

HARVEST PARK MIDDLE SCHOOL BOILER REPLACEMENT 4900 VALLEY AVENUE, PLEASANTON, CA 94566 PLEASANTON UNIFIED SCHOOL DISTRICT

GENERAL NOTES

PRE-BID SITE VISIT

CONTRACTOR SHALL VISIT THE PROJECT AREA IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR MAY CONTACT THE ARCHITECT DURING THE BIDDING PHASE REGARDING CLARIFICATIONS AND PROJECT REQUIREMENTS.

<u>SAFETY</u>

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

DAMAGE TO STRUCTURE OR SYSTEMS TO REMAIN CONTRACTOR SHALL REIMBURSE THE OWNER FOR REPAIR AND REPLACEMENT, INCLUDING ARCHITECT'S FEES, FOR ANY DAMAGE CAUSED TO STRUCTURES, LANDSCAPE, SITE WORK, OR EXISTING SYSTEMS TO REMAIN, AS THE RESULT OF CONSTRUCTION OPERATIONS.

EXISTING CONDITIONS

ALL EXISTING CONDITIONS ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND BUILDING DATA AT THE JOB SITE. ANY DISCREPANCIES REQUIRING MODIFICATION TO THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY. NO MODIFICATIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

CONTRACTOR'S EQUIPMENT

COORDINATE WITH OWNER'S REPRESENTATIVE FOR APPROVED LOCATION OF JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. SEE SITE PLAN FOR ADDITIONAL NOTES.

UTILITY SHUT-DOWNS AND CONNECTIONS

ALL REQUIRED UTILITY SHUT DOWNS SHALL HAVE PRIOR APPROVAL FROM THE OWNER'S REPRESENTATIVE. REQUEST SHALL BE SUBMITTED WITH ADEQUATE ADVANCE NOTICE PER PROJECT REQUIREMENTS.

ASBESTOS AND ASBESTOS PRODUCTS

THE OWNER/OPERATOR AND CONTRACTOR SHALL BE AWARE THAT BUILDINGS CONSTRUCTED PRIOR TO 1978 (OR THERE ABOUT) POSSIBILITY CONTAIN ASBESTOS IN SOME EXISTING CONSTRUCTION MATERIALS, AND WILL LIKELY BE ENCOUNTERED DURING ALTERATIONS OR REMODELING.

UNDER CALIFORNIA TITLE 8, THE OWNER AND CONTRACTOR BOTH HAVE RESPONSIBILITIES TO DETERMINE THE EXISTENCE OF ASBESTOS CONTAINING MATERIALS IN AREAS TO BE ALTERED OR REMODELED PRIOR TO COMMENCEMENT OF WORK AND TO TAKE APPROPRIATE MEASURES TO PROTECT PERSONNEL. CAL-OSHA HAS JURISDICTION OVER ASBESTOS RELATED WORK. ASBESTOS RELATED WORK SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA GENERAL INDUSTRIAL SAFETY ORDERS, TITLE 8, SECTION 341.6 THROUGH 341.14. ASBESTOS IN THE WORK ENVIRONMENT IS REGULATED BY TITLE 8, SECTION 5208.

THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AND DISTRICT REGULATION 11-2-401.3 REQUIRES EVERY RENOVATION INVOLVING THE REMOVAL OF 100 SQ.FT., LN.FT, OR GREATER OF REGULATED ASBESTOS CONTAINING MATERIAL AND FOR EVERY DEMOLITION (EVEN WHEN NO ASBESTOS IS PRESENT), A NOTIFICATION MUST BE SENT TO THE BAAQMD AT LEAST 10 WORKING DAYS PRIOR TO COMMENCEMENT OF DEMOLITION / RENOVATION.

ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.

THESE DOCUMENTS DO NOT ADDRESS CONTAINMENT FOR EXISTING AREAS OF ASBESTOS WHICH MAY BE DISCOVERED DURING CONSTRUCTION. THE OWNER'S ABATEMENT SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE DETECTION, REMOVAL, AND THE DISPOSAL OF ANY EXISTING ASBESTOS MATERIAL. ARCHITECTURAL AND ENGINEERING FEES FOR ADDITIONAL DESIGN EFFORT TO OBTAIN STATE APPROVALS, AS WELL AS THE COST OF ANY REPAIRS, FOR DAMAGE CAUSED OR REPLACEMENT OF EXISTING SYSTEMS TO REMAIN, DUE TO WORK PERFORMED BY THE ASBESTOS ABATEMENT SUBCONTRACTOR, SHALL BE THE RESPONSIBILITY OF SAID SUBCONTRACTOR.

CONSTRUCTION SCHEDULING

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.

INTERIOR FINISHES

INTERIOR FINISHES AND ALL WALL COVERING MATERIAL SHALL CONFORM TO CCR TITLE 24, PART 2, CHAPTER 8.

PIPES, DUCTS AND CONDUIT - SUPPORT AND BRACING

PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", OPM 0052-13 SEISMIC BRACING AND SUPPORT SYSTEMS.

DRILLED-IN EXPANSION ANCHORS

WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

TITLE 24 COMPLIANCE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION. REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2019 CBC). SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.

ADMINISTRATIVE REQUIREMENTS FROM PART 1., TITLE 24, C.C.R.

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT, AND APPROVED BY DSA, AS PER SECTION 4-338 - A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, PER SECTION 4-342.

- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL REQUIRED TEST AND INSPECTIONS FOR THE PROJECT. - SPECIAL INSPECTION PER SECTION 4-333 (C)

- CONTRACTOR SHALL SUBMIT VERIFIED REPORT OR SECTION 4-336 & 4-343 - ADMINISTRATION OR CONSTRUCTION PER PART 1, TITLE 24, C.C.R.

- DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333 (A) AND 4-341 - DUTIES OF CONTRACTOR PER SECTION 4-343 - VERIFIED REPORTS PER SECTION 4-343 AND 4-336

A COPY OF PARTS 1 TO 5 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION - DSA SHALL BE NOTIFIED AT START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331 - SUPERVISION BY DSA PER SECTION 4-334

- DSA IS NOT SUBJECT TO ARBITRATION

GENERAL NOTES, cont.

ADMINISTRATIVE REQUIREMENTS

- ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH
- AFFECTS ACCESS COMPLIANCE ITEM UNLESS SUCH CHANGES TO REVISIONS ARE SUBMITTED TO DSA FOR APPROVAL. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A
- CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING: -- ARCHITECT OR ENGINEER OF RECORD
- -- STRUCTURAL ENGINEER (WHEN APPLICABLE) -- DELEGATED PROFESSIONAL ENGINEER
- -- DSA MATERIALS AND THEIR INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES. PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.

COMPLIANCE WITH LOCAL ORDINANCES

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

(REFER TO CONSULTARY DRAWINGS FOR ADDITIONAL ABBEVIATIONS) AP,F. AQUEY RINSHED FLOOR LAW. LAWINTORY ACC ACCESSS FANELE M.B. MACHINE BOLT ADJ ADJUSTABLE M.S. MACHINE BOLT ADJ ADJUSTABLE M.S. MACHINE BOLT APPROX. APPROXIMATELY M.G. MANINUE APPROX. APPROXIMATELY M.G. MANINUM G. ASPHALTIC CONCRETE MAT. MATERIA BLKG, BLOCKING M.T. MECHANICAL BLKG, BLOCKING M.T. METAL BLKG, BLOCKING M.N. MATELY BLWG, BOLTONG N.M. MATELY BLWG, BLOCKING N.M. MATELY BLWG, BULDENG OCC. OCCINTRACINE C.C. COLCE CENTER TREETER OCC. OCC. OCCINTRACINE C.G. CERNOUT TO GRADE OF.O. ONGANAL MUMBER C.G. CERNOUT TO GRADE OF.O.		REVIATIONS	-	
AP. ACCESS PANEL LAV. LAVATORY ACT ACOUSTICTLE M.S. MACHINE BOLT AUM. AMUMAN M.H. MANUPACTURER APPROX. APPROXIMATELY M.G. MANUPACTURER APPROX. APPROXIMATELY M.G. MANUPACTURER ARCH. ARCHTECT M.R. MARCH. ARCH. ARCHTECT M.R. MERCH. B.M. BLOCOMOR M.T. METAL B.M. BLOCAMOR M.T. METAL B.W. BOTH WAYS MISC. MISCELLANEOUS BLUR BLUR LIP ROCENC N.M. NOMINACONTRACT C.G. CELING N.T.S. NOT TO SCALE C.G. CELING N.T.S. NOT TO SCALE C.G. CELING O.C. OCCUPANTCY C.G. CELANDITTO GRADE O.H. OPPOSITE C.G. CELANDITTO GRADE O.H. OUTSIDE DANETER C.G. CELANAL HEAAT OF.C.I. OWHER PURNISHED </td <td>,</td> <td>CONSULTANT DRAWINGS FOR</td> <td>ADDITIONA</td> <td>L ABBREVIATIONS)</td>	,	CONSULTANT DRAWINGS FOR	ADDITIONA	L ABBREVIATIONS)
ACT ACOUSTO TILE IME MACHINE SOLT ALUM. ALUMINUM M.H. MANHOLE ALUM. ALUMINUM M.H. MANHOLE ALUM. ALUMINUM M.H. MANHOLE ALUM. ALUMINUM M.B. MARKER BOARD ACC ASPHATTC CONCRETE M.T. MATANA AC ASPHATTC CONCRETE M.T. METAL BUR BURCH MARK M.R. METAL BUR BOTTOM MID MOUNTED BUR BURT CHARKER METAL METAL BURT CHARKER METAL				
ALU. ADUISTABLE M.S. MACHINE SCREW ALUM ALUMANIMA M.H. MANUFACTURER ARPROX APROX MARCHINE SCREW AB ANCHOR BOLT ME MARCHINE SCREW AB ANCHOR BOLT ME MARCHINE SCREW AGH APROX MARCHINE SCREW MARCHINE SCREW BM BENCH MARK MARCHINE SCREW MARCHINE SCREW BLGS BLOCHING MIT MISC. MISCELLANEOUS BLJR BULDING MISC. MISCELANEOUS MISCELANEOUS BLJR BULT-JPE ROCINES NO. MO MOINNAL CLG CELMING N.I.C. NOT IN CONTRACT CLG CLG CEANOLT OFM MOMER CONT SCALE CONTRACT CLG CEANOLT OFM OPPOSITE CONT SCALE CONTRACT CLG CEANOLT OFM OPPOSITE CONTRACT CLG CLG CEANOLT OFM OPPOSITE CONTRACTOR BRAND				
A.B. ANCHOR BOLT March Marchar APPROX. ARCHITECT MAIL MATERNAL ARCHITECT MAIL MATERNAL QL ASPHALTIC CONCRETE MAX. MAILENAL QL ASPHALTIC CONCRETE MAX. MAILENAL QL ASPACALARS MECH MECHANIZAL QL ASPACALARS MIL MATERNAL BUS BULCKING MIL MECHANIZAL BUS BULDNG MIN MINMUM BUS BULDNG NIC. MOT IN CONTRACT BUS BULDNG NIC. NOT IN CONTRACT CL CELINIS NIC. NOT IN CONTRACT CL CELINIS NIC. NOT IN CONTRACT CL CELINIS NIC. NOT IN CONTRACT CL CENTER TO CONTRACT OPP. OPPOSITE CL CERTER TO CONTRACT OPP. OPPOSITE CL CALR CLARAL HEART OPP. OPPOSITE CL	-			
APPROX APPROXIMATELY N.B. MARKER BOARD ACC ASPHALTIC CONCRETE MAX MAXIMUM AC ASPHALTIC CONCRETE MAX MAXIMUM BUG BLOCKING MTL METAL BUG BOARD MIL METAL BUG BOARD MIL METAL BUG BOARD MISC. MSCELLANEOUS BUG BOARD MIL MOINTED BLUR BULLIT-UP ROCHING MON NOMINAL CC CELLING SIGN N.C. NOMINAL BLUR BULT-UP ROCHING NON NOMINAL C.C. CELING SIGN N.C. NOMINAL C.C. CELING SIGN N.C. NOMINAL C.C. CELANOUT OPRO OPPOSITE C.O. CEANUT OFMOR OPRO C.C. CEANUT OFMOR OUN C.C. CEANUT OFMOR OUN C.C. CEANUT OFMOR O	-			-
ARCH ARCHITECT MAT. MATERIAL C ASPHALTIC CONCRETE MAX MAXMUM B A MATERIAL MATERIAL BUR BOLOCHING MIL MECH. MECHANCAL BU BOTOM MID. MINMUM MISCELANEOUS BUT. BOTTOM MID. MOUNTED MOUNTED BUR. BULTUP ROFING MID. MOUNTED MOUNTED BUR. BULTUP ROFING NO. NO. NOT BUR. BULTUP ROFING NO. NO. NOT NOT BUR. BULTUP ROFING NO. NO. PORT OPCOMPATCY) CLG. CELING CONTER OC. OCCOMPATCY) CONTRACTOR C.0. CLEANOUTTO GRADE O.F.O.S. OUTSIDE FACE OF STUD OC. C.1. CLEANOUTTO GRADE O.F.O.S. OUTSIDE FACE OF STUD OC. C.1. COLD WATER P.A. PART PART PART C.1.				
@ AT meChannelist BLM BENCH MARK MTCA MEChan BLKS BLOCKINA MIN MINMUM BURD BORD MIS MISCA MISCA BURD BORDONS MISC MISCALLANEOUS MISCA BURD BURTON MIC MOUNTED MISCA BURD BURTON N.C. NOTIN CONTRACT BURD BURTON N.C. NOTIN CONTRACT CLB CATCH BASIN N.C. NOTIN CONTRACT CLB CATCH BASIN N.C. NOTIN CONTRACT CLB CATCHANOLTIO GRADE OPOSITE OPOSITE CON COLTAGUERA ALL HEART O, H.S. OVERTLED WOOD SOREW CALHAR CALHAR O, F.C. OWERT CONTRACTOR INSTALLED CUT. COLAMON OUTSIDE DUMATTER OUTSIDE DUMATTER CONT CONTRUCTON HEART PAR PAR CONTRACTOR PLYM PARTITION CONTRACTOR PLYM PLYMOD DUATTER <tr< td=""><td>ARCH.</td><td>ARCHITECT</td><td></td><td></td></tr<>	ARCH.	ARCHITECT		
BLKG BLCOKING MECH. MECHAL BUKG BLOCKING MIN. MINIMUM ABCOUS BU BOTH WAYS MIN. MINIMUM ABCOUS BUG BULDING MIN. MINIMUM ABCOUS BUG BULDING MIN. NOT IN CONTRACT BLG BULDING NI.C. NOT IN CONTRACT CLG CELING NI.S. NOT TO SCALE CLG CELING NI.S. NOT TO SCALE CER. CERERTIC CORTER TO CORTER OCC. OCCLAPATICY) COT CL CAROUT TO GRADE O.H. OPPOSITE AND CALL CLEANOUT TO GRADE O.H. OPPOSITE AND CAL COLEANOUT TO GRADE O.H. OPPOSITE AND CAL COLANTER O.F.C. OUTSIDE FACE OF STUD OLTAR CAL COLARDIT ORPOSITE AND CAL CONT CONTROLOS PAR PART. PART. COLT COLANTERT OLANCON ONC. CONT				-
BIND DUMON MIN MINUMUM BUN BOTTOM MTD MOUNTED BUT BOTTOM MTD MOUNTED BUT BULTUP ROCEING NOM NOM BUR BULTUP ROCEING NOM NOM BUR BURTPR NOT O'SOLLE CO CL CENDENT NO.O'M NUMBER CL COLOC CENTER TO CENTER OCC OCCENTER C.O. CEANOUT TO GRADE O/H. OPPROTE OPRING C.O. CLEANOUT TO GRADE O/H. OPROTE OUTSIDE FACE OF STUD C.A.H.R. CLEAR OVERTROTION O.F.C. OWERTROTION ONTO C.M. COLD WATER ONTRUCTION NONT PAIR CONTRUCTION STRUCTION C.H. CONSTRUCTION NONT PAIR PAIRTON CONTRUCTION STRUCTION CONTRACTOR PLYWO. PLYWOD CONTRUCTION PL PAIR CONTRUCTION NONT R PAIR PAIRTON CONTRUCTION <			-	
But				
DOT. BOTTOM MTD. MOUNTED BLOG, BULICHOR OCHNG NOM. NOMINAL BUR, BULICHOR OCHNG N.T.S. NOT TO SCALE CEM. CEMENT NO.C. NOT IN CONTRACT CLG. CENTER OC. OC.C. COLENANT CC. CO.C. CONCENTER OC. ON CONTRACT CER. TLE GRANUT TO GRADE OPP. OPPOSITE OPPOSITE CIT. CLEAR ALL HEART OLO. ON CENTRO OUTSED DAMETER CA.H.R. CLEAR ALL HEART OLO. OUTSED DAMETER OUTSED DAMETER COM. COLUWATER OL. OUTSED DAMETER OUTSED DAMETER COM. CONSTRUCTION NONT PLATE PLATE CONSTRUCTION NONT CH. CONSTRUCTION NONT PLAS PLASTER PLATE CONTRUCTION NONT PLAS PLASTER PLATE CONTRUCTION NONT PLASTER PLATE PLATE CONTRUCTION NONT PLAS PLASTER PLATE		-		
NUM. NOMI. NOMI.AL CB. CATCH BASIN N.T.S. NOT TO SCALE CLG. CELMIST NO. NOT TO SCALE CLM. CEMENT O.C. OCCUPANT(CY) CENTER INC O.C. OCCUPANT(CY) CENTERLINE O.C. OCCUPANT(CY) CENTER INC O.C. OCCUPANT(CY) CATCH BASIN OPP. OPPOSITE CO. CLEANOUT TO GRADE O.H. OPPOSITE HAND CAT. CALEANOUT TO GRADE O.H. OPPOSITE HAND CAT. CALEANOUT TO GRADE O.H. OVERTHAND CAT. CALMONT O.F.C. OUTSIDE FLANDED and COM. COMMON O.F.C. OUTSIDE DIAMETER COM. CONTRUCTION PARA PLATE PLATE CONTRUCTION PARA PLATE PLATE OUTSIDE DIAMETER CONTRUCTION PARA PLAS. PLATE PLATE CONTRUCTION PARA PLAS. PLAS. PLAS. CONTRUCTION PARA PLAS.				
CE CATCH HASINI N.LC. NOT IN CONTRACT CLG. CELING N.T.S. NOT TO SCALE CEM. CEMENT NO. or # NUMBER C.C. O.C. CENTER TO CENTER OCC. OCC. PORTICING C.T.G. CLEANOUT TO GRADE O.H. OPPOSITE C.T.G. CLEANOUT TO GRADE O.H. OPPOSITE C.T.G. CLEANOUT TO GRADE O.H. OPPOSITE C.T.G. CLEAR ALL HEART O.H. W.S. OVAL HEAD WOOD SCREW C.M. COLUMN OVERFLOW DRAIN and/or OUTSIDE DAMETER C.M. COLUMN OVERFLOW DRAIN and/or OUTSIDE DAMETER CONSTRUCTION NOINT PART. PART. ONT STUTION CONTR. CONTRUCTON PART PL PLATE C.J. CONSTRUCTION NOINT D. PENNY (NALS) CONTR. CONTRUCTON RET PLYWD. PLWODD CTR. COUNTER PLWYD. PLWYDD. CONTR. CONTRUCTON RET PLWWD. PLWODD			. ,	
CLG. CEILING N.T.S. NOT TO SCALE CEM CEMENT OC. OCCUPANT(CY) CENTERINE O.C. OCCUPANT(CY) CENTERINE O.C. OCCUPANT(CY) CENTERINE O.C. OCCUPANT(CY) CLANOUT OPNG. OPFOID C.O. CLEANOUT OPNG. OPFOITE C.O. CLEANOUT ORADE OH C.A.H.R. CLEAR OH OPPOSITE HAND C.A.H.R. CLEAR ALL HEART OH.W.S. OVAL HEAD WOOD SCREW C.M. COLD WATER OL. OUTSIDE DIAMETER COM. COLD WATER OF.C.I. OWNERTUCTION HEART PART CONST. CONTRUCTION HEART PART PARTIEN C.H. CONSTRUCTION ONT PAS. PLAS. CONTR. CONTRUCTON ONT PLAS. PLAS. CTK. COUNTER SUNK PL. PROPERTY LINC. DA. DIABALED ACCESS RWL. RAIN WATER LEADER DA. DIABALED ACCESS RWL. RAIN WATER LEADER DA. DOOR RCIM. RCIM. D.F. DRAINING FOUNTAIN R.E. RINE REATIEN D.G. DOWNSPOUT RCO				
C.C. OTC. CENTER. INC. OCC. OCCUPANT(CY) CER. TILE CERMUT TIG GRADE OPN.G. OPENING C.O. CLEANOUT TO GRADE OPN.G. OPPOSITE C.O. CLEANOUT TO GRADE O.H. OPPOSITE HAND C.R. CLEAR OPN.G. OPSITE C.A.H.R. CLEARALL HEART O.H. OPPOSITE C.W. COLD WATER O.H. OUTSIDE FACE OF STUD C.W. COLD WATER ONERFLOW DRAIN and/or COM. COMCRETE PR. PAR COM. COMMON ONTRACTOR INSTALLED ONTRACTOR INSTALLED COM. CONTRACTOR PAR. PAR CONTR CONTRACTOR PAR. PAR CONTR CONTRACTOR PL.S. PARONEE CONTR CONTRACTOR PL.Y.C. PROPERTY LINE DET. DOTAL DIAMETER PL. PROPERTY LINE DIA. DIAMETER R.W.L. RANUNGT R.R. D.A. DIAMETER R.A.G. REINFORCING D.A. DIAMETER R.D. ROUND D.F. DRINKING FOUNTAIN R.E. RINELEVATION D.F. DRINKING FOUNTAIN R.E. RINE ELEVATION </td <td>CLG.</td> <td></td> <td>N.T.S.</td> <td></td>	CLG.		N.T.S.	
CENTERLINE O'C ON CENTROL'I CERAMIC TILE OPRIG. OPRIG. COL CERAMIC TILE OPRIG. COLEANOUT TO GRADE C. C. CLEANOUT TO GRADE C. C. C. CLEAN ALL HEART REDWOOD C. C. COLUMA C. C. C. CONSTRUCTION HEART C. H. C. CONSTRUCTION HEART C. H. C. CONSTRUCTION HEART C. H. C. CONSTRUCTION MEART C. D. CONSTRUCTION MEART C. H. C. CONSTRUCTION MEART C. D. CONSTRUCTION MEART C. D. CONSTRUCTION MEART C. D. CONTRACTOR C. M. C. CONTRACTOR C. M. C. CONTRACTOR D. M. DIMENSION C. R. C. M. C. C. POLY VINYL CHLORIDE C. M. C. CONTRACTOR P. L. P. C. POLY VINYL CHLORIDE C. M. C. C. MARCH D. M. DIMENSION C. M. C. C. CONTRACTOR P. L. P. C. POLY VINYL CHLORIDE C. M. C. C. CONTRACTOR P. L. P. C. POLY VINYL CHLORIDE C. M. C. C. CONTRACTOR C. M. C. C. CONTRACTOR C. M. C. C. C. POLY VINYL CHLORIDE C. M. C. C. C. C. POLY VINYL CHLORIDE C. M. C. C. M. C. C. POLY VINYL CHLORIDE C. M. C. C. M. C. C. POLY VINYL CHLORIDE C. M. C. C. M. C. C. POLY VINYL CHLORIDE C. M. C. C. MARCH M. M. D. MARTER C. M. C. C. MARCH C. M. C.				
CER. TILLE OPPL OPE (MAC) C.O. CLEANOUT TO GRADE OPP OPPOSITE C.O. CLEANOUT TO GRADE OPP OPPOSITE ANDIA C.R. CLEANOUT TO GRADE OPP OPPOSITE ANDIA C.R. CLEANOUT TO GRADE OH. WS. OVAL HEAD WOOD SCREW C.W. COLD WATER ON. OVERFLOW DRAIN and/or C.W. COLD WATER ON. OVERFLOW DRAIN and/or CONSTRUCTION HEART P. P. ARTITION CONTRACTOR INSTALLED CONT. CONSTRUCTION JOINT d PENNY (NALS) CONTR. CONTRUCTION JOINT d PENNY (NALS) CONTR. CONTRACTOR PL.VWD PL/VWODD CTR. COUNTER <sunk< td=""> P. P. CONTR. CONTRACTOR PL.W. PROPERTY LINE DIA. DIABELED ACCESS RWJ.RW. RADUS DIM. DIMENSION R.W.L. RADU WATER D.R. DOOR REINF REINF REINF D</sunk<>	0.0010.0.			
C.O. C. CLEANOUT O GRADE OPP. OPPOSITE HAND CI.R. CLEAR ALL HEART O.F.O.S. OUTSIDE FACE OF STUD C.A.H.R. CLEAR ALL HEART O.F.O.S. OUTSIDE FACE OF STUD C.M. COLD WATER O.D. OUTSIDE FACE OF STUD COM. COMMON OUTSIDE FACE OF STUD OUTSIDE DIAMETER COM. COMMON O.F.C.I. OWNER FURNISHED and CONST.COMSTRUCTION HEART PL PART. CONTR.CONSTRUCTION MEART PL PLATE CONTR.CONSTRUCTION MEART PL PLATE CONTR.CONSTRUCTION MEART PL PLATE CONTR.CONSTRUCTION MEART PL PLATE CONTR.CONTRACTOR PLYWD. PLYWOD CONTR.CONTRACTOR PLWD. PLWODD CONTR.CONTRACTOR PLWD. PLWODD CONTR.CONTRACTOR PLWD. PLWODD DET. DETAIL PL PROPERTY LINE DET. DETAIL PL PROPERTY LINE DA. DIABALED ACCESS RWJR.W. ROUNTER ELEVATION A. DAMETER R. GR.DONTAIN R.E. RIM BELVATION D.F. DRIKING FOUNTAIN R.E. RIM BELVATION D.F. DRIKING FOUNTAIN R.E. RIM BELVATION <td< td=""><td></td><td>CERAMIC TILE</td><td></td><td></td></td<>		CERAMIC TILE		
CLEAR CLEAR ALL HEART OF 0.5. OUTSIDE FACE OF STUD C.A.H.R. CLEAR ALL HEART OHW.S. OVAL HEAD WOOD SCREW C.W. COLD WATER OHW.S. OVAL HEAD WOOD SCREW COM. COLDWATER OHW.S. OVAL FEAD WOOD SCREW COM. COLMNN OF 0.5. OUTFRACTOR INSTALLED COM. COMMON OF C.I. CONTRACTOR INSTALLED CONST. CONSTRUCTION HEART PART. PART. CONTR. CONTRUCTION JOINT PHATE PLATE CONT. CONTRUCTION OINT PL. PLASTER CONTR. CONTRACTOR P.V.W. PLVWODD CTSK. COUNTER SUNK P.I. PRESSURE TREATED DET. DETAIL PL. PROPERTY UNE DA. DIASALED ACCESS RWD.RW. REDWOOD REIMER REDWOOD DA. DIASALED ACCESS RWD.RW. REDWOOD REDWORCING S. DOWNSPOUT RE RIM REDWOOD REDWORCING D.F. DRIKNING FOUNTAIN R.A.E. RIM RELEVATION				OPPOSITE
CALH, CLEAR ALL HEART DI AUX OVAL HEAD WOOD SCREW REDWOOD O. OVAL HEAD WOODSCREW OVERTLOW DRAIN and/or OVERTLOW DRAIN AND/OR EVENTLOW				
REDWOOD O.D. OVERFLOW DRAIN and/or CVM. COLD WATER OUTIBLE DIAMETER COM. COMMON OF.C.I. OWNER CURNISHED and CONST. CONSTRUCTION HEART PAR. PART. CONT. CONSTRUCTION HEART PL PLATE CONT. CONTRUCTION JOINT PLAN. PLATE CONT. CONTRUCTION JOINT PLAN. PLATE CONT. CONTRUCTION HEART PL PLATE CONT. CONTRUCTION HEART PL PLATE CONT. CONTRUCTON NEWN P.T. PRESURE TREATED DET. DETAIL PL PROPERTY LINE DIA. DIMAETER R. GRAD. ROUNSPOUT REDO REINFORCING RELED REINFORCING D.S. DOWNSPOUT RECO REQUIRED D.G. DRAWING ROUNTAIN R.G. REUNER D.G. DRAWING ROUNTAIN R.G. REUNERDWOOD C.E. ELECTRICAL RND. ROOM		-		
COL. COLUMN O.F.C.I. OUNMER FUNNISHED and CONNEC COMMON COM. COMMENT PR. CONSTRUCTION PART. PR. CONTR. CONSTRUCTION JOINT PART. PLATE CONT. CONTRACTOR PLAS. PLATIEN CONTR. CONTRACTOR PLWD. PLYWOOD CTR. COUNTER PL. PROPERTY LINE DIA. OF Ø DIAMETER R. OR AD. RAIN WATER LEADER DIA. OF Ø DIAMETER R. OR AD. REINFORCING D.F. DETAL PL. PROPERTY LINE DIA. OF Ø DIAMETER R. OR AD. REINFORCING D.R. DOOR REINFORCING REINFORCING D.R. DORA REINFORCING REINFORCING D.R. DORAWING FOUNTAIN R.E. REINFORCING D.R. DORAWING FOUNTAIN R.E. RIM ELEVATION B.B. DORAWING FOUNTAIN R.E. RUM ELAVITON B.C. ELACH R.A. ROUD FENING	.			
COM. COMMON COMMET FORMER JAME CONC CONCRETE PR PARTITION CONSTRUCTION HEART PLATE PARTITION CONT CONSTRUCTION HEART PLATE CJ. CONSTRUCTION JOINT d PENNY (NALS) CONT CONTINUOUS PLAS PLASTER CONT CONTRUCTOR HEART PLAS PLASTER CONT CONTRUCTOR HEART PLAS PLASTER CONT CONTRUCTOR HEART PLAS PRESOURE TREATED CONT DIAMETER R. OR ARA RADUS PLAS DA DIABALED ACCESS RWD.F.W. REDWOOD RED DA DIABALED ACCESS RWD.F.W. REDWOOD RED DF. DRINKING FOUNTAIN R.E. REND REQUIRED DF. DRINKING FOUNTAIN R.E. RM ELEY ELEC ELECTRIC OF ELECTRICA RND. ROUND HEAD METAL SCREW ELEV ELEVATION R.H. W.S. ROUND HEAD METAL SCREW ELEV. ELEVATION S.H. SHEATHING SHEAT HEANED				
CONC. CONCRETE PR. PART. PART. CONSTRUCTION HEART PL PLATE C.J. CONSTRUCTION JOINT d PENNY (NALS) CONTR. CONTRACTOR PLYMD. PLYMOD CONTR. CONTRACTOR PLYWD. PLYMOD CTSK. COUNTER PV.C. POLYVINUL CHLORIDE DET. DETAIL PL. PRESSURE TREATED DET. DETAIL PL. PROPERTY LINE DA. DIMETER R.W.L. RAIN WATER LEADER DA. DISABLED ACCESS RWU.L. RAIN WATER LEADER D.R. DOOR REINFORCING REURFORCING D.R. DORAMUNG R.A.G. RECURRD D.R. DORAMUNG R.A.G. RECURRD D.R. DORAMUNG R.A.G. RECURRD D.R. DORAMUNG R.A.G. RECURRD B.S. DOWNSPOUT RCO RAIN. ROCOR B.S. DOWNSPOUT R.G. ROUND RELEVATION B.K. R.A.G. RCUIRED RAIN. E.C. ELECTRICA R.D. ROUND RELEVATION E.L. RULOSE and/or ENCLOSURE S.D. SUMOH PEAD METAL SCREW E			0.F.C.I.	
C.H. CONSTRUCTION HEART PLATE C.J. CONSTRUCTION JOINT d CONTR. CONTRACTOR PLYWD. CONTR. CONTRACTOR PLYWD. CONTR. CONTRACTOR PLYWD. CTSK. COUNTER SUNK P.T. DIA. DIAMETER SUNK P.T. DIA. DIAMETER R. or RAD. RAIN VATER LEADER RAIN WATER LEADER DA. DISABLED ACCESS RWJL. ROWN RAWING R.W.L. RA. RETURN AIR GRILLE D.R. DR. DOOR REINFORCING DWG. DRAWING RANGE ONTAIN RE. R.A. RETURN AIR GRILLE D.R. D.F. DRINKING FOUNTAIN RE. R.M. ROO ROM RELOCING E.V. ELCHTIC OF ELECTRICAL RND. ROUND HEAD METAL SCREW R.H.M.S. ROUND HEAD METAL SCREW EQUIP EQUIPMENT S.T.S.M.S. SHET TAPPING SHET EL. ELCHTRIC OF CONCRETE S.C. SOLIA CORE E.J. EXPANSIO	CONC.		PR.	
CJ. CONSTRUCTION JOINT - PENNY (NALS) CONT CONTINUOUS PLAS PLASTER CONTR CONTRACTOR PLYWD. PLASTER CONTR CONTRESUNK PLYWD. PLYWD. DET. DETAIL PL PROPERTY LINE DA. DIAMETER R. OR AD. RADUS MADES DA. DISABLED ACCESS RWD.F.W. REDWOOD REOD DR. DOOR REINF. REINFORCING DS. DOWNSPOUT RE GOURED REQUIRED DF. DRINKING FOUNTAIN R.E. REM ELEVATION and/or DUGLAS FIR R.D. ROOF DRAIN A. EACH R.M. ROUM E.V. ELECTRIC or ELECTRICAL RLM.S. ROUND HEAD WOOD SCREW ELOU ELEVATION R.H.M.S. ROUND HEAD WOOD SCREW EQUIPMENT S.M. SHEET METAL SCREW CE EXPANSION JOINT S.M. SHEET METAL SCREW E.V. EXPOSED S.O. SOUMEAE SUN				
CONTCONTRACTORPLASPLASTERCONTRACTORPLYWDPLYWOODCTRCOUNTER SUNKP.T.PRESSURE TREATEDDET.DETAILPL.PROPERTV LINEDIA. of ØDIAMETERR. or RADRADIUSDIMDIMENSIONR.W.L.RAIN WATER LEADERDA. of ØDAMETERR. or RADRADIUSDA.DISABLED ACCESSRWD/R.W.REINFORCINGDS.DOWRSPOUTREODREINFORCINGD.F.ORAWINGR.A.G.RETURN AIR GRILLED.F.DRINKING FOUNTAINR.E.RIM ELEVATIONandro DOUGLAS FIRR.D.ROOGH DRAINE.A.EACHRM.ROOGH DRAINE.W.EACH WAYR.O.ROUND HEAD METAL SCREWELC.ELECTRIC or ELECTRICALRND.ROUND HEAD METAL SCREWELC.ELECTRIC or ELECTRICALRND.ROUND HEAD METAL SCREWELC.ELECTRIC OR ELECTRICALRND.SHEET METAL SCREWELC.ELECTRIC OR ELECTRICALRND.SHEET METAL SCREWELC.ELECTRIC OR ELECTRICALRND.SHEET METAL SCREWEQUIP.EQUIP.S.M.SHEET METAL SCREWEQUIP.EQUIP.S.M.SHEET METAL SCREWELC.ELECTRICORS.M.SHEET METAL SCREWELC.ELECTRICORS.M.SHEET METAL SCREWELC.ELECTRICORS.M.SHEET METAL SCREWE.J.EXPANSION JOINTS.M.SHEET METAL SCREWF.O.C.FACE OF FINISH				
CTR. COUNTER P.V.C. POLYVEL CHLORIDE CTSK. COUNTER SUNK P.T. PRESSURE TREATED DIA. 070 DIAMETER R. or RAD. RADIUS DIM. DIMENSION R.W.L. RAIN WATER LEADER D.A. DISABLED ACCESS RWD,R.W. REINFORCING D.R. DOOR REINF. REINFORCING D.S. DOWNSPOUT REOD REOURED D.G. DRINKING FOUNTAIN R.E. RELEVATION andro DOUGAS FIR R.D. ROOF DRAIN EA EACH R.D. ROOF DRAIN ELC ELECTRIC or ELECTRICAL RND. ROUND RLW. EACH WAY R.O. ROUND HEAD METAL SCREW ELC ELECATRIC or ELECTRICAL RND. ROUND BEAD MODD SCREW ENCL. ENCLOSE and/or ENCLOSURE SSD. SEE TRUCTURAL DRAWINGS EQUIP. EUVATION S.M. SHEET METAL SCREW EQUIP. EVAPANSION JOINT S.M. SHEET METAL SCREW EX. EXPANSION JOINT S.M. SHEET METAL SCREW F.O.C.				· · · · ·
CTSK. COUNTER SUNK P.T. PRESSURE TREATED DET. DETAIL P.L. PRESSURE TREATED DIA. DIAMETER R. or RAD. RADIUS DIM. DIMENSION R.W.L. RAIN WATER LEADER D.A. DISABLED ACCESS RWD./R.W. REDWOOD D.F. DOWNSPOUT REGU REQUIRED D.F. DRINKING FOUNTAIN R.E. RIM ELEVATION andro DOUGLAS FIR R.D. ROOF DRAIN EA. EACH R.D. ROUGH OPENING ELC. ELECATIC or ELECTRICAL RND. ROUND HEAD METAL SCREW ELV. ELEVATION R.H.W.S. ROUND HEAD METAL SCREW EQUIP. EQUIPMENT S.M. SHEET THEATED EQUIP. EXPANSION S.M. SHEET METAL SCREW EXT. EXTRENCE S.V. SHUT OFF VALVE EXT. EXTRENCE S.V. SUID ORE F.O. FACE OF STUD S.Q. SQLARE F.O. FACE OF STUD S.Q. SQLARE F.O. FACE OF STUD S.Q. SQLARE				
DET. DETALL PL PROPERTY LINE DIA. or 00 DIMMETER R. or RAD. RADIUS DIM. DIMENSION R.W.L RAIN WATER LEADER D.A. DISABLED ACCESS RWD/R.W. RELIMON D.R. DOOR REINF. REINFORCING D.S. DOWNSPOUT REOD REOURED DWG. DRAWING R.A.G. RETURN AIR GRILLE D.F. DRINKING FOUNTAIN R.E. RIM ELEVATION andro DOUGLAS FIR R.D. ROOF DRAIN E.K. EACH WAY R.O. ROUGH OPENING ELCC ELECTRIC or ELECTRICAL RND. ROUND HEAD METAL SCREW ELCL. ELECTRIC or ELECTRICAL R.H.M.S. ROUND HEAD MOD SCREW ELCL. ELECATRIC or ELECTRICAL R.H.M.S. ROUND HEAD METAL SCREW ELCL. ELECATRIC OR ELECTRICAL R.H.M.S. ROUND HEAD METAL SCREW ELCL. ELCONTRIC TRUCOSURE S.S. SELF TAPPING SHEET C.E. FOUPMENT S.M.S. SHEET METAL EVANSION JOINT S.M.S. SHEET METAL SCREW EXP. EXPOSED S.O.V. SHUT OFY VALVE EXT. EXTERIOR S.M.S. SHEET METAL SCREW <t< td=""><td></td><td></td><td></td><td></td></t<>				
DIM. DIMENSION R.W.L. RAIN WATER LEADER DA. DISABLED ACCESS RWD./R.W. REDWOOD REQUIRED DR. DOOR RED REQUIRED DWG. DRAWING R.A.G. RETURN AIR GRILLE D.S. DOWNSPOUT REGD REQUIRED DWG. DRAWING R.A.G. RETURN AIR GRILLE D.F. DRINKING FOUNTAIN R.E. RIM ELEVATION andor DOUGAS FIR R.D. ROOF DRAIN EA. EACH RM. ROOM ELEV. ELEVATION R.H.M.S. ROUND HEAD MOOD SCREW ELEV. ELEVATION R.H.M.S. ROUND HEAD WOOD SCREW POL. EACHMAY R.O. ROUND HEAD WOOD SCREW EQUIP. EQUIPENT R.H.M.S. ROUND HEAD WOOD SCREW EQUIP. EQUAL ST.S. SEE STRUCTURAL DRAWINGS E.A. EXPANSION JOINT S.M. SHEAT HING E.J. EXPANSION JOINT S.M. SHEAT METAL SCREW F.O.C. FACE OF STUD				
D.A. DISABLED ACCESS RWD/RW, REDWOOD DR. DOOR REINF-REINFORCING D.S. DOWNSPOUT REOD REUNFORCING DWG. DRAWING R.A.G. RETURN AIR GRILLE DWG. DRAWING FOUNTAIN R.E. RIM ELEVATION and/or DOUGLAS FIR R.D. ROOF DRAIN E.A. EACH RM. ROOM EW. EACH WAY R.O. ROUGH OPENING ELEC. ELECTRIC or ELECTRICAL RND. ROUND HEAD METAL SCREW ELV ELEVATION R.H.W.S. ROUND HEAD METAL SCREW EQU. EUCLDSE and/or ENCLOSURE SS. SEE STRUCTURAL DRAWINGS EQ. EQUIPMENT METAL SCREW METAL SCREW EX. EXPANSION S.M. SHEET METAL EJ. EXTENDOR S.M. SHEET METAL EJ. EXTERNOR S.M. SIMILAR F.O.G. FACE OF CONCRETE S.C. SOLID CORE F.O.F. FACE OF FIND S.F. SQUARE F.O.F. FACE OF FINSH S.F. SQUARE F.O.F. FACE OF FINSH S.F. SQUARE F.F. FINISH SLAB S.S. STANDARD F.F.	DIA. or Ø	DIAMETER		
DR. DOOR REINF. REINFCRCING D.S. DOWNSPOUT REQU REQUIRED DWG. DRAWING FOUNTAIN R.A.G. RETURN AIR GRILLE D.F. DRINKING FOUNTAIN R.E. RIM ELEVATION EA. EACH RM. ROOR DRAIN EA. EACH WAY R.O. ROURD PEAING ELC. ELECTRIC or ELECTRICAL RND. ROUND HEAD METAL SCREW ELV. ELEVATION R.H.M.S. ROUND HEAD METAL SCREW EQUIP. ELEVATION R.H.M.S. ROUND HEAD MOOD SCREW EQUIP. EQUAL S.T.S.M.S. SEE STRUCTURAL DRAWINGS EQ. EQUAL S.T.S.M.S. SEE STRUCTURAL DRAWINGS EQ. EQUAL S.T.S.M.S. SHET THETAL EQUIP. EQUIP. S.M.S. SHET THETAL EQUIP. EQUIP. S.M.S. SHET THETAL EQUIP. EXPANSION JOINT S.M. SHET THETAL EXT. EXTENDOR S.M.S. SMILAR EVACOP FINISH		DIMENSION		
D.S. DOWNSPOUT REOD RECURN AIR GRILLE DWG. DRAWING R.A.G. RETURN AIR GRILLE D.F. DRINKING FOUNTAIN R.E. RIM ELEVATION and/or DOUGLAS FIR R.D. ROOF DRAIN E.A. EACH RM. ROOM E.W. EACH WAY R.O. ROUGH OPENING ELEC. ELECTRIC or ELECTRICAL RND. ROUND HEAD METAL SCREW ELEV. ELEVATION R.H.W.S. ROUND HEAD METAL SCREW EQUIP EQUIPMENT SSE. STRUCTURAL DRAWINGS EQ. EQUIPMENT S.M. SHEET METAL EX. EXPANSION JOINT S.M. SHEET METAL EX. EXPANSION JOINT S.M. SHILLAR F.O.C. FACE OF CONCRETE S.C. SOLID CORE F.O. FACE OF FANSONRY SPEC. SPECIFICATION F.O.F. FACE OF FINISH S.F. SQUARE F.F. FINISH SLAB S.S. STAINLESS STELL F.F. FINISH SLAB S.S. STAILESS STELL F.F. FINISH SLAB S.A. STANDARD F.F. FINISH SLAB S.A. STANDARD F.F. FINISH SLAB S.A.G. S				
DWG. D.F.DRNKING FOUNTAIN and/or DOUGLAS FIR and/or DOUGLAS FIR R.D.R.A.G. RETURN AIR GRILLEEA.EACHR.M.ROOMEA.EACH WAYR.O.ROUCH OPENINGEL.ELECTRIC or ELECTRICAL RULLRND.ROUND HEAD METAL SCREWEL. orELEVATIONR.H.W.S.ROUND HEAD METAL SCREWEQ.EQUALST.S.M.S.SEE STRUCTURAL DRAWINGSEQ.EQUALST.S.M.S.SEE STRUCTURAL DRAWINGSEQUIP.EQUIPEQUIPMENTMETAL SCREWEQUIP.EQUIPMENTS.M.SHEET METAL SCREWEQUIP.EQUIPMENTS.M.SHEET METAL SCREWEX.EXPANSION JOINTS.M.SHEET METAL SCREWEX.EXPANSION JOINTS.M.SHEET METAL SCREWEX.EXPANSION JOINTS.M.SHEET METAL SCREWEX.EXTENDORS.M.SHEET METAL SCREWEX.EXPOSEDS.O.V.SUID COREF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.F.FACE OF FINISHS.F.SQUAREF.O.F.FACE OF FINISHS.F.SQUAREF.O.F.FACE OF FINISHS.F.SQUAREF.F.FINISHED FLOORSTAGSTAGGEREDF.F.FINISH SLABS.S.STAINLESS STEELF.E.FIRE EXTINGUISHER CABINETSTRUCT.STRUCTURALF.E.FIRE EXTINGUISHER CABINETSTORSTORAGEF.H.FIRE EXTINGUISHER CABINETSTORAGESUPLY AR GRILLEF.L.F	D.S.		REINF. REQ'D	REQUIRED
and/or DOUGLAS FIRR.D.ROOF DRAINEA.EACHRM.ROOFROUGH OPENINGEW.EACH WAYR.O.ROUGH OPENINGELE.ELECTRIC or ELECTRICALRND.ROUND HEAD METAL SCREWRLEL.ELEV.ELEVATIONR.H.W.S.ROUND HEAD METAL SCREWEQUALST.S.M.S.SEE STRUCTURAL DRAWINGSEQ.EQUALST.S.M.S.SEE STRUCTURAL DRAWINGSEQUIPEQUIPMENTSMS.SEE STRUCTURAL DRAWINGSEQ.EXPANSION OINTS.M.SHEET METAL SCREWEX.EXPANSION JOINTS.M.SHEET METAL SCREWEX.EXPANSION JOINTS.M.SIMILARF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.F.FACE OF FUDSQ.SQUAREF.O.F.FACE OF FINISHS.F.SQUAREF.F.FINISHED FLOORSTO.STANDARDF.S.FINISHED FLOORSTO.STANDARDF.E.FIRE EXTINGUISHER CABINCTSTRUCT.F.E.FLAT HEAD WOOD SCREWTHRES.F.H.FLAT HEAD WOOD SCREWTHRES.F.L.FLAT HEAD WOOD SCREWTHRES.F.L.FLAT HEAD WOOD SCREWTHRESS OTHERWISE NOTEDG.L.GALVANIZEDT.O.S.TOP OF GURB	DWG.	DRAWING	R.A.G.	RETURN AIR GRILLE
EA.EACHRM.ROOME.W.EACH WAYR.O.ROUGH OPENINGELEC.ELECTRIC or ELECTRICALR.D.ROUNDELE.OTR.H.M.S.ROUND HEAD METAL SCREWELEV.ELEVATIONR.H.W.S.ROUND HEAD MODD SCREWENCL.ENCLOSE and/or ENCLOSURESSD.SEE STRUCTURAL DRAWINGSEQUIP.EQUIPMENTMETAL SCREW(E)EXISTINGSHEATH.SHEATH.EJ.EXPANSION JOINTS.M.S.SHEET METALEJ.EXPANSION JOINTS.M.S.SHEET METALEX.EXPANSION JOINTS.M.S.SHEET METALF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.S.FACE OF MASONRYSPEC.SOLID COREF.O.S.FACE OF MASONRYSPEC.SOLID COREF.O.F.FACE OF FAULST.G.STANDARDF.F.FINISH SLABS.T.STANDARDF.F.FINISH SLABS.S.STANDARDF.E.FIRE EXTINGUISHERST.G.STANDARDF.E.FIRE HYDRANTSTRCSTORAGEF.L.STEL STINCUCTI STRUCTURALSTHRESHOLDF.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.M.S.FLAT HEAD METAL SCREWT.J.TOOLED JOINTF.E.FIRE HYDRANTSTRCSTGRAGEF.E.FIRE HYDRANTSTRCSTGRAGEF.L.STELE STINGUISHERSTR.STEELF.G.FLOOR DRAINT.J.TOOLED JOINTF.G.FLO	D.F.			
E.W.EACH WAYR.O.ROUGH OPENINGELECELECTRIC or ELECTRICALRND.ROUNDELOTELECTRIC or ELECTRICALR.H.M.S.ROUND HEAD METAL SCREWELV.ELEVATIONR.H.W.S.ROUND HEAD MODD SCREWENCL. OSE and/or ENCLOSURESD.SEE STRUCTURAL DRAWINGSEQ.EQUALS.T.S.M.S.SELF TAPPING SHEETEOUIP.EQUIPMENTMETAL SCREWEX.EXPANSIONS.M.SHEET METALEX.EXPANSION JOINTS.M.S.SHEET METAL SCREWEX.EXPANSION JOINTS.M.S.SHEET METAL SCREWEX.EXPANSION JOINTS.M.S.SHEET METALEX.EXPANSION JOINTS.M.S.SHEET METALEX.EXPANSION JOINTS.M.S.SHEET METALEX.EXPANSION JOINTS.M.S.SIMILARF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.F.FACE OF FINISHS.F.SQUAREF.O.F.FACE OF FINISHS.F.SQUAREF.F.FINISHED FLOORSTAG.STANDARDF.S.FINISHED FLOORSTO.STANDARDF.E.FIRE EXTINGUISHER CABINCTSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.G.SUPLY AIR GRILLEF.H.M.S.FLAT HEAD METAL SCREWSA.G.SUPLY AIR GRILLEF.H.M.S.FLAT HEAD WOOD SCREWTHRES.THRESHOLDF.D.FOUNDATIONT.O.G.TOP OF BEAMFND.FOUNDATIONT.O.S.TOP OF STEEL OR SHEATHIN	EA.	EACH		
EL. orR.H.M.S.ROUND HEAD METAL SCREWELEV.ELEVATIONR.H.W.S.ROUND HEAD WOOD SCREWENCL.ENCLOSE and/or ENCLOSURESS.D.SEE STRUCTURAL DRAWINGSEQUIP.EQUIPMENTMETAL SCREW(E)EXISTINGSHEATH.SHEATH.(E)EXISTINGSHEATH.SHEATH.EJ.EXPANSION JOINTS.M.SHEATH.EJ.EXPANSION JOINTS.M.SHEATH.EYP.EXPOSEDS.O.V.SHUT OFF VALVEEYT.EXTERIORSI.M.SIMILARF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.M.FACE OF STUDSQ.SQUAREF.O.F.FACE OF STUDSQ.SQUAREF.F.FINISH SLABST.G.STAGGEREDF.F.FINISH DFLOORSTD.STANDARDF.S.FINISHS SLABS.S.STAINLESS STEELF.E.FIRE EXTINGUISHER CABINETSTRORSTORAGEF.HFLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLEF.HS.FLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLEF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLEF.H.S.FLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLEF.H.S.FLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLEF.H.FLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLEF.H.FLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLEF.H.FLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLE </td <td>E.W.</td> <td>EACH WAY</td> <td>R.O.</td> <td>ROUGH OPENING</td>	E.W.	EACH WAY	R.O.	ROUGH OPENING
ENCL. ENCLOSE and/or ENCLOSURE SSD. SEE STRUCTURAL DRAWINGS EQUIP. EQUIPMENT METAL SCREW EX. EXPANSION S.M. SHEATH. EJ. EXPANSION JOINT S.M. SHEATH. SHEATH. EJ. EXPANSION JOINT S.M. SHEATH. SHEATH. EJ. EXPANSION JOINT S.M. SHEET METAL EVOSED S.O.V. SHUT OFF VALVE EX. EXTERIOR SIM. SIMILAR F.O.C. FACE OF MASONRY SPEC. SPECIFICATION F.O.F. FACE OF MASONRY SPEC. SOLID CORE F.O.F. FACE OF FINISH S.F. SQUARE FEET FIN. FINISH SLAB STAG. STANDARD F.E. FIRE EXTINCUISHER CABINET STR STANDARD F.E. FIRE EXTINCUISHER CABINET STRUCT. STRUCTURAL F.H FIRE EXTINCUSHER CABINET STRUCT. STRUCTURAL F.E. FIRE EXTINOUSHER CABINET STRUCT. STRUCTURAL F.H. FIRE EXTINOUSHER CABINET STRUCT. STRUCTURAL <		ELECTRIC or ELECTRICAL	RND.	ROUND
ENCL. ENCLOSE and/or ENCLOSURE SSD. SEE STRUCTURAL DRAWINGS EQUIP. EQUIPMENT METAL SCREW EX. EXPANSION S.M. SHEATH. EJ. EXPANSION JOINT S.M. SHEATH. SHEATH. EJ. EXPANSION JOINT S.M. SHEATH. SHEATH. EJ. EXPANSION JOINT S.M. SHEET METAL EVOSED S.O.V. SHUT OFF VALVE EX. EXTERIOR SIM. SIMILAR F.O.C. FACE OF MASONRY SPEC. SPECIFICATION F.O.F. FACE OF MASONRY SPEC. SOLID CORE F.O.F. FACE OF FINISH S.F. SQUARE FEET FIN. FINISH SLAB STAG. STANDARD F.E. FIRE EXTINCUISHER CABINET STR STANDARD F.E. FIRE EXTINCUISHER CABINET STRUCT. STRUCTURAL F.H FIRE EXTINCUSHER CABINET STRUCT. STRUCTURAL F.E. FIRE EXTINOUSHER CABINET STRUCT. STRUCTURAL F.H. FIRE EXTINOUSHER CABINET STRUCT. STRUCTURAL <		ELEVATION	R.H.M.S.	ROUND HEAD METAL SCREW
EQ.EQUIPEQUIPMENTS.T.S.M.S.SELF TAPPING SHEET METAL SCREWEQUIPEQUIPMENTMETAL SCREWEX.EXPANSIONS.M.SHEATHINGEX.EXPANSION JOINTS.M.S.SHEET METALEXP.EXPOSEDS.O.V.SHUT OFF VALVEEXT.EXTERIORSIMSIMILARF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.M.FACE OF FINISHS.F.SQUAREF.O.S.FACE OF FINISHS.F.SQUAREF.N.FINISH SLABS.S.STANDARDF.F.FINISHS LABS.S.STANDARDF.E.FIRE EXTINGUISHERSTLSTEELF.E.FIRE EXTINGUISHER CABINETSTRUCT.STRUCT.F.H.F.IRE HYDRANTSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.L. OFTR.FLOORTAGTONGUE & GROOVEF.D.FLOOR DRAINT.J.TOOLED JOINTF.G.FOOTINGT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF STEEL or SHEATHINGG.I.GALVANIZEDT.O.S.TOP OF WALKGALGAUGETYP.TYPICALGALU-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGLU-LAMGLU-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGLU-LAMGLU-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGLU-LAMINATEDU.O.S.UNESS OTHERWISE NOTEDGLU-LAMI GLUE-LAMINATEDU.O.S.UNLE			SSD.	SEE STRUCTURAL DRAWINGS
(E)EXISTINGSHEATH.SHEATH.SHEATH.EX.EXPANSION JOINTS.M.SHEATH.SHEATH.EJ.EXPANSION JOINTS.M.S.SHEET METAL SCREWEXP.EXPOSEDS.O.V.SHUT OFF VALVEEXT.EXTERIORSIM.SIMILARF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.M.FACE OF FINISHS.F.SQUAREF.O.F.FACE OF FINISHS.F.SQUARE FEETF.N.FINISHSTAG.STANGEREDF.S.FINISH SLABS.S.STAINLESS STEELF.E.FIRE EXTINGUISHERSTO.STANDARDF.H.FIRE EXTINGUISHER CABINETSTOR.STORAGEF.H.FIRE HYDRANTSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.FLOORTAGTONGUE & GROOVEF.D.FLOOR DRAINT.J.TOOLED JOINTF.G.FOOTINGT.O.S.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF CURB or CONCRETEGALV.GALVANIZED IRONT.O.W.TOP OF WALKGA.GAUGETYP.TYPICALGLU-LAMGUE-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGUU-LAMGUE-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGUU-LAMGUE-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGUU-LAMGUE-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGUU-LAMGUE-LAMINATEDU.O.S.UNLESS OTHERWISE NOTE				SELF TAPPING SHEET
EX.EXPANSIONS.M.SHEET METALE.J.EXPANSION JOINTS.M.S.SHEET METAL SCREWEXP.EXPOSEDS.O.V.SHUT OFF VALVEEXT.EXTERIORSIM.SIMILARF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.S.FACE OF STUDSQ.SQUAREF.O.S.FACE OF FINISHS.F.SQUAREF.N.FINISHED FLOORSTAGE REEDF.F.FINISHED FLOORSTANDARDF.S.FINISH SLABS.S.F.E.FIRE EXTINGUISHERSTOR.F.E.FIRE EXTINGUISHER CABINETSTOR.F.H.M.FLAT HEAD METAL SCREWSA.G.F.H.M.S.FLAT HEAD METAL SCREWSA.G.F.H.M.S.FLAT HEAD METAL SCREWSA.G.F.D.FLOOR DRAINT.J.TG.FOOTINGT.O.B.FD.FOOTINGT.O.B.FD.FOUNDATIONT.O.C.FOD.FOUNDATIONT.O.C.GALVGALVANIZEDT.O.S.GALGALVANIZED IRONT.O.W.GL.GGLASSU.O.N.GLU-LAMGLU-LAMINATEDU.O.S.GLU-LAMGLU-LAMINATEDU.O.S.GLU-LAMGLU-LAMINATEDU.O.S.GLU-LAMGLU-LAMINATEDU.O.S.GLU-LAMGLU-LAMINATEDU.O.S.GLU-LAMGLU-LAMINATEDU.O.S.GLU-LAMGLU-LAMINATEDU.O.S.GLU-LAMGLU-LAMINATEDU.O.S.GALVGALVES OTHERWISE SOTHER <td>EQUIP. (F)</td> <td></td> <td></td> <td></td>	EQUIP. (F)			
L.J.EXPANSION JOINTS.M.S.SHEET METAL SCREWEXP.EXPANSION JOINTS.M.S.SHUT OFF VALVEEXT.EXTERIORS.M.S.SIMILARF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.M.FACE OF ASONRYSPEC.SPECIFICATIONF.O.F.FACE OF STUDSQ.SQUAREF.O.F.FACE OF FINISHS.F.SQUARE FEETFIN.FINISHS.F.SQUARE FEETF.F.FINISHED FLOORSTD.STANDARDF.S.FINISHS LABS.S.STAILLESS STEELF.E.FIRE EXTINGUISHER CABINETSTOR.STORAGEF.H.FIRE HYDRANTSTRUCT.STORAGEF.H.FIRE HYDRANTSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPLY AIR GRILLEF.H.W.S.FLAT HEAD WOOD SCREWTHRES.THRESHOLDFL. or FLR.FLOORT.G.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF GURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZEDT.O.S.TOP OF OR CORCRETEGALV.GALVANIZEDT.O.S.TOP OF OR CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL OR SHEATHINGG.I.GALVANIZEDT.O.S.TOP OF STEEL OR SHEATHINGG.I.GLAVANIZEDT.O.S.TOP OF STEEL OR SHEATHINGGL.GLU-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGUL-LAMGUDE-LAMINATED<	EV			
EAP.EAT.EATOSEDS.O.V.SHUT OFF VALVEEXT.EXTERIORSIM.SIMILARF.O.C.FACE OF CONCRETES.C.SOLID COREF.O.M.FACE OF STUDSQ.SQUAREF.O.F.FACE OF FINISHS.F.SQUARE FEETFIN.FINISHSTAG.STAGGEREDF.F.FINISHED FLOORSTD.STANDARDF.E.FIRE EXTINGUISHERSTD.STANDARDF.E.FIRE EXTINGUISHER CABINETSTOR.STORAGEF.H.FIRE HYDRANTSTRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.FIRE HYDRANTSTRUCTURALF.H.M.S.FLAT HEAD WOOD SCREWTHRES.THRESHOLDF.L. or FLR.FLOOR TO.B.TOP OF BEAMFND.FOUNDATIONT.O.B.TOP OF BEAMGALV.GALVANIZEDT.O.S.TOP OF BEAMGALV.GALVANIZEDT.O.S.TOP OF OTHRE OCONCRETEGALV.GALVANIZED IRONT.O.W.TOP OF WALKGA.GADEV.T.R.VERTICALGRD.GRADEV.T.R.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICALHOW.HARDWAREV.G.VINYL COMPOSITION TILEHM.HOLLOW COREV.C.T.VINT MALE COVERINGHORIZ.HORIZONTALV.O.V.VINCE COVERINGHT.HEIGHTV.I.F.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINHT.HEIGHT	E.J.	EXPANSION JOINT		
F.O.C.FACE OF CONCRETESIMILARF.O.M.FACE OF MASONRYSPEC.SOLID COREF.O.S.FACE OF STUDSQ.SQUAREF.O.F.FACE OF FINISHS.F.SUARE FEETFIN.FINISHS.F.SUARE FEETF.N.FINISH BLABS.S.STANDARDF.E.FIRE EXTINGUISHERSTL.STEELF.H.FIRE EXTINGUISHER CABINETSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.G.SUPLY AIR GRILLEF.H.W.S.FLAT HEAD METAL SCREWS.G.SUPLY AIR GRILLEF.H.S.FLOOR DRAINT.J.TOOLED JOINTF.G.FOOTINGT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF STEEL or SHEATHINGGALV.GALVANIZED IRONT.O.S.TOP OF STEEL or SHEATHINGGLU-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGLU-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VERT.VERT.VERTICAL GRAINV.T.R.HT.HEIGHTV.I.F.VERTICAL GRAINHT.HOLOW WETALV.O.C.VINTURUSETON TILEHDW.HARDWAREV.G.VOLP.VOLE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER RESISTANTINSUL.INSULATIONWP.WATER RESISTANTINSUL.INSULATIONWP.WATER RESISTANTINSUL.INSULATIONWP.WATER	EAP.	EXPUSED	S.O.V.	SHUT OFF VALVE
F.O.M.FACE OF MASONRYSPEC.SPECIFICATIONF.O.S.FACE OF STUDSQ.SQUAREF.O.F.FACE OF FINISHS.F.SQUARE FEETFIN.FINISHSTAG.STAQGEREDF.F.FINISHED FLOORSTD.STANDARDF.S.FINISH SLABS.S.STAINLESS STEELF.E.FIRE EXTINGUISHERSTL.STEELF.H.FIRE EXTINGUISHER CABINETSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD WOOD SCREWTAGETONGUE & GROOVEF.D.FLOOR DRAINT.J.TOOLED JOINTFTG.FOUNDATIONT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF STEEL or SHEATHINGGALV.GALVANIZEDT.O.S.TOP OF VALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGUEL-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VERT.GYP. BD.GYPSUM BOARDVERT.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFUN FIELDHT.HOLOW WETALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER RESISTANTINSUL.INSULATIONWP.WATER RESISTANTINV.INVERTW.D.WINDOW DIMENSIONJ.H.JOINTWP.WATER RESISTANTINV.INVERTW.D.<			SIM.	SIMILAR
F.O.F.FACE OF FINISHSQ.SQUAREF.O.F.FACE OF FINISHS.F.SQUARE FEETFIN.FINISHSTAG.STAGGEREDF.F.FINISHED FLOORSTD.STANDARDF.S.FINISH SLABS.S.STAINLESS STEELF.E.FIRE EXTINGUISHERSTD.STORAGEF.H.FIRE EXTINGUISHER CABINETSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD MODD SCREWTHRES.THRESHOLDFL. or FLR.FLOORT>OOLED JOINTFTG.FOOTINGT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF STEEL or SHEATHINGG.I.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.W.TOP OF WALKGA.GAUGETYP.TYPICALGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE NOTEDGUU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VERTICALGYP. BD.GYPSUM BOARDVERT.VERTICALHT.HEIGHTV.I.F.VERTICALHT.HEIGHTV.I.F.VERTICALHNW.HARDWAREV.G.VINTU WALL COVERINGHORIZHORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER RESISTANTINSUL.INSUE DIAMET	F.O.M.	FACE OF MASONRY	SPEC.	SPECIFICATION
HN.HINSHSTAG.STAGGEREDF.F.FINISHED FLOORSTD.STANDARDF.S.FINISH SLABS.S.STANDARDF.E.FIRE EXTINGUISHERSTL.STEELF.E.FIRE EXTINGUISHER CABINETSTRUCT.STRUCTURALF.H.FIRE HYDRANTSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD MOOD SCREWTHRES.THRESHOLDF.D.FLOORT>OOLED JOINTFTG.FOUNDATIONT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF STEEL OR SHEATHINGG.I.GALVANIZEDT.O.S.TOP OF STEEL OR SHEATHINGG.I.GALVANIZED IRONT.O.V.TOP OF STEEL OR SHEATHINGGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VERTICALHDW.HARDWAREV.G.VIENT THROUGH ROOFGYP.BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VINYL COMPOSITION TILEH.G.HOLLOW WETALV.W.C.VINYL COMPOSITION TILEH.M.HOLLOW WEREALV.W.C.VINYL WALL COVERINGHDW.HARDWAREV.G.VINYL WALL COVERINGHDW.HARDWAREV.G.VINYL WALL COVERINGHDW.HARDWAREV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER REASIST	F.O.S.	FACE OF STUD	SQ.	SQUARE
F.S.FINISH SLABSTAINLESS STEELF.E.FIRE EXTINGUISHERST.STEELF.E.C.FIRE EXTINGUISHER CABINETSTOR.STORAGEF.H.FIRE HYDRANTSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD MOOD SCREWTHRES.THRESHOLDF.D.FLOOR DRAINT.J.TOOLED JOINTFTG.FOUNDATIONT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.V.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP. BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VINYL COMPOSITION TILEH.G.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER RESISTANTINSUL.INSULATIONWP.WATER RESISTANTINV.INVERTW.M.WATER RESISTANTINV.INVERTW.D.WITH </td <td>F.O.F. FIN</td> <td>FINISH</td> <td></td> <td></td>	F.O.F. FIN	FINISH		
F.S.FINISH SLABSTAINLESS STEELF.E.FIRE EXTINGUISHERST.STEELF.E.C.FIRE EXTINGUISHER CABINETSTOR.STORAGEF.H.FIRE HYDRANTSTRUCT.STRUCTURALF.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD MOOD SCREWTHRES.THRESHOLDF.D.FLOOR DRAINT.J.TOOLED JOINTFTG.FOUNDATIONT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.V.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP. BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VINYL COMPOSITION TILEH.G.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER RESISTANTINSUL.INSULATIONWP.WATER RESISTANTINV.INVERTW.M.WATER RESISTANTINV.INVERTW.D.WITH </td <td>F.F.</td> <td>FINISHED FLOOR</td> <td></td> <td></td>	F.F.	FINISHED FLOOR		
F.E.C.FIRE EXTINGUISHER CABINET F.H.STEL. STOR.STELL STOR.F.H.FIRE HYDRANTSTOR.STORAGEF.H.M.S.FLAT HEAD METAL SCREW FLORS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD WOOD SCREWTHRES.THRES.F.D.FLOORT>ONGUE & GROOVEF.D.FLOOR DRAINT.J.TOOLED JOINTFTG.FOOTINGT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF STEEL or SHEATHINGG.I.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.W.TOP OF STEEL or SHEATHINGGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VERTICALHDW.HARDWAREV.G.VINTLROUGH ROOFHT.HEIGHTV.I.F.VERTICALHDW.HARDWAREV.G.VINYL COMPOSITION TILEH.G.HOLLOW COREV.C.T.VINYL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER RESISTANTINSUL.INSULATIONWP.WATER RESISTANTINV.INVERTW.M.WATER RESISTANTINV.INVERTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW.OWITHK.D.KILN DRIEDW/OWITHOUT	F.S.	FINISH SLAB		
F.H.FIRE HYDRANTSTRUCT.STRUCT.STRUCT.F.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD WOOD SCREWTHRES.THRESHOLDFL. or FLR.FLOORT>ONGUE & GROOVEF.D.FLOOR DRAINT.J.TOOLED JOINTFTG.FOOTINGT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF OF CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFY IN FIELDH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINTYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER RESISTANTINSUL.INSULATIONWP.WATER RESISTANTINV.INVERTW.W.M.WELDED WIRE MESHJ.H.JOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT			STL.	STEEL
F.H.M.S.FLAT HEAD METAL SCREWS.A.G.SUPPLY AIR GRILLEF.H.W.S.FLAT HEAD WOOD SCREWTHRES.THRESHOLDFL. or FLR.FLOORTAGTONGUE & GROOVEF.D.FLOOR DRAINT.J.TOOLED JOINTFTG.FOUNDATIONT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.W.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP. BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFY IN FIELDH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER HEATERINSULINSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT			STOR.	STORAGE
F.H.W.S.FLAT HEAD WOOD SCREWTHRES.THRESHOLDFL. or FLR.FLOORT>ONGUE & GROOVEF.D.FLOOR DRAINT.J.TOOLED JOINTFTG.FOOTINGT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.W.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP. BD.GYPSUM BOARDVERT.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER REATERINSULINSIDE DIAMETERW.H.WATER RESISTANTINV.INVERTW.R.WATER RESISTANTINV.INVERTW.M.WELDED WIRE MESHJ.H.JOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT			S.A.G.	SUPPLY AIR GRILLE
F.D.FLOOR DRAINT.J.TOOLED JOINTFTG.FOOTINGT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.W.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP. BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFY IN FIELDH.C.HOLLOW COREV.C.T.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER REASISTANTINSUL.INSULATIONWP.WATER RESISTANTINV.INVERTW.R.WATER RESISTANTINV.INVERTW.M.WELDED WIRE MESHJT.JOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
FTG.FOOTINGT.O.B.TOP OF BEAMFND.FOUNDATIONT.O.C.TOP OF CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.W.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP.BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFY IN FIELDH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER PROOFINT.INSULATIONWP.WATER RESISTANTINV.INVERTW.R.WATER RESISTANTJ.H.JOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
FND.FOUNDATIONT.O.C.TOP OF CURB or CONCRETEGALV.GALVANIZEDT.O.S.TOP OF STEEL or SHEATHINGG.I.GALVANIZED IRONT.O.W.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP.BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFY IN FIELDH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER HEATERINSUL.INSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
G.I.GALVANIZED IRONT.O.W.TOP OF WALKGA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP.BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFY IN FIELDH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER REATERINSUL.INSULATIONWP.WATER RESISTANTINV.INVERTW.R.WATER RESISTANTINV.INVERTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT			T.O.C.	TOP OF CURB or CONCRETE
GA.GAUGETYP.TYPICALGL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP.BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFY IN FIELDH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER HEATERINSUL.INSULATIONWP.WATER PROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT	-	•••••		
GL.GLASSU.O.N.UNLESS OTHERWISE NOTEDGLU-LAMGLUE-LAMINATEDU.O.S.UNLESS OTHERWISE SHOWNGRD.GRADEV.T.R.VENT THROUGH ROOFGYP. BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERIFY IN FIELDH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.V.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER HEATERINSUL.INSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.D.WINDOW DIMENSIONJ.H.JOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT			-	
GRD.GRADEV.T.R.VENT THROUGH ROOFGYP. BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER HEATERINSUL.INSULATIONWP.WATER PROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.D.WINDOW DIMENSIONJ.H.JOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT	GL.	-		
GYP. BD.GYPSUM BOARDVERT.VERTICALHDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER HEATERINSUL.INSULATIONWP.WATER PROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
HDW.HARDWAREV.G.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINHT.HEIGHTV.I.F.VERTICAL GRAINH.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER HEATERINSUL.INSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT	-	-		
H.C.HOLLOW COREV.C.T.VINYL COMPOSITION TILEH.M.HOLLOW METALV.W.C.VINYL WALL COVERINGHORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER HEATERINSUL.INSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.W.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT	HDW.	HARDWARE	V.G.	VERTICAL GRAIN
H.M.HOLLOW METALV.W.C.VINYL WALL COVERINGH.M.HORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER HEATERINSUL.INSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.W.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT		_		
HORIZ.HORIZONTALV.O.I.P.VOICE OVER INTERNET PROTOCOLH.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER HEATERINSUL.INSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
H.B.HOSE BIBBW.C.WATER CLOSETI.D.INSIDE DIAMETERW.H.WATER HEATERINSUL.INSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.W.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
INSUL.INSULATIONWP.WATERPROOFINT.INTERIORW.R.WATER RESISTANTINV.INVERTW.W.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
INT.INTERIORW.R.WATER RESISTANTINV.INVERTW.W.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
INV.INVERTW.W.M.WELCHAEDOUTUTJTJOINTW.W.M.WELDED WIRE MESHJTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT				
JTJOINTW.D.WINDOW DIMENSIONJ.H.JOIST HANGERW/WITHK.D.KILN DRIEDW/OWITHOUT	INV.	INVERT		
K.D. KILN DRIED W/O WITHOUT				
W/6 WI11001				

