MILLER MIDDLE SCHOOL WALK-IN COOLER AND FREEZER INSTALLATION

MILLER MIDDLE SCHOOL
6151 RAINBOW DR., SAN JOSE, CA 95129

GENERAL NOTES

1. THESE DOCUMENTS ARE THE PROPERTY OF SIM AND ARE NOT TO BE USED FOR ANY OTHER THAN THE LOCATION SHOWN HEREON. NO CHANGES ARE TO BE MADE ON THESE DOCUMENTS WITHOUT THE KNOWLEDGE OR CONSENT OF THE ARCHITECT OR ENGINEER WHOSE SIGNATURE APPEARS HEREON.
2. WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE AS ADOPTED BY THE COUNTY OF SANTA CLARA, CALIFORNIA AND ALL OTHER GOVERNING AUTHORITIES HAVING JURISDICATION.
3. REQUEST ASBESTOS INFORMATION REGARDING THIS PROJECT TO THE HUSD PRIOR TO BID. THE CONTRACTOR IS ADVISED THAT, PART OF THE DEMOLITION WORK REQUIRED FOR THIS PROJECT, MAY INCLUDE ASBESTOS CONTAINING MATERIALS WHICH MUST BE REMOVED/DEMOLISHED ACCORDING TO THE ASBESTOS REMOVAL AND DISPOSAL PROCEDURES.
4. THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK, IF SITE CONDITIONS ARE FOUND TO BE DIFFERENT FROM THE DRAWINGS. PROTECT ALL UTILITY LINES DURING CONSTRUCTION. IF DISCONNECTION IS REQUIRED COORDINATE WITH THE ARCHITECT PRIOR TO WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTION FOR A FULLY OPERATIONAL SYSTEM.
5. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION WHEN PERFORMING THEIR WORK TO PREVENT DAMAGE TO EXISTING MATERIALS AND SURFACES DURING CONSTRUCTION. ALL DAMAGE TO BE REPAIRED BY THE INDIVIDUAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR WILL CLEAN UP PAINT OVERSPRAY, DRIPS ETC.
6. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISH, (U.O.N.). DO NOT SCALE FROM DRAWINGS, FIGURED DIMENSIONS GOVERN OVER NOMINAL DIMENSIONS.
7. ALL HEIGHTS ARE DIMENSIONED FROM FINISHED FLOOR, (U.O.N.)
8. "TYPICAL" OR "TYP." SHALL INDICATE STANDARD FOR OTHER LIKE CONDITIONS THROUGHOUT THE WORK.
9. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN AND/OR ELEVATIONS.
10. ALL WORK IS TO BE DONE IN SUCH A WAY AS NOT TO DISRUPT THE BUILDING'S NORMAL BUSINESS OPERATIONS. DISRUPTIVE WORK IS TO BE COORDINATED WITH THE OWNER AND/OR THE OWNER.
11. ALL MATERIALS ARE TO BE NEW, UNUSED, AND OF THE HIGHEST QUALITY. ALL WORK SHALL BE PERFORMED IN A THOROUGH, PROFESSIONAL MANNER. ALL WORK TO BE EQUAL TO THE BEST STANDARDS OF PRACTICE.
12. MATERIALS ARE SPECIFIED BY BRAND NAMES TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ANY REQUEST FOR SUBSTITUTION SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT. MATERIALS SHALL NOT BE PURCHASED OR INSTALLED WITHOUT THE ARCHITECT'S WRITTEN APPROVAL.
13. NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS WILL BE ACCEPTABLE DESPITE THE ARCHITECT'S FAILURE TO DISCOVER SUCH DEFECTS. ALL DEFECTIVE WORK DISCOVERED WITHIN THE TIME REQUIRED BY GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH THE INTENT OF THE CONTRACT. NO PAYMENT EITHER PARTIAL OR FINAL SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
14. IT IS INTENDED THAT THE CONTRACTOR PROVIDE A COMPLETE JOB AND ANY OMISSIONS IN THESE NOTES OR IN THE OUTLINE OF WORK SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR OF SUCH RESPONSIBILITIES IMPLIED BY THE SCOPE OF THEIR WORK EXCEPT FOR ITEMS SPECIFICALLY NOTED.
15. SHOULD ANY PORTION OF THE CONTRACT DOCUMENTS PROVE TO BE UNENFORCEABLE, SUCH UNENFORCEABILITY SHALL NOT EXTEND TO THE REMAINDER OF THE CONTRACT NOR SHALL IT VOID ANY OTHER PROVISIONS OF THE CONTRACT.
16. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING, ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE. FAILURE TO OBTAIN AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.
17. UPON COMPLETION OF THE WORK OR SHORTLY BEFORE, OWNER'S REPRESENTATIVE SHALL PREPARE A "PUNCH-LIST" IN WALK-THROUGHS WITH THE CONTRACTOR. FINAL PAYMENT WILL BE CONTINGENT UPON THE COMPLETION OF THESE ITEMS TO BE CORRECTED, COMPLETED OR UNSATISFACTORILY COMPLETED FOLLOWING FINAL PAYMENT SHALL NOT NEGATE NOR DIMINISH THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE OR REPAIR THESE ITEMS AS SOON AS POSSIBLE.
18. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL PURCHASE AND MAINTAIN CERTIFICATIONS OF INSURANCE WITH RESPECT TO WORKER'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE LIMITS AS REQUIRED BY THE BUILDING OWNER AND OR LAW WHICHEVER IS MOST STRINGENT. THE CONTRACTOR SHALL BE RESPONSIBLE OF INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.
19. CONTRACTOR SHALL, AT ALL TIMES DURING THE COURSE OF THE WORK, KEEP THE CONSTRUCTION AREA, THE OWNER'S PREMISES, INCLUDING STREETS AND OTHER AREAS USED BY THE CONTRACTOR, CLEAN AND FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH. CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES AS REQUIRED. AT THE COMPLETION OF THE WORK, REMOVE FROM THE BUILDING AND THE PREMISES ALL SURPLUS MATERIALS AND DEBRIS, AND CLEAN THE SITE THOROUGHLY TO THE SATISFACTION OF THE OWNER.
20. FACILITIES HANDLING, STORING, SELLING, AND USING HAZARDOUS, COMBUSTIBLE, OR FLAMMABLE MATERIALS SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE CALIFORNIA FIRE CODE.
21. THE ARCHITECT IS NOT RESPONSIBLE FOR ANY WORK RELATED TO THE IDENTIFYING AND REMOVAL OF HAZARDOUS MATERIALS FROM THE PROJECT SITE. ANY DRAWING OR INFORMATION RELATING TO HAZARDOUS MATERIALS INCLUDED IN THIS DRAWING SET IS FOR REFERENCE PURPOSES ONLY. IN THE EVENT THAT HAZARDOUS MATERIALS ARE SUSPECTED OR DISCOVER DURING THE WORK, THE CONTRACTOR WILL STOP WORK IN THE AREA, NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE, AND NOT RESUME WORK UNTIL INSTRUCTED TO DO SO.
