CA 949						Date			-		2021-0
A. GENERAL	INFC	DRMATION								<u>'</u>					
01 Project I	_ocati	on (city)				San Rafael			04 To	otal Conditioned	l Floo	r Area	Т		23,504
02 Climate	Zone					2			05 T	otal Unconditior	ned Fl	oor Area			0
03 Occupar	ncy Ty	pes Within Pro	oject	:				(	06 #	of Stories (Habi	table	Above Grade)			2
Office (B)				Reta	il (M)	)			No	n-refrigerated V	/areh	ouse (S)			
Hotel/ Mo	otel G	Guest Rooms (R	R-1)	✓ School	ool (E)	)			He	althcare Facility	(1)				
High-Rise	Resid	dential (R-2/R-3	3)	Relo	catab	ole Class Bldg (	E)		Otl	ner (Write In):					
' FOOTNOTES	: Clim	ate zone can k	oe de	termined on th	e Cali	ifornia Energy	Comn	nission's web	site a	t <u>http://www.er</u>	iergy.	.ca.gov/maps/	renev	wable/building_	<u>climate_zones.html</u>
B. PROJECT	SCOE	)F													
			echai	nical systems tl	hat ai	re within the so	cone d	of the nermit	annlii	ration and are d	emor	stratina comp	liance	e usina the nres	scriptive path outlined
		<u>b)2</u> for alteration		near systems tr	iat ai	e within the st	cope c	oj tile perillit	аррт	cation and are a	Cilion	istrating comp	marrec	c damig the pres	semperve paem oaemiee
						Му рі	roject	consists of (	check	all that apply)					
		01						02						03	
		Air System	(s)				W	et System Co	mpor	ients			D	ry System Com	ponents
Heating A	ir Sys	tem				Water Eco	onom	izer				Air Econo	mizer		
✓ Cooling A	ir Syst	tem				Pumps						Electric Re	esista	nce Heat	
		Mechanical Co	ontro	ls		Hydronic	Syste	m Piping				Fan Syster	ms		
	al Co	ntrols (existing	g to re	emain, altered	or	Cooling T	owers	S				✓ Ductwork	(exist	ting to remain,	altered or new)
└─ new)						Chillers						✓ Ventilatio	n		
						Boilers						Zonal Syst	tems/	Terminal Boxe	es
C CONADUIA	NCE	DECLUTO													
C. COMPLIA			1.1.4.		C A / O 7	F COM ADIAVII	<b>"</b> CON 4	IDLIEC!# E.			l C-	- t - T1-1- D. f-		-1	
01	ions:		nis to		S NOI		LOIVI		cepti	onal Conditions'	rejei		r guid		00
System	-	02		03		04 System		05	-	06		07		08	09
Summary				Fans/		Controls				Terminal Box		Distribution		Cooling	
§110.1,	AND	Pumps 8140 4(k)	AND	Economizers	AND		AND	Ventilation	n AN		AND		AND		Committee - B
<u>§110.2</u> ,		§140.4(k)		§140.4(c), §140.4(e)		§120.2,		§120.1		§140.4(d)		§140.4(I)		§110.2(e)2	Compliance Resul
§140.4	_	(2 - 11 -				§140.4(f)		/	.,	(5 - 11 - 11		/a = 11		(2 - 11 - 2)	
(See Table F)		(See Table G)	_	(See Table H)	_	(See Table I)	_	(See Table J	-	(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AN		AND	Yes	AND		COMPLIES
103										datory Measure					COMPLIES

STATE OF CALIFORNIA





Date Prepared:

AC-1, AC-2

Systems To Be Field Verified

Field Inspector

September 2020

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in

Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <a href="https://www.energy.ca.gov/">https://www.energy.ca.gov/</a>

NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units.

NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone

NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to \$120.1(c)3)

AC-1, AC-2

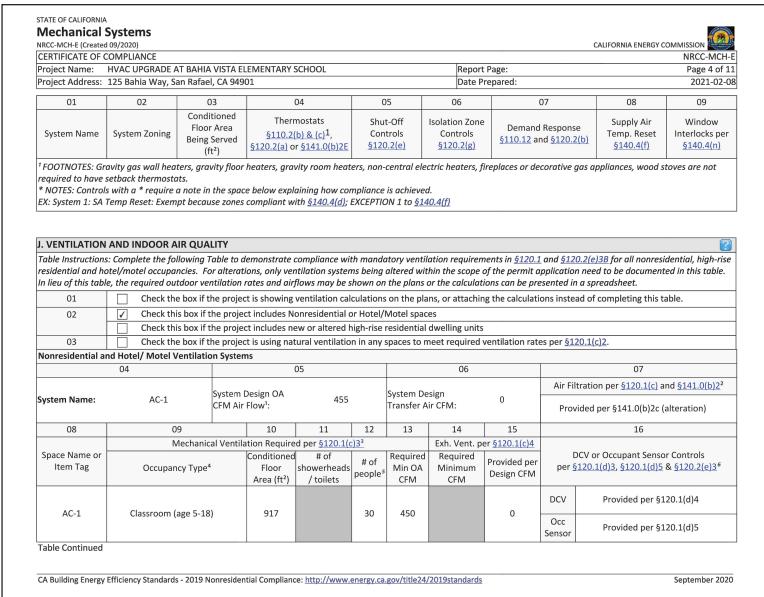
can vary outside ventilation flow rates based on maintaining interior carbon dioxide

Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD

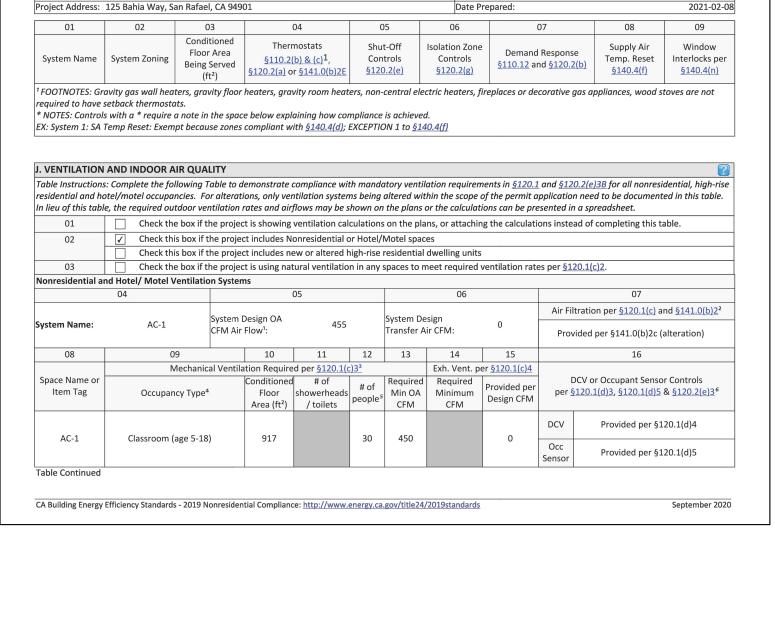
HVAC Systems are included in the scope, permit applicant should move this form to

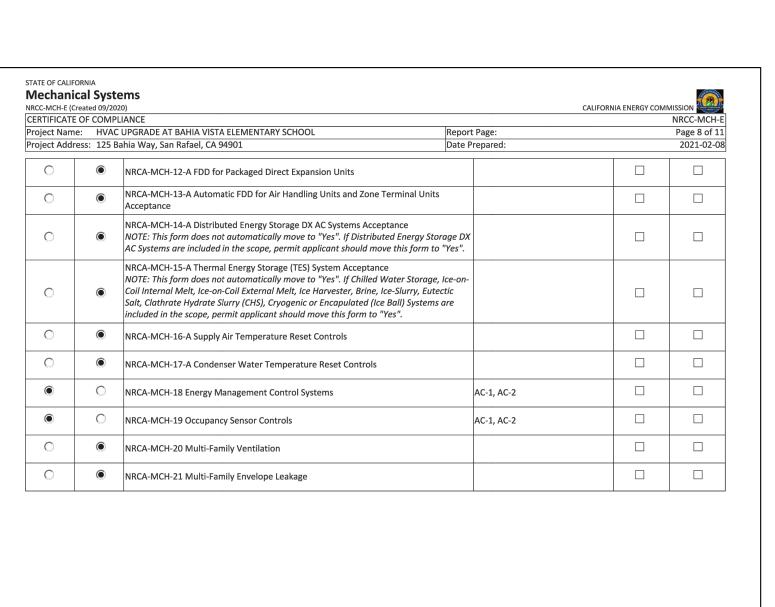
Acceptance (if applicable) since testing activities overlap.

