

ROSEMEAD SCHOOL DISTRICT
HVAC REPLACEMENT AT BUILDINGS "C","E","F","J" AND "K"
AT
MUSCATEL MIDDLE SCHOOL

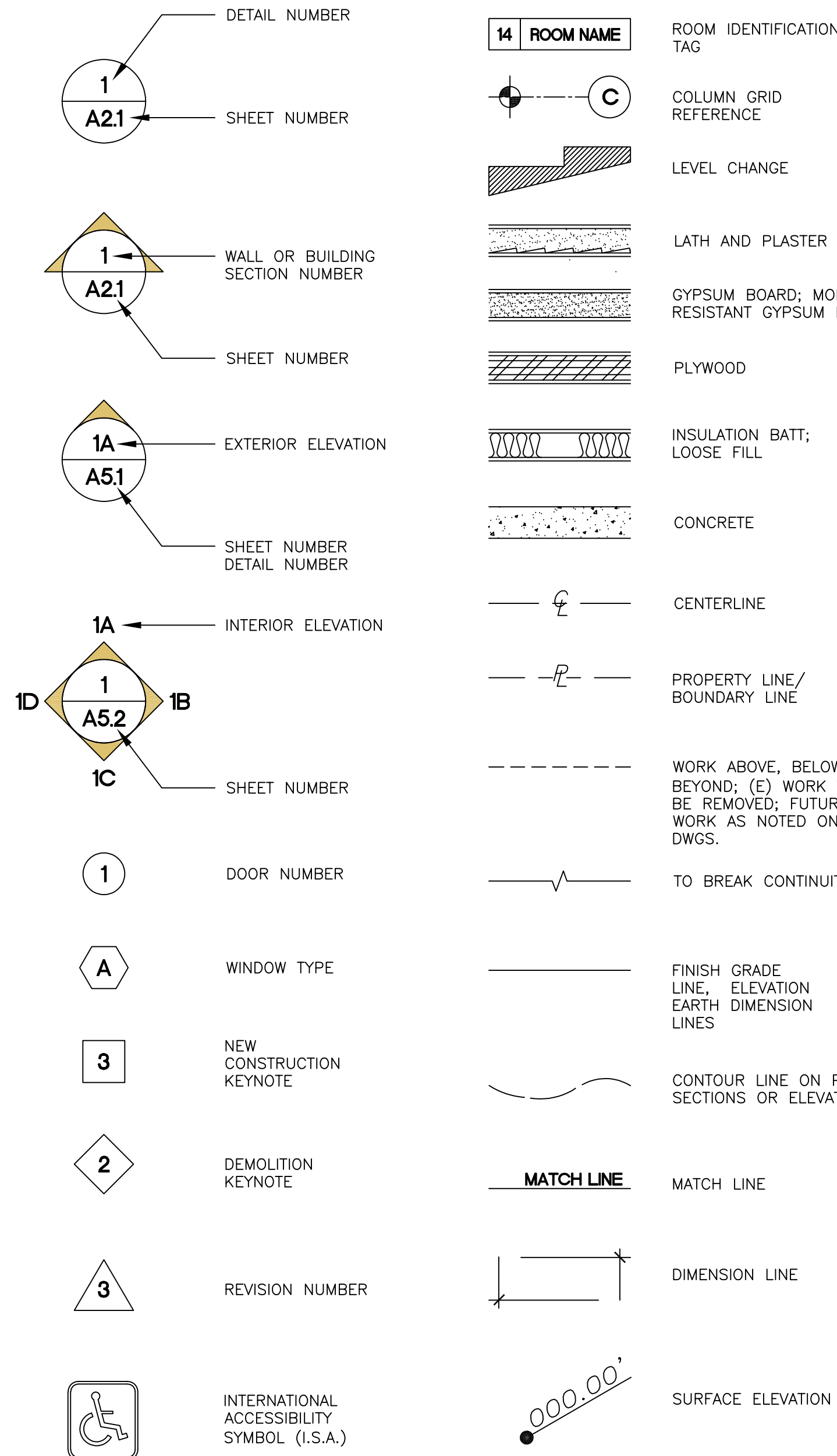
4201 IVAR AVE, ROSEMEAD CA 91770

FILE NO: 19-91 A# 03-122718

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2019 CALIFORNIA BUILDING CODE, PART 1 AND 2, TITLE 24 C.C.R., AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY AND THOSE CODES AND STANDARDS LISTED IN THE NOTES AND SPECIFICATIONS.
- DO NOT SCALE THE CONSTRUCTION DOCUMENTS. DIMENSIONS SHALL TAKE PRECEDENCE OVER GRAPHIC SCALES SHOWN ON THE DRAWINGS. TYPICAL DETAILS & GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. IF ADDITIONAL DIMENSIONS ARE REQUIRED, CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING. WORK WITHIN THE AREA OF DISCREPANCY OR CONFLICT SHALL NOT PROCEED UNTIL GIVEN SUCH NOTICE BY THE ARCHITECT TO RESUME CONSTRUCTION.
- SPECIFIC NOTES & DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES & TYPICAL DETAILS, WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- THIS SHEET IS ONE OF A SET OF DOCUMENTS WHICH INCLUDES, BUT IS NOT LIMITED TO, DRAWINGS, SPECIFICATIONS & ADDENDA ADDRESSING ALL TRADES. FULLY COORDINATE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND/OR MECHANICAL DRAWINGS, DETAILS & SPECIFICATIONS TO ASCERTAIN THE FULL SCOPE OF THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FURNISH COMPLETE SET OF CONSTRUCTION DOCUMENTS TO ALL BIDDERS. ALL BIDDERS SHALL REVIEW THE FULL SET OF CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING BIDS FOR THE WORK. ANY INCONSISTENCIES OR CONFLICTING INFORMATION INCORPORATED INTO THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATIONS AND/OR ADJUSTMENTS BEFORE COMMENCING WORK.
- WHERE APPLICABLE, REFER TO THE PROJECT SPECIFICATION MANUAL FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE DRAWINGS. INFORMATION GIVEN IN ONE PORTION OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED TO BE GIVEN IN ALL CONTRACT DOCUMENTS.
- THE DRAWINGS & SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE(S) OR MODIFICATION TO AN EXISTING STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
GENERAL CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.
ADDENDA: CHANGES OR ALTERATIONS OF THE APPROVED PLANS OR SPECIFICATIONS PRIOR TO LETTING A CONSTRUCTION CONTRACT FOR THE WORK INVOLVED SHALL BE MADE BY MEANS OF ADDENDA WHICH SHALL BE SUBMITTED TO & APPROVED BY DSA PRIOR TO DISTRIBUTION TO CONTRACTORS. ORIGINAL COPIES OF ADDENDA SHALL BE STAMPED & SIGNED BY THE ARCHITECT OR ENGINEER IN CHARGE OF PREPARATION OF THE PLANS & SPECIFICATIONS & BY THE ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR THE PORTION AFFECTED BY THE ADDENDA. [SEE SECTION 4-317(c)] ONE COPY OF EACH ADDENDUM IS REQUIRED FOR THE FILES OF DSA.
CONSTRUCTION CHANGE DOCUMENT (CCD): CHANGES OR ALTERATIONS OF THE APPROVED PLANS OR SPECIFICATIONS AFTER A CONTRACT FOR THE WORK HAS BEEN LET SHALL BE MADE ONLY BY MEANS OF CCD SUBMITTED TO & APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON. CCDs SHALL STATE THE REASON OF THE CHANGE & THE SCOPE OF WORK TO BE ACCOMPLISHED, & WHERE NECESSARY, SHALL BE ACCOMPANIED BY SUPPLEMENTARY DRAWINGS REFERENCED IN THE TEXT OF THE CCD. ALL CCDs & SUPPLEMENTARY DRAWINGS SHALL BE STAMPED & SIGNED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION OF THE PROJECT & BY THE ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR OBSERVATION OF THE PORTION OF THE WORK OF CONSTRUCTION AFFECTED BY THE CCD. SHALL BEAR THE APPROVAL OF THE DISTRICT & SHALL INDICATE THE ASSOCIATED CHANGE IN THE PROJECT COST. IF ANY, ONE COPY OF EACH CCD IS REQUIRED FOR THE FILES OF DSA.
VOIDANCE OF APPLICATION: ANY CHANGE, ERASURE, ALTERATION, OR MODIFICATION OF ANY PLANS OR SPECIFICATIONS BEARING THE STAMP OF DSA WILL RESULT IN VOIDANCE OF THE APPROVAL OF THE APPLICATION. HOWEVER, THE WRITTEN APPROVAL OF PLANS MAY BE EXTENDED BY DSA TO INCLUDE REVISED PLANS & SPECIFICATIONS AFTER DOCUMENTS ARE SUBMITTED FOR REVIEW & APPROVED. (SEE SECTION 4-323 FOR REVISED PLANS & SECTION 4-338 FOR ADDENDA & CHANGE ORDERS).
- PERFORMANCE OF THE WORK:
THE CONTRACTOR SHALL CAREFULLY STUDY THE APPROVED PLANS & SPECIFICATIONS & SHALL PLAN A SCHEDULE OF OPERATIONS WELL AHEAD OF TIME. IF AT ANY TIME IT IS DISCOVERED THAT WORK IS BEING DONE WHICH IS NOT IN ACCORDANCE WITH THE APPROVED PLANS & SPECIFICATIONS, THE CONTRACTOR SHALL CORRECT THE WORK IMMEDIATELY. ALL INCONSISTENCIES OR ITEMS WHICH APPEAR IN ERROR IN THE PLANS & SPECIFICATIONS SHALL BE PROMPTLY CALLED TO THE ATTENTION OF THE ARCHITECT OR REGISTERED ENGINEER. THROUGH THE INSPECTOR, FOR INTERPRETATION OR CORRECTION. IN NO CASE, HOWEVER, SHALL THE INSTRUCTION OR REGISTERED ENGINEER BE CONSTRUED TO CAUSE WORK TO BE DONE WHICH IS NOT IN CONFORMITY WITH THE APPROVED PLANS, SPECIFICATIONS, AND CHANGE ORDERS. THE CONTRACTOR MUST NOTIFY THE PROJECT INSPECTOR, IN ADVANCE, OF THE COMMENCEMENT OF CONSTRUCTION OF EACH AND EVERY ASPECT OF THE WORK. SUBSTITUTIONS SHALL BE CONSIDERED AS A CHANGE ORDER.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS & SITE CONDITIONS BEFORE STARTING WORK. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW & CLARIFICATION OF THE ARCHITECT. APPROVAL OF PLANS MAY BE EXTENDED BY DSA TO INCLUDE REVISED PLANS & SPECIFICATIONS AFTER DOCUMENTS ARE SUBMITTED FOR REVIEW & APPROVED. (SEE SECTION 4-323 FOR REVISED PLANS & SECTION 4-338 FOR ADDENDA & CHANGE ORDERS).
- ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS REPRESENTING THE BEST INFORMATION CURRENTLY AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR & SUBCONTRACTOR SHALL CAREFULLY EXAMINE THE SITE, COMPARE THE CONSTRUCTION DOCUMENTS WITH THE EXISTING CONDITIONS, BE RESPONSIBLE FOR ACCURACY OF ALL DIMENSIONS & THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH THE SCOPE OF WORK BY THE ACT OF SUBMITTING A BID. THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH AN EXAMINATION, HAVE ACCEPTED THE CONDITIONS & HAVE INCLUDED ALL RELATED SITE/BUILDING(S) CONDITION COST IN HIS/HER BID.
- NO PART OF THESE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS REQUIRING OR PERMITTING ANY WORK CONTRARY TO THE REQUIREMENTS OF ANY CODE REGULATION OR ORDINANCE WHICH HAS JURISDICTION OVER THE WORK.
- ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE THE CONSTRUCTION STANDARDS ABBREVIATION OR SYMBOLS. IF ANY, THE CONTRACTOR HAS A QUESTION REGARDING THE SAME OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE(S) DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACES, SHORES & GUYS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE & COMPONENTS, ADJACENT SOLS OR STRUCTURES, UTILITIES & RIGHT-OF-WAYS MAY BE SUBJECTED DURING CONSTRUCTION.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, THE CONTRACTOR SHALL ASSUME SOLE & COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY OF ALL PERSONS & PROPERTY ACCORDING TO THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) & CALIFORNIA OCCUPATIONAL REGULATIONS. THIS STIPULATION SHALL BE CONSIDERED TO BE CONTINUOUS & NOT LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL INDEMNIFY & HOLD DESIGN PROFESSIONALS, INSPECTORS, ET AL., HARMLESS FROM ANY & ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN.
- THE DESIGN TEAM SHALL NOT HAVE CONTROL OR CHARGE OF A SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE WORK. THE ACTS OR OMISSIONS OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES AND STANDARDS.
- CONTRACTOR SHALL PROVIDE CONSTRUCTION BARRICADES OR PROTECTIVE DEVICES OF SUFFICIENT HEIGHT & MAGNITUDE AS TO PREVENT ANY PERSONS OF ANY AGE FROM ACCIDENTALLY ENTERING THE WORK AREA, PROVIDE TEMPORARY PASSAGEWAYS AS REQUIRED, YELLOW TAPE BARRICADES SHALL NOT BE ALLOWED AT THESE SITES.
- DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE & REMOVAL OF WASTE FROM THE SITE SHALL BE COORDINATED WITH THE DISTRICT FOR AN ACCEPTABLE ACCESS ROUTE & SCHEDULE. USE OF THE AREA OUTSIDE THE CONSTRUCTION ZONE SHALL NOT BE ALLOWED UNDER ANY CIRCUMSTANCES WITHOUT CLEARANCE FROM THE SCHOOL DISTRICT OR THE OWNER'S AUTHORIZED REPRESENTATIVE.
- CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING & EARTHWORK OPERATIONS, AS MAY BE REQUIRED BY THE SCOPE OF THE WORK, FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SYSTEMS, UTILITIES OR FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
- IN DEMOLITION OF EXISTING BUILDINGS, WORK SHALL NOT BE PERFORMED IN AREA CONTAMINATED BY MATERIALS MADE OF ASBESTOS &/OR LEAD UNTIL THE ASBESTOS AND/OR LEAD MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED BY THE CONTRACTOR, IF ASBESTOS OR LEAD IS ENCOUNTERED, NOTIFICATION SHALL BE GIVEN PER SPECIFICATIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE SHOP DRAWINGS, PRODUCT LITERATURE, PRODUCT SAMPLES, ETC., ARE SUBMITTED TO THE ARCHITECT IN A TIMELY MANNER SO AS NOT TO IMPACT THE CONSTRUCTION SCHEDULE.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MECHANICAL BREAKDOWN.
- CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS BEFORE PERFORMING THE WORK SHOWN ON THE CONSULTING ENGINEER'S DRAWINGS. DISCREPANCIES BETWEEN THE ARCHITECTURAL & CONSULTING ENGINEER'S DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION & DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE DISTRICT.
- INSTALL ALL EQUIPMENT COMPLETELY AS REQUIRED AND/OR AS RECOMMENDED BY THE MANUFACTURER, INCLUDING ALL NECESSARY UTILITY CONNECTIONS, TO MAKE THE EQUIPMENT FULLY OPERATIONAL.
- TRADE NAMES & MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTION WILL BE PERMITTED AS APPROVED BY THE SCHOOL DISTRICT OR ARCHITECT OF RECORD. CONTRACTOR SHALL STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE & COMPLY WITH THE APPLICABLE CODES & REGULATIONS. SUBSTITUTIONS OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO THE DISTRICT.
- ELECTRICAL GROUNDING SHALL BE PERFORMED IN THE PRESENCE OF THE DSA BUILDING INSPECTOR OF THE WORK.
- ALL INSPECTION & TESTING SHALL CONFORM TO THE REQUIREMENTS OF PART 1 & 2, TITLE 24, C.C.R.
- SHOP AND FIELD WELDING OPERATIONS SHALL BE PERFORMED BY A CERTIFIED WELDER. ALL WELDING SHALL SPECIALLY INSPECTED BY AN AWS-CW QUALIFIED INSPECTOR APPROVED BY DSAORS.
- GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COORDINATION OF THE VARIOUS TRADES PERFORMING THE WORK. CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPLETE COORDINATION SCHEDULE ILLUSTRATING THE EXTENT & THE POSITION OF EACH SCOPE OF WORK TO AVOID CONFLICT & TO MAINTAIN REQUIRED SERVICE ACCESS & CODE REQUIRED CLEARANCES.
- THE DISTRICT MUST PROVIDE FOR A REQUIRE COMPETENT, ADEQUATE, & CONTINUOUS INSPECTION BY AN INSPECTOR SATISFACTORY TO THE ARCHITECT OR REGISTERED ENGINEER IN GENERAL RESPONSIBLE CHARGE OF OBSERVATION OF THE WORK OF CONSTRUCTION. TO ANY ARCHITECT OR REGISTERED ENGINEER DELEGATED RESPONSIBILITY FOR A PORTION OF THE WORK, & TO DSA, THE COST OF THE PROJECT INSPECTION SHALL BE PAID FOR BY THE DISTRICT. AN INSPECTOR SHALL NOT HAVE ANY CURRENT EMPLOYMENT WITH ANY ENTITY THAT IS A CONTRACTING PARTY FOR THE CONSTRUCTION. AN APPROVED PROJECT INSPECTOR MAY BE REMOVED & REPLACED IF THE WORK PERFORMED IS NOT IN CONFORMANCE WITH ACCEPTED INSPECTION STANDARDS AS DETERMINED BY THE DISTRICT. THE PROJECT ARCHITECT & ENGINEER WITH CONCURRENCE OF DSA, THE INSPECTOR SHALL HAVE PERSONAL KNOWLEDGE AS DEFINED IN SECTIONS 17309 & 8141 OF THE EDUCATION CODE OF ALL WORK DONE ON THE PROJECT OR ITS PARTS AS DEFINED IN SECTION 4-319 OF TITLE 24. NO WORK SHALL BE CARRIED ON EXCEPT UNDER THE INSPECTION OF A PROJECT INSPECTOR APPROVED BY DSA. THE EMPLOYMENT OF SPECIAL OR ASSISTANT INSPECTORS SHALL NOT BE CONSTRUED AS RELIEVING THE PROJECT INSPECTOR OF HIS/HER DUTIES & RESPONSIBILITIES UNDER SECTION 17309 & 8141 OF THE EDUCATION CODE AND SECTIONS 4-338 & 4-342 OF TITLE 24. A PROJECT INSPECTOR SHALL, UNDER THE DIRECTION OF THE ARCHITECT AND/OR ENGINEER, BE RESPONSIBLE FOR MONITORING THE WORK OF THE SPECIAL INSPECTORS AND TESTING LABORATORIES TO ENSURE THAT THE TESTING PROGRAM IS SATISFACTORYLY COMPLETED. THE PROJECT INSPECTOR AND ANY ASSISTANT INSPECTOR MUST BE APPROVED BY DSA.
- THE INTENT OF THE DRAWINGS & SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONSTRUCTION DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, C.C.R. A CCD DETAILING & SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO & APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK-SECTION 4-417, PART 1, TITLE 24, C.C.R.
- 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, C.C.R. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEN FINISHED WORK WILL NOT COMPLY WITH TITLE 24, C.C.R. A CCD OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS IS NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED & APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER & THE DSA FIELD ENGINEER IF DETAILS DO NOT SHOW OR CONFORM TO THE APPROVED DRAWINGS.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS & INSPECTION FOR THE PROJECT.

GENERAL SYMBOLS



SHEET INDEX

NO.	SHT. NO.	SHEET TITLE
01	G0.1	TITLE SHEET, INDEX TO DRAWINGS AND NOTES
02	A101	SITE PLAN
03	A5.01	ROOF DETAIL
04	S0.01	SHEET INDEX, SYMBOLS AND ABBREVIATIONS
05	S0.02	STRUCTURAL GENERAL NOTES
06	S0.03	STRUCTURAL GENERAL NOTES
07	S1.01	OVERALL SITE/ KEY PLAN
08	S2.01	BUILDING C ROOF FRAMING PLAN
09	S2.02	BUILDING E ROOF FRAMING PLAN
10	S2.03	BUILDING F ROOF FRAMING PLAN
11	S2.04	BUILDING J & K ROOF FRAMING PLAN
12	S4.01	EQUIPMENT SUPPORT DETAILS
13	S4.02	EQUIPMENT SUPPORT DETAILS
14	M001	GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SHEET INDEX
15	M002	SCHEDULES - MUSCATEL
16	M101	MECHANICAL SITE PLAN MUSCATEL
17	M601	DETAILS
18	M602	DETAILS
19	M701	TITLE 24 COMPLIANCE FORMS - MUSCATEL
20	E001	GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SHEET INDEX
21	E002	SCHEDULES - MUSCATEL
22	E101	ELECTRICAL SITE PLAN MUSCATEL
23	E601	DETAILS

Total Sheets = 23

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2019

PART 1 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.

PART 2 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2009 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)

PART 3 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2008 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)

PART 4 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2009 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING & MECHANICAL OFFICIALS, IAPMO)

PART 5 2019 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R. (2009 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING & MECHANICAL OFFICIALS, IAPMO)

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

PART 9 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2009 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)

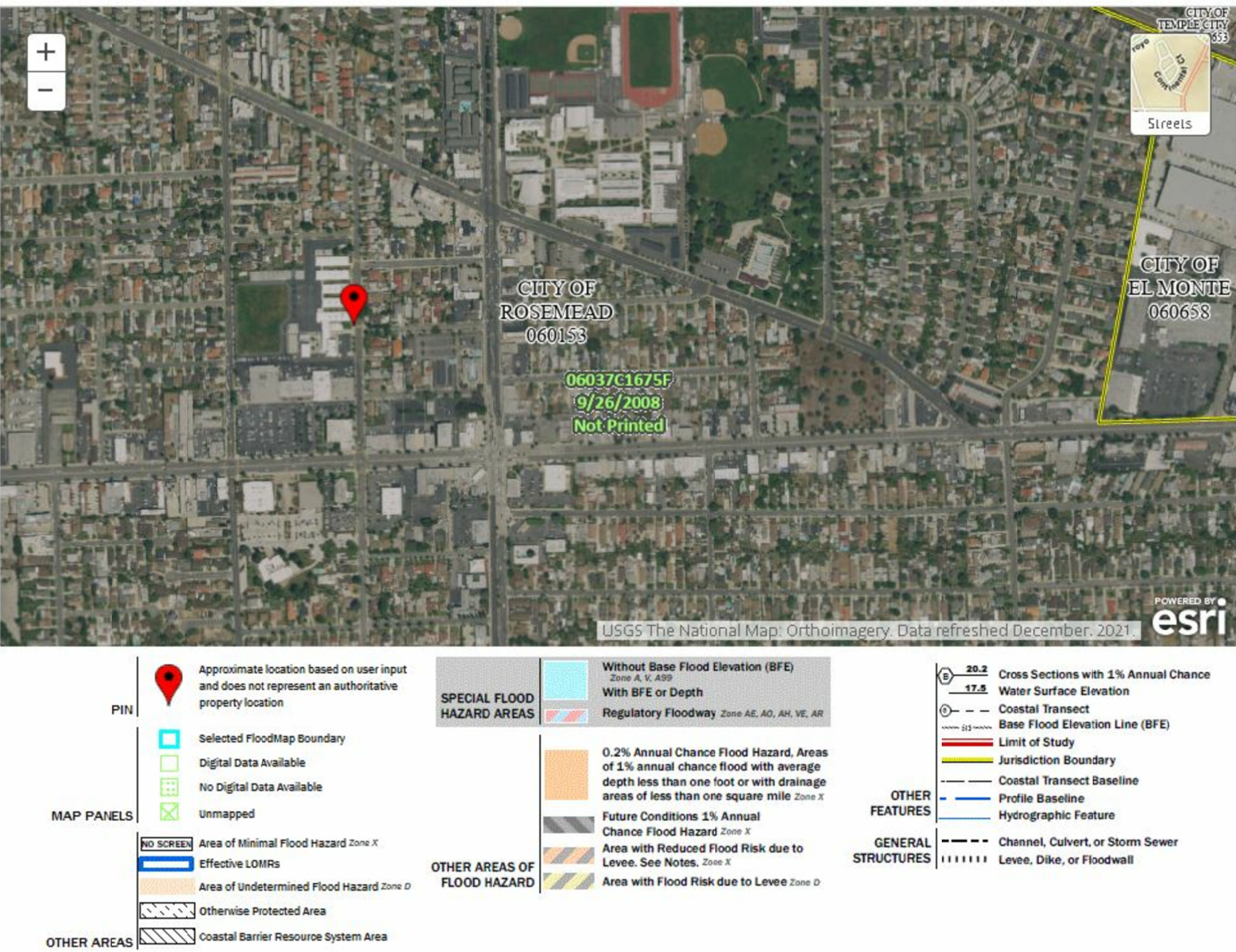
PART 12 2019 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

CODE ANALYSIS

TYPE OF CONSTRUCTION : TYPE V-B NON-SPRINKLERED
OCCUPANCY : E-1
ALLOWABLE AREA = 9,500
EXISTING AREA :
BLDGS J, K, & I COMBINED = 9,400 S.F. OK
BLDG F = 6,256 S.F. OK
BLDG E = 6,256 S.F. OK

FLOOD MAP



ARCHITECT:

NAC | ARCHITECTURE
837 NORTH SPRING ST. THIRD FLOOR
LOS ANGELES, CA. 90012-2323
TEL: 323.475.8075
FAX: 323.859.3110
CONTACT: GARY CHRISTOFI
EMAIL: gchristofi@nacarchitecture.com

STRUCTURAL:

KPFF
700 S FLOWER ST #1200
LOS ANGELES, CA. 90017
TEL: 213-418-0201
CONTACT: BEN SEGURA
EMAIL: benjamin.segura@kpff.com

MECHANICAL:

P2S ENG
5000 E.SPRING ST.8TH FLOOR
LONG BEACH, CA. 90815
TEL: 562-497-2999
CONTACT: ANDREW SMITH
EMAIL: andrew.smith@p2sinc.com

ELECTRICAL:

P2S ENG
5000 E.SPRING ST.8TH FLOOR
LONG BEACH, CA. 90815
TEL: 562-497-2999
CONTACT: ALLEN SLY
EMAIL: allen.sly@p2sinc.com

SCOPE OF WORK

REMOVAL AND REPLACEMENT OF EXISTING ROOF TOP HVAC UNITS OVER EXISTING CURBS AT BUILDINGS "C", "E", "F", "J" AND "K"

VICINITY MAP
MUSCATEL M.S. SITE



PROJECT SITE:
MUSCATEL MIDDLE SCHOOL

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (APPLICATION NO. A# 03-122718 FILE NO. 19-91)

(APPLICATION NO. A# 03-122718 FILE NO. 19-91)

- ☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR ASSOCIATED WITH 03-122718
☐ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 24, PART 1 (TITLE 24, PART 1, SECTION 4-317 (b))

I FIND THAT: ☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ THIS DRAWING OR PAGE

☒ I/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
☒ I/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE: _____ DATE: 11/17/2022
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

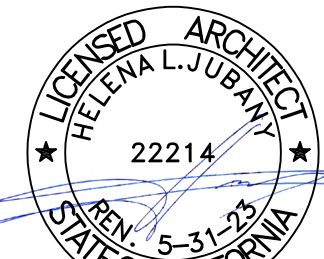
HELENA JUBANY
PRINT NAME
C-22214
LICENSE NUMBER EXPIRATION DATE: 05/31/2023

☐ I/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
☐ I/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE: _____ DATE: _____
ARCHITECT OR ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK

PRINT NAME
LICENSE NUMBER EXPIRATION DATE

TITLE SHEET, INDEX TO DRAWINGS AND NOTES



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K

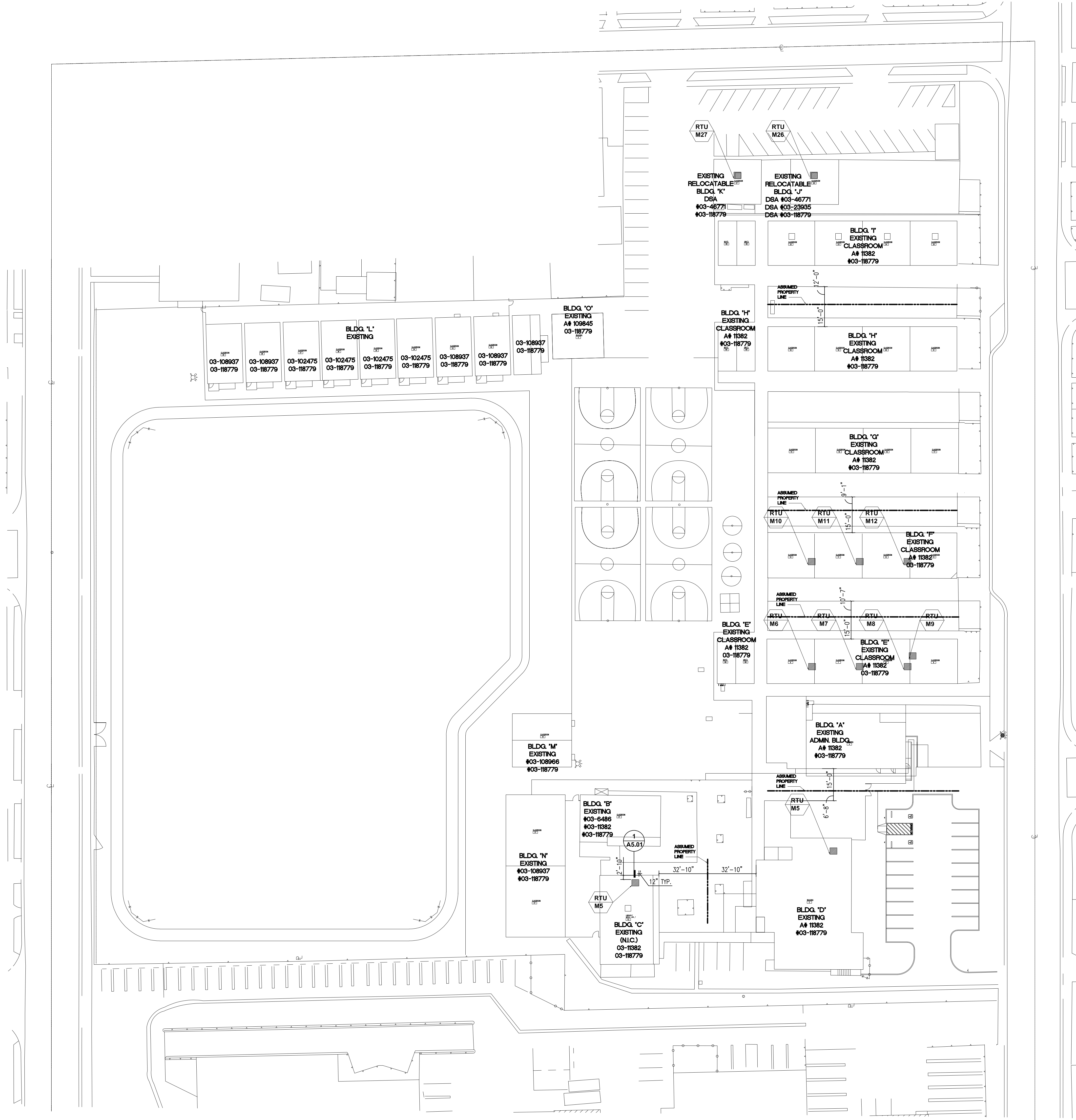


ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
4201 IVAR AVENUE
ROSEMEAD CA 91770

JUBANY
NAC
ARCHITECTURE

NAC NO: 161-21043
FILE: DSA SUBMITAL
DRAWN: -
CHECKED: -
DATE: 02-14-2023

G0.1



MUSCATEL HVAC		
BUILDINGS IN SCOPE	DSA-A#	CERTIFICATION STATUS
BLDG - C	03-11382	CERTIFIED
	03-118779	CERTIFIED
BLDG - E	03-11382	CERTIFIED
	03-118779	CERTIFIED
BLDG - F	03-11382	CERTIFIED
	03-118779	CERTIFIED
BLDG - J	03-46771	CERTIFIED
	03-23936	CERTIFIED
BLDG - K	03-118779	CERTIFIED
	03-16771	CERTIFIED

FILE NO: 19-91 A#: 03-122718



DESIGNED, SUPERSEDED AND OTHER
VARIATIONS, AND AS INSTRUMENTS OF SERVICE
AND THE PROPERTY OF THE ARCHITECT.
THESE DRAWINGS ARE NOT TO BE REPRODUCED
OR USED IN ANY MANNER WITHOUT THE
WRITTEN CONSENT OF THE ARCHITECT.
THIS DRAWING IS NOT TO BE USED FOR ANY
OTHER PROJECT WITHOUT THE WRITTEN
CONSENT OF THE ARCHITECT.

ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
4201 IVAR AVENUE
ROSEMEAD CA 91770

JUBANY
NAC
ARCHITECTURE

NAC NO: 161-21043
FILE: DSA SUBMITTAL
DRAWN: -
CHECKED: -
DATE: 02-14-2023

LEGEND

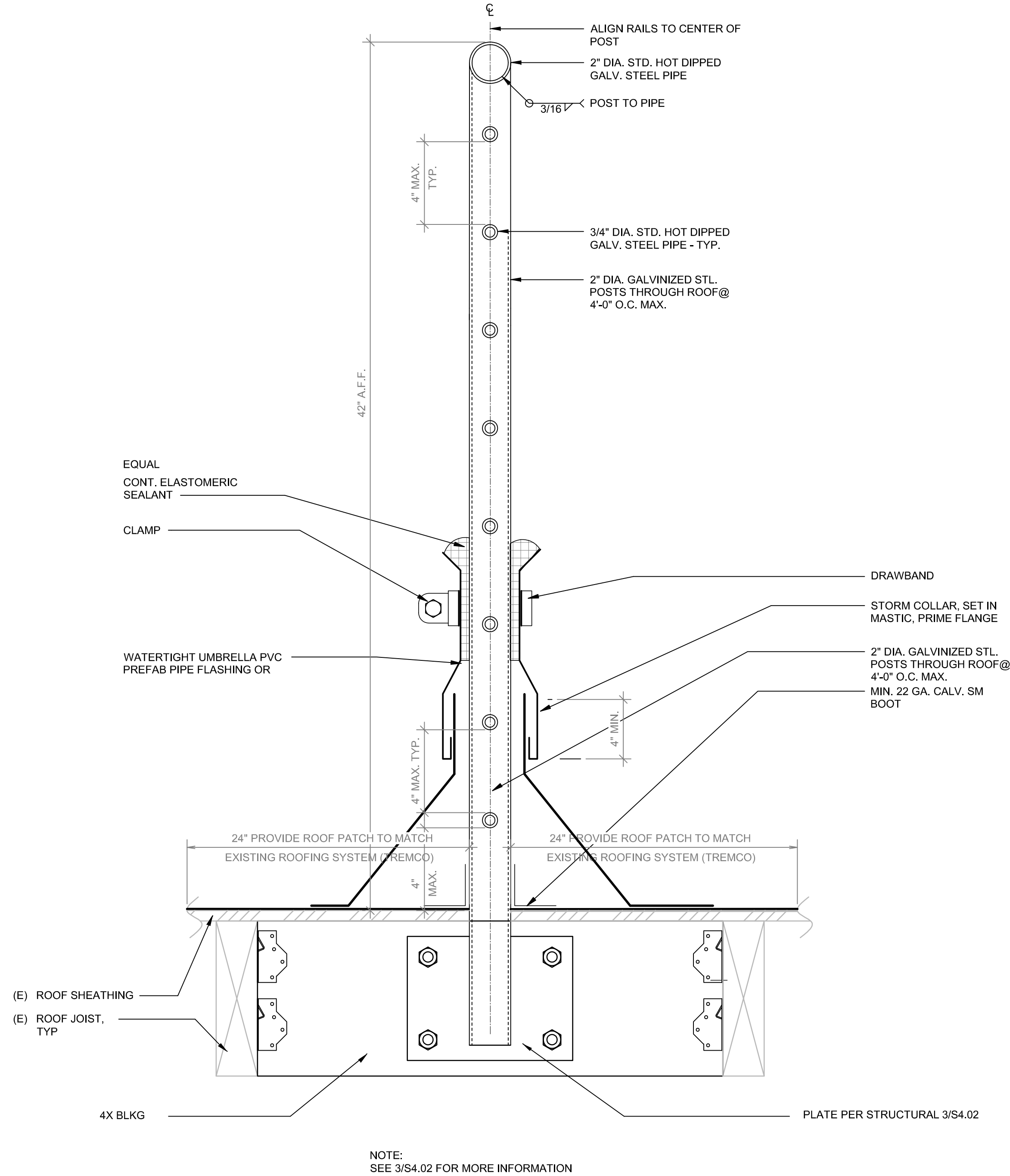
REMOVE EXISTING ROOFTOP
HVAC UNIT AND REPLACE AS
PER MECHANICAL DWGS.

SITE PLAN
SCALE: 1/32"=1'-0"

A101



DESIGNED, SPECIFICATIONS AND OTHER
VIEWS ARE, AS INSTRUMENTS OF SERVICE
AND THE PROPERTY OF THE ARCHITECT.
THESE ARE TO BE USED FOR THE PROJECT
AND NOT BE REPRODUCED OR ADAPTED
WITHOUT THE WRITTEN CONSENT OF THE
ARCHITECT. ANY REUSE OF THESE
DRAWINGS WITHOUT THE ARCHITECT'S
WRITTEN CONSENT IS PROHIBITED.
EXCEPT BY AGREEMENT IN
WRITING.



NOTE:
SEE 3/S4.02 FOR MORE INFORMATION

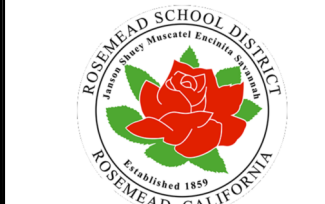
1 ROOF GUARDRAIL/FALL PROTECTION DETAIL
Scale: 3" = 1'-0"

ROOF DETAIL



DESIGNED, SPECIFICATIONS AND OTHER
VIEWS ARE, AS INSTRUMENTS OF SERVICE
AND THE PROPERTY OF THE ARCHITECT.
THESE ARE TO BE USED FOR THE PROJECT
AND NOT BE REPRODUCED OR ADAPTED
WITHOUT THE WRITTEN CONSENT OF THE
ARCHITECT. ANY REUSE OF THESE
DRAWINGS WITHOUT THE ARCHITECT'S
WRITTEN CONSENT IS PROHIBITED.
EXCEPT BY AGREEMENT IN
WRITING.

ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
4201 IVAR AVENUE
ROSEMEAD CA 91770

JUBANY
NAC
ARCHITECTURE

NAC NO	161-21043
FILE	DSA SUBMITTAL
DRAWN	-
CHECKED	-
DATE	02-14-2023

A5.01

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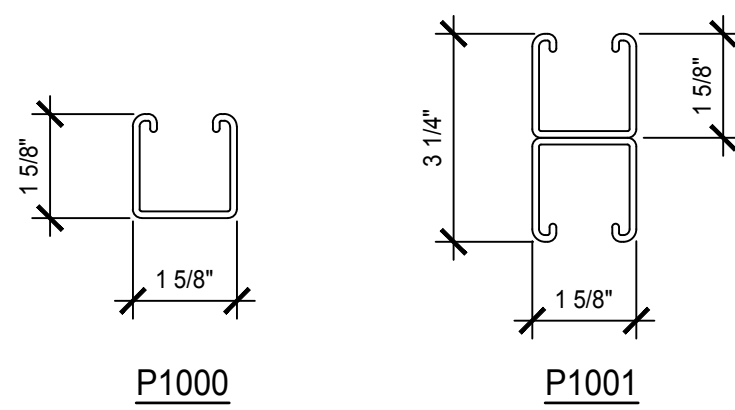
UNISTRUT METAL FRAMING

- UNISTRUT METAL FRAMING SHALL BE BY UNISTRUT CORPORATION, WAYNE, MI OR ENGINEER APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND AS NOTED ON THE DRAWINGS.
- ALL CHANNEL MEMBERS SHALL BE FABRICATED FROM STRUCTURAL GRADE STEEL CONFORMING TO ONE OF THE FOLLOWING ASTM SPECIFICATIONS:
A 1011 SS GR 33, A 635 GR 33.
- ALL FITTINGS SHALL BE FABRICATED FROM STEEL CONFORMING TO ONE OF THE FOLLOWING ASTM SPECIFICATIONS:
A 575, A 576, A 36 OR A 635.
- ALL UNISTRUT MEMBERS AND FITTINGS SHALL BE HOT DIP GALVANIZED, UNO.
- AREAS OF UNISTRUT MEMBERS WHERE GALVANIZATION HAS BEEN REMOVED TO ALLOW FOR WELDING SHALL BE COATED WITH ZINC-RICH, GALVANIZING PAINT AFTER WELDING.
- MINIMUM UNISTRUT PROPERTIES SHALL BE AS FOLLOWS:

PARAMETER	P1000	P1001
AREA OF SECTION	0.555 IN ²	1.111 IN ²
AXIS 1-1		
MOMENT OF INERTIA (I)	0.185 IN ⁴	0.928 IN ⁴
SECTION MODULUS (S)	0.202 IN ³	0.571 IN ³
RADIUS OF GYRATION (r)	0.577 IN	0.914 IN
AXIS 2-2		
MOMENT OF INERTIA (I)	0.236 IN ⁴	0.471 IN ⁴
SECTION MODULUS (S)	0.290 IN ³	0.580 IN ³
RADIUS OF GYRATION (r)	0.651 IN	0.651 IN

- BOLT TORQUE REQUIREMENTS:

BOLT SIZE	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
REC. TORQUE FT/LB	6	11	19	50	100	125
MAX TORQUE FT/LB	7	15	25	70	125	135



STRUCTURAL TESTS AND SPECIAL INSPECTIONS

- STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17A OF THE CODE.
- THE SPECIAL INSPECTOR MUST BE CERTIFIED BY DIVISION OF THE STATE ARCHITECT (DSA), IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
- THE SPECIAL INSPECTORS AND TESTING FIRM MUST BE HIRED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH COPIES TO THE BUILDING OFFICIAL, OWNER, AND STRUCTURAL ENGINEER OF RECORD. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS, OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH COPIES TO THE BUILDING OFFICIAL, COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1707A OF THE CODE FOR THE FOLLOWING ITEMS:
 - STRUCTURAL STEEL. SPECIAL INSPECTION FOR SPECIAL STEEL CONCENTRIC BRACED FRAMES AND OTHER STRUCTURAL STEEL ELEMENT THAT IS PART OF THE SEISMIC-FORCE-RESISTING SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 1707A.2 OF THE CODE AND THE QUALITY ASSURANCE PLAN REQUIREMENTS OF AISC 341.
 - ARCHITECTURAL COMPONENTS. PERIODIC SPECIAL INSPECTION DURING THE ERECTION AND FASTENING OF EXTERIOR CLADDING, EXTERIOR NONBEARING WALLS, SUSPENDED THE STRUCTURE SHALL BE IN ACCORDANCE WITH SECTION 1707A.6 OF THE CODE. CEILING SYSTEMS AND THEIR ANCHORAGE, AND INTERIOR AND EXTERIOR VENEER IN
 - MECHANICAL AND ELECTRICAL COMPONENTS (SECTION 1707A.7 OF THE CODE)
 - PERIOD SPECIAL INSPECTION IS REQUIRED DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS.
 - PERIOD SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT IN THE STRUCTURE.
 - PERIOD SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF VIBRATION ISOLATION SYSTEMS IN THE STRUCTURE.
- STRUCTURAL TESTING FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1708A OF THE CODE FOR THE FOLLOWING ITEMS:
 - CONCRETE REINFORCEMENT BELOW MOMENT FRAMES SHALL COMPLY WITH SECTION 21.1.5.2 OF ACI 318-11. SPECIAL INSPECTOR SHALL VERIFY CERTIFIED MILL TEST REPORTS FOR EACH TESTING DEMONSTRATES REQUIREMENTS OF ACI 318-14 SECTION 21.1.5.2:
 - THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED fy BY MORE THAN 18,000 PSI.
 - THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
 - STRUCTURAL STEEL. TESTING SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN REQUIREMENTS OF AISC 341.

INSPECTIONS

THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL HAVE CONTINUOUS INSPECTION BY A BUILDING INSPECTOR APPROVED BY DSA.

- EXPANSION ANCHORS.*
- ADHESIVE ANCHORS.*
- POWDER ACTIVATED FASTENERS / SHOT PINS.*

* THESE ITEMS REQUIRE SPECIAL INSPECTION.

ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704A OF THE CODE AND ANY ADDITIONAL REQUIREMENTS STATED IN THESE DRAWINGS AND/OR THE PROJECT SPECIFICATIONS.

REFER TO THE STRUCTURAL TESTS AND INSPECTIONS FORM FOR ADDITIONAL INFORMATION AND ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.

FILE NO: 19-91 A#: 03-122718

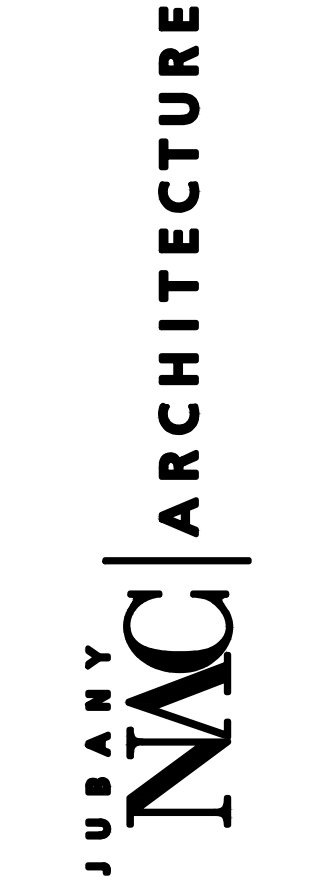
11-17-2022
01-31-2022



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770



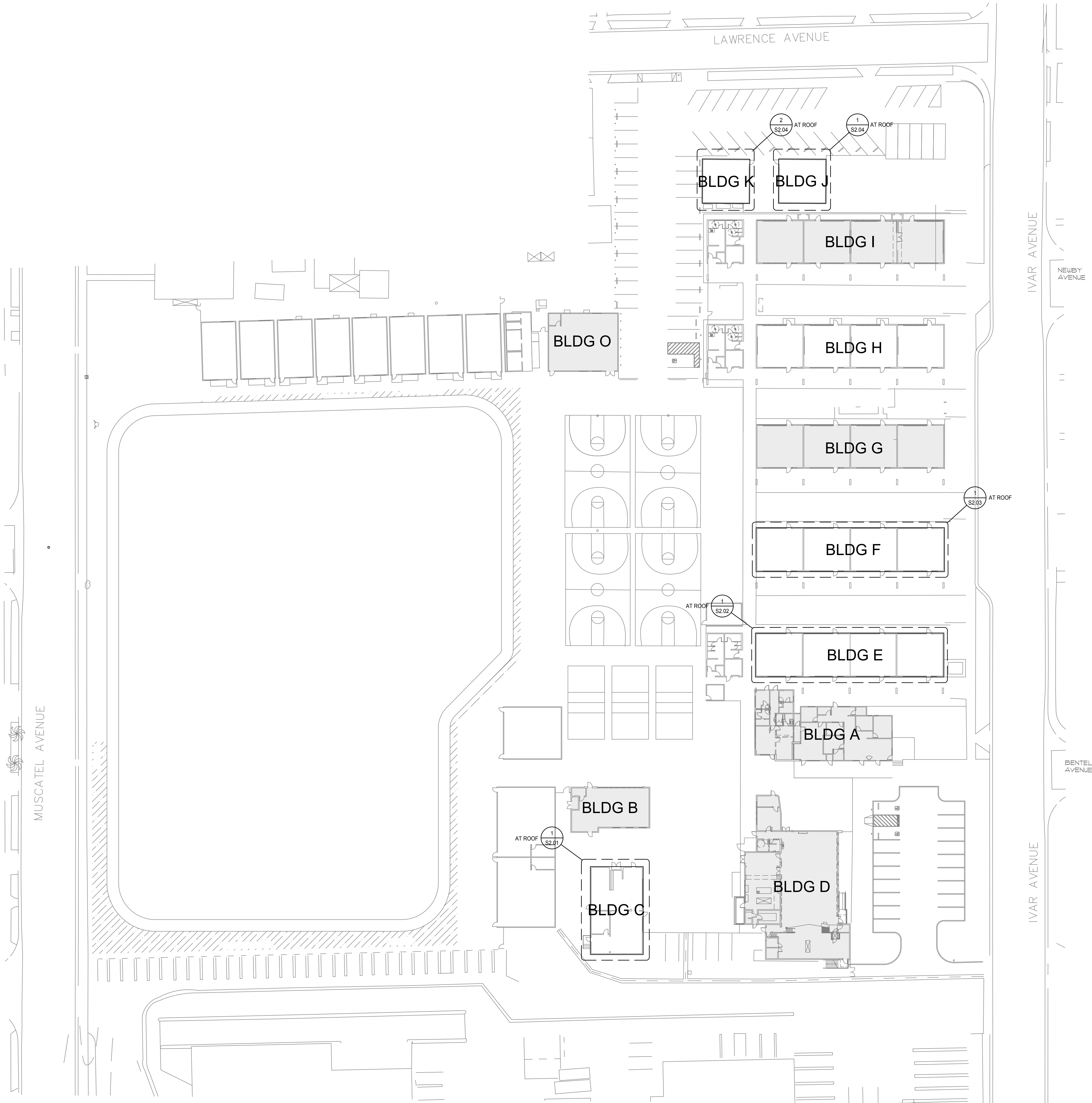
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DRAWN	CC
CHECKED	EMB/AL
DATE	11-17-2022

STRUCTURAL GENERAL
NOTES

S0.03

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XREF: X:\2022\2200234 - Rosemead SD - HVAC REPL\3 SD\01\Muscatel Middle School (2200234_S1.01.dwg

1 OVERALL SITE / KEY PLAN
SCALE: 1"=30'-0"



SITE / KEY PLAN NOTES:

1. THE PURPOSE OF THIS KEY PLAN IS TO INDICATE AREAS FOR ENLARGED STRUCTURAL PLANS ONLY.
2. NOT USED.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD AND WITH ARCH DRAWINGS PRIOR TO LOCATING AND FABRICATING NEW FRAMING.
4. SEE SHEET S0.01 FOR SYMBOLS AND ABBREVIATIONS.
5. SEE S0.XX SERIES OF SHEETS FOR STRUCTURAL GENERAL NOTES.
6. VERIFY EXACT QUANTITIES, LOCATIONS AND DIMENSIONS OF MEP EQUIPMENT WITH MEP & ARCHITECTURAL DRAWINGS AND EQUIPMENT MFR PRIOR TO FABRICATION OF NEW SUPPORT FRAMING AND INSTALLATION OF EQUIPMENT.

FILE NO: 19-91 A# 03-122718

11-17-2022
01-31-2022

kpff
700 S. Flower St., Suite 2100
Los Angeles, CA 90017
O: 213.418.0201
www.kpff.com



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



ROSEMEAD
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PARK ROSEMEAD
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ROSEMEAD, CA 91770

JUBANY
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837 N. SPRING ST. | LOS ANGELES CA 90012-2625 | P: 323.476.6795 | F: 323.889.5110
www.nacarchitecture.com

NAC NO: 161-21043
FILE:
DRAWN: CC
CHECKED: EMB/AL
DATE: 11-17-2022

OVERALL SITE /
KEY PLAN

S1.01

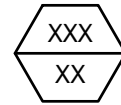
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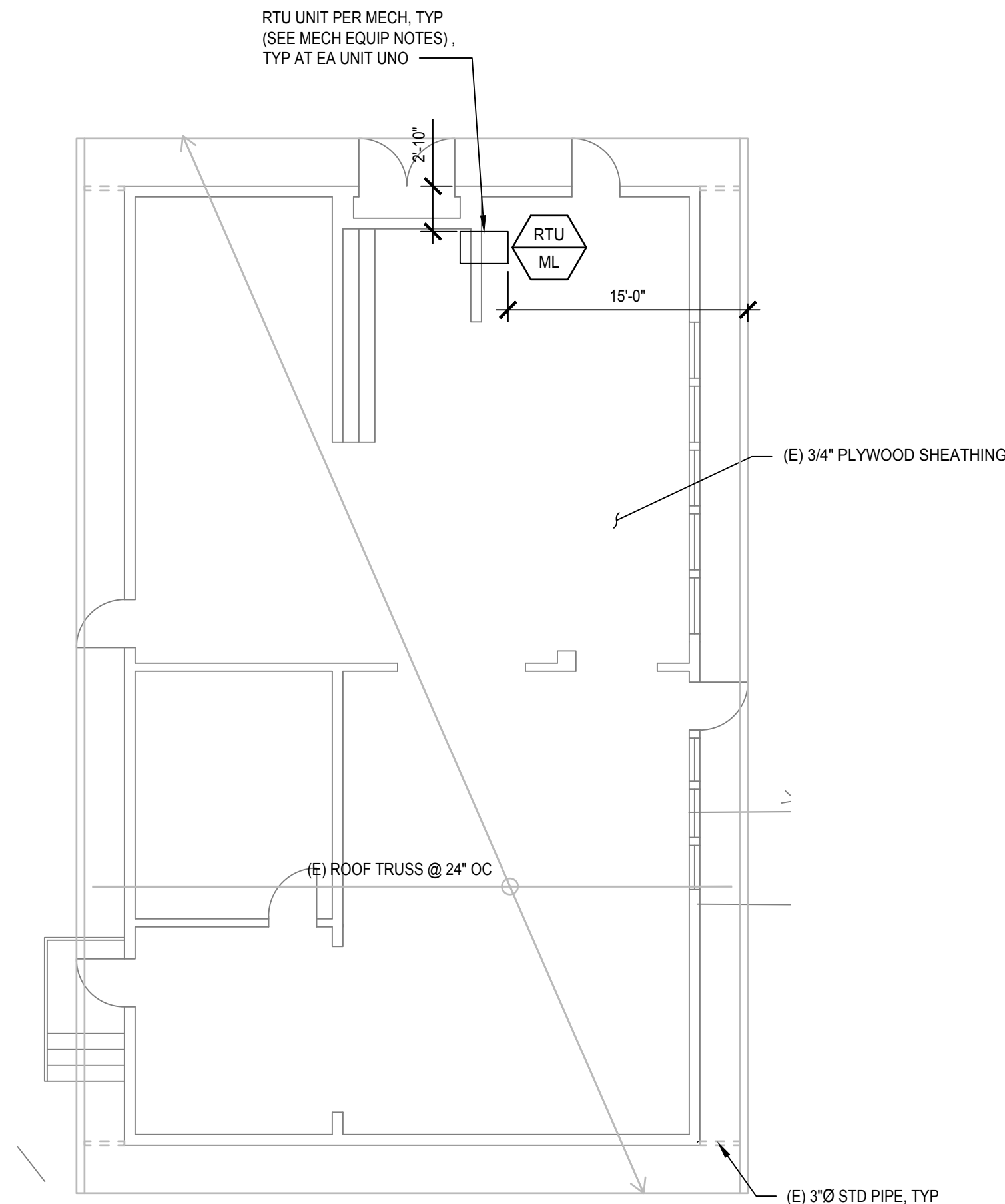
1 BLDG C - ROOF FRAMING PLAN
SCALE = 1/8"=1'-0"

PLAN NOTES:

- EXISTING CONDITIONS SHOWN ON PLANS, SECTIONS AND DETAILS ARE BASED ON LIMITED AVAILABLE AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF WORK. ARCHITECT AND ENGINEER SHALL REVIEW THE ACTUAL FIELD CONDITIONS AND DETERMINE THE EXTENT OF MODIFICATIONS WHICH WILL BE REQUIRED TO THE AFFECTED DETAILS. MODIFICATIONS TO THE CONTRACT DOCUMENTS MAY BE SUBJECT TO REVIEW & APPROVAL BY DSA.
- VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD AND WITH ARCH DRAWINGS PRIOR TO LOCATING AND FABRICATING NEW FRAMING.
- ELEMENTS SHOWN SCREENED ARE EXISTING ELEMENTS WHICH ARE TO REMAIN, UNO. ELEMENTS SHOWN DARK ARE NEW ELEMENTS, UNO.
- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, DEPRESSIONS, CURBS, ETC, WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- SEE ARCH FOR FINISHES, PARTITION WALLS, WATERPROOFING, ROOFING, AND OTHER NON-STRUCTURAL ELEMENTS.
- SEE ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
- MOVE AND REPLACE (E) CROSS BRIDGING IN KIND AS REQUIRED FOR INSTALLATION OF SISTERING JOISTS.
- SEE SHEET S0.01 FOR SYMBOLS AND ABBREVIATIONS.
- SEE S0.XX SERIES OF SHEETS FOR STRUCTURAL GENERAL NOTES.
- SEE S4.XX SERIES OF SHEETS FOR EQUIPMENT SUPPORT DETAILS.

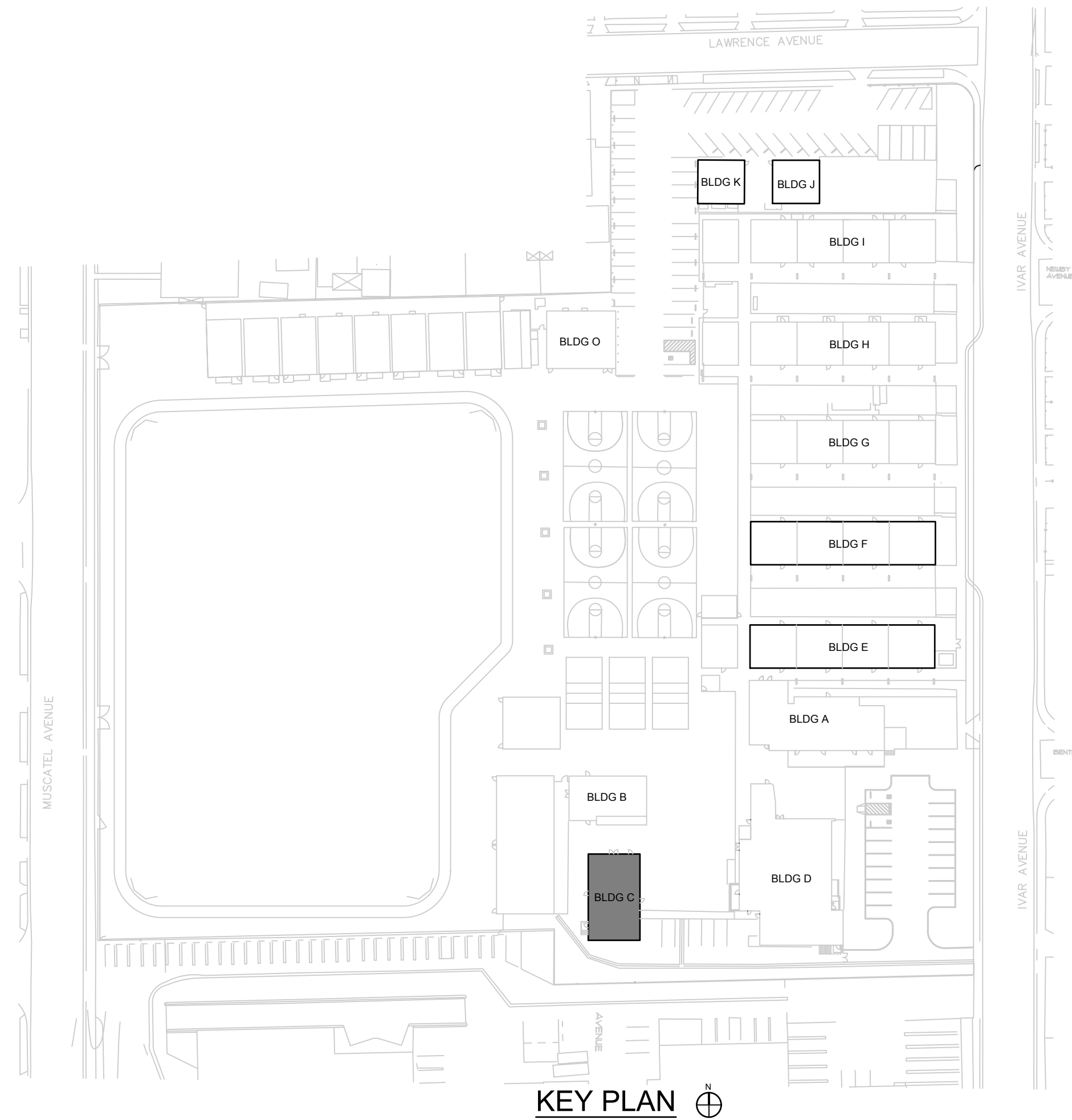
MECHANICAL EQUIPMENT NOTES:

-  INDICATES (N) HVAC EQUIPMENT PER MECHANICAL DRAWINGS. SEE EQUIPMENT SCHEDULE FOR SUPPORT AND/OR ANCHORAGE DETAIL.
- VERIFY EXACT QUANTITIES, LOCATIONS AND/OR DIMENSIONS OF MEP EQUIPMENT WITH MEP & ARCHITECTURAL DRAWINGS AND EQUIPMENT MFR PRIOR TO FABRICATION OF NEW SUPPORT FRAMING AND INSTALLATION OF EQUIPMENT.
- ALL (N) DUCTS SHALL RUN THROUGH (E) ROOF AND WALL OPENINGS IN (E) WOOD STUD WALLS, TYP. UNO. NO (N) OPENINGS SHALL BE CUT IN (E) ROOF OR WALLS. SEE DETAIL 2/S4.01 FOR (N) FRAMING AT (E) WOOD ROOF OPENINGS AS REQ'D.
- IF PIPING FROM MECH UNIT REQUIRE CORE THRU (E) ROOF OR WALL SHEATHING (2 INCH MAX DIAMETER), CORE SHALL BE LOCATED BETWEEN ADJACENT (E) JOISTS OR STUDS AND SHALL NOT CUT JOISTS OR STUDS.