BUILDING CODES AND STANDARDS:

2019	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24	C.C.R.
2019	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, (
2010	(2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 AN	
	CALIFORNIA AMENDMENTS.)	
2019	CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24,	CCR
2013	(2018 NATIONAL ELECTRIC CODE WITH 2019 CALIFORN	
2019	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE	
2019	(2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFO	
	AMENDMENTS).	
2010	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24,	6 6 B
2019	(2018 UNIFORM PLUMBING CODE (CPC), PART 5, TITLE 24,	
2010		
2019	CALIFORNIA ENERGY CODE (CENC), PART 6, TITLE 24,	
2019	CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R	
2010	(2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORI CALIFORNIA GREEN BUILDING STANDARDS CODE, PAR	
2019	CALIFORNIA GREEN BUILDING STANDARDS CODE, PAR C.C.R.	XI II, IIILE 24,
2010		
	CALIFORNIA REFERENCED STANDARDS, PART 12, TITL	
	ASME A17.1 (W/A17.1a/CSA B44a-08 ADDENDA) SAFETY ELEVATORS AND ESCALATORS	CODE FOR
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN	
2010		
	(28 CFR PART 35 FOR TITLE II ENTITIES)	
	-E-19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULA	
	LE-19, FUDLIC SAFETT, STATE FIRE MARSHAL REGULA	nons.
NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS	2016 EDITION
	(CA AMENDED)	ZOTO EDITION
NFPA 14	INSTALLATION OF STANDPIPE & HOSE SYSTEMS	2016 EDITION
	(CA AMENDED)	ZOTO EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17		2017 EDITION
NFPA 20		2016 EDITION
NFPA 22		2013 EDITION
NFPA 24		2016 EDITION
11117724	(CA AMENDED).	ZOTO EDITION
NFPA 25	INSPECTION, TESTING AND MAINTENANCE OF	2013
11117720	WATER BASED FIRE PROTECTION SYSTEMS	CALIFORNIA
	WATER BACED FIRE FROM CHORE OF OTENIC	EDITION
NFPA 72	NATIONAL FIRE ALARM CODE	2016 EDITION
1117772	(CA AMENDED)	2010 EDITION
NFPA 80		2016 EDITION
NFPA 92		2015 EDITION
	EMERGENCY AND STANDBY POWER SYSTEMS	2016 EDITION
	STANDARD FOR FIRE SAFETY AND EMERGENCY	2018 EDITION
	SYMBOLS	
NFPA 25	3 CRITICAL RADIANT FLUX OF FLOOR COVERING	2015 EDITION
	SYSTEMS	
NFPA 20	01 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ICC 300	STANDARDS FOR BLEACHERS, FOLDING AND	2017 EDITION
	TELESCOPIC SEATING, AND GRANDSTANDS	
SFM 12-1	0-1 POWER OPERATED EXIT DOORS	
SFM 12-1	0-2 SINGLE POINT LATCHING OR LOCKING DEVIC	ES
SFM 12-1	0-3 EMERGENCY EXIT & PANIC HARDWARE	
UL 38	MANUAL OPERATING SIGNAL BOXES	1999/2005 EDITION
UL 268	SMOKE DETECTORS FOR FIRE PROTECTIVE	2009 EDITION
	SIGNALING SYSTEMS	
UL 268A	SMOKE DETECTORS DUCT APPLICATIONS	1998/2003 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS	2005 (R2010)
	FOR PROTECTION OF COMMERCIAL COOKING	
	EQUIPMENT	
UL 305	PANIC HARDWARE	2012 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM	
	AND SIGNALING SYSTEMS, AND ACCESSORIES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE	1999 EDITION
UL 864	CONTROL UNITS FOR FIRE PROTECTIVE	2003 EDITION

SYMBOLS LEGEND

DETAIL

SECTION / EXTERIOR ELEVATION - SECTION IDENTIFICATION - SHEET WHERE SECTION IS DRAWN

— SHEET WHERE DETAIL IS DRAWN A9.1 / ←

INTERIOR ELEVATION - INDICATES ELEVATION SHOWN — SHEET WHERE ELEVATION IS DRAWN

ROOM IDENTIFICATION CLASSROOM ROOM NAME 102 - ROOM NUMBER

SPECIFIC NOTE

/ 3

(102A)

 $\langle a \rangle$

(+8'-0")

DOOR DESIGNATION WINDOW DESIGNATION

ADDENDUM REVISION CLOUD AROUND REVISION

CCD REVISION

FINISH NUMBER SEE SPECS AND I.E. DWGS.

CLOUD AROUND REVISION

EQUIPMENT LETTER A — SEE EQUIPMENT SCHEDULE

CEILING HEIGHT

WALL TYPE

MATCH LINE

+8'-0" ELEV. HEIGHT / F.O.S., U.O.N.

- FACE OF FINISH

RENOVATIONS.

CAMPBELL, CALIFORNIA 95008 (408) 879-0600 (408) 377-6066 FAX

8 HARRIS COURT, SUITE A8 MONTEREY, CALIFORNIA 93940 (831) 218-1802

SAN JOSE, CA 95110 (408) 564-7925

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

UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 EDITION

(W/ REVISIONS THROUGH DEC. 2014)

DSA FILE NUMBER 1-32 DSA APPLICATION NUMBER 01-119604 **OPSC TRACKING NUMBER 75101-100**

PROJECT SUMMARY

REPLACEMENT OF EXISTING BOILER SYSTEM AND HVAC SYSTEMS IN GYMNASIUM BUILDING. REMOVAL AND REPLACEMENT OF GYPBOARD CEILING AS NEEDED FOR HVAC

THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT.

DESIGN TEAM

ARCHITECT SUGIMURA FINNEY ARCHITECTS 2155 SOUTH BASCOM AVENUE SUITE 200

MECHANICAL AND PLUMBING ENGINEER CYPRESS ENGINEERING GROUP

ELECTRICAL AND FIRE ALARM ENGINEER AURUM CONSULTING ENGINEERS 1798 TECHNOLOGY DRIVE, SUITE 242

DRAWING INDEX

T1 TITLE SHEET T3 SITE PLAN - FIRE LIFE SAFETY

ARCHITECTURAL A0.1 CAMPUS SITE PLAN

- A0.2 PARTIAL SITE PLAN A0.4 TYPICAL SITE DETAILS
- A1.1 DEMOLITION FLOOR PLAN NORTH A1.2 DEMOLTION FLOOR PLAN - SOUTH A2.1
- NEW FLOOR PLAN NORTH A2.2 NEW FLOOR PLAN - SOUTH A3.1 DEMOLITION REFLECTED CEILING PLAN - NORTH
- A3.2 DEMOLITION REFLECTED CEILING PLAN SOUTH A3.3 NEW REFLECTED CEILING PLAN - NORTH
- A3.4 NEW REFLECTED CEILING PLAN SOUTH A4.1 DEMOLITION ROOF PLAN
- A4.2 NEW ROOF PLAN A8.1 SECTIONS - MECHANICAL CMU ENCLOSURE A9.1 TYPICAL DETAILS A9.2 CEILING DETAILS

* MECHANICAL & PLUMBING

MECH	ANICAL & PLUMBING
/IP0.1	SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING
/IP0.2	SCHEDULES AND SEQUENCES OF OPERATION -
	MECHANICAL & PLUMBING
ИР2.1	DEMOLITION FLOOR PLAN - GYM NORTH HALF -
	MECHANICAL & PLUMBING
ИР2.2	DEMOLITION FLOOR PLAN - GYM SOUTH HALF -
	MECHANICAL & PLUMBING
ИР2.3	NEW FLOOR PLAN - GYM NORTH - MECHANICAL &
	PLUMBING

MP2.4 NEW FLOOR PLAN - GYM SOUTH - MECHANICAL & PLUMBING MP4.1 DEMOLITION & NEW - PARTIAL FLOOR PLANS - GYM

MECHANICAL YARD - MECHANICAL AND PLUMBING MP4.2 SECTIONS - GYM MECHANICAL YARD - MECHANICAL MP5.1 REFRIGERANT PIPING DIAGRAMS - MECHANICAL MP6.1 DETAILS - MECHANICAL & PLUMBING MP7.1 EQUIPMENT CURB DRAWINGS - MECHANICAL MP8.1 TITLE 24 DOCUMENTS - MECHANICAL

MP8.2 TITLE 24 DOCUMENTS - MECHANICAL

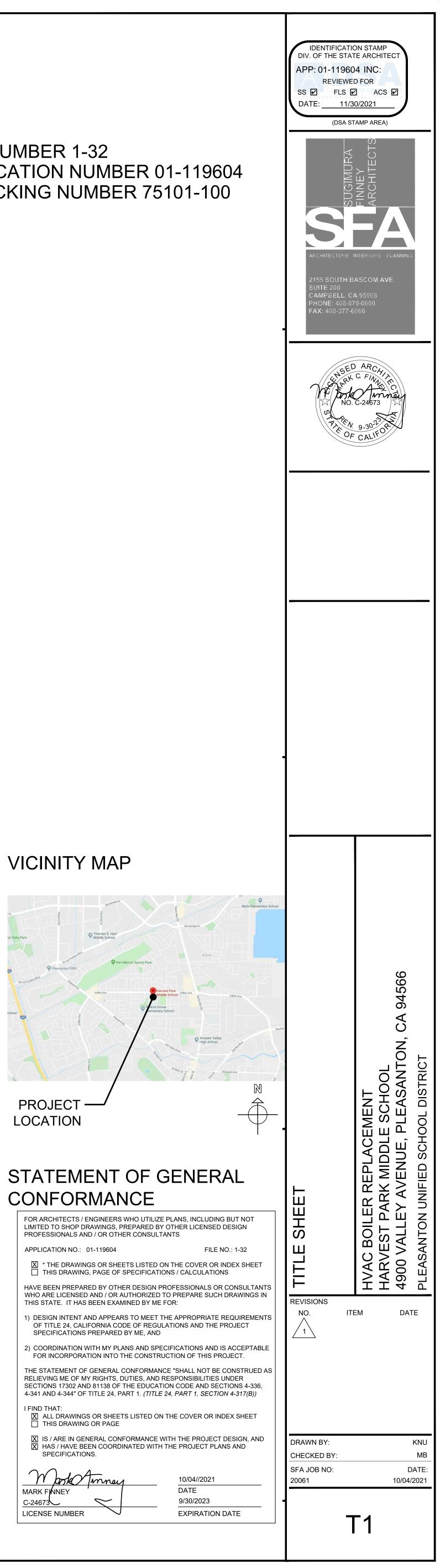
* ELECTRICAL

ELECI	RICAL
0.1	SYMBOLS, ABBREVIATIONS, LIGHT FIXTURE SCHEDULE,
	CODES, STANDARDS, NOTES & SHEET INDEX
0.2	CALIFORNIA ENERGY COMPLIANCE TITLE 24 - OUTDOOR
1.1	PANELBOARD SCHEDULES
2.1	ELECTRICAL SITE PLAN
3.1	ELECTRICAL DEMOLITION PLAN - GYM NORTH HALF

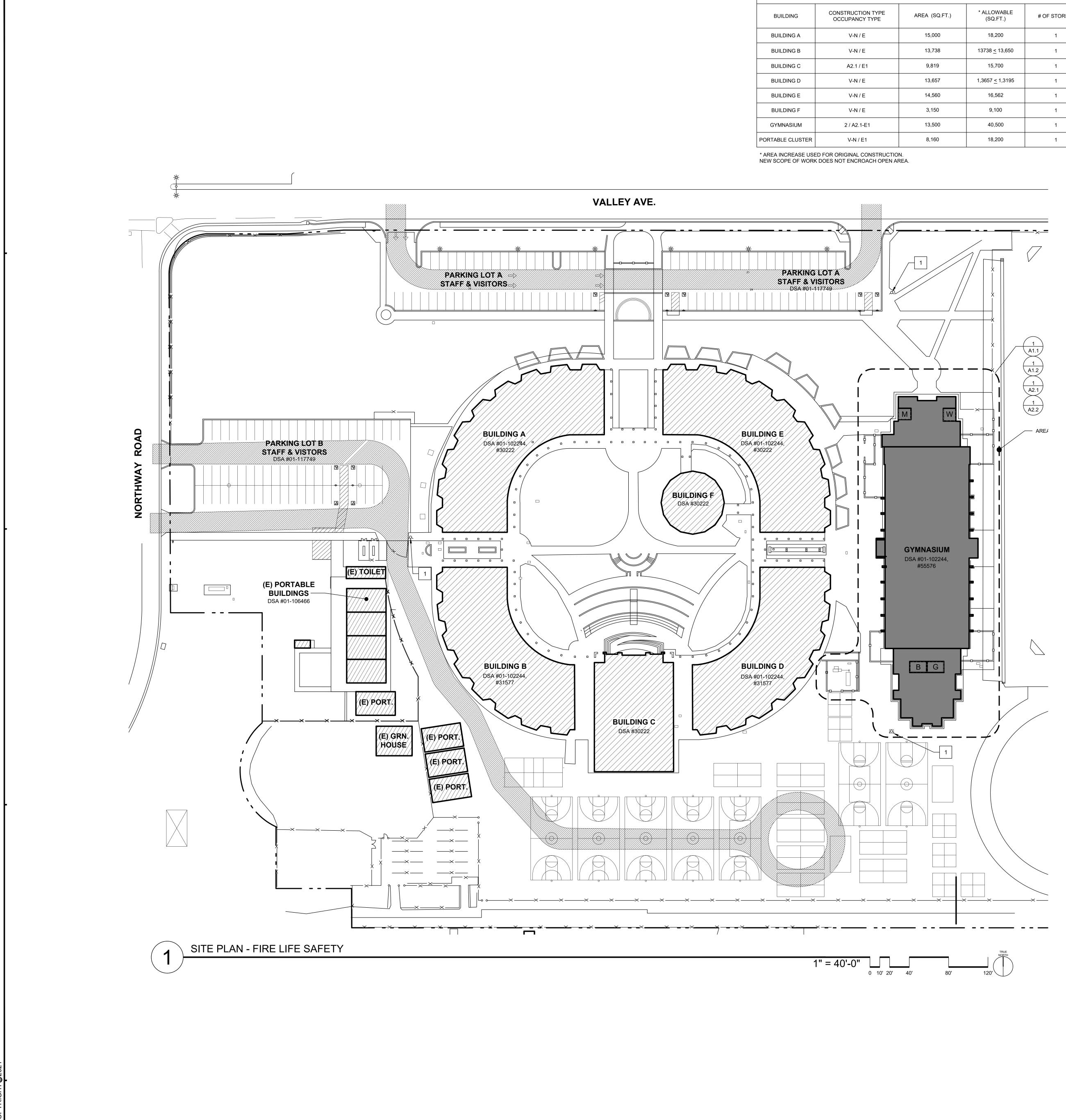
LU. 1	ELECTRICAL DEMOLITION FEAR - OTHERORATING
E3.2	ELECTRICAL DEMOLITION PLAN - GYM SOUTH HALF
E4.1	ELECTRICAL PLAN - GYM NORTH HALF
E4.2	ELECTRICAL PLAN - GYM SOUTH HALF
E6.1	ELECTRICAL DETAILS
* FIRE	ALARM
FA0.1	FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT
FAU. I	- , ,
	LIST, OPERATIONAL MATRIX, DETAILS & NOTES
FA1.1	FIRE ALARM RISER DIAGRAM, BATTERY CALCULATIONS

FA2.1 FIRE ALARM SITE PLAN FA4.1 FIRE ALARM PLAN - GYM NORTH HALF FA4.2 FIRE ALARM PLAN - GYM SOUTH HALF

<u>SHEET TOTAL = 45</u>



FOR ARCHITECTS / ENGINEERS WHO UTILI LIMITED TO SHOP DRAWINGS, PREPARED I PROFESSIONALS AND / OR OTHER CONSU	BY OTHER LICENSED D
APPLICATION NO.: 01-119604	FILE NO
* THE DRAWINGS OR SHEETS LISTED THIS DRAWING, PAGE OF SPECIFICA	ON THE COVER OR IN TIONS / CALCULATIONS
HAVE BEEN PREPARED BY OTHER DESIGN WHO ARE LICENSED AND / OR AUTHORIZED THIS STATE. IT HAS BEEN EXAMINED BY M	D TO PREPARE SUCH D
 DESIGN INTENT AND APPEARS TO MEET OF TITLE 24, CALIFORNIA CODE OF REG SPECIFICATIONS PREPARED BY ME, AND 	ULATIONS AND THE PF
2) COORDINATION WITH MY PLANS AND SF FOR INCORPORATION INTO THE CONST	
THE STATEMENT OF GENERAL CONFORMA RELIEVING ME OF MY RIGHTS, DUTIES, ANI SECTIONS 17302 AND 81138 OF THE EDUCA 4-341 AND 4-344" OF TITLE 24, PART 1. (<i>TITL</i>	D RESPONSIBILITIES UI
I FIND THAT: X ALL DRAWINGS OR SHEETS LISTED O THIS DRAWING OR PAGE	ON THE COVER OR IND
 IS / ARE IN GENERAL CONFORMANCE HAS / HAVE BEEN COORDINATED WIT SPECIFICATIONS. 	WITH THE PROJECT D TH THE PROJECT PLAN
WorkAmney	10/04//2021



	BUILDING	G CODE ANAL	YSIS	
BUILDING	CONSTRUCTION TYPE OCCUPANCY TYPE	AREA (SQ.FT.)	* ALLOWABLE (SQ.FT.)	# OF STORIES
BUILDING A	V-N / E	15,000	18,200	1
BUILDING B	V-N / E	13,738	13738 <u><</u> 13,650	1
BUILDING C	A2.1 / E1	9,819	15,700	1
BUILDING D	V-N / E	13,657	1,3657 <u><</u> 1,3195	1
BUILDING E	V-N / E	14,560	16,562	1
BUILDING F	V-N / E	3,150	9,100	1
GYMNASIUM	2 / A2.1-E1	13,500	40,500	1
PORTABLE CLUSTER	V-N / E1	8,160	18,200	1



REPLACEMENT OF EXISTING BOILER SYSTEM AND HVAC SYSTEMS IN GYMNASIUM BUILDING.

GENERAL NOTES

A. THIS SHEET IS FOR FIRE LIFE SAFETY CODE RELATED ITEMS. FOR SCOPE OF WORK SEE SHEETS A0.1 AND A0.2. B. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, AND FIRE PROTECTION DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

SITE PLAN - FIRE LIFE SAFETY NOTES 1. EXISTING FIRE HYDRANT.

GRAPHIC KEY

<u> </u>	EX
	AC
	RO
<u></u>	СН
ooo	WC
	DE
	EX
	BU

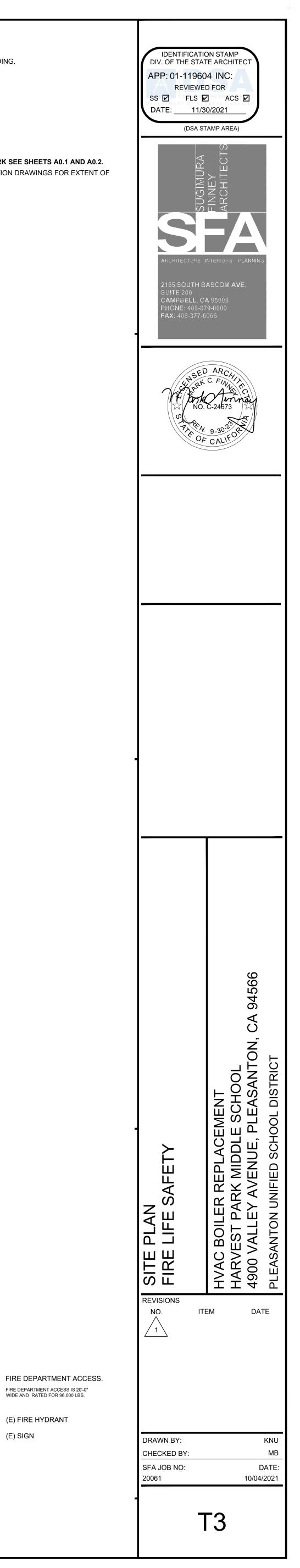
XISTING PROPERTY LINE CCESSIBLE PATH OF TRAVEL ROOF OVERHANG HAIN LINK FENCE VOOD FENCE ECORATIVE FENCE XISTING BUILDING

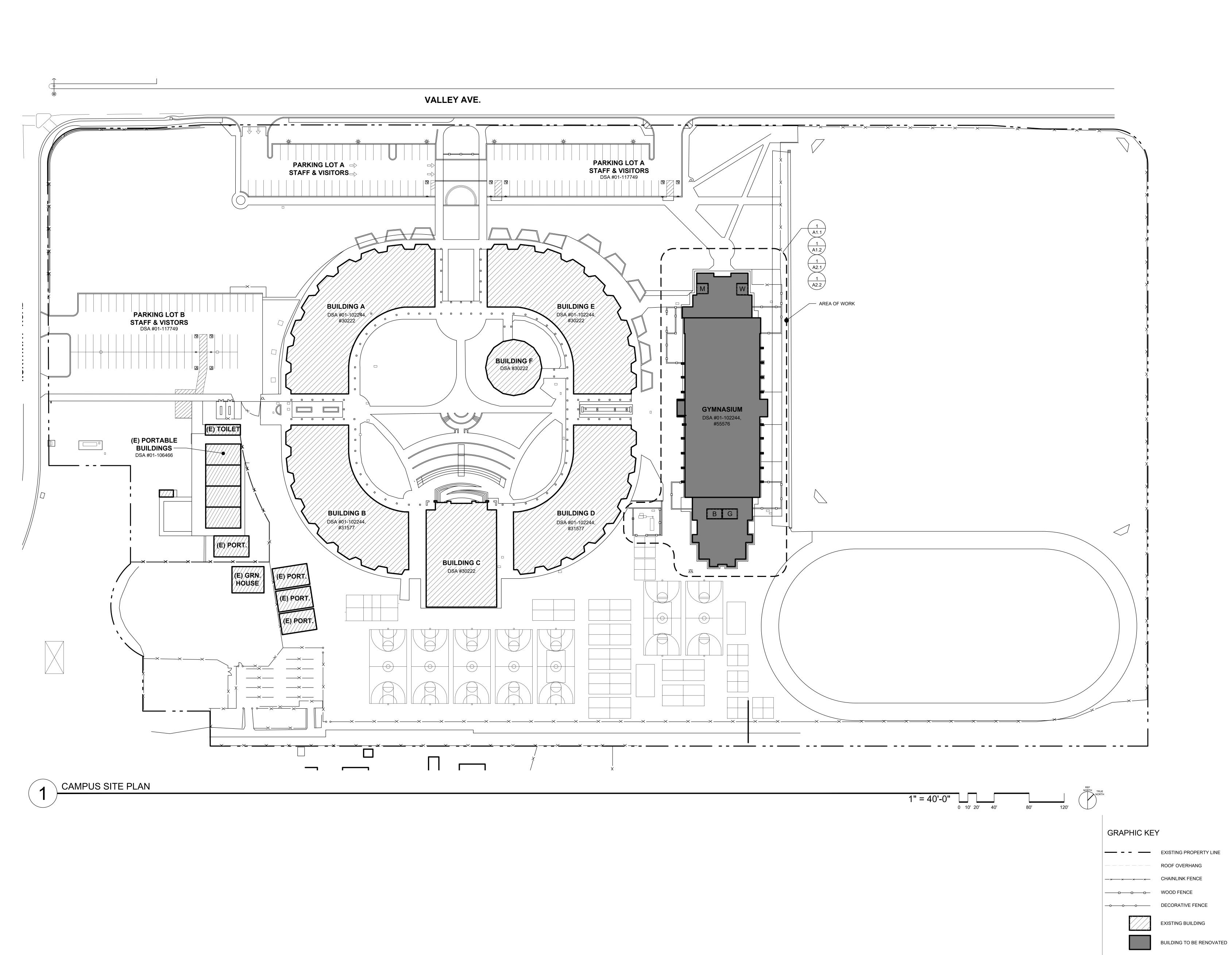
BUILDING TO BE RENOVATED

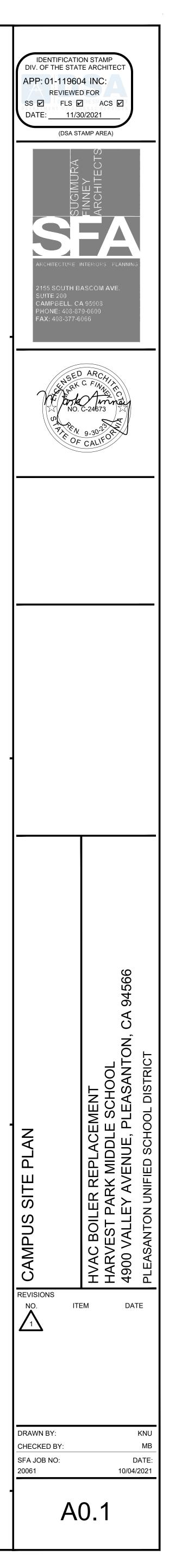


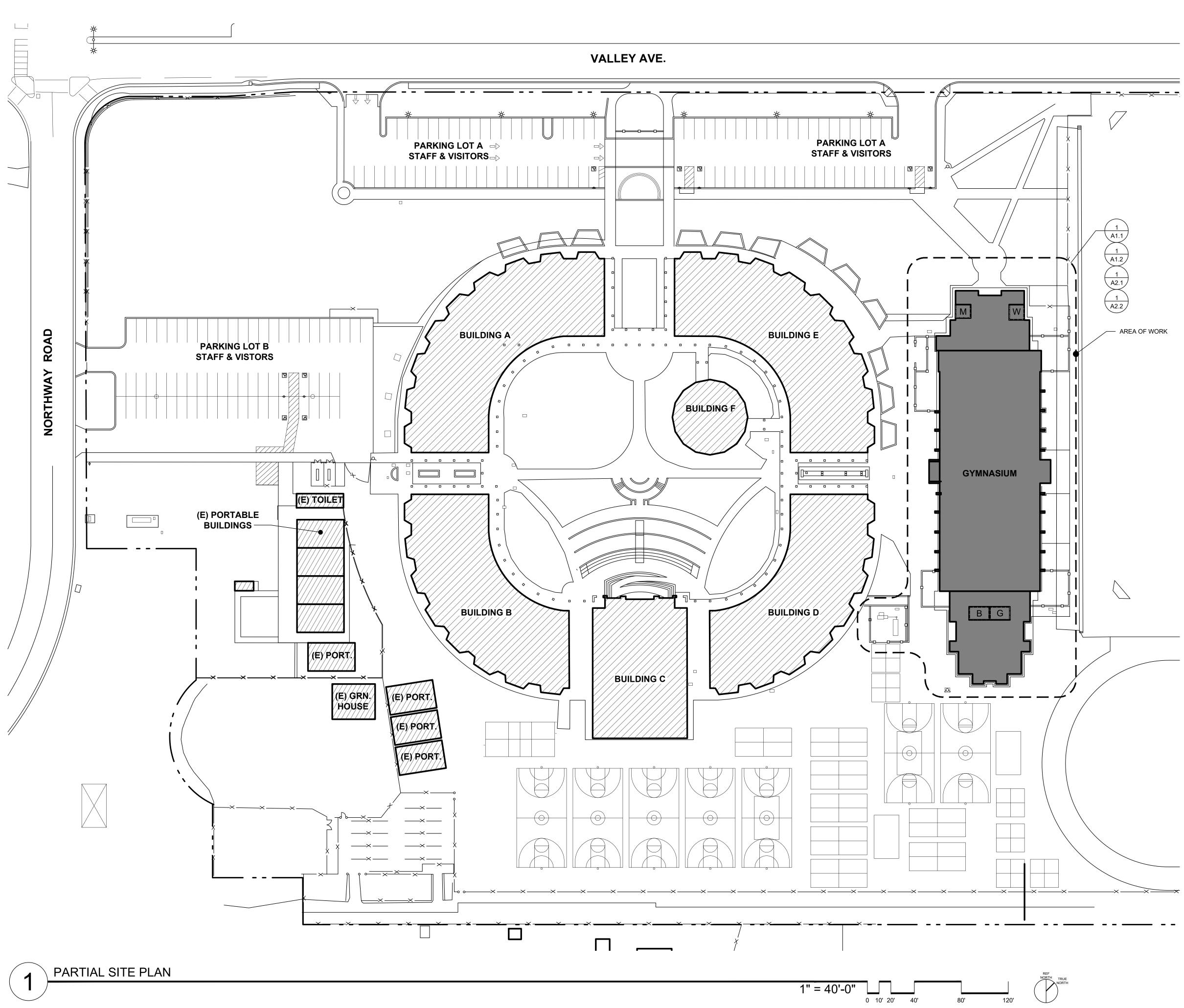
---- (E) SIGN

FIRE DEPARTMENT ACCESS IS 20'-0" WIDE AND RATED FOR 96,000 LBS. (E) FIRE HYDRANT









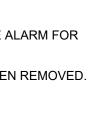


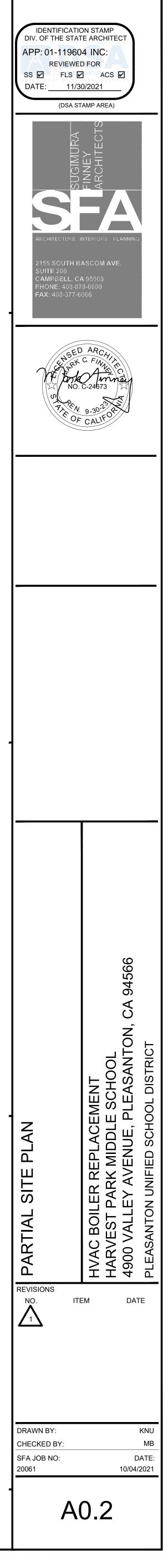
EXISTING PROPERTY LINE →→→→ DECORATIVE FENCE

- EXISTING BUILDING BUILDING TO BE RENOVATED
- CHAINLINK FENCE
- ROOF OVERHANG
- GRAPHIC KEY

GENERAL NOTES

- A. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM FOR
- EXTENT OF OTHER RELATED WORK. B. CONTRACTOR TO VERIFY ALL BARRIERS IN P.O.T. HAVE BEEN REMOVED.





•	CONCRETE						
Α.	CONCRETE SHALL E	BE SUPPLIED AND	PLACED IN AC	CORDANCE MI	TH ACI 318	L.	
З.	CONCRETE SHALL E	BE AS FOLLOWS:					
	CONCRETE USE	STRENGTH AT 28 DAYS U.O.N.	W/C RATIO	MAX. AGGREGATE SIZE	WEIGHT	SHRINKAGE	
	SLAB ON GRADE	3000 PSI	0.45 MAX.	3/4" TO 1" (LS)	145pcf	.045%	
	HOUSEKEEPING PAD	3000 PSI	0.45 MAX.	3/4" TO 1" (LS)	145pcf	.045%	
E	CONFORM TO AS FLY ASH: ASTM C MASS OF CEMENT (DSA PROJECTS I	R STONE CONCRETE LIMESTONE OR GR TM C-330.	E SHALL CONF RANITE. AGGR CLASS C. MINI 3 20%, MAXIM 518, ASTM C 3	FORM TO ASTM REGATE FOR LIC MUM RECOMMENT 11 CLASS N OR	SHTWEIGHT NDED FLY DATION IS : F AND DSA	ASH F. CONTE 25%. A IR 19-3 CLAS	HALL
G	IMPROVE WORKA ALSO MEET REQU	SHALL CONTAIN PO TURES ARE ALLOWI BILITY, 1, ASTM C IREMENTS OF ASTM MIXTURES SHOULD	ED AS PLASTI 494, TYPES A 4 C 1017, 2, TH	CIZERS AND/ O , C, E, G. HIGH R HE INITIAL SLUMP	R SET ACC	ELERATORS T	O SHALL
н	, SHRINKAGE - CON REPORT.	NTRACTOR TO PRO	OVIDE CONCR	ETE MIX HISTOR	Y DATA OF	R PROVIDE TES	STING
I.	1. CONC. CAS 2. CONC. FOI NO. 6	OVER FOR CAST-IN ST AGAINST AND P RMED BELOW GRA AND GREATER AND SMALLER	ERMANENTLY DE OR EXPOS	EXPOSED TO EASED TO EASED TO WEATHER	₹:		2"

3. CONC. NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND: SLABS, WALLS, AND JOISTS: NO. 11 AND SMALLER . . BEAMS AND COL: PRIMARY REINF., TIES, STIRRUPS, SPIRALS 1 1/2"

J. PLACEMENT

1. ALL REINFORCING BARS, ANCHOR BOLTS, AND ALL OTHER CONC. INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. 2. CHAMFER ALL CORNERS OF CONCRETE TO PREVENT DAMAGE.

- 3. CONSTRUCTION TOLERANCE SHALL COMPLY TO ACI 117.
- 4. CONCRETE SHALL BE PLACED IN A CONTINUOUS OPERATION BETWEEN PREDETERMINED CONSTRUCTION JOINTS.
- 5. USE VIBRATORS TO CONSOLIDATE CONCRETE. DO NOT USE VIBRATORS TO MOVE CONCRETE.
- 6. CONCRETE SHALL BE CONTINUOUSLY CURED FOR 7 DAYS AFTER PLACEMENT IN ANY
- APPROVED MANNER, FOOTINGS ARE EXEMPTED FROM THIS REQUIREMENT. 7. PATCHING OF CONCRETE: ALL INSERT HOLES AND OTHER IMPERFECTIONS ON THE SURFACES OF THE CONCRETE SHALL BE FILLED WITH GROUT, BRUSHED AND SACKED TO A

UNIFORM FINISH.

<u>REINFORCING STEEL</u>

A. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH ACI 315 AND ACI 318.

B. REINFORCING STEEL SHALL BE AS FOLLOWS:

REINF.	TYPE
BARS/TIES/SPIRALS	ASTM A615, GRADE 60, U.O.N.

C. DO NOT FIELD BEND OR STRAIGHTEN IN ANY MANNER THAT WILL DAMAGE REINFORCING.

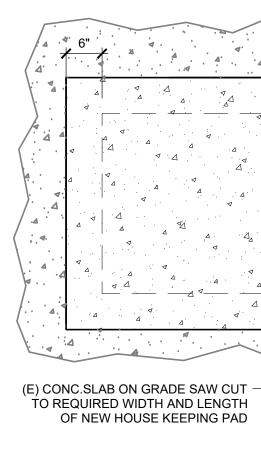
<u>DESIGN B</u>ASIS:

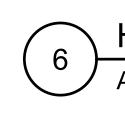
A.APPLICABLE CODE: CBC 2019

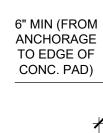
- B. VERTICAL LOADS LIVE LOADS
- 1. ROOF: 20 PSF REDUCIBLE
- C. LATERAL LOADS: 1. DESIGN WIND CRITERIA PER ASCE 7-16
 - BASIC WIND SPEED: 100 MPH (STR) EXPOSURE C
- 2. DESIGN SEISMIC CRITERIA SITE CLASS D

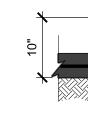
RISK CATEGORY III

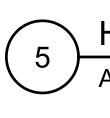
- SDS: 1.541 g SD1:
- IMPORTANCE FACTOR: 1.25
- D. GEOTECHNICAL CRITERIA PER CBC ALLOWABLE MINIMUM, U.O.N.

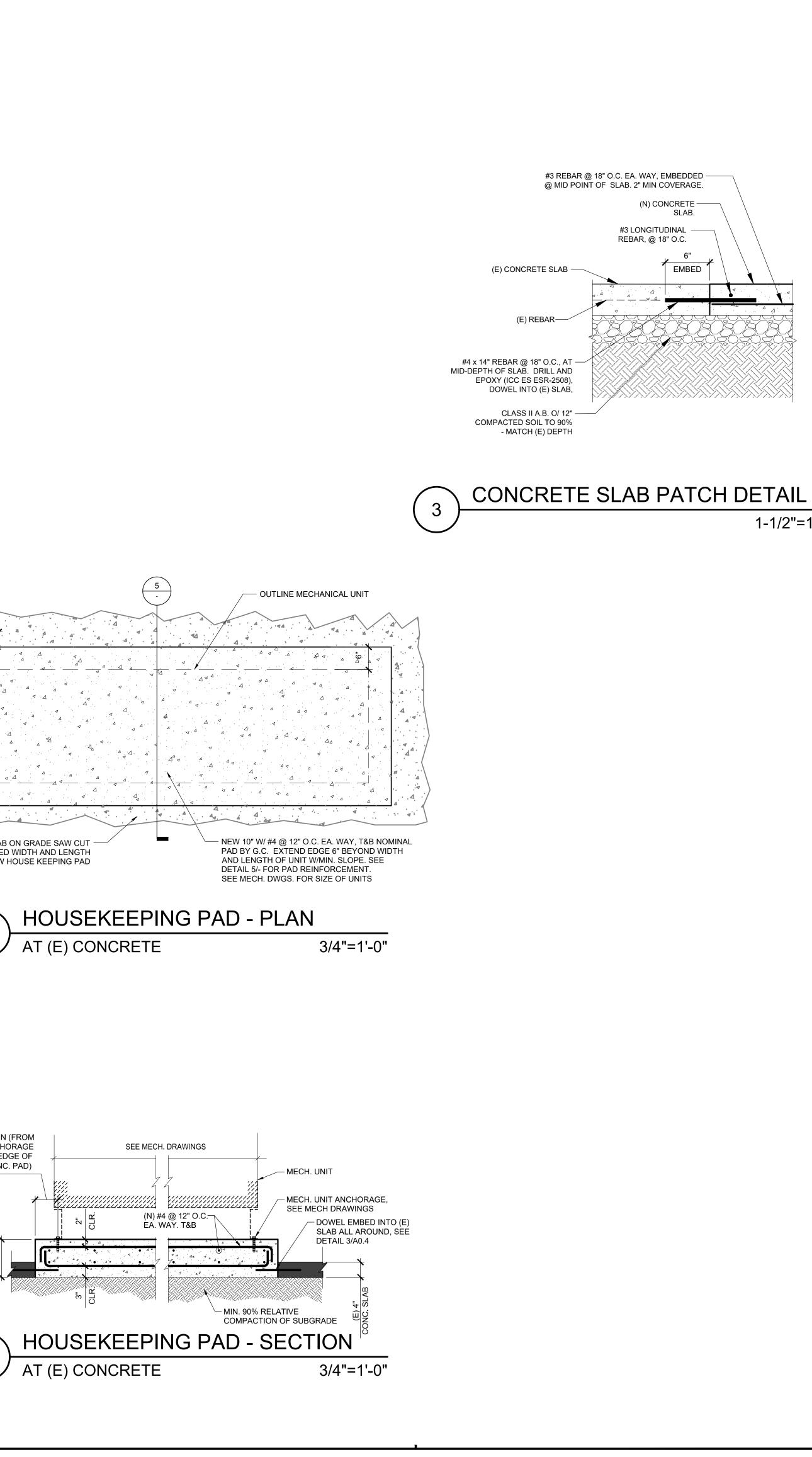


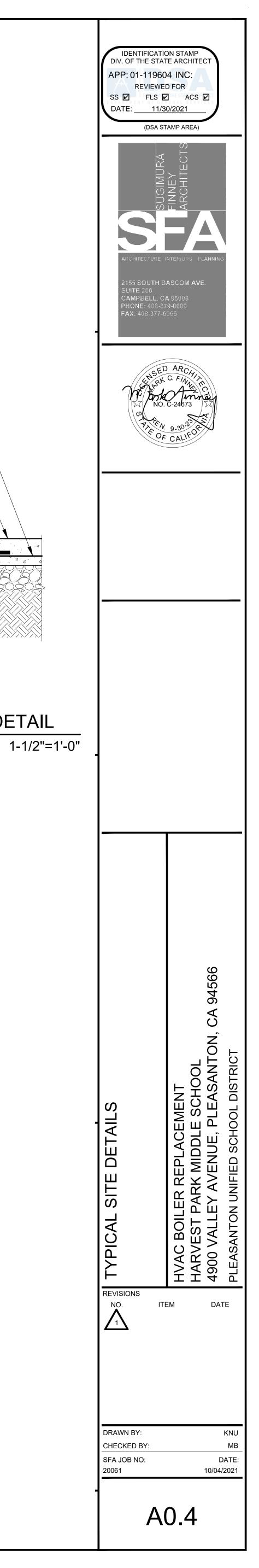




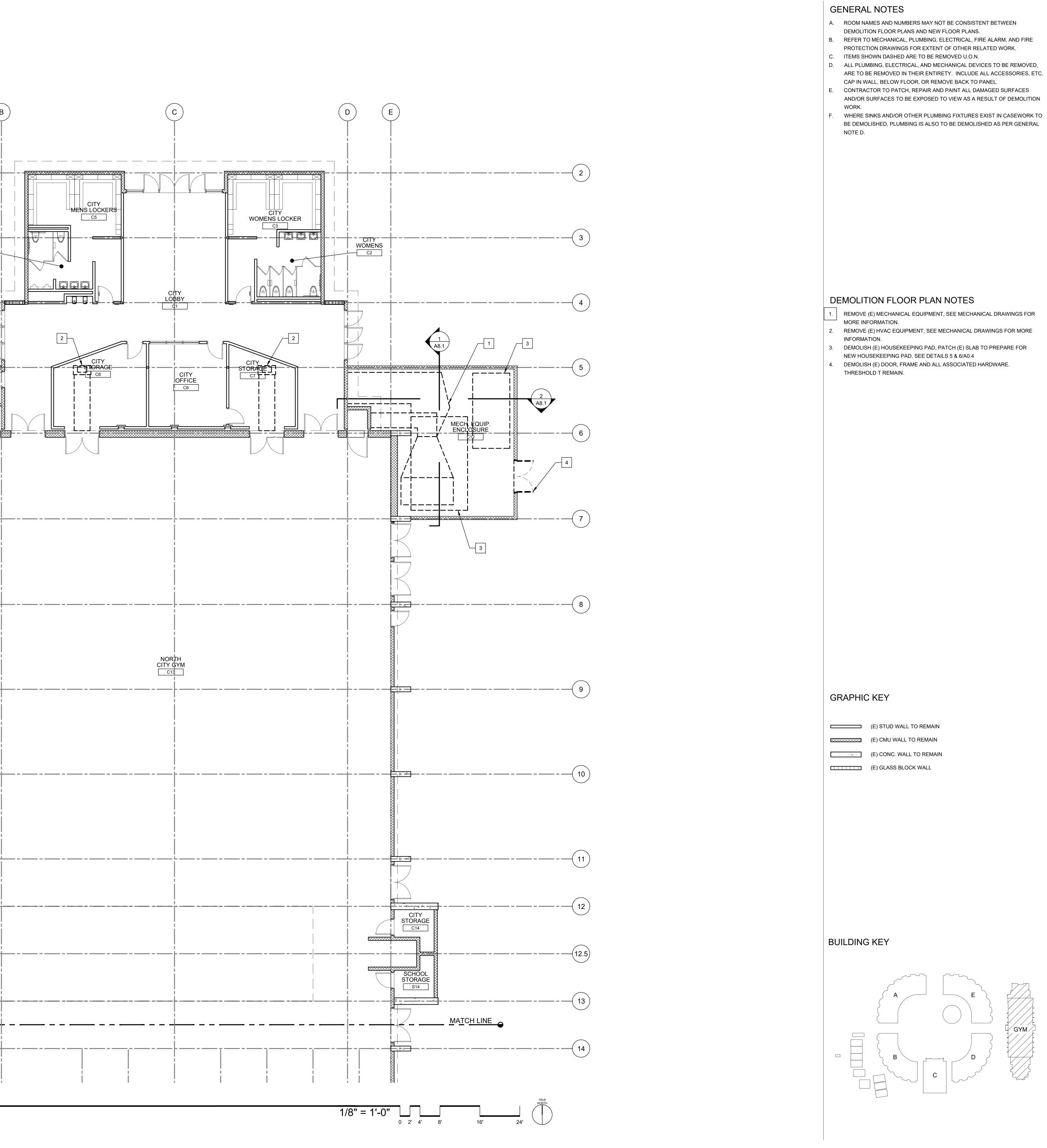


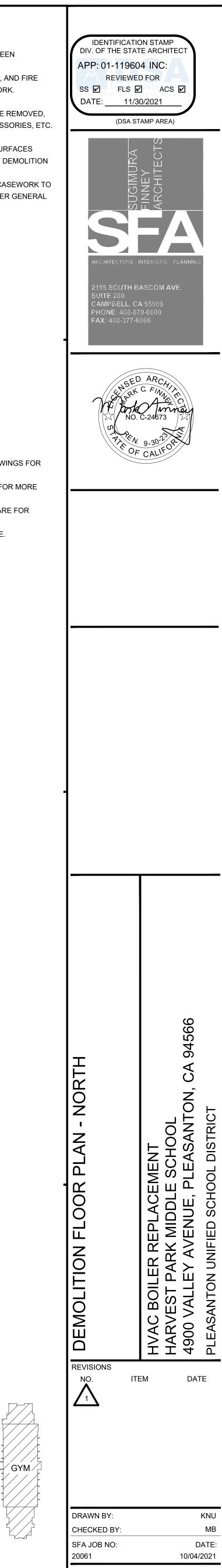






		A
	 	 CITY MEN: C4

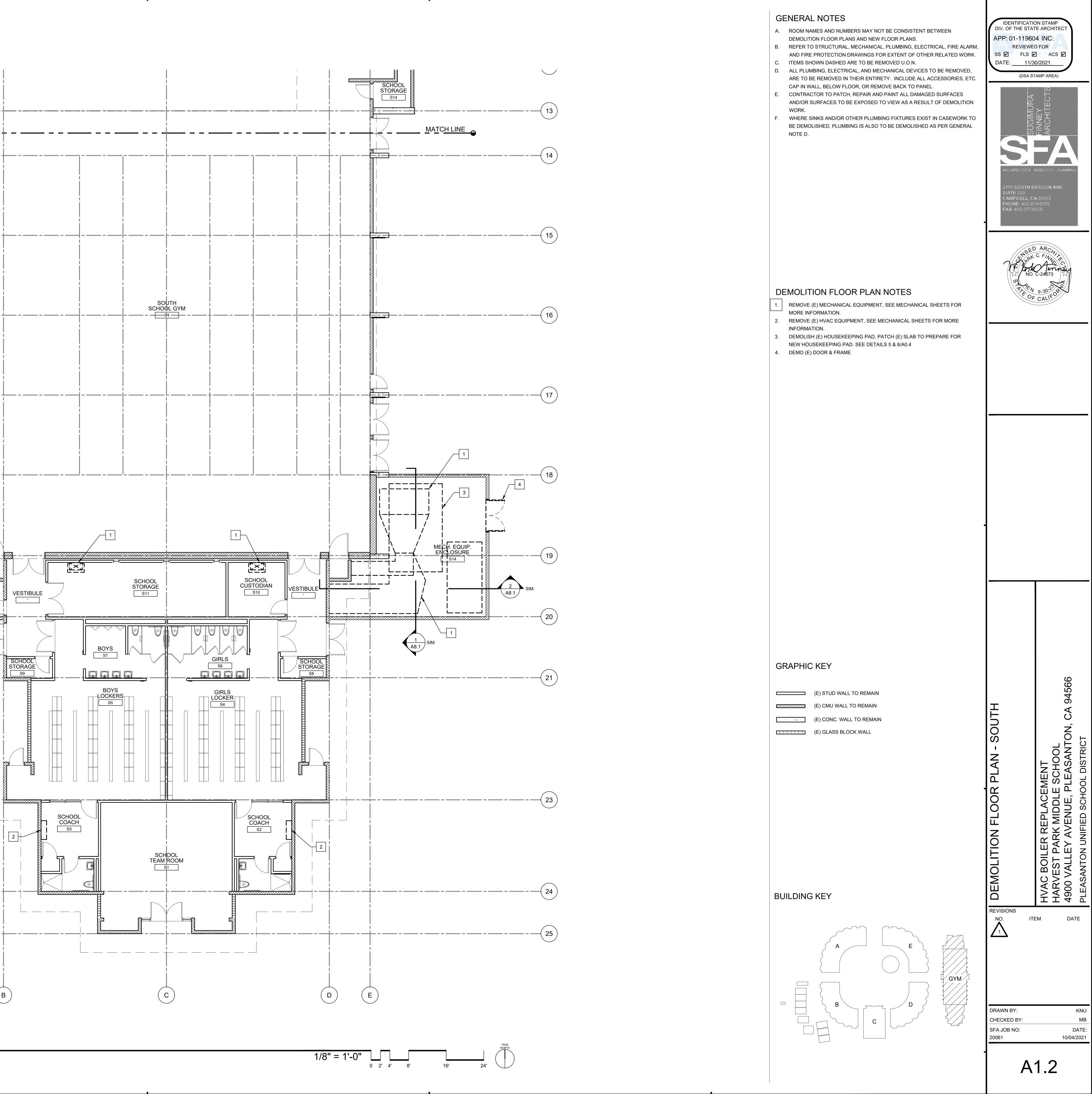




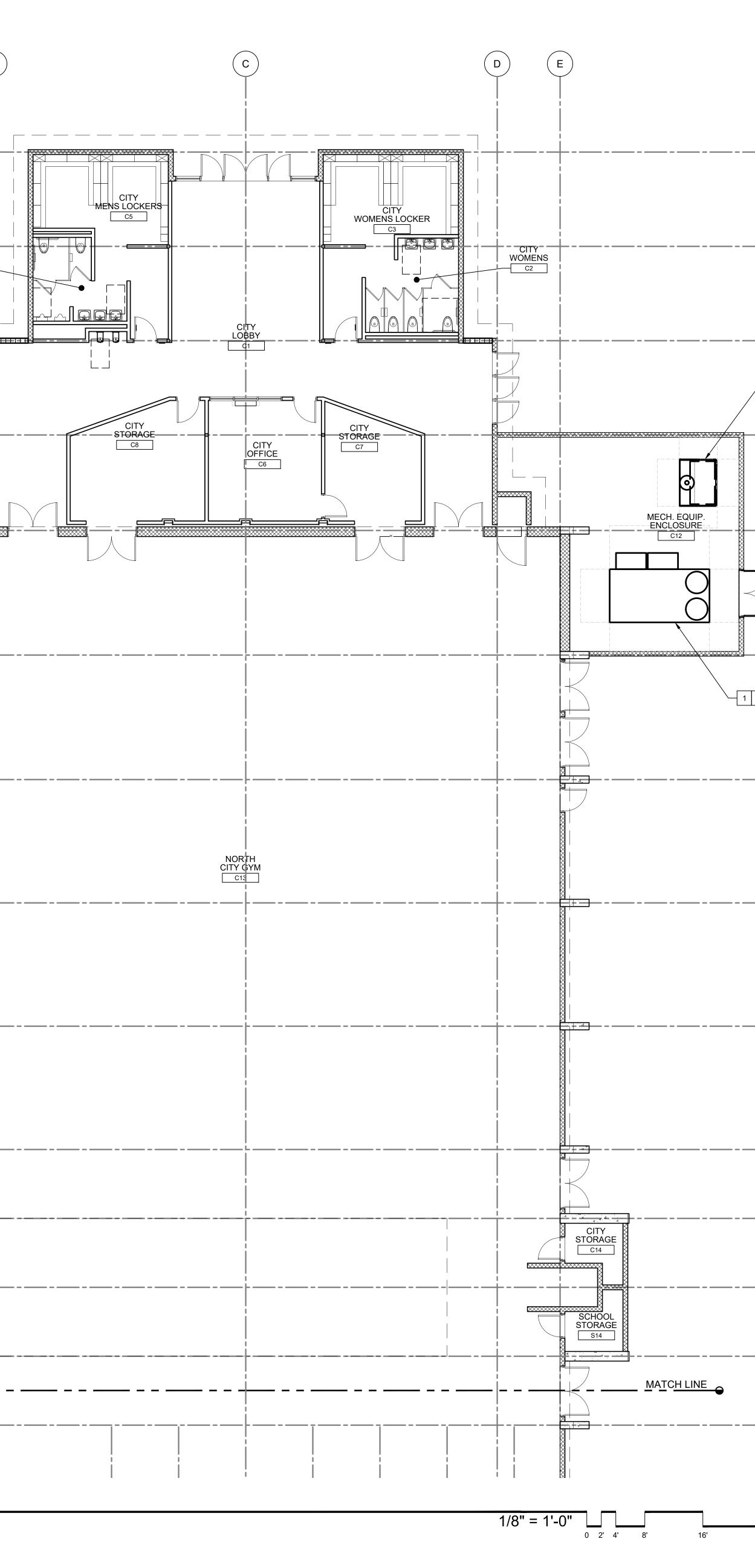
MB

A1.1

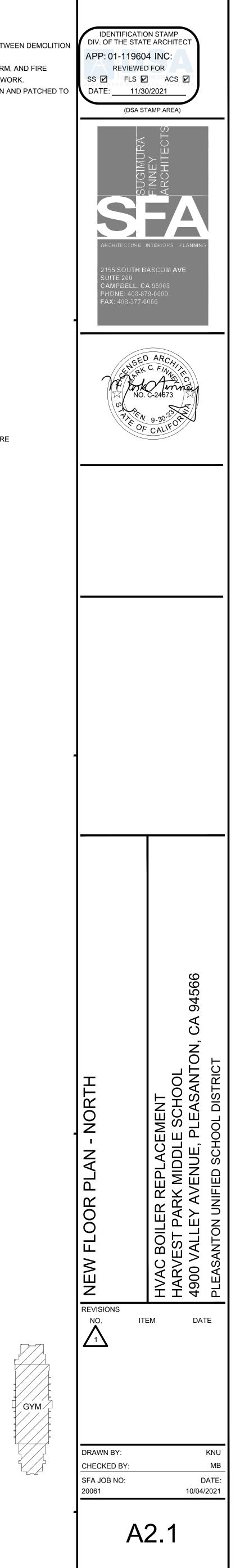
		EQUIPMENT ENCLOSURE
ELEC. EQUIP. ENCLOSURE		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	