NRCA-MCH-03-A Constant Volume Single Zone HVAC



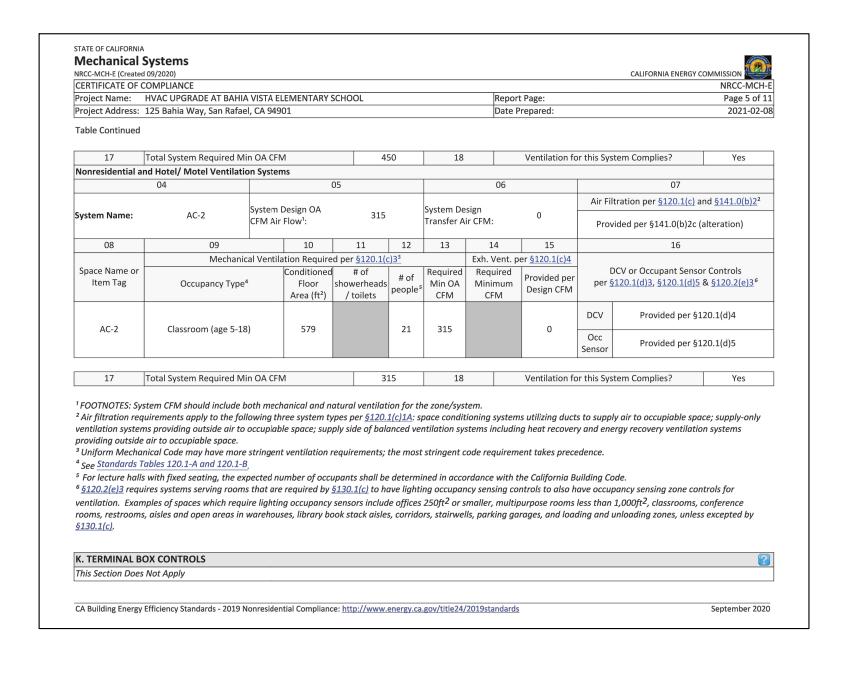
Page 2 of 2 STATE OF CALIFORNIA





September 2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

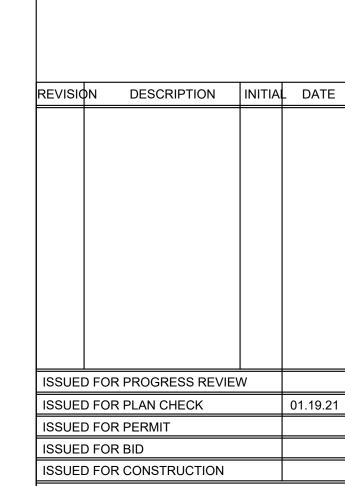


Project Address: 125  P. DECLARATION O  Table Instructions: Sei  Table E. Additional Re  created by a HERS Pro	AC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL Bahia Way, San Rafael, CA 94901  F REQUIRED CERTIFICATES OF VERIFICATION  Jections have been made based on information provided in previous semarks. These documents must be completed by a HERS Rater and providers registry, but drafts can be found online at <a href="https://www.energments/NRCV/">https://www.energments/NRCV/</a> NRCV-MCH-04-H Duct Leakage Test  NRCV-MCH-04-H Duct Leakage Test  NRCV-MCH-24 Enclosure Air Leakage Worksheet  NOTE: Must be completed by a HERS Rater	rovided to the building inspector during construction ty.ca.gov/title24/2019standards/2019_compliance	on. The final documents documents/	in why in
Project Address: 125  P. DECLARATION O  Table Instructions: Sei Table E. Additional Re created by a HERS Pro Nonresidential Docur  YES NO  C	Bahia Way, San Rafael, CA 94901  F REQUIRED CERTIFICATES OF VERIFICATION  lections have been made based on information provided in previous semarks. These documents must be completed by a HERS Rater and providers registry, but drafts can be found online at <a href="https://www.energments/NRCV/">https://www.energments/NRCV/</a> O Form/  NRCV-MCH-04-H Duct Leakage Test  NOTE: Must be completed by a HERS Rater  NRCV-MCH-24 Enclosure Air Leakage Worksheet  NOTE: Must be completed by a HERS Rater	Date Prepared:  tables of this document. If any selection needs to be ovided to the building inspector during construction to the building inspector during compliance of the building inspector during the	on. The final documents  documents/  Field In  Pass	2021-02-0  in why in  must be  spector
Table Instructions: Sei Table E. Additional Re created by a HERS Pro Nonresidential_Docur YES NO	lections have been made based on information provided in previous amarks. These documents must be completed by a HERS Rater and providers registry, but drafts can be found online at <a href="https://www.energments/NRCV/">https://www.energments/NRCV/</a> NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater  NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	rovided to the building inspector during construction ty.ca.gov/title24/2019standards/2019_compliance	on. The final documents  documents/  Field In  Pass	must be
Table Instructions: Sei Table E. Additional Re created by a HERS Pro Nonresidential_Docur YES NO	lections have been made based on information provided in previous amarks. These documents must be completed by a HERS Rater and providers registry, but drafts can be found online at <a href="https://www.energments/NRCV/">https://www.energments/NRCV/</a> NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater  NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	rovided to the building inspector during construction ty.ca.gov/title24/2019standards/2019_compliance	on. The final documents  documents/  Field In  Pass	must be
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0 6	NOTE: Must be completed by a HERS Rater  NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater			
0	NOTE: Must be completed by a HERS Rater			
	NRCV-MCH-27 High-rise Residential			
0 6	NOTE: Must be completed by a HERS Rater			
	NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater			

CERTIFICA	TE OF COM	IPLIANCE					NRCC-MCH-
		AC UPGRADE AT BAHIA VIST		Report Pa			Page 6 of 1:
Project Ad	dress: 125	Bahia Way, San Rafael, CA	94901	Date Prep	ared:		2021-02-0
L. DISTRII	BUTION (D	OUCTWORK AND PIPING					?
			to show compliance with mando	tory pipe insulation requirements f	ound in <u>§120.3</u> and prescriptive r	requirements f	found in
	or duct leal age Sealing	kage testing.					
		uestions below		Duct leakage testing trigger	ed for		
		g duct system(s):	AC-1, AC-2	these systems?		Yes	
11	No	The scope of the project i	ncludes only duct systems servin	g healthcare facilites.	<u>'</u>		
12	Yes	Duct system provides cor	ditioned air to an occupiable spa	ce for a constant volume, single zor	ne, space-conditioning system.		
13	Yes	The space conditioning sy	stem serves less than 5,000 ft² o	f conditioned floor area.			
14	Yes			cations is more than 25% of the tot	al surface area of the entire duct	t system:	
		Outdoo					
				a U-factor greater than the U-factor of has fixed vents or openings to the	0,		9
			nconditioned crawlspace	of flas fixed verits of openings to the	e outside/ unconditioned space	:5	
			unconditioned spaces				
15	No		<u> </u>	ct system, which is constructed, ins	ulated or sealed with asbestos.		
				hat is documented to have been pr		ough field ver	ification and
16	No	diagnostic testing in acco	rdance with procedures in the Re	ference Nonresidential Appendix N	<u>A2</u> .		
17		Duct system shall be seal	ed in accordance with the Califor	nia Mechanical Code.			
N4 COOL	INIC TOWN	- DC					
	ING TOWE	*****					?
THIS SECTION	n Does Not	Арріу					
N. DECLA	RATION O	F REQUIRED CERTIFICAT	ES OF INSTALLATION				7
				revious tables of this document. If a	unv selection needs to be change	d. please explo	ain why in
				spector during construction and ca	,		
title24/20:	<u>19standard</u>	ls/2019_compliance_docum	ents/Nonresidential_Documents,	/NRCI/			
VEC	NO		Forms/Title		Customs To Do Field Verified	Field In	spector
YES	NO		Form/Title		Systems To Be Field Verified	Pass	Fail
		NRCI-MCH-01-E - Must	be submitted for all buildings.	AC	-1, AC-2		
•							

NRCC-MCH-E (Created 09/2020)  CERTIFICATE OF COMPLIANCE			CA	LIFORNIA ENERGY COMMISSION NRCO
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTAR	RY SCHOOL		Report Page:	Page
Project Address: 125 Bahia Way, San Rafael, CA 94901			Date Prepared:	202
Q. MANDATORY MEASURES DOCUMENTATION LOCATION	ON			
Table Instructions: Indicate where mandatory measures are do the plan sheet or construction document location as "N/A", an				isures that do not apply,
01	-		02	
01			Plan sheet or construction docu	ment location
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	No			
03			04	
Mandatory Measure			Plan sheet or construction docu	ment location
Heating Equipment Efficiency per §110.1		N/A		
Cooling Equipment Efficiency per §110.1		MP001		
Furnace Standby Loss Control per §110.2(d)		N/A		
Duct Insulation per §120.4		MP001		
Heating Hot Water Equipment Efficiency per §110.1		N/A		
Cooling Chilled and Condenser Water Equipment Efficiency pe	r <u>§110.1</u>	N/A		
Open and Closed Circuit Cooling Towers conductivity of flow-b	ased controls per §110.2(e	<u>)1</u> N/A	'	
Open and Closed Circuit Cooling Towers Flow Meter with analog	og output per <u>§110.2(e)3</u>	N/A		
Open and Closed Circuit Cooling Towers Overflow Alarm per §	110.2(e)4	N/A		
Open and Closed Circuit Cooling Towers Efficient Drift Eliminat	ors per <u>§110.2(e)5</u>	N/A	'	
Pipe Insulation per §120.3(b)		MP001		
Combustion air shutoff, combustion air fan controls and stack boilers per $\underline{\bf 5120.9}$	design and controls for	N/A		
Heat Pump with Supplementary Electric Resistance Heater Cor	ntrols per <u>§110.2(b)</u>	N/A		
The air duct and plenum system is designed per §120.4(a)-(f)		MP001		
Kitchen range hoods shall be rated for sound in accordance wi 62.2	th Section 7.2 of ASHRAE	N/A		
	th Section 7.2 of ASHRAE	N/A		

HIA VISTA ELEMENTARY SCHOOL fael, CA 94901		Report Page:	NRCC-MCH-E Page 11 of 11
fael, CA 94901			
<del></del>		Date Prepared:	2021-02-08
ARATION STATEMENT			?
ance documentation is accurate and comple	te.		
	Documentation A	uthor Signature:	
	Signature Date:		
	CEA/ HERS Certifi	cation Identification (if applicable):	
	Phone:	,	
STATEMENT		,	
• •	ornia:		
	nonsibility for the bui	ilding design or system design identified o	n this Certificate of
disiliess and Professions code to accept les	polisibility for the bui	num design of system design identified o	ii tiiis certificate of
TREVOR M. LEFLER	Responsible Desig	gner Signature: June 14	fla
LEFLER ENGINEERING, INC.	Date Signed:	02/08/2021	
1651 SECOND STREET	License:	M37725	
*	Phone:	(415) 456-4220	
	STATEMENT perjury, under the laws of the State of Califitificate of Compliance is true and correct. Susiness and Professions Code to accept rese e specifications, materials, components, and the requirements of Title 24, Part 1 and Part of the Califications, plans and specifications submic copy of this Certificate of Compliance shall plicable inspections. I understand that a cort to the building owner at occupancy.	Documentation A Signature Date:  CEA/ HERS Certifi Phone:  STATEMENT perjury, under the laws of the State of California: tificate of Compliance is true and correct. Business and Professions Code to accept responsibility for the builties especifications, materials, components, and manufactured device the requirements of Title 24, Part 1 and Part 6 of the California of the design features identified on this Certificate of Compliance are calculations, plans and specifications submitted to the enforcem copy of this Certificate of Compliance shall be made available we plicable inspections. I understand that a completed signed copy of the building owner at occupancy.  TREVOR M. LEFLER Responsible Designed: LEFLER ENGINEERING, INC.  Date Signed: License:	Documentation Author Signature:  Signature Date:  CEA/ HERS Certification Identification (if applicable):  Phone:  STATEMENT  perjury, under the laws of the State of California: tifficate of Compliance is true and correct. susiness and Professions Code to accept responsibility for the building design or system design identified or e specifications, materials, components, and manufactured devices for the building design or system design the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  In design features identified on this Certificate of Compliance are consistent with the information provided calculations, plans and specifications submitted to the enforcement agency for approval with this building copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the buildiable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to the building owner at occupancy.  TREVOR M. LEFLER  Responsible Designer Signature:  LEFLER ENGINEERING, INC.  Date Signed:  02/08/2021  License:  M37725