EQUIPMENT SCHEDULE

RTU UNITS			
MARK	OPERATING WEIGHT LBS.	DETAIL REFERENCE	REMARKS
RTU-ML	675	4/S4.01	SEE MECH FOR ADDL INFORMATION




FILE NO: 19-91 A#: 03-122718

11-17-2022
01-31-2022

kpff
700 S. Flower St., Suite 2100
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WWW.KPFF.COM



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K


ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

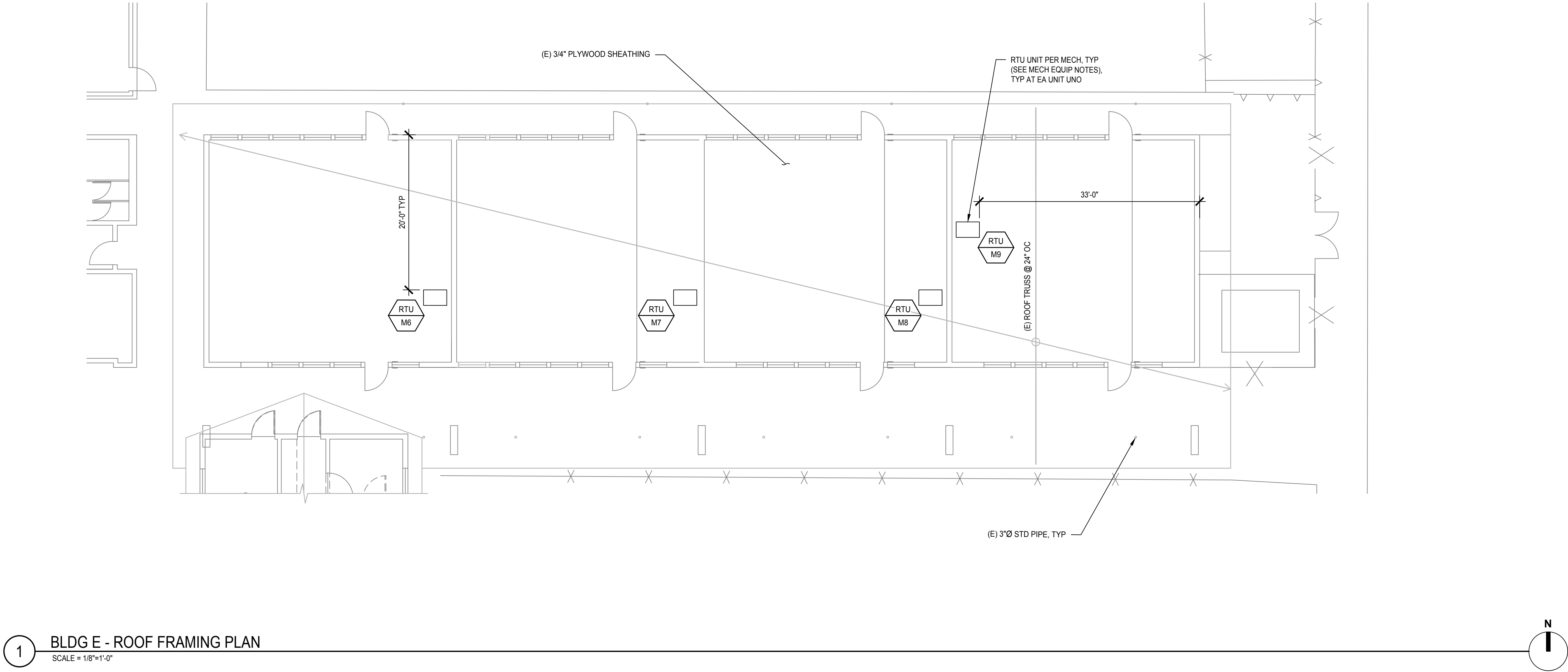
JUBANY
NAC | ARCHITECTURE
807 N. SPRING ST. | LOS ANGELES CA 90012-2625 | P: 323.476.6095 | F: 323.889.5110
WWW.NACARCHITECTURE.COM

NAC NO: 161-21043
FILE:
DRAWN: CC
CHECKED: EMB/AL
DATE: 11-17-2022

BUILDING C
ROOF FRAMING PLAN

S2.01

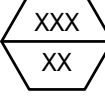
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PLAN NOTES:

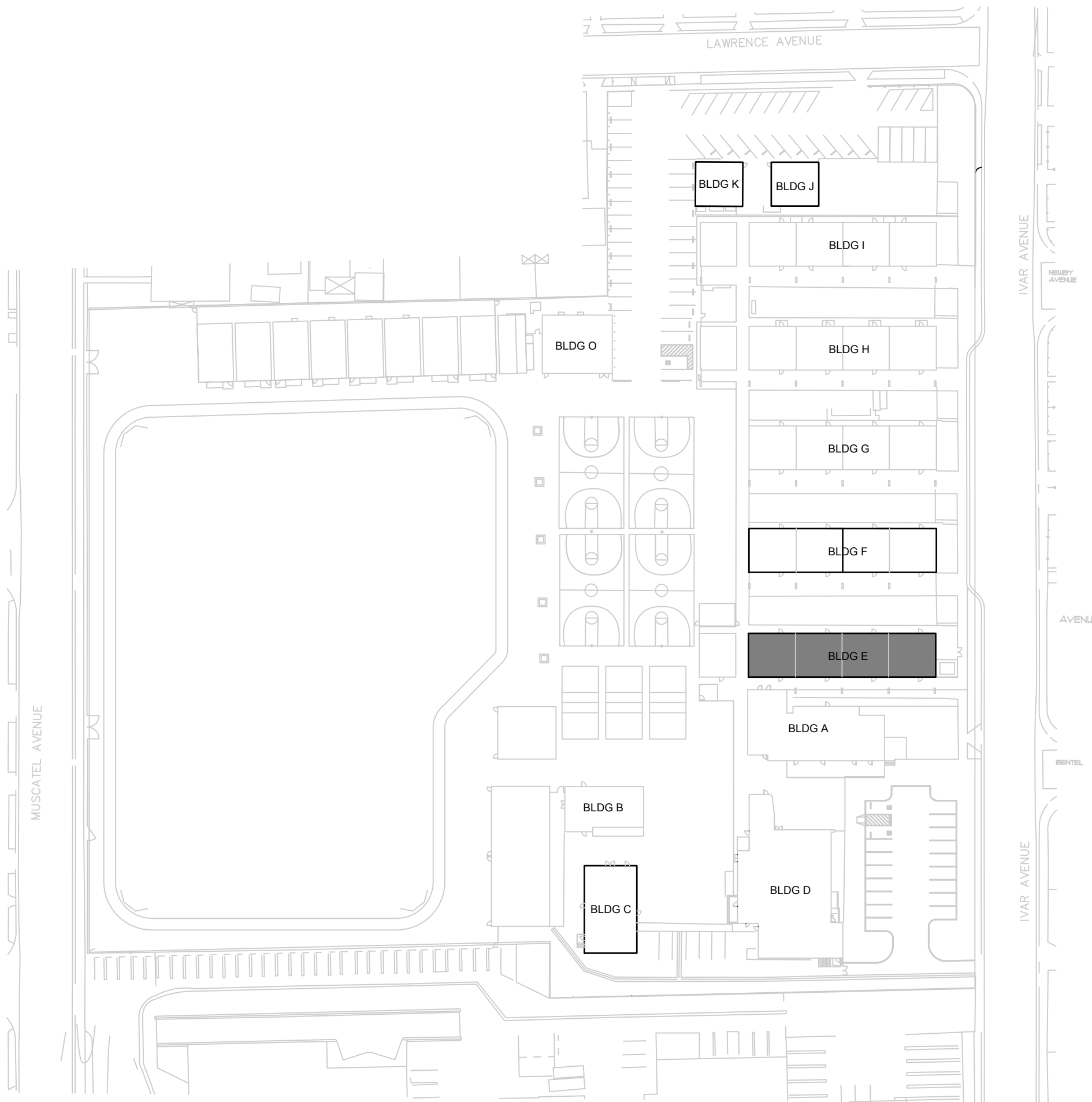
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- VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD AND WITH ARCH DRAWINGS PRIOR TO LOCATING AND FABRICATING NEW FRAMING.
- ELEMENTS SHOWN SCREENED ARE EXISTING ELEMENTS WHICH ARE TO REMAIN, UNO. ELEMENTS SHOWN DARK ARE NEW ELEMENTS, UNO.
- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, DEPRESSIONS, CURBS, ETC, WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- SEE ARCH FOR FINISHES, PARTITION WALLS, WATERPROOFING, ROOFING, AND OTHER NON-STRUCTURAL ELEMENTS.
- SEE ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
- Merge and replace (E) cross bridging in kind as required for installation of sistering joists.
- SEE SHEET S0.01 FOR SYMBOLS AND ABBREVIATIONS.
- SEE S0.XX SERIES OF SHEETS FOR STRUCTURAL GENERAL NOTES.
- SEE S4.XX SERIES OF SHEETS FOR EQUIPMENT SUPPORT DETAILS.

MECHANICAL EQUIPMENT NOTES:

-  INDICATES (N) HVAC EQUIPMENT PER MECHANICAL DRAWINGS. SEE EQUIPMENT SCHEDULE FOR SUPPORT AND/OR ANCHORAGE DETAIL.
- VERIFY EXACT QUANTITIES, LOCATIONS AND/OR DIMENSIONS OF MEP EQUIPMENT WITH MEP & ARCHITECTURAL DRAWINGS AND EQUIPMENT MFR PRIOR TO FABRICATION OF NEW SUPPORT FRAMING AND INSTALLATION OF EQUIPMENT.
- ALL (N) DUCTS SHALL RUN THROUGH (E) ROOF AND WALL OPENINGS IN (E) WOOD STUD WALLS, TYP. UNO. NO (N) OPENINGS SHALL BE CUT IN (E) ROOF OR WALLS. SEE DETAIL 2/S4.01 FOR (N) FRAMING AT (E) WOOD ROOF OPENINGS AS REQ'D.
- IF PIPING FROM MECH UNIT REQUIRE CORE THRU (E) ROOF OR WALL SHEATHING (2 INCH MAX DIAMETER), CORE SHALL BE LOCATED BETWEEN ADJACENT (E) JOISTS OR STUDS AND SHALL NOT CUT JOISTS OR STUDS.

EQUIPMENT SCHEDULE

RTU UNITS			
MARK	OPERATING WEIGHT LBS.	DETAIL REFERENCE	REMARKS
RTU-M6	675	4/S4.01	SEE MECH FOR ADDL INFORMATION
RTU-M7	675	4/S4.01	SEE MECH FOR ADDL INFORMATION
RTU-M8	675	4/S4.01	SEE MECH FOR ADDL INFORMATION
RTU-M9	675	4/S4.01	SEE MECH FOR ADDL INFORMATION



KEY PLAN

FILE NO: 19-91 A#: 03-122718

11-17-2022
01-31-2022



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



JUBANY NAC ARCHITECTURE
807 N. SPRING ST. | LOS ANGELES CA 90012-2021 | P: 323.476.6091 | F: 323.889.9110
WWW.NACARCHITECTURE.COM

NAC NO: 161-21043
FILE: CC
DRAWN: EMB/AL
CHECKED: 11-17-2022
DATE:

BUILDING E
ROOF FRAMING PLAN

S2.02

11-17-2022
01-31-2023



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
107 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

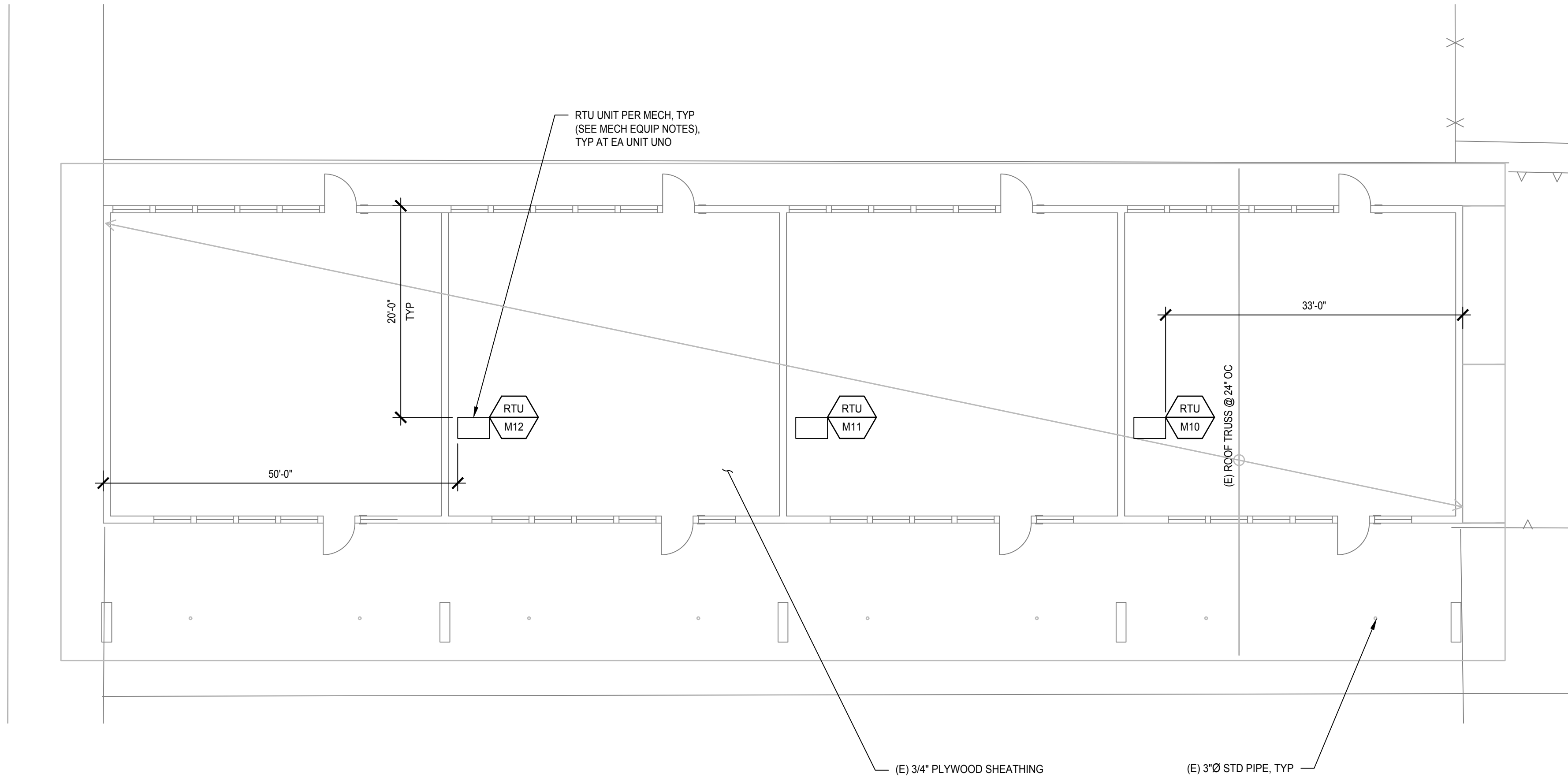
JUBANY
NAC | ARCHITECTURE

AC NO	161-21043
FILE	
DRAWN	CC
CHECKED	EMB/AL
DATE	11-17-2022

**BUILDING F
ROOF FRAMING PLAN**

S2.03

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


1 BLDG F - ROOF FRAMING PLAN
SCALE = 1/8"=1'-0"

PLAN NOTES:

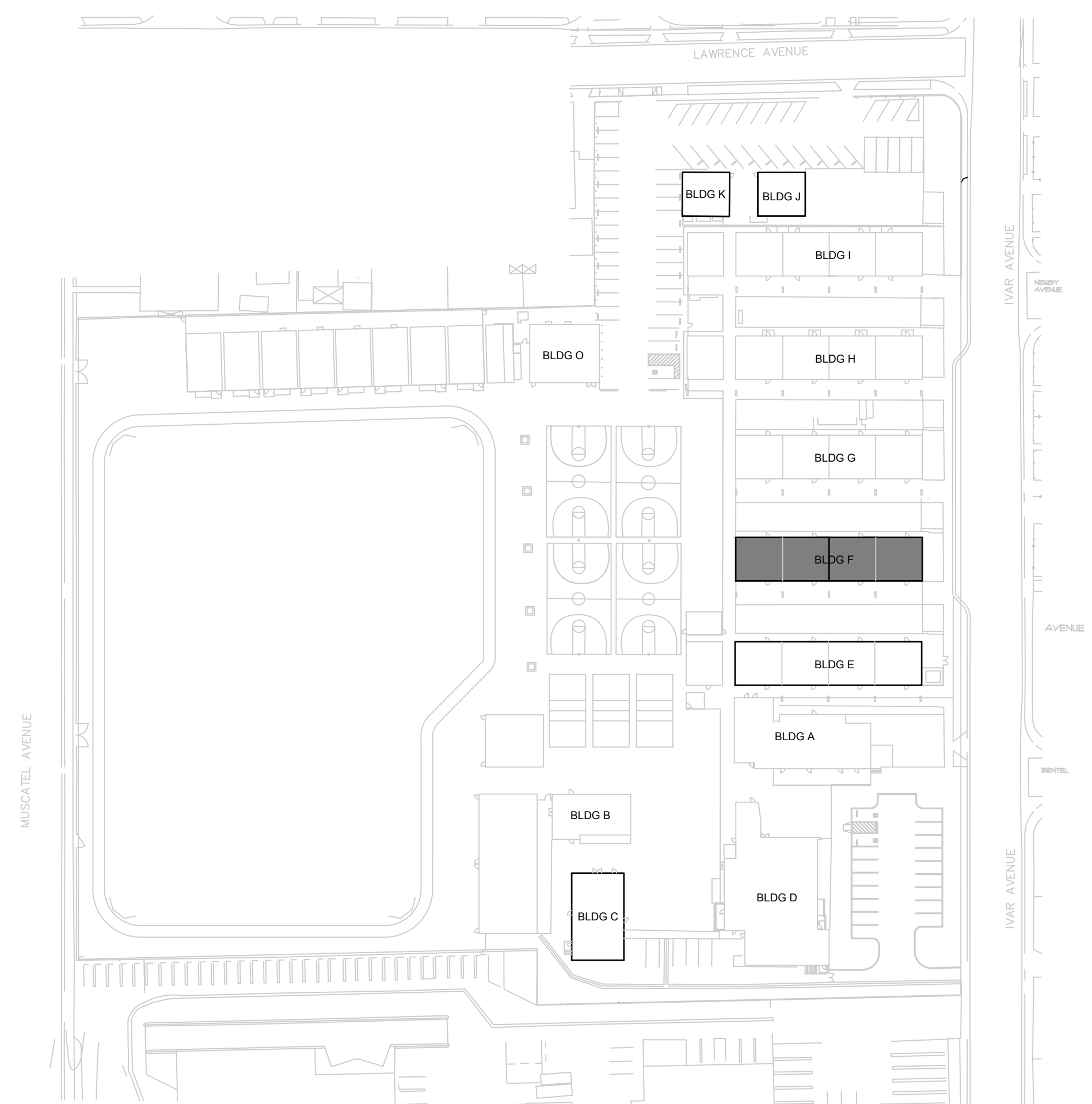
1. EXISTING CONDITIONS SHOWN ON PLANS, SECTIONS AND DETAILS ARE BASED ON LIMITED AVAILABLE AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF WORK. ARCHITECT AND ENGINEER SHALL REVIEW THE ACTUAL FIELD CONDITIONS AND DETERMINE THE EXTENT OF MODIFICATIONS WHICH WILL BE REQUIRED TO THE AFFECTED DETAILS. MODIFICATIONS TO THE CONTRACT DOCUMENTS MAY BE SUBJECT TO REVIEW & APPROVAL BY O&A.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD AND WITH ARCH DRAWINGS PRIOR TO LOCATING AND FABRICATING NEW FRAMING.
3. ELEMENTS SHOWN SCREENED ARE EXISTING ELEMENTS WHICH ARE TO REMAIN. UNO. ELEMENTS SHOWN DARK ARE NEW ELEMENTS. UNO.
4. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, DEPRESSIONS, CURBS, ETC. WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
5. SEE ARCH FOR FINISHES, PARTITION WALLS, WATERPROOFING, ROOFING, AND OTHER NON-STRUCTURAL ELEMENTS.
6. SEE ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
7. MOVE AND REPLACE (E) CROSS BRIDGING IN KIND AS REQUIRED FOR INSTALLATION OF SISTERING JOISTS.
8. SEE SHEET S0.01 FOR SYMBOLS AND ABBREVIATIONS.
9. SEE S4.XX SERIES OF SHEETS FOR STRUCTURAL GENERAL NOTES.
10. SEE S4.XX SERIES OF SHEETS FOR EQUIPMENT SUPPORT DETAILS.

MECHANICAL EQUIPMENT NOTES:

1.  INDICATES (N) HVAC EQUIPMENT PER MECHANICAL DRAWINGS. SEE EQUIPMENT SCHEDULE FOR SUPPORT AND/OR ANCHORAGE DETAIL.
2. VERIFY EXACT QUANTITIES, LOCATIONS AND/OR DIMENSIONS OF MEP EQUIPMENT WITH MEP & ARCHITECTURAL DRAWINGS AND EQUIPMENT MFR PRIOR TO FABRICATION OF NEW SUPPORT FRAMING AND INSTALLATION OF EQUIPMENT.
3. ALL (N) DUCTS SHALL RUN THROUGH (E) ROOF AND WALL OPENINGS (N) E) WOOD STUD WALLS. TYPE UNO, NO (N) OPENINGS SHALL BE CUT IN (E) ROOF OR WALLS. SEE DETAIL 234-01 FOR (N) FRAMING AT (E) WOOD ROOF OPENINGS AS REQ'D.
4. IF PIPING FROM MECH UNIT REQUIRE CROU THRU (E) ROOF OR WALL SHEATHING (2 INCH MAX DIAMETER) CROU SHALL BE LOCATED BETWEEN ADJACENT (E) JOISTS OR STUDS AND SHALL NOT CUT JOISTS OR STUDS.

EQUIPMENT SCHEDULE

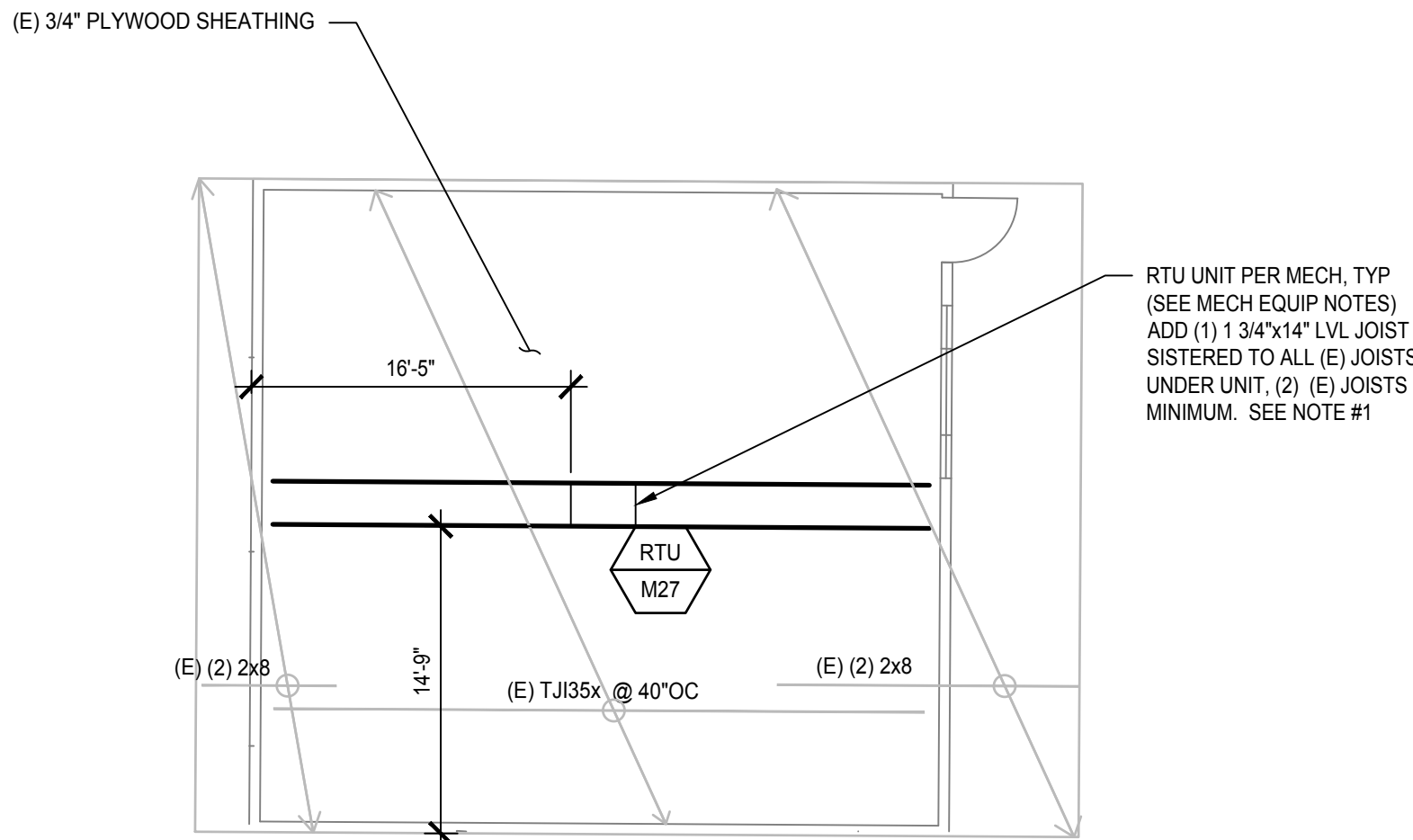
RTU UNITS			
MARK	OPERATING WEIGHT LBS.	DETAIL REFERENCE	REMARKS
RTU-M10	675	4/S4.01	SEE MECH FOR ADDL INFORMATION
RTU-M11	675	4/S4.01	SEE MECH FOR ADDL INFORMATION
RTU-M12	675	4/S4.01	SEE MECH FOR ADDL INFORMATION