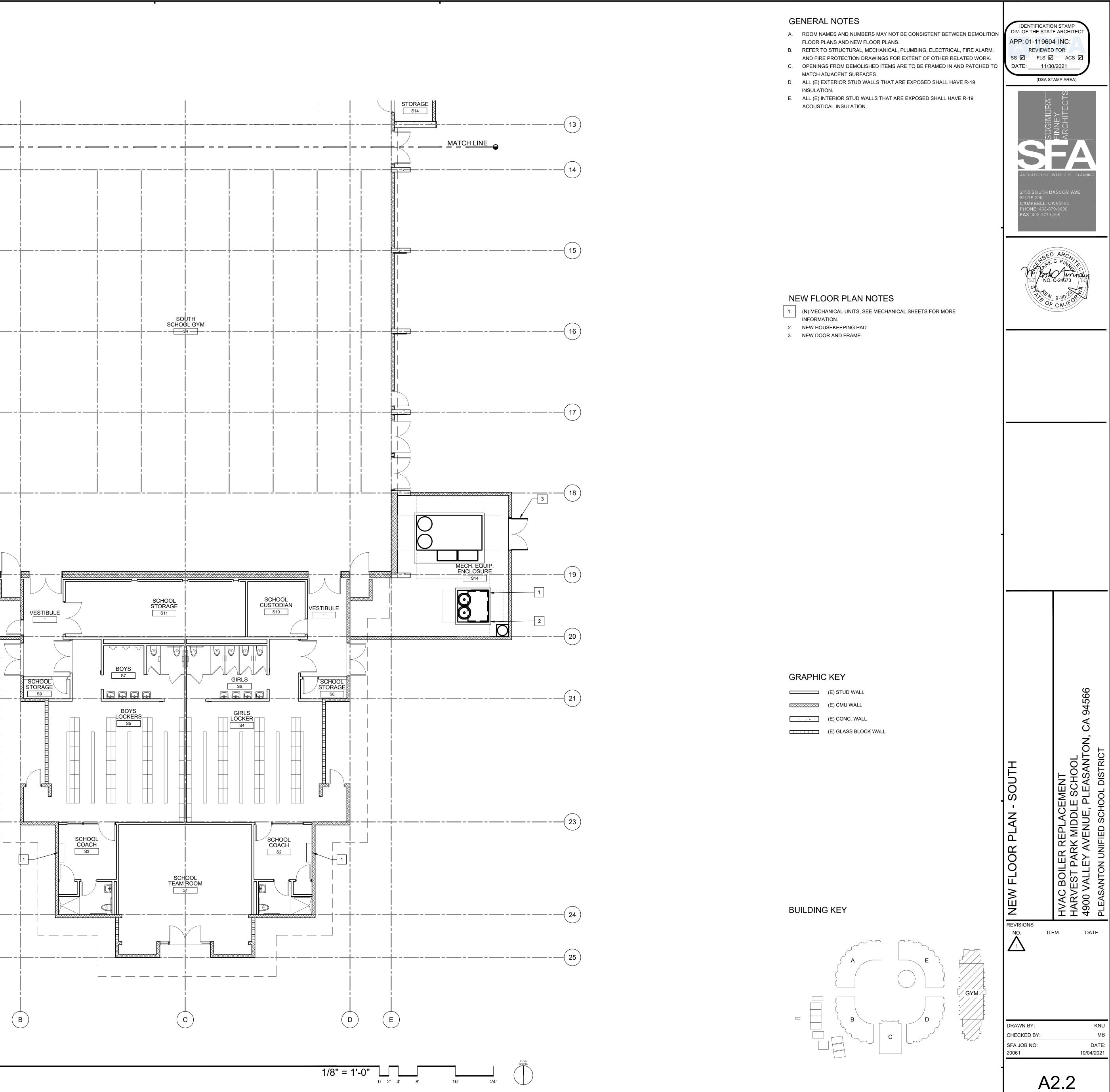
 	 				A
 	 				CIT MEN
 	 				i     
		x x x			
				EQUIPMENT ENCLOSURE	
		x x x			
		x x x			
		 ӨМА	<u>ATCH</u> LIN		



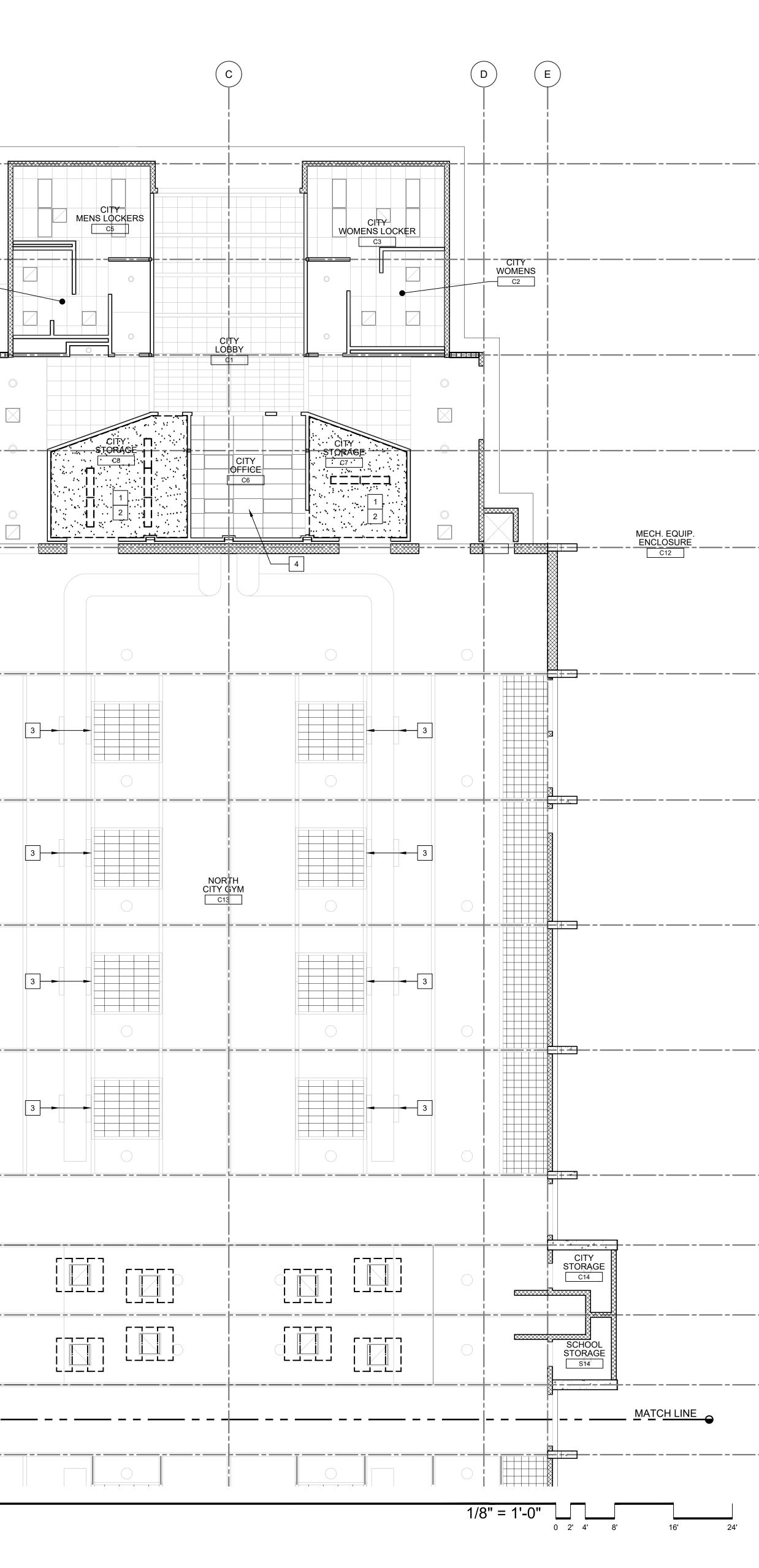
		<ul> <li>GENERAL NOTES</li> <li>A. ROOM NAMES AND NUMBERS MAY NOT BE CONSISTENT BETWE FLOOR PLANS AND NEW FLOOR PLANS.</li> <li>B. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, PROTECTION DRAWINGS FOR EXTENT OF OTHER RELATED WOR</li> <li>C. OPENINGS FROM DEMOLISHED ITEMS ARE TO BE FRAMED IN AN MATCH ADJACENT SURFACES.</li> </ul>
	2	
	3	
	4	<ul> <li>NEW FLOOR PLAN NOTES</li> <li>1. (N) MECHANICAL UNITS, SEE MECHANICAL SHEETS FOR MORE INFORMATION.</li> <li>2. NEW HOUSEKEEPING PAD, SEE DETAILS 5 &amp; 6 / A0.4</li> </ul>
	5	3. NEW DOOR AND FRAME, SEE DOOR SCHEDULE.
	6	
1 2	3	
	8	
	9	GRAPHIC KEY (E) STUD WALL (E) CMU WALL
	10	(E) CONC. WALL
	- (12)	
	12.5	BUILDING KEY
	13	
24'		



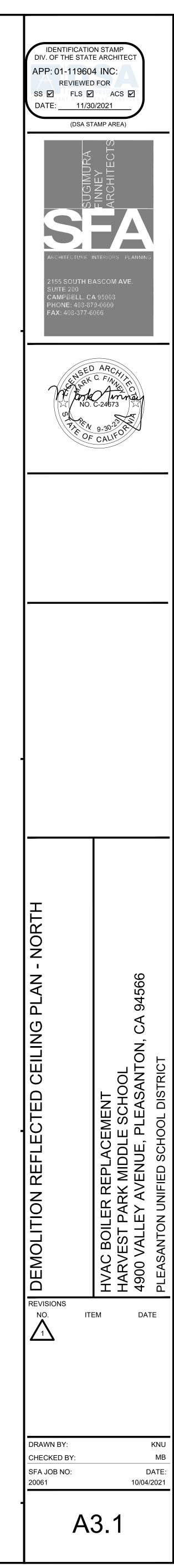
	A



		C4
		EQUIPMENT ENCLOSURE
	LADDER ROOM	



	<b>GENERAL NOTES</b> A. ALL CEILING / ROOF FRAMING TO HAVE R-30 INSULATION.
2	
3	
4	<ol> <li>REFLECTED CEILING PLAN NOTES         <ol> <li>REMOVE PARTIAL (E) CEILING FINISH AS NEEDED TO ACCOMMONDATE FOR VAC DUCT REMOVAL AND NEW INSTALLATION.</li> <li>REMOVE (E) LIGHT FIXTURES AND PREPARE FOR REINSTALLAT</li> <li>REGISTERS TO BE REPLACED, SEE MECHANICAL DRAWINGS</li> <li>REMOVE CEILING TILES AND LIGHT FIXTURES AS NEEDED TO ACCOMMODATE FOR HVAC DUCT REMOVAL AND NEW INSTALLAT</li> </ol> </li> </ol>
5	
6	
7	
8	
9	GRAPHIC KEY   MECHANICAL   SUPPLY DIFFUSER   RETURN AIR GRILLE   EXHAUST GRILLE
10	ELECTRICAL         SUSPENDED LIGHT FIXTURE         2' X 4' LIGHT FIXTURE         2' X 2' LIGHT FIXTURE
11	<ul> <li>RECESSED DOWNLIGHT</li> <li>EXIT SIGN</li> </ul>
12	BUILDING KEY
12.5	
13	

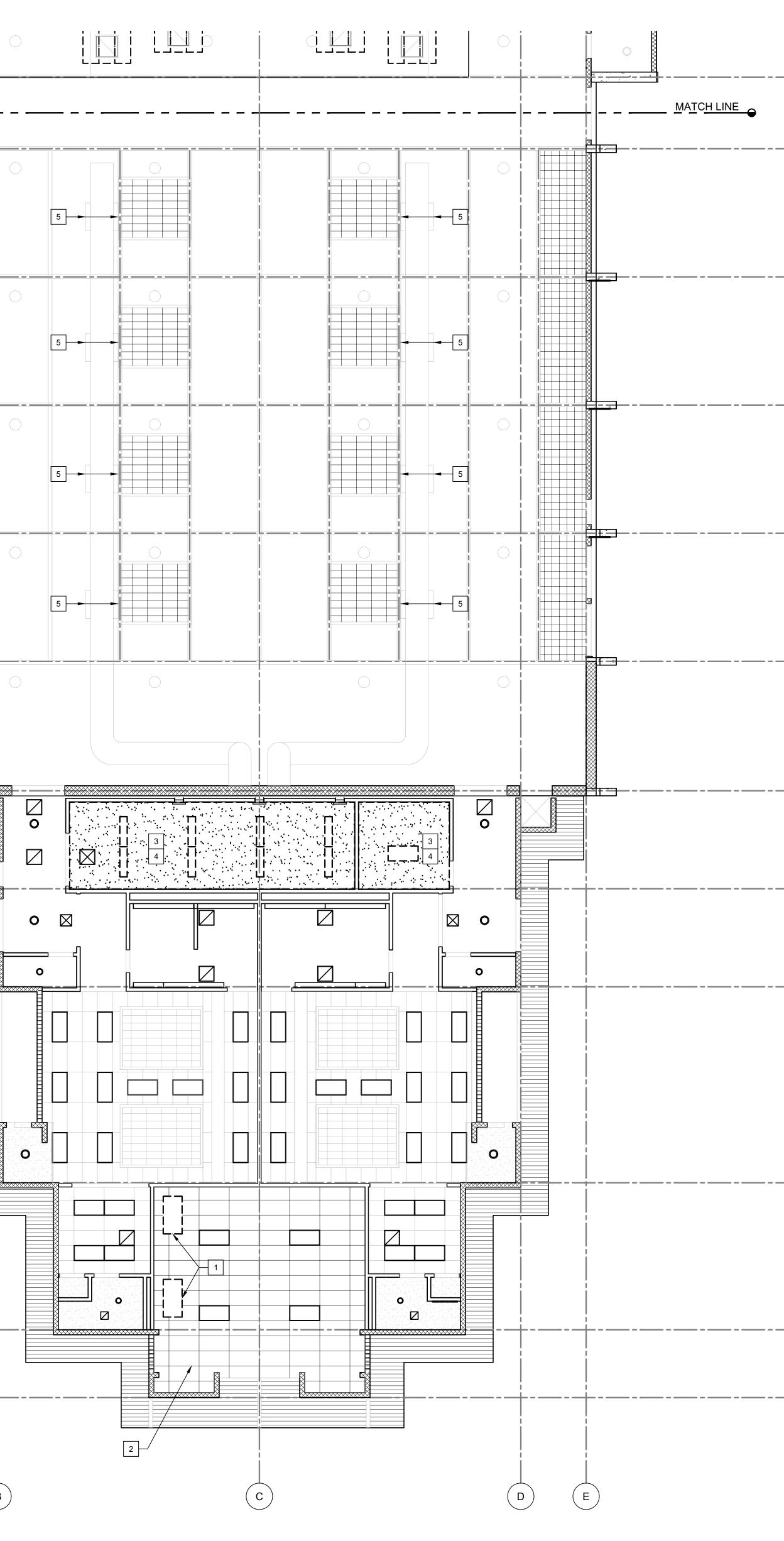


IMODATE FOR

LLATION.



	-						<u> </u>	
	-				<u>е Матсн L</u>			
	-							
-								
	-					E		
						_		
	-							
	-							
-								
	-							
	_							
	-							
	-							
	-							· = +
	-							
							A	В
	1	DEMOLITIC	N REFLEC	TED CEILI	NG PLAN -	SOUTH		

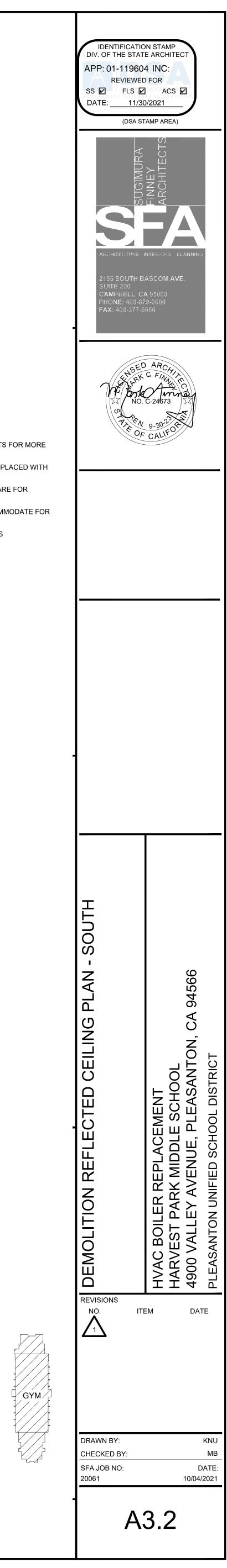


16' 24'

### GENERAL NOTES

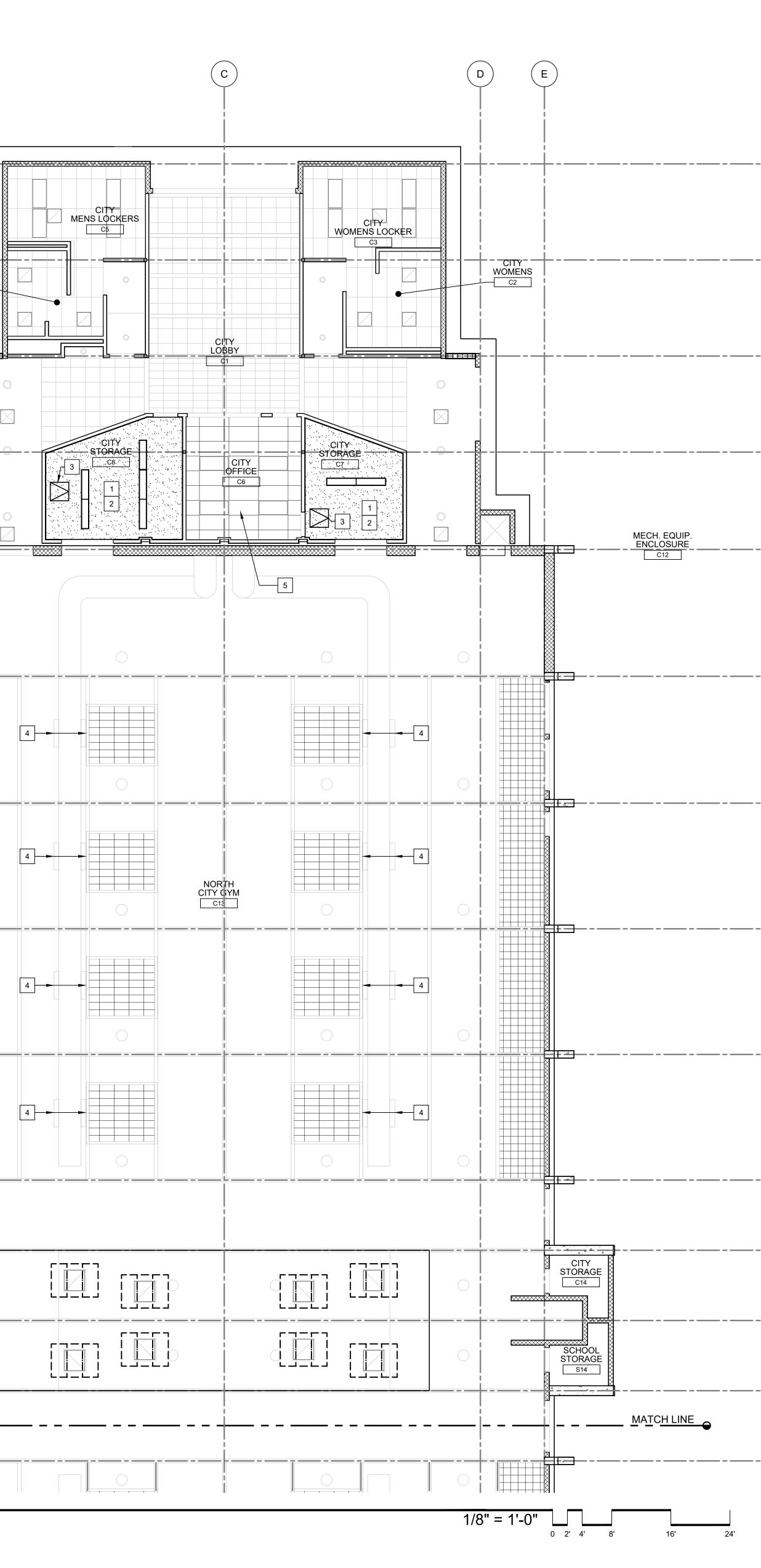
A. ALL CEILING / ROOF FRAMING TO HAVE R-30 INSULATION.

(13)	
14	
(15)	
(16)	<ol> <li>REFLECTED CEILING PLAN NOTES         <ol> <li>REMOVE EXISTING SPLIT SYSTEM, SEE MECHANICAL SHEETS FINFORMATION.</li> <li>REMOVE DAMAGED CEILING TILES, APPROX. 20%. TO BE REPLANEW.</li> <li>REMOVE (E) LIGHT AND MECHANICAL FIXTURES AND PREPARE REINSTALLATION.</li> <li>REMOVE (E) PARTIAL CEILING FINISH AS NEEDED TO ACCOMMON HVAC DUCT REMOVAL AND NEW INSTALLATION.</li> <li>REGISTERS TO BE REPLACED, SEE MECHANICAL DRAWINGS</li> </ol> </li> </ol>
(17)	
(18)	
(19)	
20	
21	GRAPHIC KEY   MECHANICAL   Image: Im
23	SUSPENDED LIGHT FIXTURE 2' X 4' LIGHT FIXTURE 2' X 2' LIGHT FIXTURE 0 RECESSED DOWNLIGHT 0 EXIT SIGN
24	BUILDING KEY

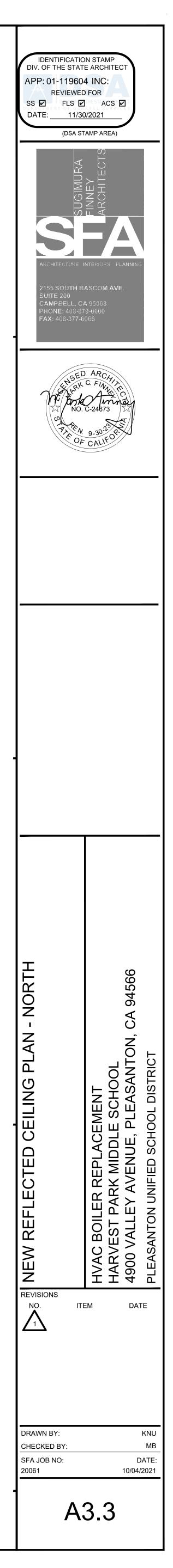


PLACED WITH RE FOR

		A   (
		CUSTODIAN C9
	LADDER ROOM	
	ROOM	
	<u> </u>	

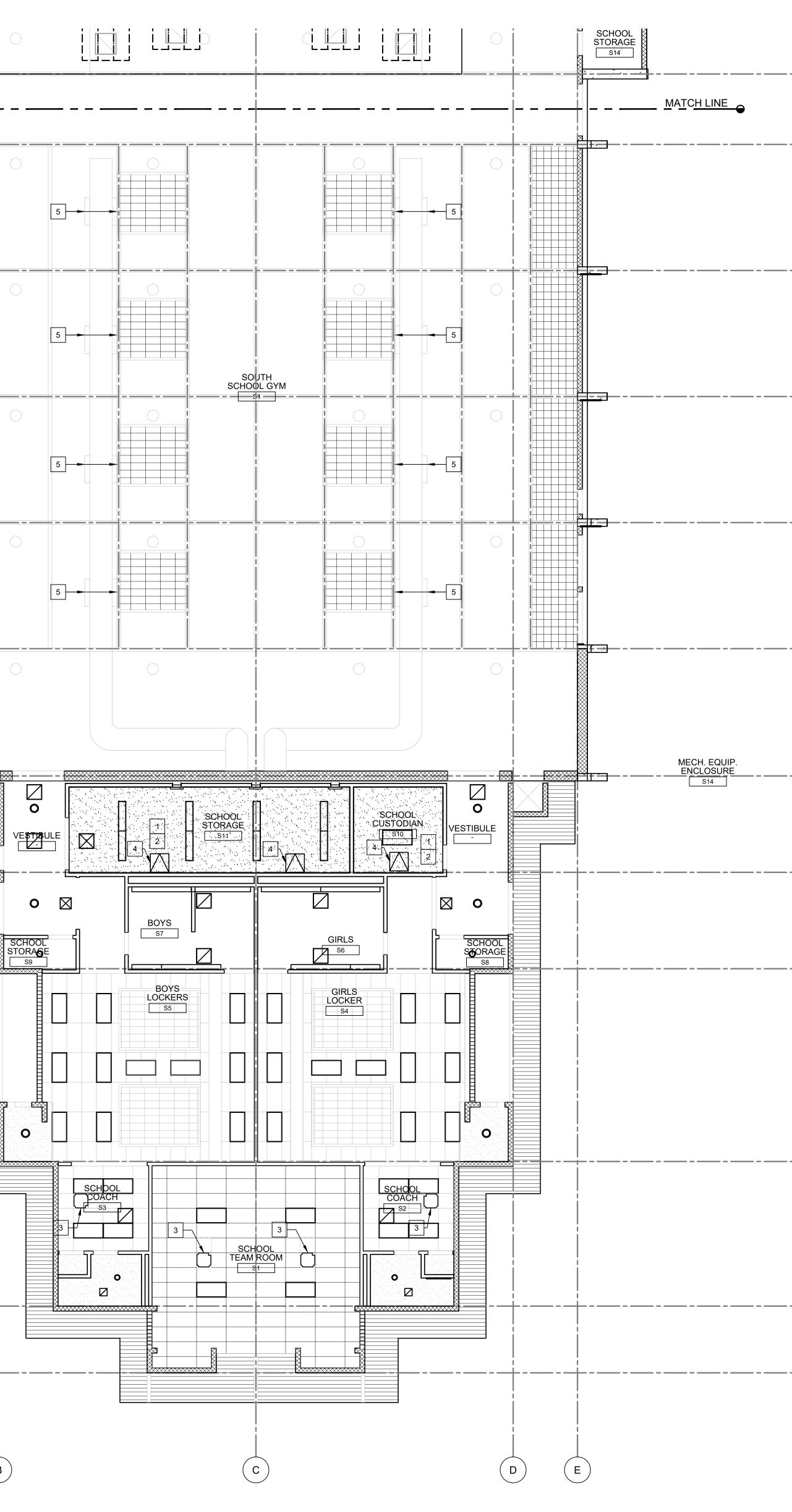


	<b>GENERAL NOTES</b> A. ALL CEILING / ROOF FRAMING TO HAVE R-30 INSULATION.
2	
3	REFLECTED CEILING PLAN NOTES
	<ol> <li>INSTALL NEW GYP BOARD CEILING, SEE SHEET A9.2</li> <li>REINSTALL EXISTING LIGHT FIXTURES</li> <li>NEW CEILING ACCESS PANEL SEE DETAIL 9/A9.2</li> <li>NEW REGISTERS, SEE MECHANICAL DRAWINGS.</li> <li>RE-INSTALL PREVIOUSLY REMOVED CEILING TILES.</li> </ol>
5	
6	
7	
9	GRAPHIC KEY   MECHANICAL   Image: Im
10	ELECTRICAL SUSPENDED LIGHT FIXTURE 2' X 4' LIGHT FIXTURE
11	<ul> <li>2' X 2' LIGHT FIXTURE</li> <li></li></ul>
(12)	BUILDING KEY
12.5	
13	



´ GYM

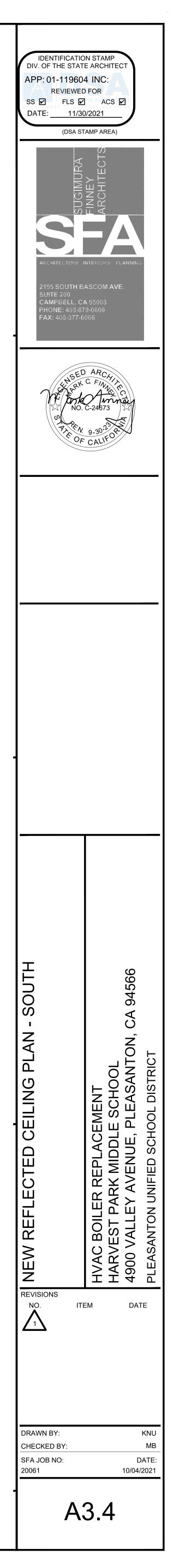
	● MATCH LIN	
	EQUIPMI ENCLOS	
		SCHOOL ELECT. S12
ELEC. EQUIP. ENCLOSURE		
= = = =		
		$(\mathbf{A})$



### GENERAL NOTES

A. ALL CEILING / ROOF FRAMING TO HAVE R-30 INSULATION.

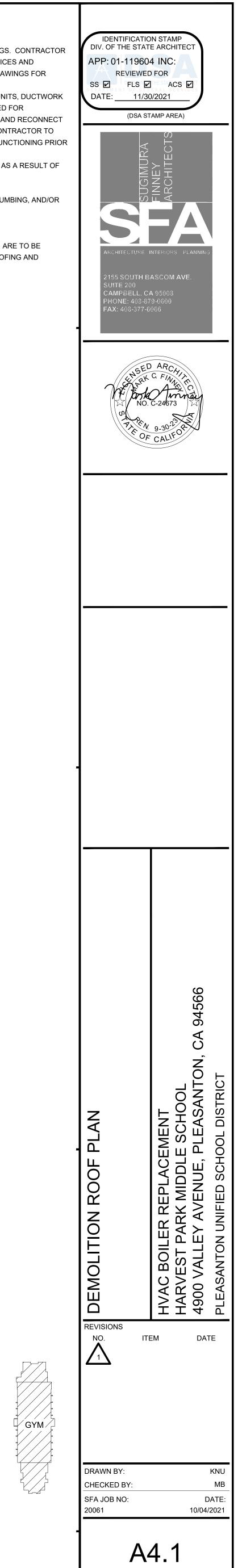
(14)	
(15)	
(16)	<ol> <li>REFLECTED CEILING PLAN NOTES</li> <li>NEW GYP BOARD CEILING, SEE SHEET A9.2</li> <li>REINSTALL EXISTING LIGHT AND MECHANICAL FIXTURES</li> <li>NEW MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS</li> <li>NEW CEILING ACCESS PANEL SEE DETAIL 9/A9.2</li> <li>NEW REGISTERS, SEE MECHANICAL DRAWINGS.</li> </ol>
(17)	
(18)	
(19)	
20	
21	GRAPHIC KEY   MECHANICAL   Image:
23	SUSPENDED LIGHT FIXTURE2'X 4' LIGHT FIXTURE2'X 2' LIGHT FIXTURE0RECESSED DOWNLIGHT🛇EXIT SIGN
24	BUILDING KEY



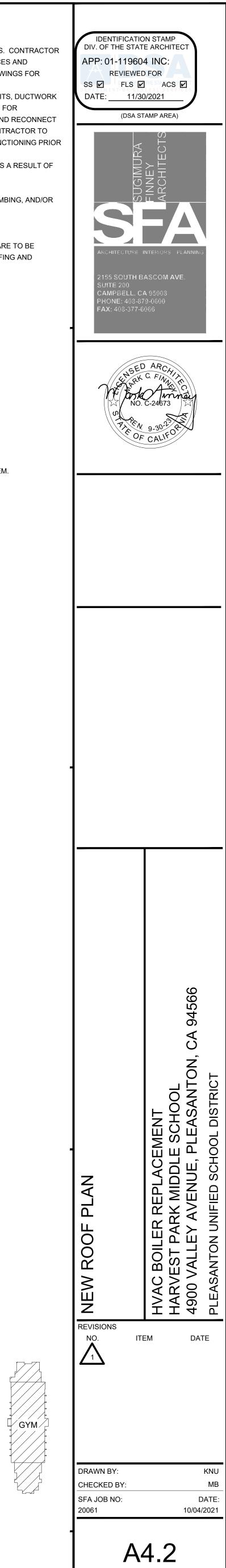


A B	С		) (E)	
	4:12 SLOPE 4:12 SLOPE			
	4:12 SLOPE B B B B C SLOPE B B SLOPE C SLOPE C			
			 = = = = = = =	= = =
	RDGE			
			7	
	4:12 UOPE OF SLOPE SLOPE →		·	
 			·	
 $\left[ \left[ \left$	— — – – 		·	
		Image: Solution of the second seco		
		$\begin{bmatrix} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & $		
		Image: A state of the state	·	
	4:12 SLOPE 4:12 SLOPE SLOPE →			= = =

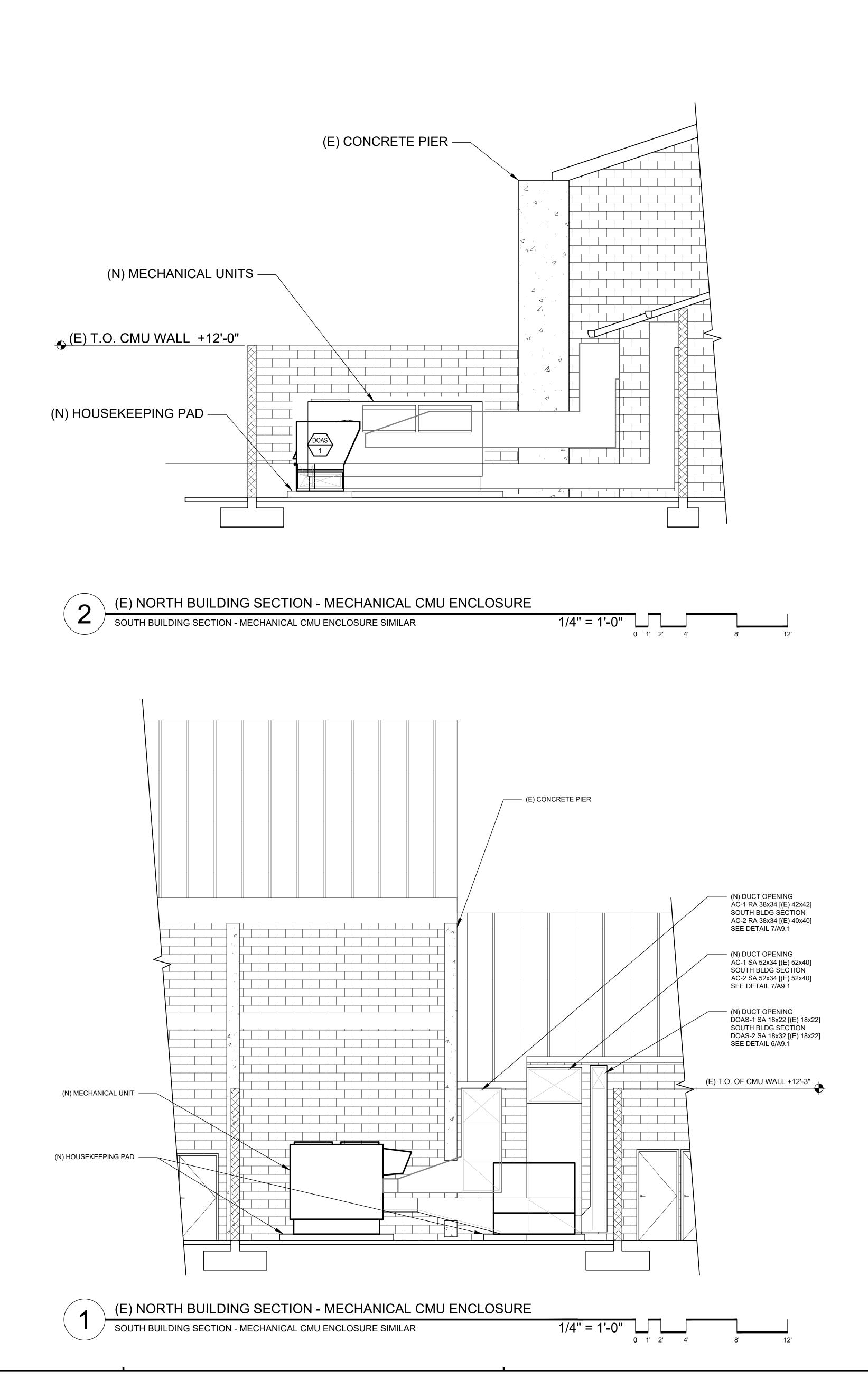
	<ul> <li>GENERAL NOTES</li> <li>A. NOT ALL ROOF APPURTENANCES ARE SHOWN ON DRAWINGS. O TO FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL DEVICES EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWIN ADDITIONAL SCOPE OF WORK.</li> <li>B. CONTRACTOR TO REMOVE AND REINSTALL MECHANICAL UNITS AND ALL OTHER ROOF TOP APPURTENANCES AS REQUIRED FO INSTALLATION OF ROOFING. CONTRACTOR TO REINSTALL AND ALL DEVICES AND RETURN THEM TO WORKING ORDER. CONTR. NOTIFY DISTRICT AND ARCHITECT OF ANY DEVICES NOT FUNCT TO REMOVAL.</li> <li>C. PATCH AND REPAIR BUILT-UP ROOFING WHERE REQUIRED AS A NEW WORK.</li> <li>D. PROVIDE R-30 INSULATION AT ROOF FRAMING.</li> <li>E. COORDINATE SLEEPER LOCATIONS WITH MECHANICAL, PLUMBII ELECTRICAL AS REQUIRED. SEE DETAIL XX.</li> </ul>
2	PM VERIFY THE FOLLOWING: F. ALL EXISTING ROOF SYSTEM, INSULATION, FLASHING, ETC. ARE REMOVED AND PREPARED FOR INSTALLATION OF NEW ROOFING FLASHING SYSTEMS.
3	
4	1.       DEMOLISH (E) MECHANICAL UNITS
5	
6	
7	
8	
9	GRAPHIC KEY
10	
(11)	
	BUILDING KEY
(13)	
24'	

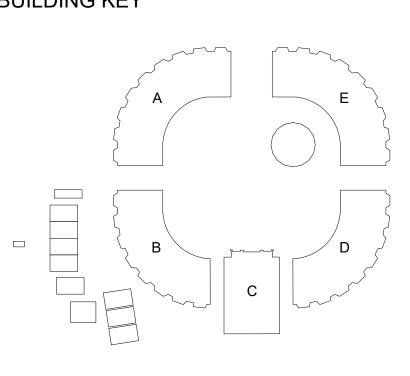


		<ul> <li>GENERAL NOTES</li> <li>A. NOT ALL ROOF APPURTENANCES ARE SHOWN ON DRAWINGS. TO FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL DEVICES EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWIN ADDITIONAL SCOPE OF WORK.</li> <li>B. CONTRACTOR TO REMOVE AND REINSTALL MECHANICAL UNITS AND ALL OTHER ROOF TOP APPURTENANCES AS REQUIRED FOR INSTALLATION OF ROOFING. CONTRACTOR TO REINSTALL AND ALL DEVICES AND RETURN THEM TO WORKING ORDER. CONTR NOTIFY DISTRICT AND ARCHITECT OF ANY DEVICES NOT FUNCT TO REMOVAL.</li> <li>C. PATCH AND REPAIR BUILT-UP ROOFING WHERE REQUIRED AS A NEW WORK.</li> <li>D. PROVIDE R-30 INSULATION AT ROOF FRAMING.</li> <li>E. COORDINATE SLEEPER LOCATIONS WITH MECHANICAL, PLUMBLE ELECTRICAL AS REQUIRED. SEE DETAIL XX.</li> </ul>
		PM VERIFY THE FOLLOWING: F. ALL EXISTING ROOF SYSTEM, INSULATION, FLASHING, ETC. ARE REMOVED AND PREPARED FOR INSTALLATION OF NEW ROOFIN FLASHING SYSTEMS.
		1.       NEW MECHANICAL UNIT, SEE MECHANICAL DRAWINGS         2.       CLEAN EXISTING LOUVERS
		3. NEW TOP LAYER AND COATING OVER EXISTING ROOF SYSTEM.
_		
-		
		BUILDING KEY
•	$1/8" = 1'-0" \underbrace{1}_{0 \ 2' \ 4' \ 8'} \underbrace{1_{6'}}_{16' \ 24'} \underbrace{1_{6'}}_{16' \ 24'}$	

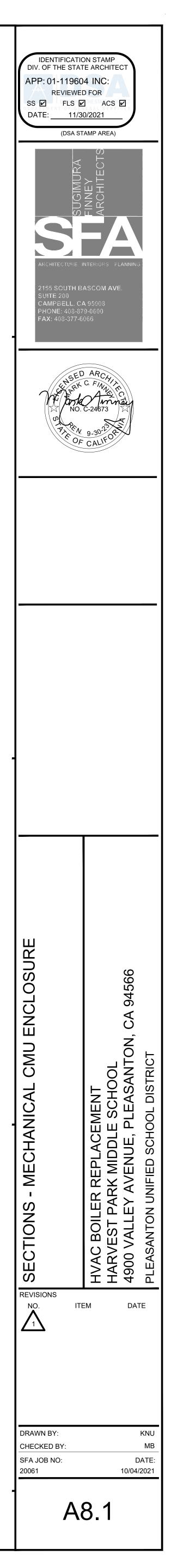


# OPYRIGHT © 202

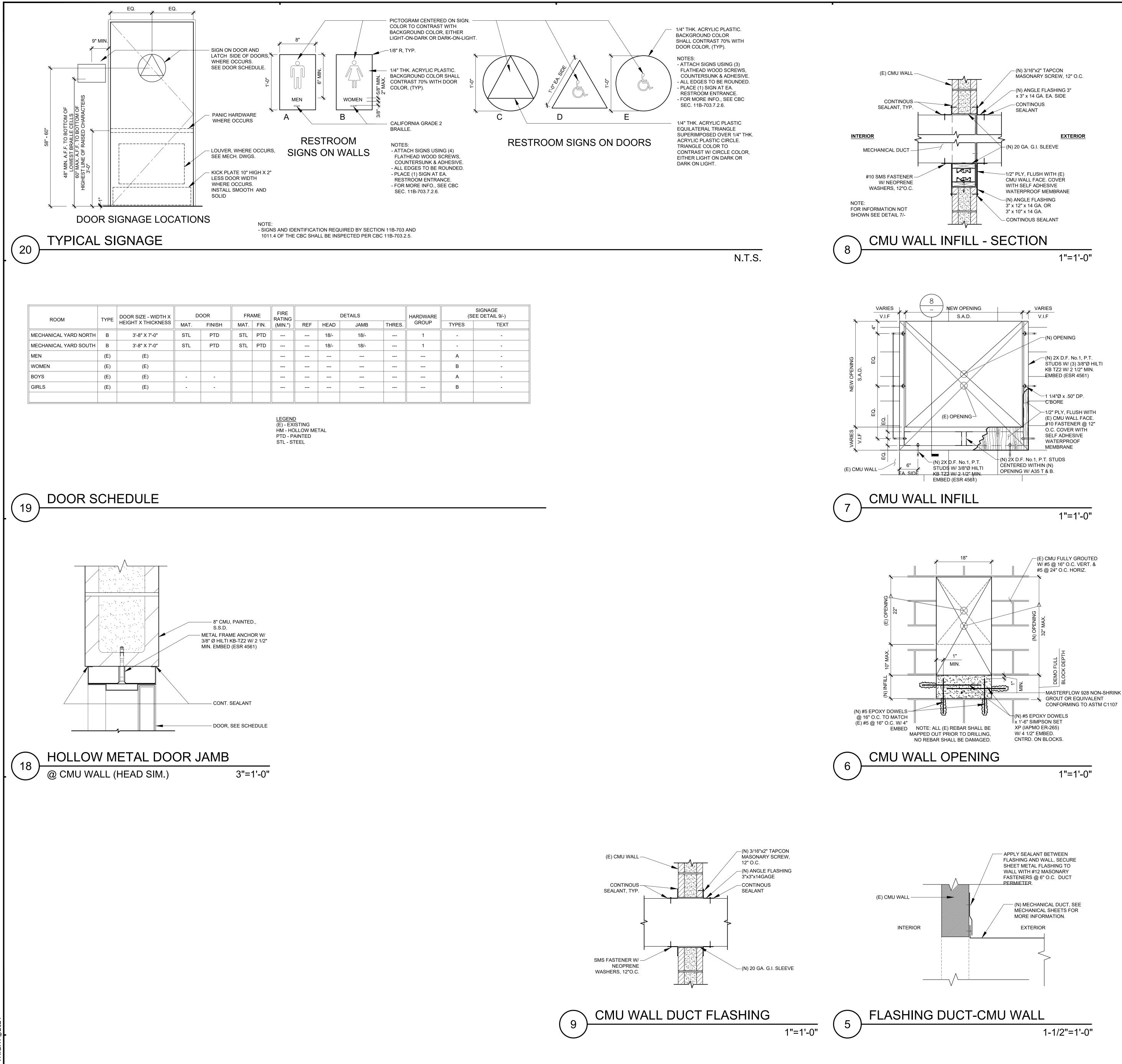




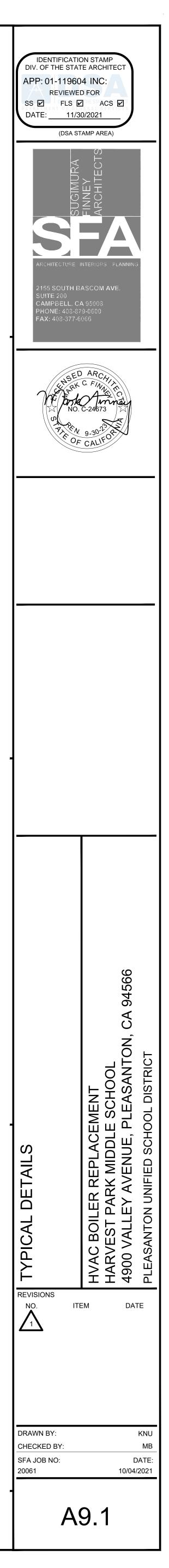
BUILDING KEY



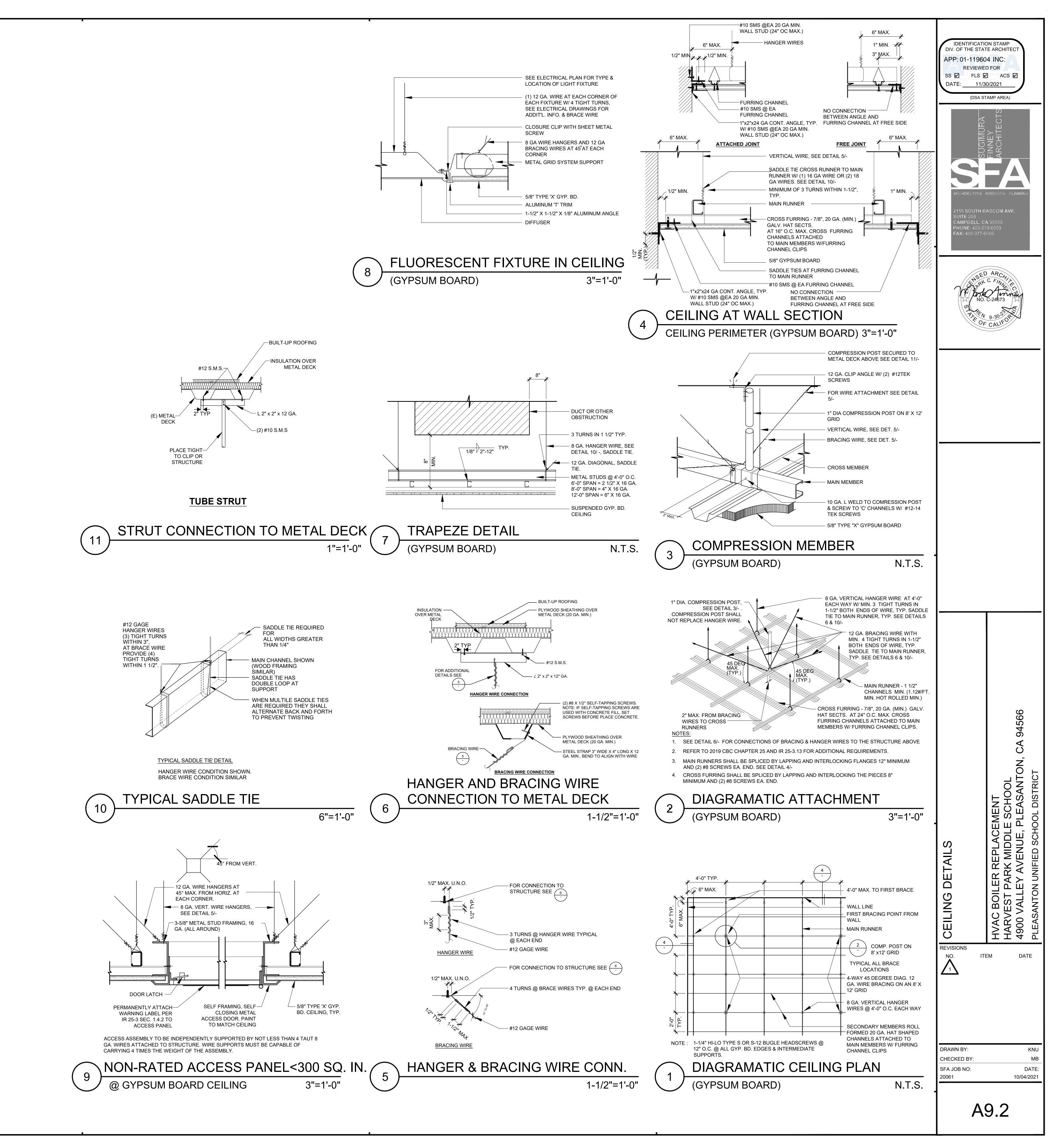




IARDWARE	SIGNAGE (SEE DETAIL 9/-)										
GROUP	TYPES	TEXT									
1	-	-									
1	-	-									
	А	-									
	В	-									
	А	-									
	В	-									



# OPYRIGHT © 202



 1
<ol> <li>THE INTENT OF THE CONTRACT DOCUME APPROVED BY DSA F</li> <li>THE SEISMIC SUPPO FOR CONFORMANCE</li> <li>ALL MECHANICAL AN CRITERIA FROM CHA</li> <li>WHERE ANCHORAGE ENGINEER AND THE</li> <li>NO DEMOLITION SHA</li> </ol>
ALL MECHANICAL, PLUMB DOCUMENTS. THE FOLLOV 2019 CBC, SECTIONS 1617 1. ALL PERMANENT EQ 2. TEMPORARY, MOVAE ELECTRICITY, GAS O HAVING A FLEXIBLE 3. TEMPORARY, MOVAE ADJACENT FLOOR O THE FOLLOWING MECHAN COMPLIANCE WITH THE R ASSOCIATED DUCTWORK A. COMPONENTS WEIG THAT DIRECTLY SUP B. COMPONENTS WEIG FROM A ROOF OR FL THE ANCHORAGE OF ALL GENERAL RESPONSIBLE O
THAT ALL COMPONENTS /         PIPING, DUCTWORK, AND         SECTION 13.3 AS DEFINED         THE METHOD OF SHOWIN         AND ATTACHMENTS ARE INSTALLATION GUIDE OR         SYSTEMS. THE STRUCTUF         MECHANICAL PIPING (MP)         MP MD PP         MP MD X PP

#### ABBREVIAT EXTERNAL STATIC PR & AND ESP DEGREES FAHRENHEIT EW ENTERING WATER °F AAV AUTOMATIC AIR VENT EWB ENTERING WET BULB AIR CONDITIONER EWT ENTERING WATER TE AC EXT AD ACCESS DOOR EXTERIOR FLOOR DRAIN ABOVE FINISH FLOOR AFF FD AFUE ANNUAL FUEL UTILIZATION EFFICIENCY FFE FINISHED FLOOR ELE ACOUSTICALLY LINED AL FLA FULL LOAD AMPS AMP FLEX AMPERE FLEXIBLE AP FPM FEET PER MINUTE ACCESS PANEL FS FLOOR SINK APPROX APPROXIMATE FT FEET ARCH ARCHITECT/ARCHITECTURAL FT HD FEET HEAD BDD BACK DRAFT DAMPER FTR FLUE THRU ROOF BFP BACK FLOW PREVENTER GAUGE BHP GA BRAKE HORSEPOWER GAL GALLON BLDG BUILDING BOD BOTTOM OF DUCT GPM GALLONS PER MINUT BOP BOTTOM OF PIPE HP HORSEPOWER HOUR BTU BRITISH THERMAL UNIT HR BRITISH THERMAL UNITS PER HOUR HTG HEATING BTUH HERTZ CA COMBUSTION AIR ΗZ CFH CUBIC FEET PER HOUR INVERT ELEVATION IE CFM CUBIC FEET PER MINUTE IN INCH INVERT CHWR CHILLED WATER RETURN INV CHWS CHILLED WATER SUPPLY KILOWATTS KW CIRC CIRCULATING CLG COOLING, CEILIN CLR CLEAR KWH KILOWATT HOUR COOLING, CEILING LAT LEAVING AIR TEMPE LBS POUNDS CONC CONCRETE LVR LOUVER CONN CONNECTION LWT LEAVING WATER TEM CONT CONTINUED, CONTINUATION LWB LEAVING WET BULB COOL COOLING MAD, MD MANUAL AIR DAMPER MAV MANUAL AIR VENT COP COEFFICIENT OF PERFORMANCE MAX MAXIMUM DB DRY BULB MBH 1000 BTU PER HOUR DRINKING FOUNTAIN DF DOOR LOUVER MCA MINIMUM CIRCUIT AM D/L MCP MECHANICAL CONTRO DN DOWN MECH MECHANICAL DP DIFFERENTIAL PRESSURE DWGS DRAWINGS MFR MANUFACTURER MIN MINIMUM EXISTING (E) MOCP MAXIMUM OVERCURF EXHAUST AIR EA NEW EAD EXHAUST AIR DAMPER (N) NC NORMALLY CLOSED EAT ENTERING AIR TEMPERATURE NIC NOT IN CONTRACT EDB ENTERING DRY BULB EER NO NORMALLY OPEN ENERGY EFFICIENCY RATIO EFF NOT TO SCALE EFFICIENCY NTS ELEC ELEV OUTSIDE AIR ELECTRICAL OA OUTSIDE AIR DAMPE OAD ELEVATION ENT ON CENTER ENTERING OC OUTSIDE DIAMETER EQ EQUAL OD PRESSURE DROP EQUIP EQUIPMENT PD DSA GENERAL NOTES SYMBOL LE SINGLE LINE DOUBLE LINE DESCRIPTION CONTRACT DOCUMENTS IS TO MODERNIZE THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE SYMBOL SYMBOL ENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND BEFORE PROCEEDING WITH THE WORK. DRT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD E WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN. LONG SWEEP 90° ELBOW -ND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE RECTANGULAR, ROUND APTER 16A CALIFORNIA BUILDING CODE (CBC) 2019. OR OVAL E DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT. HALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA. 45° ELBOW -RECTANGULAR, ROUND OR OVAL 30° ELBOW -RECTANGULAR, ROUND OR OVAL 90° ELBOW -RECTANGULAR DUCT WITH TURNING VANES 45° LATERAL -ROUND TO ROUND OR OVAL TO OVAL 90° TAKEOFF WITH 45° TAPER -RECTANGULAR TO RECTANGULAR (FOR BRANCH TAKEOFF LONGER THAN 50'-0", USE 15) MEP COMPONENT ANCHORAGE NOTE 90° TAKEOFF WITH 45° ELONGATED TEE -ROUND TO ROUND BING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON DSA APPROVED CONSTRUCTION WING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 17A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30. QUIPMENT AND COMPONENTS. Y BRANCH -BLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ROUND OR OVAL DUCT OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES CABLE. ABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE DR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA. 90° RADIUS SPLIT -RECTANGULAR DUCT, PROVIDE NICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN SPLITTER DAMPER, X/Y REFERENCED NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND PROPORTIONAL SPLIT , PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS: GHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL PPORT THE COMPONENT. 90° RECTANGULAR SPLIT -RECTANGULAR DUCT, PROVIDE GHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED SPLITTER DAMPER, X/Y LOOR OR HUNG FROM A WALL PROPORTIONAL SPLIT MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS. TRANSITION -RECTANGULAR TO ROUND OR $\leftarrow$ RECTANGULAR TO OVAL FLEXIBLE DUCT - ROUND FLEXIBLE DUCT - RECTANGULAR NG, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE SYMBOL ABBRV. IDENTIFICATION CAP F-----ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 CONT CONTINUATION D 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 1617A.1.26. UNION IG BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING LINE BREAK BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 BC OR LATER), COPIES OF THE BRACING SYSTEM MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION $\checkmark$ CKV CHECK VALVE JRAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. $\mathbb{A}$ T&PRV TEMP. & PRESS. RELIEF VALVE ), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. ->>- OR -VALVE CONCENTRIC & ECCENTRIC REDUCERS E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13, "MASON WEST, INC. SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS" OR #0052-13, "B-LINE/TOLCO SEISMIC RESTRAINT SYSTEMS GUIDELINES" < AD, AP ACCESS DOOR, ACCESS PANEL MAV MANUAL AIR VENT T THERMOSTAT MOUNTED @ 48" AFF. MAX. (T) (co2)CO2 CARBON DIOXIDE (CO2) SENSOR