CONSULTANT:



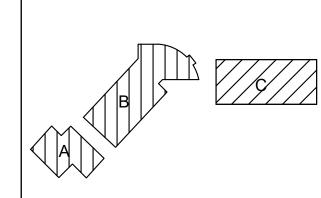


117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 www.intres.com

**HVAC UPGRADE** AT BAHIA VISTA **ELEMENTARY** SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEY PLAN



SHEET TITLE:

TITLE 24

PREPARATION AND REVIEW DRAWN BY: DESIGNER: PROJ MGR: PEER REVIEW

SHEET NUMBER:

#### 16010 GENERAL REQUIREMENTS

- A. General Conditions, Supplementary General Conditions, Special Requirements and Architectural project specifications apply to this specification.
- B. Scope: Provide labor, materials, transportation, equipment, related hand tools, special and occasional services to construct and install the complete electrical system as specified and shown
- C. Codes and Standards: Comply with latest published editions of applicable codes and standards

Document 2019 California Building Code (CBC) N.E.C. 2019 California Electrical Code (CEC) U.L. Underwriters' Laboratories, Inc

American National Standards Institute, Inc. N.F.M.A. National Electrical Manufacturers Assn.

Title 24 State Building Standards, Basic Electrical Regulations D. Record Drawings: At completion of work, prepare and submit record drawings on auto positive reproducibles made from contract drawings for work under this Specification with corrections made showing all changes made during course of work. Submit also drawing filess in electronic

format with AutoCad R2010 in CD/DVD disk. E. Major cutting, patching and painting required by this contract will be performed in a neat and workmanshiplike manner. All surfaces shall be returned to original condition after installation of

F. Visit the project site, take necessary measurements, and verify exact location of buildings, utilities, and other facilities, and obtain such other information as is necessary for an intelligent bid. No allowance will subsequently be made by the Architect or Owner for any error or omission on the part of the bidder in this connection.

G. Submittals: Within 14 days after the award of the contract, three copies of a complete submittal, consisting of catalog cuts, data and brochures of materials and equipment proposed for use shall be deposited with the Architect for approval. Where materials or equipment are at variance with the plans or specifications, the Contractor shall assume full responsibility for the function and conformity to the space requirements as well as the coordination of all other trades whose work is affected by the change or substitution. The Architects' approval of such material or shop drawings shall not relieve the Contractor from the responsibility for deviations from the drawings or specifications.

H. Testing: No work shall be enclosed before all required inspections and tests have been performed Any work prematurely closed shall be reopened for inspection and restoration of all work thereby shall be at the Contractor's expense.

#### 16011 BASIC MATERIALS AND METHODS

- A. General: Use all new material, received in original containers, installed and turned over to the Owner free of defects. Use only one brand, kind or make of each material or equipment item throughout
- B. Boxes and Covers: Cast for exterior application,  $4^{\circ}SQ \times 1-1/2^{\circ}$  minimum depth. Form and size best suited to particular location, devices enclosed, fixture supported, size and arrangements of connecting conduits.
- C. Raceway and Fittings 1. Rigid Steel Conduit for Exterior Exposed Work: Full weight threaded, hot-dip galvanized with
- T&B Series 222 bushings, insulated; T&B Series 3802 grounding, or equal 2. Electrical metallic tubing shall be hot dip galvanized conforming to ANSI C80.3. Connectors shall be compression type, steel, nylon insulated throat, raintight for interior use in ceiling space and concealed in walls. T&B #5123 or equal. Set screw connectors not allowed.
- 3. Liquid-tight Flexible Metal Conduit: Appleton #4Q-TL fittings or equal, with nylon insulated throats and external grounding lug for motor or equipment connections (maximum 6' length).
- D. Conductors: Power conductors shall be manufactured by General Electric, Rome Cable Company
- or approved equal. Power conductors shall be stranded 600V copper THWN—THHN type. E. Connectors, Lugs and Splices
- Tape, connectors, and lugs shall be rated the same temperature and duty as cable insulation. 2. Scotchlok, one-piece Type R, self-insulated, for No. 10 and smaller wire.
- 3. T&B, color-keyed, compression connectors, Series 54000 for No. 8 and larger conductors.
- F. Device Plates: Stainless steel, Hubbell #S series or as selected by Architect.
- G. Switches: Single pole, single throw, 20A, 120/277V. Hubbell #1221 series. H. Thermal Overload Switch: Square D Class 2510 or equal.
- I. Receptacles Duplex Convenience: 125V, 20A, 3W grounded. Color to be white, Hubbell Specification
- Grade #5362 Series or equal. J. Isolated Ground Receptacles — Duplex Convenience: Hubbell Specification Grade #IG-5362 Series,
- Leviton or equal, 125V, 20A, 3W, grounded. Color to be orange.
- K. Ground Fault Interrupter Receptacle: Duplex type, Hubbell GF 5362W. L. Weatherproof Receptacles at Roof: Hubbell GF5362 with Taymac #10310 cover.
- M. Weatherproof Receptacles flush in exterior of building. At +18": Hubbell WP26, GF5362, color as
- selected by Architect. N. Cabinet and Enclosures: 1. Sheet Metal for Pull Boxes: Galvanized sheet steel with protective priming coat and finish coat
- of enamel on all sides: both inside and outside of cabinets and boxes: not less in thickness than NEC standard for dimensions of cabinets.
- 2. Face Plates and Trims for Panelboards: Stretch-leveled sheet metal.
- O. Disconnect Switches: Heavy duty safety switches, 600V, SQ 'D' Class 3110. Fused with Bussmann type fuses as noted on plans or non-fused NEMA 1 for interior use and NEMA 4X stainless steel for exterior use.
- P. Distribution Panelboards: Where specified, panelboards shall be furnished complete with mounting, number and sizes of circuit breakers as shown or scheduled on drawing. Panelboard and breakers shall be manufactured by Cutler Hammer (match existing) with bolt-on breakers, 42,000 A.I.C., and copper bus Provide typewritten schedule with plastic cover inside door of panel showing circuit description of equipment. Revise existing panel schedule on inside door of panel showing revised circuits and description of equipment. All breakers must be of same manufacture as panelboard mounted in.
- Q. Branch Circuit Panelboards: Panelboards shall be furnished complete with mounting, number and sizes of circuit breakers as shown on schedule on drawing. Panelboard and breakers shall be manufactured by Cutler Hammer with bolt-on breakers, 65,000 A.I.C. (match existing), and copper bus Provide typewritten schedule with plastic cover inside door of panel showing circuit description of equipment. Revise existing panel schedule on inside door of panel showing revised circuits and description of equipment

#### 16012 EXECUTION

- A. Install all wiring in an accessible conduit system where shown on drawing which is electrically continuous throughout. Conceal all conduit unless exposed work is clearly called for on the drawings.
- B. Do not drill, bore or notch structural members in such a manner that it will impair their structural value. Cutting of holes, if required, shall be done only with approval of the Structural Engineer
- C. Install outlet boxes flush with finished surfaces except where the drawings
- specifically indicate surface mounting
- D. Leave no unused openings in any box. Use closure plugs as required to seal boxes. E. Pull no wire into any conduit until all work of any nature that may cause injury is completed. Care shall be taken in pulling wires that no damage occurs to insulation or wires. Blow out and swab conduits before conductors are pulled in.
- F. Mark wires at both ends with the correct circuit identification numbers using T&B EZ wire markers.
- G. Where more than two conductors run through a single outlet, mark each with the corresponding circuit number at the panelboard
- H. All electrical conduit and electrical equipment shall be braced or anchored to resist horizontal forces as required by Section 1630A and Table 16A-O, part B, Title 24 California Administrative Code, Part 2. Where anchorage details are not shown on drawings the field installation shall be subject to the approval of the Structural
- I. Electrical, General, Mechanical and Plumbing contractors shall coordinate the installation of systems so that no new piping, ducts and other foreign equipment are not installed over/under switchboards, transformers and panelboards per CEC 110.
- J. All equipment must be listed, labeled, or certified by U.L. or a National Recognized Testing Lab (NRTL). K. Indicate circuit numbers on new receptacle and switch cover plates with clear adhesive
- tape with black letters. L. All corridor and exterior wall penetrations of pipes, conduits, etc., in walls
- requiring protected openings shall be fire stopped. Fire stop material shall be a tested assembly approved by the California State Fire Marshal (CSFM listed). UL rated material to comply with ASTM C920, ASTM C1193, ASTM E84, ASTM E119.
- M. All corridor and exterior wall penetrations of pipes, conduits, etc., in walls requiring protected openings shall be fire stopped. Fire stop material shall be a tested assembly approved by the
  - END OF SPECIFICATION