KEY PLAN

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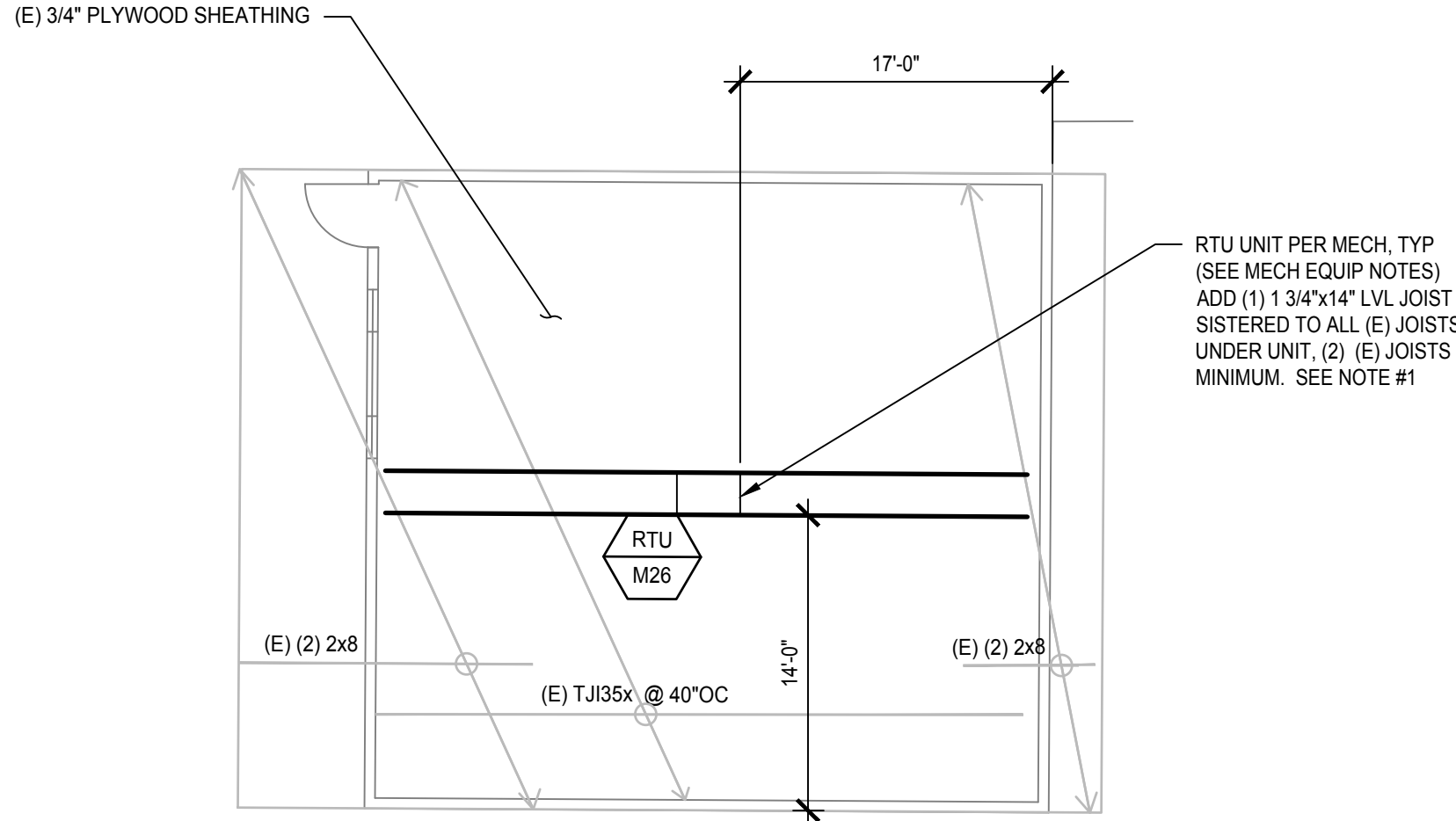
2 BLDG K - ROOF FRAMING PLAN
SCALE = 1/8"=1'-0"



EQUIPMENT SCHEDULE

RTU UNITS			
MARK	OPERATING WEIGHT LBS.	DETAIL REFERENCE	REMARKS
RTU-M27	734	4/S4.01	SEE MECH FOR ADDL INFORMATION

1 BLDG J - ROOF FRAMING PLAN
SCALE = 1/8"=1'-0"



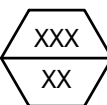
EQUIPMENT SCHEDULE

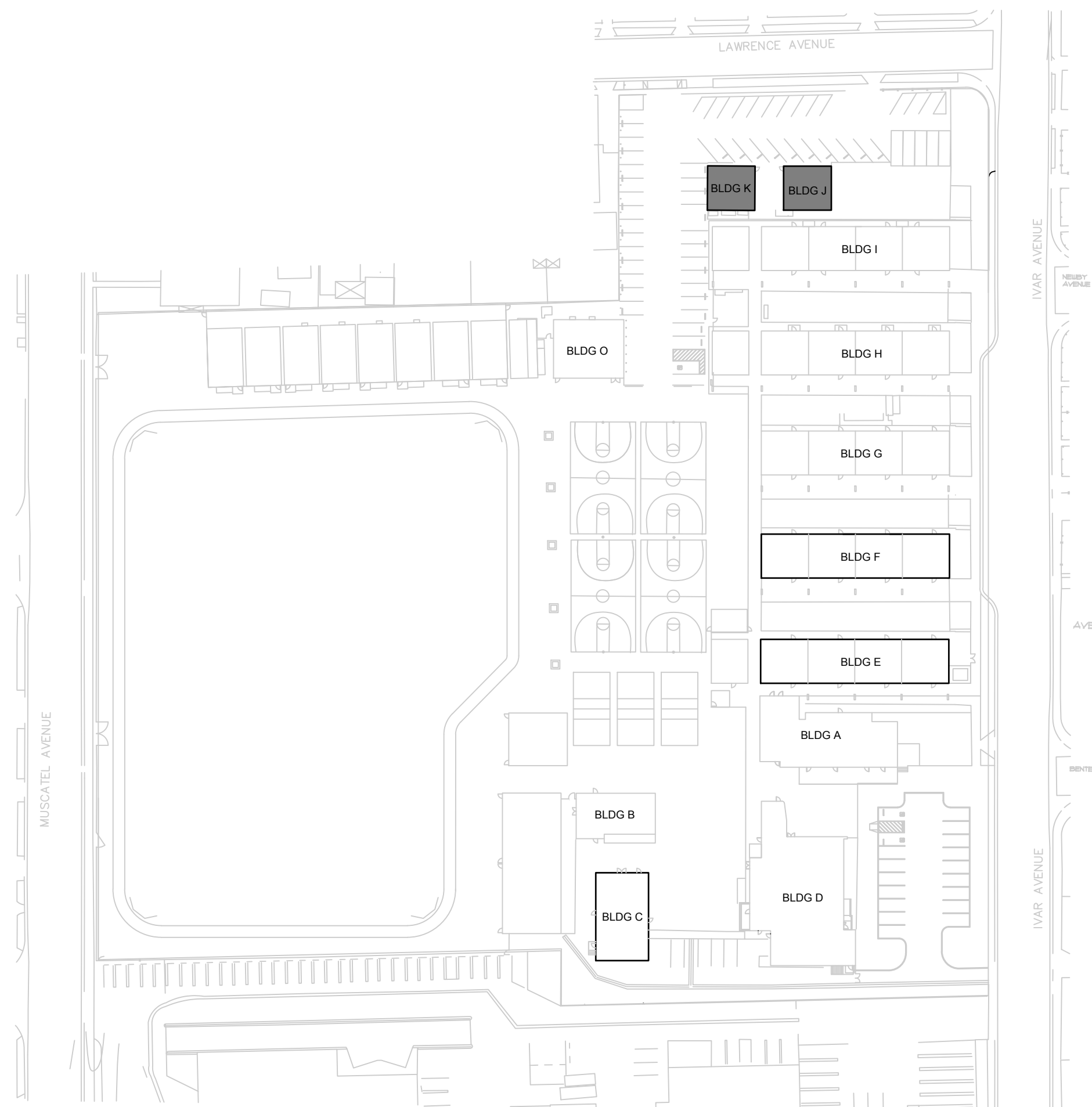
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MARK	OPERATING WEIGHT LBS.	DETAIL REFERENCE	REMARKS
RTU-M28	734	4/S4.01	SEE MECH FOR ADDL INFORMATION

PLAN NOTES:

- EXISTING CONDITIONS SHOWN ON PLANS, SECTIONS AND DETAILS ARE BASED ON LIMITED AVAILABLE AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF WORK. ARCHITECT AND ENGINEER SHALL REVIEW THE ACTUAL FIELD CONDITIONS AND DETERMINE THE EXTENT OF MODIFICATIONS WHICH WILL BE REQUIRED TO THE AFFECTED DETAILS. MODIFICATIONS TO THE CONTRACT DOCUMENTS MAY BE SUBJECT TO REVIEW & APPROVAL BY DSA.
- VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD AND WITH ARCH DRAWINGS PRIOR TO LOCATING AND FABRICATING NEW FRAMING.
- ELEMENTS SHOWN SCREENED ARE EXISTING ELEMENTS WHICH ARE TO REMAIN, UNO. ELEMENTS SHOWN DARK ARE NEW ELEMENTS, UNO.
- VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, DEPRESSIONS, CURBS, ETC, WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION.
- SEE ARCH FOR FINISHES, PARTITION WALLS, WATERPROOFING, ROOFING, AND OTHER NON-STRUCTURAL ELEMENTS.
- SEE ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS & HORIZONTAL CONTROL.
- MOVE AND REPLACE (E) CROSS BRIDGING IN KIND AS REQUIRED FOR INSTALLATION OF SISTERING JOISTS.
- SEE SHEET S0.01 FOR SYMBOLS AND ABBREVIATIONS.
- SEE S0.XX SERIES OF SHEETS FOR STRUCTURAL GENERAL NOTES.
- SEE S4.XX SERIES OF SHEETS FOR EQUIPMENT SUPPORT DETAILS.

MECHANICAL EQUIPMENT NOTES:

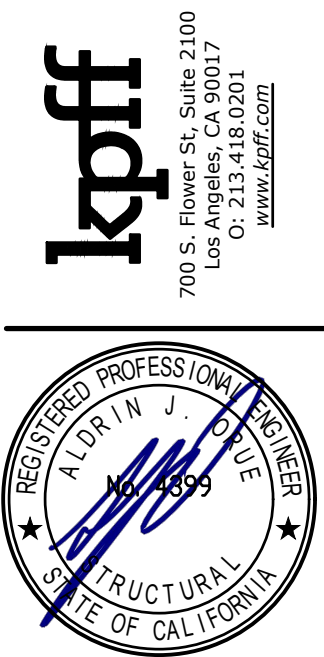
-  INDICATES (N) HVAC EQUIPMENT PER MECHANICAL DRAWINGS. SEE EQUIPMENT SCHEDULE FOR SUPPORT AND/OR ANCHORAGE DETAIL.
- VERIFY EXACT QUANTITIES, LOCATIONS AND/OR DIMENSIONS OF MEP EQUIPMENT WITH MEP & ARCHITECTURAL DRAWINGS AND EQUIPMENT MFR PRIOR TO FABRICATION OF NEW SUPPORT FRAMING AND INSTALLATION OF EQUIPMENT.
- ALL (N) DUCTS SHALL RUN THROUGH (E) ROOF AND WALL OPENINGS IN (E) WOOD STUD WALLS, TYP. UNO. NO (N) OPENINGS SHALL BE CUT IN (E) ROOF OR WALLS. SEE DETAIL 2/S4.01 FOR (N) FRAMING AT (E) WOOD ROOF OPENINGS AS REQD.
- IF PIPING FROM MECH UNIT REQUIRE CORE THRU (E) ROOF OR WALL SHEATHING (2 INCH MAX DIAMETER), CORE SHALL BE LOCATED BETWEEN ADJACENT (E) JOISTS OR STUDS AND SHALL NOT CUT JOISTS OR STUDS.



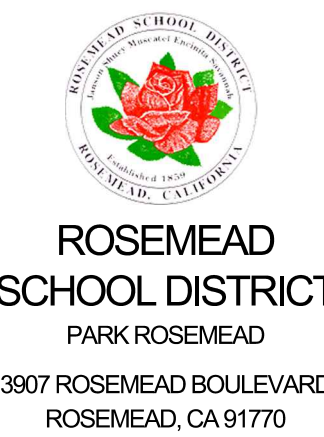
KEY PLAN

FILE NO: 19-91 A#: 03-122718

11-17-2022
01-31-2022



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



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FILE: CC
DRAWN: EMB/AL
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DATE:

BUILDINGS J & K
ROOF FRAMING PLAN

S2.04

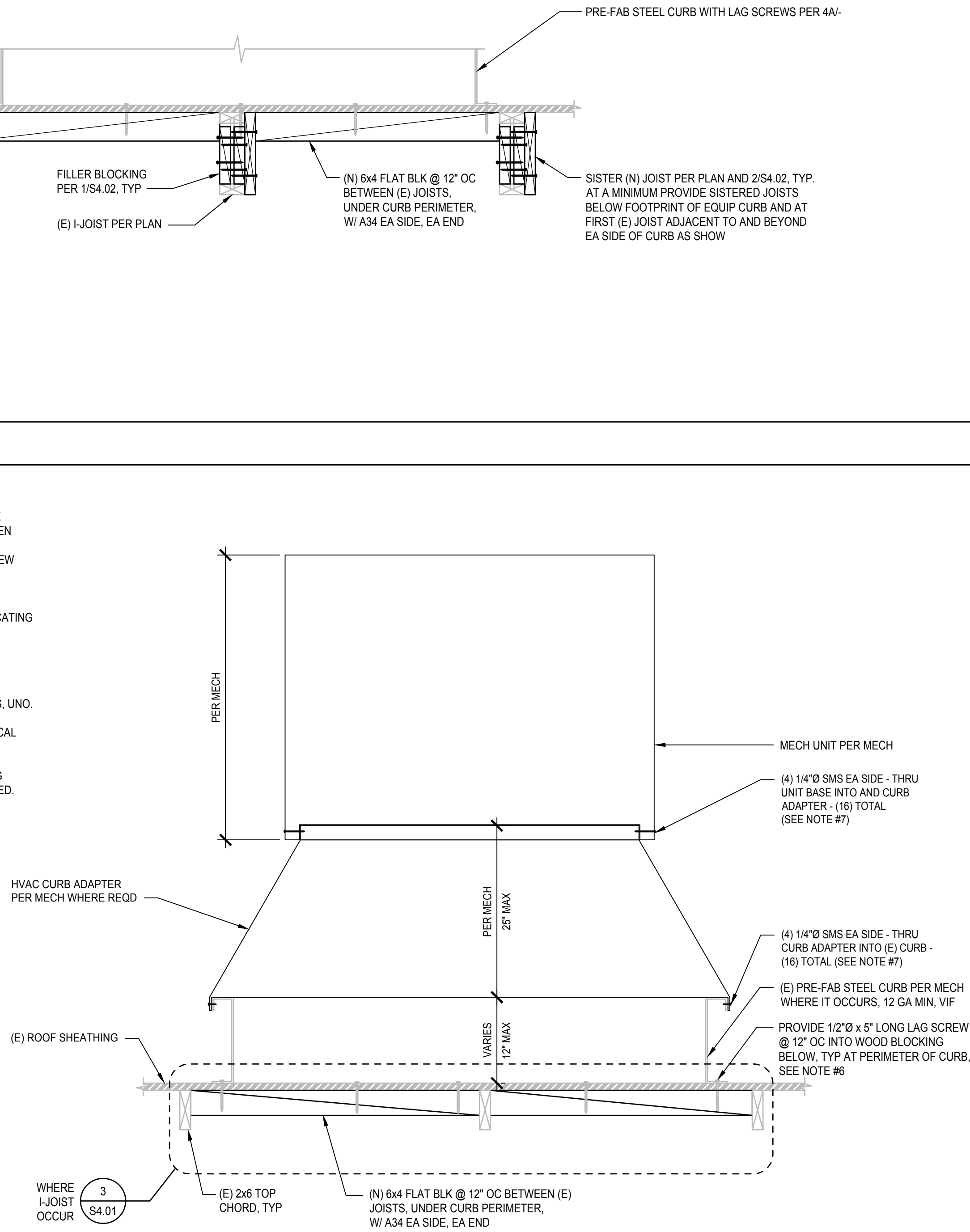
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NOTE:
SEE 4/- FOR BALANCE OF INFORMATION AND NOTES

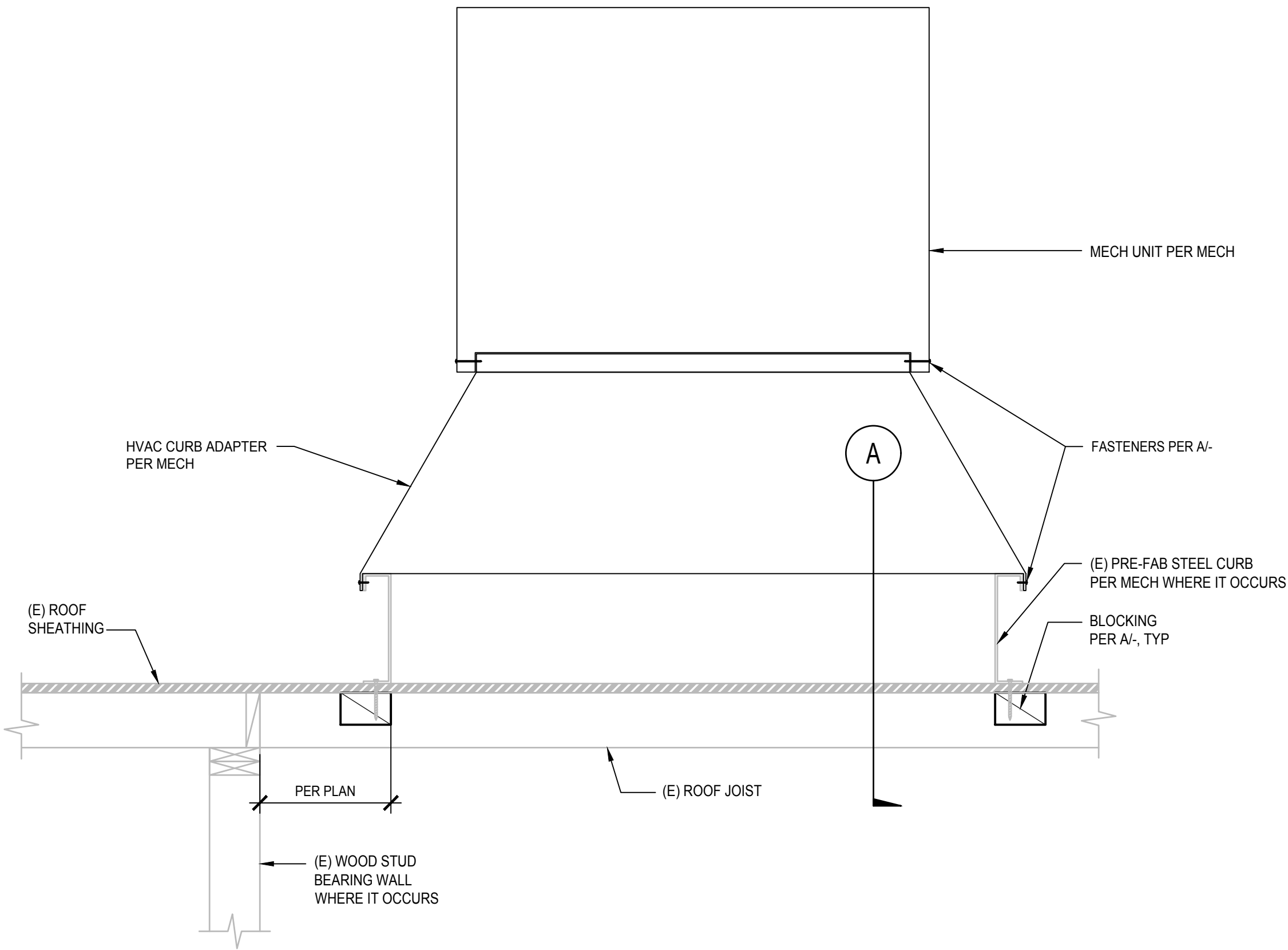
SISTER (N) JOIST TO (E) I-JOIST

NOTES:

- EXISTING CONDITIONS SHOWN ARE BASED ON LIMITED AVAILABLE AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF WORK. ARCHITECT AND ENGINEER SHALL REVIEW THE ACTUAL FIELD CONDITIONS AND DETERMINE THE EXTENT OF MODIFICATIONS WHICH WILL BE REQUIRED TO THE AFFECTED DETAILS.
- VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD AND WITH ARCH DRAWINGS PRIOR TO LOCATING AND FABRICATING NEW FRAMING.
- ELEMENTS SHOWN SCREENED ARE EXISTING ELEMENTS WHICH ARE TO REMAIN, UNO. ELEMENTS SHOWN DARK ARE NEW ELEMENTS, UNO.
- SEE ARCHITECTURAL FOR FLASHING, WATERPROOFING, AND OTHER NON-STRUCTURAL ELEMENTS, UNO.
- VERIFY EXACT LOCATIONS AND DIMENSIONS OF EQUIPMENT WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO FABRICATION OF NEW FRAMING AND INSTALLATION OF EQUIPMENT.
- VERIFY (E) LAG SCREWS IN FIELD (DIAM AND PENETRATION). PROVIDE (N) AND/OR ADDITIONAL LAG SCREWS AS REQUIRED TO MATCH SIZE, PENETRATION AND/OR SPACING OF LAG SCREWS INDICATED.



A ELEVATION
SCALE = 1"=1'-0"



B ELEVATION
SCALE = 1"=1'-0"

AC, CU & DOAS UNIT ANCHORAGE

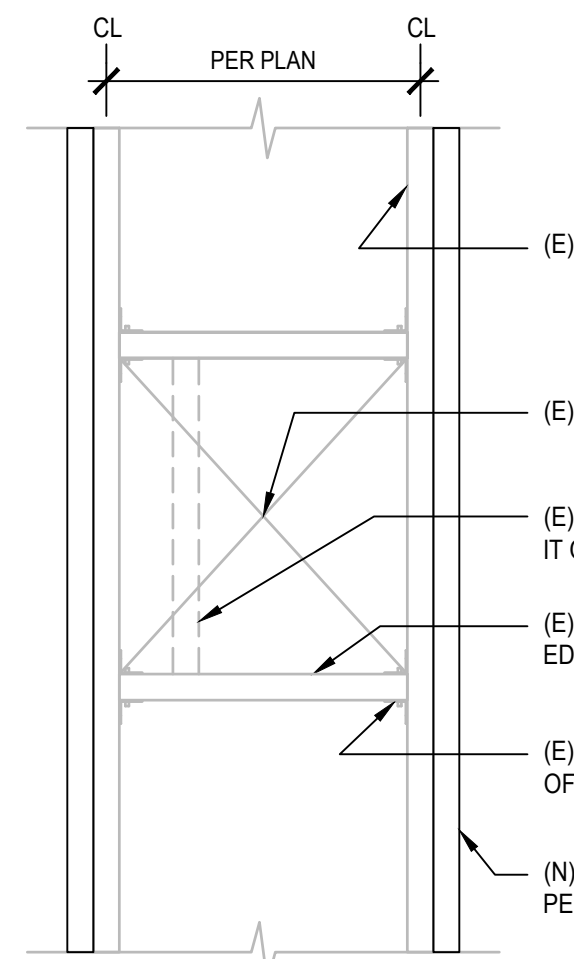
1"=1'-0"

4

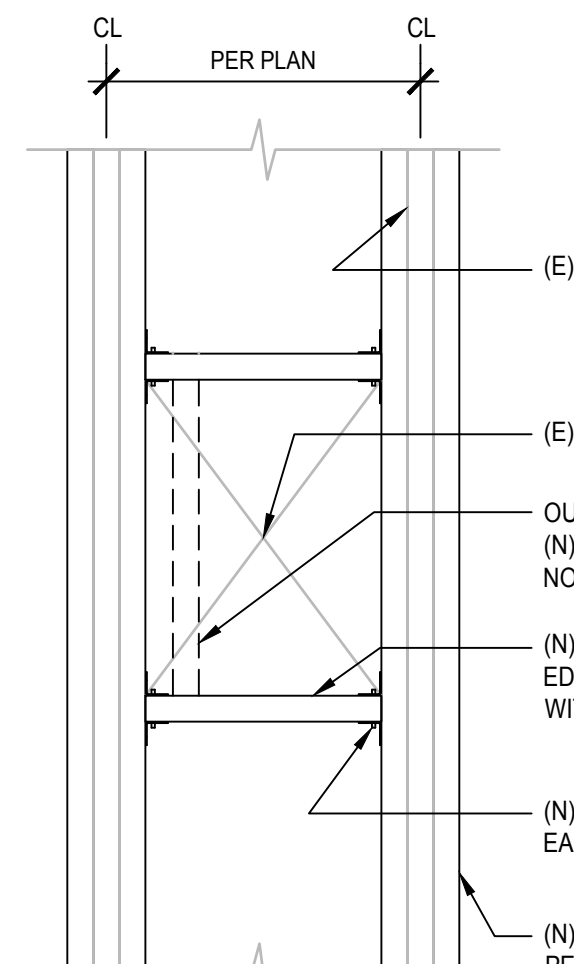
NOTES:

- THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.
- NAILS SPACED AT 6 INCHES (152mm) ON CENTER AT EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152mm) AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES (1219mm) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTIONS OF THE CODE.
- COMMON OR DEFORMED SHANK.
- COMMON
- DEFORM SHANK
- CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF THE CODE.
- FASTENERS SPACED 3 INCHES (76mm) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152mm) ON CENTER AT INTERMEDIATE SUPPORTS.
- CORROSION-RESISTANT ROOFING NAILS WITH 7/16-INCH-DIAMETER (11mm) HEAD AND 1 1/2-INCH (38mm) LENGTH FOR 1/2" INCH (12.7mm) SHEATHING AND 1 3/4-INCH (44mm) LENGTH FOR 25/32 -INCH (20mm) SHEATHING CONFORMING TO THE REQUIREMENTS OF THE CODE.
- CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16-INCH (11mm) CROWN AND 1 1/8-INCH (29mm) LENGTH FOR 1/2-INCH (12.7mm) SHEATHING AND 1 1/2-INCH (38mm) LENGTH FOR 25/32 -INCH (20mm) SHEATHING CONFORMING TO THE REQUIREMENTS OF THE CODE.
- PANEL SUPPORTS AT 16 INCHES (406mm) [20INCHES (508 mm)] IF STRENGTH AXIS DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). CASING OR FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.
- PANEL SUPPORTY AT 24 INCHES (610mm). CASING OR FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.

NAILING SCHEDULE



A BETWEEN (E) JOISTS



D BETWEEN (E) JOISTS

NOTES:

- SEE 4/- FOR ADDITIONAL NOTES.
- DETAILS A/- THRU C/- APPLY TO LOCATIONS W/ SINGLE (N) SISTERED JOIST ON ONE SIDE OF (E) JOIST. DETAILS D/- THRU F/- APPLY TO LOCATIONS W/ DBL (N) SISTERED JOISTS. (ONE NEW JOIST ON EACH SIDE OF EXISTING JOIST.)
- IN LIEU OF PROVIDING (N) CROSS BMS AS SHOWN, CONTRACTOR HAS THE OPTION OF CUTTING (E) CROSS BMS AS REOD AND REINSTALLING THEM W/ CONNECTOR HARDWARE AS SHOWN.