22. EXISTING CONSTRUCTION INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM THE OWNER'S ORIGINAL CONSTRUCTION AS-BUILT DRAWINGS. THESE ORIGINAL CONSTRUCTION DRAWINGS ARE AVAILABLE AT THE ARCHITECT'S OFFICE FOR REVIEW. THE ORIGINAL CONSTRUCTION DRAWINGS ARE NOT A PART OF THE CONSTRUCTION DOCUMENTS AND DO NOT WARRANT EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ALL EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.
23. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, UTILITIES AND OTHER SERVICES AND RELATED TASKS NECESSARY FOR THE EXECUTION OF THE CONSTRUCTION AS REQUIRED BY THE CONTRACT DOCUMENTS.
24. INCIDENTAL WORK IS PART OF THIS CONTRACT. INCIDENTAL WORK SHALL BE DEFINED AS WORK NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS THAT MAY BE NECESSARY TO MATCH THE WORK TO EXISTING ELEMENTS.
25. DISCOVERY OF DETERIORATING AND NON-CONFORMING CONDITIONS WILL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CORRECTIVE WORK WILL BE PERFORMED AS DIRECTED BY THE ARCHITECT AND APPROVED BY THE DISTRICT
26. GENERAL NOTES SHALL APPLY TO THE ENTIRE WORK UNDER THIS CONTRACT.
27. SHEET NOTES APPLY TO THE DRAWING SHEET ON WHICH THEY OCCUR. IN CONFLICTS BETWEEN THE SHEET NOTES AND THE GENERAL NOTES, SHEET NOTES SHALL GOVERN. KEY NOTES REFER DRAWN ITEMS TO THE SPECIFICATIONS.
28. IN THE EVENT THAT THERE IS DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN THE SPECIFICATIONS, THE MOST EXPENSIVE MATERIAL AND/OR INSTALLATION SHALL BE THE BASIS OF THE BID, AND THEREFORE SHALL SUPERCEDE ANY INFERIOR MATERIAL IN TERMS OF QUALITY OR MONETARY VALUE.
29. FASTENING AND NAILING OF WOOD MEMBERS SHALL BE IN ACCORDANCE WITH THE NAILING SCHEDULE FOUND IN CALIFORNIA BUILDING CODE (CBC) SECTION 2304.10.2.
30. ALL CONSTRUCTION WORK: ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC. SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL CODES, RULES, AND REGULATIONS GOVERNING CONSTRUCTION AND THE USEOF FACILITIES AS SET BY FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
31. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK AS REQUIRED TO PREPARE THE SPACE FOR NEW CONSTRUCTION. DEMOLITION SHALL BE PERFORMED IN A SAFE, ORDERLY MANNER WITHOUT DAMAGE TO OTHER PARTS OF THE PREMISES AND ADJACENT PROPERTIES. ANY RESULTING DAMAGE OR LOSS SHALL BE CORRECTED REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. ALL DEMOLISHED/REMOVED ITEMS SHALL BE DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER. VERIFY WITH THE OWNER ON ITEMS TO BE SAVED AND STORED. ALL REMOVED ITEMS TO BE SAVED FOR REUSE SHALL BE HANDLED WITH CARE. CUT ALL DEMOLITION TO A STRAIGHT LINE AT EXISTING CONDITION. PROTRUDING OBJECTS ON ALL SURFACES SHALL BE REMOVED, AND THE AREA FILLED AND REPAIRED.
32. COORDINATION:
    A. THE CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON THE CONSULTANT'S DRAWINGS WITH THOSE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING THE WORK.
    B. IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN.
    C. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INCLUDING ELECTRICAL, MECHANICAL, TELEPHONE, SECURITY REQUIREMENTS, AND ETC. BEFORE CONSTRUCTION BEGINS.
    D. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL LIGHTS, AIR OUTLET AND INLET REGISTERS, SMOKE DETECTORS, ET. AL., BEFORE CONSTRUCTION BEGINS.
33. USE HAND TOOLS TO REMOVE SOIL, PAVING AND OTHER CONSTRUCTION WITHIN 15 INCHES OF EXISTING BUILDING.
34. CLEAN SURFACES REMAINING EXPOSED AFTER DEMOLITION WORK TO MATCH EXISTING ADJACENT SURFACES OR PREPARE FOR NEW WORK.
35. THE INFORMATION SHOWN ON THE ABOVE-MENTIONED SHEETS HAS BEEN COMPILED FROM VARIOUS SOURCES AND MAY NOT BE REFLECTIVE OF THE ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION.THE CONTRACTOR IS REQUIRED TO MAKE ALL NECESSARY INVESTIGATIONS TO BECOME FAMILIAR WITH THE FACILITY PRIOR TO BID SUBMISSION. UNFAMILIARITY WITH THE SITE CONDITIONS WILL NOT BE ACCEPTED AS A BASIS FOR ADDITIONAL CONTRACTOR COMPENSATION.
36. DISCREPANCIES NOTED BY THE CONTRACTOR IN THE DRAWINGS OR SPECIFICATIONS MUST BE BROUGHT TO THE DISTRICT'S ATTENTION PRIOR TO BID SUBMISSION.
37. ALL COMPONENTS NOTED ON THE DETAIL DRAWINGS ARE TO BE NEW AND PROVIDED WITHIN THIS CONTRACT UNLESS SPECIFICALLY IDENTIFIED AS EXISTING.
38. WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS APPLICABLE TO THE PROJECT.
39. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC CHAPTER 33 AND CFC CHAPTER 33.
40. ALL SURFACES OF NEW CONSTRUCTION SHOULD BE PAINTED OR APPLIED FINISH MATERIALS PER DESIGN DOCUMENT OR ARCHITECT'S INSTRUCTION, UON.
41. THE CONTRACTOR SHALL VERIFY SITE CONDITION AND FEASIBILITY OF INSTALLATION BEFORE PROCURING PRODUCTS. SUMITTALS ARE REQUIRED FOR THE DOOR AND GATES.
42. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
43. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
44. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
45. 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, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (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. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
46. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