N. Provide conduit hubs when running conduits into a box or enclosure.

#### GENERAL ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE PLANS.
- 2. MOUNTING HEIGHTS SHALL BE A MAXIMUM +48" TO TOP OF BOX OR MINIMUM 15" TO BOTTOM OF BOX PER CBC 1142A. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS.
- 3. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A
- 4. PROVIDE GREEN THWN COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL BRANCH CIRCUITS.
- 5. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF EQUIPMENT PRIOR TO TURN OVER TO THE OWNER.
- 6. ALL NEW AND EXISTING PANELBOARDS AND SWITCHBOARDS SHALL BE PROVIDED WITH NEW TYPEWRITTEN DIRECTORIES TO IDENTIFY THE LOCATION OF EACH LOAD SERVED.
- 7. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED).
- 8. CONTRACTOR TO COORDINATE ALL NEW WORK WITH ALL OTHER TRADES FOR A SMOOTH FLOW OF INSTALLATION WORK
- 9. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND CEILINGS INCURRED DURING ELECTRICAL CONSTRUCTION. IF DAMAGE OCCURS DURING ELECTRICAL CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS.
- 10. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS.
- 11. COORDINATE ELECTRICAL OUTLET LOCATIONS WITH ARCHITECTURAL ELEVATIONS (I.E. CABINETRY). AVOID ALL COUNTER SUPPORTS, AND LOCATIONS BEHIND INACCESSIBLE FIXED CABINETS.
- 12. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
- 13. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHALL
- 14. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS. MOTOR SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS.
- 15. RECEPTACLES SHALL NOT BE INSTALLED BACK TO BACK AND SHALL BE SPACED 24" APART. WHERE RECEPTACLES CANNOT BE SPACED 24" APART, PROVIDE 3M FIRE RATED PUTTY PADS TO MATCH WALL FIRE RATING.
- 16. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF
- 17. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE CONTRACTOR SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE LENGTHS.
- 18. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL)
- 19. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP ELECTRICAL ROOMS EXCLUSIVELY DEDICATED TO PANELBOARDS, SIGNAL AND OTHER ELECTRICAL EQUIPMENT, NO PLUMBING, PIPING OR MECHANICAL DUCTS SHALL RUN OVER ELECTRICAL PANEL OR OTHER ELECTRICAL EQUIPMENT PER C.E.C. 110-26(f).
- 20. ALL SWITCHES AND RECEPTACLES SHALL BE PROVIDED WITH 'BROTHER' LABELING SYSTEM TO IDENTIFY THE PANEL AND CIRCUIT NUMBER OF EACH OUTLET, COLOR TO BE 3/8" HIGH BLACK ON TRANSPARENT TAPE.
- 21. ALL CABINETS, DISCONNECT SWITCHES, PULLBOXES, AND TERMINAL BOXES SHALL BE PROVIDED WITH LABELING SYSTEM TO IDENTIFY THE PANEL AND ITS USE. SEE SPECIFICATIONS FOR REQUIREMENTS.
- 22. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE PROJECT MANUAL.
- 23. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES HEM. THE CONTRACTOR SHALL VERIFY WITH ARCHITECT/VENDORS AND COORDINATE ALL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
- 24. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION.
- 25. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL, U.O.N. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT.
- 26. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- 27. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.50E.
- 28. PROVIDE EXPANSION FITTINGS AND/OR CONDUIT FLEX TO CONDUITS PASSING THROUGH STRUCTURAL EXPANSION JOINT SYSTEM VERIFY/COORDINATE WITH ARCHITECT FOR LOCATION.
- 29. ALL RACEWAY PASSING THROUGH EXPANSION JOINT AREA SHALL BE PROVIDED WITH EXPANSION JOINT FITTINGS AND/OR FLEX CONDUIT AS
- 30. ALL FIXTURES WITH EMERGENCY BATTERY PACK SHALL BE PROVIDED WITH UNSWITCHED HOT.
- 31. ALL EXTERIOR MOUNTED GFI RECEPTACLE OUTLETS TO BE PROVIDED WITH LOCKABLE COVERS, TAYMAC MX3200.
- 32. FOR POWER AND LIGHTING CIRCUITS, CONTRACTOR SHALL PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT IN THE RACEWAY OR PROVIDE BREAKER
- 33. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION.
- 34. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECTURAL DRAWINGS ALL LOCATIONS AND DIMENSIONS OF DEVICES/EQUIPMENT PRIOR TO ROUGH-IN.
- 35. ALL EXIT SIGNS SHALL COMPLY WITH SECTIONS 1013 OF THE C.B.C.
- 36. ALL DIVISION 15 EQUIPMENT LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 15 U.O.N. PROVIDE CONDUIT
- 37. COORDINATE INSTALLATION OF ALL RECESSED LIGHT FIXTURES WITH DIVISION 15 PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS ENSURE AFTER INSTALLATION OF FIXTURES THAT THERE IS NO CONTACT BETWEEN DUCTS AND FIXTURES TO AVOID VIBRATION IN FIXTURES.
- 38. ALL CONDUIT STUB OUTS AND CONDUITS TERMINATING TO A J-BOX, CABINET, AND THE LIKE SHALL BE PROVIDED WITH INSULATED THROAT. BOX OR CABINET COVER SHALL BE LABELED AS TO USE.
- 39. 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
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS
- . TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE

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

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
- PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START 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

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

DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP ☐ E X - OPTION 1: DETAILED ON THE APPROVED

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

## **ELECTRICAL SYMBOL LIST**

NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES

20A, 125V DUPLEX GFI RECEPTACLE, +18" CL U.O.N. 20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, +18" U.O.N. JUNCTION BOX, CEILING OR WALL MOUNTED - SIZED PER CODE FUSED DISCONNECT SWITCH WITH NEMA 4X STAINLESS STEEL ENCLOSURE SIZED PER MANUFACTURER'S REQUIREMENTS: WP - WEATHERPROOF DATA OUTLET MOTOR CONNECTION THERMAL OVERLOAD SWITCH MANUAL MOTOR STARTING SWITCH, HORSE POWER RATED WITH OVERLOADS **EXISTING CONDUIT** BRANCH CIRCUIT CONDUIT CONCEALED IN WALL OR CEILING BRANCH CIRCUIT CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT STUB CONDUIT TO ACCESSIBLE SPACE

**EQUIPMENT CONNECTION** 

**CONDUIT UP** 

CONDUIT DOWN ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 3/4"C - 2#12, 1#12 GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER OF #12 WIRES: ( = 3/4"C - 3#12, 1#12G) ETC. FOR WIRE SIZES OTHER THAN #12: (  $\frac{\text{HH}_{H0}}{\text{H}_{0}}$  = 3#8, 1#12G), (GROUND SIZED PER CEC, IN CODE SIZE CONDUIT) ETC.

EXISTING

ALUMINUM CENTERLINE

CLASSROOM

GROUND FAULT INTERRUPTER

INTERMEDIATE DISTRIBUTION FRAME

EMPTY CONDUIT WITH PULL CORD

WEATHERPROOF

PULL BOX

UNDERGROUND

UNLESS OTHERWISE NOTED **VERIFY IN FIELD** 

CLEAN.

NUMBERED ELECTRICAL NOTE

DENOTES EQUIPMENT NUMBER

## **GENERAL DEMOLITION NOTES**

- (1) NO ACCURATE AS BUILT DRAWINGS AVAILABLE. THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM THE RECORD DRAWINGS AND SURVEY WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOBSITE AND VERIFY EXACT EXISTING CONDITIONS BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE TIME SPENT IN VERIFYING THE EXISTING ELECTRICAL SYSTEM.
- (2) CONTRACTOR SHALL VERIFY IN FIELD ALL EXISTING CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS AND PROVIDE ALL REQUIRED CONDUITS, CONDUCTORS, BOXES, SUPPORTS AND HARDWARE TO FOLLOW AND CONFORM WITH THIS DESIGN.
- (3) CONTRACTOR TO BE RESPONSIBLE TO KEEP ALL EXISTING SYSTEMS (SHOWN AND NOT SHOWN) THAT ARE TO REMAIN IN OPERATION AT ALL TIMES AND TO RESTORE TO ITS ORIGINAL CONDITION WHENEVER AFFECTED BY THIS WORK. WHERE ANY EXISTING SYSTEMS ARE IMPACTED BY THIS REMODELED WORK, CONTRACTOR SHALL REPLACE AND RESTORE ALL SYSTEMS TO MAINTAIN OPERATION AT ALL TIMES.

(4) CONTRACTOR TO PLUG/SEAL OFF ANY AND/OR REPAIR ANY DAMAGED INSTALLATION IMPACTED BY THIS REMODELED WORK, REMOVE ALL UN-USED RACEWAYS AND CONDUCTORS AND LEAVE AREA

MECHANICAL TAG - LETTER DENOTES TYPE, NUMBER 117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 (FAX) 232-5325 http://www.intres.com

**HVAC UPGRADE** AT BAHIA VISTA **ELEMENTARY** SCHOOL

REVISION DESCRIPTION INITIAL DATE

ISSUED FOR PROGRESS REVIEW

01-06-21

ISSUED FOR PLAN CHECK

ISSUED FOR CONSTRUCTION

Exp. 9-30-22

**Electrical Consultants Incorporated** 

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Lafayette, CA 94549

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20-059

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INTERACTIVE

RESOURCES

architects + engineers

ISSUED FOR PERMIT

ISSUED FOR BID

CONSULTANT:

125 BAHIA WAY

SAN RAFAEL, CA. 94901

KEYPLAN:

**ELECTRICAL NOTES AND** 

**SPECIFICATIONS** PROJ. NO. 2020-036-01 PREPARATION AND REVIEW DESIGNER: JWE

PROJ MGR:

PEER REVIEW

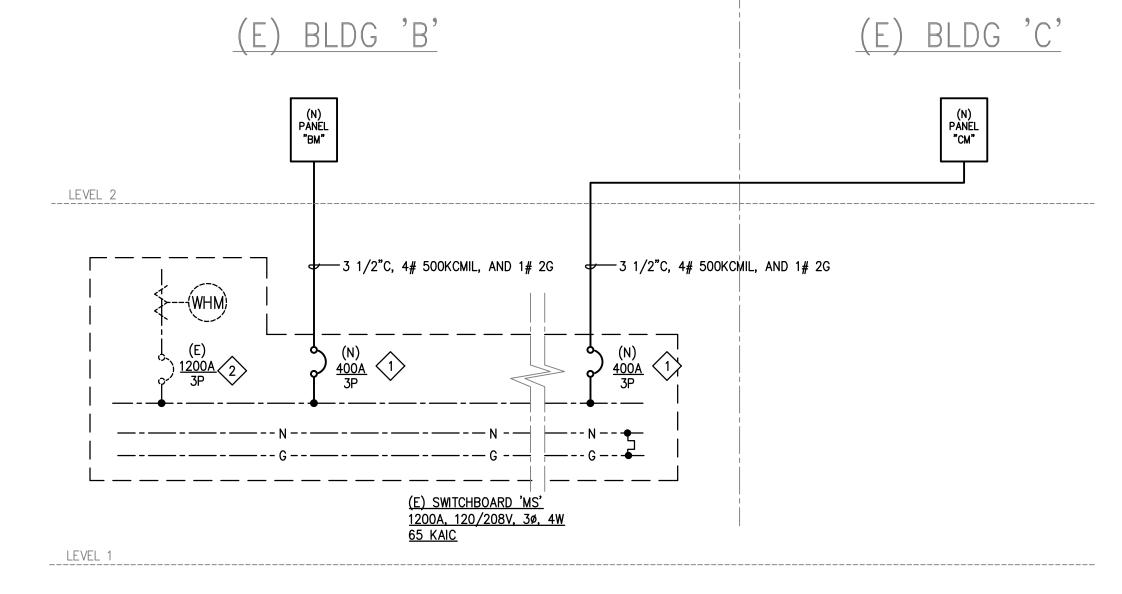
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Checker

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PARE							20/1	41	3	42	20/1		0.40			RECEPTION ROOF
OTAL						23.03							0.80		38.40	
/OLTS:	120/208V,3ø,4W	MTG:	SURFA	CE												
BUS:	400A	TYPE:	NQ		-2						CONN	ECTED	KVA:	62	.23	_
MAIN:	400A	KAIC:	42		2						CONN	ECTED	AMPS	172	2.86	=



#### NOTE

- INSTALL NEW CIRCUIT BREAKER IN EXISTING SPACE. MATCH EXISTING TYPE AND KAIC RATING. PROVIDE ALL ACCESSORIES, HARDWARE AND KIT AS REQUIRED FOR A COMPLETE INSTALLATION.
- EXISTING 1200A FULLY RATED CIRCUIT BREAKER WITH RMS310 LS. CONTRACTOR TO RETAIN SWITCHBOARD VENDOR, EATON, AS REQUIRED TO REMOVE AND REPLACE RATING PLUG TO SET THE TRIP RATING TO 1200A, #12NES1200T.

	ELECTRICAL LOAD CALCS	š:		
A	12-MONTH MAXIMUM HIGH CURF FROM PG &E:	RENT READING	194	KW
		ADD 25%	48.5	KW
			242.5	KW
B.	Bldg B - New Panel BM		68.0	KW
C.	Bldg C - New Panel CM		62.2	KW
D.	New Total Loads:		372.7	KW
E.	Total Amps: 120/208V 3-PH 4W		1035.4	AMPS
	EXISTING 1200A SWITCHBOARD	) IS ADEQUATE.		

ELECTRICAL EXISTING PARTIAL ONE-LINE DIAGRAM

INTERACTIVE RESOURCES architects + engineers

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POINT RICHMOND
CALIFORNIA 94801

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REVISION DESCRIPTION INITIAL DATE

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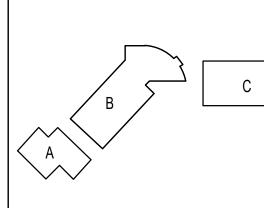
PROJECT

NTS 1

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901

KEYPLAN:



NORTH

SHEET TITLE:

ELECTRICAL DIAGRAMS AND DETAILS

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: DM

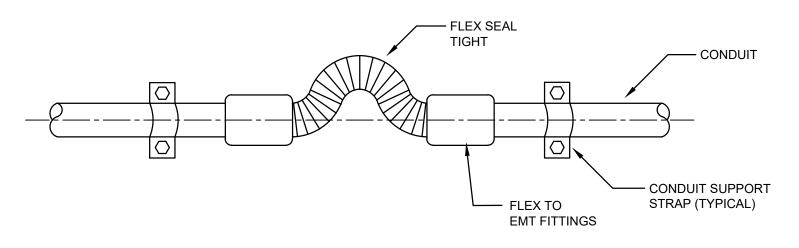
DESIGNER: JWE

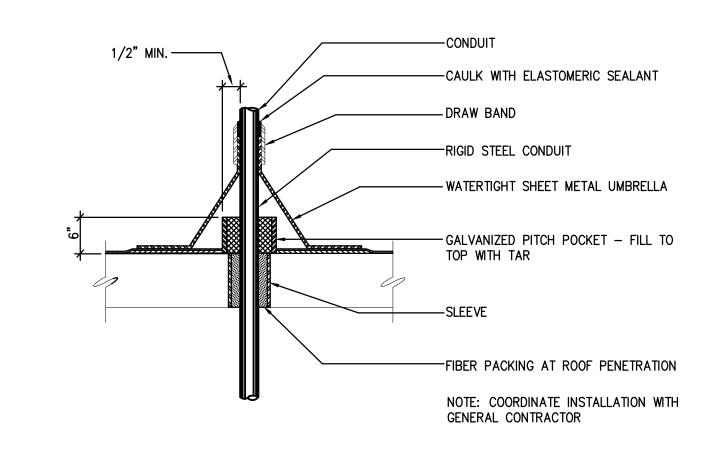
PROJ MGR:

PEER REVIEW Checker



E002





COMPLETELY FILL ANNULAR SPACE BETWEEN CONDUIT

& WALLBOARD OR PLASTER

WITH 3M CP 25WB+ CAULK ———

MAX 4" DIA

INSTALL 3M CP 25WB+ CAULK

TO COMPLETELY FILL ANNULAR

SPACE BETWEEN CONDUIT AND

GYPSUM WALL BOARD.

METAL CONDUIT \_\_\_\_

CONDUIT ROOF PENETRATION DETAIL NTS 1

— 1, 2, 3 OR 4 HOUR

FIRE RATED GYPSUM

RIGIDLY SUPPORT CONDUIT ON BOTH SIDES OF WALL.

─ OVER 1/4" DIAMETER

FROM THE WALL.

U.L. LISTING #WL-1001

CONDUIT PENETRATION DETAIL - FIRE RATED WALL

BEAD OF 3M BRAND FIRE

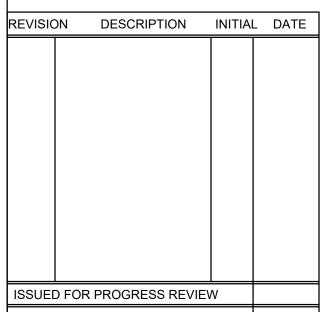
BARRIER CP 25WB+ CAULK

APPLIED TO PERIMETER OF

EXPANSION FITTINGS (MIN. 6" MOVEMENT)
O Z GEDNEY TYPE TX, TYPE AX-8 OR EQUIVALENT

CONDUIT AT ITS EGRESS

WALLBOARD ASSEMBLY OR LATH & PLASTER WALL.



ISSUED FOR PLAN CHECK ISSUED FOR PERMIT ISSUED FOR BID

ISSUED FOR CONSTRUCTION

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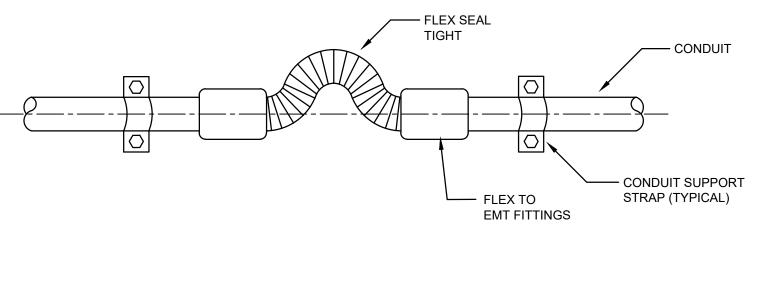
**HVAC UPGRADE** AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