(E) WOOD ROOF OPENING AT NEW FRAMING

1"=1'-0"

4

NAILING SCHEDULE		
CONNECTION	NAILING ¹	
1. JOIST TO SILL OR GIRDER, TOENAIL	3-8d	
2. BRIDGING TO JOIST, TOENAIL, EACH END	2-8d	
3. 1" X 6" (25mm X 152mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2-8d	
4. WIDER THAN 1" X 6" (25mm X 152mm) SUBFLOOR TO EACH JOIST, FACE NAIL	3-8d	
5. 2" (51mm) SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d	
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	16d AT 16" (406mm) OC 3-16d PER 16"(406 mm)	
7. TOP PLATE TO STUD, END NAIL	2-16d	
8. STUD TO SOLE PLATE	4-8d, TOENAIL OR 2-16d, END NAIL	
9. DOUBLE STUDS, FACE NAIL	16d AT 24" (610mm) OC	
10. DOUBLE TOP PLATES, TYPICAL FACE NAIL DOUBLE TOP PLATES, LAP SPLICE	16d AT 16" (406mm) OC 8-16d	
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3-8d	
12. RIM JOIST TO TOP PLATE, TOENAIL	8d AT 6" (152mm) OC	
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d	
14. CONTINUOUS HEADER, TWO PIECES	16d AT 16" (406mm) OC ALONG EACH EDGE	
15. CEILING JOISTS TO PLATE, TOENAIL	3-8d	
16. CONTINUOUS HEADER TO STUD, TOENAIL	4-8d	
17. CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL	3-16d	
18. CEILING JOISTS TO PARELLEL RAFTERS, FACE NAIL	3-16d	
19. RAFTER TO PLATE, TOENAIL	3-8d	
20. 1" (25mm) BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d	
21. 1" X 6" (25mm X 203mm) SHEATHING OR LESS TO EACH BEARING, FACE NAIL	2-8d	
22. WIDER THAN 1" X 8" (25mm X 203mm) SHEATHING TO EACH BEARING, FACE NAIL	3-8d	
23. BUILT-UP CORNER STUDS	16d AT 24" (610mm) OC	
24. BUILT-UP GIRDER AND BEAMS	20d AT 32" (813mm) OC AT TOP AND BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE	
25. 2" (51mm) PLANKS	2-16d AT EACH BEARING	
26. WOOD STRUCTURAL PANELS AND PARTICLEBOARD: SUBFLOOR AND WALL SHEATHING (TO FRAMING): 1/2" (12.7mm) AND LESS 19/32"-3/4" (15mm-19mm) 7/8"-1" (22mm-25mm) 11/8"-1 1/4" (29mm-32mm) COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING): 3/4" (19mm) AND LESS 7/8"-1" (22mm-25mm) 1 1/8"-1 1/4" (29mm-32mm)	2 8d ⁴ AND 6d ² 8d ² 10d ⁴ OR 8d ² 10d ⁴ OR 8d ²	
27. PANEL SIDING (TO FRAMING): 1/2" (12.7mm) OR LESS 5/8" (16mm)	2 6d ⁶ 8d ⁶	
28. FIBERBOARD SHEATHING: 1/2" (12.7mm) 25/32" (20mm)	7 NO.11 8d ⁸ NO.16 9d ⁸ NO.11 8d ⁸ NO.16 9d ⁸	
29. INTERIOR PANELING 1/4" (6.4mm) 3/8" (9.5mm)	4d ¹⁰ 6d ¹¹	

NONE

1

ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K

ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

JUDANY
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DATE: 11-17-2022

EQUIPMENT SUPPORT
DETAILS

S4.01

2

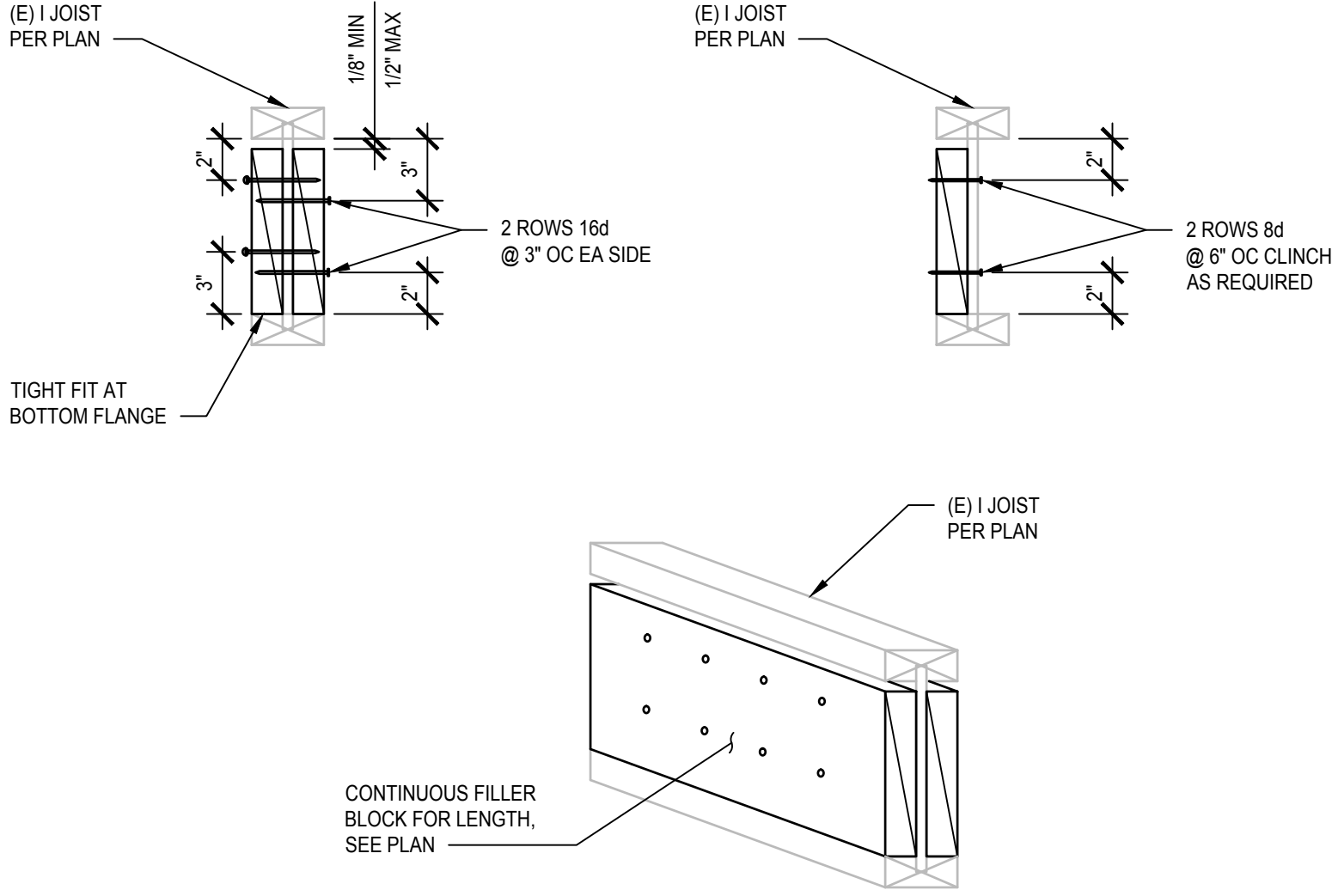
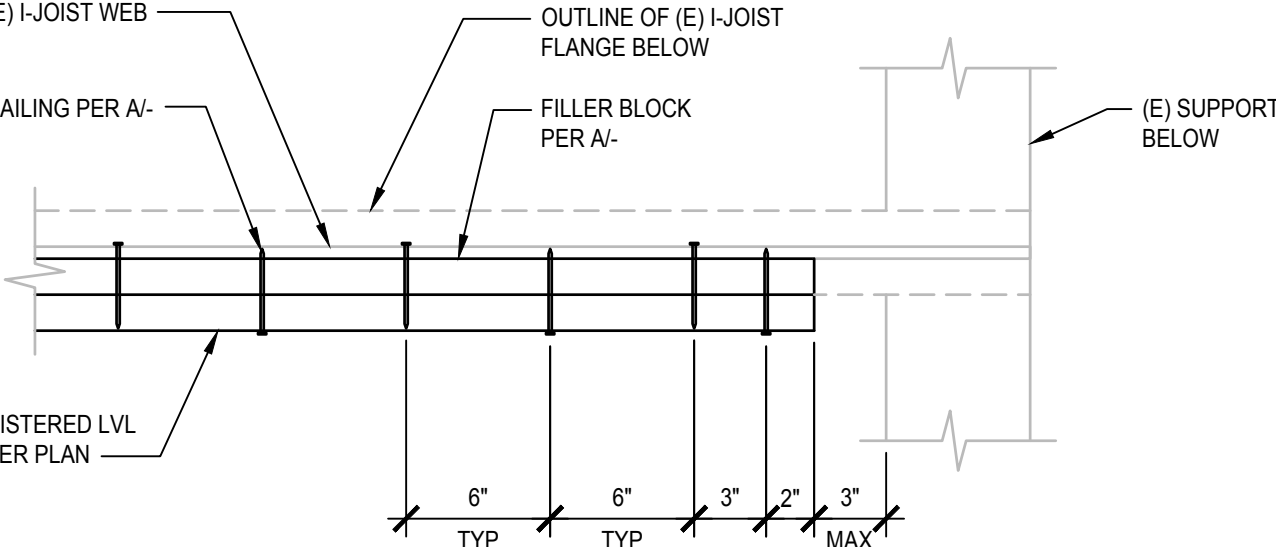
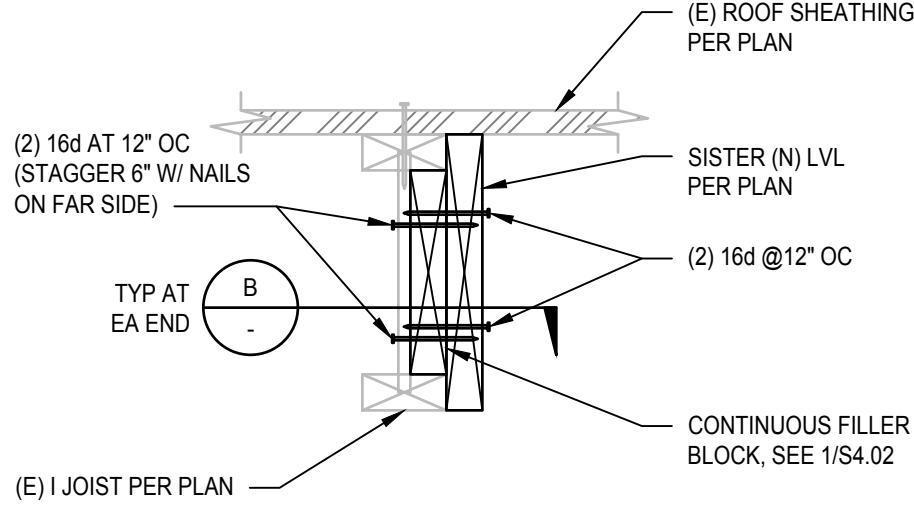
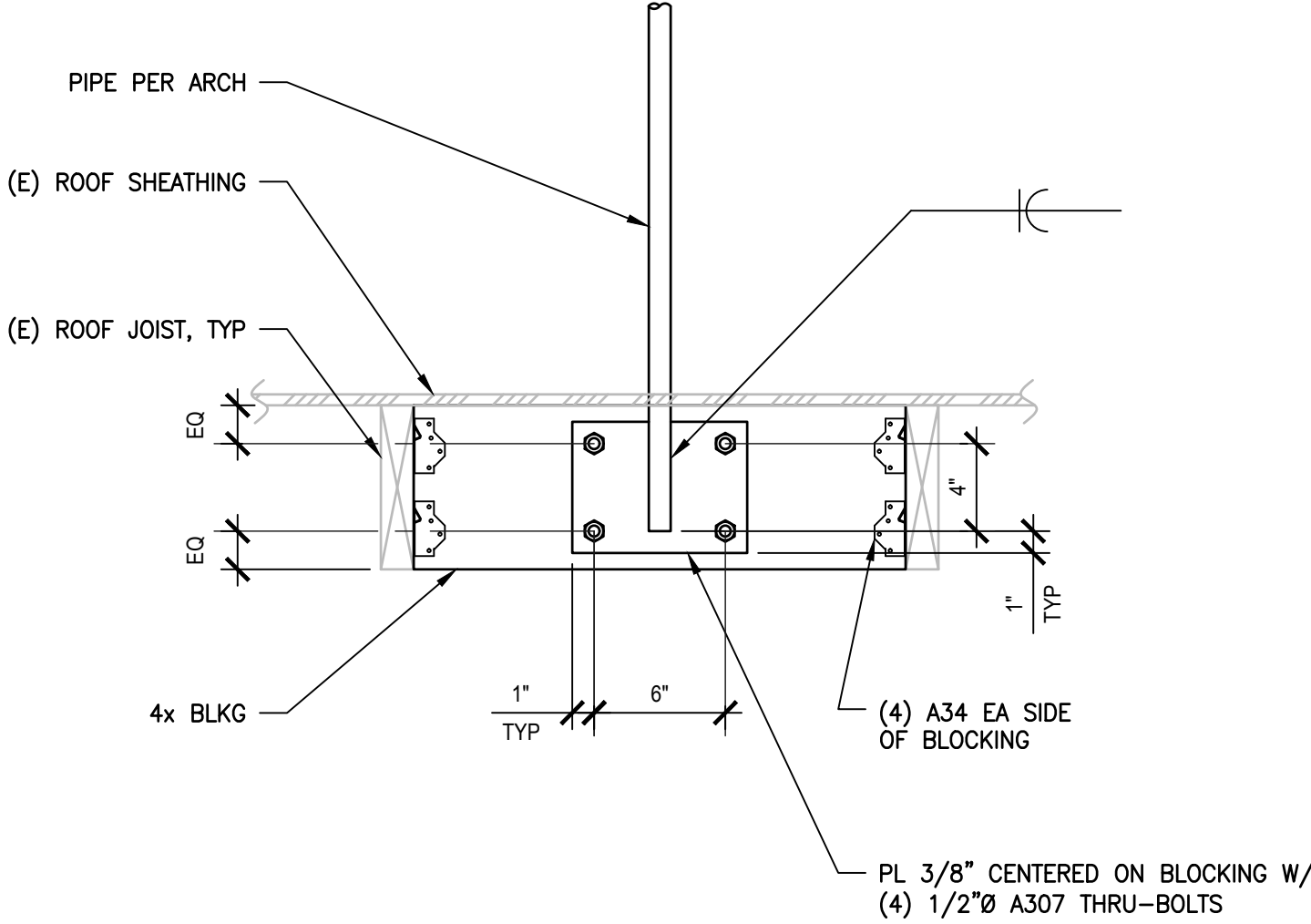
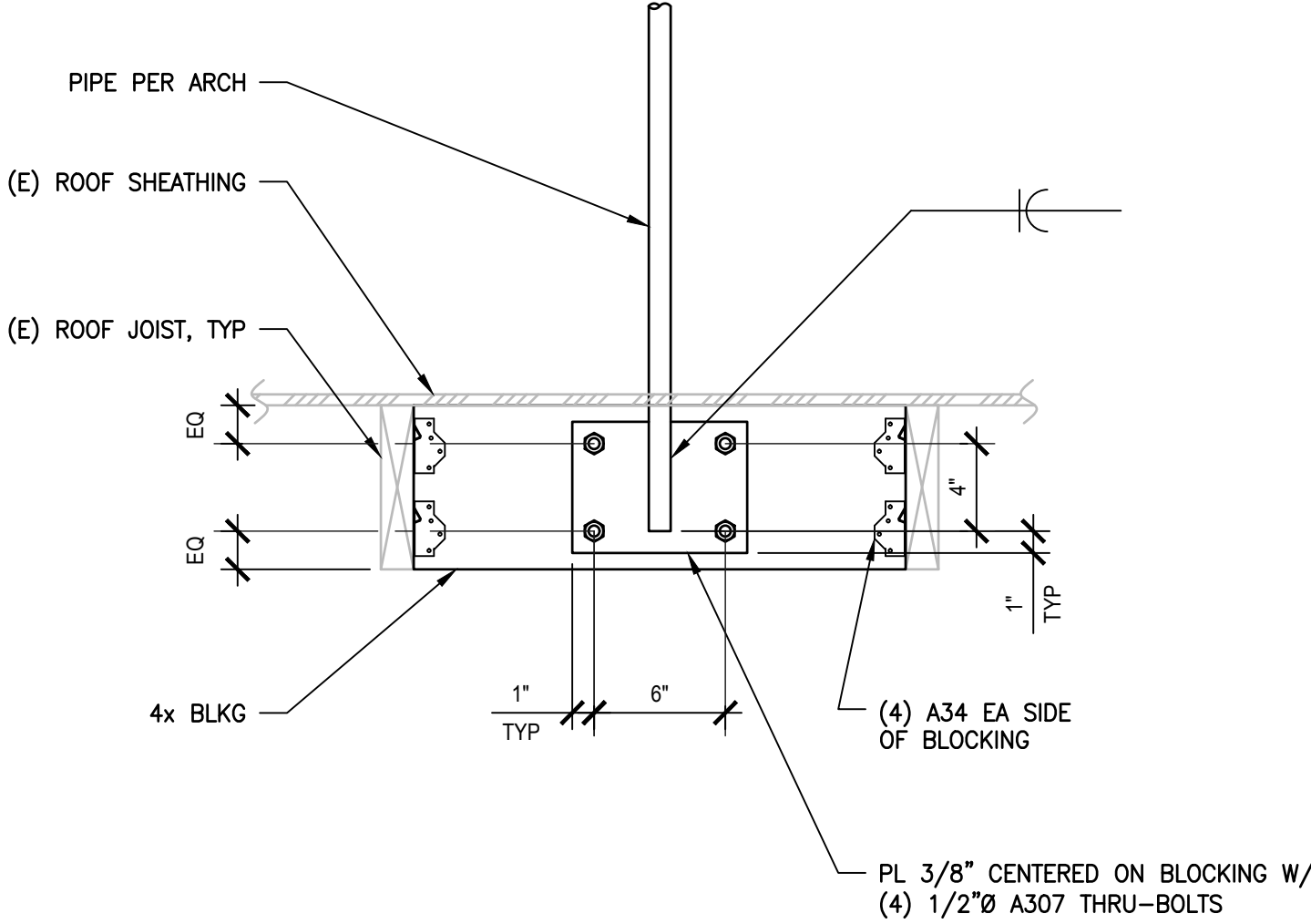
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REGISTERED PROFESSIONAL
ARCHITECT
STATE OF CALIFORNIA
No. 10555
Exp. 12/31/2024

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XREF: X:\2022\RSD_MUSCATEL.dwg

			<div></div> <div>FILLER BLOCK NAILING1 1/2"x1'-0"1</div>	FILE NO: 19-91A#: 03-122718
			<div></div> <div>B: PLAN</div> <div></div> <div>A: SECTION</div> <div>"I" JOIST TO LVL MEMBER</div>	ROSEMEAD SCHOOL DISTRICT RSD - MUSCATEL MIDDLE SCHOOL HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K
			<div></div> <div>BUILT-UP MEMBERS1 1/2"x1'-0"2</div>	ROSEMEAD SCHOOL DISTRICT PARK ROSEMEAD 3907 ROSEMEAD BOULEVARD ROSEMEAD, CA 91770
			<div></div> <div>HANDRAIL POST ATTACHMENT TO JOISTS AT ROOF1 1/2"x1'-0"3</div>	JUBANY NAC ARCHITECTURE NAC NO: 161-21043 FILE: CC DRAWN: EMB/AL CHECKED: EMB/AL DATE: 11-17-2022 EQUIPMENT SUPPORT DETAILS

11-17-2022
01-31-2023



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

JUBANY NAC ARCHITECTURE
NAC NO: 161-21043
FILE: CC
DRAWN: EMB/AL
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DATE: 11-17-2022
EQUIPMENT SUPPORT DETAILS

11-17-2022
01-31-2023

EQUIPMENT SUPPORT
DETAILS

S4.02

GENERAL LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	NEW LINework
	EXISTING LINework
	DEMOLITION LINework
	DIRECTION OF FLOW

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
	SHEET METAL DUCT
	HIDDEN SHEET METAL DUCT
	INTERNALLY INSULATED SHEET METAL DUCT CLEAR INSIDE DIMENSION SHOWN, LINER THICKNESS IN PARENTHESIS
	FILTER
	LOUVER
	ACCESS DOOR OR ACCESS PANEL (AP) IN DUCTWORK

PIPING LEGEND

SYMBOL	DESCRIPTION
	NEW PIPING (SIZE-SERVICE)
	EXISTING PIPING (SIZE-SERVICE)
	ELBOW FACING AWAY FROM VIEWER
	ELBOW FACING TOWARD VIEWER
	TEE FACING AWAY FROM VIEWER
	TEE FACING TOWARD VIEWER
	PIPE CAP
	TRANSITION, ASYMMETRIC
	TRANSITION, SYMMETRIC
	EXPANSION JOINT (COMPENSATOR)
	PIPE GUIDE
	PIPE ANCHOR
	UNION, SCREWED
	DRAIN, FUNNEL
	PUMP
	BALL VALVE
	CONDENSATE DRAIN
	ELBOW DOWN
	PIPE TEE UP & DOWN OR ELBOW UP
	PIPE TEE DOWN
	PIPE TEE UP

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HT	HEIGHT
AHU	AIR HANDLING UNIT	HZ	HERTZ
AL	ALUMINUM	ID	INSIDE DIAMETER
AP	ACCESS PANEL	IN	INCHES
APD	AIRSIDE PRESSURE DROP	KW	KILOWATTS
BD	BLOWDOWN	LAT	LEAVING AIR TEMPERATURE
BDD	BACK DRAFT DAMPER	LBS	POUNDS
BFC	BELOW FINISHED CEILING	LF	LINEAR FEET
BFP	BACK FLOW PREVENTER	LWT	LEAVING WATER TEMPERATURE
BHP	BRAKE HORSEPOWER	MAX	MAXIMUM
BLOG	BUILDING	MBH	THOUSAND BTU PER HOUR
BOB	BOTTOM OF BEAM	MC	MECHANICAL CONTRACTOR
BOP	BOTTOM OF PIPE	MCA	MINIMUM CIRCUIT AMPS
BTU	BRITISH THERMAL UNIT	MH	MANHOLE
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM
CHWR	CHILLED WATER RETURN	MOCOP	MAXIMUM OVERLOAD CIRCUIT PROTECTION
CHWS	CHILLED WATER SUPPLY	NFA	NET FREE AREA
CI	CAST IRON	NIC	NOT IN CONTRACT
CL	CENTER LINE	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
CP	CONDENSATE PUMP	OAT	OUTSIDE AIR TEMPERATURE
CT	COOLING TOWER	OBD	OPPOSED BLADE DAMPER
CU	CONDENSING UNIT	OC	ON CENTER
CV	CONSTANT VOLUME BOX	OD	OUTSIDE DIAMETER
CWR	CONDENSER WATER RETURN	OA	OUTSIDE AIR
CWS	CONDENSER WATER SUPPLY	PD	PRESSURE DROP
CWFR	CONDENSER WATER FILTER RETURN	PERF	PERFORATED
CWFS	CONDENSER WATER FILTER SUPPLY	PH	PHASE
DB	DRY BULB	POD	POINT OF DISCONNECT
DEG	DEGREES	PR	PRESSURE RELIEF
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DL	DOOR LOUVER	PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
DN	DOWN	PSIG	POUNDS PER SQUARE INCH GAUGE
DX	DIRECT EXPANSION	PVC	POLYVINYL CHLORIDE
(E)	EXISTING	RA	RETURN AIR
EA	EACH	RF	RETURN FAN
EAT	ENTERING AIR TEMPERATURE	RLA	RATED LOAD AMPS
EC	ELECTRICAL CONTRACTOR	RPM	REVOLUTIONS PER MINUTE
EFF	EFFICIENCY	SA	SUPPLY AIR
EL	ELEVATION	SF	SUPPLY FAN
ESP	EXTERNAL STATIC PRESSURE	SPEC	SPECIFICATION
EWT	ENTERING WATER TEMPERATURE	SS	STAINLESS STEEL
°F	DEGREES FAHRENHEIT	STD	STANDARD
FD	FIRE DAMPER	TAD	TRANSFER AIR DUCT
FG	FILTER GRILLE	TDH	TOTAL DYNAMIC HEAD
FLA	FULL LOAD AMPS	TEFC	TOTALLY ENCLOSED FAN COOLED
FLR	FLOOR	TSP	TOTAL STATIC PRESSURE
FOB	FLAT ON BOTTOM	TYP	TYPICAL
FOT	FLAT ON TOP	UC	UNDERCUT
FPI	FINS PER INCH	TYP	TYPICAL
FFM	FEET PER MINUTE	V	VOLTS
FSD	FIRE SMOKE DAMPER	VAV	VARIABLE AIR VOLUME
FT	FEET OR FOOT	VD	VOLUME DAMPER
GA	GAUGE	VFD	VARIABLE FREQUENCY DRIVE
GALV	GALVANIZED	VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR	W	WITH
GPH	GALLONS PER HOUR	W/O	WITHOUT
GPM	GALLONS PER MINUTE	WB	WET BULB
HB	HOSE BIBB	WC	WATER COLUMN
HD	HEAD	WG	WATER GAUGE
HHWR	HEATING HOT WATER RETURN	WPD	WATER PRESSURE DROP
HHWS	HEATING HOT WATER SUPPLY	WT	WEIGHT
HP	HEAT PUMP		

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

CONTROL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	ALARM	PS	PRESSURE SWITCH
AFMS	AIRFLOW MONITORING STATION	PT	PRESSURE TRANSMITTER
AI	ANALOG INPUT	RH	RELATIVE HUMIDITY
AO	ANALOG OUTPUT	S	STATUS
CS	CURRENT SWITCH	SC	SPEED CONTROL
DI	DIGITAL INPUT	SI	SPEED INDICATOR
DO	DIGITAL OUTPUT	SP	SETPOINT
DP	DIFFERENTIAL PRESSURE	SS	START/STOP
FS	FLOW SWITCH	T	TEMPERATURE
FM	FLOW METER	TI	TEMPERATURE INDICATOR
HQA	HANDS-OFF-AUTO	VA	DAMPER/VALVE ACTUATOR
KW	KILOWATTS	VP	VELOCITY PRESSURE
LA	LEVEL ALARM	VSH	VIBRATION SWITCH
MCD	MOTOR OPERATED DAMPER	ZC	CLOSED END SWITCH
NC	NORMALLY CLOSED	ZI	POSITION INDICATOR
NO	NORMALLY OPEN	ZO	OPEN END SWITCH

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

SHEET INDEX

SHEET	DESCRIPTION
M001	GENERAL NOTES, LEGENDS, ABBREVIATIONS AND SHEET INDEX
M002	SCHEDULES - MUSCATEL
M101	MECHANICAL SITE PLAN - MUSCATEL
M601	DETAILS
M602	DETAILS
M701	TITLE 24 COMPLIANCE FORMS - MUSCATEL

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE 2016 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN. YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
- SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
- WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DRAWINGS AND SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
- CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
- THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF HVAC SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE OWNERS REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
- EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.
- THIS CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM A DESIGNATED STRUCTURAL ENGINEER AND THE OWNER.
- ALL PIPE ELBOWS SHALL BE LONG RADIUS UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS.
- INSTALL MANUAL VOLUME DAMPERS WITHIN DUCT BRANCHES TO BALANCE AIRFLOW CFM. ON INSULATED DUCTS, MOUNT DAMPER REGULATOR ON 2" STAND-OFF BRACKET TO CLEAR INSULATION.
- ALL MATERIAL EXPOSED WITHIN RA PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND SMOKE DEVELOPED INDEX NOT GREATER THAN 50. COMPLY WITH CMC-602.2.
- COORDINATE ACCESS TO EQUIPMENT WITH WORK OF OTHER TRADES. PROVIDE DUCT ACCESS DOORS AND CEILING ACCESS DOORS TO ALLOW ACCESS FOR FILTER CHANGEOUT, CONTROLS ACCESS AND ACCESS TO SERVICE/REMOVE COMPONENTS INCLUDING, BUT NOT LIMITED TO, FANS, PULLEYS, SHEAVES, BELTS, ETC.
- MEP COMPONENT ANCHORAGE NOTE:
 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
 - 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.

ALL MECHANICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 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 COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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

THE ANCHORAGE OF ALL MECHANICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

- PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTE:

PIPING AND DUCTWORK 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 SECTIONS 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 A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPO 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.

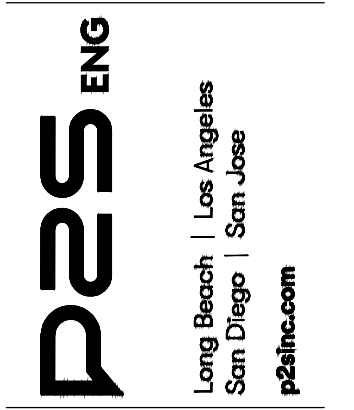
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP \times MD \times PP \times E \times - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP \square MD \square PP \square E \square - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPO PRE-APPROVAL (OPM #) # _____

FILE NO: 19-91

Air: 03-122718



DESIGNED BY: Lynn Bunch
CHECKED BY: Lynn Bunch
DATE: 11/11/2022
PROJECT: RSD - MUSCATEL MIDDLE SCHOOL HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K
SHEET: 19-91

ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K

ROSEMEAD SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

JUBANY
NAC
ARCHITECTURE

NAC NO: 161-21043

FILE: JL

DRAWN: SN

CHECKED: SN

DATE: 10-06-2022

GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SHEET INDEX

M001

PACKAGED AIR CONDITIONING UNITS																											
MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	SUPPLY FAN				COOLING CAPACITY			SEER	TOTAL HEATING CAPACITY					ELECTRICAL					OUTSIDE AIR CFM SETPOINT	OPERATING WEIGHT LBS	CURB WEIGHT LBS.	MAX. OPERATING WEIGHT LBS.	REMARKS
					AIRFLOW CFM	HP/(BHP)	ESP	RPM	TOTAL MBH	SENSIBLE MBH	TONS		INPUT MBH	OUTPUT MBH	ENTERING AIR	LEAVING AIR	THERMAL EFFICIENCY	VOLTAGE	PHASE	FLA	MCA	MOCP					
															°F DB	°F DB											
RTU-M6	CARRIER 48GCGM05A2A5-0A1A0	MUSCATEL BLDG E ROOF	GAS HEAT/ELEC COOL	CLASSROOM 6	1,600	1.0/(0.62)	0.5	1,792	49.96	37.06	4	16.1	60.0	49.0	70.0	98.4	81%	230	3	26.0	27.0	30.0	450	675	0	675	1345611
RTU-M7	CARRIER 48GCGM05A2A5-0A1A0	MUSCATEL BLDG E ROOF	GAS HEAT/ELEC COOL	CLASSROOM 7	1,600	1.0/(0.62)	0.5	1,792	49.96	37.06	4	16.1	60.0	49.0	70.0	98.4	81%	230	3	26.0	27.0	30.0	450	675	0	675	1345611
RTU-M8	CARRIER 48GCGM05A2A5-0A1A0	MUSCATEL BLDG E ROOF	GAS HEAT/ELEC COOL	CLASSROOM 8	1,600	1.0/(0.62)	0.5	1,792	49.96	37.06	4	16.1	60.0	49.0	70.0	98.4	81%	230	3	26.0	27.0	30.0	450	675	0	675	1345611
RTU-M9	CARRIER 48GCGM05A2A5-0A1A0	MUSCATEL BLDG E ROOF	GAS HEAT/ELEC COOL	CLASSROOM 9	1,600	1.0/(0.62)	0.5	1,792	49.96	37.06	4	16.1	60.0	49.0	70.0	98.4	81%	230	3	26.0	27.0	30.0	450	675	0	675	1345611
RTU-M10	CARRIER 48GCGM07A2A5-0A1A0	MUSCATEL BLDG F ROOF	GAS HEAT/ELEC COOL	CLASSROOM 10	2,400	1.5/(1.14)	0.5	2,213	72.42	55.62	6	11.0/15.0	67.0	54.0	70.0	90.8	81%	230	3	27.0	28.0	45.0	600	675	0	675	1345611
RTU-M11	CARRIER 48GCGM05A2A5-0A1A0	MUSCATEL BLDG F ROOF	GAS HEAT/ELEC COOL	CLASSROOM 11	1,600	1.0/(0.62)	0.5	1,792	49.96	37.06	4	16.1	60.0	49.0	70.0	98.4	81%	230	3	26.0	27.0	30.0	450	675	0	675	1345611
RTU-M12	CARRIER 48GCGM05A2A5-0A1A0	MUSCATEL BLDG F ROOF	GAS HEAT/ELEC COOL	CLASSROOM 12	1,600	1.0/(0.62)	0.5	1,792	49.96	37.06	4	16.1	60.0	49.0	70.0	98.4	81%	230	3	26.0	27.0	30.0	450	675	0	675	1345611
RTU-ML	CARRIER 48GCGM06A2A3-0A1A0	MUSCATEL BLDG C ROOF	GAS HEAT/ELEC COOL	LIBRARY / MEDIA ROOM	2,000	1.0/(0.62)	0.5	1,792	49.96	37.06	5	16.1	60.0	49.0	70.0	98.4	81%	230	1	35.0	37.0	50.0	525	675	0	675	1345611
RTU-M26	CARRIER 50GCGM05A2A3-0A1A0	MUSCATEL BLDG J ROOF	HEAT PUMP	CLASSROOM 26	1,600	1.0/(0.62)	0.5	1,792	49.96	37.06	4	16.2	-	45.6	70.0	98.4	8.3 / 3.7	230	1	33.0	35.0	50.0	450	590	144	590	1345614
RTU-M27	CARRIER 50GCGM05A2A3-0A1A0	MUSCATEL BLDG K ROOF	HEAT PUMP	CLASSROOM 27	1,600	1.0/(0.62)	0.5	1,792	49.96	37.06	4	16.2	-	45.6	70.0	98.4	8.3 / 3.7	230	1	33.0	35.0	50.0	450	590	144	590	1345614

- 1

UNIT SHALL BE VERTICAL DISCHARGE.
- 2

UNIT SHALL BE HORIZONTAL DISCHARGE.
- 3

PROVIDE TITLE 24 COMPLIANT VENSTAR 2800 THERMOSTAT WITH ADJUSTABLE SETPOINT AND OVERRIDE CAPABILITY. REPLACE IN PLACE OF EXISTING THERMOSTAT.