CODES & REGULATIONS

USE THE FOLLOWING CODES AND REGULATIONS WITH THE LATEST AMENDMENTS & SUPPLEMENTS:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR VOLUME 1 AND 2
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCE STANDARDS CODE (CRSC), PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

NATIONAL STANDARDS:

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS; 2022 EDITION
NFPA 14	STANDPIPE SYSTEMS; 2019 EDITION
NFPA 24	PRIVATE FIRE MAINS; 2019 EDITION
NFPA 25	PROTECTION SYSTEMS; 2020 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE; 2022 EDITION
NFPA 110	EMERGENCY AND STANDBY POWER SYSTEMS; 2019 EDITION

DEFERRED SUBMITTAL: NONE

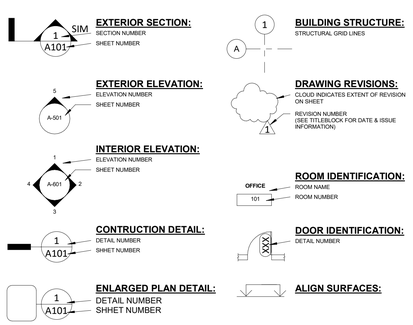
VICINITY MAP

PROJECT LOCATION



TN
PN

SYMBOLS



PROJECT SUMMARY

SCOPE OF WORK INCLUDES BUT NOT LIMITED TO:

A. PREP SITE FOR INSTALLATION OF NEW WALK-IN COOLER AND FREEZER.
B. DEMO (E) WOOD FENCING AND PREP SITE FOR NEW FENCE
C. INSTALLATION OF CHAIN LINK FENCING/ GATES ENCLOSURE AROUND COOLER AND FREEZER
D. INCREASE (E) FOOTPRINT OF (E) SLAB WITH NEW SLAB TO ACCOMMODATE COOLER AND FREEZER
E. PROVIDE (N) EXIT DOOR IN (E) BUILDING 100