ATIONS	LIST OF GOVERNING CODES
PRESSURE PH PHASE POC POINT OF CONNECTION ULB PRV PRESSURE REDUCING VALVE RTEMPERATURE PSI (G) (A) POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE) P/T PRESSURE/TEMPERATURE ELEVATION QTY QUANTITY RA RETURN AIR RAD RETURN AIR SOV SHUT-OFF VALVE SA SUDARE INCHES SPEC SPECIFICATION SQ SQUARE SPEC SPECIFICATION SQ SQUARE INCHES SPEC SPECIFICATION SQ SQUARE SUDARE SOV SHUT-OFF VALVE SOU STATC TOTAL COULING AIR STATC PAREL T THERMERATURE T THERMERATURE T THERMERATURE T THERMERATURE SA SUDARE STATC TOTAL STATIC PRESSURE SO TYP TYPICAL SAMPS TYPICAL SAMPS TYPICAL SAMPS TYPICAL SAMPS TYPICAL	<ul> <li>2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.</li> <li>2019 CALFORMA BUELDING: CODE PART 3, TITLE 24, C.C.R.</li> <li>2019 CALFORMA ELECTRACI, CODE (CPC), PART 3, TITLE 24, C.C.R.</li> <li>2015 CALFORMA FLUMENCE CODE (CPC), PART 3, TITLE 24, C.C.R.</li> <li>2016 CALFORMA FLUMENCE CODE (CPC), PART 3, TITLE 24, C.C.R.</li> <li>2016 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2016 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2016 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2016 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2017 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2018 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2019 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2019 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2019 CALFORMA CREEN BUILT (CPC), FART 3, TITLE 24, C.C.R.</li> <li>2019 CALFORMA CREEN BUILT (CPC), STANDARDS (CPC), FART 11, TITLE 24, C.C.R.</li> <li>2019 CALFORMA CREEN BUILT (CPC), STANDARDS 4, PART 1, TITLE 24, C.C.R.</li> <li>2019 CALFORMA CREEN BUILT (CPC), STANDARDS 4, PART 1, TITLE 24, C.C.R.</li> <li>2019 CALFORMA CREEN BUILT (CPC), STANDARDS 4, PART 1, TITLE 24, C.C.R.</li> <li>2010 CALFORMA CREEN BUILT (CPC), STANDARDS 4, PART 1, TITLE 24, C.C.R.</li> <li>2010 CALFORMA CREEN BUILT (CPC), STANDARD CANDOUNCUS INSPECTION OF WORK PER SECTION 4.33(b) AND 4.342.</li> <li>2010 CALFORMARD (CPC) CPC), STAND CARDINAL CREEN BUILT (CPC), STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4.33(c).</li> <li>2010 CALFORMS CODE STRUCTION PER PART 1, TITLE 24, C.C.R. 1, DUTES OF ARCHTECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4.33(c).</li> <li>2010 CALFORMS CODE STRUCTION PER PART 1, TITLE 24, C.C.R. 1, DUTES OF ARCHTECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4.33(c).</li> <li>2010 CALFORMS CODE STRUCTION PER PART 1, TITLE 24, C.C.R. 1, DUTES OF ARCHTECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENG</li></ul>
EGEND	GENERAL NOTES
OTTORIZED BALANCE DAMPER       Image: String of the string of	Contractors evel user the set Prior to Subsection (Final DB organization) of the Contractors and the work of the Contractors and the set present of the Contractors and the set present on the Subsection of the Contractors and the set present of the Contractors and resent of the Contractors and resent of the Present of the Contractors and resent of the Contractors an
SYMBOL ABBRV. IDENTIFICATION P.O.C. POINT OF CONNECTION	DRAWING INDEX
P.O.C.     POINT OF CONNECTION       / / / / / /     REMOVE EXISTING        TEE DOWN	<ul> <li>MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL &amp; PLUMBING</li> <li>MP0.2 SCHEDULES AND SEQUENCES OF OPERATION - MECHANICAL &amp; PLUMBING</li> <li>MP2.1 DEMOLITION FLOOR PLAN - GYM NORTH HALF - MECHANICAL &amp; PLUMBING</li> </ul>

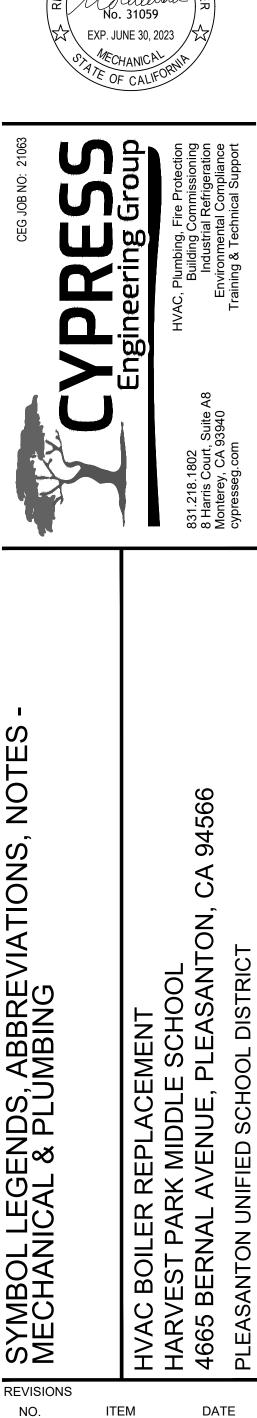
•	P.O.C.	POINT OF CONNECTION	
		REMOVE EXISTING	MP0.1 SYMBOL LEGENDS, ABBREVIATIONS, NOTES - MECHANICAL & PLUMBING MP0.2 SCHEDULES AND SEQUENCES OF OPERATION - MECHANICAL & PLUMBING
		TEE DOWN	MP2.1 DEMOLITION FLOOR PLAN - GYM NORTH HALF - MECHANICAL & PLUMBING
C		90 DOWN	MP2.2 DEMOLITION FLOOR PLAN - GYM SOUTH HALF - MECHANICAL & PLUMBING MP2.3 NEW FLOOR PLAN - GYM NORTH HALF - MECHANICAL & PLUMBING
FC		EQUIPMENT DESIGNATION	MP2.4 NEW FLOOR PLAN - GYM SOUTH HALF - MECHANICAL & PLUMBING MP4.1 DEMOLITION AND NEW - PARTIAL FLOOR PLANS - GYM MECHANICAL YARD - MECHANICAL & PLUMBING MP4.2 SECTIONS - GYM MECHANICAL YARDS - MECHANICAL
		— TAG NUMBER	MP5.1       REFRIGERANT PIPING DIAGRAMS - MECHANICAL         MP6.1       DETAILS - MECHANICAL & PLUMBING         MP7.1       EQUIPMENT CURB DRAWINGS - MECHANICAL         MP8.1       TITLE 24 DOCUMENTS - MECHANICAL

MP8.2 TITLE 24 DOCUMENTS - MECHANICAL

SECTION 1 / SHEET M2.1



#### NTRACTOR SHALL G STRUCTURES,



DRAWN BY: CHECKED BY: SFA JOB NO: 0061

**MP0.1** 

DATE: 09/17/2021

### SEQUENCES OF OPERATION

NOTE: THERMOSTAT CONNECTION TO OWNER'S CLOUD THERMOSTAT MANAGEMENT SYSTEM AND HVAC SYSTEM OPERATION SHALL BE VERIFIED BY COMMISSIONING AUTHORITY DIRECTLY HIRED BY DISTRICT. CONTRACTOR TO PROVIDE SUPPORT AND ASSISTANCE AS REQUIRED.

- 5. CONTROLLER SHALL MODULATE FAN SPEED TO MAINTAIN BUILDING PRESSURE SETPOINT
- 4. CONTROLLER SHALL BE ADJUSTED TO MAINTAIN A MAXIMUM BUILDING STATIC PRESSURE OF +0.03".
- 2. PRESSURE TRANSDUCER SHALL BE LOCATED INSIDE BUILDING. 3. CONTRACTOR SHALL INSTALL PRESSURE TUBING TO MEASURE BUILDING STATIC PRESSURE IN REFERENCE TO OUTDOOR AMBIENT PRESSURE.
- ROOF EXHAUST FANS (EF-8 THRU 15): . EACH EXHAUST FAN SHALL BE CONTROLLED BY GREENHECK VARI-GREEN CONSTANT PRESSURE CONTROLLER.
- 5. DURING UNOCCUPIED HOURS, FAN SHALL ONLY RUN TO MAINTAIN AFTER-HOURS SETPOINT. UNOCCUPIED HEATING SETPOINT SHALL BE SET TO 60°F. UNOCCUPIED COOLING SETPOINT SHALL BE SET TO 90°F.
- 4. DOAS UNIT SHALL OPERATE CONTINUOUSLY DURING SCHEDULED OCCUPIED HOURS.
- AND NETWORK SETTINGS. 3. DOAS UNIT SHALL OPERATE UNDER ITS OWN INTERNAL CONTROL TO PROVIDE HEATING OR COOLING BASED ON ROOM SETPOINT.
- EACH DOAS UNIT SHALL BE CONTROLLED BY PELICAN WIRELESS THERMOSTAT. COORDINATE WITH OWNER'S REPRESENTATIVE FOR NETWORK SETTINGS, OCCUPANCY SCHEDULES, SETPOINTS, SETBACK, ETC. PELICAN WIRELESS THERMOSTAT SHALL BE CONNECTED TO (E) WIRELESS GATEWAY ON CAMPUS. COORDINATE WITH OWNER'S REPRESENTATIVE FOR IP ADDRESS
- DOAS UNITS:
- 11. DURING UNOCCUPIED HOURS OPERATION, OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.
- 10. WHEN UNIT IS OFF, OUTSIDE AIR DAMPER SHALL BE CLOSED.
- 9. MOTORIZED OUTSIDE AIR DAMPER SHALL OPEN TO MINIMUM POSITION WHEN AC UNIT IS OPERATING. BALANCE CONTRACTOR SHALL DETERMINE SETPOINT. CONTROLLER SHALL ADJUST OUTSIDE AIR DAMPER POSITION BASED ON FAN SPEED TO MAINTAIN OUTSIDE AIR CFM.
- 8. PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER OPEN IF ROOM CO2 LEVEL RISES ABOVE 1000 PPM.
- SETPOINTS TO UNOCCUPIED SETPOINTS AND AC UNIT SHALL ONLY OPERATE IF THERE IS A HEATING OR COOLING DEMAND. PELICAN WIRELESS PEARL ECONOMIZER CONTROLLER SHALL MODULATE OUTSIDE AIR DAMPER TO PROVIDE FREE COOLING WHEN OUTSIDE AIR IS BELOW 75°F (HIGH TEMP LIMIT) AND OUTSIDE AIR TEMPERATURE IS 2°F BELOW ROOM TEMPERATURE (MIN TEMP DIFFERENTIAL).
- 5. DURING UNOCCUPIED HOURS, FAN SHALL ONLY RUN TO MAINTAIN AFTER-HOURS SETPOINT. UNOCCUPIED HEATING SETPOINT SHALL BE SET TO 60°F. UNOCCUPIED COOLING SETPOINT SHALL BE SET TO 90°F. 6. OCCUPANCY SENSOR SHALL BE HARDWIRED TO DRY CONTACT INPUT ON PRX1. IF SPACE IS VACANT DURING OCCUPIED HOURS, THERMOSTAT SHALL SETBACK
- 4. AC UNIT SHALL OPERATE CONTINUOUSLY DURING SCHEDULED OCCUPIED HOURS.
- AND NETWORK SETTINGS. 3. AC UNIT SHALL OPERATE UNDER ITS OWN INTERNAL CONTROL TO PROVIDE HEATING OR COOLING BASED ON ROOM SETPOINT.
- EACH AC UNIT SHALL BE CONTROLLED BY PELICAN WIRELESS THERMOSTAT. COORDINATE WITH OWNER'S REPRESENTATIVE FOR NETWORK SETTINGS, OCCUPANCY SCHEDULES, SETPOINTS, SETBACK, ETC. PELICAN WIRELESS THERMOSTAT SHALL BE CONNECTED TO (E) WIRELESS GATEWAY ON CAMPUS. COORDINATE WITH OWNER'S REPRESENTATIVE FOR IP ADDRESS
- PROVIDE PELICAN WIRELESS REPEATER IF NECESSARY TO OBTAIN STRONG SIGNAL CONNECTION. CONTRACTOR RESPONSIBLE FOR PROGRAMMING AND INITIAL SETUP. PROVIDE PELICAN WIRELESS SUPPLY AIR TEMPERATURE SENSOR AT ALL UNITS. PACKAGED AC UNITS:

TAG EF-1 EF-2 EF-3 EF-4 EF-5 EF-6 EF-7 EF-8 EF-9 EF-10 EF-11 EF-12 EF-13 EF-14 EF-15 WEIGHT INCLUDES ACCESSORIES.

NECESSARY.

EXHAUST FANS SCHEDULE													
MANUFACTURER	MODEL NO.	AREA(S) SERVED	AIRFLOW CFM	ESP IN. W.G.	FAN RPM	SOUND POWER SONES	WATTS	MOTOR HP	V / PH	WEIGHT LBS	MOUNTING DETAIL	NOTES	
GREENHECK	CSP-A1300	BOYS TOILET BOYS LOCKER	1015	0.50	1310	2.5	789	_	115 / 1	60	8/MP6.1	1, 2, 3	
GREENHECK	CSP-A1410	GIRLS TOILET GIRLS LOCKER	1275	0.50	1450	3.5	699	_	115 / 1	60	8/MP6.1	1, 2, 3	
GREENHECK	SP-A90	BOYS COACH OFFICE SHOWER	75	0.25	900	0.4	15	_	115 / 1	15	7/MP6.1	1, 2, 3, 7	
GREENHECK	SP-A90	GIRLS COACH OFFICE SHOWER	75	0.25	900	0.4	15	_	115 / 1	15	7/MP6.1	1, 2, 3, 7	
GREENHECK	CSP-A700-VG	MENS LOCKER MENS TOILET	600	0.50	1196	0.8	126	_	115 / 1	40	8/MP6.1	1, 2, 3	
GREENHECK	CSP-A700-VG	WOMENS LOCKER WOMENS TOILET	600	0.50	1196	0.8	126	_	115 / 1	40	8/MP6.1	1, 2, 3	
GREENHECK	SP-A110	JANITOR	90	0.25	950	0.6	17	_	115 / 1	20	7/MP6.1	1, 2, 3, 7	
GREENHECK	G-260-VGD-5	NORTH GYM	3400	0.25	367	8.7	_	1/2	460 / 3	250	9/MP6.1	1, 4, 5, 6	
GREENHECK	G-260-VGD-5	NORTH GYM	3400	0.25	367	8.7	_	1/2	460 / 3	250	9/MP6.1	1, 4, 5, 6	
GREENHECK	G-260-VGD-5	NORTH GYM	3400	0.25	367	8.7	_	1/2	460 / 3	250	9/MP6.1	1, 4, 5, 6	
GREENHECK	G-260-VGD-5	NORTH GYM	3400	0.25	367	8.7	_	1/2	460 / 3	250	9/MP6.1	1, 4, 5, 6	
GREENHECK	G-260-VGD-5	SOUTH GYM	3400	0.25	367	8.7	_	1/2	460 / 3	250	9/MP6.1	1, 4, 5, 6	
GREENHECK	G-260-VGD-5	SOUTH GYM	3400	0.25	367	8.7	_	1/2	460 / 3	250	9/MP6.1	1, 4, 5, 6	
GREENHECK	G-260-VGD-5	SOUTH GYM	3400	0.25	367	8.7	_	1/2	460 / 3	250	9/MP6.1	1, 4, 5, 6	
GREENHECK	G-260-VGD-5	SOUTH GYM	3400	0.25	367	8.7	_	1/2	460 / 3	250	9/MP6.1	1, 4, 5, 6	

Т	AG
DC	)AS-1
DC	AS-2
1. 2. 3	PR( WE PR(

TAG	MANUFACTURER
AC-1	CARRIER
AC-2	CARRIER
•	

WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES. PROVIDE WITH GREENSPEED INTELLIGENCE, STAGED HIGH GAS HEAT STAINLESS, CONTROLS EXPANSION MODULE WITH PHASE MONITOR, 20 HP MOTOR WITH VFD, E-COAT AL/CU CONDENSER AND E-COAT AL/CU EVAPORATOR WITH VARIABLE COMPRESSOR, LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF, LOUVERED HAIL GUARD, POWERED CONVENIENCE OUTLET, HINGED ACCESS PANELS, AND STAINLESS STEEL DRAIN PAN. 3. PROVIDE WITH MERV 13 FILTERS.

PROVIDE WITH UL LISTING, BACKDRAFT DAMPER, AND FACTORY ISOLATION KIT. PROVIDE WITH FAN MOUNTED SPEED CONTROL. PROVIDE WITH UL LISTING, GRAVITY OPERATED BACKDRAFT DAMPER, AND BIRDSCREEN. 7. SWITCH WITH LIGHTS. FIELD VERIFY EXISTING ROOF CURB DIMENSIONS AND PROVIDE CURB ADAPTER AS

6. PROVIDE WITH VARI-GREEN CONSTANT PRESSURE CONTROL WITH REMOTE TRANSDUCER, ROOM STATIC PROBE, OUTDOOR STATIC PROBE, AND DIAL FOR BALANCING.

SPLIT SYSTEM HEAT PUMPS AND VRF FAN COILS:

ON ROOM SETPOINT.

SPLIT SYSTEM AIR CONDITIONER:

DISTRICT REPRESENTATIVE FOR IP ADDRESS AND NETWORK SETTINGS.

PROVIDE WITH PELICAN WIRELESS PM5-120 POWER CONTROL MODULE. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.

NOTE: MECHANICAL CONTRACTOR TO PROVIDE OCCUPANCY SENSORS FOR VACANCY CONTROL. OCCUPANCY SENSORS SHALL BE LOCATED TO PROVIDE TOTAL AREA COVERAGE OF ENTIRE SPACE.

1. FAN COIL SHALL BE CONTROLLED BY PELICAN WIRELESS THERMOSTAT. COORDINATE WITH DISTRICT REPRESENTATIVE FOR NETWORK SETTINGS. 2. PELICAN WIRELESS THERMOSTAT SHALL BE CONNECTED TO (E) WIRELESS GATEWAY ON CAMPUS. COORDINATE WITH DISTRICT REPRESENTATIVE FOR IP ADDRESS AND NETWORK SETTINGS.

1. EACH FAN COIL SHALL BE CONTROLLED BY PELICAN WIRELESS THERMOSTAT. COORDINATE WITH DISTRICT

2. PELICAN WIRELESS THERMOSTAT SHALL BE CONNECTED TO (E) WIRELESS GATEWAY ON CAMPUS. COORDINATE WITH

3. HEAT PUMP/FAN COIL SHALL OPERATE UNDER ITS OWN INTERNAL SEQUENCE TO PROVIDE HEATING OR COOLING BASED

REPRESENTATIVE FOR NETWORK SETTINGS, OCCUPANCY SCHEDULES, SETPOINTS, SETBACK, ETC.

- 3. HEAT PUMP/FAN COIL SHALL OPERATE UNDER ITS OWN INTERNAL SEQUENCE TO PROVIDE COOLING BASED ON ROOM SETPOINT.
- 4. UNIT SHALL BE SET TO 24/7 COOLING ONLY MODE TO MAINTAIN SPACE TEMPERATURE BELOW 75°F.
- CEILING EXHAUST FANS (EF-3, 4, 7):
- 1. EACH EXHAUST FAN SHALL BE INTERLOCKED WITH ROOM LIGHT SWITCH / OCCUPANCY SENSOR.

INLINE EXHAUST FANS (EF-1, 2, 5, 6): 1. EACH EXHAUST FAN SHALL BE CONTROLLED BY PELICAN WIRELESS POWER CONTORL MODULE.

- 2. FAN SHALL RUN CONTINUOUSLY DURING SCHEDULED OCCUPANCY HOURS. OCCUPANCY SCHEDULE SHALL BE SAME AS DOAS UNIT OCCUPANCY SCHEDULE.

					DE	EDICATE	OUTSID	E AIR SY	STEMS S	CHEDU	LE								
			COOLING MBH		GAS HEA	GAS HEATING MBH		ESP	OUTSIDE	FAN	MOTOR	IEER	AFUE	ELECTRICAL			WEIGHT	MOUNTING	
G	MANUFACTURER	MODEL NO.	TOTAL	SENSIBLE	INPUT	OUTPUT	CFM	IN. W.G.	AIR CFM	/ RPM	HP		%	V / PH	MCA	MOCP	LBS	DETAIL	
S-1	CAPTIVEAIRE	CASRTU1-I.125-18-5T-DOAS	58.2	37.9	125	100	1240	1.5	1240	1449	1.5	17.9	80	460 / 3	13	15	1440	2/MP6.1	1
S-2	CAPTIVEAIRE	CASRTU2-I.250-18-10T-DOAS	114.9	75.3	250	200	2500	1.5	2500	1771	3.0	18.6	80	460 / 3	29.7	30	2285	2/MP6.1	1
PROVII	ROVIDE WITH HINGED ACCESS PANELS, HAIL GUARDS, AND POWERED CONVENIENCE OUTLET. 4. PROVIDE WITH DOWN DISCHARGE AND PROVENT PLENUM CURB WITH SIDE DISCHARGE, SEE MP7.1.																		

EIGHT INCLUDES ALL OPTIONS AND ACCESSORIES. 3. PROVIDE WITH 2" THICK, MERV 13 FILTERS.

I SIDE DISCHARGE, SEE IVIP PROVIDE WITH PELICAN WIRELESS TS250 THERMOSTAT. 6. PROVIDE WITH DUCT SMOKE DETECTOR AND SHUTDOWN PER CMC 608.1. WIRING BY FIRE ALARM CONTRACTOR.

### PACKAGED AIR CONDITIONING UNITS SCHEDULE

	MODEL NO. DISCHA	DISCHARGE		COOLING MBH		GAS HEATING MBH		AIRFLOW CFM	ESP IN. W.G.	OUTSIDE AIR CFM	FAN RPM	MOTOR BHP	IEER	AFUE	ELECTRICAL			WEIGHT	MOUNTING	
ORIENTATION	AREA SERVED	TOTAL	SENSIBLE	INPUT	OUTPUT	%	V / PH							MCA	MOCP	LBS	DETAIL	AIL		
	48A9T035	HORIZONTAL	NORTH GYM 114	410	336.2	800	648	14,000	2.2	4510	1103	14.57	13.4	81	460 / 3	95	110	5400	1/MP6.1	1,
	48A9T035	HORIZONTAL	SOUTH GYM 136	410	336.2	800	648	14,000	2.2	4525	1103	14.57	13.4	81	460 / 3	95	110	5400	1/MP6.1	1,

PROVIDE WITH PELICAN TS250 THERMOSTAT AND PRX1 PROXIMITY SENSOR. PROVIDE WITH PELICAN PEARL ECONOMIZER CONTROLLER. PROVIDE WITH DUCT SMOKE DETECTOR AND SHUTDOWN PER CMC 608.1. WIRING BY FIRE ALARM CONTRACTOR.

7. PROVIDE WITH MICROMETL STRUCTURALLY CALCULATED CURB.

	VRF OUTDOOR UNIT HEAT PUMP SCHEDULE														
т	AG	MANUFACTURER	MODEL NO.	NOMINAL CA	PACITY, MBH	REFRIGER	SEER	HSPF	E	LECTRICA	WEIGHT	MOUN			
	40		MODEL NO.	COOLING	HEATING	LIQUID	GAS	SEER		V / PH	MCA	MOCP	LBS D	DET	
HF	P-1	SAMSUNG	AM060NXMDCR/AA	60	66	3/8"	3/4" SUCTION 5/8" HP GAS	20.6	11.5	208 / 1	32	50	280	3/MF	

1. VERIFY REFRIGERANT PIPE SIZES AND ROUTING LIMITATIONS WITH MANUFACTURER PRIOR TO INSTALLATION. 2. PROVIDE WITH OUTDOOR REFRIGERANT TEE MXJ-TA3819M.

5

6

. Г												
				١	/RF BRANCH CO	NTROLLER SC	HEDULE					
Γ	TAG	MANUFACTURER	MODEL NO.	REFRIG PIPING TO	ODU / OTHER MCUs	Us REFRIG PIPING TO INDOOR UNITS ELECTRICAL WEIG		ELECTRICAL		WEIGHT	MOUNTING	
	TAG	WAND ACTORER	WODEL NO.	LIQUID	GAS	LIQUID	GAS	V / PH	MCA	MOCP	LBS	DETAIL
	BC-1	SAMSUNG	MCU-R4NEK0N	3/8"	3/4" SUCTION 5/8" HP GAS	1/4"	1/2"	208 / 1	2	15	50	6/MP6.1
_												

1. VERIFY REFRIGERANT PIPE SIZES AND ROUTING LIMITATIONS WITH MANUFACTURER PRIOR TO INSTALLATION. 2. PROVIDE WITH BALL VALVES AT EACH PORT.

	VRF INDOOR FAN COIL UNITS SCHEDULE												
				VRF IND	DOR FAN	COIL UNI	TS SCHEE	DULE					
ТАС				COOLING	HEATING	AIRFLOW	REFRIGER	ANT PIPING	E	LECTRIC	AL.	WEIGUT	MOUNTING
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	MBH	MBH	CFM	LIQUID	GAS	V / PH	MCA	MOCP	WEIGHT	DETAIL
FC-1	SAMSUNG	AM009NNNDCH/AA	COACH OFFICE 128	9.5	10.5	353	1/4"	1/2"	208 / 1	0.24	15	30	5/MP6.1
FC-2	SAMSUNG	AM009NNNDCH/AA	COACH OFFICE 123	9.5	10.5	353	1/4"	1/2"	208 / 1	0.24	15	30	5/MP6.1
FC-3	SAMSUNG	AM018NNNDCH/AA	CLASSROOM 126	18	20	459	1/4"	1/2"	208 / 1	0.38	15	30	5/MP6.1
FC-4	SAMSUNG	AM018NNNDCH/AA	CLASSROOM 126	20	23	459	1/4"	1/2"	208 / 1	0.41	15	30	5/MP6.1
			l	I	1			1					1

1. VERIFY REFRIGERANT PIPE SIZES AND ROUTING LIMITATIONS WITH MANUFACTURER PRIOR TO INSTALLATION. . PROVIDE WITH SAMSUNG MIM-A60UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER. 3. PROVIDE WITH PELICAN TS250 THERMOSTAT.

				SF	PLIT SYSTE	M HEAT F	PUMPS SC	HEDULE										
				COOLING	HEATING	AIRFLOW		REFRIGERANT PIPING		REFRIGERANT PIPING		0===		E	LECTRIC/	AL.	WEIGHT	MOUNTING
TAG	MANUFACTURER	MODEL	LOCATION	TOTAL MBH	TOTAL MBH	CFM	LIQUID	GAS	SEER	HSPF	V / PH	MCA	CA MOCP	LBS	DETAIL			
SSO-1	SAMSUNG	AR12TSFABWKXCV	EQUIP AREA OUTSIDE ELEC 138	- 12	12	_	1/4"	3/8"	23	12.5	208 / 1	12.5	20	75	3/MP6.1			
SSI-1	SAMSUNG	AR12TSFABWKNCV	OFFICE 109		12	427	1/4"	3/8"	_	_		NOTE 1		25	4/MP6.1			

1. INDOOR UNIT POWERED BY OUTDOOR UNIT. 2. PROVIDE WITH WALL MOUNTING BRACKET. 3. PROVIDE WITH SAMSUNG MIM-A60UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER. 4. PROVIDE WITH PELICAN TS250 THERMOSTAT. 5. PROVIDE WITH CONDENSATE PUMP.

SPLIT SYSTEM AIR CONDITIONERS SCHEDULE

																-
	<b>T</b> 10		MODEL		COOLING	HEATING	AIRFLOW	REFRIGER	ANT PIPING	0	El	LECTRICA	L	WEIGHT	MOUNTING	
	TAG	MANUFACTURER	MODEL	LOCATION	TOTAL MBH	TOTAL MBH	CFM	LIQUID	GAS	SEER	V / PH	MCA	MOCP	LBS	DETAIL	
	SSO-2	SAMSUNG	AR24TSFYBWKXCV	EQUIP AREA OUTSIDE ELEC 134		NOTE 1	-	1/4"	5/8"	18	208 / 1	20	30	125	3/MP6.1	
	SSI-2	SAMSUNG	AR24TSFYBWKNCV	ELEC 134	- 22	NOTET	657	1/4"	5/8"	Ι		NOTE 2		30	4/MP6.1	3, 4, 5, 6
-																

1. LOCKOUT HEATING MODE. 2. INDOOR UNIT POWERED BY OUTDOOR UNIT.

3. PROVIDE WITH WALL MOUNTING BRACKET. 4. PROVIDE WITH SAMSUNG MIM-A60UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER.

	GAS PRESSURE REGULATORS SCHEDULE									
TAG	MANUFACTURER	MODEL NO.	MIN. CAPACITY CFH	INLET PRESSURE	OUTLET PRESSURE	ORIFICE SIZE	VENT SIZE	PIPE SIZE	SPRING NUMBER	
GPR-1	AMERICAN METER	1800 SERIES	1050	3 PSI	7" WC	1/2"	2"	2"	71424P01	

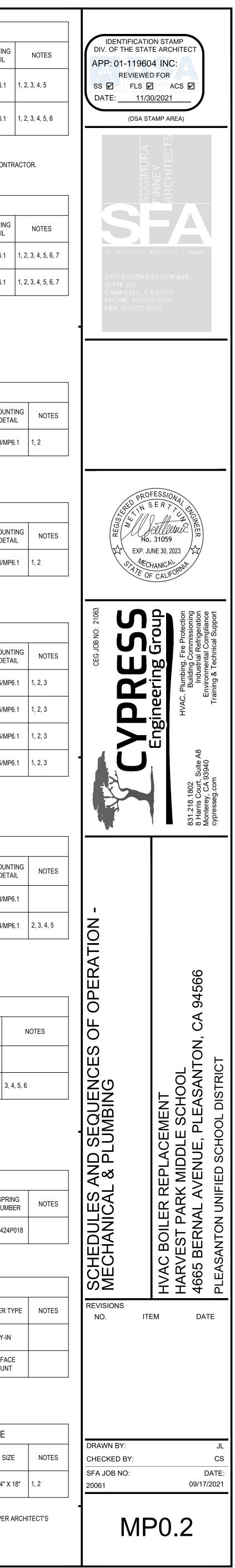
5. PROVIDE WITH PELICAN TS250 THERMOSTAT.

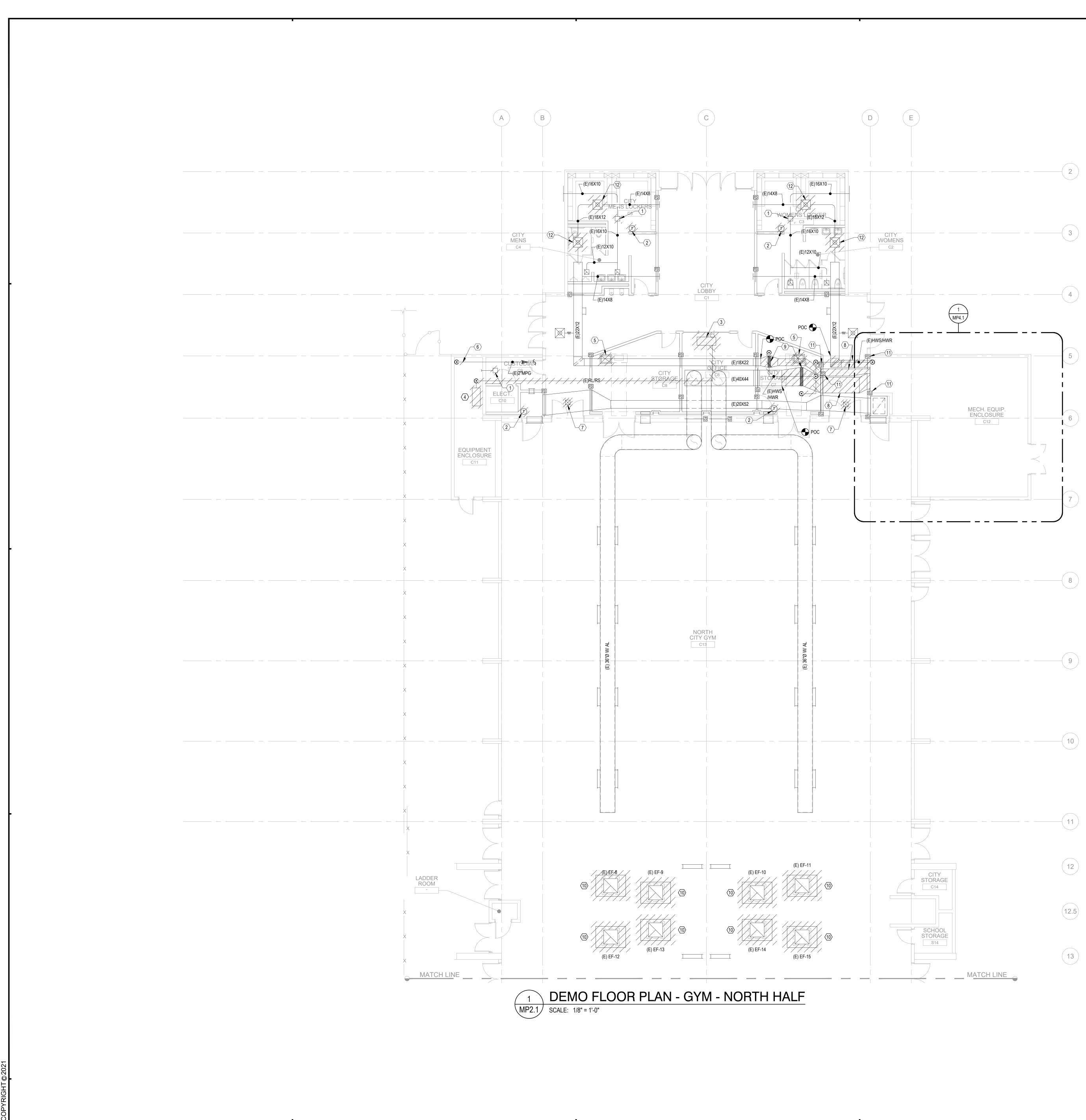
6. PROVIDE WITH CONDENSATE PUMP.

	А	IR DISTRIBUTI	ON SCHEDULE		
TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	BORDER TYPE	
CD-1	TITUS	MCD	CEILING DIFFUSER	LAY-IN	
EG-1	TITUS	50R	EXHAUST GRILLE	SURFACE MOUNT	

	DOOR LO	UVER SCHED	DULE					
TAG	MANUFACTURER	MODEL NO.	SIZE					
DL-1	TITUS	T-700L	24" X 18					
1. BORDER TYPE 1, SURFACE MOUNT.								

PRIME AND PAINT TO MATCH DOOR COLOR OR PER ARCHITECT'S INSTRUCTIONS.



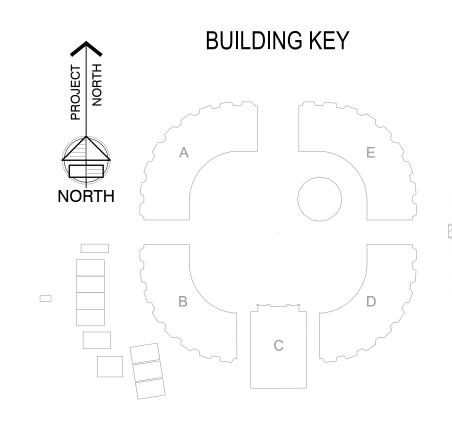




- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- 2. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER SERVICES TO AVOID CONFLICT.
- 3. ALL (E) FIRE DAMPERS TO REMAIN UNLESS OTHERWISE NOTED.
- 4. ALL (E) DUCTWORK AND REGISTERS TO REMAIN UNLESS OTHERWISE NOTED.
- 5. SEE ARCHITECT'S DRAWINGS FOR CEILING ACCESS PANELS.

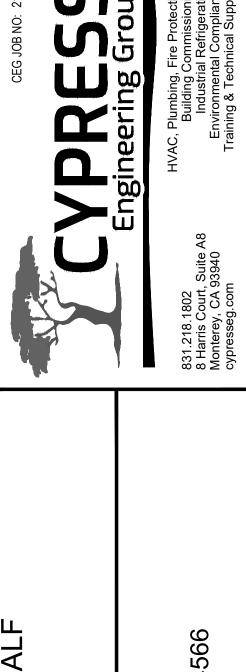
### (#) DEMOLITION SHEET NOTES

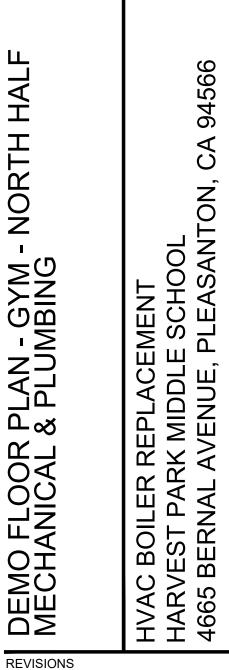
- 1. REMOVE (E) EXHAUST FAN, TYPICAL. PROTECT (E) DUCT OPENINGS FOR CONNECTION TO NEW.
- 2. REMOVE (E) THERMOSTAT AND CONTROL WIRING, TYPICAL.
- 3. REMOVE (E) FAN COIL AND REFRIGERANT PIPING. PROTECT (E) CD PIPE FOR CONNECTION TO NEW. 4. REMOVE (E) HEAT PUMP.
- 5. REMOVE (E) FLOOR MOUNTED SUPPLY FAN. (E) TRENCH BELOW AND COVER PLATE TO REMAIN. SEAL ANY FLOOR OPENINGS PER ARCHITECT'S DIRECTIONS.
- 6. REMOVE PORTION OF GAS PIPING AT RISER FOR NEW SHUT-OFF VALVE. SEE 1/MP2.3.
- 7. REMOVE (E) RETURN REGISTER. CAP (E) DUCT ABOVE CEILING. PATCH CEILING PER ARCHITECT'S DIRECTION.
- 8. REMOVE (E) SUPPLY DUCTWORK ABOVE CEILING. PROTECT (E) DUCT OPENINGS AT POC FOR CONNECTION TO NEW.
- 9. REMOVE (E) HOT WATER COIL AND (E) HWS & HWR PIPING AND SUPPORTS COMPLETE, TYPICAL.
- 10. REMOVE (E) EXHAUST FAN ON ROOF, TYPICAL. (E) ROOF CURB TO REMAIN. PROTECT (E) DUCT OPENING FOR CONNECTION TO NEW.
- 11. REMOVE (E) FIRE DAMPER.
- 12. REMOVE (E) SUPPLY REGISTER. CAP (E) DUCT ABOVE CEILING. PATCH CEILING PER ARCHITECT'S DIRECTIONS.







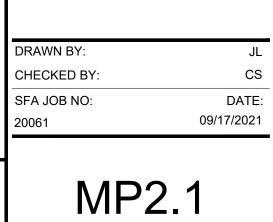




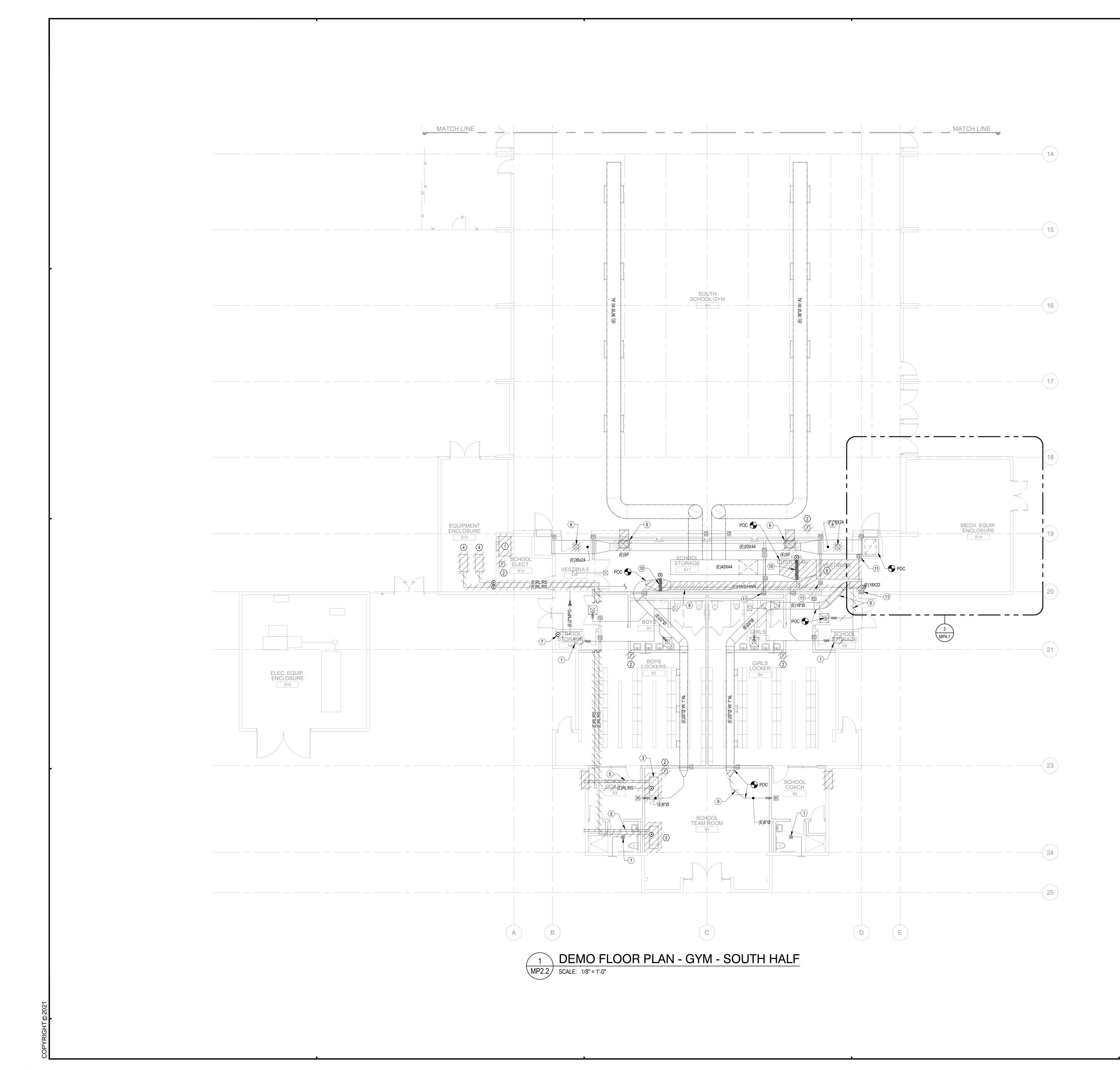
DATE

ITEM

NO.





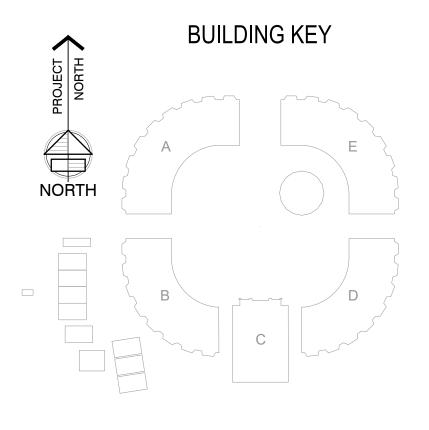


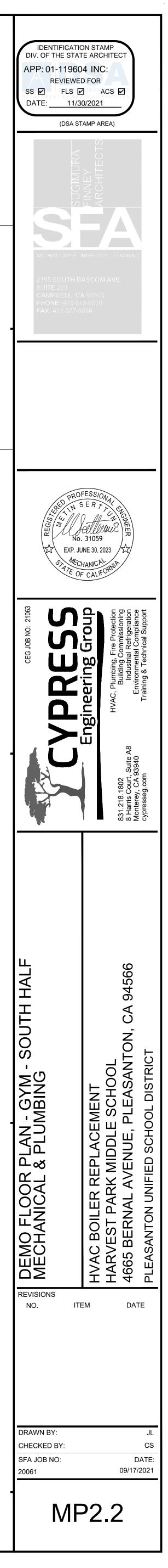


- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- 2. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER SERVICES TO AVOID CONFLICT.
- 3. ALL (E) FIRE DAMPERS TO REMAIN UNLESS OTHERWISE NOTED.
- 4. ALL (E) DUCTWORK AND REGISTERS TO REMAIN UNLESS OTHERWISE NOTED.
- 5. SEE ARCHITECT'S DRAWINGS FOR CEILING ACCESS PANELS.

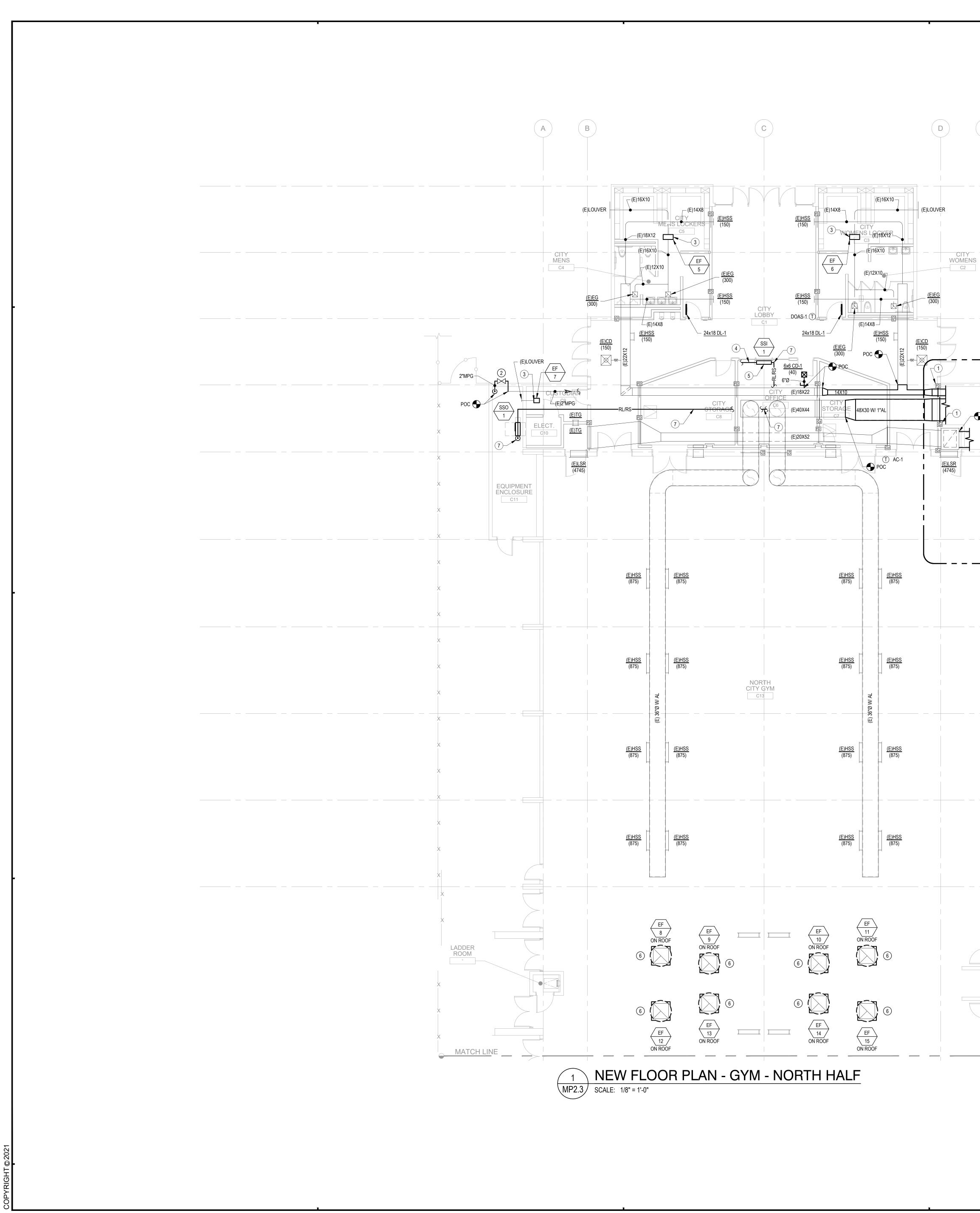
### (#) DEMOLITION SHEET NOTES

- 1. REMOVE (E) EXHAUST FAN, TYPICAL. PROTECT (E) DUCT OPENINGS FOR CONNECTION TO NEW.
- 2. REMOVE (E) THERMOSTAT AND CONTROL WIRING, TYPICAL.
- 3. REMOVE (E) FAN COIL AND REFRIGERANT PIPING, TYPICAL. PROTECT (E) CD PIPE FOR CONNECTION TO NEW. 4. REMOVE (E) HEAT PUMP, TYPICAL.
- 5. REMOVE (E) OUTSIDE AIR DUCT ABOVE CEILING. (E) LOUVER TO REMAIN.
- 6. REMOVE (E) FLOOR MOUNTED SUPPLY FAN. (E) TRENCH BELOW AND COVER PLATE TO REMAIN. SEAL ANY FLOOR OPENINGS PER ARCHITECT'S DIRECTIONS.
- 7. REMOVE PORTION OF GAS PIPING AT RISER FOR NEW SHUT-OFF VALVE. SEE 1/MP2.4.
- 8. REMOVE (E) RETURN REGISTER. CAP (E) DUCT ABOVE CEILING. PATCH CEILING PER ARCHITECT'S DIRECTION.
- 9. REMOVE (E) SUPPLY DUCTWORK ABOVE CEILING. PROTECT (E) DUCT OPENINGS AT POC FOR CONNECTION TO NEW.
- 10. REMOVE (E) HOT WATER COIL AND (E) HWS & HWR PIPING AND SUPPORTS COMPLETE, TYPICAL.
- 11. REMOVE (E) FIRE DAMPER.

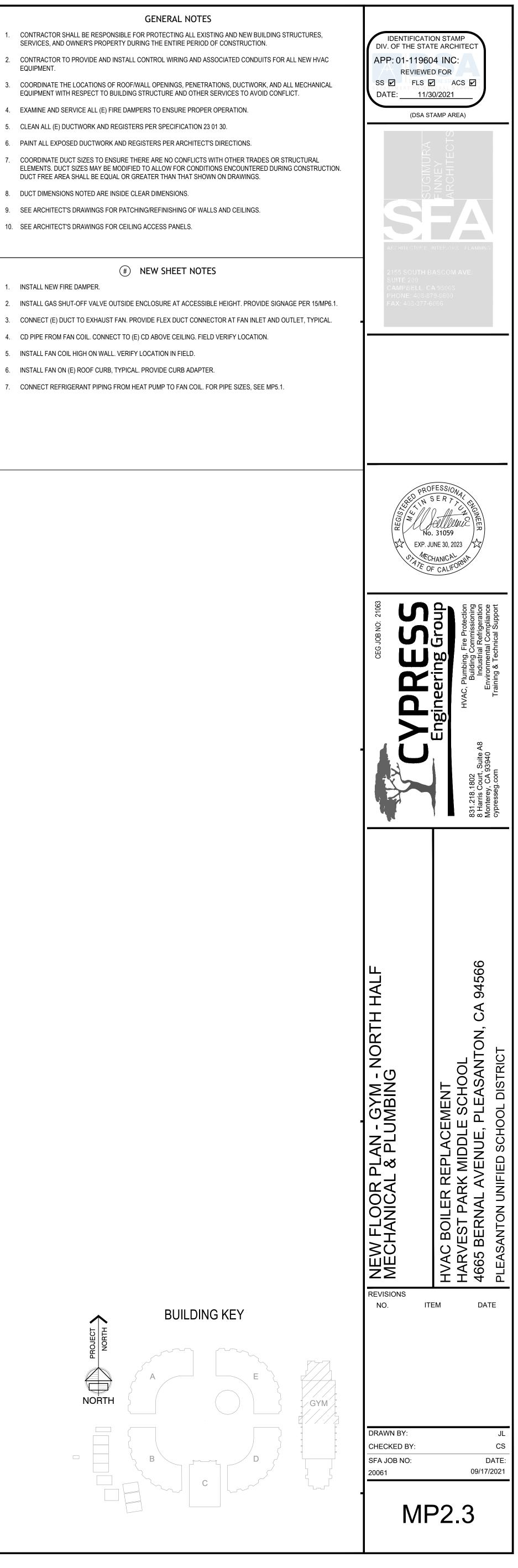




GYM 





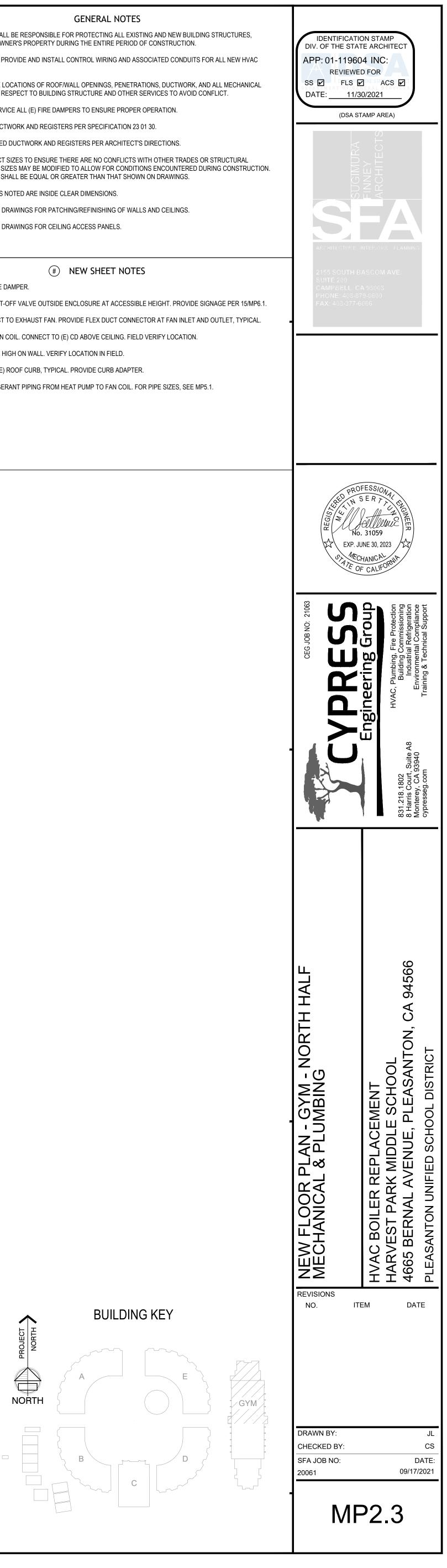


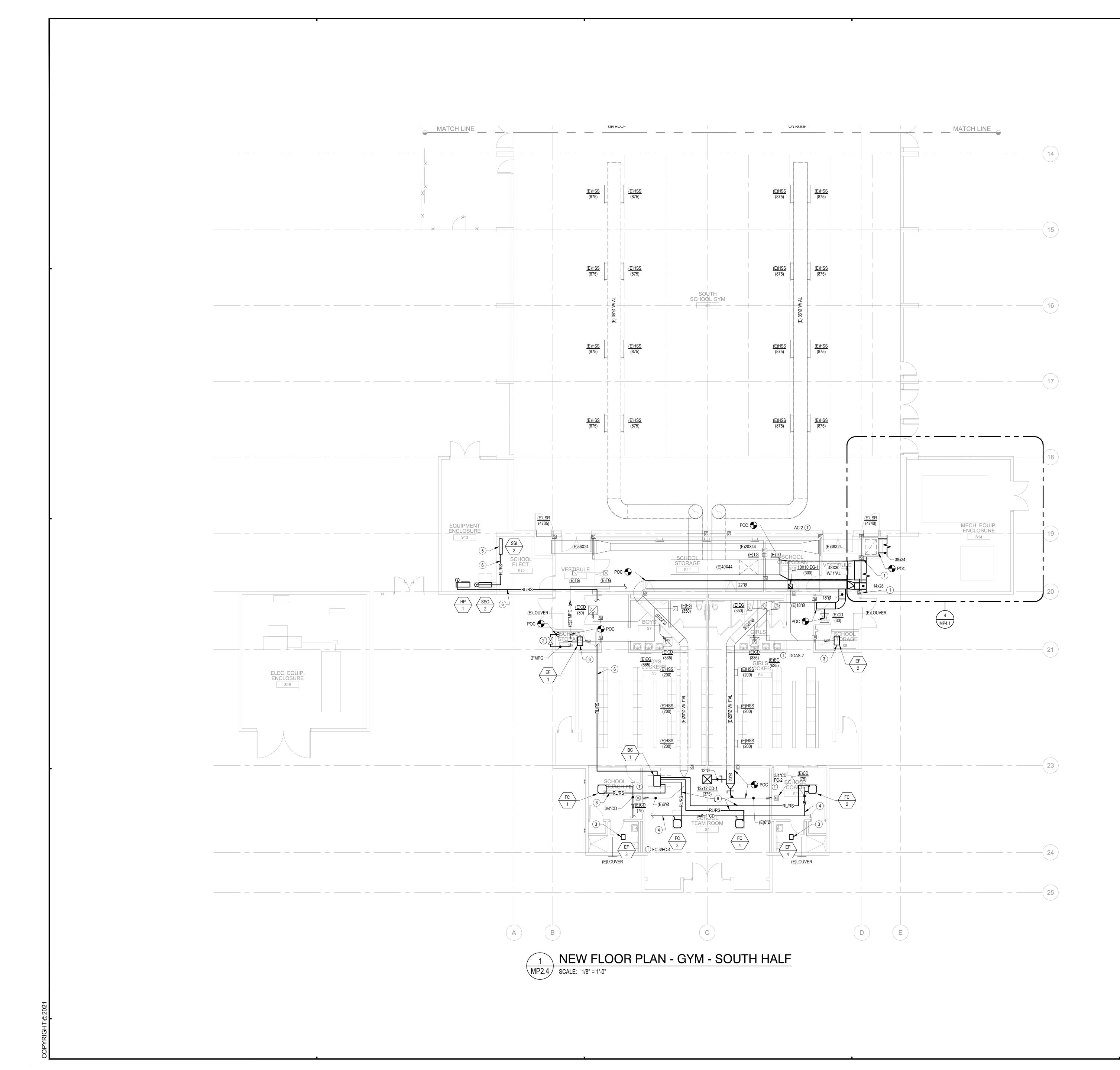
- EQUIPMENT.
- EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER SERVICES TO AVOID CONFLICT.
- 4. EXAMINE AND SERVICE ALL (E) FIRE DAMPERS TO ENSURE PROPER OPERATION.
- 5. CLEAN ALL (E) DUCTWORK AND REGISTERS PER SPECIFICATION 23 01 30.
- 6. PAINT ALL EXPOSED DUCTWORK AND REGISTERS PER ARCHITECT'S DIRECTIONS.
- 8. DUCT DIMENSIONS NOTED ARE INSIDE CLEAR DIMENSIONS.
- 9. SEE ARCHITECT'S DRAWINGS FOR PATCHING/REFINISHING OF WALLS AND CEILINGS.
- 10. SEE ARCHITECT'S DRAWINGS FOR CEILING ACCESS PANELS.