4

PROVIDE WITH 2" MERV-13 FILTERS.

5

PROVIDE WITH 100% OSA ECONOMIZER WITH BAROMETRIC RELIEF.

6

UNIT DISCHARGE CONFIGURATION SHALL MATCH EXISTING. NO ADAPTER CURB REQUIRED FOR MOUNTING.

7

PROVIDE WITH CA-CAR-537-YRK-560-RTAP-20 MICROMETL CURB ADAPTER.

8

PROVIDE WITH CA-CAR-537-CAR-005 MICROMETL CURB ADAPTER.

9

EXISTING UNIT MODEL : CARRIER 48NLT048. CONTRACTOR TO VERIFY MODEL AND DIMENSIONS FOR ADAPTER CURB ATTACHMENT.

10

EXISTING UNIT MODEL : CARRIER 48NLT042. CONTRACTOR TO FIELD VERIFY MODEL AND DIMENSIONS FOR ADAPTER CURB ATTACHMENT.

11

EXISTING UNIT MODEL : CARRIER 48HJD005, 48HJD006 OR 48HJD007. CONTRACTOR TO FIELD VERIFY MODEL AND DIMENSIONS FOR CURB ATTACHMENT.

12

EXISTING UNIT MODEL : CARRIER 48HJD006. CONTRACTOR TO FIELD VERIFY MODEL AND DIMENSIONS FOR CURB ATTACHMENT.

13

EXISTING UNIT MODEL : YORK D1EG048. CONTRACTOR TO FIELD VERIFY MODEL AND DIMENSIONS FOR ADAPTER CURB ATTACHMENT.

14

EXISTING UNIT MODEL : BARD RPM366. CONTRACTOR TO FIELD VERIFY MODEL AND DIMENSIONS FOR ADAPTER CURB. PROVIDE CDI 1959854-1-9999-4000 OR EQUAL ADAPTER.

15

PROVIDE UNIT ON EXISTING 81"X79" ROOF PLATFORM. PROVIDE HORIZONTAL DISCHARGE. ATTACH PER STRUCTURAL.

PLUMBING PIPING MATERIALS SCHEDULE		
1. CONDENSATE DRAIN PIPING:	TYPE 1" COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD-FREE SOLDER JOINTS. ALL CONDENSATE DRAIN PIPING WITHIN THE BUILDING SHALL BE INSULATED.	
2. INSULATION OF CONDENSATE DRAIN PIPING:	GLASS FIBER PIPE INSULATION WITH FACTORY-APPLIED JACKET CONFORMING TO ASTM C547, 1-INCH THICK FOR PIPE SIZES 1" & SMALLER, 1½-INCH THICK FOR PIPE SIZES 1½" INCHES & LARGER. SEAL ALL JOINTS WITH THE FACTORY-APPLIED, SELF-SEAL LAP AND BUTT STRIPS, JOHNS MANVILLE MICRO-LOK HP, OR EQUAL.	
3. GAS PIPING:	SCHEDULE 40 BLACK STEEL PIPE CONFORMING TO ASTM A 53 WITH 150 PSIG MALLEABLE IRON THREADED FITTINGS. WELDED JOINTS FOR PIPE SIZES 2½" AND LARGER OR WELDED THROUGHOUT WHEN USED FOR MEDIUM PRESSURE. OUTDOOR PIPING EXPOSED TO ATMOSPHERE SHALL BE PAINTED WITH RUST INHIBITING PAINT.	
4. PIPE PROTECTION: PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS JOINING DISSIMILAR METALS.		

DESIGN

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ARCHITECT

STATE OF CALIFORNIA

NO. 10818

DATE: 10/16/2022

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ROSEMEAD SCHOOL DISTRICT

RSD - MUSCATEL MIDDLE SCHOOL

HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K

ROSEMEAD SCHOOL DISTRICT

PARK ROSEMEAD

3907 ROSEMEAD BOULEVARD

ROSEMEAD, CA 91770

JUBANY

NAC

ARCHITECTURE

NAC NO

161-21043

FILE

JL

DRAWN

SN

CHECKED

10-06-2022

DATE

10-06-2022

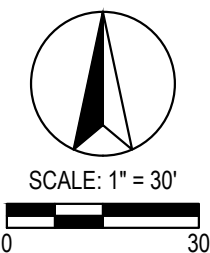
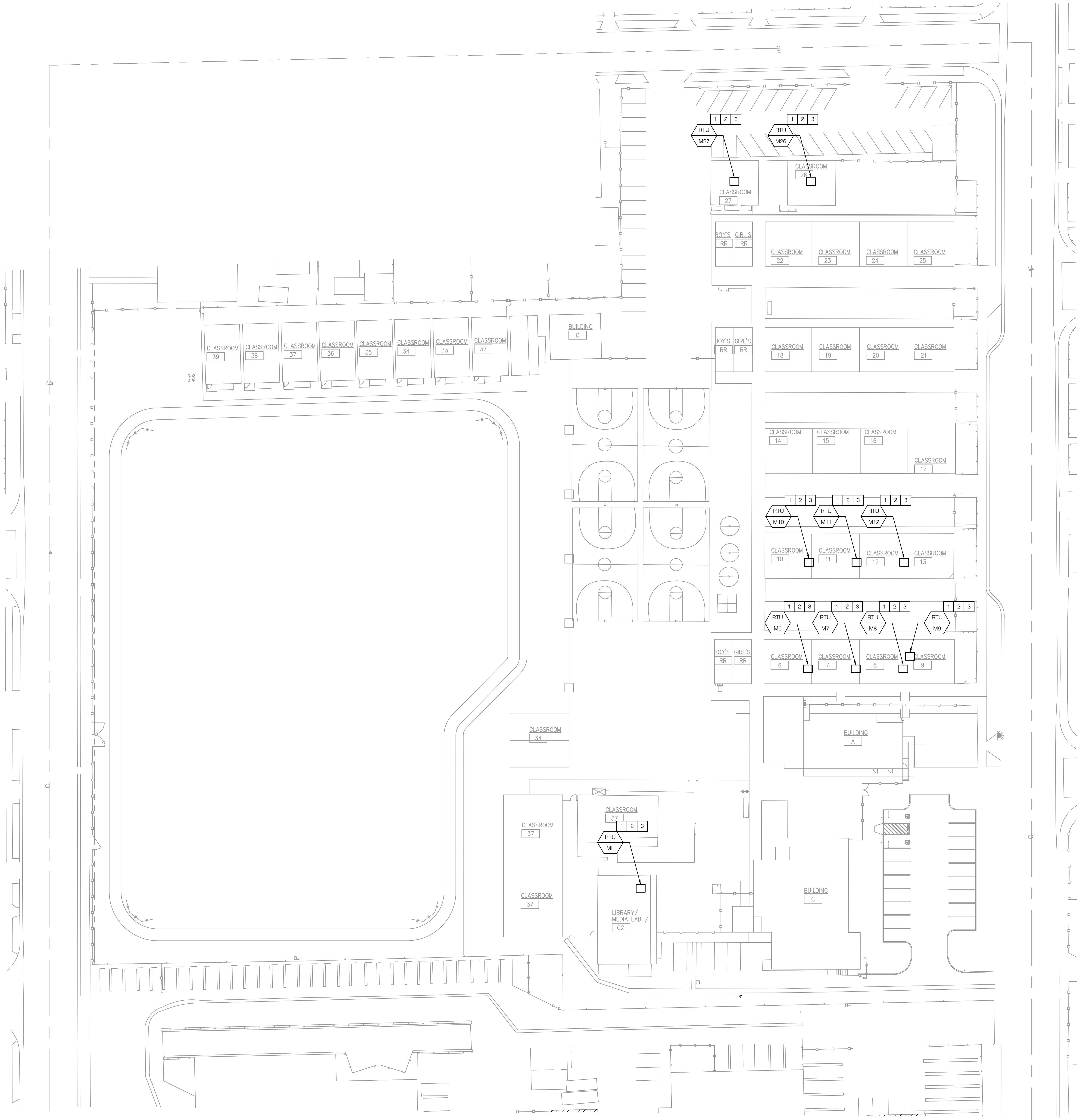
SCHEDULES - MUSCATEL

M002

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GENERAL NOTES

- WHERE EXISTING EQUIPMENT IS NOTED TO BE REPLACED, CONTRACTOR SHALL DEMOLISH EXISTING UNIT AND UTILITIES AS REQUIRED FOR NEW INSTALLATION. DISCONNECT GAS PIPING, UNIT DISCONNECT AND CONTROL WIRING AT UNIT LOCATION AND RECONNECT TO NEW UNIT. WALL AND ROOF OPENING SHALL BE COVERED UNTIL NEW WATERPROOFING IS COMPLETE.
- CONDENSATE AND GAS PIPING TO BE PAINTED TO MATCH THE EXTERIOR COLOR OF ROOF.

KEY NOTES

- REPLACE EXISTING ROOFTOP UNIT WITH NEW EQUIPMENT IN SAME LOCATION ON ROOF PER DETAIL 1/M601. NEW UNIT TO MOUNT TO EXISTING CURB WITH CURB ADAPTER.
- PROVIDE 3/4" CD FROM A/C UNIT AND INTERCEPT (E) 3/4" CD AT ROOF. FIELD VERIFY LOCATION OF (E) CD PIPE AND EXTEND AS REQUIRED. REFER TO DETAIL 5/M601.
- PROVIDE 3/4" GAS TO A/C UNIT AND INTERCEPT (E) 3/4" GAS AT ROOF. FIELD VERIFY LOCATION OF (E) GAS PIPE AND EXTEND AS REQUIRED. REFER TO DETAIL 4/M601.

FILE NO: 19-91

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ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



ROSEMEAD
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FILE:
DRAWN: JL
CHECKED: SN
DATE: 10-06-2022

MECHANICAL SITE PLAN -
MUSCATEL

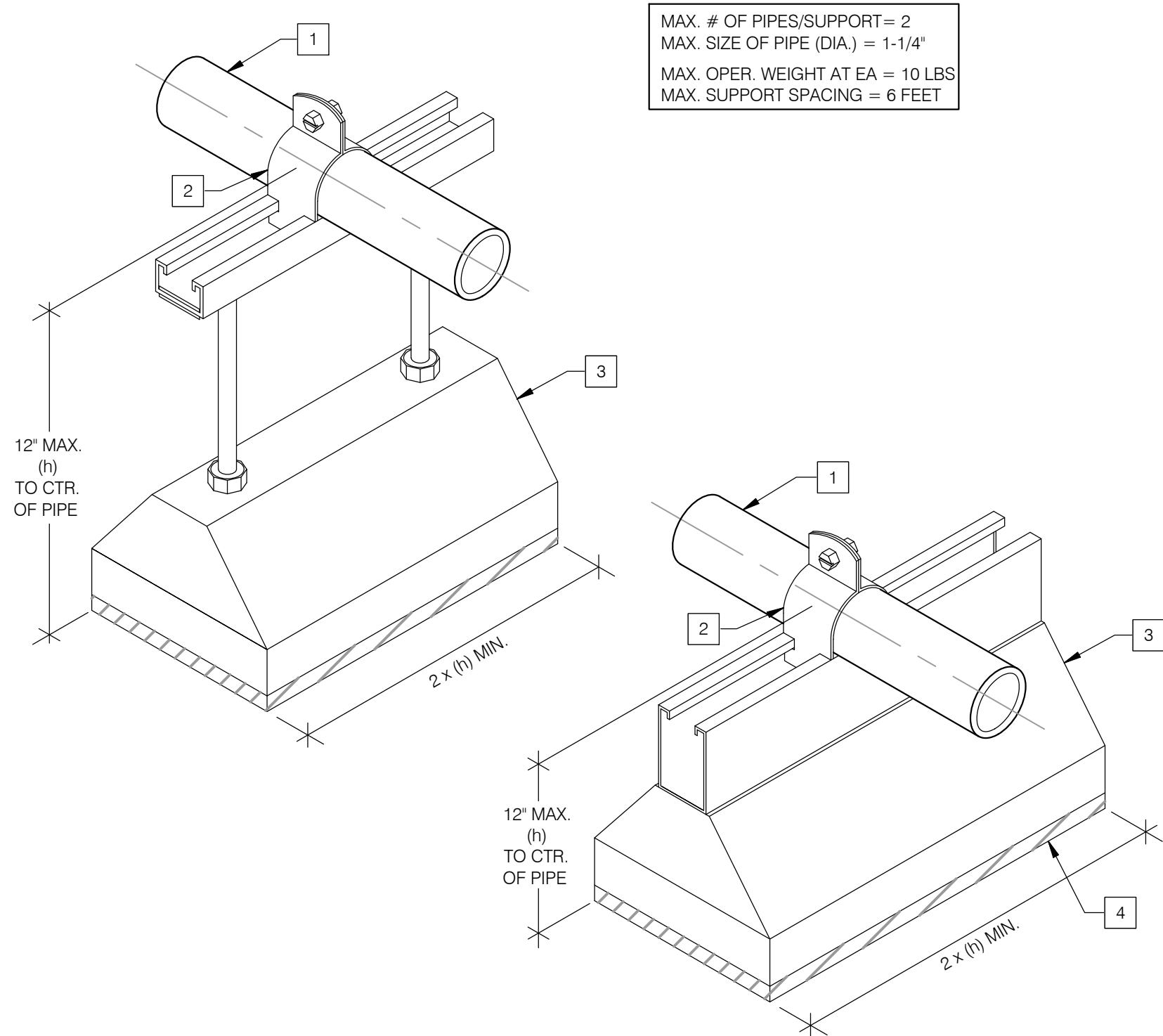
M101

GENERAL NOTE

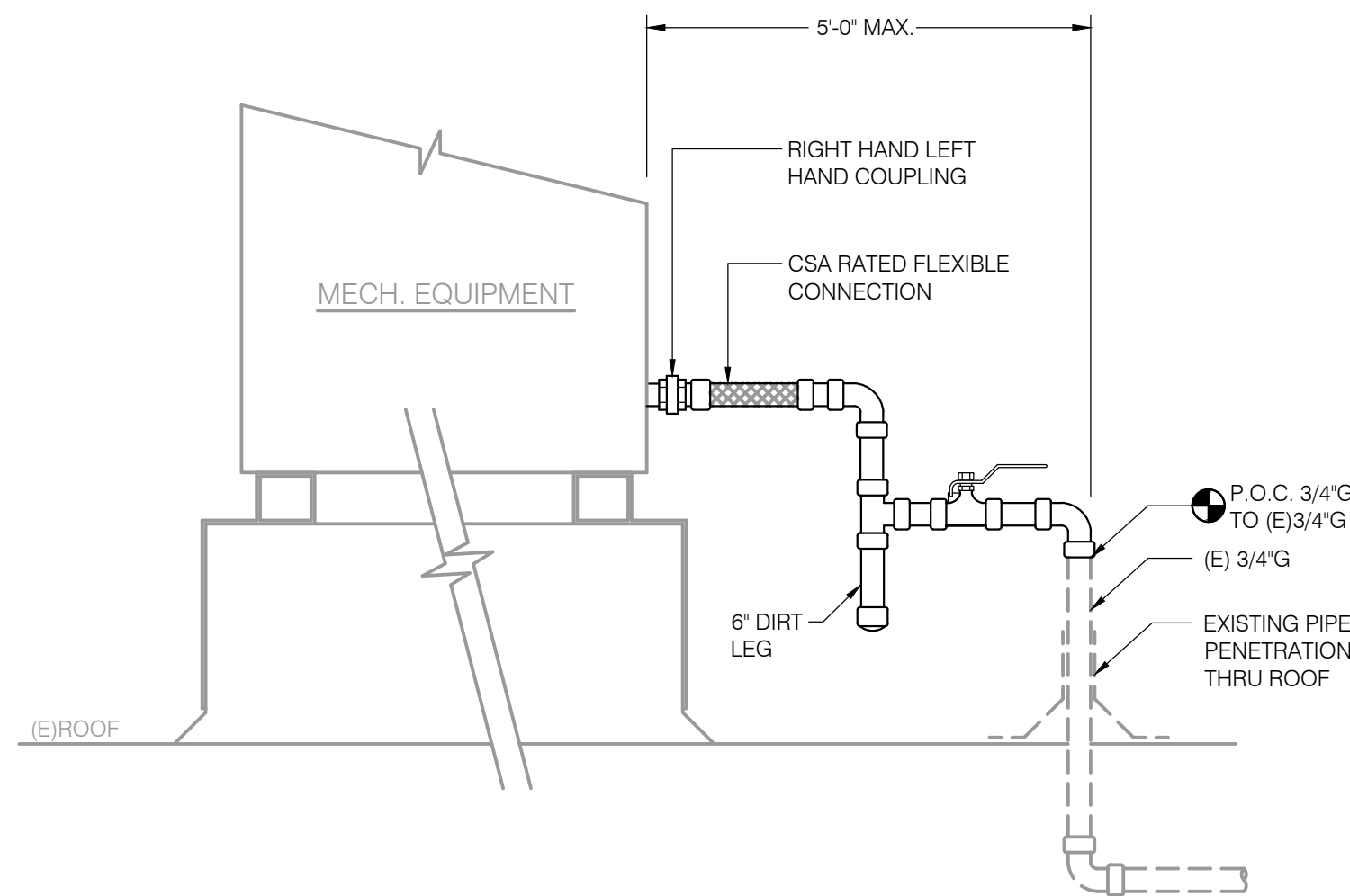
- A. REFER TO SPECIFICATION FOR PIPE SUPPORT SPACING.
B. CONDENSATE DRAIN PIPING SHALL SLOPE AT MINIMUM 1%.
C. REFER TO STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR MAX ROOF SLOPE.

DETAIL NOTES

- 1 PIPE AT ROOF - REFER TO SPECIFICATIONS FOR PIPE MATERIAL.
2 PIPE CLAMP - UNISTRUT P1113 OR EQUAL.
3 B-LINE C-PORT SERIES PIPE SUPPORT SYSTEM OR EQUAL.
4 SET ON MASTIC OR RUBBER PADDING AT PVC ROOF CONSTRUCTION AREAS - TYPICAL.



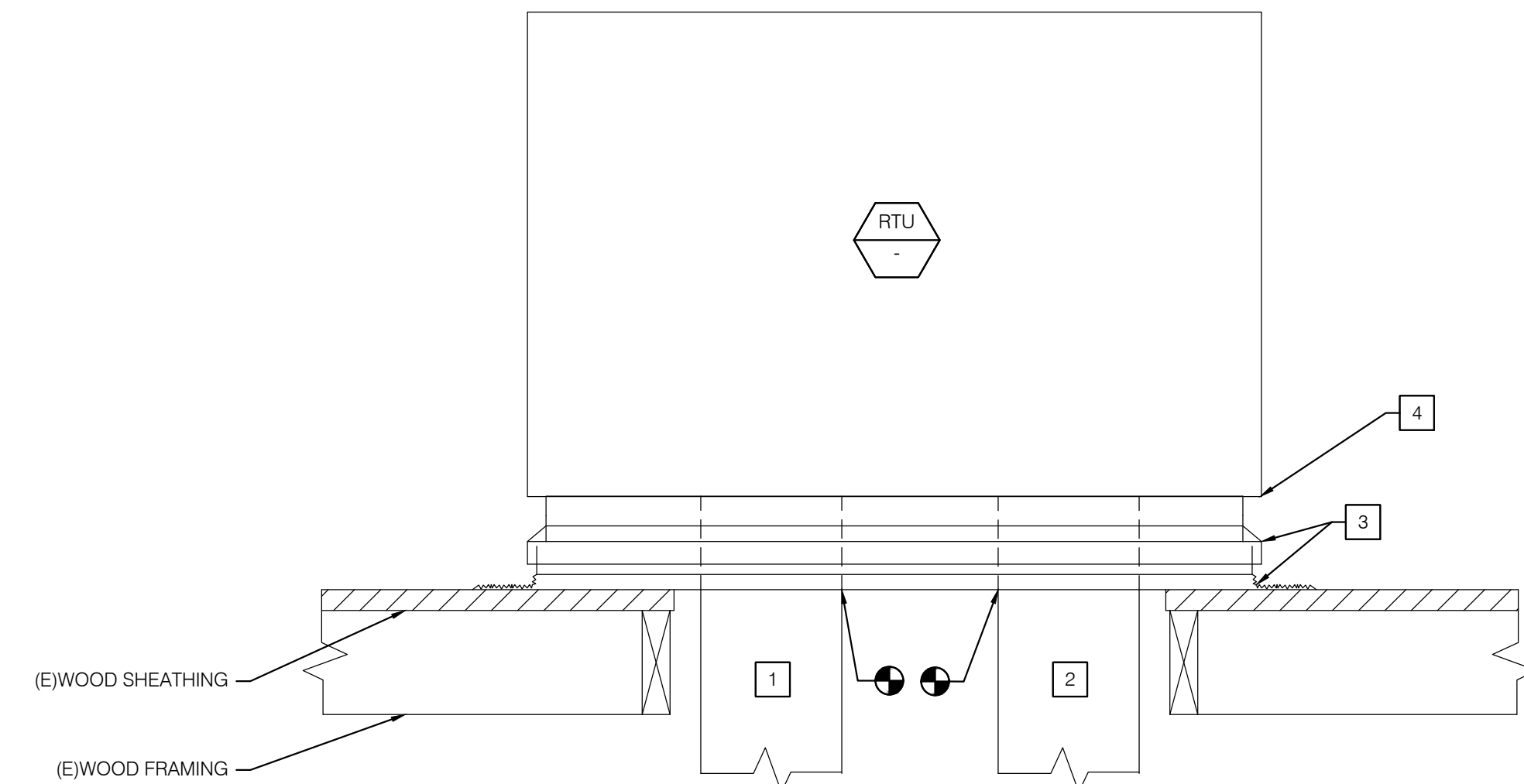
6 CONDENSATE DRAIN PIPE SUPPORT ON ROOF
NO SCALE



DETAIL GENERAL NOTES

- A. FIELD VERIFY EXACT POINT OF CONNECTION TO EXISTING UTILITIES.

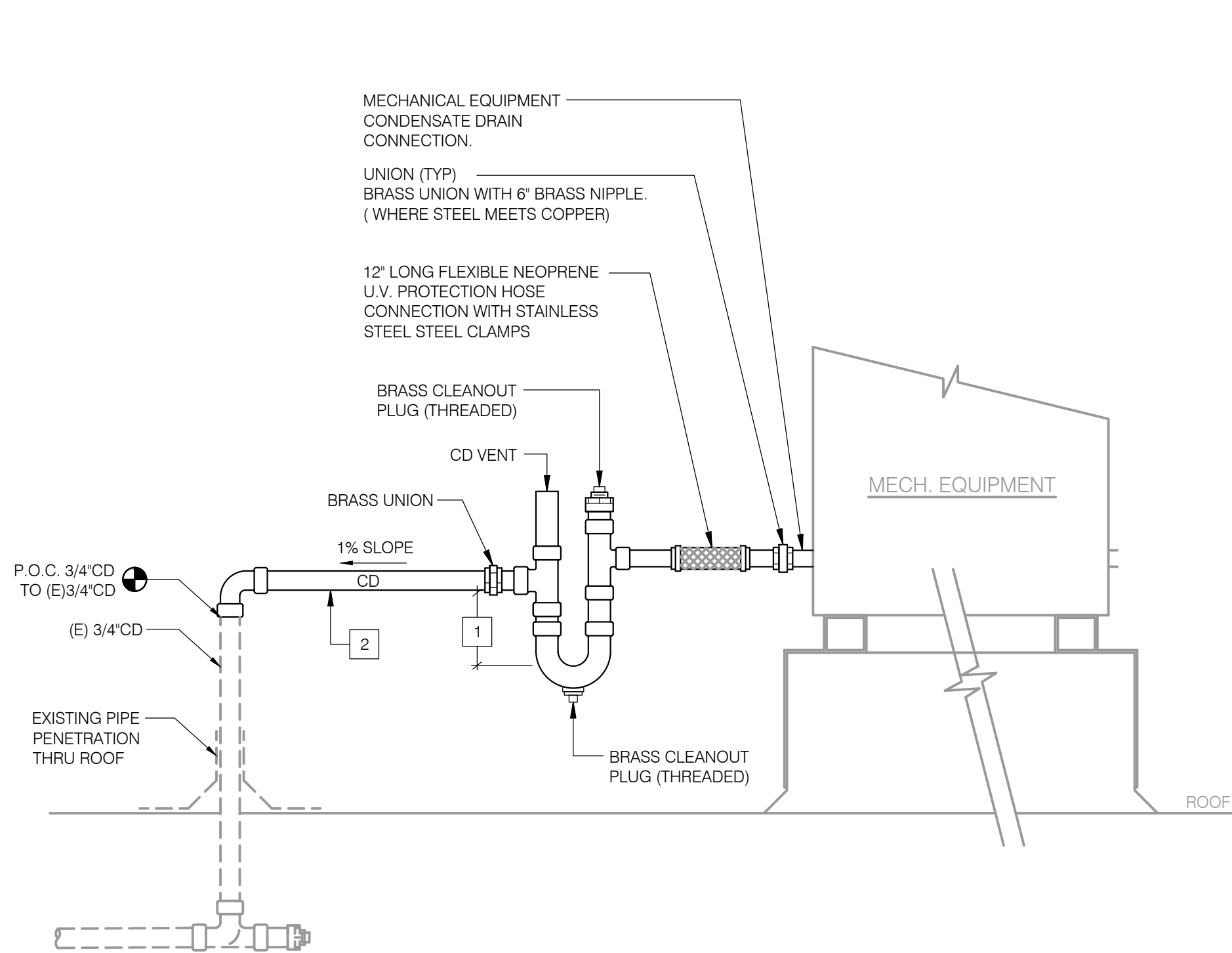
4 GAS CONNECTOR DETAIL
NO SCALE



NOTES

- 1 EXISTING SUPPLY DUCT. CONNECT TO UNIT SUPPLY IN CURB AT POC SHOWN.
2 EXISTING RETURN DUCT. CONNECT TO UNIT RETURN CURB AT POC SHOWN.
3 EXISTING ROOF CURB AND FLASHING.
4 MATCH EXISTING ANCHORAGE FROM UNIT TO CURB.

2 ROOFTOP UNIT INSTALLATION ON (E) CURB
NO SCALE



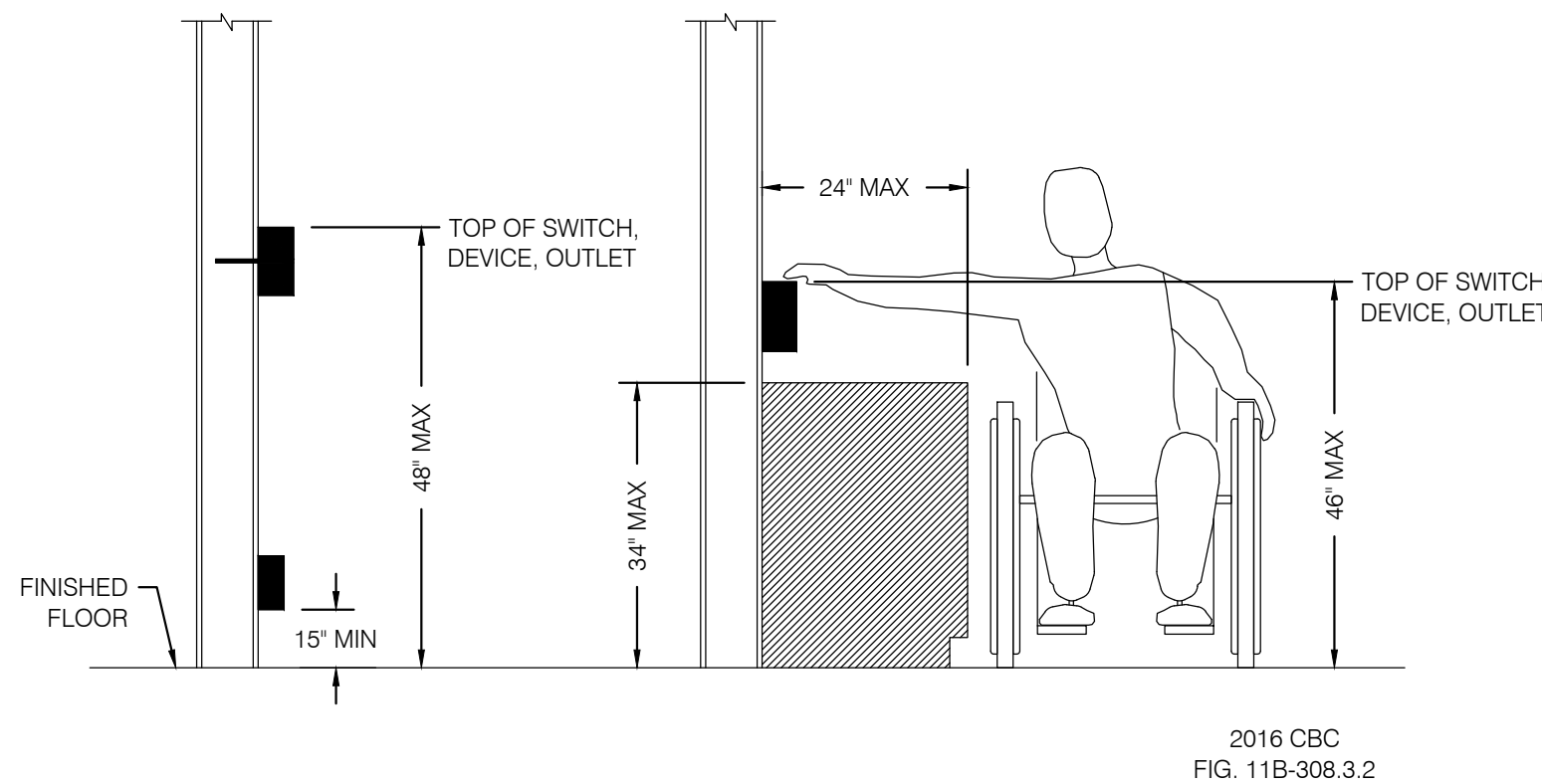
DETAIL KEY NOTES

- 1 DEPTH OF SEAL TO OVERCOME OPERATING STATIC PRESSURE +1\"/>

DETAIL GENERAL NOTES

- A. MANUALLY PRIME TRAP BEFORE START-UP.
B. SUPPORT DRAIN LINE TO PREVENT SAGS AND TERMINATE TO AN APPROVED RECEPTOR (LAVATORY TAILPIECE, SERVICE SINK, FLOOR SINK OR ROOF RECEPTOR.)