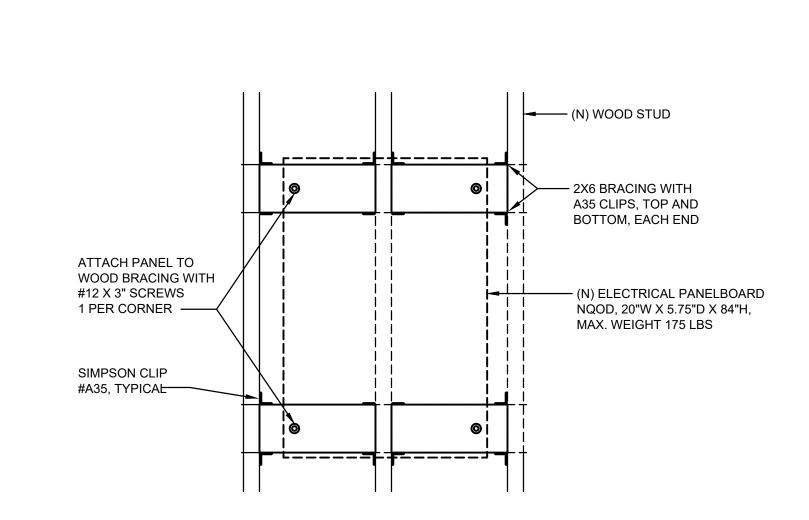
ELECTRICAL **DETAILS** 

PROJ. NO. 2020-036-01 PREPARATION AND REVIEW

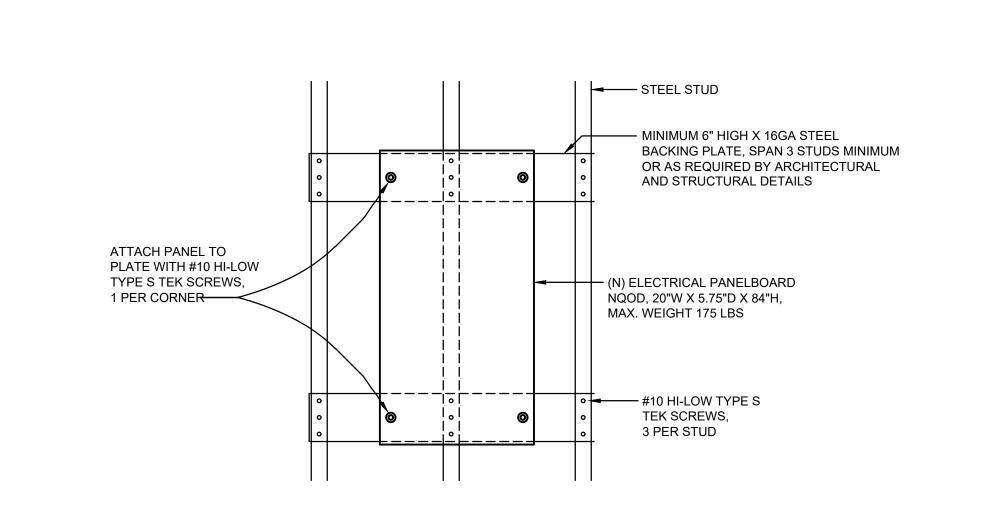
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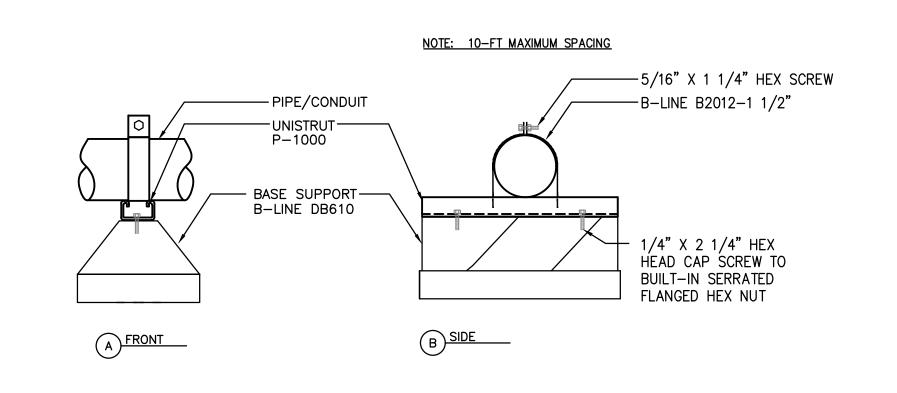




SURFACE PANELBOARD MOUNTING DETAIL - WOOD | NTS | 5

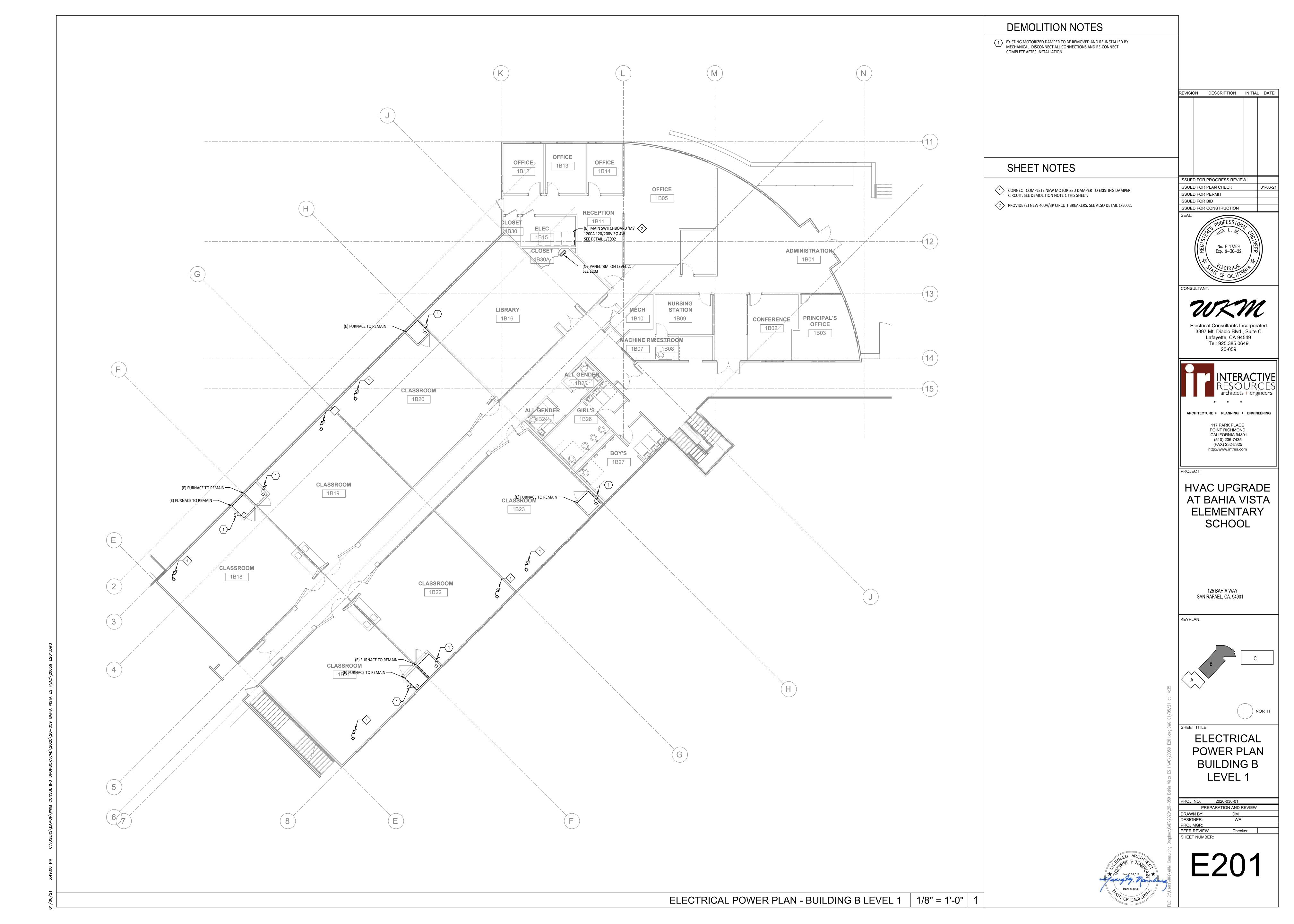


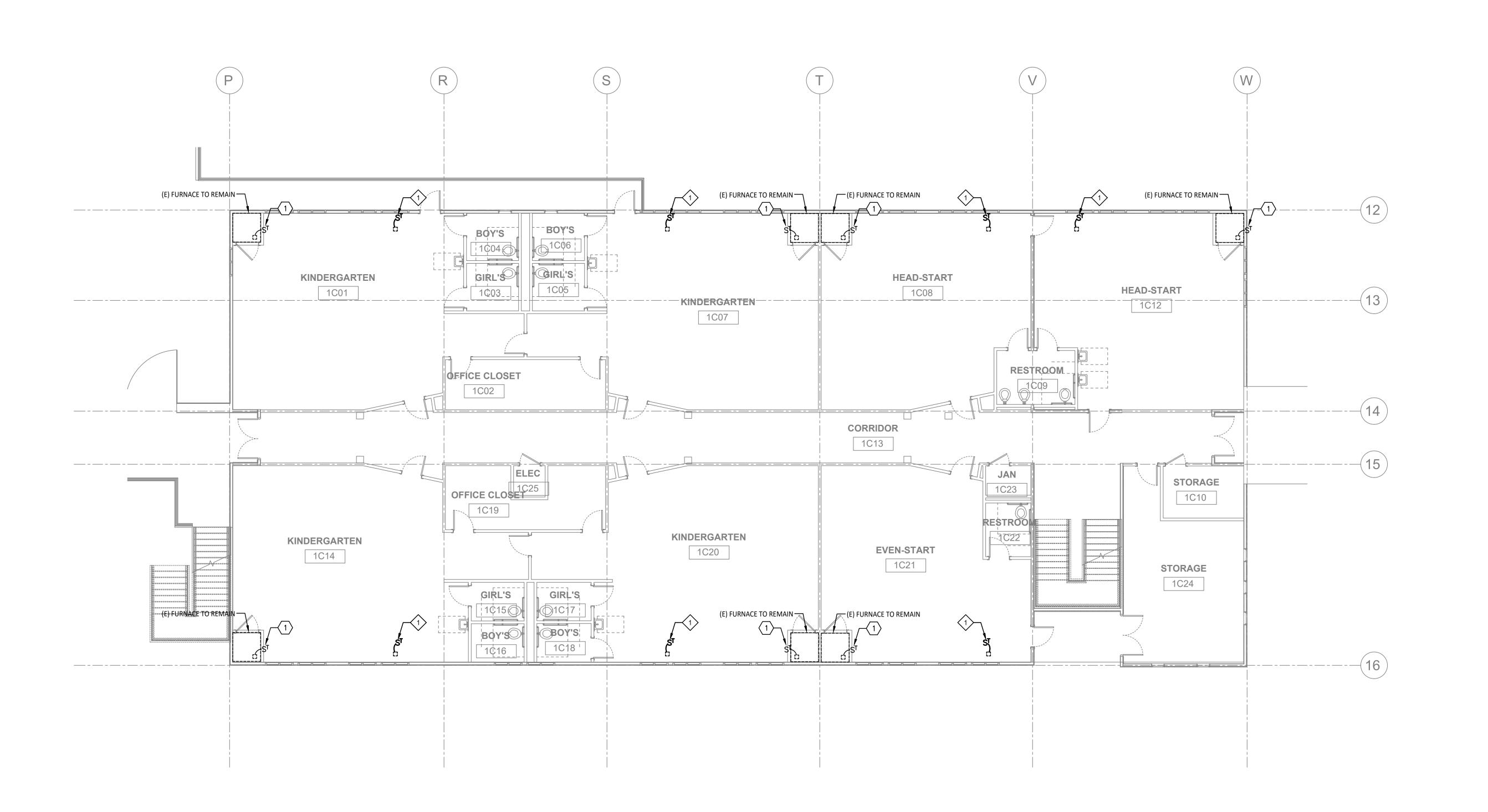
SURFACE PANELBOARD MOUNTING DETAIL - STEEL NTS 6



CONDUIT SUPPORT ON ROOF MOUNTING DETAIL | NTS | 7

EXPOSED CONDUIT EXPANSION FITTING DETAIL - WALL | NTS | 3





#### **DEMOLITION NOTES**

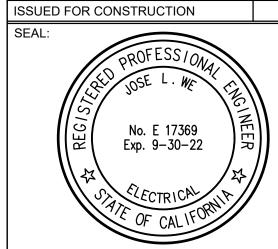
EXISTING MOTORIZED DAMPER TO BE REMOVED AND RE-INSTALLED BY MECHANICAL. DISCONNECT ALL CONNECTIONS AND RE-CONNECT COMPLETE AFTER INSTALLATION.