- 1. INSTALL NEW FIRE DAMPER.

- 7. CONNECT REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL. FOR PIPE SIZES, SEE MP5.1.

( 2 - 3 -( 4 MP4.1 MECH. EQUIP. ENCLOSURE C12 8 - 10 - 11 12 CITY STORAGE C14 12.5 SCHOOL STORAGE S14 13  $\leftarrow$  –



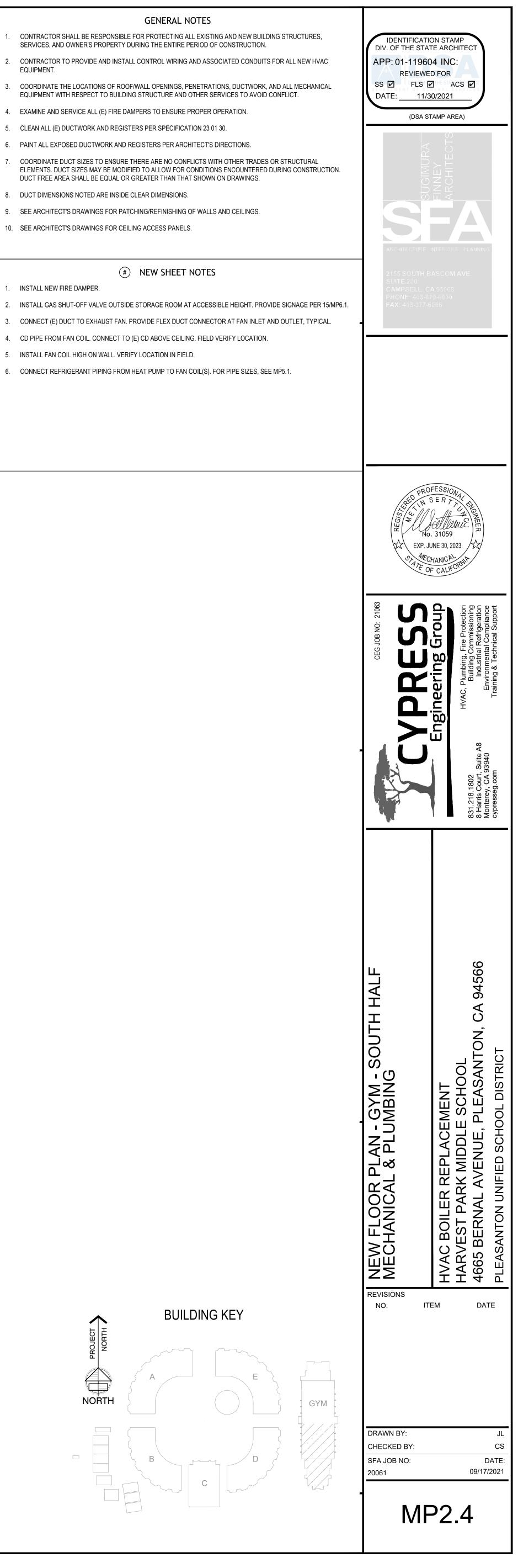


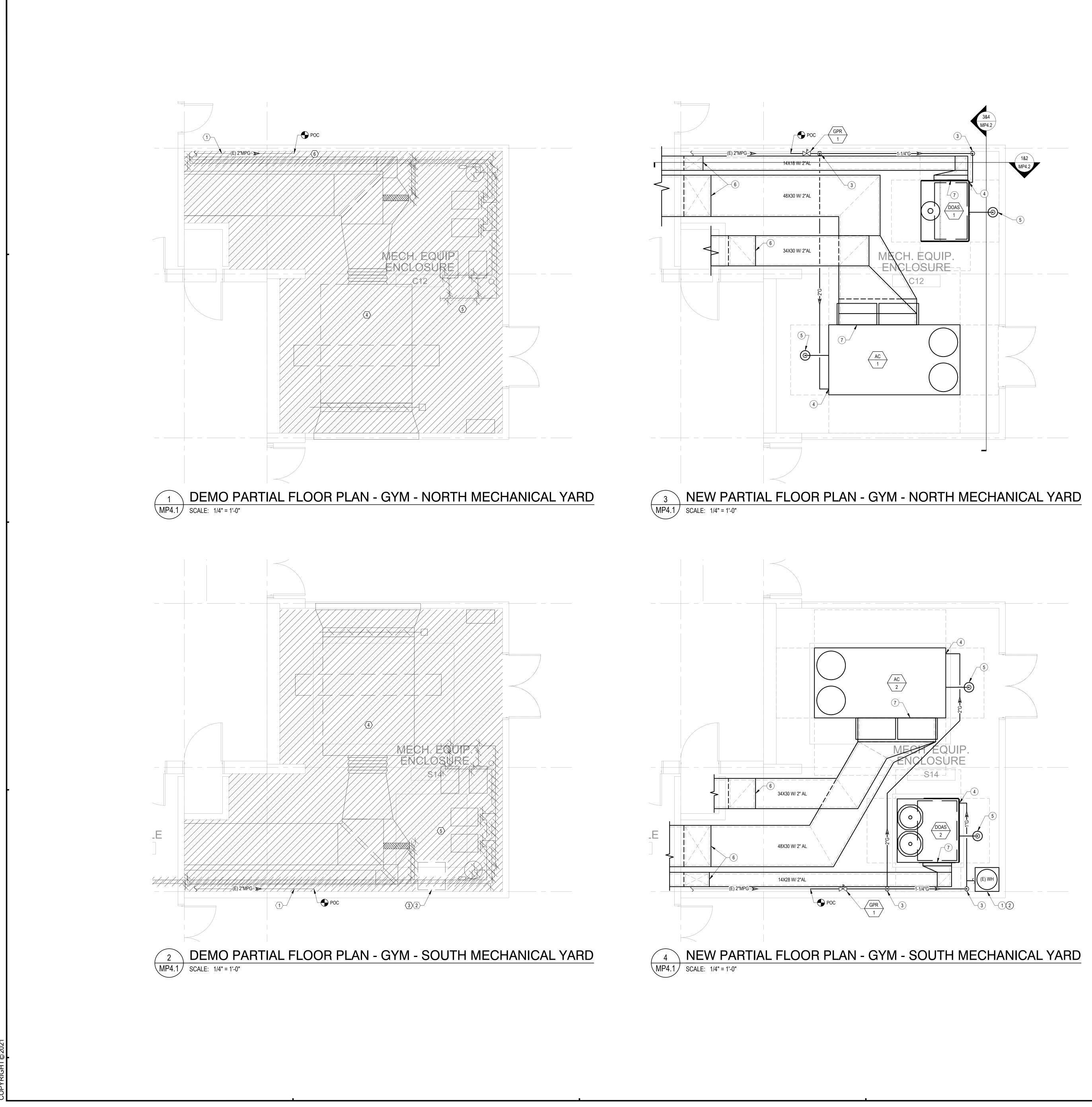
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES,
- 3. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, AND ALL MECHANICAL
- 4. EXAMINE AND SERVICE ALL (E) FIRE DAMPERS TO ENSURE PROPER OPERATION.
- 5. CLEAN ALL (E) DUCTWORK AND REGISTERS PER SPECIFICATION 23 01 30.
- 6. PAINT ALL EXPOSED DUCTWORK AND REGISTERS PER ARCHITECT'S DIRECTIONS.
- 7. COORDINATE DUCT SIZES TO ENSURE THERE ARE NO CONFLICTS WITH OTHER TRADES OR STRUCTURAL ELEMENTS. DUCT SIZES MAY BE MODIFIED TO ALLOW FOR CONDITIONS ENCOUNTERED DURING CONSTRUCTION. DUCT FREE AREA SHALL BE EQUAL OR GREATER THAN THAT SHOWN ON DRAWINGS.
- 8. DUCT DIMENSIONS NOTED ARE INSIDE CLEAR DIMENSIONS.
- 9. SEE ARCHITECT'S DRAWINGS FOR PATCHING/REFINISHING OF WALLS AND CEILINGS.
- 10. SEE ARCHITECT'S DRAWINGS FOR CEILING ACCESS PANELS.

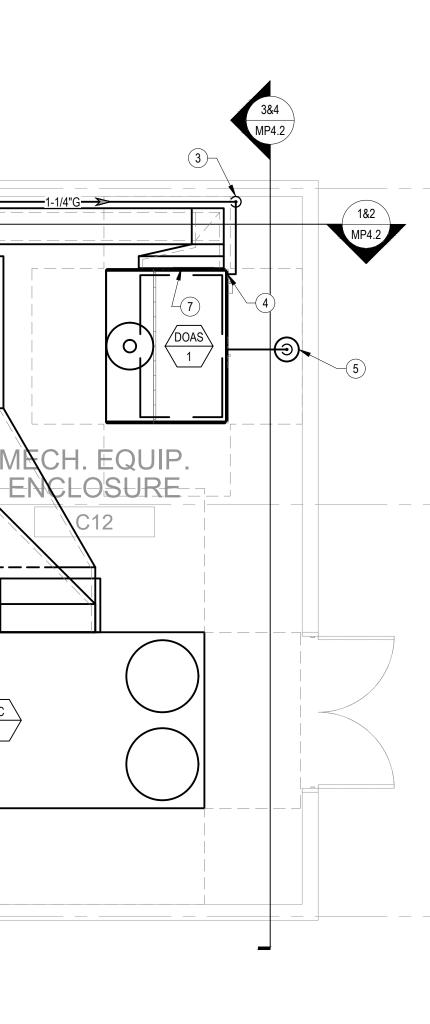
1. INSTALL NEW FIRE DAMPER.

EQUIPMENT.

- 4. CD PIPE FROM FAN COIL. CONNECT TO (E) CD ABOVE CEILING. FIELD VERIFY LOCATION.
- 5. INSTALL FAN COIL HIGH ON WALL. VERIFY LOCATION IN FIELD.
- 6. CONNECT REFRIGERANT PIPING FROM HEAT PUMP TO FAN COIL(S). FOR PIPE SIZES, SEE MP5.1.

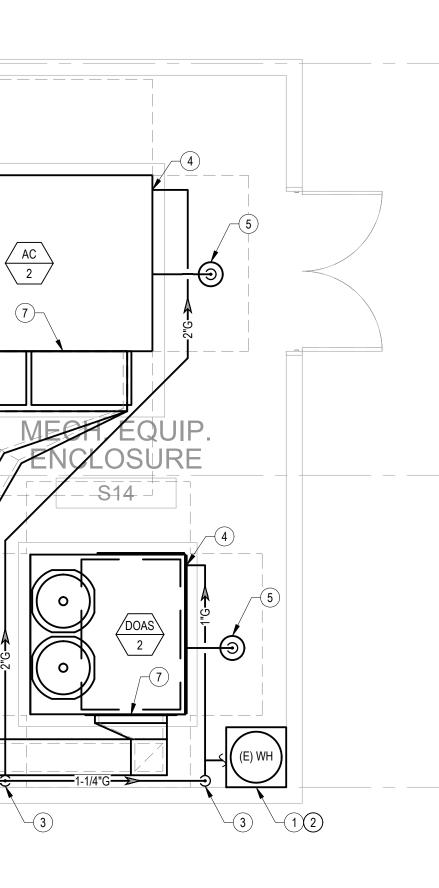


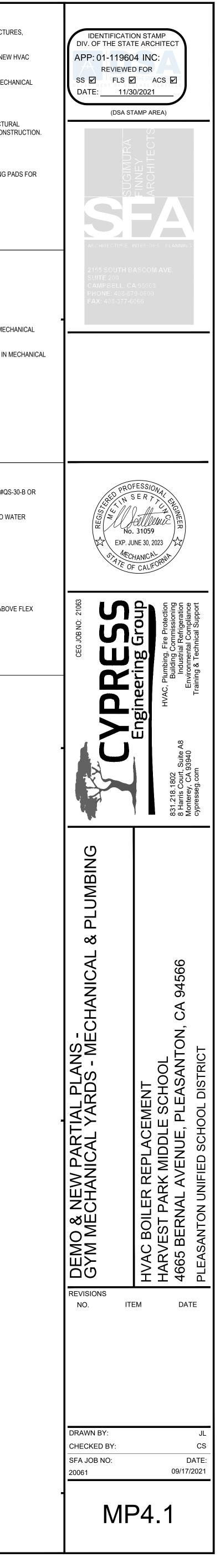


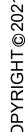


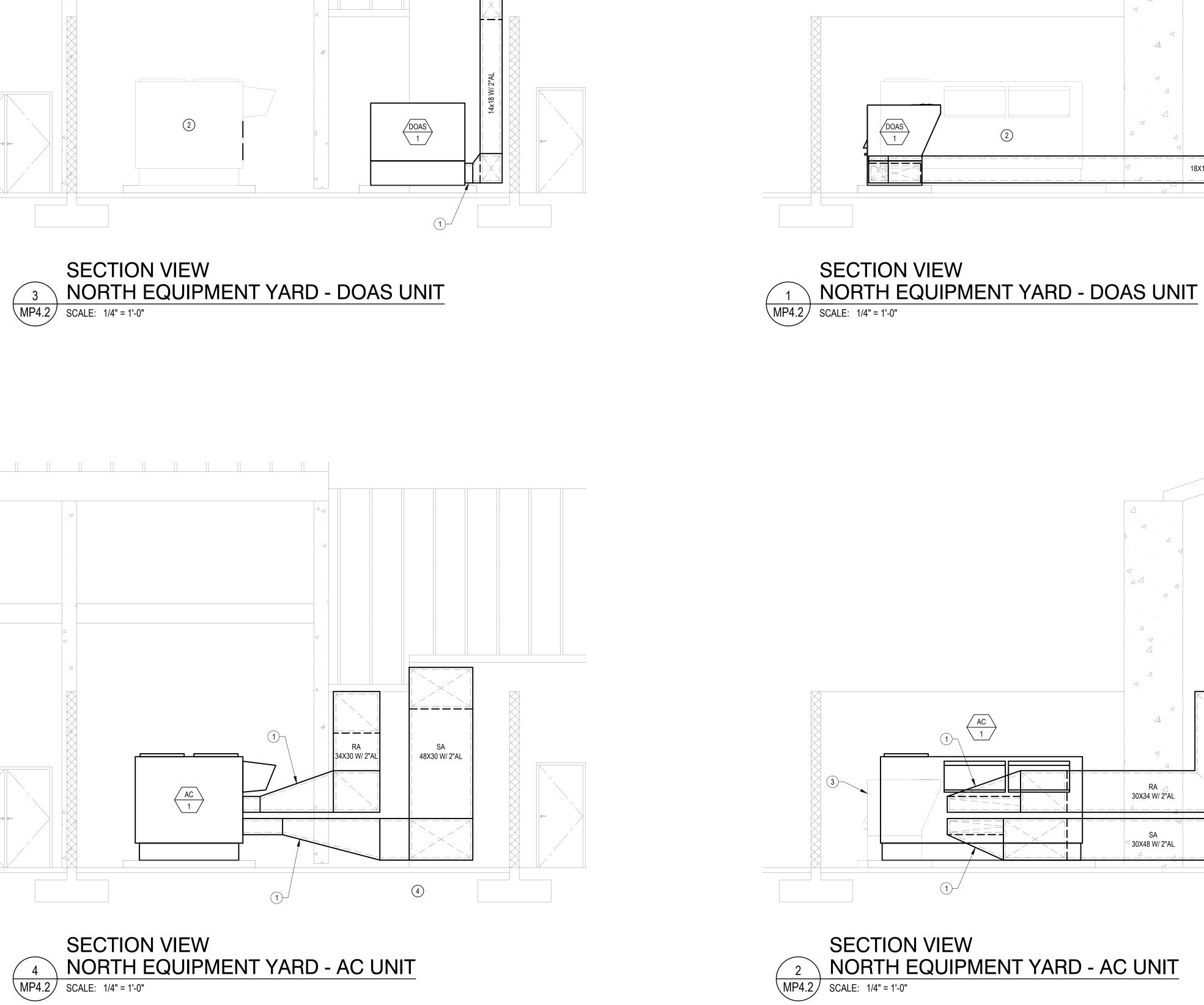
### CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. 2. CONTRACTOR TO PROVIDE AND INSTALL CONTROL WIRING AND ASSOCIATED CONDUITS FOR ALL NEW HVAC EQUIPMENT. 3. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER SERVICES TO AVOID CONFLICT. 4. PAINT ALL EXPOSED DUCTWORK AND REGISTERS PER ARCHITECT'S DIRECTIONS. 5. COORDINATE DUCT SIZES TO ENSURE THERE ARE NO CONFLICTS WITH OTHER TRADES OR STRUCTURAL ELEMENTS. DUCT SIZES MAY BE MODIFIED TO ALLOW FOR CONDITIONS ENCOUNTERED DURING CONSTRUCTION. DUCT FREE AREA SHALL BE EQUAL OR GREATER THAN THAT SHOWN ON DRAWINGS. 6. DUCT DIMENSIONS NOTED ARE INSIDE CLEAR DIMENSIONS. 7. SEE ARCHITECT'S DRAWINGS FOR REMOVAL OF (E) HOUSEKEEPING PADS AND NEW HOUSEKEEPING PADS FOR NEW EQUIPMENT. 8. FOR DUCT SUPPORTS IN MECHANICAL YARD, SEE 10MP6.1 AND 13/MP6.1. 9. PROVIDE TURNING VANES AT ALL DUCT TURNS. 10. FOR PIPE SUPPORTS IN MECHANICAL YARD, SEE 17/MP6.1 AND 18/MP6.1. (#) DEMOLITION SHEET NOTES 1. (E) GAS PIPING HIGH ON WALL TO REMAIN. 2. (E) WATER HEATER TO BE RELOCATED. SEE 4/MP4.1. 3. (E) DOMESTIC COLD WATER AND HOT WATER PIPING IN MECHANICAL YARD TO REMAIN. 4. REMOVE (E) AIR HANDLER AND ALL ASSOCIATED DUCTWORK, HEATING COILS, AND SUPPORTS IN MECHANICAL YARD. 5. REMOVE (E) BOILERS, PUMPS, AND ALL ASSOCIATED HEATING HOT WATER PIPING AND SUPPORTS IN MECHANICAL YARD. 6. REMOVE (E) GAS PIPING AND PRESSURE REGULATORS AT GRADE. (#) NEW SHEET NOTES RELOCATE (E) WATER HEATER. PROVIDE NEW SHEET METAL ENCLOSURE. HOLDRITE QUICK-SHED #QS-30-B OR SIMILAR. PROVIDE CONCRETE HOUSEKEEPING PAD PER ARCHITECT'S DRAWINGS, SEE 19/MP6.1. 2. EXTEND (E) DOMESTIC CW AND HW PIPING AND RECONNECT TO WATER HEATER. CONNECT GAS TO WATER HEATER. PERFORM STARTUP AND ENSURE PROPER OPERATION OF WATER HEATER. 3. DROP GAS PIPING DOWN AND ROUTE TO EQUIPMENT. 4. CONNECT GAS TO UNIT PER 12/MP6.1. 5. CONNECT CD TO UNIT PER 12/MP6.1 AND ROUTE TO DRYWELL, SEE 16/MP6.1. 6. RISE DUCT TIGHT TO WALL, TYPICAL. FOR DUCT SUPPORT AT WALL, SEE 14/MP6.1. INSTALL FLEX DUCT CONNECTOR AT CONNECTIONS TO UNIT. PROVIDE SHEET METAL RAIN HOOD ABOVE FLEX CONNECTOR, TYPICAL.

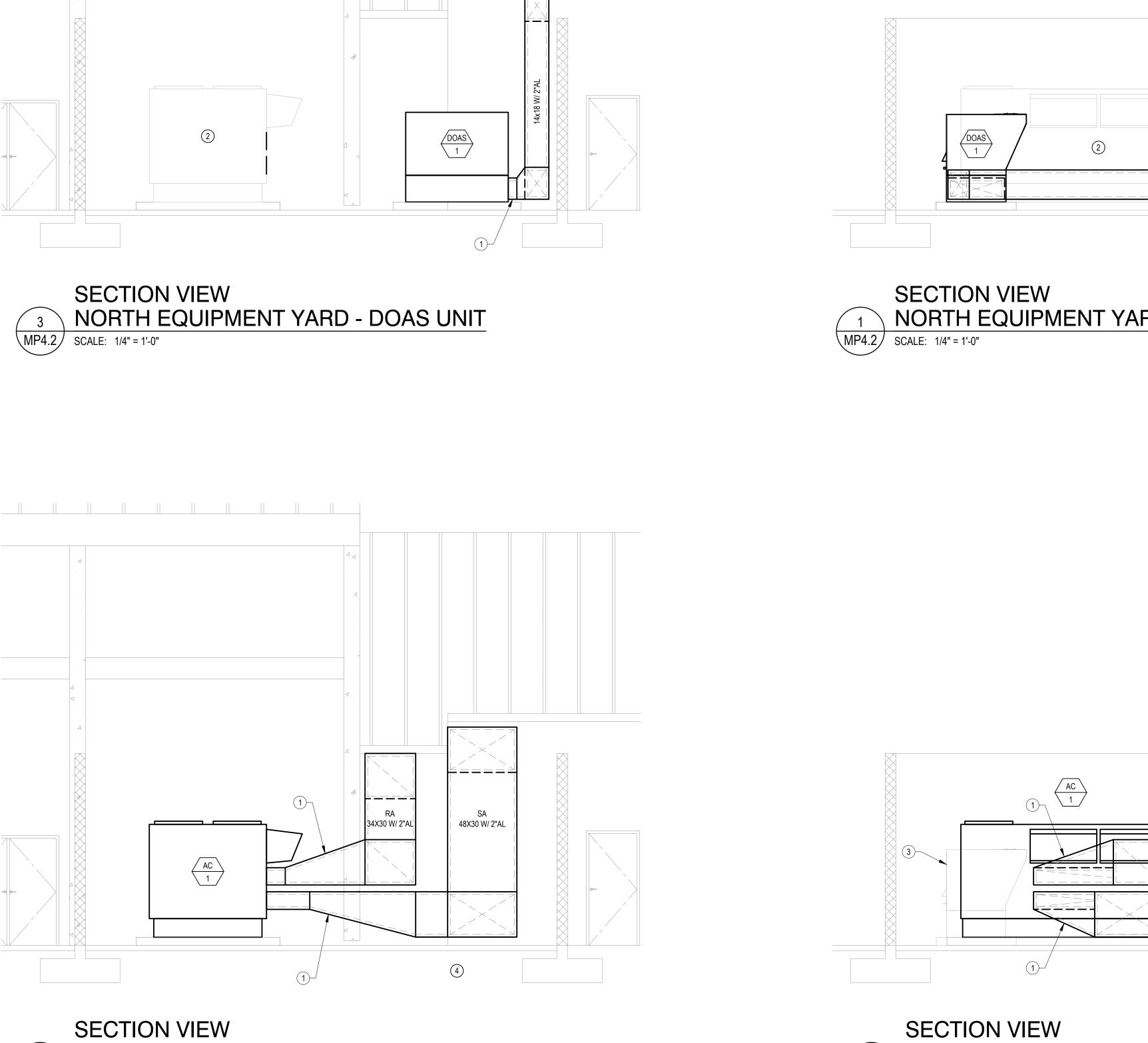
GENERAL NOTES

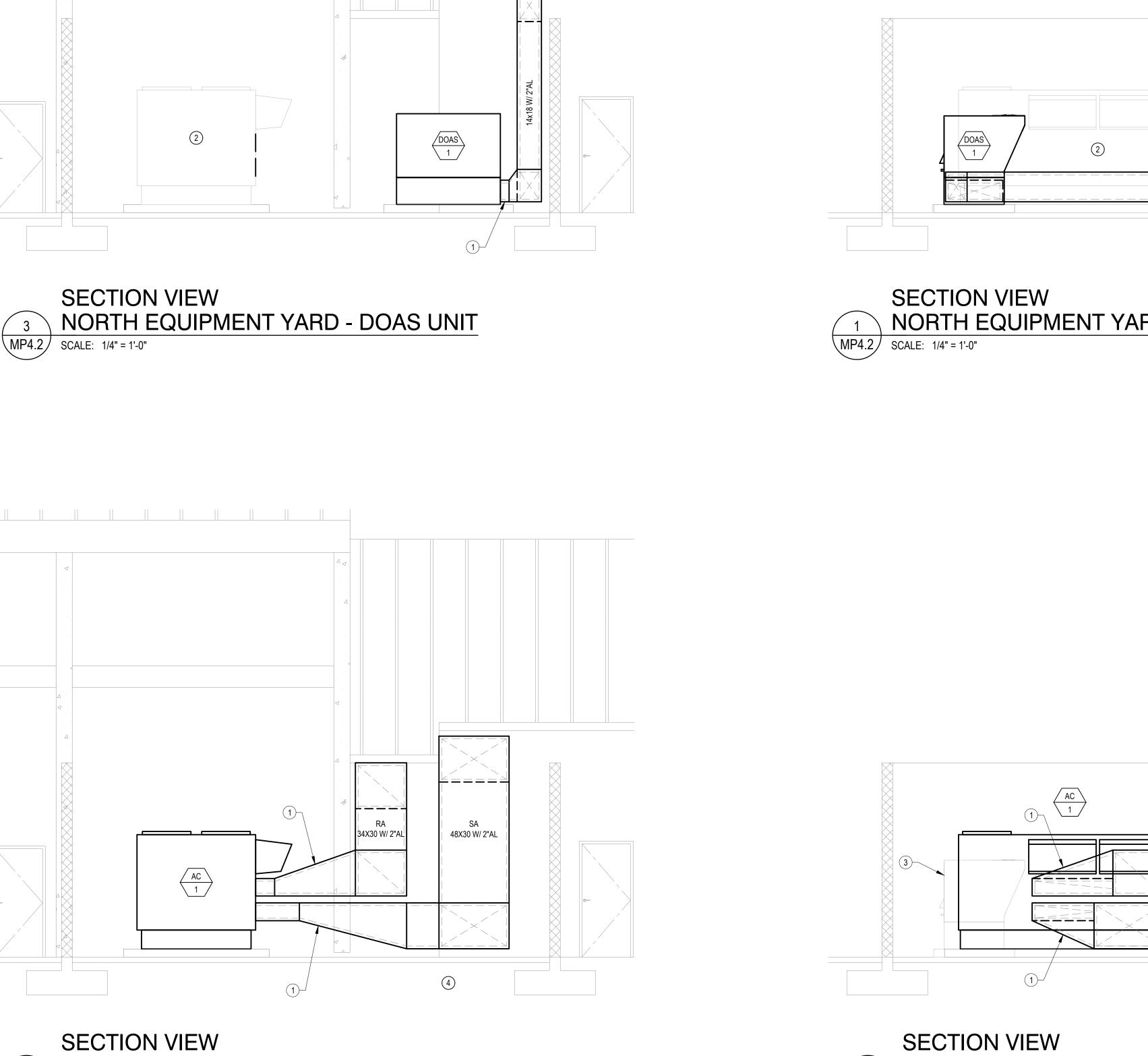


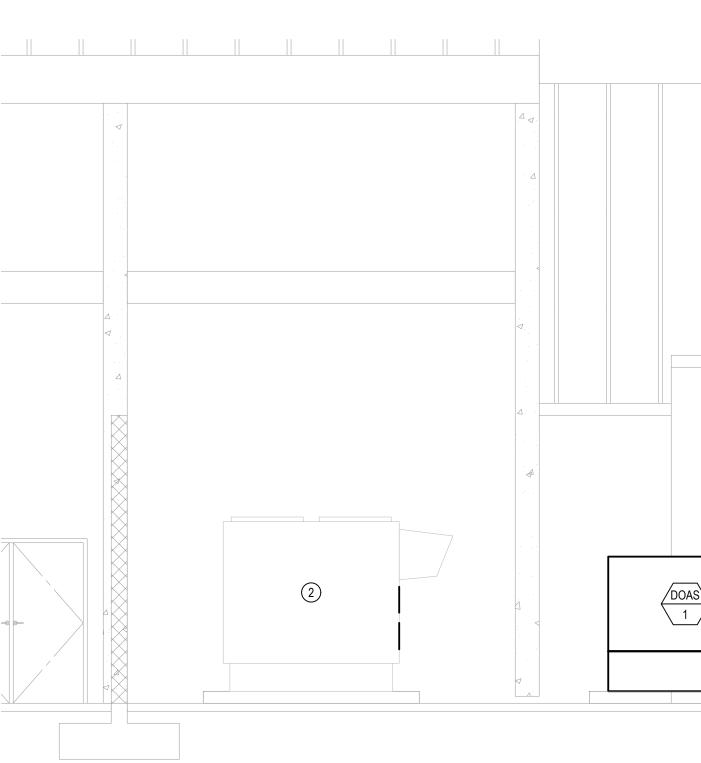










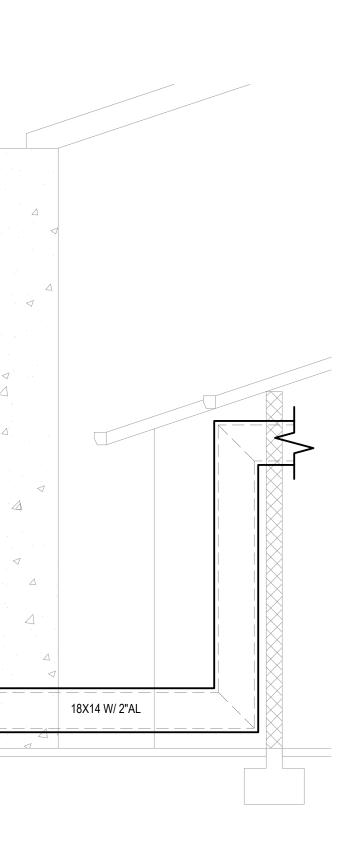


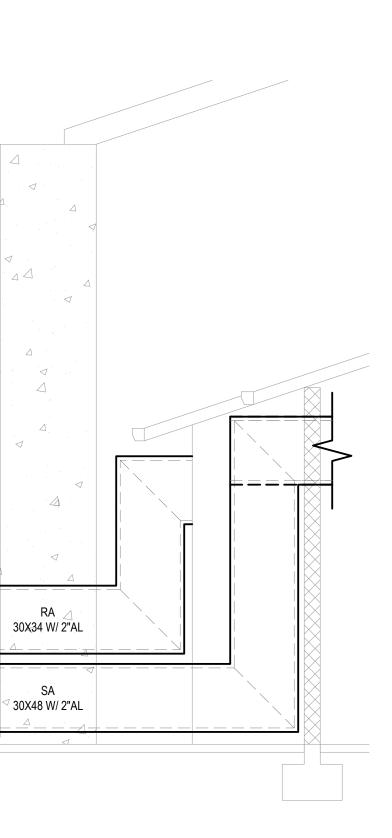
### GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES, AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- 2. COORDINATE THE LOCATIONS OF ROOF/WALL OPENINGS, PENETRATIONS, DUCTWORK, AND ALL MECHANICAL
- 3. COORDINATE DUCT SIZES TO ENSURE THERE ARE NO CONFLICTS WITH OTHER TRADES OR STRUCTURAL ELEMENTS. DUCT SIZES MAY BE MODIFIED TO ALLOW FOR CONDITIONS ENCOUNTERED DURING CONSTRUCTION. DUCT FREE AREA SHALL BE EQUAL OR GREATER THAN THAT SHOWN ON DRAWINGS.
- 4. DUCT DIMENSIONS NOTED ARE INSIDE CLEAR DIMENSIONS.
- 5. SECTIONS THROUGH SOUTH EQUIPMENT ENCLOSURE SIMILAR.

#### (#) NEW SHEET NOTES

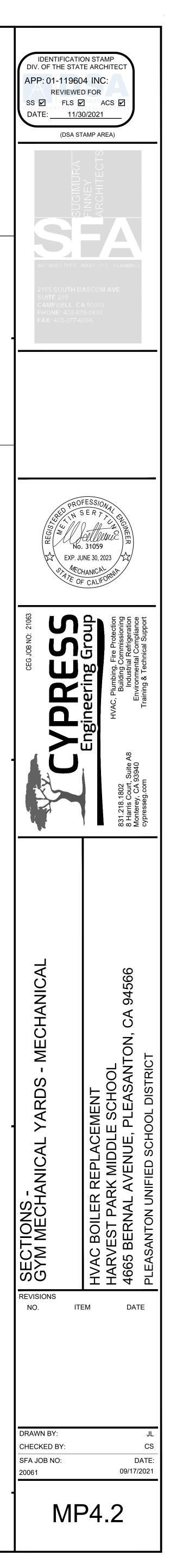
- 1. TRANSITION DUCT TO MATCH UNIT CONNECTION DIMENSIONS.
- 2. AC UNIT OUTLINE SHOWN FOR REFERENCE. SEE SECTIONS 2&4/MP4.2 FOR DUCTWORK.
- 3. DOAS UNIT OUTLINE SHOWN FOR REFERENCE. SEE SECTIONS 1&3/MP4.2 FOR DUCTWORK.
- 4. FOR CLARITY, DOAS UNIT IS NOT SHOWN IN THIS VIEW. SEE SECTIONS 1&3/MP4.2 FOR DUCTWORK.

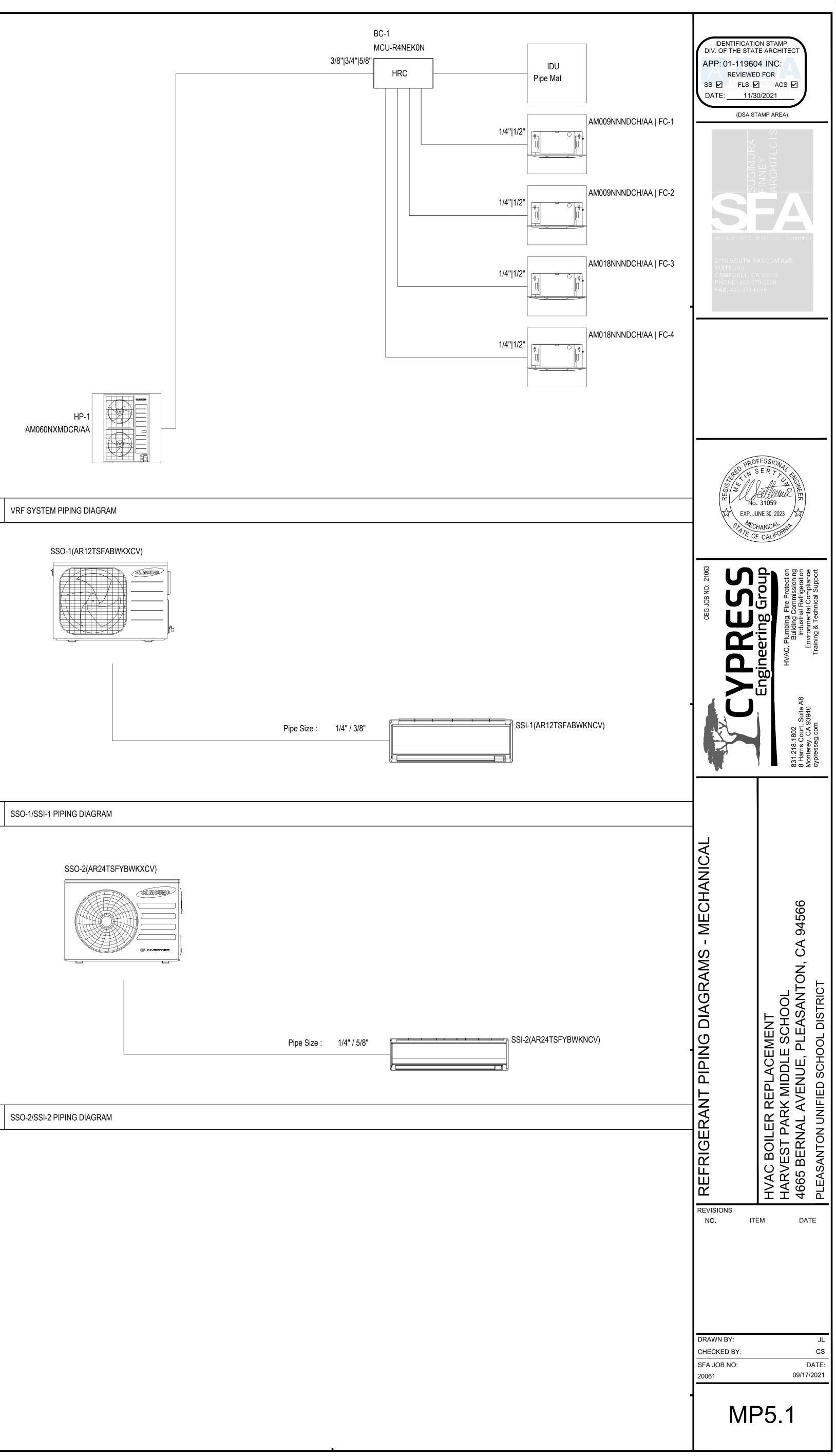




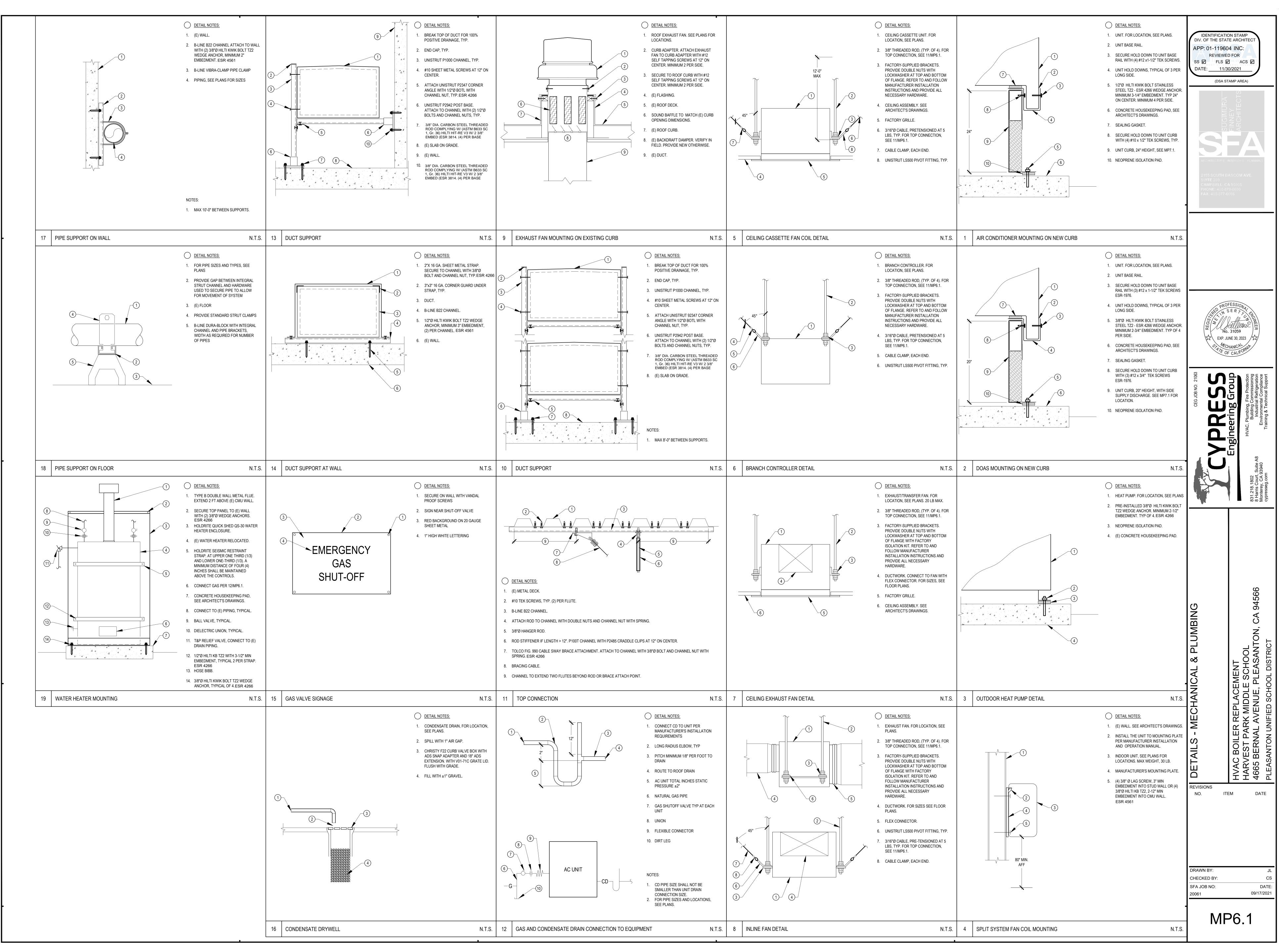


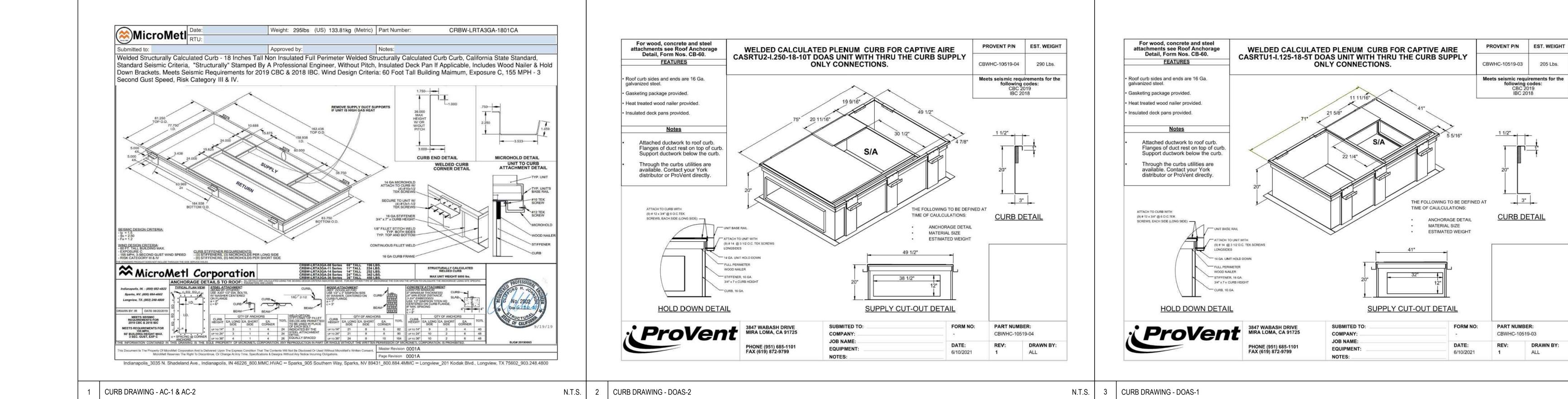
EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER SERVICES TO AVOID CONFLICT.

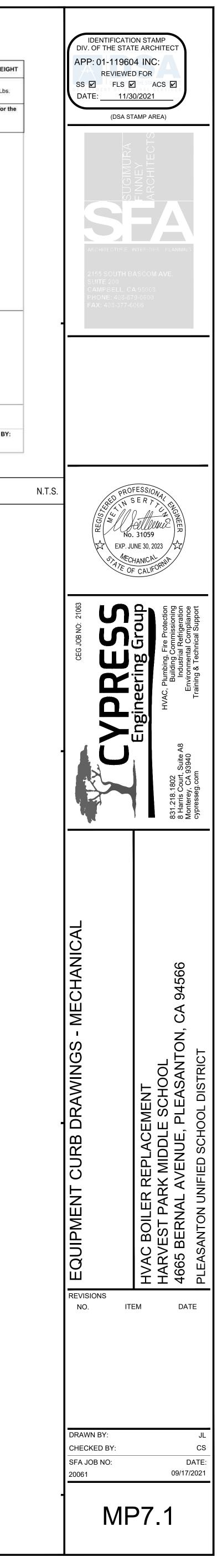




SSO-2/SSI-2 PIPING DIAGRAM







TIFICAT	E OF COMP	izo) LIANCE	CALIFORN		NRCC-MC
ject Nan			t Page:		Page 7 o
ject Add	ress: 4665	Bernal Avenue, Pleasanton, CA 94566 Date F	Prepared:		2021-0
DECLAR	ATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE			
le E. Add	ditional Ren	lections have been made based on information provided in previous tables of this documen narks. These documents must be provided to the building inspector during construction an /2019_compliance_documents/Nonresidential_Documents/NRCA/		w.energy.ca.g	ov/
YES	NO	Form/Title	Systems To Be Field Verified	Pass	spector Fail
۲	0	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.			
۲	O	NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".			
0	۲	NRCA-MCH-04-A Air Distribution Duct Leakage			
۲	0	NRCA-MCH-05-A Air Economizer Controls			
۲	C	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) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.			
۲	0	NRCA-MCH-07-A Supply Fan Variable Flow Controls			
0	۲	NRCA-MCH-08-A Valve Leakage Test			
0	۲	NRCA-MCH-09-A Supply Water Temperature Reset Controls			
0	۲	NRCA-MCH-10-A Hydronic System Variable Flow Controls			
0	۲	NRCA-MCH-11-A Automatic Demand Shed Controls			

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

CERTIFICATE	OF COMP	PLIANCE		 NRCC-MCH-
roject Nam	e: HVA		Report Page:	Page 8 of 1
Project Add	ress: 4665	Bernal Avenue, Pleasanton, CA 94566	Date Prepared:	 2021-06-1
6	0	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		
0	۲	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		
С	۲	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy Stora AC Systems are included in the scope, permit applicant should move this form to "Y		
C	۲	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ic Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutect Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems an included in the scope, permit applicant should move this form to "Yes".	ic	
0	۲	NRCA-MCH-16-A Supply Air Temperature Reset Controls		
С	۲	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		
С	۲	NRCA-MCH-18 Energy Management Control Systems		
0	۲	NRCA-MCH-19 Occupancy Sensor Controls		
С	۲	NRCA-MCH-20 Multi-Family Ventilation		
0	6	NRCA-MCH-21 Multi-Family Envelope Leakage		

### STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Replacement Project Address: 4665 Bernal Avenue, Pleasanton, CA 94566

P. DECLARAT	TION OF RE	EQUIRED CERTIFICATES OF VERIFICATION
Table E. Additi	ional Remai IERS Provide	ons have been made based on information provided in previous tables of this document rks. These documents must be completed by a HERS Rater and provided to the building i ers registry, but drafts can be found online at <u>https://www.energy.ca.gov/title24/2019s</u> ts/NRCV/
YES	NO	Form/Title
0	۲	NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater
0	۲	NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater
0	۲	NRCV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater
0	۲	NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater

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

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

### September 2020

01	02	03	04	05	06	07
System Name	System Zoning	Conditioned Floor Area Being Served (ft ² )	Thermostats <u>§110.2(b) &amp; (c)</u> ¹ , <u>§120.2(a)</u> or <u>§141.0(b)2E</u>	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(I
AC	single zone	≤ 25,000 ft²	Setback + DR Tstat per §110.12	NA: 7 day per §120.2(e)1	NA: Single Zone	DR Tstat per §110.12
DOAS	single zone	≤ 25,000 ft²	Setback + DR Tstat per §110.12	NA: 7 day per §120.2(e)1	NA: Single Zone	DR Tstat per §110.12

residential and	d hotel/motel occupancies. Fo	able to demonstrate compliance with mo r alterations, only ventilation systems be ntilation rates and airflows may be shown	ing altered within the scope of the per	mit application			
01	Check the box if th	ne project is showing ventilation calculat	ions on the plans, or attaching the calc	ulations instea			
02	Check this box if the project includes Nonresidential or Hotel/Motel spaces						
	Check this box if the project includes new or altered high-rise residential dwelling units						
03	Check the box if th	ne project is using natural ventilation in a	iny spaces to meet required ventilation	n rates per §120			
Nonresidentia	al and Hotel/ Motel Ventilatio	n Systems					
	04	05	06				

rate of california <b>/lechanical S</b>							•					nical Systems											
RCC-MCH-E (Created ERTIFICATE OF C roject Name:	Contraction of the second s	cement				Repor	Page;		CALIFORNIA ENERGY	NRCC-MCH-E Page 4 of 11	CERTIFICA This docur	(Created 09/2020) TE OF COMPLIANCE ment is used to demonsti	the second states and the	A MARKET TO DO THE REAL PROPERTY OF		ns that are wi	thin the scope o	f the permi	t application	n and are dem		ornia energi ng compliar	١
	4665 Bernal Aven			nts of §140.9(d	a) and will be docur	Date P	repared:	cument.		2021-06-18	Project Na	ve path outlined in <u>§140.</u> me: HVAC Boiler Rep	lacement						t Page:				
	HP must be consi				➡ veriende en						A. GENER	dress: 4665 Bernal Aver	nue, Pleasa	anton, CA 9450			Í Í		Prepared:			10. de 1 d 100	
able Instructions		llowing Table to	demonstrate	compliance w	vith mandatory con	trols in <u>§110.2</u> (	and <u>§120.2</u> and	l prescriptive c	ontrols in <u>§140.</u> 4	<u>(f)</u> and <u>(n)</u> or	02 Clima	Period and a second		5 	Pleasanton 12		04 Total Co 05 Total U	ncondition	ed Floor Are			25,00	0
equirements in <u>§.</u> 01	1 <u>41.0(b)2E</u> for alte 02	ered space cond 03		ns. 04	05	06		07	08	09	Office		[	Retail (M)			06 # of Sto	igerated W	arehouse (S	Construction of the second		1	
System Name	System Zoning	Conditioned Floor Area Being Served		mostats ( <u>b) &amp; (c)</u> 1,	Shut-Off Controls	Isolation Zone Controls	Demand	Response nd §120.2(b)	Supply Air Temp. Reset	Window Interlocks per	High-R	Motel Guest Rooms (R- Rise Residential (R-2/R-3)	) [	School (E)			Healthca	Vrite In):		1	11 11 11		
		(ft ² )	<u>§120.2(a)</u> o	r <u>§141.0(b)2E</u>	<u>§120.2(e)</u>	<u>§120.2(g)</u>	<u>9110.12</u> di	iu <u>9120.2(0)</u>	<u>§140.4(f)</u>	<u>§140.4(n)</u>		TES: Climate zone can be	e determine	ea on the Calif	ornia Energy	Commission s	website at <u>http</u>	://www.en	ergy.ca.gov,	(maps/renew)	able/build	aing_ciima	te_zone
AC	single zone	≤ 25,000 ft²	Setback + D §110		NA: 7 day per §120.2(e)1	NA: Single Zone	DR Tstat pe	er §110.12	NA: Single Zone	NA: Alteration project	Table Instr	ructions: Include any med §141.0(b)2 for alteration		stems that are	e within the so	cope of the pe	rmit application	and are de	monstratin	g compliance	using the	e prescriptiv	e path
DOAS	single zone	≤ 25,000 ft²	Setback + D §110		NA: 7 day per §120.2(e)1	NA: Single Zone	DR Tstat pe	er §110.12	NA: Single Zone	NA: Alteration project		01			Му рг	oject consist	s of (check all th 02	nat apply)	11		C	03	
	vity gas wall heat etback thermosta		r heaters, grav	vity room hea	ters, non-central el	ectric heaters, j	ireplaces or de	corative gas a	ppliances, wood	stoves are not	✓ Heatin	Air System(s ng Air System	5)		Water Eco		n Components		☑ Air	Dr Economizer	/ System	Componen	its
		the second se			mpliance is achieve EXCEPTION 1 to <u>§1</u>						🖌 Coolin	g Air System Mechanical Con	ntrols		Pumps Hydronic	System Piping	Į			ctric Resistan 1 Systems	ce Heat		
											Mecha new)	anical Controls (existing t	to remain, a	altered or	Cooling To Cooling To Chillers	owers				ctwork (existi ntilation	ng to rem	nain, altere	d or ne
able Instructions		lowing Table to			ith mandatory vent ms being altered w						C COMP			1	Boilers				Zon	nal Systems/ 1	erminal I	Boxes	
	e, the required out	tdoor ventilatior	n rates and airj	flows may be :	shown on the plans lculations on the pl	or the calculat	ions can be pre	esented in a sp	readsheet.		1000 C 0000 C 00 C 00	ructions: If any cell on th		vs "DOES NOT	COMPLY" or ' 04	r - r		Conditions" 06	refer to Tab		nce. 08		09
02	Check thi	s box if the proj	ect includes N	onresidential	or Hotel/Motel spa high-rise residentia	ices	•	ons instead of	completing this		System	rv I I	Fa	ans/	System Controls	0!	Tor	minal Box	Distril		Cooling	g	02
03	1	box if the proje	ect is using nat		on in any spaces to			es per <u>§120.1(</u>	<u>c)2</u> .		<u>§110.1</u> , <u>§110.2</u> ,	AND <u>§140.4(k)</u>	AND 5140	omizers 0.4(c), 0.4(e)	<u>§110.2,</u> <u>§120.2</u> ,	AND Ventil	D1 AND C	Controls 140.4(d)	AND <u>§12</u> <u>§14</u>	0.3, AND	Towers §110.2(e	s Cor	mplianc
able Continued	04			05	Ì	06		р. Э	07		<u>§140.4</u> (See Table	e F) (See Table G)	(See T	Table H)	§140.4(f) (See Table I)	(See Ta		e Table K)	(See T	CHICAGO CONTRA DE LA	See Table	≥ M)	
											Yes	AND	AND Y	Yes AND	Yes	AND Ye	Der Unterforder		AND Yo Complianc	e (See Table C	) for Deta	ails)	COM
A Building Energy I	fficiency Standards	- 2019 Nonreside	ential Complianc	ce: <u>http://www</u> .	energy.ca.gov/title24	4/2019standards				September 2020	CA Building	Energy Efficiency Standard	is - 2019 Noi	onresidential Co	mpliance: <u>http</u> :	//www.energy	.ca.gov/title24/20	19standards	L				Sep
TATE OF CALIFORNIA											STATE OF CA												
Aechanical S RCC-MCH-E (Created ERTIFICATE OF C	09/2020)							c	CALIFORNIA ENERGY		NRCC-MCH-E	Created 09/2020) TE OF COMPLIANCE									CALIFO	RNIA ENERGY	
roject Name:	HVAC Boiler Repla 4665 Bernal Aven		CA 94566			Repor Date P	Page: repared:			Page 5 of 11 2021-06-18	Project Na	me: HVAC Boiler Repl dress: 4665 Bernal Aver		anton, CA 9456	56				t Page: Prepared:				
able Continued		1.1 1.1			į.										-61								
ystem Name:	AC		Design OA r Flow ¹ :	4,500	0 System D Transfer		0	1	per §141.0(b)2c	and <u>§141.0(b)2</u> ² : (alteration)		is auto-filled with unedit made in Table O have b		1011 V2	18 10 10	6	STREET STREET				n.		
08	0	722	10	11	12 13	14	15		16	2 9 		IONAL REMARKS						ins for peri			20.		
Space Name or Item Tag	V Occupan	lechanical Venti	Conditioned Floor		# of Required	d Required	er <u>§120.1(c)4</u> Provided per		or Occupant Sens 1(d)3, §120.1(d)		This table	includes remarks made L	by the perm	nit applicant to	o the Authorit	y Having Juri	diction.						
		-,,,,,	Area (ft²)	/ toilets	people ^s CFM	CFM	Design CFM	ľ									-						
AC	Gym/ sports are	na (play area)	11,000		1,650	5,500	13,600	DCV Occ	Provided per §	1997-1992	Table Insti	SYSTEM SUMMARY (D ructions: Complete the for 140.4(a), §140.4(b) and	ollowing eq	quipment sche			vith mandatory	requiremer	nts found in	<u>§110.1</u> and <u>§</u> 2	1 <u>10.2(a)</u> a	and prescri	ptive re
				in and a second s				Sensor	NA. NOT TEQUIES			m Equipment Sizing (incl	ludes air co	onditioners, co	ondensers, he	eat pumps, V				07	08	09	10
	Total System Requ				650 18		Ventilation fo	r this System	Complies?	Yes								Equip		g per Mechani	cal Sched		'h) <u>§140</u>
Air filtration requ	irements apply to	o the following t	hree system ty	ypes per <u>§120.</u>	tion for the zone/sy . <u>1(c)1A</u> : space cond lanced ventilation s	litioning system					Name or Item Tag	Equipment Category pe Tables 110.2	er	Equipmen Tables 110.			Smallest Size Available ¹	Per	Rated	Supp	ensible		Total Heating
roviding outside Uniform Mechar	air to occupiable s ical Code may ha	space. ve more stringer		100	the most stringent		5 (S							, <del></del>			<u>§140.4(a)</u>	Design (kBtu/h)	(kBtu/h)	Output Per	Design Btu/h)	(kBtu/h)	Load (kBtu/h
For lecture halls		, the expected r	the second se		e determined in acc		the second se	the second se		anten la fac	AC	Unitary AC/	AC,	air cooled, pa	ckage (3 phas	.e)	Yes	648	800	0	336	410	
entilation. Exam	ples of spaces wh	ich require light	ing occupancy	sensors includ	ave lighting occupe de offices 250ft ² or es, corridors, stairw	smaller, multip	urpose rooms l	less than 1,000	Oft ² , classrooms,	, conference		Condensers Unitary AC/	2	. 03			(15 ¹ ). ²			2	1		
<u>130.1(c)</u> .						.,, .,					DOAS	Condensers	AC,	air cooled, pa	ckage (3 phas	e)	Yes	200	250	0	75	115	
<b>C. TERMINAL BO</b> This Section Does									-			DTES: Equipment shall be er <u>§140.4(a)</u> . Healthcare			the available	options of th	e desired equipr	ment line, n	ecessary to	meet the desi	gn heatin	ng and cool	ing load
	I (DUCTWORK A	ND PIPING)								7	² It is comi ³ If equipm	mon practice to show rat nent is heating only, leav	ted output e cooling o	capacity on th output and loa	d blank. If eq	uipment is co	oling only, leave				tables.		
able Instructions		lowing tables to	show complia	ance with man	ndatory pipe insulat	tion requiremer	ts found in <u>§12</u>	20.3 and presc	riptive requirem	ents found in	⁴ Authority Table Cont	y Having Jurisdiction may tinued	y ask for loo	ad calculation	s used for cor	npliance per <u>s</u>	140.4(b).						
able Continued																							
A Building Energy I	fficiency Standards	- 2019 Nonreside	ntial Complianc	ce: <u>http://www</u> .	energy.ca.gov/title2	4/2019standards				September 2020	CA Building	Energy Efficiency Standard	is - 2019 Noi	nresidential Col	mpliance: <u>http:</u>	//www.energy	.ca.gov/title24/20	19standards	i.				Sep
TATE OF CALIFORNIA	systems										STATE OF CAI	lifornia nical Systems											
RCC-MCH-E (Created ERTIFICATE OF C		romont				Papar	Dagor	(	CALIFORNIA ENERGY	NRCC-MCH-E	CERTIFICA	(Created 09/2020) TE OF COMPLIANCE me: HVAC Boiler Rep	lacomont					Papar	t Page:		CALIFO	DRNIA ENERGY	
roject Address:	4665 Bernal Aven		CA 94566				Page: repared:			Page 6 of 11 2021-06-18	Project Ad	dress: 4665 Bernal Ave	nue, Pleasa					Date I	t Page: Prepared:				
able Continued Ouct Leakage Sea	1111 - 111						16				Dry Syster 01	m Equipment Efficiency 02	(other thar	n Package Ter	r ir	04	05	e Terminal	Heat Pump 06	s (PTHP)) 07		08	
	e questions below ving duct system( The scope of	s):	AC and		Duct leak these sys ving healthcare faci		gerea for		No		Name or	Size Category	1	Rating Co	andition	Heating	Min Efficie		Design		Mi	oling Mode n Efficiency equired per	y
12 Yes 13 No	Duct system	provides condit	ioned air to ar	n occupiable s	pace for a constant of conditioned flo	t volume, single	zone, space-co	onditioning sy	stem.		Item Tag	(Btu/h)		(°F		Efficiency Un	it Tables 110 Title 20	.2/ Ef	ficiency	Efficiency U	nit Tal	bles 110.2/ Title 20	0
13 NO 14 No				115	locations is more t		total surface a	rea of the ent	ire duct system:		AC	≥240,000 and <760,	,000						0.81	EER		10 11.6	
		In a space			as a U-factor greate roof has fixed vent					et the	DOAS	≥65,000 and <135,	000						0.81	EER	2	11.2 12.9	
		10252201122426	nditioned crav									1								045.02.034			
15 No 16 No	The scope of	f the project incl	udes an existi	ng duct syster	duct system, which n <mark>that is document</mark>	ed to have bee	n previously sea		3343-3477-345	d verification and	G. PUMP This Section	<b>S</b> on Does Not Apply											
17	-	-	•		Reference Nonresi ornia Mechanical C		ix NA2.					YSTEMS & AIR ECONO											
1 (00) 110 70	WEDC									671	document	ructions: Complete the fo the system details, then irements and do not nee	add fans w	within that sys	tem to docun								
<b>A. COOLING TO</b> This Section Does											System Na	1000	Economize	en Boundary	ential Temper	ature	nomizer Desi	gned per §: and (m)	42,02522	System Fan Type:		Variable	Air Volu
	N OF REQUIRED				n previous tables of	this document	If any selection	n needs to be	changed please	explain why in	01	02		03	04 Maximum De	05	06		07	Pressure Dro	p Adjuste	1997. 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	8 le 140.4
able E. Additiona		documents mus	t be provided t	to the building	inspector during c						Fan Nam Item Ta	Ean Functi	ion		Supply Airflo (CFM)	8	nit ² Design HP		Device		10.10.005050505	Airflow thro	
	0			orm/Title			Systems To	o Be Field Veri	fied Pass	eld Inspector	AC	Supply		1	14,000	внр	14.57		None used	12			
•	NRCI-MCH	-01-E - Must be	submitted for	all buildings.														Calculat	ed Adjustme	nt (in H ₂ O)			
									1		Total Sv	ystem Design Supply Airf	flow (CFM)	14,000		Total System	Design (B)HP:	14.57	<b>№</b>	laximum Syst	em Fan P	Power (B)H	P:
												A - weby this	v	1 - 1,000	<u>,</u>				"				<u></u>
A Building Energy I	fficiency Standards	- 2019 Nonreside	ntial Complianc	ce: <u>http://ww</u> w.	.energy.ca.gov/title24	4/2019standards				September 2020	CA Building	Energy Efficiency Standard	ds - 2019 Noi	onresidential Co	mpliance: <u>http</u> :	//www.energy	.ca.gov/title24/20	)19standards	i				Sep
0/ ·																	_						