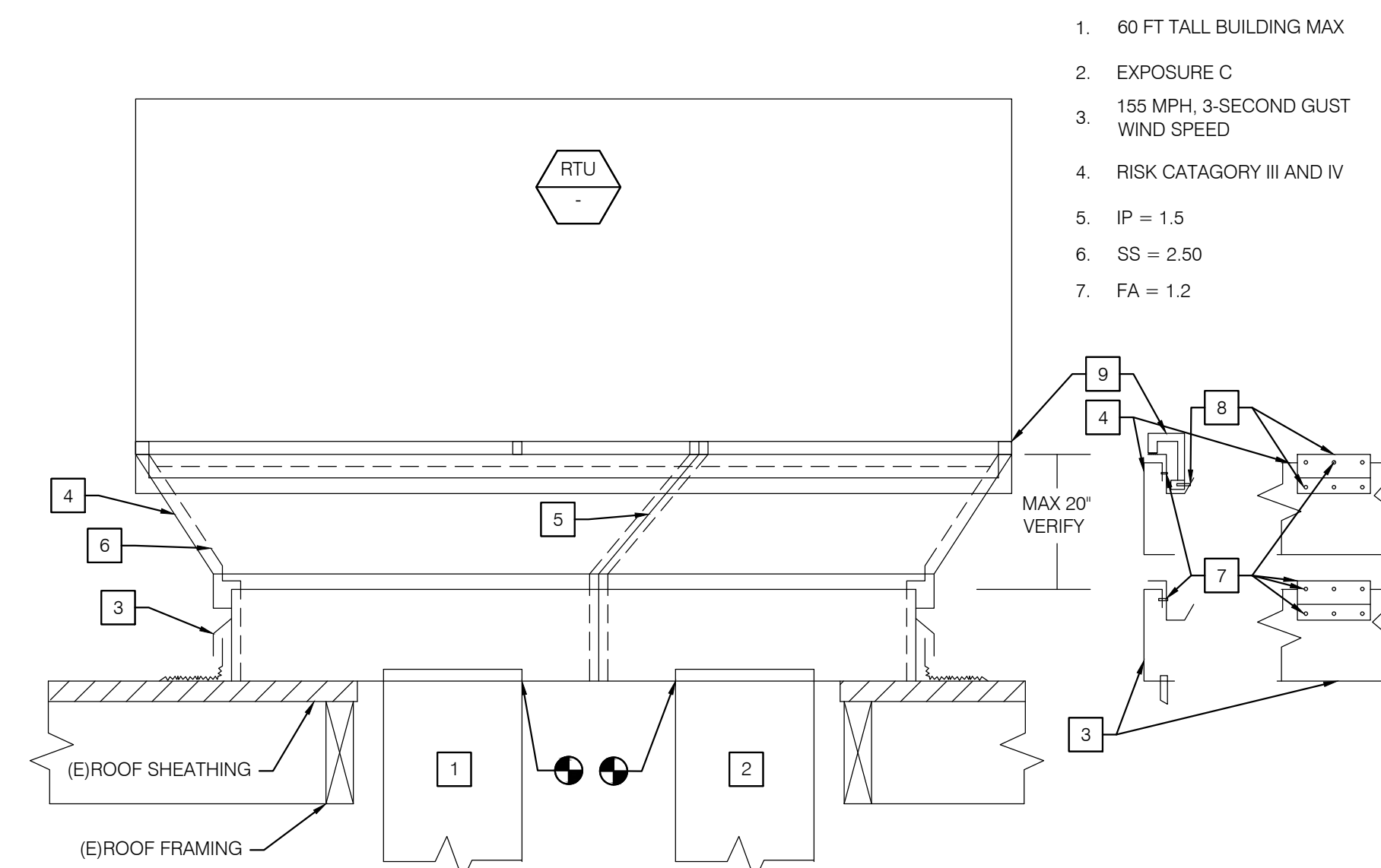
5 TYPICAL CONDENSATE DRAIN DETAIL
NO SCALE



NOTES

1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

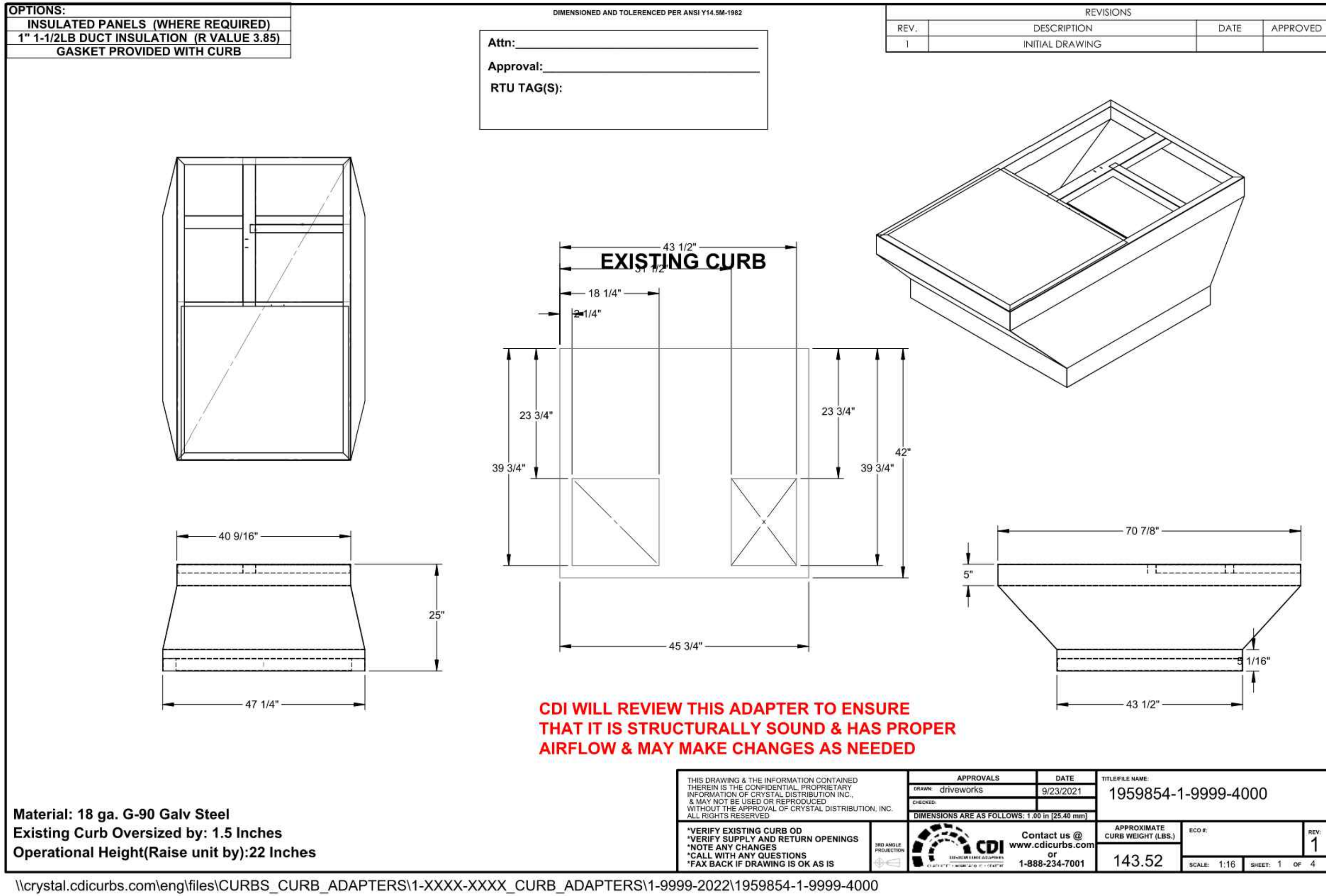
3 MOUNTING HEIGHT OVER OBSTRUCTION
NO SCALE



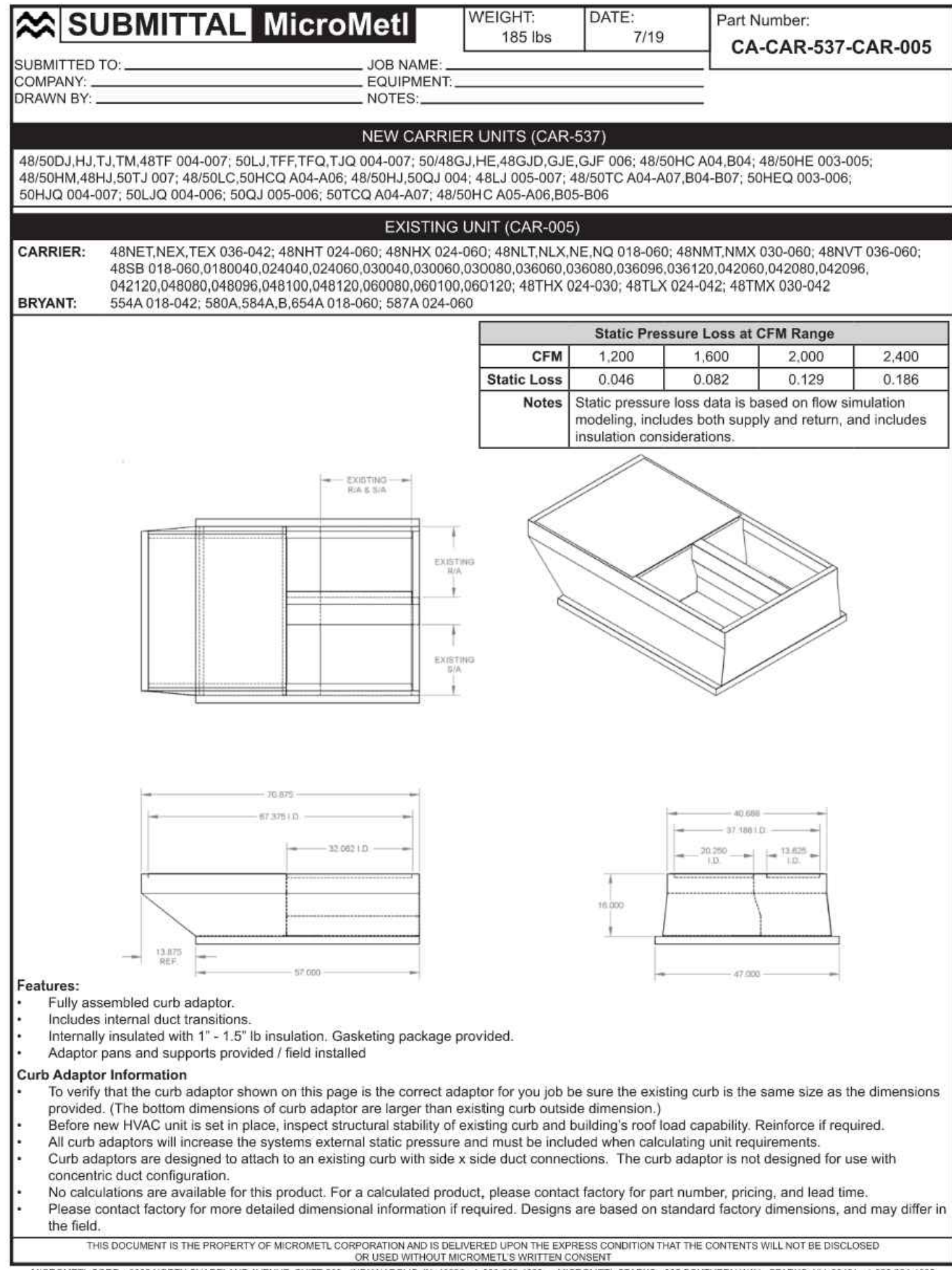
NOTES

- 1 EXISTING SUPPLY DUCT. CONNECT TO ADAPTER CURB AT POC SHOWN.
2 EXISTING RETURN DUCT. CONNECT TO ADAPTER CURB AT POC SHOWN.
3 EXISTING ROOF CURB AND FLASHING.
4 14 GA FULLY ASSEMBLED ADAPTOR CURB. MOUNT TO EXISTING CURB PER STRUCTURAL DRAWINGS. REFER TO MECHANICAL SCHEDULE AND DETAIL FOR ACCESSORY.
5 INTERNAL DUCT TRANSITIONS.
6 INTERNAL INSULATION WITH GASKETING.
7 14 GA MICROHOLD CLIPS. ATTACH TO CURB W/ #10 X 1\"/>

1 ROOFTOP UNIT INSTALLATION W/ CURB ADAPTER
NO SCALE



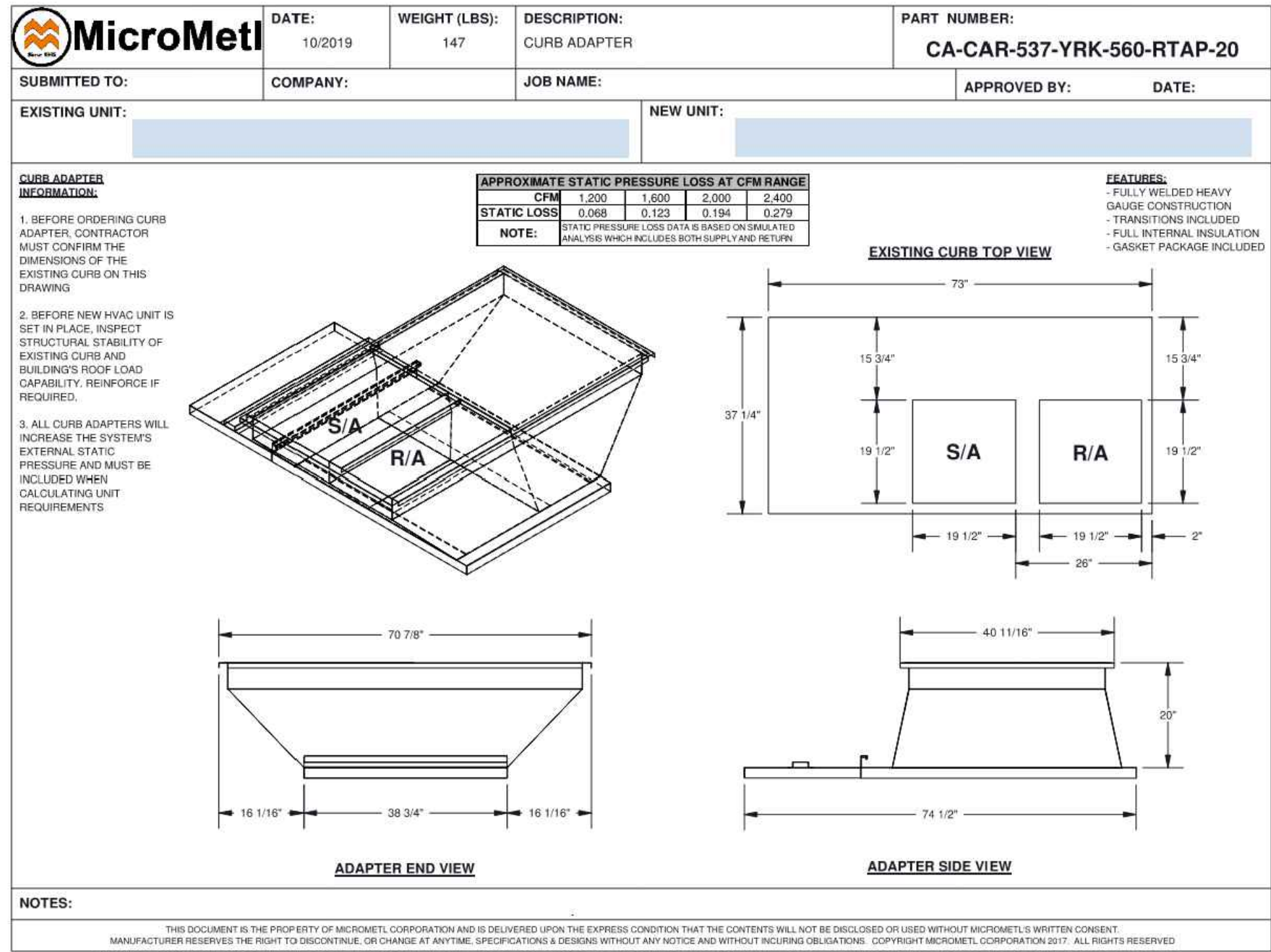
\\crystal.cdicurbs.com\eng\files\CURBS_CURB_ADAPTERS\1-XXXX-XXXX_CURB_ADAPTERS\1-9999-2022\1959854-1-9999-4000



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4 CURB ADAPTER: CDI 1959854-1-999-4000 NO SCALE

2 CURB ADAPTER: CA-CAR-537-CAR-005 NO SCALE



5 NOT USED NO SCALE

3 CURB ADAPTER: CA-CAR-537-YRK-560-RTAP-20 NO SCALE

1 NOT USED NO SCALE



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DETAILS

M602

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NOTE CALLOUT		DOWNLIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN		EMERGENCY DOWNLIGHT FIXTURE FED FROM GENERATOR/INVERTER/ BATTERY BACKUP
	MECHANICAL EQUIPMENT CALLOUT. SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS		PENDANT LUMINAIRE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	SECTION CALLOUT		WALLWASH LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	FEEDER CALLOUT		WALL MOUNTED LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EXISTING FEEDER CALLOUT		EMERGENCY WALL MOUNTED LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
	NEW LINWORK		BOLLARD LUMINAIRE
	EXISTING LINWORK		POST TOP LUMINAIRE
	DEMOLISHED LINWORK		POLE MOUNTED LUMINAIRE, SINGLE HEAD
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING		POLE MOUNTED LUMINAIRE, DOUBLE HEAD
	CONDUIT EXPOSED		POLE MOUNTED LUMINAIRE, TRIPLE HEAD
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR		POLE MOUNTED LUMINAIRE, QUAD HEAD
	CONDUIT EMERGENCY		IN GRADE LUMINAIRE
	MULTI-CHANNEL RACEWAY		PATHWAY LUMINAIRE
	CONDUIT TURNED UP		LANDSCAPE FIXTURE
	CONDUIT CAPPED		EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. SHADED SIDE DENOTES NUMBER OF FACES
	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED		JUNCTION BOX
	3/4" CONDUIT, TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE, NO MARKS INDICATES 2#12 & 1#12 GND WIRES) - SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE - DIAGONAL DENOTES GROUND WIRE		PHOTOCELL FOR EXTERIOR APPLICATIONS
	GENERATOR		DAYLIGHT SENSOR - CEILING MOUNTED
	SWITCH		RELAY
	CIRCUIT BREAKER		EMERGENCY RELAY UL 924 COMPLIANT
	2-WAY SWITCH, TRANSFER SWITCH		MOTION SENSOR - CEILING MOUNTED
	FUSE		MOTION SENSOR - CORNER OR WALL MOUNTED
	TRANSFORMER		MOTION SENSOR WITH AISLE/CORRIDOR LENS - CEILING MOUNTED
	GROUND CONNECTION		COMBINATION MOTION AND DAYLIGHT SENSOR
	MOTOR - SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER		LIGHTING CONTROL NETWORK DEVICE
	METER		DIGITAL TIMER SWITCH
	ELECTRONIC CIRCUIT MONITOR		MOTION SENSOR SWITCH
	480V DRAWOUT BREAKER		LOW VOLTAGE SWITCH
	VARIABLE FREQUENCY DRIVE		DIMMER MASTER SWITCH
	PANEL		DIGITAL DIMMING SWITCH
	FUSED DISCONNECT SWITCH		GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION
	NON-FUSED DISCONNECT SWITCH		THERMOSTAT WITH A 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
	COMBINATION STARTER/DISCONNECT SWITCH		MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION
	SWITCH MOTOR RATED		MODULAR FURNITURE - FLOOR BOX FEED CONNECTION
	SPLICE		MODULAR FURNITURE - POWER POLE FEED CONNECTION
	TERMINATION		LIGHTING CONTROL PANEL - SURFACE MOUNTED
	EXISTING TERMINATION		PANELBOARD - RECESSED MOUNTED
	MEDIUM VOLTAGE - AIR CIRCUIT BREAKER DRAWOUT BREAKER		PANELBOARD - SURFACE MOUNTED
	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH		DISTRIBUTION PANEL/ BOARD
	MEDIUM VOLTAGE MODULAR SPLICE		SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36" MIN FROM THE CENTER OF DEVICE.
	MEDIUM VOLTAGE EXISTING MODULAR SPLICE		SWITCH 3-WAY (48" AFF MAXIMUM)
	2x4 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		TIMER SWITCH (48" AFF MAXIMUM)
	2x4 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP		DUAL SWITCH (48" AFF MAXIMUM)
	2x2 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		PUSHBUTTON SWITCH
	2x2 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP		RECESSED ON WALL SURFACE FLOOR OR CEILING
	LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		RECESSED POKE-THROUGH - POWER/TEL/DATA RECESSED FLOOR BOX - POWER/TEL/DATA
	EMERGENCY LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP		20A, 125V DUPLEX RECEPTACLE FIRE RATED TYPE
	LINEAR PENDANT LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		20A, 125V QUAD RECEPTACLE FIRE RATED TYPE
	TRACK LIGHTING - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		
	UNDERCABINET / COVE FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		
	LED STRIP LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.		

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
1/C	SINGLE CONDUCTOR	KVA	KILOVOLT-AMPERES
&	AND	KW	KILOWATT
@	AT	LF	LINEAR FEET
A OR AMP	AMPERES	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
ABV	ASPHALT CONCRETE	LGST	LARGEST
A.C.	AMPERE FUSE RATING	LIS	LOAD INTERRUPTER SWITCH
AF	ABOVE	LOC	LOCATION
AFC	AVAILABLE FAULT CURRENT	LOTO	LOCK-OUT & TAG-OUT
AFF	ABOVE FINISHED FLOOR	LSI	LONG TERM, SHORT TERM, INSTANTANEOUS
AFG	ABOVE FINISH GRADE	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY	LV	LOW VOLTAGE
AL	ALUMINUM	M	METER
AL	APPROXIMATE	MAX	MAXIMUM
ARCH.	ARCHITECT	MCA	MAXIMUM CIRCUIT AMPACITY
AS	AMPERE SWITCH RATING	MCC	MOTOR CONTROL CENTER
ASCC	AVAILABLE SHORT CIRCUIT CURRENT	MCP	MOTOR CIRCUIT PROTECTOR
ATC	AIR TERMINAL CHAMBER	MFCR, MFR	MANUFACTURER
ATO	AUTOMATIC THROW-OVER (SWITCH)	MH	MANHOLE
AUTO	AUTOMATIC	ML	MECHANICAL INTERLOCK
AUX	AUXILIARY	MRC	MULTI-RATIO CURRENT TRANSFORMER
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BAT	BATTERY	MOCP	MAXIMUM OVERCURRENT PROTECTION
BEL	BELOW	MTD	MOUNTED
BKBD	BACKBOARD	MTG	MOUNTING
BKR	BREAKER	MTR	MOTOR
BLDG	BUILDING	MTTB	MAIN TELEPHONE TERMINAL BOARD
B.S.	BARE STRANDED	MV	MEDIUM VOLTAGE
C	CONDUIT	N	NORTH
CB	CIRCUIT BREAKER	NAC	NOTIFICATION APPLIANCE CIRCUIT
CC	CONSTANT CURRENT	NC	NORMALLY CLOSED
CEC	CALIFORNIA ELECTRICAL CODE	NCC	NATIONAL ELECTRICAL CODE
CF	CUBIC FEET	NF	NON-FUSED
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CL	CENTER LINE	NL	NIGHT LIGHT- 24HRS ON
CLG	CEILING	NO	NUMBER
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
C.O.	CONDUIT ONLY WITH PULL WIRE	OCPD	OVERCURRENT PROTECTIVE DEVICE
COL	COLUMN	OD	OUTSIDE DIAMETER
CP	COMMUNICATION PROCESSOR	OE	OVERHEAD ELECTRICAL
CPT	CONTROL POWER TRANSFORMER	OF	OIL FUSED CUTOUT
CR	CONTROL RELAY	OH	OVERHEAD
CSFD	COMBINATION SMOKE FIRE DAMPER	OL	OIL LEVER SWITCH
CT	CURRENT TRANSFORMER	P	POLE
CW	COLD WATER	PAC	PROGRAMMABLE AUTOMATION CONTROLLER
CU	COPPER	PB	PULL BOX
DAG	DIAGRAM	PC	PHOTOCELL
DIST.	DISTANCE	PCB	POLYCHLORINATED BIPHENYL
DL	DAMP LOCATION LISTING	PDS	PRESSURE DIFFERENTIAL SWITCH
DM	DIGITAL METER	PF	POWER FACTOR
DMM	DIGITAL METER MODULE	PIV OR Ø	PIVOT
DP	DISTRIBUTION PANEL	PLC	PAPER INSULATED, LEAD COVER
DIST.	DISTANCE	PH	POST INDICATING VALVE
DWG	DRAWING	PL	PLATE
DWP	DEPARTMENT OF WATER & POWER	PLC	PROGRAMMABLE LOGIC CONTROLLER
EA	EACH	PNE	PANEL
ECM	ELECTRONIC CIRCUIT MONITOR	POC	POINT OF CONNECTION
ELEC.	ELECTRICAL	PREF.	PREFERRED
EM	EMERGENCY	PRI	PRIMARY
EMH	ELECTRICAL MANHOLE	PVC	POLY-VINYL CHLORIDE
EMT	ELECTRICAL METALLIC TUBING	PWR	POWER
EPO	EMERGENCY POWER OFF	REC/RECEPT	RECEPTACLE
EPR	ETHYLENE PROPYLENE RUBBER	REQD	REQUIRED
EQUIP	EQUIPMENT	RCS	RIGID GALVANIZED STEEL
ER	EXISTING TO BE REMOVED	RMC	RIGID METAL CONDUIT
ERR	RECONNECTED	RM	REDUCED PRESSURE BACK FLOW PREVENTER
EXIST(E)	EXISTING	ROOM	ROOM
EXP	EXPLOSION PROOF	RTAC	REAL TIME AUTOMATION CONTROLLER
FA	FIRE ALARM	SCCR	SHORT CIRCUIT CURRENT RATING
FFE	FINISHED FLOOR ELEVATION	SF	SQUARE FEET
FIN.	FINISH	SHT	SHEET
FIP	FIELD INTERFACE PANEL	SIG	SIGNAL
FIXT	FIXTURE	SP	SPARE
FLA	FULL LOAD AMPS	SPECS	SPECIFICATIONS
FLR	FLOOR	ST	STREET
FLUOR	FLUORESCENT	STD	STANDARD
FT	FEET	STP	SHIELDED TWISTED PAIR
FACP	FIRE ALARM CONTROL PANEL	SW	SWITCH
FATC	FIRE ALARM TERMINAL CABINET	SWBD	SWITCHBOARD
FMC	FLEXIBLE METAL CONDUIT	SWGR	SWITCHGEAR
FO	FIBER OPTIC	SWST	SWITCHING STATION
FTG	FOOTING	TB	TERMINAL BLOCK
GEN	GENERATOR	TEL/TELE	TELEPHONE
GF	GROUND FAULT INTERRUPTER	TMH	TELEPHONE MANHOLE
GFR	GROUND FAULT RELAY	T.O.D.	TOP OF DUCTBANK
GG	GREEN GROUND	T.O.M.	TOP OF MANHOLE
GND	GROUND	TPS	TWISTED SHIELDED PAIR
HCA	HAND-OFF-AUTOMATIC	TRANSF.XFMR	TRANSFORMER
HP	HORSEPOWER	TS	TAMPER SWITCH
HT	HEIGHT	TYP	TYPICAL
HTR	HEATER	UG	UNDERGROUND
HZ	HERTZ	UON	UNLESS OTHERWISE NOTED
ICON	INTEGRATED COMMUNICATIONS OPTICAL - NETWORK	V	VOLTS
IE	INVERT ELEVATION	VA	VOLT-AMPERES
IED	INTELLIGENT ELECTRONIC DEVICES	VB	VIBRATION SWITCH
IMC	INTERMEDIATE METAL CONDUIT	VFD	VARIABLE FREQUENCY DRIVE
ISC	SHORT CIRCUIT CURRENT	W	WATTS
INCAND	INCADESCENT	W	WITH
J.B.	J-BOX	WO	WITHOUT
KCMIL	THOUSAND CIRCULAR MILS	WCR	WITHSTAND CLOSE-ON RATING
KV	KILOVOLT	WP	WEATHERPROOF
		Z	IMPEDANCE

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL AND STATE, WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
- MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:

- ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.
- A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- B. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220V RECEPTACLES HAVING A FLEXIBLE CABLE.
- C. 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 DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

5. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g. HCAI 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 DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP |] MD |] PP |] E |] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP |] MD |] PP |] E |] OPTION 2: SHALL COMPLY WITH HCAI PRE-APPROVAL (OPM#) #:

SHEET INDEX

SHEET	DESCRIPTION
E001	GENERAL NOTES, LEGENDS, ABBREVIATIONS, AND SHEET INDEX
E002	SCHEDULES - MUSCATEL
E101	ELECTRICAL SITE PLAN - MUSCATEL
E601	DETAILS

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GENERAL NOTES,
LEGENDS,
ABBREVIATIONS, AND
SHEET INDEX

E001

GENERAL NOTES

- WHERE EXISTING CIRCUIT BREAKERS AND FEEDERS ARE BEING RE-USED, CONTRACTOR SHALL VERIFY THE EXISTING CIRCUIT FOR THAT HVAC UNIT IS SERVING THE RESPECTIVE BUILDING PER THE SCHEDULE. MODIFY UNIT NAMES IN THE PANEL DIRECTORY AS REQUIRED TO MATCH THE RESPECTIVE UNIT THAT IS SERVED.
- REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL EQUIPMENT INFORMATION.
- HVAC EQUIPMENT WHOSE EXISTING CIRCUIT BREAKER MATCHES THE MOCF OF THE NEW UNIT SHALL BE PROVIDED WITH A NON-FUSED DISCONNECT. IF THE EXISTING CIRCUIT BREAKER EXCEEDS THE MOCF, A FUSED DISCONNECT SHALL BE PROVIDED.