ABBREVIATIONS

&	AND	E.J.	EXPANSION JOINT	N.I.C.	NOT IN CONTRACT
<	ANGLE	ELEC	ELECTRICAL	N.T.S.	NOT TO SCALE
@	AT	EMER	EMERGENCY	O.C.	ON CENTER
℄	CENTERLINE	ENCL	ENCLOSURE	O.D.	OUTSIDE DIAMETER
#	NUMBER	EQ	EQUAL	OPNG	OPENING
(E)	EXISTING	EQPT	EQUIPMENT	OPP	OPPOSITE
(N)	NEW	EXPO	EXPOSED	PLYWD	PLYWOOD
AC	ASPHALT CONCRETE	EXP	EXPANSION	PR	PAIR
ACCS.	ACCESSIBLE	EXT	(E) EXTERIOR	R	RISER
ACP	ACOUSTIC CEILING PANEL	F.A.	FIRE ALARM	RAD	RADIUS
ADJ.	ADJUSTABLE	F.E.	FIRE EXTINGUISHER	R.D.	ROOF DRAIN
A.F.F.	ABOVE FINISH FLOOR	F.E.C.	FIRE EXTINGUISHER CABINET	REF	REFERENCE
AL.	ALUMINUM	F.F.	FACTORY FINISH	REINF	REINFORCED
APPROX.	APPROXIMATE	FH	FIRE HYDRANT	REQ	REQUIRED
ARCH.	ARCHITECTURAL	FLASH	FLASHING	RM	ROOM
BD.	BOARD	FLUOR	FLUORESCENT	RR	RESTROOM
BLDG.	BUILDING	F.O.C.	FACE OF CONCRETE	RWD	REDWOOD
BLK.	BLOCKING	F.O.F.	FACE OF FINISH	R.W.L.	RAIN WATER LEADER
BM.	BEAM	F.O.S.	FACE OF STUDS	SAD	SEE ARCHITECTURAL DRAWINGS
BOT.	BOTTOM	FPRF	FIREPROOF	SED	SEE ELECTRICAL DRAWINGS
CBC	CALIFORNIA BUILDING CODE	FS.	FULL SIZE	SCD	SEE CIVIL DRAWINGS
CCR	CALIFORNIA CODE OF REGULATIONS	FT	FOOT OR FEET	SSD	SEE STRUCTURAL DRAWINGS
CEM	CEMENT	FTG	FOOTING	SMD	SEE MECHANICAL DRAWINGS
C.L.	CHAIN LINK	GA	GAUGE	SPD	SEE PLUMBING DRAWINGS
CLR	CLEAR	GALV	GALVINIZED	SHT	SHEET
COL	COLUMN	G.B.	GRAB BAR	S.C.	SHEET METAL
CONC	CONCRETE	GL	GLASS	SIM	SIMILAR
CONN	CONNECTION	GND	GROUND	STRL	STRUCTURAL
CONT	CONTINUOUS	GYP	GYPSUM	TRD	TREAD
CORR	CORRIDOR	H.B.	HOSE BIB	TOC	TOP OF CURB
CTR	CENTER	HDWD	HARDWOOD	T&G	TONGUE & GROOVE
DBL	DOUBLE	HDWR	HARDWARE	THK	THICK
DEPT	DEPARTMENT	HORIZ	HORIZONTAL	TYP	TYPICAL
DF	DRINKING FOUNTAIN	HM	HOLLOW METAL	UNF	UNFINISHED
DET	DETAIL	HR	HOUR	U.O.N.	UNLESS OTHERWISE NOTED
DIA	DIAMETER	MAX	MAXIMUM	VERT	VERTICAL
DIM	DIMENSION	MEMB	MEMBRANE	VIF	VERIFY IN FIELD
DN	DOWN	MTL	METAL	W/	WITH
DR	DOOR	MANUF.	MANUFACTURER	WD	WOOD
DS	DOWNSPOUT	MIN	MINIMUM	W/O	WITHOUT
DWG	DRAWING	MISC	MISCELLANEOUS	WP	WATERPROOF
EA	EACH	MTD	MOUNTED		

PROJECT TEAM

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SHEET INDEX

GENERAL
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C-1.1 UTILITY PLAN
C-2 SECTIONS AND DETAILS

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A0.2 ACCESSIBILITY SITE PLAN
A1.1 ENLARGED PLANS & ELEVATIONS
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STRUCTURAL
S0.1 GENERAL NOTES AND DETAILS
S1.0 PLANS

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OUTDOOR COOLER
S1 MILLER MS CUPERTINO USD - OUTDOOR FREEZER - PLANS
S2 MILLER MS CUPERTINO USD - OUTDOOR FREEZER - PANEL ANCHOR & SUPPORT DETAILS

Total Sheets:: 18

STATEMENT OF GENERAL CONFORMANCE

THE DRAWING SHEETS LISTED IN THE SHEET INDEX OTHER THAN THE G AND A SHEETS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE OF CALIFORNIA. I HAVE EXAMINED THE DRAWINGS FOR:

(1) DESIGN INTENT AND THEY APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY MYSELF, AND

(2) COORDINATION WITH MY PLANS AND SPECIFICATION, AND ARE 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, 4-344 OF TITLE 24, PART 1 [PER TITLE 24, PART 1, SECTION 4-317 (B)]

SIGNATURE OF ARCHITECT — 11/26/2024 DATE
EUGENE H. SIM, AIA
ARCHITECT DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

C-26432 LICENSE NUMBER — 05/31/2025 EXPIRATION DATE

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/17/2025

Approvals

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Architect
LICENSED ARCHITECT EUGENE H SIM NO. C-26432 REN. 05/31/25 STATE OF CALIFORNIA