state of california Mechanical Systems	STATE OF CALIFORNIA Mechanical Systems	
NRCC-MCH-E (Created 09/2020)       CALIFORNIA ENERGY COMMISSION         CERTIFICATE OF COMPLIANCE       NRCC-MCH-E         Project Name:       HVAC Boiler Replacement         Report Page:       Page 4 of 11	NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating complian	1
Project Address: 4665 Bernal Avenue, Pleasanton, CA 94566       Date Prepared:       2021-06-18         'FOOTNOTE: Computer room economizers must meet requirements of \$140.9(a) and will be documented on the NRCC-PRC-E document.       2021-06-18	prescriptive path outlined in \$140.4, or \$141.0(b)2 for alterations.         Project Name:       HVAC Boiler Replacement         Report Page:	
² The unit used for HP must be consistent for all fans within a system.	Project Address: 4665 Bernal Avenue, Pleasanton, CA 94566       Date Prepared:         A. GENERAL INFORMATION       Date Prepared:	
I. SYSTEM CONTROLS Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in <u>§110.2</u> and <u>§120.2</u> and prescriptive controls in <u>§140.4(f)</u> and <u>(n)</u> or	01       Project Location (city)       Pleasanton       04       Total Conditioned Floor Area       25,000         02       Climate Zone       12       05       Total Unconditioned Floor Area	)
requirements in <u>\$141.0(b)2E</u> for altered space conditioning systems.         01         02         03         04         05         06         07         08         09	03       Occupancy Types Within Project:       06       # of Stories (Habitable Above Grade)       1         Office (B)       Retail (M)       Non-refrigerated Warehouse (S)	
Conditioned Thermostats Shut-Off Isolation Zone Demand Response Supply Air Window	Hotel/ Motel Guest Rooms (R-1)       ✓ School (E)       Healthcare Facility (I)         High-Rise Residential (R-2/R-3)       Relocatable Class Bldg (E)       Other (Write In):	
System NameSystem ZoningFrom Served (ft²) $\underline{\$110.2(b) \& (c)^1}$ ControlsControls $\underline{\$110.12}$ and $\underline{\$120.2(b)}$ Temp. ResetInterlocks per $\underline{\$140.4(f)}$ System NameSystem Zoning $\underline{\$10.2(b) \& (c)^1}$ $\underline{\$10.2(b) \& (c)^1}$ Controls $\underline{\$120.2(g)}$ $\underline{\$110.12}$ and $\underline{\$120.2(b)}$ Temp. ResetInterlocks per $\underline{\$140.4(f)}$	¹ FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at <u>http://www.energy.ca.gov/maps/renewable/building_climat</u>	<u>e zon</u>
AC single zone $\leq 25,000 \text{ ft}^2$ $\begin{cases} \text{Setback + DR Tstat per} \\ \$110.12 \end{cases}$ $\begin{array}{c} \text{NA: 7 day per} \\ \$120.2(e)1 \end{array}$ $\begin{array}{c} \text{NA: Single} \\ \text{Zone} \end{array}$ $\begin{array}{c} \text{DR Tstat per \$110.12} \end{array}$ $\begin{array}{c} \text{NA: Single} \\ \text{Zone} \end{array}$ $\begin{array}{c} \text{NA: Alteration} \\ \text{project} \end{array}$	<b>B. PROJECT SCOPE</b> Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive	e path
DOAS     single zone     ≤ 25,000 ft²     Setback + DR Tstat per \$110,12     NA: 7 day per \$120,2(c)1     NA: Single Zone     DR Tstat per §110,12     NA: Single Zone     NA: Alteration	§140.4, or §141.0(b)2 for alterations.         My project consists of (check all that apply)	
Single zone       Single zone       Single zone       Single zone       Single zone       Single zone       project         'FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not       Project       Project	01     02     03       Air System(s)     Wet System Components     Dry System Component	ts
required to have setback thermostats. * NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: System 1: SA Temp Reset: Exempt because zones compliant with <u>§140.4(d)</u> ; EXCEPTION 1 to <u>§140.4(f)</u>	Image: Water Economizer       Image: Water Economizer         Image: Water Economizer       Image: Water Economizer <td></td>	
EX. System 1. SA Temp Reset. Exempt because zones compliant with <u>\$140.4(0)</u> , EXCEPTION 1 to <u>\$140.4()</u>	Mechanical Controls       Hydronic System Piping       Fan Systems         Mechanical Controls (existing to remain, altered or new)       Cooling Towers       Ductwork (existing to remain, altered or Cooling Towers         Chillers       Ventilation	d or ne
J. VENTILATION AND INDOOR AIR QUALITY	Image: new)     Chillers     Ventilation       Boilers     Zonal Systems/ Terminal Boxes	
Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in <u>§120.1</u> and <u>§120.2(e)3B</u> for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.	C. COMPLIANCE RESULTS Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.	
01 Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table. 02 Check this box if the project includes Nonresidential or Hotel/Motel spaces	O1         O2         O3         O4         O5         O6         O7         O8           System         5eec/         System         5eec/         System         5eec/         5eec/         5eec/         5eec/         5eec/         5eec/         05         06         07         08         6ee         06         07         08         6ee         6eee         6ee         6eee         <	0
02       Image: Check this box if the project includes non-esidential of notely motel spaces         03       Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per §120.1(c)2.	Summary §110.1,         Pumps AND         AND         Fans/ Economizers \$140.4(r)         Controls AND         Ventilation \$110.2,         Terminal Box AND         Distribution \$120.1         Cooling AND	mulian
Nonresidential and Hotel/ Motel Ventilation Systems       04     05     06     07	§110.2,         §140.4(e)         §120.2,         §140.4(f)         §140.4(f)         §140.4(f)         §140.4(f)	nplian
Table Continued	(See Table F)         (See Table G)         (See Table H)         (See Table I)         (See Table J)         (See Table K)         (See Table L)         (See Table M)           Yes         AND         AND         Yes         Yes         AND         Yes         AND	сом
	Mandatory Measures Compliance (See Table Q for Details)	сом
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards September 2020	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards/	Se
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Mechanical Systems	
CERTIFICATE OF COMPLIANCE NRCC-MCH-E	NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY CERTIFICATE OF COMPLIANCE	сомм
Project Name:HVAC Boiler ReplacementReport Page:Page 5 of 11Project Address:4665 Bernal Avenue, Pleasanton, CA 94566Date Prepared:2021-06-18	Project Name:       HVAC Boiler Replacement       Report Page:         Project Address:       4665 Bernal Avenue, Pleasanton, CA 94566       Date Prepared:	
Table Continued     Air Filtration per §120.1(c) and §141.0(b)2 ²	<b>D. EXCEPTIONAL CONDITIONS</b> This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	
System Name:     AC     System Design OA CFM Air Flow ¹ :     4,500     System Design Transfer Air CFM:     O       Provided per §141.0(b)2c (alteration)	Selections made in Table O have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.	
08         09         10         11         12         13         14         15         16           Mechanical Ventilation Required per §120.1(c)3 ³ Exh. Vent. per §120.1(c)4	E. ADDITIONAL REMARKS	
Space Name or Item Tag       Conditioned       # of Floor       Required       Required       Provided per Min OA       DCV or Occupant Sensor Controls	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	
Area (ft²)     / toilets     PEOPRE     CFM     CFM     Design Chivit       DCV     Provided per §120.1(d)4	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)	
AC Gym/ sports arena (play area) 11,000 1,650 5,500 13,600 Occ NA: Not required space type	Table Instructions: Complete the following equipment schedules to show compliance with mandatory requirements found in <u>§110.1</u> and <u>§110.2(a)</u> and prescription found in <u>§140.4(b)</u> and <u>§140.4(b)</u> or <u>§141.0(b)</u> for alterations.	otive re
Sensor	Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)010203040506070809	10
17     Total System Required Min OA CFM     1,650     18     Ventilation for this System Complies?     Yes	Equipment Sizing per Mechanical Schedule (kBtu/h           Heating Output ^{2,3} Cooling Output ^{2,3}	10115
¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system. ² Air filtration requirements apply to the following three system types per <u>§120.1(c)1A</u> : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems	Name or Item Tag     Equipment Category per Tables 110.2     Equipment Type per Tables 110.2 & Title 20     Smallest Size Available ¹ Supp.	Total Heatin
providing outside air to occupiable space. ³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.	9140.4(a) Design (kBtu/h) Output (kBtu/h) (kBtu/h)	Load kBtu/l
⁴ See <u>Standards Tables 120.1-A and 120.1-B</u> . ⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.	AC Unitary AC/ AC, air cooled, package (3 phase) Yes 648 800 0 336 410	
⁶ §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft ² or smaller, multipurpose rooms less than 1,000ft ² , classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by		
§130.1(c).	DOASOnitary AC, CondensersAC, air cooled, package (3 phase)Yes200250075115	
K. TERMINAL BOX CONTROLS	¹ FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and coolid	ing loa
This Section Does Not Apply	building per <u>\$140.4(a)</u> . Healthcare facilities are excepted. ² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. ³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.	
L. DISTRIBUTION (DUCTWORK AND PIPING) Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(I) for duct leakage testing.	⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per <u>§140.4(b)</u> . Table Continued	
Table Continued		
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards September 2020	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	Se
	state of california Mechanical Systems	
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION CRETIFICATE OF COMPLIANCE NRCC-MCH-E	NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY CERTIFICATE OF COMPLIANCE	сомм
Project Name:HVAC Boiler ReplacementReport Page:Page 6 of 11Project Address:4665 Bernal Avenue, Pleasanton, CA 94566Date Prepared:2021-06-18	Project Name:       HVAC Boiler Replacement       Report Page:         Project Address:       4665 Bernal Avenue, Pleasanton, CA 94566       Date Prepared:	
Table Continued Duct Leakage Sealing	Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))         01       02       03       04       05       06       07       08	1
The answers to the questions below apply to the following duct system(s):     AC and DOAS     Duct leakage testing triggered for these systems?     No	01         02         03         04         05         06         07         08           Heating Mode           Cooling Mode           Name as         Size Cotegoes	
11       No       The scope of the project includes only duct systems serving healthcare facilites.         12       Yes       Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	Name or Item Tag     Size Category (Btu/h)     Rating Condition (°F)     Reficiency Unit Efficiency Unit     Min Efficiency Required per Tables 110.2/     Design Efficiency     Efficiency Unit	
13       No       The space conditioning system serves less than 5,000 ft ² of conditioned floor area.         14       No       The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	Title 20         Title 20         Title 20	
Outdoors         In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the	AC         ≥240,000 and <760,000         0.81         IEER         11.6           Desc         EER         11.2         EER         11.2	
requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces         In an unconditioned crawlspace	DOAS         ≥65,000 and <135,000         0.81         12.9	
In other unconditioned spaces         No       The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	G. PUMPS	
16 No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the <u>Reference Nonresidential Appendix NA2</u> .	This Section Does Not Apply	
17         Duct system shall be sealed in accordance with the California Mechanical Code.	H. FAN SYSTEMS & AIR ECONOMIZERS Table Instructions: Complete the following Table for fan systems to demonstrate compliance with prescriptive requirements found in <u>§140.4(c)</u> , <u>§140.4(e)</u> and <u>g</u>	
M. COOLING TOWERS	document the system details, then add fans within that system to document compliance with fan power requirements. Fan systems serving only process loads these requirements and do not need to be included in Table H.	are ex
This Section Does Not Apply	System Name:     AC     Economizer:1     Differential Temperature     Economizer Controls:     Designed per §140.4(e) and (m)     System Fan Type:     Variable A	97.00 - 375 <del>4</del> 53
N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION  Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table 5. Additional Paradas. These desures to previded to the building inspector during construction and can be found online at https://www.energy.com/	01     02     03     04     05     06     07     08       Fan Name or     Fan Power Pressure Drop Adjustment - Table     Design     Design     Fan Power Pressure Drop Adjustment - Table	en Normere
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/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/">https://www.energy.ca.gov/</a> title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/         Sield Inspector	Fan Function     Qty     Supply Airflow (CFM)     HP Unit ² Design HP       Design Airflow thro	ugh D
YES         NO         Form/Title         Systems To Be Field Verified         Field Inspector           Pass         Fail	AC Supply 1 14,000 BHP 14.57 None used	
NRCI-MCH-01-E - Must be submitted for all buildings.	Calculated Adjustment (in H ₂ O)	
	Total System Design Supply Airflow (CFM):       14,000       Total System Design (B)HP:       14.57       Maximum System Fan Power (B)HF	P:
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	Se

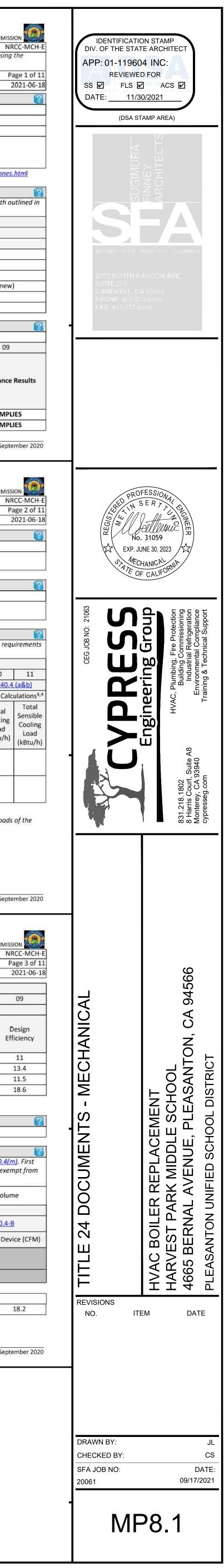
NRCC-MCH-	E (Created 09	/2020)			
CERTIFIC	ATE OF CO	VIPLIANCE			
Project N	lame: HV	AC Boiler Replacer	ment	Report Page:	
Project A	ddress: 46	65 Bernal Avenue,	Pleasanton, CA 94566	Date Prepared:	
Table Cor	ntinued				
Duct Lea	kage Sealin	g			
1		questions below ng duct system(s):	AC and DOAS	Duct leakage testing triggered for these systems?	
11	No	The scope of the	e project includes only duct systems serv	ving healthcare facilites.	
12	Yes	Duct system pro	ovides conditioned air to an occupiable s	space for a constant volume, single zone, spa	ce-conditioning
13	No	The space cond	itioning system serves less than 5,000 ft	² of conditioned floor area.	
14	No	The combined s	urface area of the ducts in the following	locations is more than 25% of the total surfa	ace area of the
			Outdoors		
				as a U-factor greater than the U-factor of the roof has fixed vents or openings to the outs	
			In an unconditioned crawlspace		
			In other unconditioned spaces		
15	No	The scope of the	e project includes extending an existing	duct system, which is constructed, insulated	or sealed with
16	No		이 같은 영향성 사람이 이 방법 사람이 있었다. 것 같은 것 같	m that is documented to have been previous <u>Reference Nonresidential Appendix NA2</u> .	ly sealed as cor

able Instru	ctions: Sele	REQUIRED CERTIFICATES OF INSTALLATION ections have been made based on information provided in previous tables of marks. These documents must be provided to the building inspector during of	
		/2019_compliance_documents/Nonresidential_Documents/NRCI/	construction and can be jound omine at <u>maps</u>
YES	NO	Form/Title	Systems To Be Field Veri
6		NRCI-MCH-01-E - Must be submitted for all buildings.	

CALIFORNIA ENERGY COMMISSION Report Page: Date Prepared: Page 9 of 11 2021-06-18 ent. If any selection needs to be changed, please explain why in ng inspector during construction. The final documents must be 19standards/2019_compliance_documents/ Field Inspector Pass Fail 

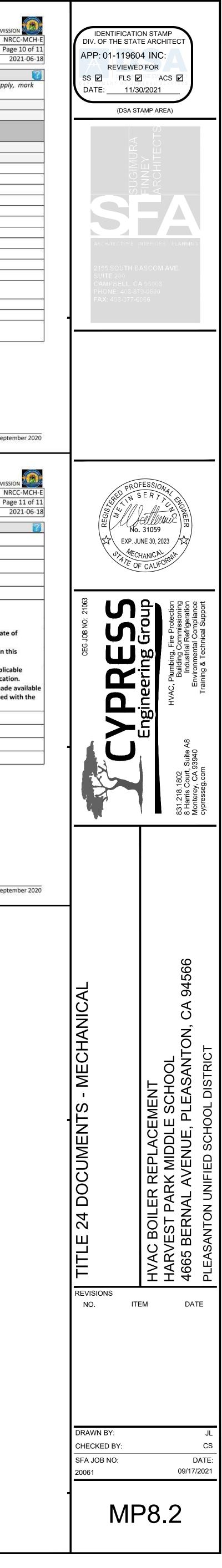
September 2020

September 2020



# **COPYRIGHT © 202**

the plan sheet or construction docu Compliance with Mandatory Meas MCH Mandatory Measures Note B Heating Equipment Efficiency per S Cooling Equipment Efficiency per S	enue, Pleasanton, CA 94566 OCUMENTATION LOCATION e mandatory measures are documented in th cument location as "N/A", any active cells th 01		Report Page: Date Prepared:		
Table Instructions: Indicate where the plan sheet or construction doc Compliance with Mandatory Meas MCH Mandatory Measures Note B Heating Equipment Efficiency per	e mandatory measures are documented in th cument location as "N/A", any active cells th 01		21		
Table Instructions: Indicate where the plan sheet or construction doc Compliance with Mandatory Meas MCH Mandatory Measures Note B Heating Equipment Efficiency per	e mandatory measures are documented in th cument location as "N/A", any active cells th 01				
Compliance with Mandatory Meas MCH Mandatory Measures Note B Heating Equipment Efficiency per <u>s</u>	01				that do i
MCH Mandatory Measures Note B Heating Equipment Efficiency per Cooling Equipment Efficiency per	sures documented through	hat are left blank v	vill result in non-compliance i	in Table C. 02	
MCH Mandatory Measures Note B Heating Equipment Efficiency per Cooling Equipment Efficiency per	sures documented through	-	Plan sheet (	or construction document l	location
Heating Equipment Efficiency per g	NI	10			
Cooling Equipment Efficiency per	Block:				
Cooling Equipment Efficiency per	03 Mandatory Measure		Plan sheet	04 or construction document l	location
		M	P0.2	or construction document i	location
Europeo Standbullace Control and	<u>§110.1</u>	M	P0.2		
Furnace Standby Loss Control per	<u>§110.2(d)</u>	N/	<u> </u>		
Duct Insulation per <u>§120.4</u> Heating Hot Water Equipment Effi	iciency per §110.1	23 N/	05 00		
	ater Equipment Efficiency per §110.1	N/	32		
	owers conductivity of flow-based controls p	and the second	N		
	Fowers Flow Meter with analog output per §				
	Towers Overflow Alarm per <u>§110.2(e)4</u> Towers Efficient Drift Eliminators per <u>§110.2</u>	N/ 2(e)5 N/	St		
Pipe Insulation per <u>§120.3(b)</u>	owers Endern Dint Emminators per 3110.2	N/	NI		
동생님, 한국 방법, 한국 방법, 가슴 것이 가슴 것을 수 있는 것이 있다. 것이라, 아이지, 방법, 그는 것이라 가슴을 가셨는지?	on air fan controls and stack design and con	ntrols for N/	N:		
boilers per <u>§120.9</u> Heat Pump with Supplementary El	lectric Resistance Heater Controls per §110	19.00			
The air duct and plenum system is		N/	11		
Kitchen range hoods shall be rated	d for sound in accordance with Section 7.2 of	of ASHRAE			
CA Building Energy Efficiency Standard	ds - 2019 Nonresidential Compliance: <u>http://ww</u>	vw.energy.ca.gov/tit	le24/2019standards		
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE		vw.energy.ca.gov/tit		CALIFORNIA	A ENERGY
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep	placement	vw.energy.ca.gov/tit	le24/2019standards Report Page: Date Prepared:	CALIFORNIA	A ENERGY
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Ave	placement enue, Pleasanton, CA 94566	vw.energy.ca.gov/tit	Report Page:	CALIFORNI	A ENERGY
TATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Ave DOCUMENTATION AUTHOR'S I	placement enue, Pleasanton, CA 94566		Report Page:		
Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Ave DOCUMENTATION AUTHOR'S I	placement enue, Pleasanton, CA 94566 DECLARATION STATEMENT	complete.	Report Page:		
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Aver DOCUMENTATION AUTHOR'S I 1. I certify that this Certificate of C Documentation Author Name:	placement enue, Pleasanton, CA 94566 <b>DECLARATION STATEMENT</b> Compliance documentation is accurate and	complete.	Report Page: Date Prepared:		
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Ave DOCUMENTATION AUTHOR'S I	placement enue, Pleasanton, CA 94566 <b>DECLARATION STATEMENT</b> Compliance documentation is accurate and Chahan Shah	complete. Docur Signa	Report Page: Date Prepared: nentation Author Signature:	<u>Chahan.s.</u> Ste 6/18/21	
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Aver DOCUMENTATION AUTHOR'S I 1. I certify that this Certificate of C Documentation Author Name: Company: Address: City/State/Zip: RESPONSIBLE PERSON'S DECLARA	Diacement enue, Pleasanton, CA 94566 DECLARATION STATEMENT Compliance documentation is accurate and Chahan Shah Cypress Engineering Group 8 Harris Court, Suite A8 Monterey, CA 93940 ATION STATEMENT	complete. Docur Signat CEA/ Phone	Report Page: Date Prepared: mentation Author Signature: ture Date: HERS Certification Identificat	<u>Chahan.s.</u> Ste 6/18/21	
Address: City/State/Zip: RESPONSIBLE PERSON'S DECLARA I certify the following under pena 1. The information provided on th 2. I am eligible under Division 3 of Compliance (responsible design 3. The energy features and perfor Compliance documents, worksl 5. I will ensure that a completed s to the enforcement agency for	Declarement Prove, Pleasanton, CA 94566 DECLARATION STATEMENT Compliance documentation is accurate and Chahan Shah Cypress Engineering Group 8 Harris Court, Suite A8 Monterey, CA 93940 ATION STATEMENT alty of perjury, under the laws of the State this Certificate of Compliance is true and co of the Business and Professions Code to acc gner) armance specifications, materials, compone form to the requirements of Title 24, Part 1 r system design features identified on this sheets, calculations, plans and specification signed copy of this Certificate of Complian r all applicable inspections. I understand th	complete. Docur Signat CEA/ Phone of California: orrect. cept responsibility ents, and manufact and Part 6 of the Certificate of Com ns submitted to the ces shall be made nat a completed si	Report Page: Date Prepared: Date Prepared: unentation Author Signature: ture Date: HERS Certification Identificat HERS Certification Identificat tere of for the building design or s tured devices for the building california Code of Regulation inpliance are consistent with e enforcement agency for a available with the building p	Chohan . S. Me 6/18/21 tion (if applicable): 8312181802 tystem design identified on ng design or system design ons. the information provided pproval with this building p permit(s) issued for the bui	this Centrific on other permit a ilding, and
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Aver DOCUMENTATION AUTHOR'S I 1. I certify that this Certificate of C Documentation Author Name: Company: Address: City/State/Zip: RESPONSIBLE PERSON'S DECLARA I certify the following under pena 1. The information provided on th 2. I am eligible under Division 3 o Compliance (responsible design 3. The energy features and perfor Certificate of Compliance conford 4. The building design features or compliance documents, worksl 5. I will ensure that a completed s to the enforcement agency for documentation the builder pro	Declarement Declarement Declarement Compliance documentation is accurate and Chahan Shah Cypress Engineering Group 8 Harris Court, Suite A8 Monterey, CA 93940 ATION STATEMENT alty of perjury, under the laws of the State this Certificate of Compliance is true and co of the Business and Professions Code to acc gner) rmance specifications, materials, compone form to the requirements of Title 24, Part 1 r system design features identified on this sheets, calculations, plans and specification signed copy of this Certificate of Complian	complete. Docur Signal CEA/ Phone of California: orrect. cept responsibility ents, and manufact and Part 6 of the Certificate of Com ns submitted to the ceshall be made nat a completed si	Report Page: Date Prepared: Date Prepared: unentation Author Signature: ture Date: HERS Certification Identificat HERS Certification Identificat tere of for the building design or s tured devices for the building california Code of Regulation inpliance are consistent with e enforcement agency for a available with the building p	Chohan . S. Me 6/18/21 tion (if applicable): 8312181802 system design identified on ng design or system design ons. the information provided pproval with this building p permit(s) issued for the built of Compliance is required	this Centrific on other permit a ilding, and
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Aver DOCUMENTATION AUTHOR'S I 1. I certify that this Certificate of C Documentation Author Name: Company: Address: City/State/Zip: RESPONSIBLE PERSON'S DECLARA I certify the following under pena 1. The information provided on th 2. I am eligible under Division 3 o Compliance (responsible design 3. The energy features and perfor Certificate of Compliance confo 4. The building design features or compliance documents, worksl 5. I will ensure that a completed s to the enforcement agency for documentation the builder pro Responsible Designer Name:	Declaration, CA 94566 DECLARATION STATEMENT Compliance documentation is accurate and Chahan Shah Cypress Engineering Group 8 Harris Court, Suite A8 Monterey, CA 93940 ATION STATEMENT alty of perjury, under the laws of the State this Certificate of Compliance is true and co of the Business and Professions Code to acc gner) prmance specifications, materials, compone form to the requirements of Title 24, Part 1 r system design features identified on this sheets, calculations, plans and specification signed copy of this Certificate of Complian r all applicable inspections. I understand th ovides to the building owner at occupancy.	complete. Docur Signal CEA/ Phone of California: orrect. cept responsibility ents, and manufae L and Part 6 of the Certificate of Com ns submitted to the ceshall be made nat a completed si Responsion	Report Page: Date Prepared: Date Prepared: nentation Author Signature: ture Date: HERS Certification Identificat HERS Certification Identificat te: r for the building design or s tured devices for the building California Code of Regulation ppliance are consistent with e enforcement agency for a available with the building p gned copy of this Certificate	Chohan . S. Me 6/18/21 tion (if applicable): 8312181802 tystem design identified on ng design or system design ons. the information provided pproval with this building p permit(s) issued for the bui	this Centrific on other permit a ilding, and
STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020) CERTIFICATE OF COMPLIANCE Project Name: HVAC Boiler Rep Project Address: 4665 Bernal Aver DOCUMENTATION AUTHOR'S I 1. I certify that this Certificate of C Documentation Author Name: Company: Address: City/State/Zip: RESPONSIBLE PERSON'S DECLARA I certify the following under pena 1. The information provided on th 2. I am eligible under Division 3 o Compliance (responsible design 3. The energy features and perfor Certificate of Compliance confe 4. The building design features or compliance documents, works! 5. I will ensure that a completed s to the enforcement agency for	Declarement enue, Pleasanton, CA 94566 DECLARATION STATEMENT Compliance documentation is accurate and Chahan Shah Cypress Engineering Group 8 Harris Court, Suite A8 Monterey, CA 93940 ATION STATEMENT alty of perjury, under the laws of the State this Certificate of Compliance is true and co of the Business and Professions Code to acc gner) rmance specifications, materials, compone form to the requirements of Title 24, Part 1 r system design features identified on this sheets, calculations, plans and specification signed copy of this Certificate of Complian r all applicable inspections. I understand th ovides to the building owner at occupancy. Metin Serttunc	complete. Docur Signal CEA/ Phone of California: orrect. cept responsibility ents, and manufae L and Part 6 of the Certificate of Com ns submitted to the ceshall be made nat a completed si Responsion	Report Page: Date Prepared: Date Prepared: unentation Author Signature: ture Date: HERS Certification Identificat e: for the building design or s ctured devices for the building California Code of Regulation opliance are consistent with e enforcement agency for a available with the building p gned copy of this Certificate insible Designer Signature: Signed:	Chohan . S. Ste 6/18/21 ion (if applicable): 8312181802 eystem design identified on ng design or system design ons. the information provided pproval with this building p permit(s) issued for the bui e of Compliance is required	this Centrific on other permit a ilding, and



#### **GENERAL CONSTRUCTION NOTES** CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK. CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT. 6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES. CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK. 9. CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS. 10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. 11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE. 12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED. 13. ALL 120/277V LIGHT SWITCHES AND WALL OCCUPANT SENSORS SHALL HAVE A NEUTRAL INSTALLED TO THE DEVICE BOX EXCEPT WHERE A CONDUIT OR SURFACE RACEWAY SYSTEM IS INSTALLED. 14. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS. 15. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED

16. FROM ALL NEW FLUSH MOUNT PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.

CEILINGS.

- 17. CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING CLOCK. DATA, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.
- 18. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
- 19. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT WHERE POSSIBLE.
- . WHERE IT IS NOT POSSIBLE TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- 21. EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
- 22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
- 23. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- 24. WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.
- 25. ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ARCHITECT BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ARCHITECT WILL BE MADE.

# **GENERAL DEMOLITION NOTES**

Α.	CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTR TO BE REMOVED AS DICTATED BY THE REQUIREMENTS
В.	REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, S THE PLANS AND AS REQUIRED BY THESE DEMOLITION N
C.	RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEM REMAINING WALLS MAY BE ABANDONED IN PLACE. REM
D.	RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEM
E.	WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICAT BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIX
F.	ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL RELIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERFOPERATION.
G.	ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOS MATERIAL.
H.	NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUS
I.	EXISTING REMAINING CONCEALED RACEWAYS MAY BE REQUIREMENTS OF THE SPECIFICATION FOR NEW WOR
J.	EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW W THE SPECIFICATION FOR NEW WORK, MEET THE REQUIN COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK
K.	FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN M AND WIRING, PLUG OPENING AND PROVIDE AND INSTAL
L.	EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE
M.	WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FOR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVE CONTRACTOR SHALL COORDINATE WITH OWNER OR HIS WIRING DESIGNATED FOR REMOVAL OR PRESERVATION OR WIRING BY ELECTRICAL CONTRACTOR.
N.	COORDINATE WITH OWNER PRIOR TO START OF DEMOL MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS

RICAL DEMOLITION AND QUANTITIES OF ELECTRICAL S OF THE PROJECT.

SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON NOTES. MOLISHED WHICH ARE CONCEALED IN EXISTING

MOVE WIRING FROM CONDUIT.

MOLISHED WHICH ARE EXPOSED SHALL BE REMOVED. ATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING XTURE OR PANEL.

MAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, OR MADE INOPERATIVE DURING DEMOLITION. RUPTED OR DISCONNECTED CIRCUITS TO

DSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND

JSED AS PART OF NEW WORK, U.O.N.

REUSED FOR NEW WORK PROVIDED THEY MEET ALL

NORK PROVIDED THEY MEET ALL REQUIREMENTS OF REMENTS OF THE CURRENT C.E.C. FOR VOLUME AND

MAY BE ABANDONED IN PLACE. REMOVE DEVICES ALL A BLANK DEVICE PLATE.

PLANS AND IS ASSUMED TO BE CORRECT. L CONDITIONS AND MAKE ADJUSTMENTS TO SUIT CONTRACT DOCUMENTS.

FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS ED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL IS REPRESENTATIVE TO HAVE EQUIPMENT AND N PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT

LITION TO MINIMIZE POWER INTERRUPTIONS, WORK S HOURS. COORDINATE IN WRITING WITH OWNER

			ELECTRIC	CAL SI	YMBOLS & ABBREVIATI	IONS					
			SYMBOLS & ABBREVIATIONS SHOW	VN ARE FOR G	GENERAL USE. DISREGARD THOSE WHICH DO NOT	APPEAR ON	THE PLANS.				
0	FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE	•	SECURITY DOOR CONTACTS		PANELBOARD - FLUSH MOUNTED EQUIPMENT PANEL - FLUSH MOUNTED	2-0	DETAIL NOTE REFERENCE SEE ASSOCIATED NOTE	CE SYMBOL ON SAME DET		ETAIL NUMBER	TION REFERENCE
•	EMERGENCY OR NIGHT LIGHT	HMD→	SECURITY MOTION DETECTOR	_	PANELBOARD - SURFACE MOUNTED				E3.0 K SH		
⊢-0	STRIP FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE	HSC⊲	CCTV CAMERA	7777	EQUIPMENT PANEL - SURFACE MOUNTED	F301	FEEDER DESIGNATION; SEE ASSOCIATED NOTE	ON SAME DET		DICATES QUA	NTITY OF TELEPHONE OU
	LUMINAIRE - RECESSED - SEE SCHEDULE	<b>H</b> KP	SECURITY SYSTEM KEYPAD	<b>∭</b> -3	METER W/ CURRENT TRANSFORMER	ABBRF	VIATIONS		\ <b>∠</b> ∕ <b>≮</b> IN	DICATES QUA	NTITY OF DATA OUTLETS
$\rightarrow$	RECESSED WALL WASHER	Η•	DOOR BELL PUSHBUTTON	@/Ю	JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES	A	AMPERE	GFCI	GROUND FAULT	NTS	NOT TO SCALE
0	LUMINAIRE - SURFACE MOUNTED -	Нсн	DOOR CHIME WITH LED	Ń	MOTOR CONNECTION	-	ABOVE FINISHED FLOOR	GFI GND, G		OAH OC	OVERALL HEIGHT ON CENTER
•••	SEE SCHEDULE LUMINAIRE - POLE OR POST MOUNTED -	Ф	RECEPTACLE - DUPLEX *	C	NON-FUSED DISCONNECT SWITCH	ARCH AWG	ARCHITECT AMERICAN WIRE GAUGE	GRS HT	GALVANIZED RIGID STEEL HEIGHT	OH PA PB	OVERHEAD PUBLIC ADDRESS PULL BOX
-	SEE SCHEDULE	<b>Ø</b>	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	Ľ	FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFGR'S NAMEPLATE DATA	BKR C CATV	BREAKER CONDUIT CABLE TV	IC IDF	INTERCOM INTERMEDIATE DISTRIBUTION FRAME	PF PH	POWER FACTOR PHASE
ю	LUMINAIRE - WALL MOUNTED SEE SCHEDULE	Ф	GFCI CONVENIENCE RECEPTACLE - DUPLEX*	_	COMBINATION STARTER/FUSED DISCONNECT SWITCH;	CB CCTV	CIRCUIT BREAKER CLOSED CIRCUIT TV	INCAND JB	INCANDESCENT JUNCTION BOX	PIR PNL PV	PASSIVE INFRARED PANEL PHOTOVOLTAIC
-•	BOLLARD OR PATH LIGHT - SEE SCHEDULE	Ö	GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT	<b>∑</b>	FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA	CKT	CIRCUIT CENTER LINE	KV KVA	KILOVOLT KILOVOLT AMPERES	PVC	POLYVINYL CHLORIDE
<b>Š</b>	EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE	#	RECEPTACLE DOUBLE DUPLEX *	$\boxtimes$	MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED	CLG C.O. CTR	CEILING CONDUIT ONLY CENTER	KW LCP	KILOWATT LIGHTING CONTROL PANEL	PWR (R) (RP)	POWER EXISTING TO BE REMO ^V REMOVABLE POLE
$\frac{\diamond \diamond \diamond}{\bullet}$	TRACK LIGHTING - SEE SCHEDULE	<b>Ø</b>	HALF SWITCHED DUPLEX RECEPTACLE *		CIRCUIT BREAKER	D	DIMMER	LTG LV	LIGHTING LOW VOLTAGE	( )	S RECEPTACLES REQUIRED
	EMERGENCY LIGHT	Φ̈́	SINGLE RECEPTACLE *	<b>●</b> – ।··	GROUND ROD WITH GROUNDWELL BOX	DIST (E)	DISTRIBUTION EXISTING	KCM	THOUSAND CIRCULAR MILS	REQMT SHT	'S REQUIREMENT(S) SHEET
$\bigcirc$	DIGITAL DUAL TECHNOLOGY OCC. SENSOR	φ.	DUPLEX RECEPTACLE - CEILING MOUNTED	• I+- 	GROUND ELECTRODE NORMALLY OPEN CONTACT	EC (FL)	ELECTRICAL CONTRACTC EVENING LIGHT	R M.B. MCA	MAIN CIRCUIT BREAKER MINIMUM	SLD STC	SINGLE LINE DIAGRAM SYSTEMS TERMINATIO
<-	LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED	т Ф ^{нс}	LETTER INDICATES DUPLEX HALF	⊢ //	NORMALLY CLOSED CONTACT	EM EMT	EMERGENCY ELECTRICAL	MDF MECH	CIRCUIT AMPS MAIN DISTRIBUTION FRA MECHANICAL	ME SW SWBD	CABINET SWITCH SWITCHBOARD
DRC	DIMMER ROOM CONTROLLER	п Ф ^с			TRANSFORMER - SEE SINGLE LINE FOR SIZE	EQUIP	METALLIC TUBING EQUIPMENT	MH MLO	MECHANICAL METAL HALIDE MAIN LUGS ONLY	ТТВ	TELEPHONE TERMINAL BACKBOARD
PC	PLUG LOAD CONTROLLER	Ψ	LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *		PULLBOX	EV FA	ELECTRICAL VEHICLE FIRE ALARM	MPOE MTD	MAIN POINT OF ENTRANC	UON	TYPICAL UNLESS OTHERWISE N
RC	ROOM LIGHTING CONTROLLER	•	FLOOR MOUNTED DUPLEX RECEPTACLE	$\bigcirc \frown$	FLEX CONDUIT WITH CONNECTION		FIRE ALARM CONTROL PANEL	MTG MOCP	MOUNTING MAXIMUM OVER CURRENT PROTECTION	UG V VD	UNDERGROUND VOLT VOLTAGE DROP
LCP	LIGHTING CONTROL PANEL		FLOOR MOUNTED BOX	,	CONDUIT - UP	FC FIN FI	FOOT CANDLE FINISH FLOOR	(N) NIC	NEW NOT IN CONTRACT	W W/	WATT
	DIGITAL DAYLIGHT SENSOR	Ϋ́	POWER OUTLET - SEE PLANS FOR NEMA TYPE $\star$	•	CONDUIT - DOWN	FLA FLUOR	FULL LOAD AMPS FLUORESCENT	NIEC	NOT IN ELECTRICAL CONTRACT	WP XFMR	WEATHERPROOF TRANSFORMER
\$	SINGLE POLE SWITCH **			— E —	CONDUIT EMERGENCY SYSTEM	(F)	FUTURE GENERAL CONTRACTOR	(NL) NO.	NIGHT LIGHT NUMBER		
<b>\$</b> a	SINGLE POLE SWITCH, ** a = CIRCUIT CONTROLLED	$\nabla$ $\mathbf{\nabla}^{[#]}$	WALL TELEPHONE OUTLET **	— LV —	LOW VOLTAGE WIRING	<u>FIRE A</u>	LARM	NOM	NOMINAL		
<b>\$</b> 3	THREE WAY SWITCH **	<b>⊻</b> ^[#]	VOICE/DATA WALL OUTLET * VOICE/DATA OUTLET MOUNTED ABOVE	///////////////////////////////////////	SURFACE METAL OR NON-METALLIC RACEWAY	NOTE: SE	E FIRE ALARM DRAWINGS	FOR QUANTITIE	ES AND MOUNTING HEIGHT	S.	
<b>\$</b> 4	FOUR WAY SWITCH**	▼ ▼ ^[#]	COUNTER - FIELD VERIFY HEIGHT		CONDUIT - CONCEALED IN WALLS OR CEILING	P MA	NUAL PULL STATION		MOKE DETECTOR	APS A	UXILIARY POWER SUPPLY
<b>\$</b> м	MANUAL MOTOR STARTER		SURFACE MOUNTED VOICE/DATA WALL OUTLET *		CONDUIT - EXISTING	X STF	ROBE ONLY	S S TAMPEF	RSWITCH	FSA F	IRE SYSTEM ANNUNCIATO
\$к Ф	KEY OPERATED SWITCH **	<b>▲</b>	MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN.	Д но	RN ONLY				
(\$) [\$]	LIGHTING DIMMER ** DIGITAL ON/OFF SWITCH **	-\$	WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED	E	CAPPED OR STUB-OUT CONDUIT	$\Box$		FLOW S			TRE ALARM TRANSPONDE OR TRANSMITTER
<b>₩</b>	DIGITAL DIMMER SWITCH **	-\$-	WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT	<b>\$</b>	CONDUIT CONTINUATION	MIN	NI HORN		DICATING VALVE	ESR E	ELEVATOR STATUS/RECAL
<b>\$</b>	DIGITAL MULTI SCENE LIGHTING SWITCH **	<b>*</b> ^[#]	VOICE/DATA OUTLET - FLOOR MOUNTED	#10	CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH	М но	RN/STROBE	FIRE SM	IOKE DAMPER	FAC F	IRE ALARM COMMUNICAT
<b>\$</b> s	DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR <b>**</b>	$\bar{\Psi}$	TV OUTLET *	$\sim$	CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS	О СНІ	IME/STROBE	S BELL (G	ONG)	ANN F	REMOTE ANNUNCIATORS
\$	WALL OCCUPANCY SENSOR **	<b>(</b> [#] )	VOICE/DATA OUTLET - CEILING MOUNTED		AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE		-		ARM CONTROL PANEL		ND OF LINE
▲ 2	DOUBLE SWITCHED WALL OCCUPANCY SENSOR <b>**</b>	S	INTERIOR SPEAKERS CEILING MOUNTED		SIZE OTHER THAN #12 AWG.		_				
	DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **	нS	INTERIOR SPEAKERS WALL MOUNTED	$\left< \frac{2}{2} \right>$	SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET						TO BOTTOM OF BOX, U. TO TOP OF BOX, U.O.N.
<b>(</b> )2	2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **	Ю	CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION	3	SCHEDULE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET	CO MO	RBON NOXIDE ALARM			[#] NUMBER	IN BRACKETS DENOTES NU DROPS WHEN MORE THA

# **EQUIPMENT ANCHORAGE**

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 & 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED(e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 120 / 220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FELXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED 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 OF 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 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED 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 HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E) MP IMD PP IE - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DFTAILS.

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

# LIGHT FIXTURE SCHEDULE

### FIXTURE NOTES:

1. ALL LED LIGHT FIXTURE DRIVERS SHALL BE ELECTRONIC TYPE, 10% TOTAL HARMONIC DISTORTION MAXIMUM.

- 2. ALL LED LIGHT MODULES SHALL BE ENERGY SAVING 3500° K, 80 CRI MINIMUM, U.O.N. (SEE SPECIFICATIONS FOR MORE INFORMATION).
- ALL LED DRIVERS (AND ASSOC. FIXTS.) SHALL HAVE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS AND REQUIREMENTS, WHERE SUCH ARE USED IN CONDITIONED SPACES.
- 4. EXIT SIGNS, EMERGENCY LIGHTS AND LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL SUPPLY A MINIMUM DURATION OF 90 MINUTES OF POWER IN THE EVENT OF A POWER OUTAGE/FAILURE.
- ALL RECESSED LIGHT FIXTURES SHALL BE U.L. APPROVED FOR ZERO CLEARANCE INSULATION COVER WHEN INSTALLED IN INSULATED CEILINGS.

TYPE	DESCRIPTION	LAMPS	MANUFACTURER
XAE	16%" W x 10" H x 12¾" DEEP WALL PACK LED FIXTURE WITH BOROSILICATE GLASS DOOR, WIRE GUARD OPTION, EMERGENCY BATTERY BACK-UP OPTION, WET LABEL, 277V. FINISH PER ARCHITECT.	32W LED 4160 LUMENS 4000K	COOPER LIGHTING LUMARK LDWP-GL SERIES

# **APPLICABLE CODES & STANDARDS**

### CODES:

- 1. 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
- 2. 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL, 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
- 3. 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
- 4. 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE

2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.

- 5. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018
- UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS. 6. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
- 7. 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018
- INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 9. 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
- 10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

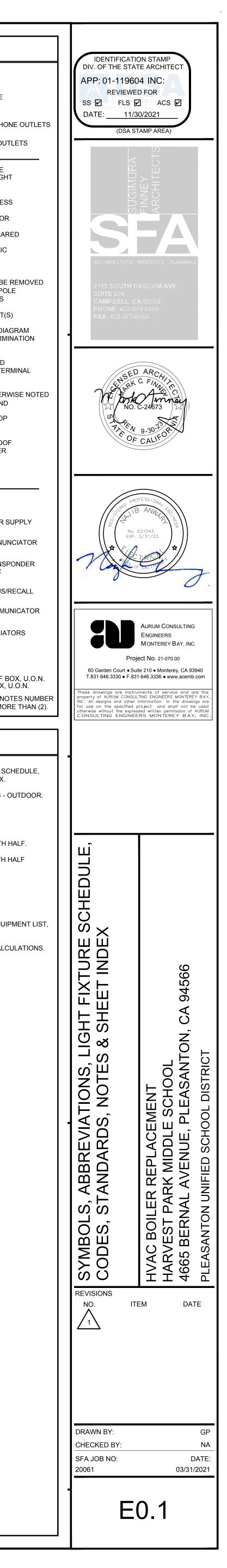
11. NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

#### STANDARDS:

- 1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- 2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- 3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- 4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- 5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- 6. UNDERWRITER LABORATORIES (UL)
- 7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

### SHEET INDEX E0.1 SYMBOLS, ABBREVIATIONS, LIGHT FIXTURE SCHEDULE, CODES, STANDARDS, NOTES & SHEET INDEX. E0.2 CALIFORNIA ENERGY COMPLIANCE TITLE 24 - OUTDOOR E1.1 PANELBOARD SCHEDULES. E2.1 ELECTRICAL SITE PLAN. E3.1 ELECTRICAL DEMOLITION PLAN - GYM NORTH HALF. E3.2 ELECTRICAL DEMOLITION PLAN - GYM SOUTH HALF E4.1 ELECTRICAL PLAN - GYM NORTH HALF E4.2 ELECTRICAL PLAN - GYM SOUTH HALF E6.1 ELECTRICAL DETAILS. FA0.1 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES. FA1.1 FIRE ALARM RISER DIAGRAM & BATTERY CALCULATIONS FA2.1 FIRE ALARM SITE PLAN. FA4.1 FIRE ALARM PLAN - GYM NORTH HALF.

FA4.2 FIRE ALARM PLAN - GYM SOUTH HALF.