REVISIO	N	DESCRIPTION	INITIAL	DATE
	·			

#### SHEET NOTES

CONNECT COMPLETE NEW MOTORIZED DAMPER TO EXISTING DAMPER CIRCUIT. <u>SEE</u> DEMOLITION NOTE 1 THIS SHEET.

ISSUED FOR PROGRESS REVIEW			
ISSUE	FOR PLAN CHECK		01-06-2
ISSUE	FOR PERMIT		
ISSUE	FOR BID		



NSULTANT:



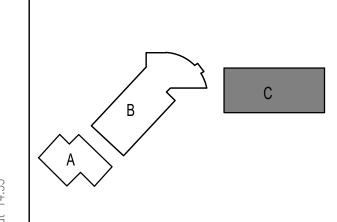


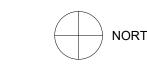
PROJEC

## HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901

KEYPL





SHEET TITLE:

ELECTRICAL
POWER PLAN
BUILDING C
LEVEL 1

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: DM

DESIGNER: JWE

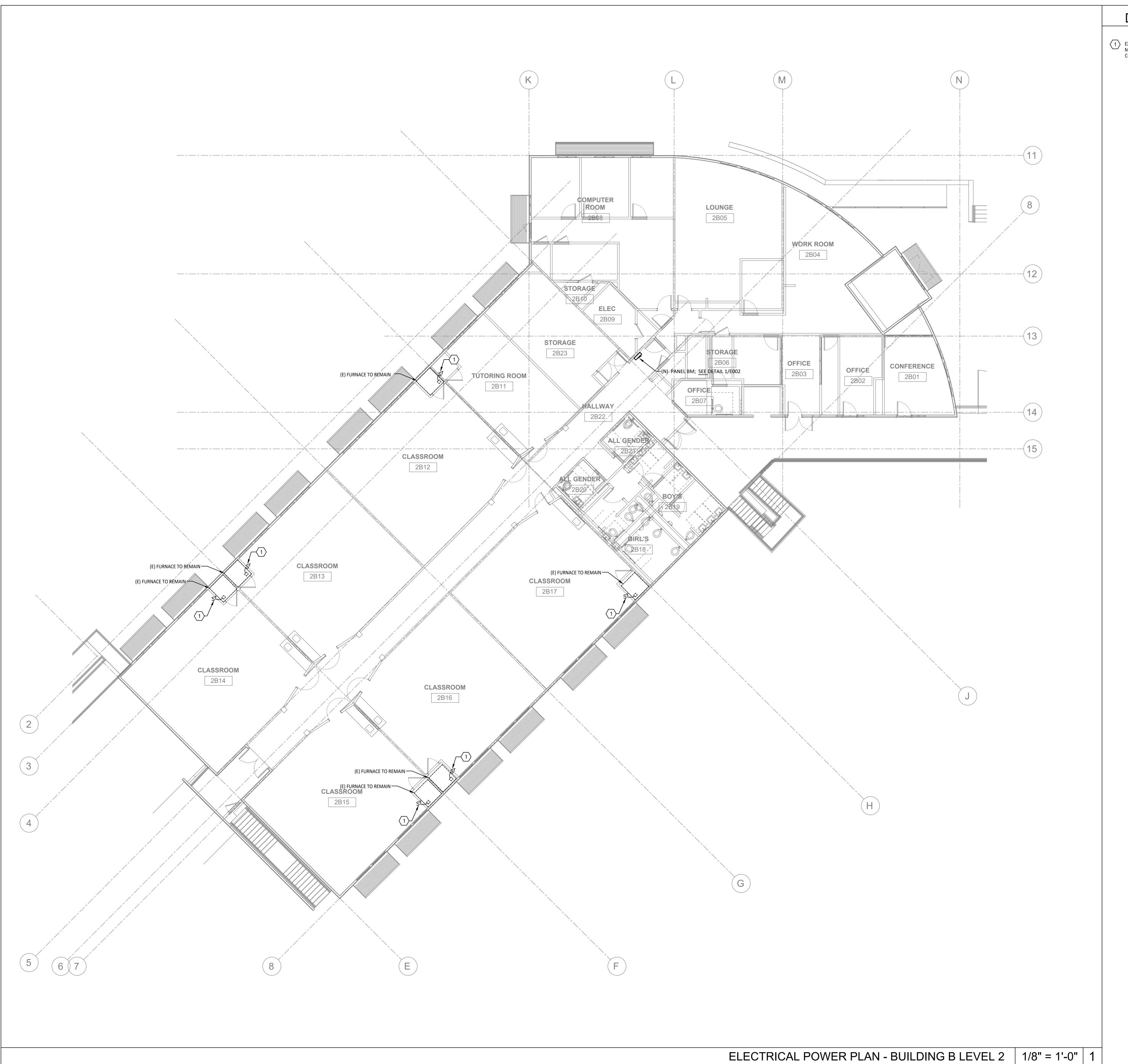
PROJ MGR:

PEER REVIEW Checker

SHEET NUMBER:

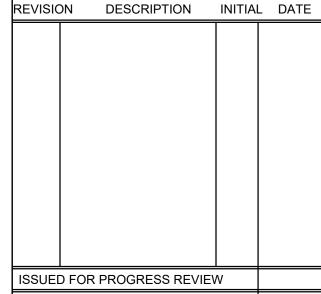


E202



#### DEMOLITION NOTES

EXISTING MOTORIZED DAMPER TO BE REMOVED AND RE-INSTALLED BY MECHANICAL. DISCONNECT ALL CONNECTIONS AND RE-CONNECT COMPLETE AFTER INSTALLATION.



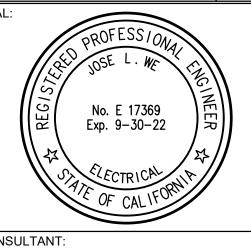
ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK 0°

ISSUED FOR PERMIT

ISSUED FOR BID

ISSUED FOR CONSTRUCTION



Electrical Consultants Incorporated 3397 Mt. Diablo Blvd., Suite C Lafayette, CA 94549 Tel: 925.385.0649

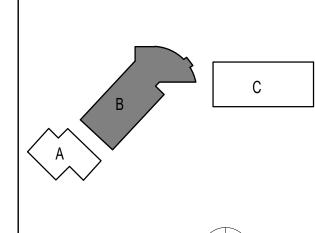


PROJECT

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEYPLAN:



NORTH

ELECTRICAL POWER PLAN BUILDING B

LEVEL 2

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: DM

DESIGNER: JWE

PROJ MGR:

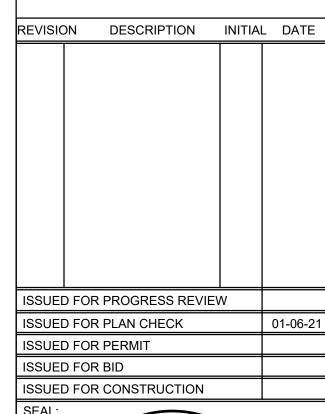
PEER REVIEW Checker

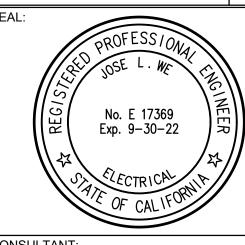


E203

#### DEMOLITION NOTES

EXISTING MOTORIZED DAMPER TO BE REMOVED AND RE-INSTALLED BY MECHANICAL. DISCONNECT ALL CONNECTIONS AND RE-CONNECT COMPLETE AFTER INSTALLATION.