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Consultants

Project Name
COOLER & FREEZER INSTALLATION

PRELIMINARY PHASE 2/8/2024

No.	Date	Revisions
A1	02/20/2025	Addendum 001

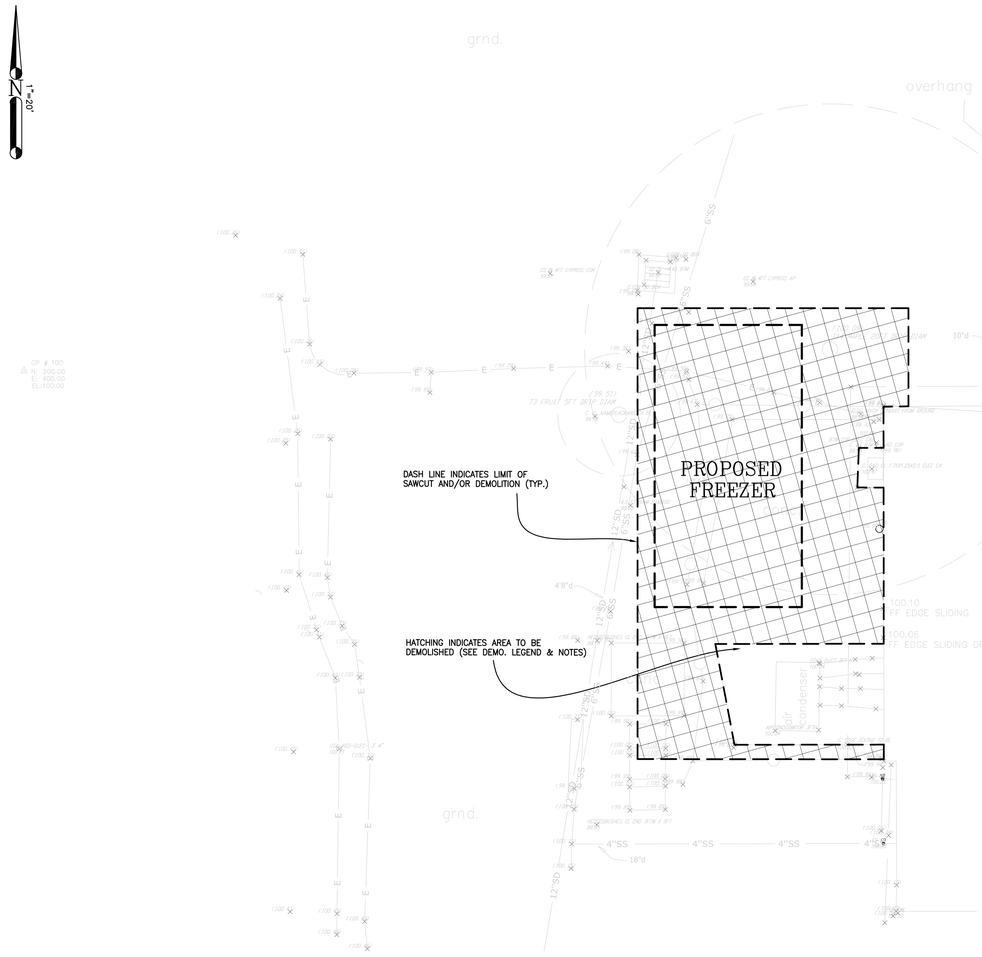
THIS SHEET IS PART OF A COMPLETE DOCUMENT SET. IT SHALL BE USED IN CONJUNCTION WITH THE COMPLETE SET AND NOT AS AN INDIVIDUAL SHEET.

DRAWING TITLE
COVER SHEET

SHEET NO. G0.0 ADDENDUM 001
JOB NO. 23017-CMS
DATE 09/18/2024
DRAFTER WR
CHECKED BY JM
DSA APPL. # 01-121669
PROJECT NO. 236

LEGEND

- PROPERTY LINE
- STREET CENTERLINE
- EASEMENT LINE
- CONCRETE CURB
- CURB & GUTTER
- EDGE OF PAVEMENT
- FENCE
- STORM DRAIN
- SANITARY SEWER
- WATER LINE
- CABLE TELEVISION
- TELEPHONE
- JOINT TRENCH (ELEC.,TEL.,GAS & CATV)
- FIRE SERVICE
- ELECTRIC LINE
- GAS LINE
- OVERHEAD POWER
- COMMUNICATION
- CONTOUR LINE
- ELECTRICAL BOX
- CLEAN OUT TO GRADE
- PULL BOX
- GAS VALVE
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- AREA DRAIN
- CATCH BASIN
- HOSE BIB
- IRRIGATION BOX
- WATER BOX
- WATER METER
- FIRE HYDRANT
- LIGHT POLE
- WATER VALVE
- SPOT ELEVATION
- TREE W/SIZE
- TREE W/SIZE & DRIPLINE
- FOUND STANDARD CITY MONUMENT



SURVEY NOTES:

1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM INFORMATION BY A SITE UTILITY LOCATOR & RECORD DATA. NO GUARANTEE IS MADE OR IMPLIED AS TO THE ACCURACY OF SUCH INFORMATION. NO EXCAVATIONS WERE MADE TO CONFIRM LOCATIONS. CONTRACTORS ARE CAUTIONED TO CONTACT U.S.A. UNDERGROUND AND TO EXERCISE EXTREME CARE IN VERIFYING ALL LOCATIONS PRIOR TO COMMENCING EXCAVATIONS OR OTHER WORK WHICH MAY AFFECT THESE UTILITIES.