NRCC-LTO-E (Cre CERTIFICATE				······································									California e		NRCC-LT
					iance v	with re	equiremen	ts in §	<u>§110.9, §130.0,</u>	<u>§130.2, §140.7,</u> ar		outdoor lighting s	copes using	g the pre	
roject Name roject Addre		HVAC Boiler R 1900 Valley A	·		n CA 9	4566					t Page: Prepared:			1	Page 1 06/22/2
. GENERAI		ORMATION													
01 Project	Locat	tion (city)					Pleasa	nton		04 Total Illumi	nated Hardscape A	rea (ft ² )		1,572	
02 Climate							12								
		iting Zone per v - Undevelop					or as desig oderate - R			Having Jurisdiction	(AHJ): /lust be reviewed k	W CA Energy Com	mission for	Approv	
	-	veloped Park							Urban Areas		viust be revieweu t	Jy CA Ellergy Colli		Appiov	aı
3. PROJECT	SCO	PE								· ·					
able Instruc	tions:	: Include any		-		tems t	that are wi	ithin t	the scope of the	e permit application	n and are demonst	rating compliance	using the	prescript	tive path
outlined in <u>§</u> Ny project c		or <u>§141.0(b)</u>	<u>2L</u> for a	alterati	ons.										
viy project c	0115151	01									02				
New Lig		-							Allowances fro				-		-
✓ Altered	Lighti	ing System 03				ls y	our alterat	tion ir	ncreasing the c	onnected lighting l	oad (Watts)?	C	O Yes	(	⊙ No
% of E	xistin	ig Luminaires	Being	Altered	d1	S	Sum Total c	of Lun		Added or Altered		Calculatio			
✓ < 10%		≥ 10% and <	-		50%				4						
FOOTNOTES	S: % o	f Existing Lun	ninaire	es Being	g Altere	ed = (S	Sum Total o	of Lun	ninaires Being	Added or Altered /	Existing Luminaire	s within the Scope	of the Per	mit Appl	lication) x 100
C. COMPLIA				· · · · ·											
able Instruc					-					h Exceptional Cond	itions" refer to Tab				
01		02		llowed	Lightir	ig POV	04	>) <u>914</u>	10.7 or <u>§141.0(</u> 05	06	07	Complian 08	ce Results		09
General		Per		Sales					Per Specific	Existing					
Hardscape Allowance	+	Application		Fronta	ge	+	rnamental 140.7(d)2	+	Area O	R Power =	Total Allowed	≥ Total Act		07 M	ust be≥08
§140.7(d)1		<u>§140.7(d)2</u>	5	<u>§140.7(</u>	<u>d)2</u>	21	<u>140.7(u/2</u>		<u>§140.7(d)2</u>	<u>§141.0(b)2L</u>	(Watts)	(Watts	5)	07141	
(See Table I)		(See Table J)	(S	See Tab	le K)	(Se	ee Table L)	(5	See Table M)	(See Table N)		(See Tab	le F)		
	+		+			+	<u> </u>	+	0	R200=Table G for Details		≥ 128	plicable	CO	MPLIES
A Building Er	iergy E	Efficiency Stand	lards - 3	2019 Nc	onresido	ential C				Table H for Details					January 2
tate of califo Dutdoor	DRNIA Ligh	iting	lards - :	2019 Nc	onreside	ential C									Ser 2
TATE OF CALIFO Dutdoor IRCC-LTO-E (Cre	DRNIA <b>Ligh</b> eated 0	<b>iting</b>	lards - :	2019 Nc	onreside	ential C						(	CALIFORNIA E	NERGY CO	
TATE OF CALIFO Dutdoor RCC-LTO-E (Cre CERTIFICATE roject Name	DRNIA Ligh OF CO e: F	<b>Iting</b> ^{01/21)} OMPLIANCE IVAC Boiler R	eplace	ement						a.gov/title24/2019st	andards t Page:	(	CALIFORNIA E	NERGY CO	MMISSI19 NRCC-LT Page 4
TATE OF CALIFO Dutdoor RCC-LTO-E (Cre CERTIFICATE roject Name	DRNIA Ligh OF CO e: F	nting ^{01/21)} OMPLIANCE	eplace	ement						a.gov/title24/2019st	andards	(	CALIFORNIA E	NERGY CO	MMISSI19 NRCC-LT Page 4
TATE OF CALIFO Dutdoor RCC-LTO-E (Cre ERTIFICATE roject Name	DRNIA Ligh OF CO e: F	<b>Iting</b> ^{01/21)} OMPLIANCE IVAC Boiler R	eplace	ement						a.gov/title24/2019st	andards t Page:	05	CALIFORNIA E		MMISSI19 NRCC-LT Page 4
TATE OF CALIFO Dutdoor RCC-LTO-E (Cre ERTIFICATE roject Name roject Addre	DRNIA Ligh eated 0 OF CC e: F ess: 4	<b>Iting</b> ^{01/21)} OMPLIANCE IVAC Boiler R	eplace ve. Ple	ement easanto	n CA 9	4566		: <u>http:</u>		a.gov/title24/2019st Repor Date F	andards t Page: Prepared:				MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect
TATE OF CALIFO Dutdoor IRCC-LTO-E (Cre CERTIFICATE Project Name roject Addre 01 Name or Ito Tag	DRNIA Ligh eated 0 OF CC e: F ess: 4 em	oting DMPLIANCE HVAC Boiler R 1900 Valley A	eplace ve. Ple	ement easanto Comple	n CA 9 te Lum	4566 02 ninaire	Compliance:	: <u>http:</u>	://www.energy.c	Repor Date P 03 Watts per luminaire ^{1,2}	andards t Page: Prepared: 04 How Wattage is	05 # of Luminaires	06		MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect
TATE OF CALIFO Dutdoor IRCC-LTO-E (Cre CERTIFICATE Project Name Project Addre 01 Name or Ito Tag NoTES: Sel X: Luminair	DRNIA Ligh eated 0 OF CC e: H ess: 4 em ection e is lig	nting DMPLIANCE HVAC Boiler R 1900 Valley A ns with a * re ghting a statu	eplace ve. Ple ( quire a <i>e; EXC</i>	ement easanto Comple a note i	n CA 9 te Lum	4566 02 ninaire	Compliance: e Description below exp	: <u>http:</u>	://www.energy.c	a.gov/title24/2019st Repor Date P 03 Watts per	andards t Page: Prepared: 04 How Wattage is	05 # of Luminaires	06		MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect
TATE OF CALIFO Dutdoor NRCC-LTO-E (Cree CERTIFICATE Project Name Project Addre 01 Name or Ito Tag * NOTES: Sel	DRNIA Ligh eated 0 OF CC e: H ess: 4 em ection e is lig	nting ^{D1/21)} DMPLIANCE HVAC Boiler R 1900 Valley A 1900 Valley A	eplace ve. Ple ( quire a <i>e; EXC</i>	ement easanto Comple a note i	n CA 9 te Lum	4566 02 ninaire	Compliance: e Description below exp	: <u>http:</u>	://www.energy.c	Repor Date P 03 Watts per luminaire ^{1,2}	andards t Page: Prepared: 04 How Wattage is	05 # of Luminaires	06		NRCC-LT Page 4 06/22/2 07 Field Inspect
TATE OF CALIFO Dutdoor IRCC-LTO-E (Cre CERTIFICATE Project Name Project Addre 01 Name or Ito Tag * NOTES: Sel EX: Luminair Existing	PRNIA Ligh eated 0 OF CC e: H ess: 4 em ection e is lig	nting DMPLIANCE TVAC Boiler R 1900 Valley A 1900 Valley A ns with a * re phing a statu Wattage is per chority Having	eplace ve. Ple quire a e; EXC r as-bu	ement easanto Comple a note i <i>CEPTION</i> uilts.	n CA 9 te Lum in the s V 2 to <u>s</u> may as	4566 02 ninaire space I <u>§130.2</u> sk for L	Compliance: e Description below exp 2(b).	: http: on lainin cut sh	://www.energy.c	Repor Date P 03 Watts per luminaire ^{1,2}	andards t Page: Prepared: 04 How Wattage is determined compliance per §1	05 # of Luminaires Being Replaced ²	06 Existing V	Watts _	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fa
TATE OF CALIFO PRCC-LTO-E (Cre CERTIFICATE roject Name roject Addre 01 Name or Ito Tag NOTES: Sel X: Luminaire FOOTNOTES For linear lu uminaires.	PRNIA Ligh eated 0 OF CC e: F ess: 4 em ection e is lig S: Aut	nting DMPLIANCE TVAC Boiler R 1900 Valley A 1900 Valley A	eplace ve. Ple quire a e; EXC r as-bu Jurisco shoul	ement easanto Comple a note i <i>CEPTION</i> uilts. <i>diction r</i> <i>ld be inc</i>	n CA 9 te Lum in the s V 2 to <u>s</u> may as dicated	4566 02 ninaire space I §130.2 sk for L d as W	Compliance: e Description below exp 2(b). Luminaire of V/If instead	: <u>http:</u> on lainin cut sh	://www.energy.c	a.gov/title24/2019st Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved.	andards t Page: Prepared: 04 How Wattage is determined compliance per §1	05 # of Luminaires Being Replaced ²	06 Existing V	Watts _	MMISSI19 NRCC-LT Page 4 06/22/2 Field Inspect Pass Fa
TATE OF CALIFO Dutdoor RCC-LTO-E (Cre CERTIFICATE roject Name roject Addre 01 Name or Ite Tag NOTES: Sel X: Luminaire FOOTNOTES For linear lu uminaires.	PRNIA Ligh Pated 0 OF CC P: H Pess: 4 em ection e is lig S: Aut umina	nting DMPLIANCE IVAC Boiler R 1900 Valley A 1900 Valley A Nor Requires, wattage	eplace ve. Ple quire a e; EXC r as-bu g Jurisco shoul RED C	ement easanto Comple a note i <i>CEPTION</i> uilts. diction r Id be ind	n CA 9 te Lum in the s V 2 to <u>s</u> may as dicated	4566 02 ninaire space I §130.2 sk for L d as W	Compliance: e Description below exp 2(b). Luminaire of V/If instead	: http: on lainin cut sh d of W	://www.energy.c	a.gov/title24/2019st Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved. n wattage used for Total linear feet j	andards t Page: Prepared: O4 How Wattage is determined compliance per §1 for the luminaire sh	05 # of Luminaires Being Replaced ²	06 Existing V	Watts	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fa ad of numbe
TATE OF CALIFO Dutdoor RCC-LTO-E (Cre CERTIFICATE roject Name roject Addre 01 Name or Ite Tag NOTES: Sel X: Luminaire FOOTNOTE: For linear lu uminaires. D. DECLARA Table Instruc	DRNIA Ligh eated 0 OF CC :	nting DMPLIANCE TVAC Boiler R 1900 Valley A 1900 Valley A 190	eplace ve. Ple quire a e; EXC r as-bu g Jurisco shoul RED C ave be	ement easanto Comple a note i <i>CEPTION</i> uilts. diction r Id be ind	n CA 9 ite Lum in the s V 2 to <u>s</u> may as dicated <b>CATES</b> de base	4566 02 ninaire space I §130.2 sk for L d as W	Compliance: e Description below exp 2(b). Luminaire of V/If instead	: http: on lainin cut sh f of W TION	://www.energy.co	a.gov/title24/2019st Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved.	andards t Page: Prepared: O4 How Wattage is determined compliance per §1 for the luminaire sh	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated	06 Existing \ in column	Natts 05 inste	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fa ad of numbe
TATE OF CALIFO RCC-LTO-E (Cre ERTIFICATE roject Name roject Addre 01 Name or Ito Tag NOTES: Sel X: Luminaire FOOTNOTES For linear lu uminaires. D. DECLAR/ Table Instruct Table E. Addi	DRNIA Ligh eated 0 OF CC : F ess: 4 em ection e is lig S: Aut umina tions: itiona	nting DMPLIANCE TVAC Boiler R 1900 Valley A 1900 Valley A	eplace ve. Ple ( quire a e; EXC r as-bu y Jurisc shoul RED C ave be nese du	ement easanto comple a note i <i>CEPTION</i> uilts. diction r diction r diction r diction r	n CA 9 te Lum in the s V 2 to <u>s</u> dicated <b>CATES</b> de base nts mu	4566 02 ninaire space I §130.2 sk for L d as W 6 <b>OF II</b> ed on I st be p	Compliance: e Description below exp 2(b). Luminaire of V/lf instead INSTALLAT information provided to	: http: on lainin cut sh d of W TION	://www.energy.co	Reportible 24/2019st Reportion Date P 03 Watts per luminaire ^{1,2} nce is achieved.	andards t Page: Prepared: O4 How Wattage is determined compliance per §1 for the luminaire sh	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated	06 Existing \ in column	Natts 05 inste please e. nergy.ca	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fa ad of number xplain why inter 1.gov/
TATE OF CALIFO RCC-LTO-E (Cre ERTIFICATE roject Name roject Addre 01 Name or Ito Tag NOTES: Sel X: Luminaire FOOTNOTES For linear lu uminaires. D. DECLAR/ Table Instruct Table E. Addi	PRNIA Ligh Pated 0 OF CC E: H Ess: 4 Perm Pection Pection Period S: Aut Umina Content Period Content Period	nting DMPLIANCE TVAC Boiler R 1900 Valley A 1900 Valley A	eplace ve. Ple ( quire a e; EXC r as-bu y Jurisc shoul RED C ave be nese du	ement easanto comple a note i <i>CEPTION</i> uilts. diction r diction r diction r diction r	n CA 9 te Lum in the s V 2 to <u>s</u> dicated <b>CATES</b> de base nts mu	4566 02 ninaire space I §130.2 sk for L d as W 6 <b>OF II</b> ed on I st be p	Compliance: e Description below exp 2(b). Luminaire of V/lf instead INSTALLAT information provided to	: http: on lainin cut sh d of W TION	://www.energy.co	Reportible 24/2019st Reportion Date P 03 Watts per luminaire ^{1,2} nce is achieved.	andards t Page: Prepared: O4 How Wattage is determined compliance per §1 for the luminaire sh	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated	06 Existing \ in column	Natts 05 inste please e. nergy.ca	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fa ad of number xplain why in n.gov/ Id Inspector
TATE OF CALIFO RCC-LTO-E (Cre ERTIFICATE roject Name roject Addre 01 Name or Ite Tag NOTES: Sel X: Luminaire Existing FOOTNOTES For linear lu uminaires. D. DECLARA Table Instruct Table E. Addi itle24/2019 YES	DRNIA Ligh eated 0 OF CC : F ess: 4 em ection e is lig S: Aut umina	hting p1/21) OMPLIANCE IVAC Boiler R 1900 Valley A 1900 Valley A wattage is per- thority Having thority Having ires, wattage N OF REQUI Selections h I Remarks. The ards/2019_colored 10	eplace ve. Ple ( quire a e; EXC r as-bu g Jurisco shoul RED C ave be hese do mplia	ement easanto Comple a note i <i>CEPTION</i> uilts. diction r Id be ind <b>ERTIFI</b> cen mad	n CA 9 ate Lum in the s V 2 to <u>s</u> dicated <b>CATES</b> de base nts mu ocumen	4566 02 ninaire space I §130.2 sk for L d as W	Compliance: e Description below exp 2(b). Luminaire of V/If instead	: http: on lainin cut sh d of W TION on pro o the k ial_Do	://www.energy.co	Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved. n wattage used for . Total linear feet j	andards t Page: Prepared: O4 How Wattage is determined compliance per §1 for the luminaire sh	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated	06 Existing \ in column	Natts 05 inste please e. nergy.ca Fie Pass	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fa ad of number xplain why in 1.gov/ Id Inspector 5 Fail
TATE OF CALIFO RCC-LTO-E (Cre ERTIFICATE roject Name roject Addre 01 Name or Ito Tag NOTES: Sel X: Luminaire FOOTNOTES For linear lu uminaires. D. DECLAR/ Table Instruct Table E. Addi itle24/2019 YES Q	DRNIA Ligh eated 0 OF CC : F ess: 4 em ection citions: itional standa N C	hting DMPLIANCE TVAC Boiler R 1900 Valley A 1900 Valley A 190	eplace ve. Ple ( quire a <i>e; EXC</i> r as-bu <i>g Jurisco</i> <i>s shoul</i> <b>RED C</b> <i>ave be</i> <i>hese do</i> <i>mplia</i>	ement easanto Comple a note i <i>CEPTION</i> uilts. diction r Id be ind <b>ERTIFI</b> een mad locumer ince_do	n CA 9 In CA 9 In the s V 2 to <u>s</u> dicated <b>CATES</b> de base nts mu ocumen	4566 02 ninaire space I §130.2 sk for L d as W S OF II ed on I st be p nts/No	Compliance: e Description below exp 2(b). Luminaire of V/If instead INSTALLAT information provided to provided to	: http: on lainin cut sh f of W TION on pro o the l cal_Do build	://www.energy.co	Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved. n wattage used for . Total linear feet j	andards t Page: Prepared: O4 How Wattage is determined compliance per §1 for the luminaire sh cument. If any selection and can be for	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated ection needs to be und online at <u>http</u>	06 Existing \ in column c changed, j	Natts Natts O5 inste please e. nergy.ca Fie Pass	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fa ad of number xplain why in n.gov/ Id Inspector
TATE OF CALIFO PUTDOE (Cre ERTIFICATE roject Name roject Addre 01 Name or Ite Tag NOTES: Sel X: Luminaire Existing FOOTNOTES For linear lu uminaires. D. DECLARA Table Instruct Table E. Addi itle24/2019 YES	DRNIA Ligh eated 0 OF CC : F ess: 4 em ection e is lig S: Aut umina	hting p1/21) DMPLIANCE IVAC Boiler R 1900 Valley A 1900 Valle	eplace ve. Ple ve. Ple quire a e; EXC r as-bu gurisco shoul RED C ave be nese du mplia TO-01 TO-01	ement easanto Comple a note i <i>CEPTION</i> uilts. diction r Id be ind <b>ERTIFI</b> een mad locumer ince_do	n CA 9 ite Lum in the s V 2 to <u>4</u> may as dicated <b>CATES</b> de base nts mu ocuments ist be s	4566 02 ninaire space I §130.2 sk for L d as W S OF II ed on I st be p nts/No	Compliance: e Description below exp 2(b). Luminaire of V/If instead INSTALLAT information provided to provided to	: http: on lainin cut sh f of W TION on pro o the l cal_Do build	://www.energy.co	Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved. n wattage used for . Total linear feet j us tables of this do tor during construct // m/Title	andards t Page: Prepared: O4 How Wattage is determined compliance per §1 for the luminaire sh cument. If any selection and can be for	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated ection needs to be und online at <u>http</u>	06 Existing \ in column c changed, j	Natts 05 inste please e. nergy.ca Fie Pass	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fa ad of number xplain why in 1.gov/ Id Inspector 5 Fail
ATE OF CALIFO RCC-LTO-E (Cre ERTIFICATE roject Name roject Addre 01 Name or Ite Tag NOTES: Sel X: Luminaire FOOTNOTES For linear luminaires. D. DECLARA Table Instruct Table E. Addit tile24/2019 YES ©	DRNIA Ligh eated 0 OF CC : F ess: 4 em ection e is lig S: Aut umina S: Aut umina ATION tions: itional itional	hting p1/21) DMPLIANCE IVAC Boiler R 1900 Valley A 1900 Valle	eplace ve. Ple quire a e; EXC r as-bu g Jurisco shoul RED C ave be hese du mplia TO-01 TO-01	ement easanto Comple a note i CEPTION uilts. diction r ld be ind cen mad coumer ince_do	n CA 9 ite Lum in the s V 2 to <u>4</u> may as dicated <b>CATES</b> de base nts mu scumer	4566 02 ninaire space I §130.2 sk for L d as W 5 OF II ed on I st be p nts/No submit submit	Compliance: e Description below exp 2(b). Luminaire of V/lf instead INSTALLAT information provided to provided to	: http: i http: on lainin cut sh d of W TION on pro o the k on pro o the k al_Do	://www.energy.co	Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved. n wattage used for . Total linear feet j us tables of this do tor during construct // m/Title	andards t Page: Prepared: O4 How Wattage is determined compliance per §1 for the luminaire sh cument. If any selection and can be for	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated ection needs to be und online at <u>http</u>	06 Existing \ in column c changed, j	Natts Natts O5 inste please e. nergy.ca Fie Pass	MMISSI19 NRCC-LT Page 4 06/22/2 Field Inspec Pass Fa ad of number xplain why in 1.gov/ Id Inspector 5 Fail
ATE OF CALIFO RCC-LTO-E (Cre ERTIFICATE roject Name roject Addre 01 Name or Ito Tag NOTES: Sel X: Luminaire FOOTNOTES For linear lu uminaires. DECLARA able Instruct able E. Addi tle24/2019 YES © C. DECLARA able Instruct able Instruct able Instruct	DRNIA Ligh eated 0 OF CC : F ess: 4 em ection e is lig S: Aut umina S: Aut umina ATION tions: tiona. tions: tiona. tions: tiona.	hting DMPLIANCE TVAC Boiler R 1900 Valley A 1900 Valley A 190	eplace ve. Ple quire a e; EXC r as-bi g Jurisco r as-bi g Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Juri Juri Jurisco Jurisco Jurisco Jurisco Jurisco Ju	ement easanto comple a note i <i>CEPTION</i> uilts. diction r diction r	n CA 9 ite Lum in the s V 2 to <u>4</u> may as dicated <b>CATES</b> ist be s pliance <b>CATES</b> <i>Le base</i> <i>Le base</i>	4566 02 ninaire space I §130.2 sk for L d as W st be p nts/No submit submit submit submit submit	Compliance: Compliance: e Description below exp 2(b). Luminaire of V/lf instead INSTALLAT information provided to provided to itted for all itted for a li itted for a li	: http: : http: on lainin cut sh d of W TION on pro o the b ightin ightin ICE n prov	://www.energy.co	Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved. n wattage used for . Total linear feet j us tables of this do tor during construct // m/Title	andards  t Page: Prepared:  O4 How Wattage is determined  compliance per §1 for the luminaire sh cument. If any selection and can be for the ind c	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated ection needs to be und online at <u>http</u> htrol System (EMC	06 Existing V in column changed, p CS), to be	Natts Natts O5 inste please e. nergy.ca Fie Pass	MMISSI19
ATE OF CALIFO RCC-LTO-E (Cre ERTIFICATE roject Name roject Addre 01 Name or Ito Tag NOTES: Sel X: Luminaire FOOTNOTES For linear lu uminaires. DECLARA able Instruct able E. Addi tle24/2019 YES © C. DECLARA able Instruct able Instruct able Instruct	PRNIA Ligh eated 0 OF CO e: F ess: 4 em ection e is lig s: Aut umina S: Aut umina S: Aut umina S: Aut umina tions: itiona standa tions: itiona standa	hting DMPLIANCE TVAC Boiler R 1900 Valley A 1900 Valley A 190	eplace ve. Ple quire a e; EXC r as-bi g Jurisco r as-bi g Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Jurisco Juri Juri Jurisco Jurisco Jurisco Jurisco Jurisco Ju	ement easanto comple a note i <i>CEPTION</i> uilts. diction r diction r	n CA 9 ite Lum in the s V 2 to <u>4</u> may as dicated <b>CATES</b> ist be s pliance <b>CATES</b> <i>Le base</i> <i>Le base</i>	4566 02 ninaire space I §130.2 sk for L d as W st be p nts/No submit submit submit submit submit	Compliance: Compliance: e Description below exp 2(b). Luminaire of V/lf instead INSTALLAT information provided to provided to itted for all itted for a li ACCEPTAN information provided to	: http: : http: on lainin cut sh d of W TION on pro o the b ightin ightin ICE n prov	://www.energy.co	Reportion in the set of the set o	andards  t Page: Prepared:  O4 How Wattage is determined  compliance per §1 for the luminaire sh cument. If any selection and can be for the ind c	05 # of Luminaires Being Replaced ² 30.0(c) hould be indicated ection needs to be und online at <u>http</u> htrol System (EMC	06 Existing V in column changed, p CS), to be	Natts Natts O5 inste please e. nergy.ca Fie Pass lease ex ance Tes Fie	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspector Pass Fail ad of number xplain why in t.gov/ Id Inspector 5 Fail □ plain why in tt Technician Id Inspector
TATE OF CALIFO Dutdoor RCC-LTO-E (Cre CERTIFICATE roject Name roject Addre 01 Name or Ita Tag NOTES: Sel X: Luminaire Existing FOOTNOTES For linear la uminaires. D. DECLARA Table Instruct Table E. Addi itle24/2019 YES © C. DECLARA Table Instruct Table E. Addi Certification	PRNIA Ligh eated 0 OF CO e: F ess: 4 em ection e is lig s: Aut umina S: Aut umina S: Aut umina S: Aut umina tions: itiona standa tions: itiona standa	biling         DMPLIANCE         IVAC Boiler R         IVAC Boiler R         1900 Valley A         is with a * reg         ins with a * reg         wattage is performed a statu         NRCI-L         NRCI-L </td <td>eplace ve. Ple ve. Ple quire a e; EXC r as-bu d Jurisco shoul RED C ave be nese do mplia TO-01 TO-01 TO-01 TO-02 ized fo RED CI ave be cese do For mo</td> <td>ement easanto comple a note i <i>CEPTION</i> uilts. diction r diction r</td> <td>n CA 9 ite Lum in the s V 2 to <u>9</u> may as dicated <b>CATES</b> de base nts mu. <b>CATES</b> list be s pliance <b>CATES</b> de base st be s pliance</td> <td>4566 02 ninaire space I §130.2 sk for L d as W S OF II ed on I st be p nts/No submit submit submit submit submit</td> <td>Compliance: Compliance: e Description below exp 2(b). Luminaire of V/If instead INSTALLAT information provided to provided to provided to provided to</td> <td>: http: i http: on lainin cut sh d of W TION on pro o the b al_Dc build ightin ICE n prov o the b</td> <td>://www.energy.co</td> <td>Repor Date P 03 Watts per luminaire^{1,2} nce is achieved. n wattage used for . Total linear feet j us tables of this do tor during construct m/Title em; or for an Energe</td> <td>andards  t Page: Prepared:  O4  How Wattage is determined  compliance per §1 for the luminaire sh  cument. If any selection and can be for  y Management Con  cument. If any selection and must be con</td> <td>05 # of Luminaires Being Replaced² 30.0(c) nould be indicated ection needs to be und online at <u>http</u> ntrol System (EMC</td> <td>06 Existing V in column changed, p s://www.e.</td> <td>Natts Natts Natts</td> <td>MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fail ad of number splain why in t Technician Id Inspector Id Inspector s Fail □</td>	eplace ve. Ple ve. Ple quire a e; EXC r as-bu d Jurisco shoul RED C ave be nese do mplia TO-01 TO-01 TO-01 TO-02 ized fo RED CI ave be cese do For mo	ement easanto comple a note i <i>CEPTION</i> uilts. diction r diction r	n CA 9 ite Lum in the s V 2 to <u>9</u> may as dicated <b>CATES</b> de base nts mu. <b>CATES</b> list be s pliance <b>CATES</b> de base st be s pliance	4566 02 ninaire space I §130.2 sk for L d as W S OF II ed on I st be p nts/No submit submit submit submit submit	Compliance: Compliance: e Description below exp 2(b). Luminaire of V/If instead INSTALLAT information provided to provided to provided to provided to	: http: i http: on lainin cut sh d of W TION on pro o the b al_Dc build ightin ICE n prov o the b	://www.energy.co	Repor Date P 03 Watts per luminaire ^{1,2} nce is achieved. n wattage used for . Total linear feet j us tables of this do tor during construct m/Title em; or for an Energe	andards  t Page: Prepared:  O4  How Wattage is determined  compliance per §1 for the luminaire sh  cument. If any selection and can be for  y Management Con  cument. If any selection and must be con	05 # of Luminaires Being Replaced ² 30.0(c) nould be indicated ection needs to be und online at <u>http</u> ntrol System (EMC	06 Existing V in column changed, p s://www.e.	Natts	MMISSI19 NRCC-LT Page 4 06/22/2 07 Field Inspect Pass Fail ad of number splain why in t Technician Id Inspector Id Inspector s Fail □

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

Project Na	ATE OF COMPLIANCE			·						
		·				Report Page:				
Project Ad	ddress: 4900 Valley Ave	. Pleasanton C	A 94566			Date Prepared:				
	PTIONAL CONDITIONS						+h = 6=			
This table	is auto-filled with uned	Itable commen	ts because of s	selections made of	r aata entered	a in tables throughout	the Jorm.			
1	Existing Conditions Powe g: Wattage is per as-built		otes:							
E. ADDIT	IONAL REMARKS									
This table	includes remarks made	by the permit	applicant to th	he Authority Havin	ng Jurisdiction					
F. OUTD	OOR LIGHTING FIXTU	IRE SCHEDULI	E							
existing lu method p	tructions: For new or alt uminaires remaining or l per <u>§141.0(b)2L</u> (ie Table t include existing luming	being moved w N has expande	vithin the space ed for input), i	es covered by the p nclude only new lu	permit applico ıminaires beir	ation in the Table belo	w. For alte	red lighting sys	tems using the Exist	ing
-	Wattage:			24	05	20	07	22		
01 Name or Item Tag	(omplete l'uminaire	2 Description	03 Watts per Iuminaire ^{1,2}	04 How Wattage is determined	05 Total number	06 Luminaire Status ³	07 Excluded per	08 Design Watts	09 Cutoff Req. ≥ 6,200 initial lumen output	Fi
			iummane"	uetermineu	luminaires ²		<u>§140.7(a)</u>		<u>§130.2(b)</u> ⁴	F
XAE	Wall Pack LED	🗌 Linear	32	Mfr. Spec ¹	4	New Total Desig		128 <b>128</b>	NA: <6,200 lumens	
¹ FOOTNC ² For lined luminaire ³ Select "l	New" for new luminaires	; EXCEPTION 2 i lurisdiction may should be indica s in a new outd	to <u>§130.2(b)</u> y ask for Lumir ated as W/lf in loor lighting pr	naire cut sheets to stead of Watts/lui roject or for addea	minaire. Tota I luminaires in	age used for compliar Il linear feet for the lui an alteration. Select	minaire sho "Altered" f	uld be indicated or replacement	luminaires in an alt	era
¹ FOOTNC ² For lined luminaire ³ Select "I "Existing being ren	DTES: Authority Having J ar luminaires, wattage s s.	; EXCEPTION 2 i lurisdiction may should be indica s in a new outd luminaires with s part of the pro	to <u>§130.2(b)</u> y ask for Lumir ated as W/lf in loor lighting pr hin the project oject scope	naire cut sheets to stead of Watts/lui roject or for addea scope that are no	confirm watt minaire. Tota I luminaires in t being altere	age used for complian Il linear feet for the lui an alteration. Select d and are remaining.	minaire sho "Altered" f Select "Exis	uld be indicated or replacement sting Reinstalled	luminaires in an alt	erc
¹ FOOTNC ² For line ² For line ³ Select "I "Existing being ren ⁴ Complia CA Building STATE OF CA	DTES: Authority Having J ar luminaires, wattage s s. New" for new luminaires to Remain" for existing f noved and reinstalled as ince with mandatory cut	; EXCEPTION 2 i lurisdiction may should be indica s in a new outd luminaires with s part of the pro toff requiremer	to <u>§130.2(b)</u> . y ask for Lumir ated as W/lf in loor lighting pr hin the project oject scope nts is required	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires wit	confirm watt minaire. Tota I luminaires in t being altere h initial lumer	age used for complian I linear feet for the lui a an alteration. Select d and are remaining. n output ≥ 6,200 unles	minaire sho "Altered" f Select "Exis	uld be indicated or replacement sting Reinstalled	luminaires in an alt	era
¹ FOOTNC ² For line luminaire ³ Select "I "Existing being ren ⁴ Complia CA Buildin STATE OF CA <b>Outdoo</b>	DTES: Authority Having J ar luminaires, wattage s rs. New" for new luminaires to Remain" for existing f noved and reinstalled as ince with mandatory cut	; EXCEPTION 2 i lurisdiction may should be indica s in a new outd luminaires with s part of the pro toff requiremer	to <u>§130.2(b)</u> . y ask for Lumir ated as W/lf in loor lighting pr hin the project oject scope nts is required	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires wit	confirm watt minaire. Tota I luminaires in t being altere h initial lumer	age used for complian I linear feet for the lui a an alteration. Select d and are remaining. n output ≥ 6,200 unles	minaire sho "Altered" f Select "Exis	uld be indicated or replacement sting Reinstalled I by <u>§130.2(b)</u> .	luminaires in an alt	era airo
¹ FOOTNC ² For line ² For line ³ Select "I "Existing being ren ⁴ Complia CA Buildin STATE OF CA <b>Outdoo</b> NRCC-LTO-E CERTIFICA	DTES: Authority Having J ar luminaires, wattage s rs. New" for new luminaires to Remain" for existing f noved and reinstalled as ince with mandatory cut g Energy Efficiency Standar ALIFORNIA <b>Dr Lighting</b> (Created 01/21) ATE OF COMPLIANCE	; EXCEPTION 2 i lurisdiction may should be indica s in a new outd luminaires with s part of the pro toff requiremen	to <u>§130.2(b)</u> . y ask for Lumir ated as W/lf in loor lighting pr hin the project oject scope nts is required	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires wit	confirm watt minaire. Tota I luminaires in t being altere h initial lumer	age used for complian I linear feet for the lun an alteration. Select d and are remaining. n output ≥ 6,200 unles title24/2019standards	minaire sho "Altered" f Select "Exis	uld be indicated or replacement sting Reinstalled I by <u>§130.2(b)</u> .	luminaires in an alt	era aire
¹ FOOTNC ² For linea luminaire ³ Select "I "Existing being ren ⁴ Complia CA Building STATE OF CA <b>Outdoo</b> NRCC-LTO-E CERTIFICA Project Na	DTES: Authority Having J ar luminaires, wattage s rs. New" for new luminaires to Remain" for existing f noved and reinstalled as ince with mandatory cut g Energy Efficiency Standar ALIFORNIA <b>Dr Lighting</b> (Created 01/21) ATE OF COMPLIANCE	; EXCEPTION 2 i lurisdiction may should be indica s in a new outd luminaires with s part of the pro toff requiremen rds - 2019 Nonre	to <u>§130.2(b)</u> . y ask for Lumir ated as W/lf in door lighting pr hin the project oject scope nts is required	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires wit	confirm watt minaire. Tota I luminaires in t being altere h initial lumer	age used for complian I linear feet for the lui a an alteration. Select d and are remaining. n output ≥ 6,200 unles	minaire sho "Altered" f Select "Exis s exempted	uld be indicated or replacement sting Reinstalled I by <u>§130.2(b)</u> .	luminaires in an alt	era aire
¹ FOOTNC ² For lined luminaire ³ Select "I "Existing being ren ⁴ Complia CA Building STATE OF CA <b>Outdoo</b> NRCC-LTO-E CERTIFICA Project Na	DTES: Authority Having J ar luminaires, wattage s ss. New" for new luminaires to Remain" for existing i noved and reinstalled as ince with mandatory cut g Energy Efficiency Standar ALIFORNIA <b>or Lighting</b> (Created 01/21) ATE OF COMPLIANCE ame: HVAC Boiler Rep	; EXCEPTION 2 i lurisdiction may should be indica s in a new outd luminaires with s part of the pro toff requirement rds - 2019 Nonre placement e. Pleasanton C/	to <u>§130.2(b)</u> . y ask for Lumir ated as W/lf in loor lighting pr hin the project oject scope nts is required esidential Compl	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires with	confirm watt minaire. Tota I luminaires in t being altere h initial lumer	rage used for complian I linear feet for the lun In an alteration. Select In and are remaining. In output ≥ 6,200 unles title24/2019standards	minaire sho "Altered" f Select "Exis s exempted	uld be indicated or replacement sting Reinstalled I by <u>§130.2(b)</u> .	luminaires in an alt	airo
¹ FOOTNO ² For lineo luminaire ³ Select "I "Existing being ren ⁴ Complia CA Building STATE OF CA <b>Outdoo</b> NRCC-LTO-E CERTIFICA Project Na Project Na	DTES: Authority Having J ar luminaires, wattage s rs. New" for new luminaires to Remain" for existing f noved and reinstalled as ince with mandatory cut g Energy Efficiency Standar ALIFORNIA <b>or Lighting</b> (Created 01/21) ATE OF COMPLIANCE ame: HVAC Boiler Rep ddress: 4900 Valley Ave	; EXCEPTION 2 i Jurisdiction may should be indica s in a new outd luminaires with s part of the pro- toff requirement rds - 2019 Nonre placement e. Pleasanton C/ 5 DECLARATIO	to <u>§130.2(b)</u> . y ask for Lumir ated as W/lf in loor lighting pr hin the project oject scope nts is required esidential Compl ca 94566 <b>DN STATEME</b>	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires with liance: <u>http://www.</u>	confirm watt minaire. Tota I luminaires in t being altere h initial lumer	rage used for complian I linear feet for the lun In an alteration. Select In and are remaining. In output ≥ 6,200 unles title24/2019standards	minaire sho "Altered" f Select "Exis s exempted	uld be indicated or replacement sting Reinstalled I by <u>§130.2(b)</u> .	luminaires in an alt	era airo
¹ FOOTNC ² For linea luminaire ³ Select "I "Existing being ren ⁴ Complia CA Building CA Building STATE OF CA <b>Outdoo</b> NRCC-LTO-E CERTIFICA Project Na Project Na Project Ac	DTES: Authority Having J ar luminaires, wattage s rs. New" for new luminaires to Remain" for existing f noved and reinstalled as ince with mandatory cut g Energy Efficiency Standar ALIFORNIA Or Lighting (Created 01/21) ATE OF COMPLIANCE ame: HVAC Boiler Rep ddress: 4900 Valley Ave	; EXCEPTION 2 i Jurisdiction may should be indica s in a new outd luminaires with s part of the pro- toff requirement rds - 2019 Nonre placement e. Pleasanton C/ 5 DECLARATIO	to <u>§130.2(b)</u> . y ask for Lumir ated as W/lf in loor lighting pr hin the project oject scope nts is required esidential Compl ca 94566 <b>DN STATEME</b>	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires with liance: http://www. NT accurate and comp	confirm watt minaire. Tota I luminaires in t being altere h initial lumer energy.ca.gov/ energy.ca.gov/	rage used for complian I linear feet for the lun In an alteration. Select In and are remaining. In output ≥ 6,200 unles title24/2019standards	minaire sho "Altered" f Select "Exis s exempted	uld be indicated or replacement sting Reinstalled I by <u>§130.2(b)</u> .	luminaires in an alt	era airo
¹ FOOTNC ² For linea luminaire ³ Select "I "Existing being ren ⁴ Complia CA Building CA Building STATE OF CA <b>Outdoo</b> NRCC-LTO-E CERTIFICA Project Na Project Na <b>DOCUM</b> I certify th	DTES: Authority Having J ar luminaires, wattage s s. New" for new luminaires to Remain" for existing f noved and reinstalled as ince with mandatory cut g Energy Efficiency Standar ALIFORNIA <b>Or Lighting</b> (Created 01/21) ATE OF COMPLIANCE ame: HVAC Boiler Rep ddress: 4900 Valley Ave ENTATION AUTHOR'S hat this Certificate of Co that this Certificate of Co	; EXCEPTION 2 i Jurisdiction may should be indica s in a new outd luminaires with s part of the pro- toff requirement rds - 2019 Nonre placement e. Pleasanton C/ <b>5 DECLARATIO</b> ompliance docu	to §130.2(b). y ask for Lumir ated as W/lf in loor lighting pr hin the project oject scope nts is required esidential Compl esidential Compl A 94566 <b>DN STATEME</b>	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires with liance: http://www.d	confirm watt minaire. Tota I luminaires in t being altere h initial lumer energy.ca.gov/ energy.ca.gov/	age used for complian al linear feet for the lun an alteration. Select d and are remaining. n output ≥ 6,200 unles title24/2019standards Report Page: Date Prepared:	minaire sho "Altered" f Select "Exis s exempted	uld be indicated or replacement sting Reinstalled I by <u>§130.2(b)</u> .	luminaires in an alt d" for existing lumin CALIFORNIA ENERGY CO	air
¹ FOOTNO ² For lineo luminaire ³ Select "I "Existing being ren ⁴ Complia CA Building STATE OF CA Outdoo NRCC-LTO-E CERTIFICA Project Na Project Na Project Ac	DTES: Authority Having J ar luminaires, wattage s New" for new luminaires to Remain" for existing i noved and reinstalled as ince with mandatory cut g Energy Efficiency Standar ALIFORNIA <b>Or Lighting</b> (Created 01/21) ATE OF COMPLIANCE ame: HVAC Boiler Reg ddress: 4900 Valley Ave ENTATION AUTHOR'S hat this Certificate of Co station Author Name:	; EXCEPTION 2 i Jurisdiction may should be indica s in a new outd luminaires with s part of the pro- toff requirement rds - 2019 Nonre placement e. Pleasanton C/ <b>5 DECLARATIO</b> ompliance docu Aurum Consu	to §130.2(b). y ask for Lumir ated as W/lf in door lighting pr hin the project oject scope nts is required esidential Compl A 94566 <b>DN STATEME</b> umentation is a Najib Any ulting Enginee	naire cut sheets to stead of Watts/lui roject or for addea scope that are no for luminaires with liance: http://www.d NT accurate and comp wary rs	confirm watt minaire. Tota I luminaires in t being altere h initial lumer energy.ca.gov/ energy.ca.gov/ olete	age used for compliant al linear feet for the lun an alteration. Select d and are remaining. n output ≥ 6,200 unles title24/2019standards keport Page: Date Prepared: Date Prepared: umentation Author Signature Date: / HERS Certification Id	minaire sho "Altered" f Select "Exis s exempted gnature:	uld be indicated for replacement sting Reinstalled I by <u>§130.2(b)</u> .	luminaires in an alt d" for existing lumin CALIFORNIA ENERGY CO	era airo

to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Signature: Migh G Responsible Designer Name: Najib Anwary Date Signed 06/22/2021 Aurum Consulting Engine

Company :	Aurum Consulting Engineers	Date Signed:	06/22/2021
Address:	1798 Technology Drive Suite 242	License:	E21043
City/State/Zip:	San Jose, CA 95110	Phone:	408) 564-7925

January 2021

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

Name or Item Tag		luminaire ^{1,2}	uetermineu	being Replaced	
Newson and the sec	Complete Luminaire Description	Watts per	How Wattage is determined	# of Luminaires Being Replaced ²	Existing Watt
01	02	03	04	05	06
	e all existing luminaires being replaced to establish the d should NOT be included. age:	lighting power allowance	per <u>§141.0(b)2Lii</u> (	or <u>§141.0(b)2Liii</u> . I	Existing luminai
N. EXISTING CONDITIC	NS POWER ALLOWANCE (alterations only)				
M. LIGHTING ALLOWA This Section Does Not App	NCE: PER SPECIFIC AREA				
This Section Does Not Ap					
L. LIGHTING ALLOWAN	ICE: ORNAMENTAL				
This Section Does Not Ap	ply				
K. LIGHTING ALLOWAR	ICE: SALES FRONTAGE				
This Section Does Not Ap	ply				
J. LIGHTING ALLOWAN	CE: PER APPLICATION				
This Section Does Not Ap	ply				
	LOWANCE (per <u>§140.7</u> )				
This Section Does Not Ap	Jiy				
H. OUTDOOR LIGHTING					
This Section Does Not Ap					
G. CUTOFF REQUIREM					
-	-				
Project Name: HVAC B	illey Ave. Pleasanton CA 94566		t Page: Prepared:		
CERTIFICATE OF COMPLIA		D	+ D		
NRCC-LTO-E (Created 01/21)				(	CALIFORNIA ENERG

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



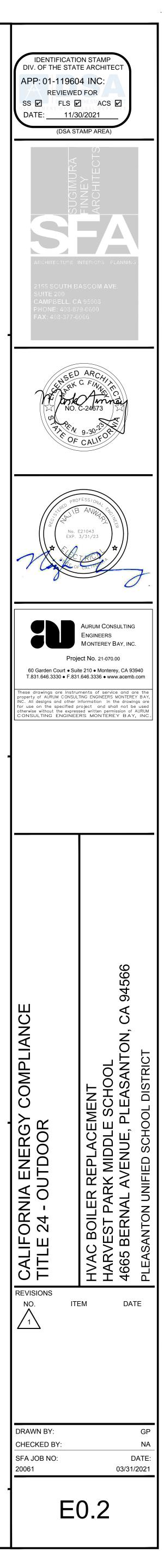
	?
of	
nis	
able	
on.	

ailab

January 2021



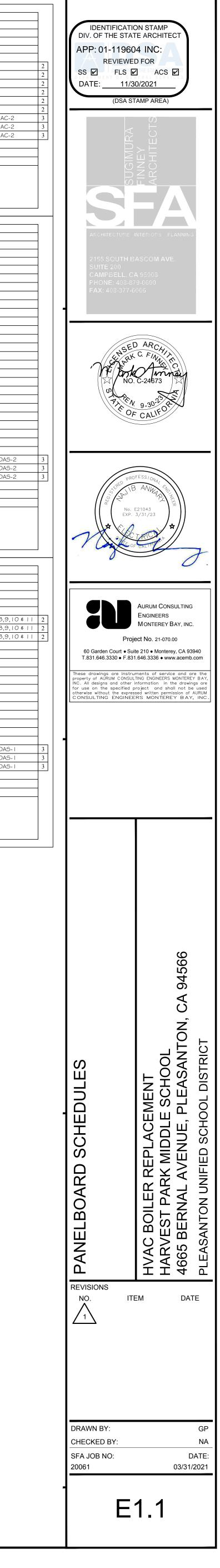
January 2021

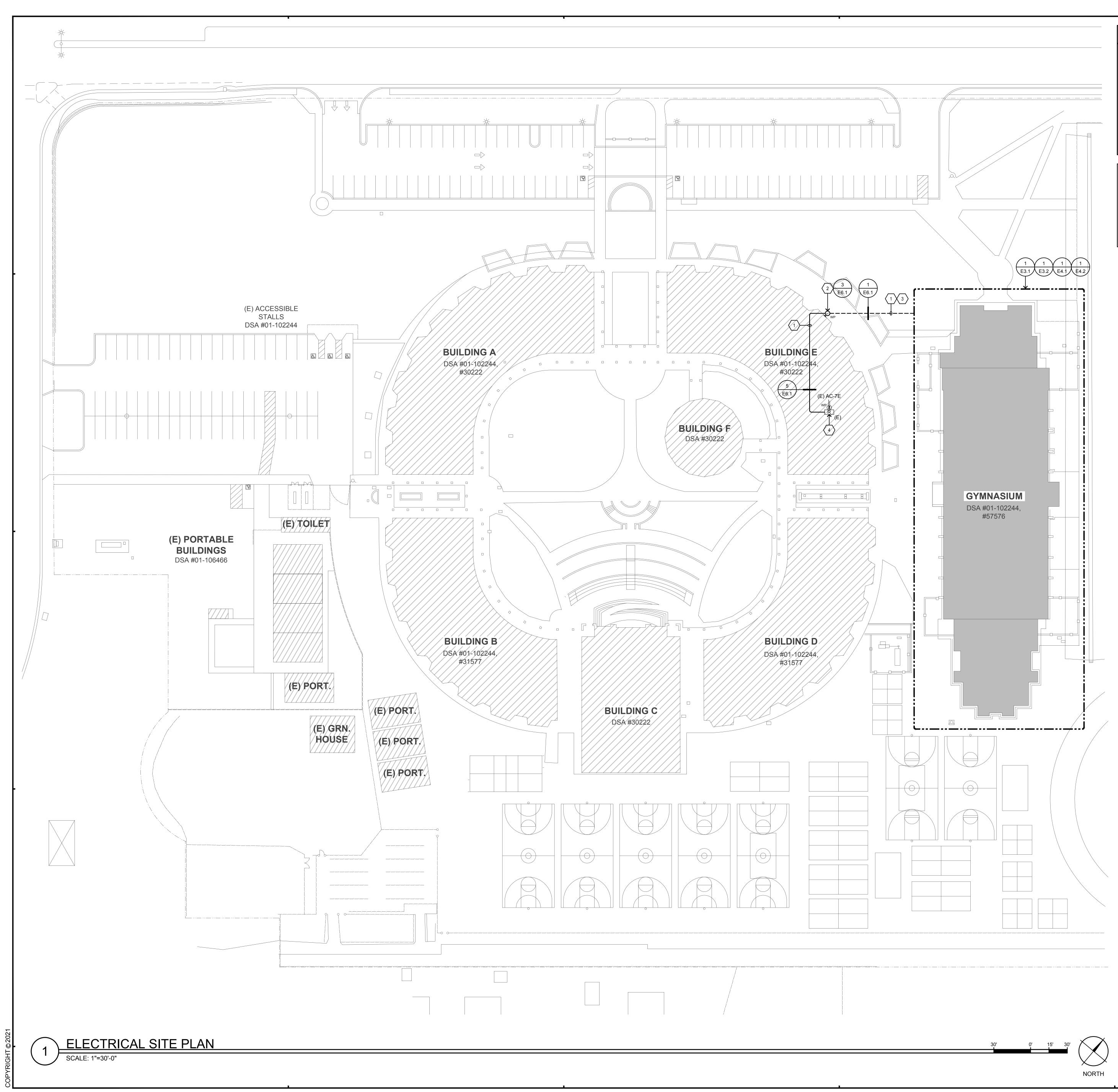


**DPYRIGHT © 2021** 

Voltage:		_		_				. ~			
Wire:	4W	_		1	] (	E) P	ANE	LG	L		
Type:	NEMA I									1	
Mains:	M.L.O.										
	Load	A	В	С	Bkr	Ck	abc	Ck	Bkr	A	E
EXISTING							₩ I	2	DM	,,,	-
EXISTING	g load				40/2	3	╎┼┿┤	4	200/3		
EXISTING	g load				10/0	5	╎╎┼┥	6	-		
EXISTING	g load				40/2	7	╽╋┼┤	8	20/1		
EXISTING	g load				20/2	9	╎╎╇┤	10	20/1		
EXISTING	g load				20/2		╎╎┼┿	12	20/1		
EXISTING	g load				20/2	13	+	14	20/1		
EXISTING	g load				20/2	15	╽┠╋┤	16	20/1		
EXISTING	g load				20/1	17	<b>│ ├┼</b> ∳	18	20/1		
EXISTING	g load				20/1	19	+	20	20/1		
EXISTING	g load				30/2	21		22	30/2		
EXISTING	g load					23	<b>│ ├┼</b> ∳	24	00/L		
EXISTING					20/1	25	<b>│ ♦ ┤ ┤</b>	26	20/1		
EXISTING					20/1	27	<b>│</b> ┣╇┤	28	30/2		20
	T FANS EF-1,2,3 ∉ 4			1518	20/1	29	<u>↓</u> <u></u>	30			
	FAN COILS FC-1,2,3				15/2	31	<b>│</b> ♥┼┤	32	50/2	3328	
	FAN COILS FC-1,2,3	\$4	100			33	<u>↓</u> <u>†</u>	34			33
	1 CONTROLLER BC-1			208	15/2	35	<b>│</b> ╞╤╡	36	20/1		
	1 CONTROLLER BC-1	208			. 0,2	37	<b>│</b> ╇┼┤	38	-		
SPACE (					-	39	<b>│</b> ┣╇┨	40	-		
SPACE (	ONLY				-	41	-+++	42	-		
Voltage:	-		INSTALL LOCK						2		
Voltage: Wire: Type:	20/208V,3ø 4W NEMA		INSTALL LOCK	-ON DEVICE			ANE	L GI	_2		
Wire:	4W		INSTALL LOCK				ANE	L GI	_2		
Wire: Type:	4W NEMA I M.L.O.			[1	] (E	E) P/					F
Wire: Type:	4W NEMA I M.L.O. Load		B				abc	L GI	<b>_2</b> <u>Bkr</u> 20/1	 A	E
Wire: Type: Mains:	4W NEMA I M.L.O. Load G LOAD			[1	] <b>(E</b>	E) P/	abc	Ck	Bkr	A	E
Wire: Type: Mains: EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD			[1	(E 	E) P/	abc	Ck 2	Bkr 20/1	A	E
Wire: Type: Mains: EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD G LOAD			[1	Bkr 20/1 20/1	E) P/	abc	Ck 2 4	Bkr 20/1 20/1	A	E
Wire: Type: Mains: EXISTING EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD G LOAD G LOAD			[1	Bkr 20/1 20/1 20/1	E) PA	abc	Ck 2 4 6	Bkr 20/1 20/1 20/1	A	E
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD G LOAD G LOAD G LOAD			[1	Bkr 20/1 20/1 20/1 20/1	<b>Ck</b> 1 3 5 7	abc	Ck 2 4 6 8	Bkr 20/1 20/1 20/1 20/1	A	E
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD			[1	Bkr 20/1 20/1 20/1 20/1 20/1	E) P/ Ck 1 3 5 7 9	abc	Ck 2 4 6 8 10	Bkr 20/1 20/1 20/1 20/1 20/1	A	E
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD			[1	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1	<ul> <li>Ck</li> <li>I</li> <li>3</li> <li>5</li> <li>7</li> <li>9</li> <li>I</li> </ul>	abc	Ck 2 4 6 8 10 12	Bkr 20/1 20/1 20/1 20/1 20/1 20/1	A	E
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD			[1	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	<ul> <li>Ck</li> <li>1</li> <li>3</li> <li>5</li> <li>7</li> <li>9</li> <li>11</li> <li>13</li> </ul>	abc	Ck 2 4 6 8 10 12 14	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD G LOAD			[1	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	Ck 1 3 5 7 9 11 13 15	abc	Ck           2           4           6           8           10           12           14           16	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD			[1	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	Ck 1 3 5 7 9 11 13 15 17 19 21	abc	Ck           2           4           6           8           10           12           14           16           18	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	E
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA I M.L.O. Load G LOAD G LOAD			[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1	Ck           1           3           5           7           9           11           13           15           17           19           21           23	abc	Ck 2 4 6 8 10 12 14 16 18 20 22 24	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA I N.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load			[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1	Ck           1           3           5           7           9           111           13           15           17           19           21           23           25	abc	Ck 2 4 6 8 10 12 14 16 18 20 22 24 22	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA 1 M.L.O. Load G LOAD G LOAD			[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1	Ck           1           3           5           7           9           11           13           15           17           19           21           23           25           27	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA 1 M.L.O. Load G LOAD G LOAD			[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1	Ck           1           3           5           7           9           11           13           15           17           19           21           23           27           29	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire: Type: Mains: EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	4W NEMA 1 M.L.O. Load G LOAD G LOAD	A A 269	B B C C C C C C C C C C C C C	[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1	Ck 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28           300           32	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire:           Type:           Mains:           EXISTING	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load	A A A A A A A A A A A A A A A A A A A		[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1	Ck 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           30           32           34	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire:           Type:           Mains:           EXISTING           EXISTI	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load	A A A A A A A A A A A A A A A A A A A	B B C C C C C C C C C C C C C	[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1	Ck 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28           300           32           34           36	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1		
Wire:           Type:           Mains:           EXISTING           SPLIT           EXISTING	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load	A A A A A A A A A A A A A A A A A A A	B B C C C C C C C C C C C C C	[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1	Ck           1           3           5           7           9           11           13           15           17           19           21           23           25           27           29           31           33           35           37	abc	Ck           2           4           6           8           10           12           14           16           18           20           21           24           26           28           300           32           34           36           38	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1		
Wire:           Type:           Mains:           EXISTING	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load	A A A A A A A A A A A A A A A A A A A	B B C C C C C C C C C C C C C	[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/2           30/2	Ck           1           3           5           7           9           11           13           15           17           9           21           23           25           27           29           31           35           37           39	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28           30           32           34           36           38           40	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1		
Wire:           Type:           Mains:           EXISTING           SPLIT SY           EXISTING	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load	A A A A A A A A A A A A A A A A A A A	B B C C C C C C C C C C C C C	[1	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/2	Ck           1           3           5           7           9           11           13           15           17           19           21           23           25           27           29           31           33           35           37	abc	Ck           2           4           6           8           10           12           14           16           18           20           21           24           26           28           300           32           34           36           38	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	A	
Wire:           Type:           Mains:           EXISTING	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load		B B C C C C C C C C C C C C C	L C C C C C C C C C C C C C	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/2           30/2           20/1	Ck           1           3           5           7           9           11           13           15           17           19           21           23           25           27           29           31           35           37           39           41	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28           300           32           34           36           38           40           42	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1		
Wire:           Type:           Mains:           EXISTING	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load	A A 269 269	B B C C C C C C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/2           30/2           20/1	Ck           1           3           5           7           9           11           13           15           17           19           21           23           25           27           29           31           35           37           39           41	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28           300           32           34           36           38           40           42	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1		
Wire:           Type:           Mains:           EXISTING	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load	A A 269 269 1 269	B B B C C C C C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C	Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/2           30/2           20/1	Ck           1           3           5           7           9           11           13           15           17           19           21           23           25           27           29           31           35           37           39           41	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28           300           32           34           36           38           40           42	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1		E
Wire:           Type:           Mains:           EXISTING	4W NEMA 1 M.L.O. Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load Load	A A 269 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269 1 269	B B C C C C C C C C C C C C C C C C C C		Bkr           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/1           20/2           30/2           20/1           400/2	Ck 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 RE EXI	abc	Ck           2           4           6           8           10           12           14           16           18           20           22           24           26           28           300           32           34           36           38           40           42	Bkr 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1		





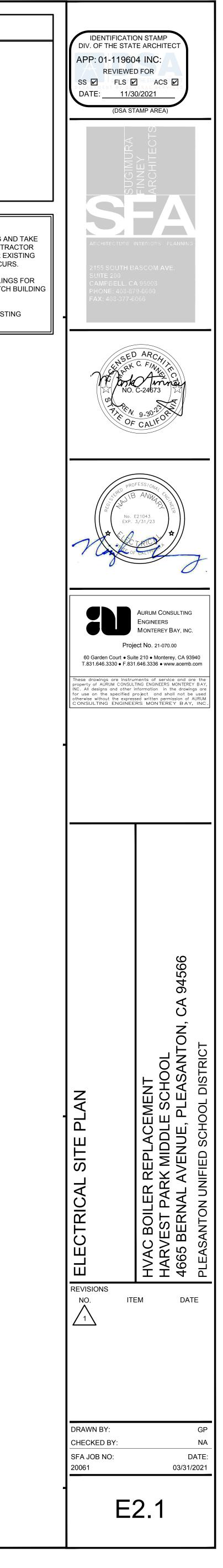


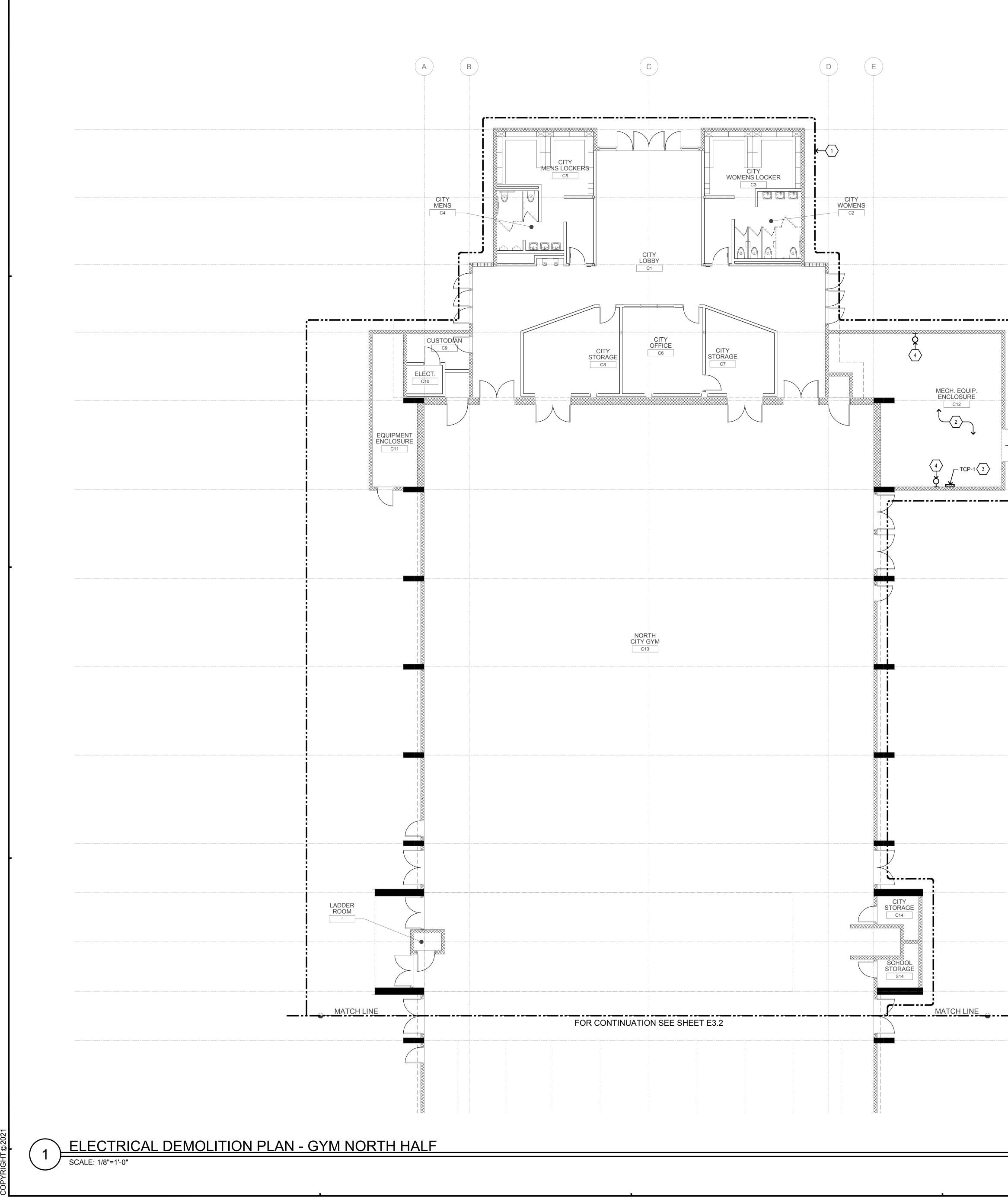
# ⊖ SHEET NOTES

- 1. PROVIDE & INSTALL 2"C. FOR FIRE ALARM.
- 2. PROVIDE & INSTALL 16" SQ. x 8" DEEP NEMA 3R PULLCAN.
- SEE 1/E4.1 FOR CONTINUATION.
   LOCATED ON ROOF.

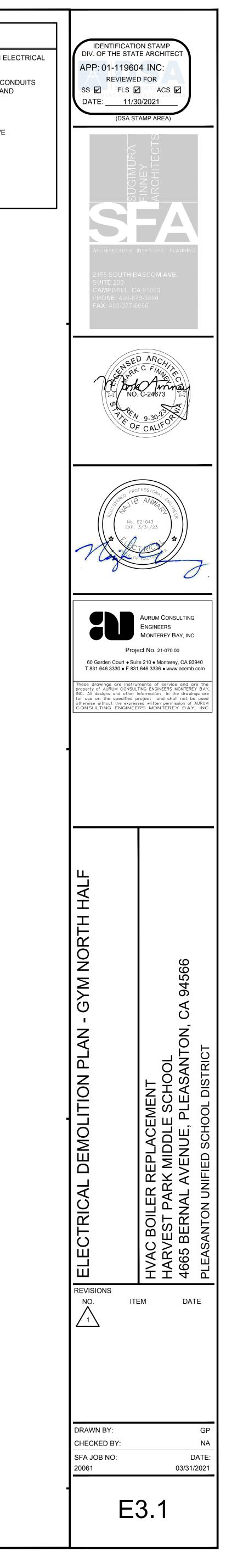
### GENERAL NOTES:

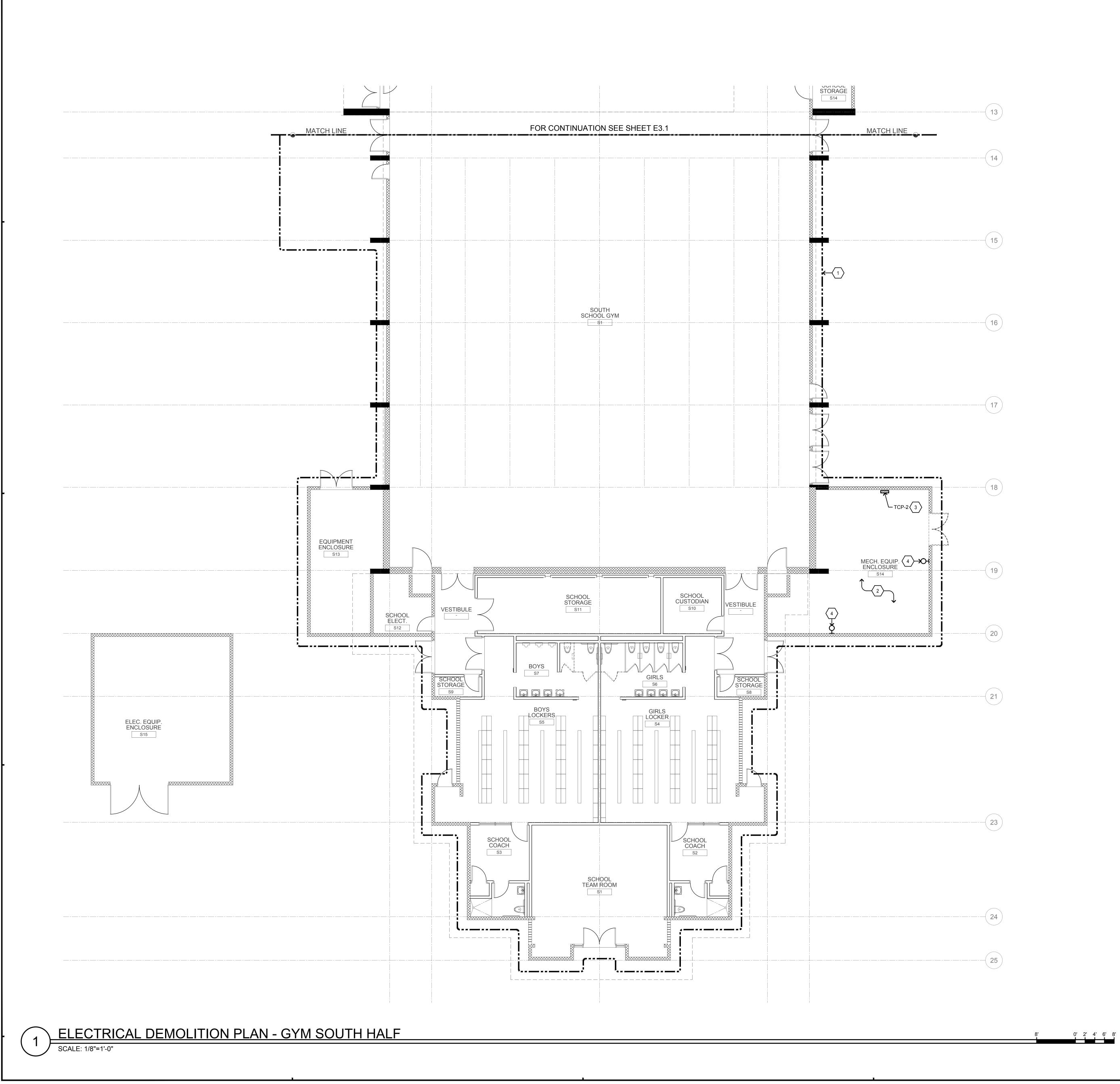
- A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER. REPAIR EXISTING GRADING/CONCRETE TO EQUAL OR BETTER CONDITION WHERE NEW TRENCHING OCCURS.
- 3. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.
- C. SCAN THE EXISTING CONCRETE OR MASONRY WALL FOR EXISTING REINFORCING. EXISTING REINFORCING SHALL NOT BE CUT.





		<ul> <li>SHEET NOTES</li> <li>COORDINATE WITH MECHANICAL PLANS FOR UNITS TO BE DEMOLISHED. DEMOLISH ELI CONNECTIONS FOR UNITS PER GENERAL DEMOLITION NOTES ON E0.1.</li> <li>CONTRACTOR SHALL PRESERVE AND MAKE ALL NECESSARY PROVISIONS (BOXES, CON AND WIRES) TO KEEP ACTIVE EXISTING ELECTRICAL CONNECTIONS FOR LIGHTING AND RECEPTACLES IN EQUIPMENT ENCLOSURE/UTILITY YARD.</li> <li>DEMOLISH ELECTRICAL CONNECTION PER GENERAL DEMOLITION NOTES ON E0.1</li> <li>PER GENERAL DEMOLITION NOTES ON E0.1, REMOVE LIGHT FIXTURE AND PRESERVE ASSOCIATED CONNECTIONS FOR REUSE UNDER NEW WORK.</li> </ul>
	2	
	3	
	(4)	
	(5)	
	6	
	7	
	9	
	(10)	
	(11)	
	(12)	
	(12.5)	
	(13)	
. <b></b>	(14)	
	8' 0' 2' 4' 6' 8 	

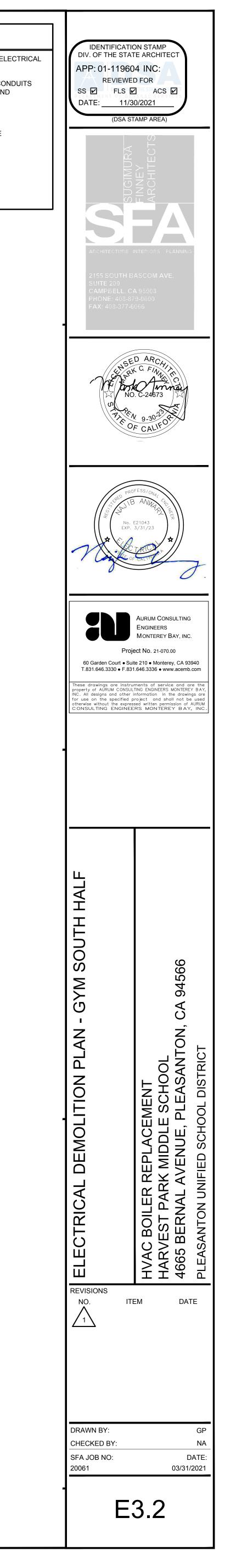




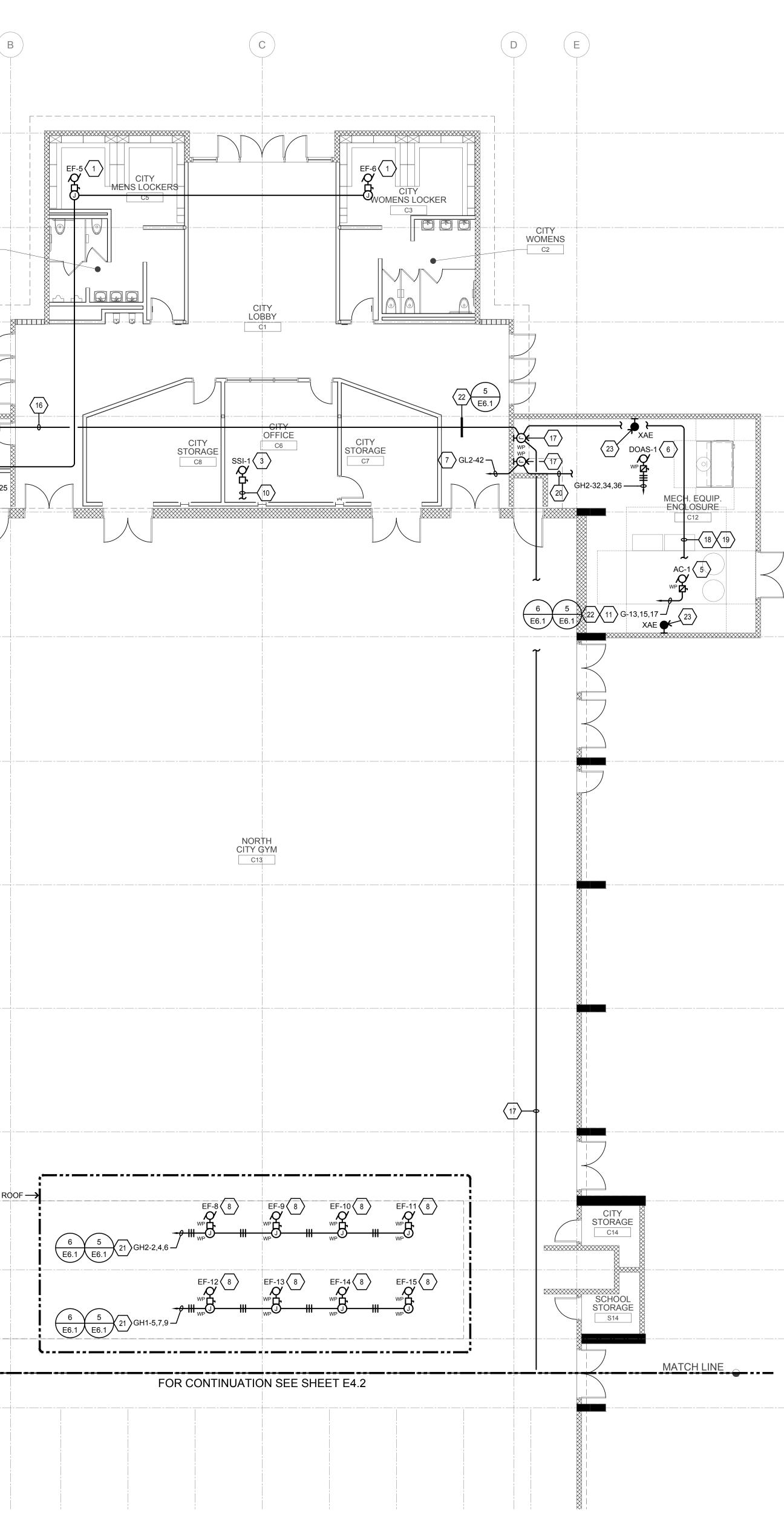
NORT

# ○ SHEET NOTES

- COORDINATE WITH MECHANICAL PLANS FOR UNITS TO BE DEMOLISHED. DEMOLISH ELECTRICAL CONNECTIONS FOR UNITS PER GENERAL DEMOLITION NOTES ON E0.1.
- CONTRACTOR SHALL PRESERVE AND MAKE ALL NECESSARY PROVISIONS (BOXES, CONDUITS AND WIRES) TO KEEP ACTIVE EXISTING ELECTRICAL CONNECTIONS FOR LIGHTING AND RECEPTACLES IN EQUIPMENT ENCLOSURE/UTILITY YARD. 3. DEMOLISH ELECTRICAL CONNECTION PER GENERAL DEMOLITION NOTES ON E0.1.
- 4. PER GENERAL DEMOLITION NOTES ON E0.1, REMOVE LIGHT FIXTURE AND PRESERVE ASSOCIATED CONNECTIONS FOR REUSE UNDER NEW WORK.