FILE NO: 19-91

A/E: 03-122718

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

MARK	DESCRIPTION	LOCATION	VOLTAGE	PHASE	MCA	DISCONNECT	MOCF	FEEDER	PANEL	CIRCUIT	REMARKS
RTU-M6	PACKAGED A/C UNIT	BLDG E ROOF	208	3	27.0	30A/240VAC/3P	30	3/4" - 3#10 & 1#10 G	EXISTING	EXISTING	1 2 3
RTU-M7	PACKAGED A/C UNIT	BLDG E ROOF	208	3	27.0	30A/240VAC/3P	30	3/4" - 3#10 & 1#10 G	EXISTING	EXISTING	1 2 3
RTU-M8	PACKAGED A/C UNIT	BLDG E ROOF	208	3	27.0	30A/240VAC/3P	30	3/4" - 3#10 & 1#10 G	EXISTING	EXISTING	1 2 3
RTU-M9	PACKAGED A/C UNIT	BLDG E ROOF	208	3	27.0	30A/240VAC/3P	30	3/4" - 3#10 & 1#10 G	EXISTING	EXISTING	1 2 3
RTU-M10	PACKAGED A/C UNIT	BLDG F ROOF	208	3	27.0	60A/240VAC/3P	45	1"C - 3#8 & 1#10 G	"LF"	1, 3, 5	1
RTU-M11	PACKAGED A/C UNIT	BLDG F ROOF	208	3	27.0	30A/240VAC/3P	30	3/4" - 3#10 & 1#10 G	"LF"	2, 4, 6	1 2
RTU-M12	PACKAGED A/C UNIT	BLDG F ROOF	208	3	27.0	30A/240VAC/3P	30	3/4" - 3#10 & 1#10 G	"LF"	7, 9, 11	1 2
RTU-ML	PACKAGED A/C UNIT	BLDG C ROOF	208	1	35.0	60A/240VAC/2P	50	1"C - 3#4 & 1#10 G	"P"	1, 3	1
RTU-M26	HEAT PUMP	BLDG J ROOF	208	1	33.0	60A/240VAC/2P	50	1"C - 2#4 & 1#10 G	"JA"	7, 9	1
RTU-M27	HEAT PUMP	BLDG K ROOF	208	1	33.0	60A/240VAC/2P	50	3/4" - 2#10 & 1#10 G	"KA"	5, 7	1

- PROVIDE FUSED DISCONNECT FOR UNIT IN NEMA-3R ENCLOSURE. FUSED SIZED PER MOCF.
- UNIT SHALL BE SERVED FROM EXISTING CIRCUIT. EXTEND EXISTING FEEDER AS REQUIRED FOR NEW CONNECTION TO DISCONNECT AND UNIT.
- CONTRACTOR SHALL VERIFY EXISTING SOURCE OF POWER AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PERFORMING ANY WORK.

(E) PANEL: "EE"											
LOCATION: BUILDING F				VOLTAGE/PHASE: 208Y/120V, 3Ø, 4W				FED FROM:			
FLOOR: FIRST				BUS AMPS: 100A				RATING: 10,000 AIC			
MOUNTING: SURFACE				MAIN BREAKER: 100A							
LOADS	SEE NOTE	* OUTLETS LTG/RECMISC	VOLT-AMPS A B C	BKRV POLE A B C	BKRV POLE A B C	VOLT-AMPS A B C	OUTLETS LTG/RECMISC	* SEE NOTE	LOADS		
(E) LOAD			360	1	20/1 *- -	20/3	2	500			(E) TVSS
(E) LOAD			360	3	20/1 *- -	--	4	500			--
(E) LOAD			360	5	20/1 *- -	--	6	500			--
(E) LOAD			360	7	20/1 *- -	20/1	8	360			(E) LOAD
(E) LOAD			360	9	20/1 *- -	20/1	10	360			(E) LOAD
SPACE			360	11	--	20/1	12	360			(E) LOAD
(E) LOAD			360	13	20/1 *- -	20/1	14	360			(E) LOAD
(E) LOAD			360	15	20/1 *- -	--	16				SPACE
(E) LOAD			360	17	20/1 *- -	--	18				SPACE
(E) LOAD			360	19	20/1 *- -	20/1	20	360			(E) LOAD
SPACE			360	21	20/1 *- -	20/1	22	360			(E) LOAD
SPACE			360	23	20/1 *- -	20/1	24	360			(E) LOAD
SPACE			360	25	20/1 *- -	20/1	26	360			(E) LOAD
ROOF RECEPTACLES	1		720	27	20/1	100/3	28				(E) MAIN
SPACE				29	--	--	30				--
SPACE				31	--	--	32				--
SPACE				33	--	--	34				SPACE
SPACE				35	--	--	36				SPACE
SPACE				37	--	--	38				SPACE
SPACE				39	--	--	40				SPACE
SPACE				41	--	--	42				SPACE
NOTES: * "L" DENOTES LONG CONTINUOUS LOAD 1. REUSE EXISTING CIRCUIT BREAKER TO SERVE LOAD.											
TOTAL ØA = 3,740 VOLT-AMPS			31.17 AMPS								
TOTAL ØB = 3,380 VOLT-AMPS			28.17 AMPS								
TOTAL ØC = 2,660 VOLT-AMPS			22.17 AMPS								
TOTAL PANEL = 9,780 VA @ 208V, 3Ø 27 AMPS											

(E) PANEL: "P"											
LOCATION : BUILDING C				VOLTAGE/PHASE : 240/120V, 1Ø, 3W				FED FROM :			
FLOOR : FIRST				BUS AMPS : 225A				RATING: 10,000 AIC			
MOUNTING : SURFACE				MAIN BREAKER : 225A							
LOADS		SEE NOTE	* OUTLETS LTG/RECMISC	VOLT-AMPS A B C		BKRV POLE A B C	BKRV POLE A B C	VOLT-AMPS A B C		OUTLETS LTG/RECMISC	* SEE NOTE
RTU-ML		1		4,920		1	60/2	-	30/2	2	
--					4,920	3	--	--	--	4	
SPACE						5	20/2	--	--	6	
SPACE						7	--	--	--	8	
(E) HP-M1				3,850		9	45/2	--	--	10	
--					3,850	11	--	--	--	12	
ROOF TOP RECEPTACLES		1		360		13	20/1	--	--	14	
SPACE						15	--	--	--	16	
SPACE						17	--	--	--	18	
SPACE						19	--	--	--	20	
SPACE						21	--	--	--	22	
SPACE						23	--	--	--	24	
SPACE						25	--	--	--	26	
SPACE						27	--	--	--	28	
SPACE						29	--	--	--	30	
SPACE						31	--	--	--	32	
SPACE						33	--	--	--	34	
SPACE						35	--	--	--	36	
SPACE						37	--	--	--	38	
SPACE						39	--	--	--	40	
SPACE						41	--	--	--	42	
NOTES: * "L" DENOTES LONG CONTINUOUS LOAD 1. PROVIDE CIRCUIT BREAKER TO MATCH EXISTING MANUFACTURER AND RATINGS TO SERVE LOAD.											
TOTAL ØA = 9,130 VOLT-AMPS				76.08 AMPS							
TOTAL ØB = 8,770 VOLT-AMPS				73.08 AMPS							
TOTAL PANEL = 17,900 VA @ 240V, 1Ø 75 AMPS											

(E) PANEL: "LF"													
LOCATION : BUILDING F				VOLTAGE/PHASE : 208Y/120V, 3Ø, 4W				FED FROM :					
FLOOR : FIRST				BUS AMPS : 225A				RATING: 10,000 AIC					
MOUNTING : SURFACE				MAIN BREAKER : 150A									
LOADS	SEE NOTE	* OUTLETS LTG/RECMISC	VOLT-AMPS			BKRV POLE A	BKRV POLE B	VOLT-AMPS			OUTLETS LTG/RECMISC	* SEE NOTE	LOADS
			A	B	C	CKT	POLE	A	B	C			
RTU-M10	2		3,242			1	45/3	-	-	30/3	2	3,242	RTU-M11
--				3,242		3	--	-	-	--	4		--
--					3,242	5	--	-	-	--	6	3,242	--
RTU-M12	1		3,242			7	30/3	-	-	30/3	8	3,002	(E) RTU-M13
--				3,242		9	--	-	-	--	10	3,002	--
--					3,242	11	--	-	-	--	12	3,002	--
(E) LOAD						13	20/1	-	-	20/1	14		(E) LOAD
(E) LOAD						15	20/1	-	-	20/1	16		(E) LOAD
(E) LOAD						17	20/1	-	-	20/1	18		(E) LOAD
(E) LOAD						19	20/1	-	-	20/1	20		(E) LOAD
(E) LOAD						21	20/1	-	-	20/1	22		(E) LOAD
(E) LOAD						23	20/1	-	-	20/1	24		(E) LOAD
ROOF TOP RECEPTACLE	2		180			25	20/1	-	-	20/1	26		SPACE
SPACE						27	--	-	-	--	28		SPACE
SPACE						29	--	-	-	--	30		SPACE
NOTES:													
* "L" DENOTES LONG CONTINUOUS LOAD													
1. REUSE EXISTING CIRCUIT BREAKER TO SERVE UNIT.													
2. PROVIDE CIRCUIT BREAKER TO MATCH EXISTING MANUFACTURER AND RATINGS TO SERVE LOAD.													
TOTAL ØA = 12,908 VOLT-AMPS			107.6 AMPS										
TOTAL ØB = 12,728 VOLT-AMPS			106.1 AMPS										
TOTAL ØC = 12,728 VOLT-AMPS			106.1 AMPS										
TOTAL PANEL = 38,364 VA @ 208V, 3Ø 106 AMPS													

(E) PANEL: "KA"

LOCATION: BUILDING C

FLOOR: FIRST

MOUNTING: SURFACE

VOLTAGE/PHASE: 240/120V, 1Ø, 3W

BUS AMPS: 225A

MAIN BREAKER: 225A

FED FROM:

RATING: 10,000 AIC

LOADS	SEE NOTE	* OUTLETS LTG/RECMISC	VOLT-AMPS			BKRV POLE	BKRV POLE	VOLT-AMPS/OUTLETS			SEE NOTE	LOADS	
			A	B	C			A	B	C			LTG/RECMISC
(E) LOAD			360			1	20/1	* -	20/1	2	360		(E) LOAD
(E) LOAD				360	3	20/1	* -	20/1	4		360		(E) LOAD
RTU-M27	1				5	50/2	* -	20/1	6	360		(E) LOAD	
--					7	--	* -	20/1	8		360		(E) LOAD
(E) LOAD				360	9	20/1	* -	20/1	10	360		(E) LOAD	
(E) PANEL "EKA"				5,000	11	50/2	* -	20/1	12		180	1	ROOF RECEPTACLE
--				5,000	13	--	* -	--	14				SPACE
SPACE					15	--	* -	--	16				SPACE
SPACE					17	--	* -	--	18				SPACE
SPACE					19	--	* -	--	20				SPACE
SPACE					21	--	* -	--	22				SPACE
SPACE					23	--	* -	--	24				SPACE
SPACE					25	--	* -	--	26				SPACE
SPACE					27	--	* -	--	28				SPACE
SPACE					29	--	* -	--	30				SPACE
SPACE					31	--	* -	--	32				SPACE
SPACE					33	--	* -	--	34				SPACE
SPACE					35	--	* -	--	36				SPACE
SPACE					37	--	* -	--	38				SPACE
SPACE					39	--	* -	--	40				SPACE
SPACE					41	--	* -	--	42				SPACE

TOTAL OA = 6,800 VOLT-AMPS

TOTAL OB = 6,260 VOLT-AMPS

56.67 AMPS

52.17 AMPS

NOTES:

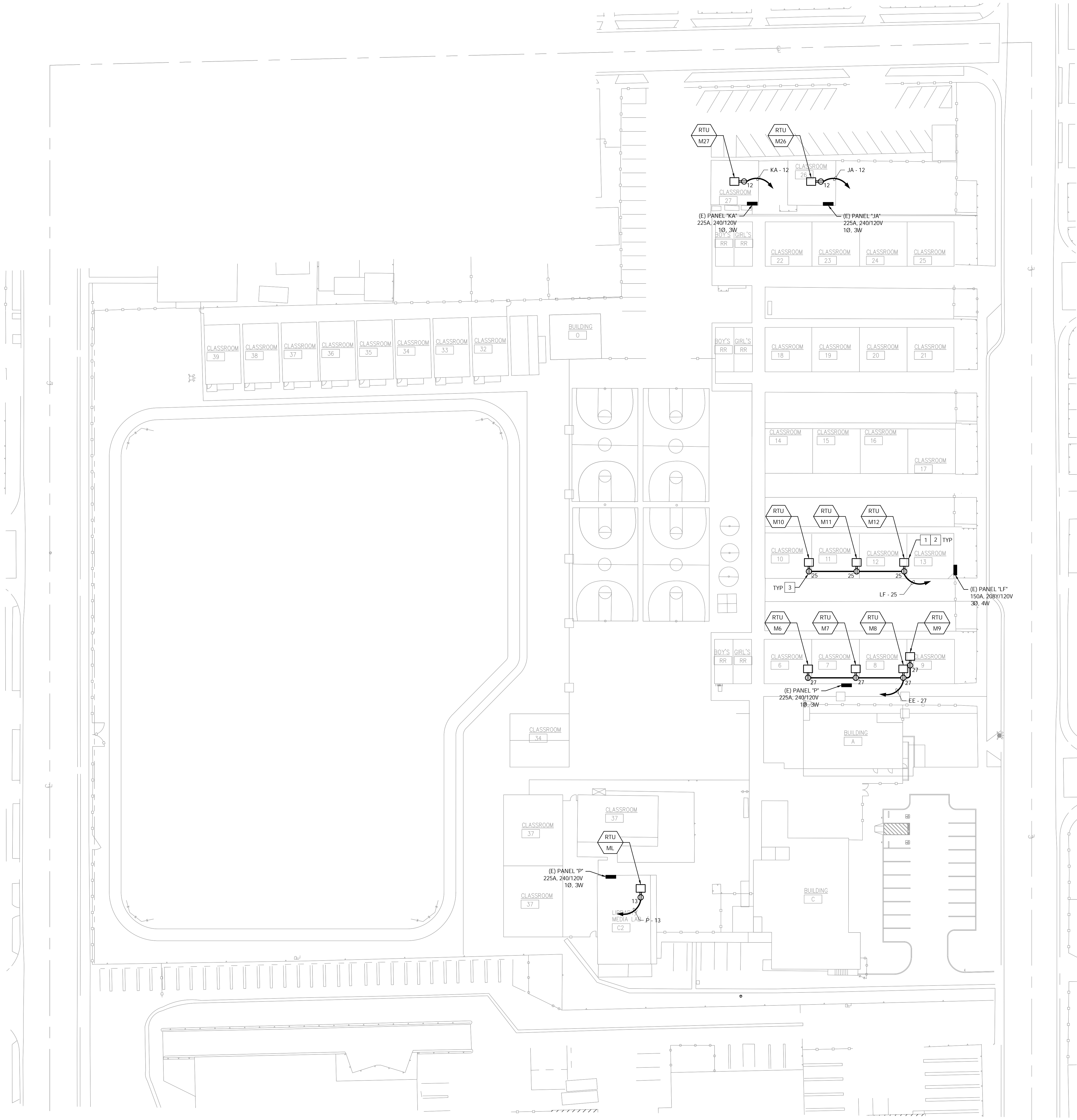
* 12 DENOTES LONG CONTINUOUS LOAD

1. PROVIDE CIRCUIT BREAKER TO MATCH EXISTING MANUF.

AND RATINGS TO SERVE LOAD.

TOTAL PANEL = 13,060 VA @ 240V, 1Ø

54 AMPS

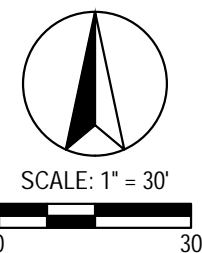


GENERAL NOTES

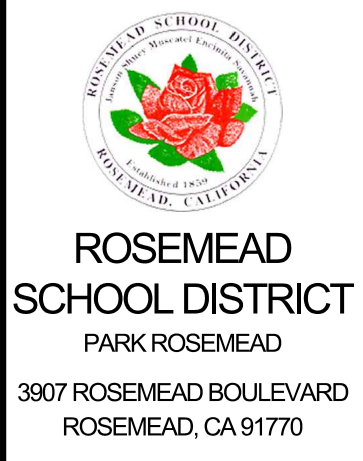
1. REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULES AND PANEL SCHEDULES FOR ADDITIONAL CIRCUIT INFORMATION.
2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL EQUIPMENT INFORMATION.
3. REFER TO SHEET E601 FOR INSTALLATION DETAILS. CONDUIT SHALL BE ROUTED ON CANOPIES AND ROOFS TO SERVE UNITS AS REQUIRED.
4. CARBON MONOXIDE DETECTION SYSTEM IS NOT REQUIRED UNDER CECB 503.15.1 EXCEPTIONS 1 AND 2. SCOPE INCLUDES REPLACEMENT OF EXISTING FUEL-BURNING UNITS ALREADY PRESENT AND THE GROUP E BUILDING WAS CONSTRUCTED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.

NOTES

1. DISCONNECT EXISTING HVAC UNIT AND DISCONNECT SWITCH.
2. PROVIDE CONNECTION TO NEW HVAC UNIT. PROVIDE NEW DISCONNECT SWITCH. REFER TO PANEL SCHEDULES AND EQUIPMENT CONNECTION SCHEDULES FOR MORE INFORMATION.
3. PROVIDE 120V/20A WEATHERPROOF GFCI DUPLEX RECEPTACLE AT UNIT.



ROSEMEAD SCHOOL DISTRICT
RSD - MUSCATEL MIDDLE SCHOOL
HVAC REPLACEMENT AT BUILDINGS C,E,F,J AND K



ROSEMEAD SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

JUBANY
NAC ARCHITECTURE

NAC NO	161-21043
FILE	
DRAWN	MT
CHECKED	AS
DATE	10-06-2022

ELECTRICAL SITE PLAN -
MUSCATEL

E101

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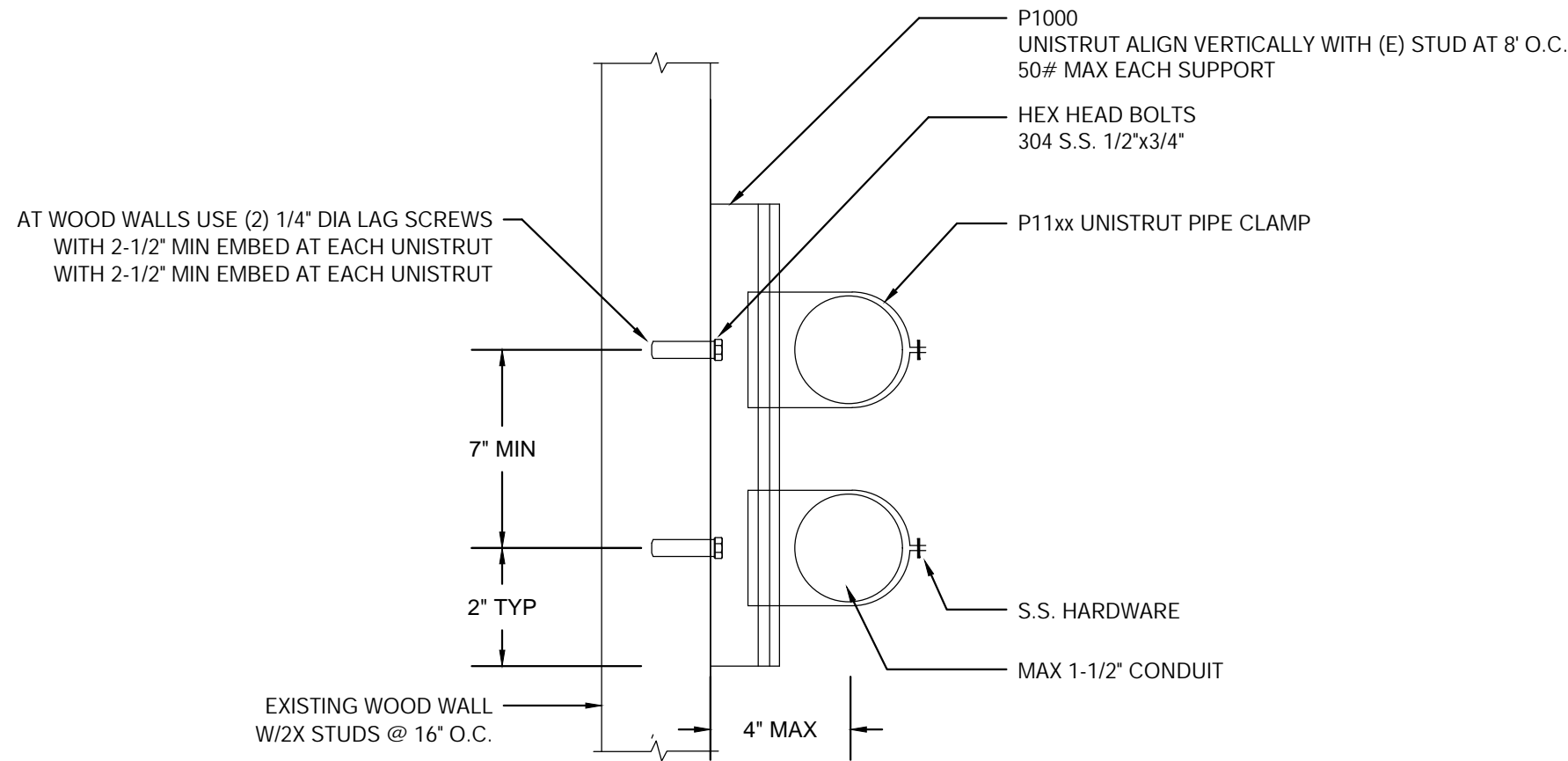
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3 CONDUIT WALL SUPPORT

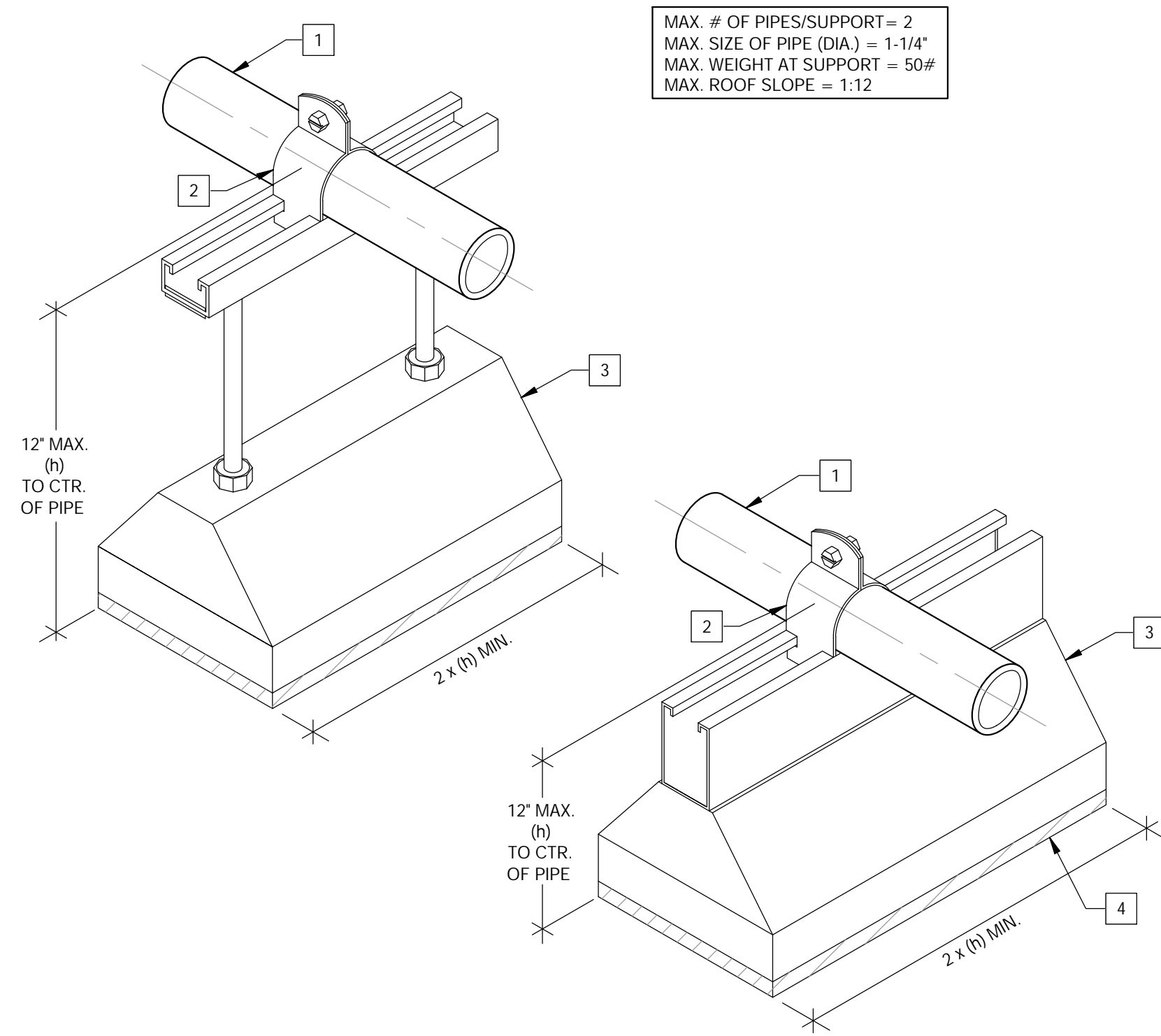
NO SCALE

GENERAL NOTE

- REFER TO SPECIFICATION FOR PIPE SUPPORT SPACING.
- CONDENSATE DRAIN PIPING SHALL SLOPE AT MINIMUM 1%.

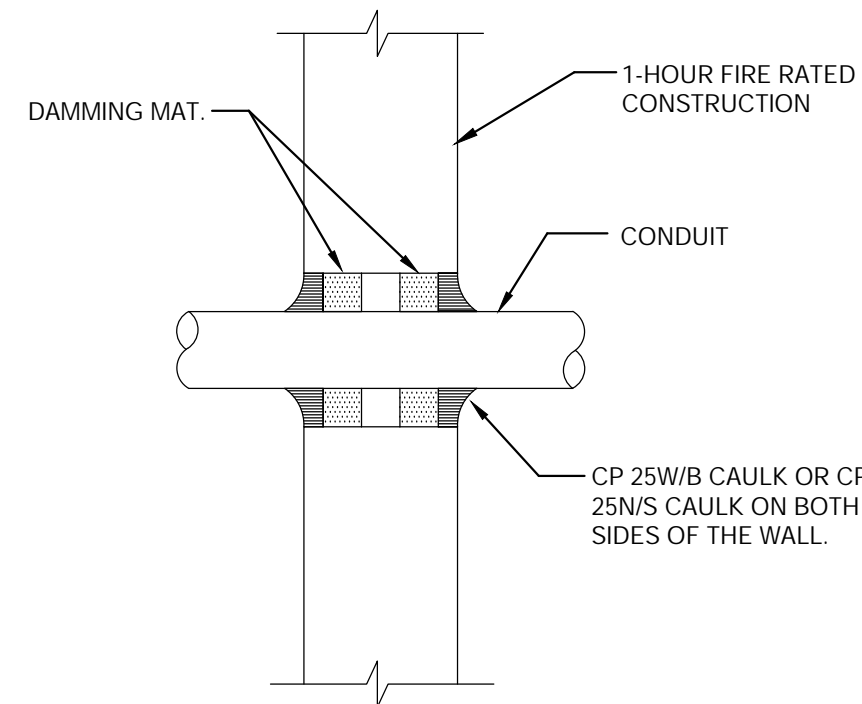
DETAIL NOTES

- PIPE AT ROOF - REFER TO SPECIFICATIONS FOR PIPE MATERIAL.
- PIPE CLAMP - UNISTRUT P1113
- B-LINE C-PORT SERIES PIPE SUPPORT SYSTEM OR EQUAL.
- SET ON MASTIC OR RUBBER PADDING AT PVC ROOF CONSTRUCTION AREAS - TYPICAL.



2 CONDUIT ROOF SUPPORT

NO SCALE



NOTES

- THIS IS UL STD #49 FOR CONCRETE WALLS OR UL SYSTEM #147 FOR 1HR. GYPSUM BOARD WALL.
- THE MAXIMUM ANNULAR SPACE TO BE FILLED IS 2". THE MINIMUM ANNULAR SPACE IS 3/4".
- FOR SOLID CONCRETE WALLS, THE CP 25 CAULK MAY BE CENTERED IN THE WALL WITH DAMMING MATERIAL ON BOTH SIDES OF THE CAULK.
- USE CP 25(SELF SEVELING) CAULK ON HORIZONTAL SURFACES WHEN SEALING OPENING FROM ABOVE THE PENETRATION. USE CP25N (NO SAG) CAULK ON VERTICAL SURFACES AND ON HORIZONTAL SURFACES WHEN SEALING OPENINGS FROM BELOW. USE CP 25WB CAULK ON EITHER APPLICATION.
- SHRINKAGE OF CP 25 CAULKS IS ACCEPTABLE AFTER INITIAL WET DEPTH INSTALLATION.
- THE DEPTH OF THE CP 25 CAULKS DEPENDS ON THE INSULATION THICKNESS.

CAULK DEPTH (MIN.)	INSULATION
1"	1" THICK
2"	2-3" THICK

1 CONDUIT PENETRATION

NO SCALE

NAC NO	161-21043
FILE	
DRAWN	MT
CHECKED	AS
DATE	10-06-2022

DETAILS

E601



ROSEMEAD
SCHOOL DISTRICT
PARK ROSEMEAD
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CA 91770

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