2. IRRIGATION LATERALS, PARKING LOT LIGHTING WIRING AND SIGNAL WIRING NOT SHOWN. VERIFY LOCATION BEFORE COMMENCING TO TRENCH. REPLACE OR REPAIR IMMEDIATELY WHERE BROKEN TO PROVIDE UNINTERRUPTED SERVICE.

3. TREE SPECIES SHOWN HEREON WERE TAKEN FROM INTERPRETATION BY THE SURVEYOR AND NOT A QUALIFIED ARBORIST. NO GUARANTEE IS MADE OR IMPLIED TO THE ACCURACY OF THE SPECIES IDENTIFICATION.

DEMOLITION NOTES:

1. FOR WATER, SANITARY SEWER, & STORM DRAIN UTILITY DEMOLITION & RELOCATION PLAN SEE UTILITY PLAN.

2. CONFIRM ACTUAL LIMITS OF SURFACE DEMOLITION WITH LANDSCAPE, PAVING, GRADING, AND UNDERGROUND UTILITY PLANS.

3. TREE REMOVAL/PROTECTION IS NOT INCLUDED IN THE SCOPE OF WORK SHOWN ON THIS DRAWING.

4. WHEN EXISTING WALKS ARE PARTIALLY DEMOLISHED, SAWCUT PAVEMENT PERPENDICULAR TO THE DIRECTION OF THE WALK.

5. DEMOLITION OF BUILDING EXTERIOR AND INTERIOR IS NOT INCLUDED IN THE SCOPE OF WORK SHOWN ON THIS DRAWING.

6. SCOPE OF WORK SHOWN ON THIS DRAWING DOESN'T INCLUDE DEMOLITION OF EXISTING ELECTRICAL AND TELECOM CONDUITS AND EQUIPMENT.

7. ANY OTHER SURFACE, OR SUBSURFACE, IMPROVEMENTS WHICH MUST BE REMOVED IN ORDER TO COMPLETE THE WORK SHOWN ON THESE PLANS SHALL BE INCLUDED AS PART OF SITE DEMOLITION AT NO ADDITIONAL COST TO THE OWNER, REGARDLESS OF WHETHER OR NOT SUCH REMOVAL IS SHOWN ON THIS PLAN.

8. MAXIMUM LIMITS OF EXCAVATION SHOWN ARE APPROXIMATE DUE TO THE PHASING OF THE PROJECT. THE CONTRACTOR MAY REDUCE THE LIMITS OF DEMOLITION RELATIVE TO THE PHASE OF THE PROJECT BEING EXECUTED.

9. THE OWNER MAY WISH TO SALVAGE EXISTING ITEMS WITHIN THE DEMOLITION AREA. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO BEGINNING DEMOLITION AND STORE THE ITEMS IN A SAFE AREA AS DIRECTED BY THE OWNER.

10. EXACT LIMITS OF DEMOLITION IS SUBJECT TO ADJUSTMENT BY THE CONTRACTOR AS THEY EXECUTE INTERIM CONDITIONS ON THE PROJECT. CONTRACTOR TO COORDINATE ACCESS POINTS, CIRCULATION AND PERIMETER CONDITIONS WITH SCHOOL DISTRICT AND CM.

11. CONTRACTOR IS RESPONSIBLE FOR PRESERVING & PROTECTING ALL SURVEY CONTROL POINTS. A LICENSED LAND SURVEYOR SHALL REPAIR AND OR REPLACE ANY SURVEY CONTROL POINTS THAT ARE DISPLACED OR DAMAGED.

12. CONSTRUCTION WASTE MANAGEMENT: RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CALGREEN STANDARDS; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.

DEMOLITION LEGEND

- REMOVE ITEM
- LIMIT OF DEMOLITION/SAWCUT
- REMOVE ALL (E) SURFACE IMPROVEMENTS INCLUDING SITE PAVEMENT, CONC. CURBS, SIDEWALKS, VEGETATION, PARKING LOT LIGHTING, LIGHTPOLE BASES, FENCING, BOLLARDS & WHEEL STOPS. U.N.O. REGRADE AS NECESSARY TO REPLACE WITH NEW PAVEMENT PER GRADING & PAVING PLAN

Approvals

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2025

CUPERTINO UNION SCHOOL DISTRICT

10301 Vista Drive
Cupertino, CA 95014
(408) 252-3000

School Name and Address

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Architect | Engineer

Architect

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Tel. (408) 241-5494

BRIO JOB NO.: CUSD2416

REGISTERED PROFESSIONAL ENGINEER
Andrew Wong
No. 86818
REN. 03/31/2025
CIVIL
STATE OF CALIFORNIA

Project Name

COOLER & FREEZER INSTALLATION

PRELIMINARY PHASE 02/08/2024

No.	Date	Revisions

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DRAWING TITLE

DEMOLITION PLAN

SHEET NO.	JOB NO.
C-0	

DATE	DRAFTER	CHECKED BY
	Author	Checker

DSA APPL.#	PROJECT NO.
01-121669	236

UTILITY COORDINATION NOTES:

- SEE ARCHITECT, ELECTRICAL, MECHANICAL PLANS FOR (E) POWER, GAS, COMMUNICATION, OR DRY UTILITY DEMOLITION & RELOCATION

GRADING NOTES:

1. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM RECORD DATA. NO GUARANTEE IS MADE OR IMPLIED AS TO THE ACCURACY OF SUCH RECORD DATA. NO EXCAVATIONS WERE MADE TO CONFIRM LOCATIONS. CONTRACTORS SHALL CONTACT U.S.A. UNDERGROUND (1-800-227-2600) AND TO EXERCISE EXTREME CARE IN VERIFYING ALL LOCATIONS PRIOR TO COMMENCING EXCAVATIONS OR OTHER WORK WHICH MAY AFFECT THESE UTILITIES.
2. IRRIGATION LATERALS, PARKING LOT LIGHTING WIRING AND SIGNAL WIRING NOT SHOWN. VERIFY LOCATION BEFORE COMMENCING TRENCHING. REPLACE OR REPAIR IMMEDIATELY WHERE BROKEN TO PROVIDE UNINTERRUPTED SERVICE.
3. ALL FINISH GRADES SHOWN ARE TO TOP OF PAVEMENT NOT TOP OF CURB UNLESS NOTED OTHERWISE. TOP OF CURB ELEVATION IS 6" ABOVE TOP OF PAVEMENT UNLESS NOTED OTHERWISE.
4. GRADING CONFORM LINE AND MATCH POINTS [EXAMPLE:(39.05±(E))] TO EXISTING CONDITIONS ARE BASED ON ESTIMATED ELEVATIONS FROM AERIAL AND TOPOGRAPHIC SURVEYS. CONTRACTOR SHALL VERIFY ELEVATIONS AT CONFORM AND MATCH POINTS BEFORE GRADING TO ENSURE PROPER DRAINAGE AND SLOPES.
5. ALL CATCH BASINS SHALL BE OLDCASTLE (12"x12") WITH TRAFFIC WEIGHT GRATES, BOLTED DOWN. WHEN PIPE SIZES ARE 10" OR GREATER USE CATCH BASIN OLDCASTLE (24"x24"). UNLESS NOTED OTHERWISE. FOR CATCH BASINS IN WALKWAY AREAS, INCLUDING EXISTING CATCH BASINS, USE HEEL PROOF, ADA, AND TRAFFIC WEIGHT GRATE BY OLDCASTLE (888) 965-3227 OR APPROVED ALTERNATE.
6. ADJUST ALL (E) UTILITY VALVES, BOX, ETC. INCLUDING NOT SHOWN TO FINISHED GRADE (TYP.)
7. CONTRACTOR IS RESPONSIBLE FOR PRESERVING & PROTECT ALL SURVEY CONTROL POINTS. A LICENSED LAND SURVEYOR SHALL REPAIR AND OR REPLACE ANY SURVEY CONTROL POINTS THAT ARE DISPLACED OR DAMAGED.
8. ALL GRADING, EXCAVATION, COMPACTION, AND EXPANSIVE SOIL REMEDIATION SHALL BE OBSERVED BY THE SOIL ENGINEER ON-SITE DURING CONSTRUCTION. CONTACT SOILS ENGINEER 48 HOURS PRIOR TO COMMENCING WORK.

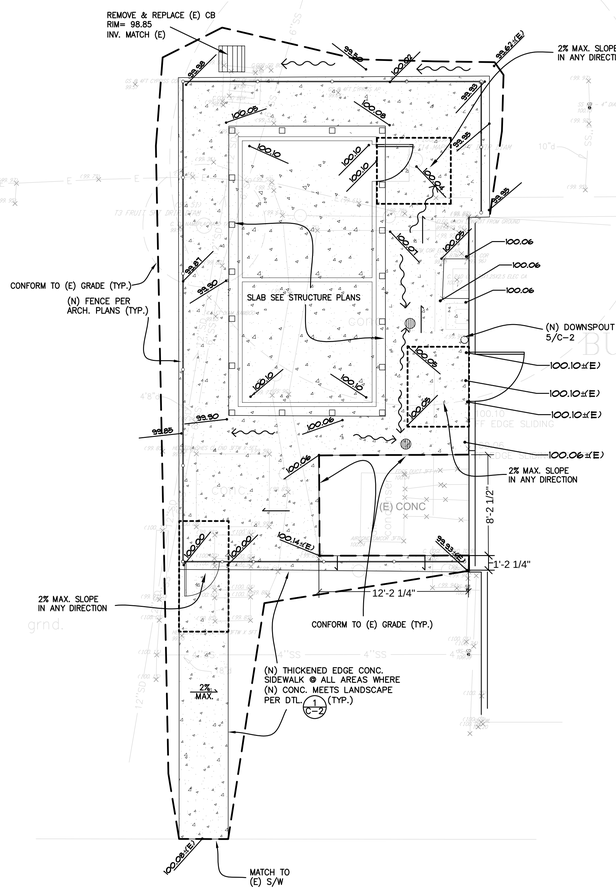
PAVING LEGEND

NEW CONCRETE SLAB PER STRUCTURAL SHEET S1.0 OVER 6" CL. II A.B., EXPANSION JOINTS @ 24' O.C. AND SCORED @ 4' O.C. SEE DTL 2/C-2 WHERE (N) CONC. MEETS LANDSCAPE. (N) THICKENED EDGE CONC. PER DTL. 1/C-2 (TYP.)

SEE DTL. 4/C-2 WHERE (N) CONC. MEETS BUILDING FACE (TYP.)

SEE DTL. 3/C-2 WHERE (N) CONC. MEETS (E) CONC. (TYP.)