 	 (12)(13)	14 $(2)$ E6.1	(13)	TYP. $1$ $E6.1$	CI ME
 	 		<b>\</b>	<b>+</b>	
				3 E6.1 15	
 	 		GL2-37,3 9		
 	 		(E) PANEL "GL2 (E) PANEL "GH2		
				EQUIPMENT ENCLOSURE C11	
 	 		LADDER ROOM		
 	 		·····		
			MATCH		



		○ SHEET NOTES
		1. FOR EXHAUST FAN; 126 WATTS, 120V.
		2. FOR EXHAUST FAN; 17 WATTS, 120V.
		3. FOR SPLIT SYSTEM HEAT PUMP INDOOR UNIT.
		4. FOR SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT; 12.5 MCA, 208V, 1Ø.
		5. AIR CONDITIONING UNIT; 95 MCA, 480V, 3Ø.
		6. DEDICATED OUTSIDE AIR SYSTEM; 13 MCA, 480V, 3Ø.
		7. FOR DUCT SMOKE DETECTOR; 120V.
		8. FOR EXHAUST FAN; 1/2 HP, 480V, 3Ø.
	—— 2	9. PROVIDE & INSTALL $\frac{1}{2}$ "C. WITH CONTROL CABLES TO LIGHT SWITCH.
		10. PROVIDE & INSTALL $\frac{3}{4}$ "C. TO ASSOCIATED OUTDOOR UNIT WITH 2 #10 & 1 #10 GND.
		11. 1½" C., 3 #1/0 & 1 #6 GND.
		12. SEE 1/FA2.1 FOR CONTINUATION.
		13. PROVIDE & INSTALL 2"C. FOR FIRE ALARM.
	3	14. PROVIDE & INSTALL IN-GRADE CHRISTY PULLBOX #N30, LID LABELED "FIRE ALARM".
		15. PROVIDE & INSTALL 16" SQ. x 8" DEEP NEMA 3R PULLCAN.
		16. PROVIDE & INSTALL (2) $\frac{3}{4}$ "C. FOR FIRE ALARM.
		17. PROVIDE & INSTALL 8" SQ. x 4" DEEP NEMA 3R PULLCAN.
		18. PROVIDE & INSTALL ¾"C. FOR FIRE ALARM.
		19. FOR DUCT SMOKE DETECTOR FOR UNIT AC-1.
	Ţ	20. PROVIDE & INSTALL ¾"C. WITH 2 #12 & 1 #12 GND TO DUCT SMOKE DETECTOR DEVICI AC-1.
		21. ¾"C., 3 #10 & 1 #10 GND.
		22. ROUTE CONDUIT ON ROOF.
	5	23. CONNECT TO EXISTING LIGHTING CIRCUIT AND ASSOCIATED LIGHTING CONTROLS PRESERVED DURING DEMOLITION WORK. CONNECT EMERGENCY BATTERY BACK-UP LIGHTING CIRCUIT UNSWITCHED HOT.
		<u>GENERAL NOTES:</u>
	6	A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHIN TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSAL CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO REPAIR EXISTING GRADING/CONCRETE TO EQUAL OR BETTER CONDITION WHERE N TRENCHING OCCURS.
		B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CE FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES MATCH BUILDING FINISH. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENT
$\left \right $		C. COORDINATE WITH MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS MECHANICAL UNITS.
	$\frown$	D. SCAN THE EXISTING CONCRETE OR MASONRY WALL FOR EXISTING REINFORCING. E REINFORCING SHALL NOT BE CUT.
	(7)	



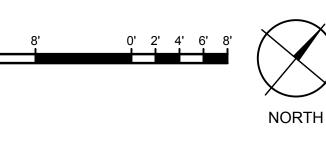


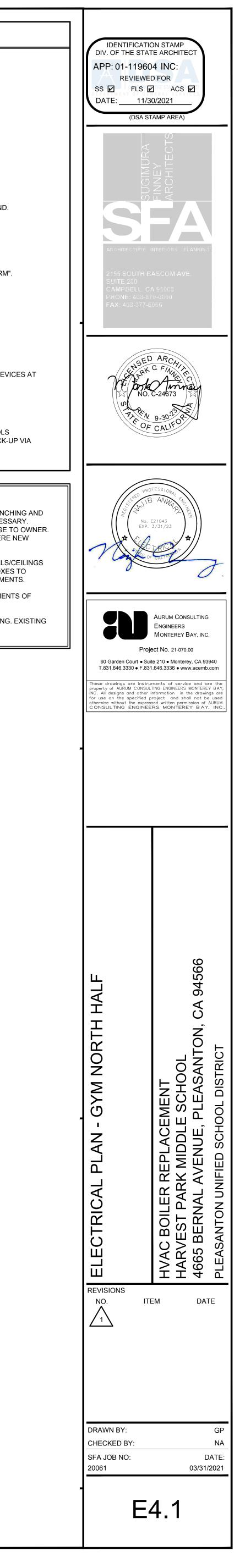
----(10)

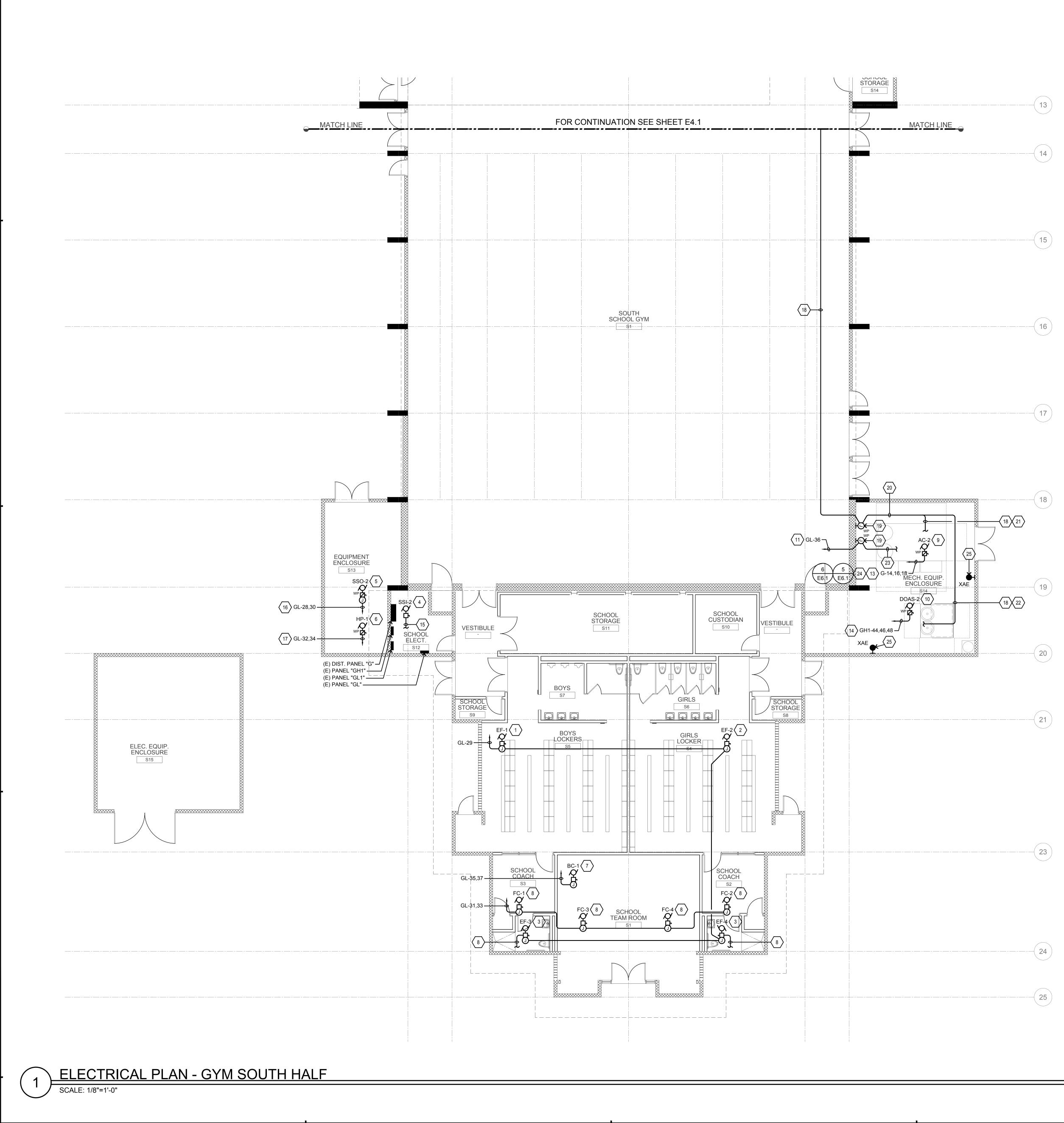


----(12)

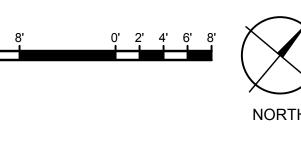
- 12.5
- ----(13)
- ----(14)

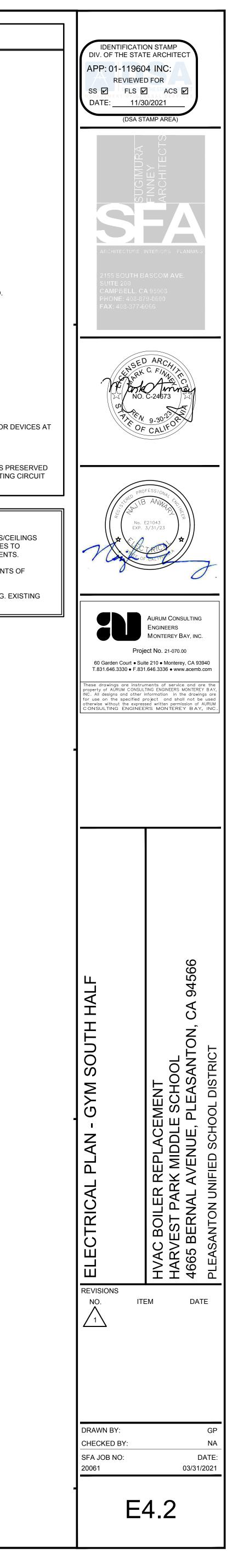




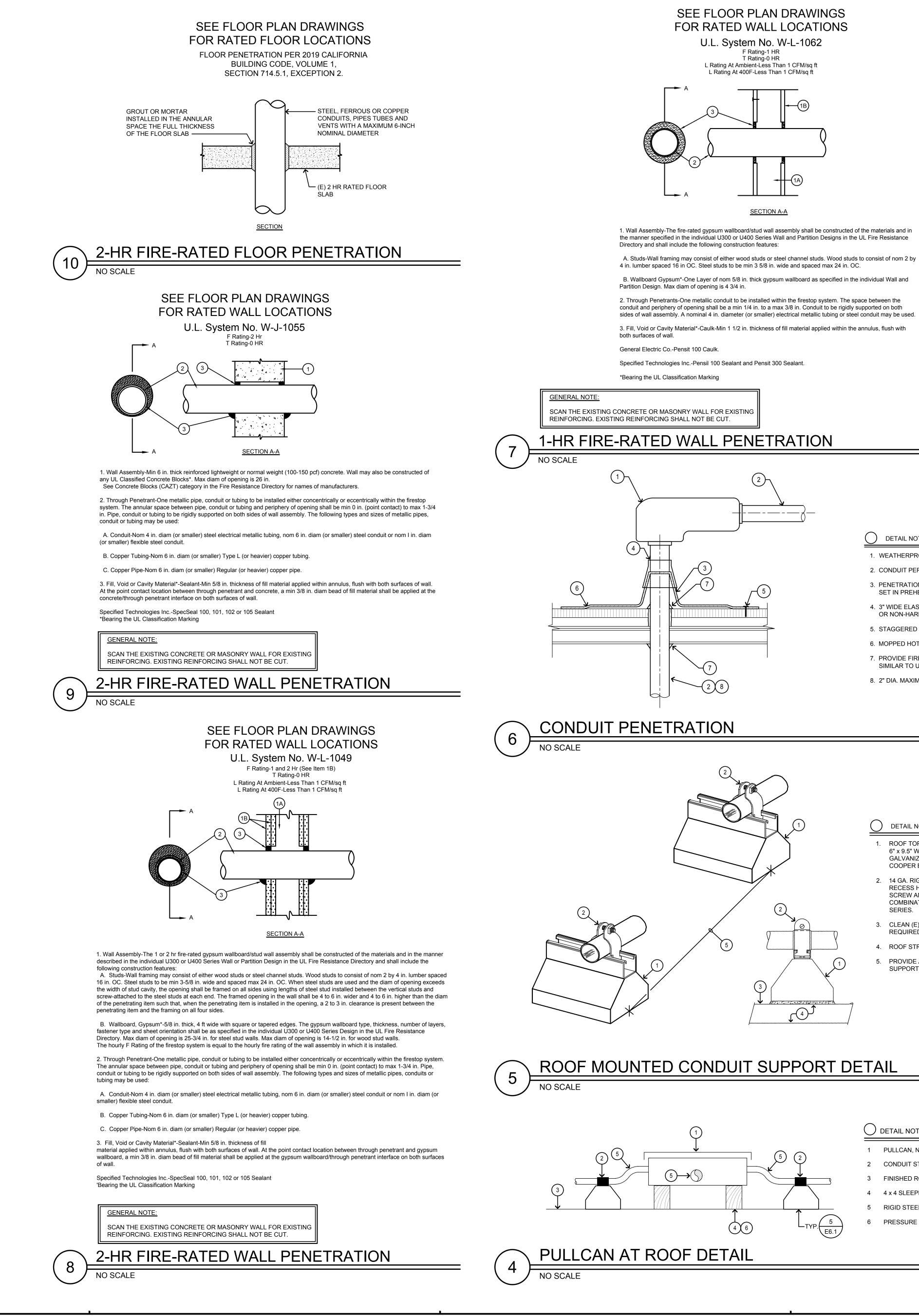


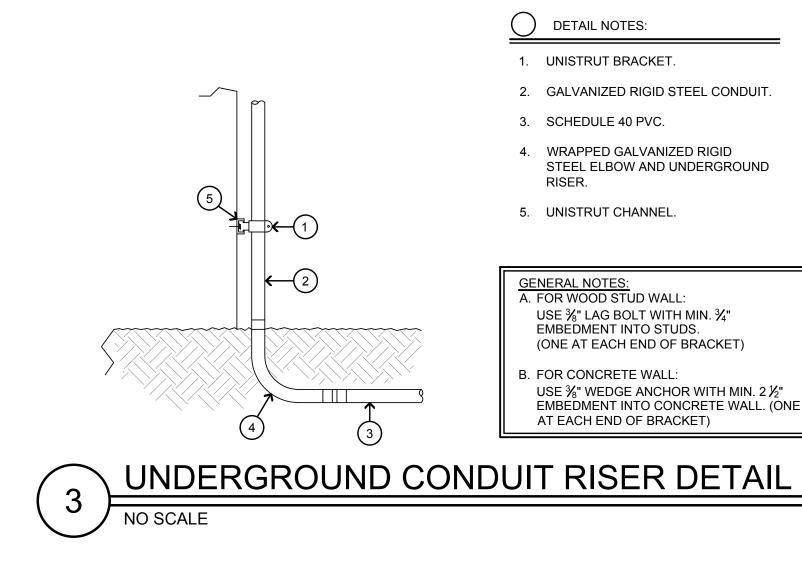
○ SHEET NOTES
1. FOR EXHAUST FAN; 789 WATTS, 120V.
2. FOR EXHAUST FAN; 228 WATTS, 120V.
3. FOR EXHAUST FAN; 15 WATTS, 120V
4. FOR SPLIT SYSTEM AIR CONDITIONER INDOOR UNIT.
5. FOR SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT; 20 MCA, 208V, 1Ø.
6. VRF OUTDOOR UNIT HEAT PUMP; 32 MCA, 208V, 1Ø.
7. VRF BRANCH CONTROLLER; 2 MCA, 208V, 1Ø.
8. VRF INDOOR FAN COIL UNIT; 0.24 MCA, 208V, 1Ø.
9. AIR CONDITIONING UNIT; 95 MCA, 480V, 3Ø.
10. DEDICATED OUTSIDE AIR SYSTEM; 29.7 MCA, 480V, 3Ø.
11. FOR DUCT SMOKE DETECTOR; 120V.
12. PROVIDE & INSTALL $\frac{1}{2}$ "C. WITH CONTROL CABLES TO LIGHT SWITCH.
13. 1½" C., 3 #1/0 & 1 #6 GND.
14. ¾"C., 3 #10 & 1 #10 GND.
15. PROVIDE & INSTALL $\frac{3}{4}$ "C. TO ASSOCIATED OUTDOOR UNIT WITH 2 #10 & 1 #10 GND.
16. ¾"C., 2 #10 & 1 #10 GND.
17. ¾"C., 2 #6 & 1 #10 GND.
18. PROVIDE & INSTALL ¾"C. FOR FIRE ALARM.
19. PROVIDE & INSTALL 8" SQ. x 4" DEEP NEMA 3R PULLCAN.
20. PROVIDE & INSTALL (2) $\frac{3}{4}$ "C. FOR FIRE ALARM.
21. TO DUCT SMOKE DETECTOR FOR UNIT AC-2.
22. TO DUCT SMOKE DETECTOR FOR UNIT DOAS-2.
23. PROVIDE & INSTALL ¾"C. WITH 2 #12 & 1 #12 GND TO EACH DUCT SMOKE DETECTOR E AC-2 & DOAS-2.
24. ROUTE CONDUIT ON ROOF.
25. CONNECT TO EXISTING LIGHTING CIRCUIT AND ASSOCIATED LIGHTING CONTROLS PR DURING DEMOLITION WORK. CONNECT EMERGENCY BATTERY BACK-UP VIA LIGHTING UNSWITCHED HOT.
<u>GENERAL NOTES:</u>
A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CE FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES MATCH BUILDING FINISH. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENT
B. COORDINATE WITH MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS MECHANICAL UNITS.
C. SCAN THE EXISTING CONCRETE OR MASONRY WALL FOR EXISTING REINFORCING. E REINFORCING SHALL NOT BE CUT.





# FIRE RATED PENETRATIONS SHOWN ARE FOR USE WHERE THE PROJECT WALL OR/AND FLOOR CONSTRUCTION CORRESPONDS TO ANY SHOWN IN DETAILS 7, 8, 9 & 10 BELOW





- BELL ENDS -

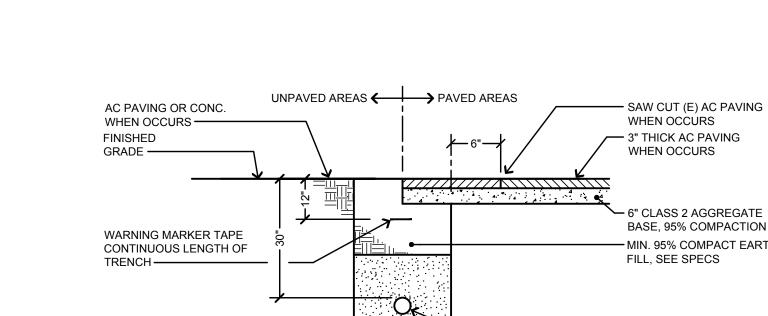
SIZE AND USAGE

### DETAIL NOTES:

- 1. WEATHERPROOF CONDULET.
- 2. CONDUIT PER DRAWINGS. 3. PENETRATION FLASHING ("ROOF JACK")
- SET IN PREHEATED SURFACE.
- 4. 3" WIDE ELASTOMERIC FLASHING STRIP OR NON-HARDENING MASTIC.
- 5. STAGGERED NAILING.
- 6. MOPPED HOT TAR.
- 7. PROVIDE FIRE STOPPING MATERIAL SIMILAR TO U.L. FC 1002 REQUIREMENTS.
- 8. 2" DIA. MAXIMUM PENETRATION SIZE.

DETAIL NOTES:

- 1. ROOF TOP CONDUIT SUPPORT; 5" x 6" x 9.5" WITH 1" HIGH 14 GA. GALVANIZED CHANNEL STRUT. COOPER B-LINE "DB" SERIES.
- 2. 14 GA. RIGID CONDUIT CLAMP WITH RECESS HEX HEAD MACHINE SCREW AND SQUARE NUT COMBINATION. COPPER B-LINE B200 SERIES.
- 3. CLEAN (E) ROOF AREA AS REQUIRED.
- 4. ROOF STRUCTURE.
- 5. PROVIDE AND INSTALL CONDUIT SUPPORT PER CEC REQUIREMENTS.



YPICAL PULLBOX DETAIL

DETAIL NOTES:

FINISHED GRADE -----

GROUT FILL (TYPICAL) -----

PROVIDE EXTENSIONS AS

(1) PULL BOX —

CONDUIT -----

REQUIRED -

1 ¹/₅" MIN. DIA.

DRAIN ROCK -

NO SCALE

SAND BACKFILL -

GENERAL NOTES:

ARCHITECT'S SATISFACTION.

[NATIVE SOIL]

1. SIZE(S) & MFGR. AS NOTED ON DRAWINGS.

- DETAIL NOTES:
- 1 PULLCAN, NEMA 4 LOCKABLE.
- 2 CONDUIT STRAP
- 3 FINISHED ROOF.
- 4 4 x 4 SLEEPER, SET IN MASTIC.
- RIGID STEEL CONDUITS. 5
- PRESSURE TREATED LUMBER. 6

### **TYPICAL TRENCH SECTION**

PERPENDICULAR TO STREET CENTERLINE, WHEN PRACTICAL.

MAY BE SUBSTITUTED FOR BASE MATERIAL.

ASPHALTIC CONCRETE RESURFACING;

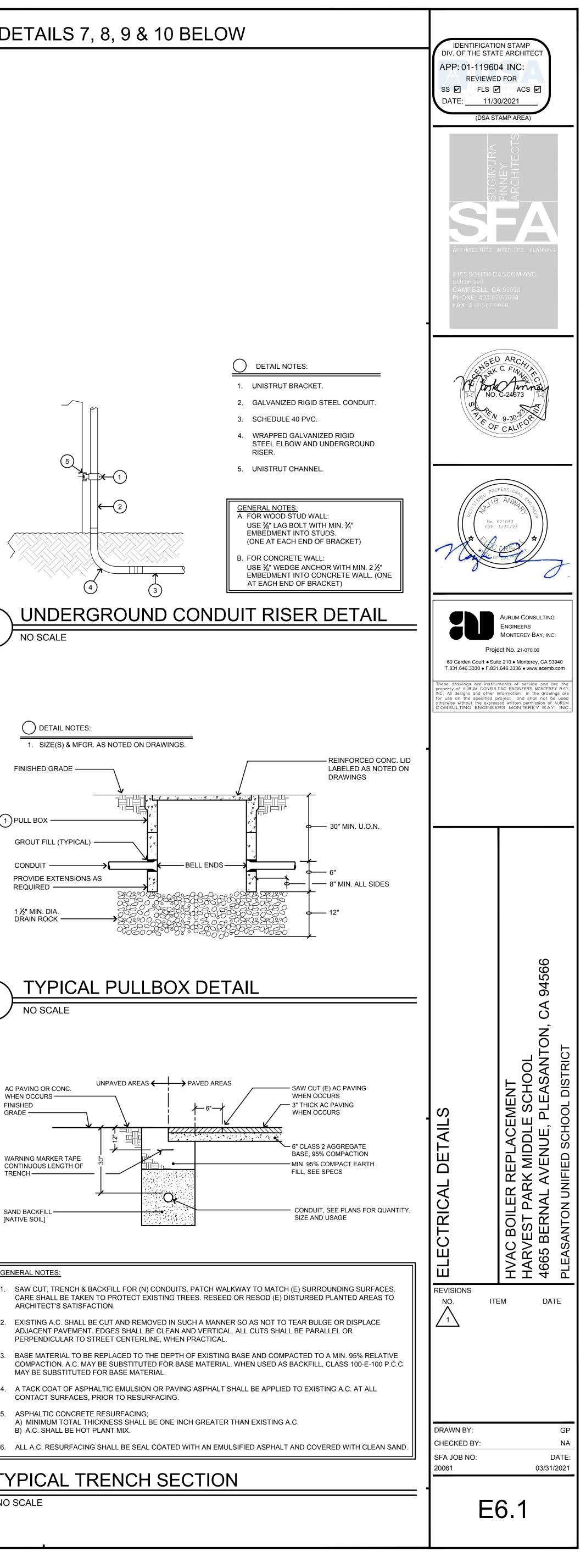
B) A.C. SHALL BE HOT PLANT MIX.

CONTACT SURFACES, PRIOR TO RESURFACING.

ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL. ALL CUTS SHALL BE PARALLEL OR

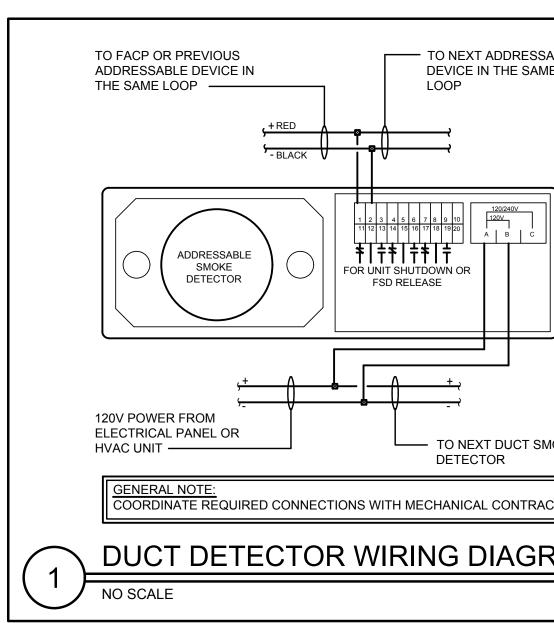
A) MINIMUM TOTAL THICKNESS SHALL BE ONE INCH GREATER THAN EXISTING A.C.

NO SCALE

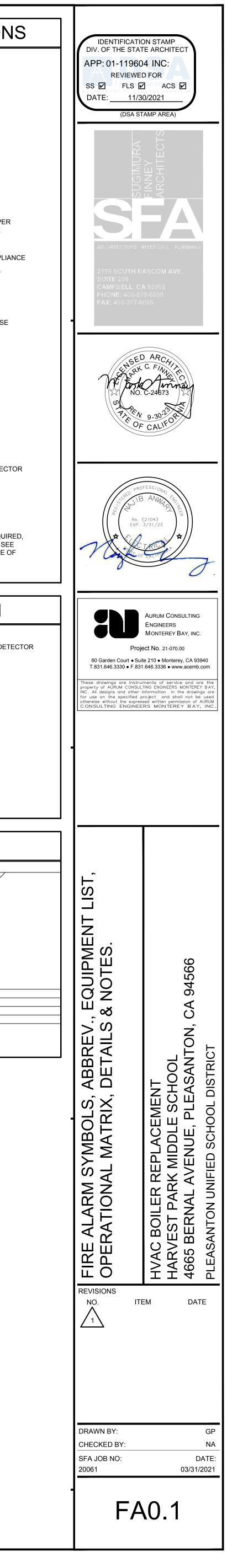


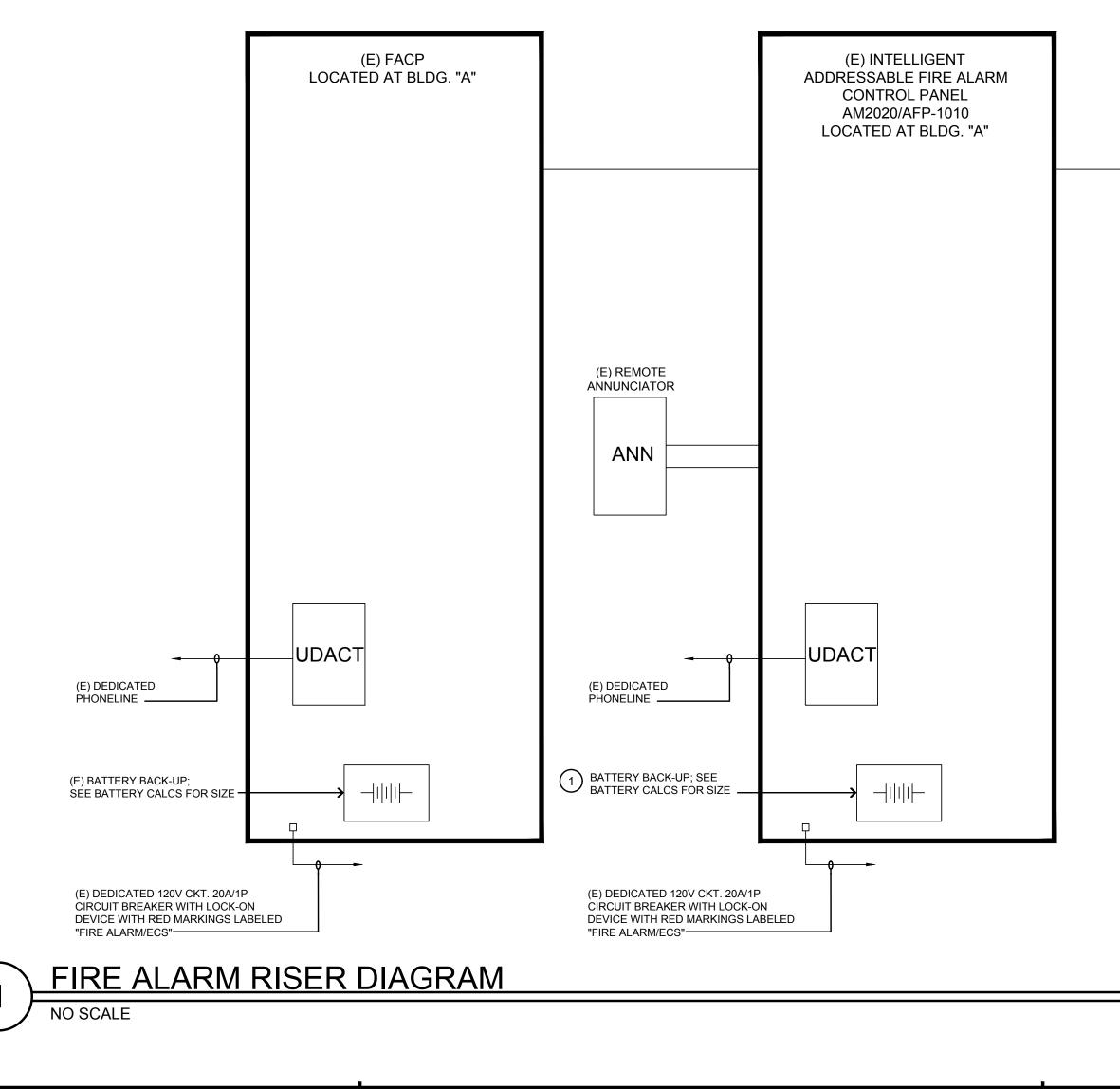
PYRIGHT © 2021

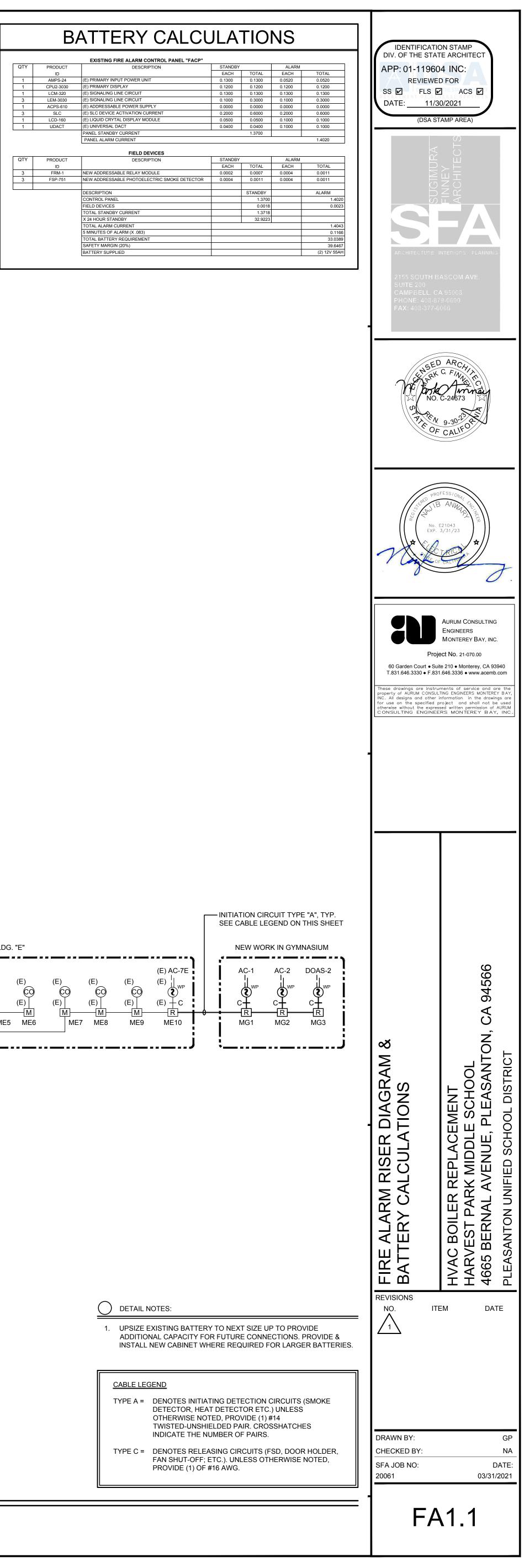
	FIRE ALARM EQUI	PMENT	LIS
SYMBOL	DESCRIPTION AND MODEL NUMBER	MFGR'S PART No.	CSI
FACP	EXISTING FIRE ALARM CONTROL PANEL, NOTIFIER AM2020/AFP-1010 SERIES.	AM2020/AFP-1010	716
R	INTELLIGENT ADDRESSABLE RELAY MODULE, NOTIFIER FRM-1 SERIES.	FRM-1	7300
2	INTELLIGENT ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR, NOTIFIER FSP-751 SERIES.	FSP-751	7272
2	WATERTIGHT PHOTOELECTRIC DUCT SMOKE DETECTOR HOUSING, NOTIFIER DNRW SERIES.	DNRW	3240

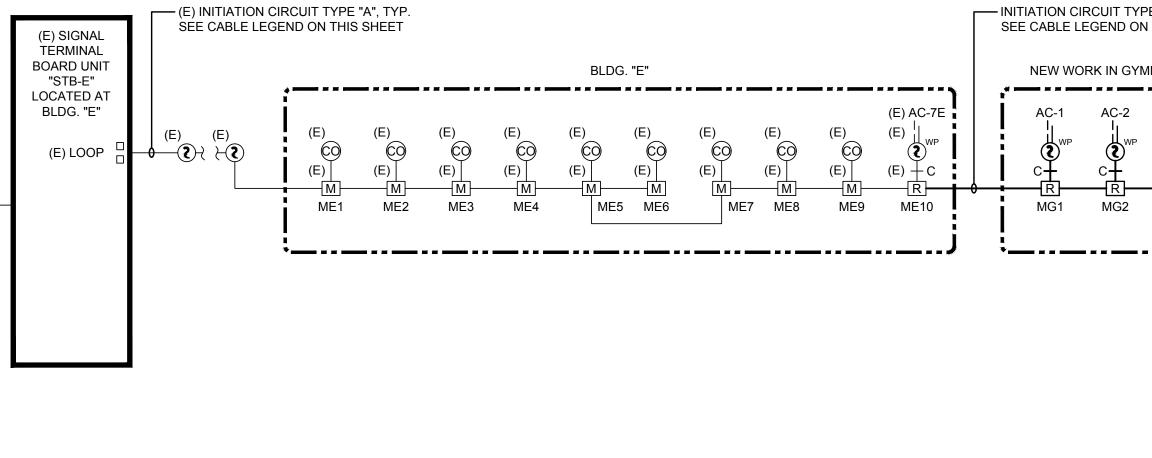


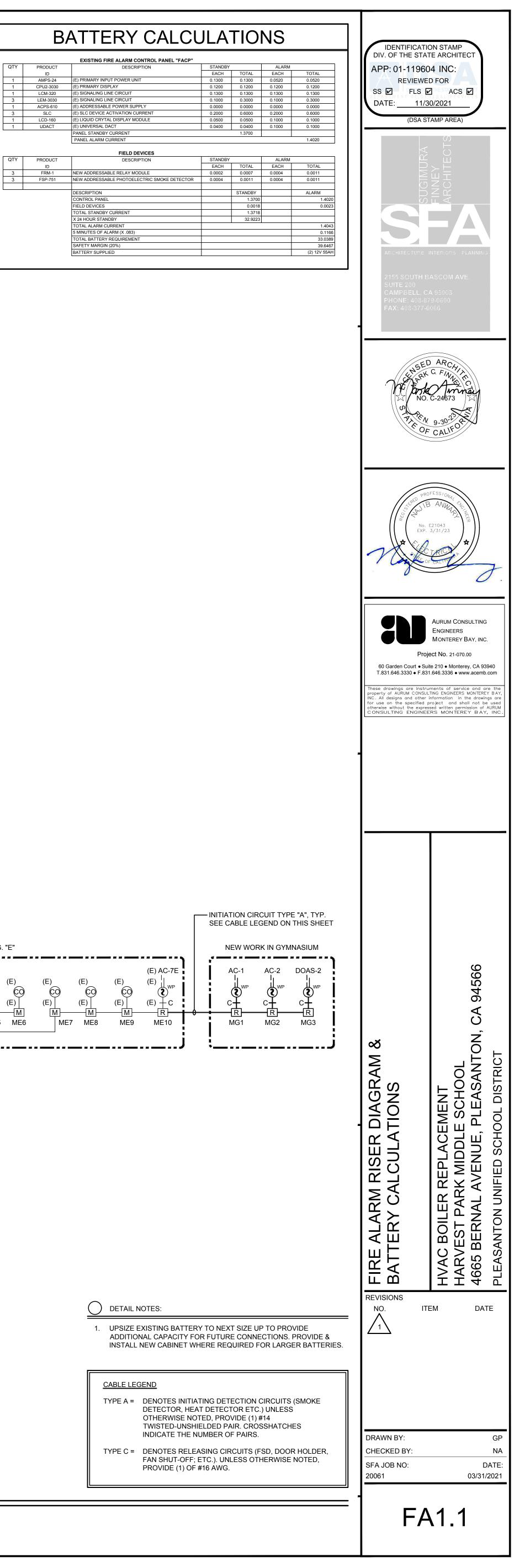
ST	FIRE ALARM GENERAL NOTES	SYMBOLS & ABBREVIATION
SFM LISTING	1. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.	<u>SYMBOLS</u>
65-0028-0141	2. WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).	CONDUIT - CONCEALED IN WALLS OR CEILING.     CONDUIT - IN OR BELOW FLOOR: 3/4"C MIN.
00-0028:0219	3. UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.	CONDUIT CONTINUATION.
	4. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY	201 ROOM NUMBER.
72-0028:0206	NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4." 5. THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN	2 SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME
240:1653:0209	5. THE CONDULT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.	SHEET. 2 E1 DETAIL OR SECTION DESIGNATION.
	6. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS	ABBREVIATIONS ARCH. ARCHITECT FSD FIRE SMOKE DAMPER
	REQUIRING PROTECTED OPENINGS. 7. ALL DEVICES SHALL BE "CSFM" LISTED.	AWG AMERICAN WIRE IDC INITIATING DEVICE GAUGE CIRCUITS
	<ol> <li>8. EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."</li> </ol>	BKR         BREAKER         (N)         NEW           C         CONDUIT         NAC         NOTIFICATION APPLIA
	9. AUDIBLE ALARM PRODUCED BY "FACP" SHALL SOUND THE CALIFORNIA	CB     CIRCUIT BREAKER     CIRCUITS       CKT     CIRCUIT     NIC     NOT IN CONTRACT
	UNIFORM SIGNAL IN TEMPORAL MODE. 10. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15DBA ABOVE THE	CLG     CEILING     NO     NUMBER       (E)     EXISTING     SLC     SIGNALING LINE       EOL     END OF LINE     CIRCUITS
	AVERAGE SOUND LEVEL. 11. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A	EOL END OF LINE TYP TYPICAL FA FIRE ALARM UON UNLESS OTHERWISE
	<ul> <li>SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE.</li> <li>12. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED</li> </ul>	FACP FIRE ALARM NOTED CONTROL PANEL WP WEATHERPROOF FBO FURNISHED BY OTHERS
	2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.	TYPICAL ZONE NOMENCLATURE
	13. APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF	"S2" DENOTES SIGNAL CIRCUIT #2
	REGULATION SERVICES." CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE	
	INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.	"4" DENOTES DEVICE #4
	14. FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR). BOTH THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM	DEVICE "1" DENOTES LOOP#
	TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD	
	<ul><li>(IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.</li><li>15. POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A</li></ul>	
	RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." 16. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY	SUBSCRIPT LETTER INDICATES TYPE OF CIRCUIT. SE GENERAL NOTES THIS SHEET FOR NUMBER & TYPE ( WIRES AND CIRCUIT TYPE.
	AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS	
	LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.	PROJECT DESCRIPTION
		SCOPE OF WORK:
		EXTENSION OF INITIATION DETECTION CIRCUIT FOR ADDITION DUCT SMOKE DET
		DEVICES FOR REPLACEMENT OF A/C UNITS. SYSTEM DESCRIPTION:
		SLC = CLASS B IDC = CLASS B NAC = CLASS B
		DESIGN BY: NAJIB ANWARY, PE.
		NAJID ANWART, FE.
SABLE ME		
		OPERATIONAL MATRIX
		ALARM TROUBLE SUPERVISORY MISC.
MOKE		
ACTOR.	CAUSE     DUCT SMOKE DETECTORS     Image: Color of the state	/ 3/3/3/3/ 18/6/6/6/3/2/3/8/ REMARKS
	SIGNAL SILENCE	
RAM	AC POWER FAILURE  FIRE ALARM TROUBLE (OPEN,	
	SHORTS, OR GROUNDS) ON INITIATION OR SIGNALING CIRCUITS	

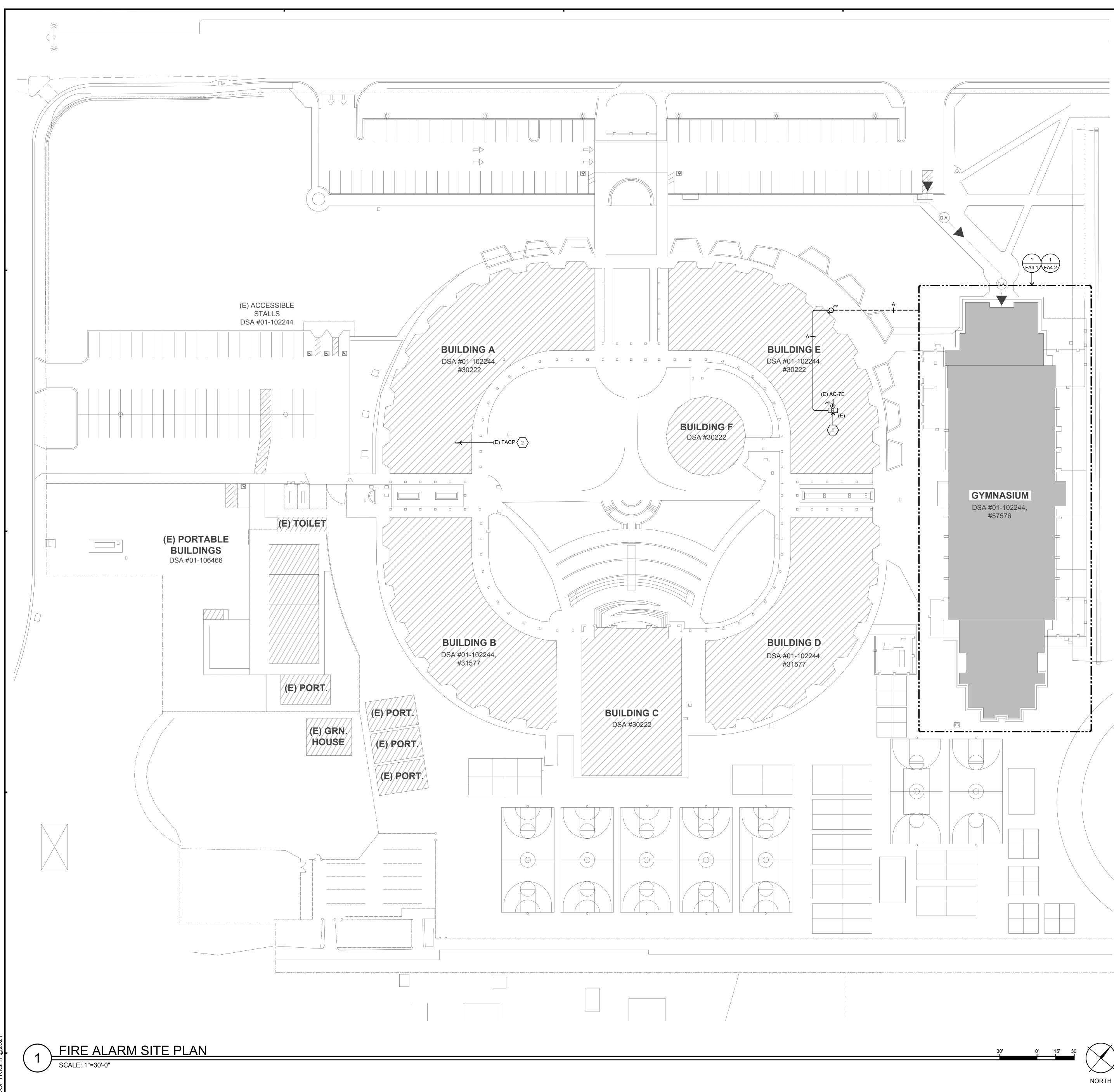












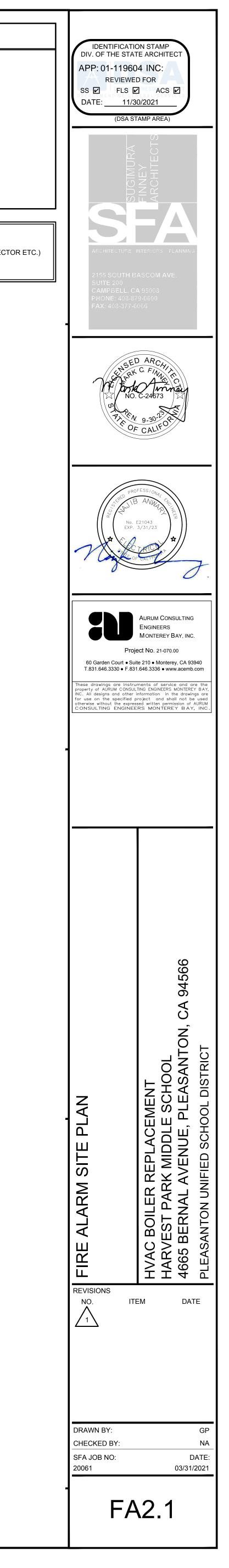
# ○ SHEET NOTES

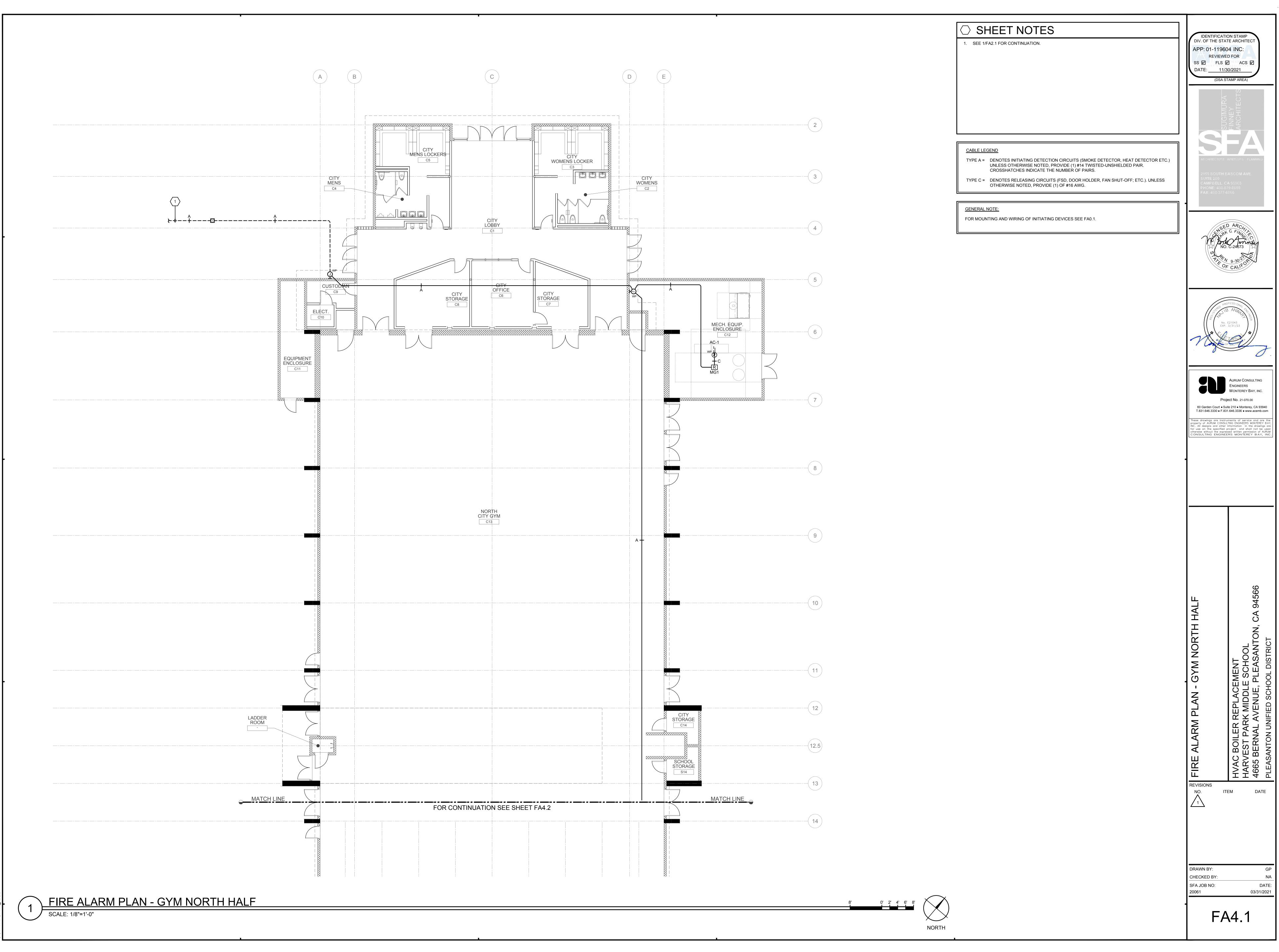
1. LOCATED ON ROOF.

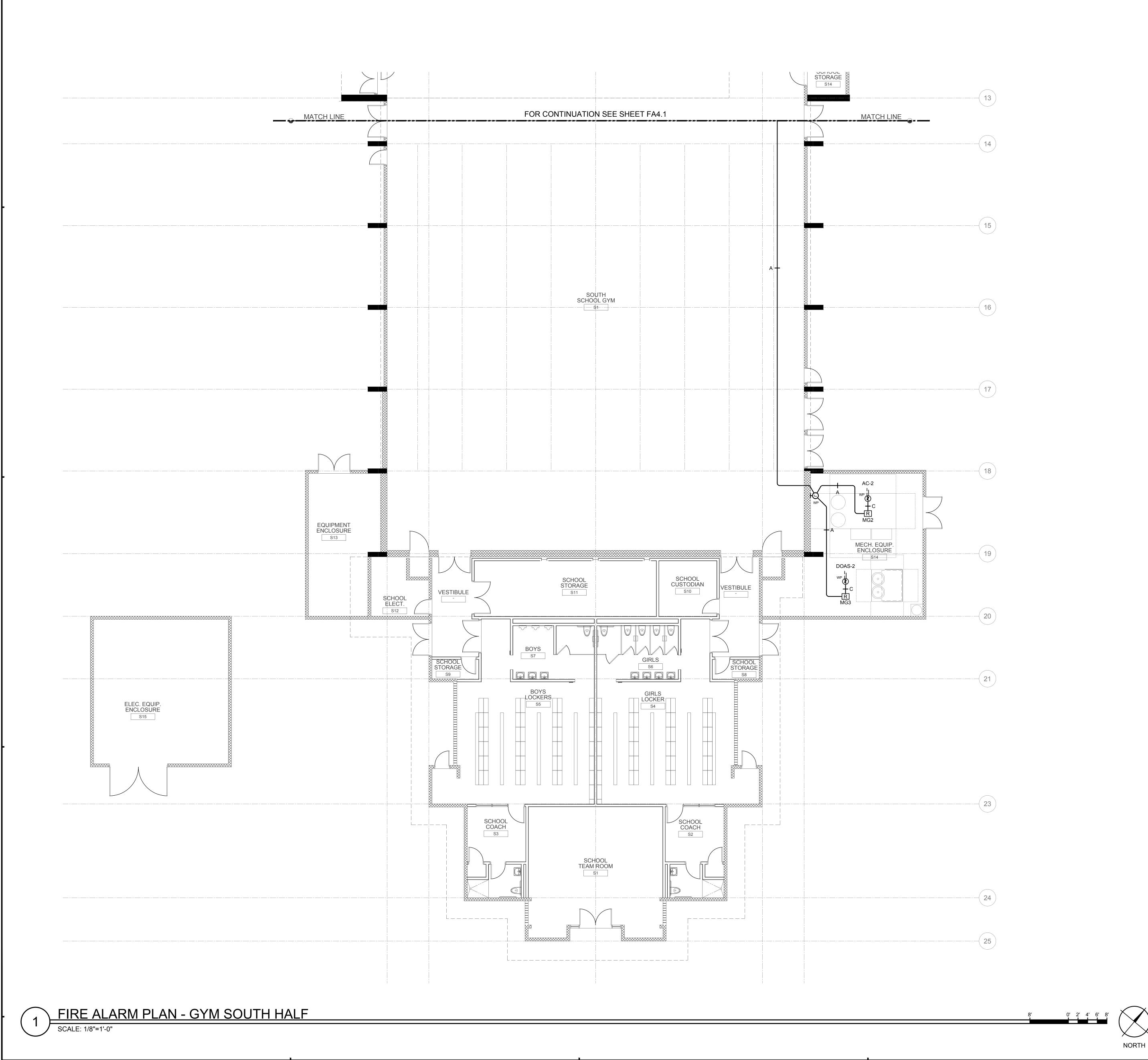
2. SHOWN FOR REFERENCE ONLY.

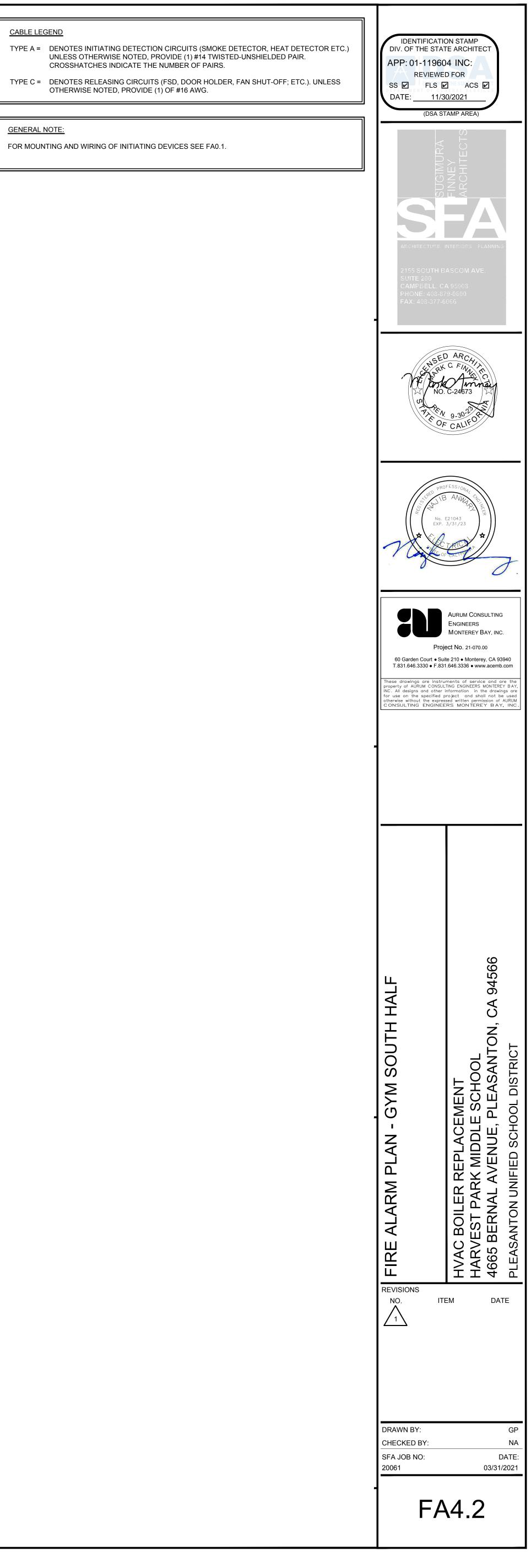
CABLE LEGEND

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.









GENERAL NOTE:

FOR MOUNTING AND WIRING OF INITIATING DEVICES SEE FA0.1.