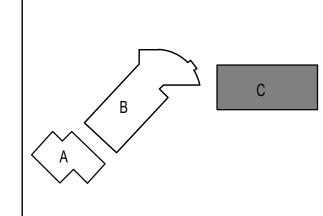


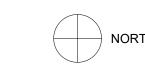
PROJECT:

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEYPLA



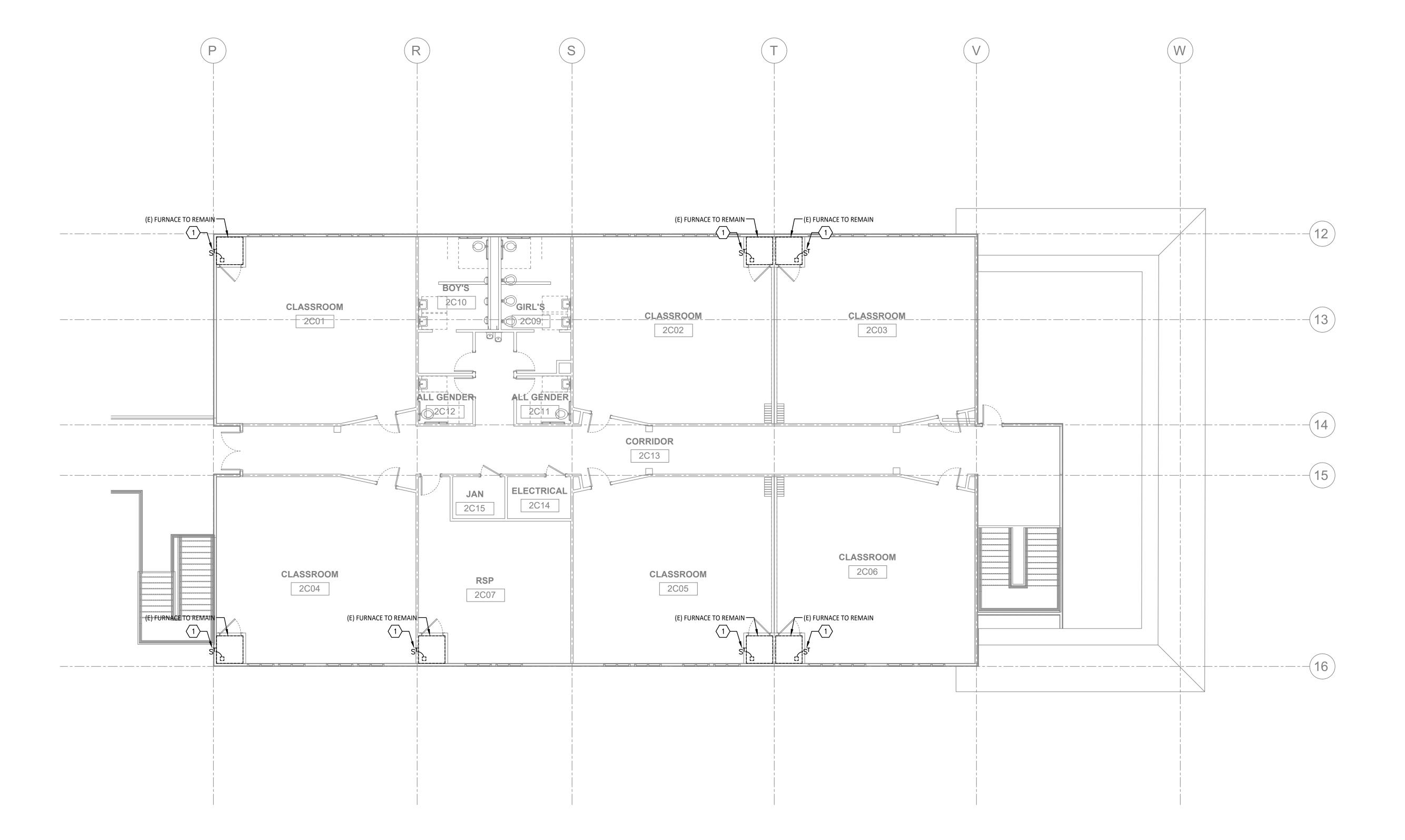


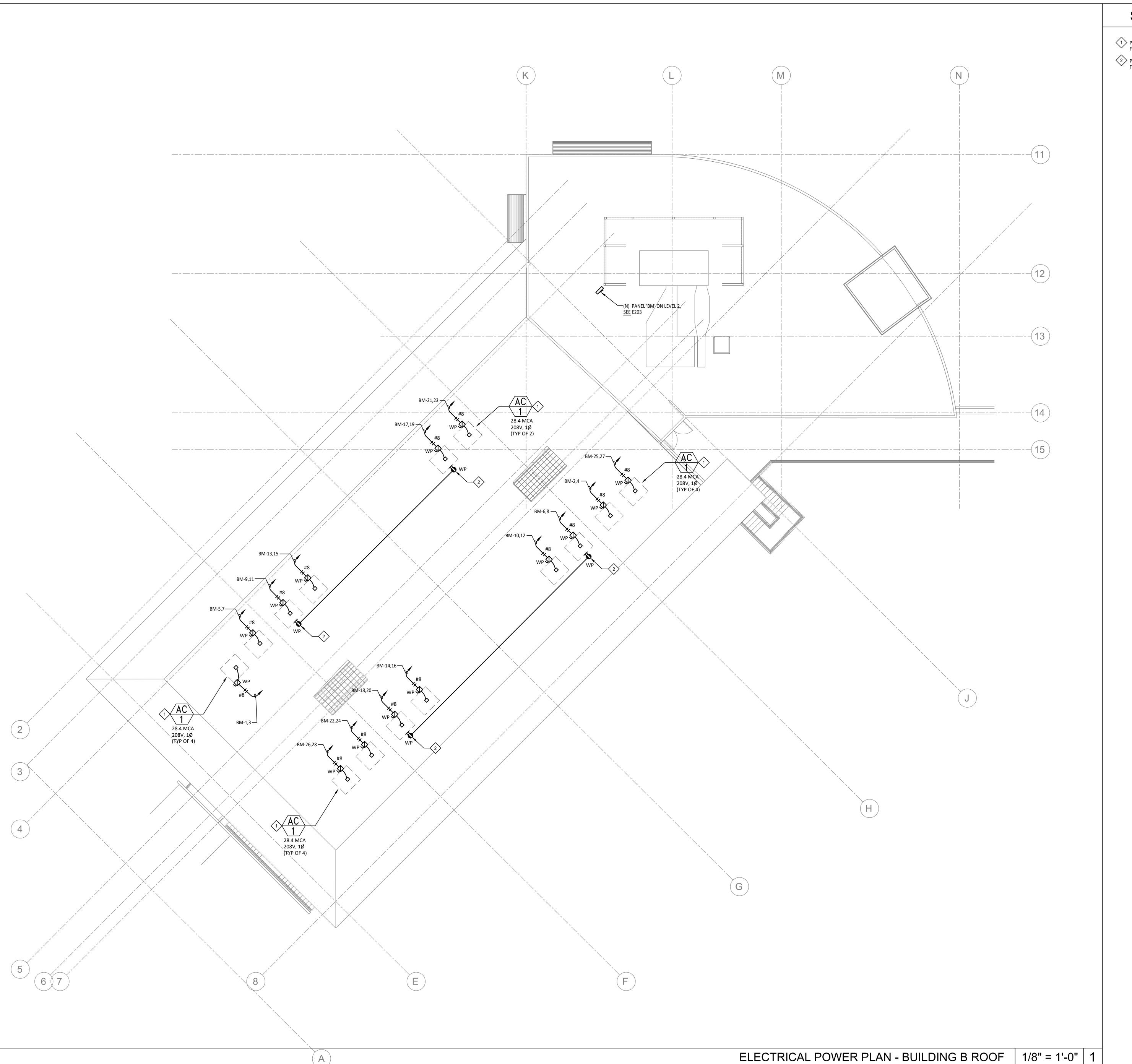
SHEET TITLE:

ELECTRICAL POWER PLAN BUILDING C LEVEL 2

_					
-007	PROJ. NO.	2020-036-01			
)ropbox\CAD\2020\20-	PREPARATION AND REVIEW				
20\	DRAWN BY:	DM			
\20	DESIGNER:	JWE			
'AD'	PROJ MGR:				
×	PEER REVIEW	Checker			
odd	SHEET NUMBER	₹:			
2					







## SHEET NOTES

PROVIDE 3/4" 2 #8 PLUS GROUND TO PANEL BM ON SECOND FLOOR. SEE E203.

2 PROVIDE 3/4" 2 #12 PLUS GROUND TO PANEL BM ON SECOND

PROVIDE 3/4" 2 #12 PLUS GROUND TO PANEL BM ON SECOND FLOOR. SEE E2.03.

REVISION	DESCRIPTION	INITIAI	_ DAT	
ISSUED FOR PROGRESS REVIEW				
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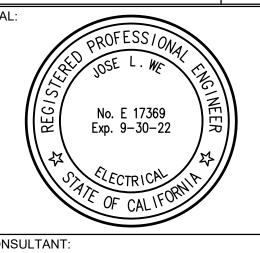
ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK 01-0

ISSUED FOR PERMIT

ISSUED FOR BID

ISSUED FOR CONSTRUCTION



Electrical Consultants Incorporated 3397 Mt. Diablo Blvd., Suite C Lafayette, CA 94549 Tel: 925.385.0649

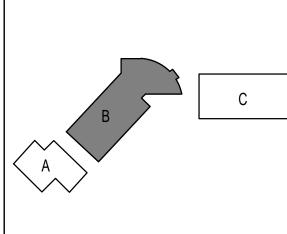


PROJECT:

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEYPLAN



NORTH

ELECTRICAL POWER PLAN BUILDING B

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: DM

DESIGNER: JWE

PROJ MGR:

PEER REVIEW Checker

SHEET NUMBER:



E205

#### SHEET NOTES

1 PROVIDE 3/4" 2 #8 PLUS GROUND TO PANEL CM ON SECOND FLOOR. <u>SEE</u> E203.

PROVIDE 3/4" 2 #12 PLUS GROUND TO PANEL CM ON SECOND FLOOR. <u>SEE</u> E2.03.

REVISION DESCRIPTION INITIAL DATE

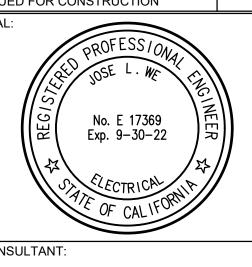
ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK 01-06

ISSUED FOR PERMIT

ISSUED FOR BID

ISSUED FOR CONSTRUCTION





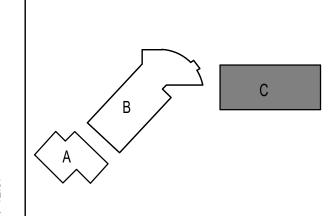


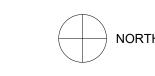
PROJECT

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

> 125 BAHIA WAY SAN RAFAEL, CA. 94901

KEYPL





SHEET TITLE:

ELECTRICAL POWER PLAN BUILDING C ROOF

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: DM

DESIGNER: JWE

PROJ MGR:

PEER REVIEW Checker

SHEFT NUMBER:

E206