N 1"=5'



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		SETBACK LINE
	LOW LOW	LIMIT OF WORK
		CENTER LINE
		EXCEPTION
		EASEMENT LINE
		CONCRETE CURB
		CONCRETE CURB & GUTTER
		SAWCUT/CONFORM LINE
		HEADER BOARD
		TRAFFIC MARKINGS
		SIGN
FH	F.H.	ACCESSIBLE RAMP
		FIRE HYDRANT
		EDGE OF PAVEMENT
		FENCE
	15"	STORM DRAIN & SIZE
	PP	PERFORATED PIPE
	SS 15"	SANITARY SEWER & SIZE
	W 2"	DOMESTIC WATER LINE
	T	TELEPHONE LINE
	JT	JOINT TRENCH (ELEC.,TEL.,GAS & CATV)
	FS 8"	FIRE SERVICE LINE & SIZE
	E	ELECTRIC LINE
	G 2"	GAS LINE & SIZE
	C	COMMUNICATION LINE
		(E) UTILITY TO BE ABANDONED OR REMOVED IF IT IS WITHIN THE NEW BLDG. FOOTPRINT/FOOTING AREA.
		GRADE BREAK
115	115	CONTOUR LINE
	C.O.T.G.	CLEAN OUT TO GRADE
		CATCH BASIN
		AREA DRAIN
		DRAINAGE ARROW
RPP	BFP	BACK FLOW PREVENTOR
	P.I.V.	POST INDICATOR VALVE
	F.D.C.	FIRE DEPT. CONNECTION
S	SSMH	SANITARY SEWER MANHOLE
D	SDMH	STORM DRAIN MANHOLE
		WATER VALVE
		STREET LIGHT
		GUY WIRE
		JUNCTION POLE
TELE		TELEPHONE BOX
U		UNKNOWN UTILITY BOX
E	P	POWER (ELECTRICAL) BOX
WM	MM	WATER METER
W		WATER BOX
		VALLEY GUTTER
	50.85	SPOT ELEVATION
CWDL 20' 18"		TREE W/SIZE & DRIPLINE
11"		TREE W/SIZE & NO DRIPLINE

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BRIO JOB NO.: CUSD2416

Project Name

COOLER & FREEZER INSTALLATION

PRELIMINARY PHASE 02/08/2024

No.	Date	Revisions
	11/25/24	DWG V3

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DRAWING TITLE

GRADING PLAN

SHEET NO.	JOB NO.
C-1	

DATE	DRAFTER	CHECKED BY
	Author	Checker

DSA APPL.#	PROJECT NO.
01-121669	236

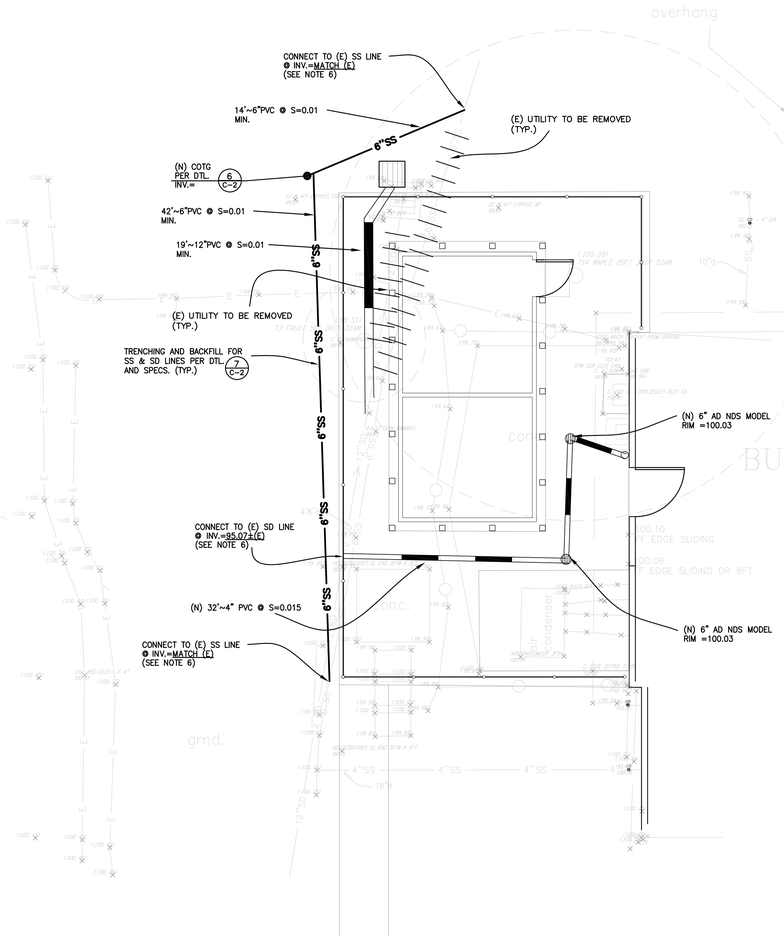
UTILITY COORDINATION NOTES:

SEE ARCHITECT, ELECTRICAL, MECHANICAL PLANS FOR (E) POWER, GAS, COMMUNICATION, OR DRY UTILITY DEMOLITION & RELOCATION

UTILITY NOTES:

1. THIS SURVEY IS NOT INTENDED TO REPRESENT THE EXACT LOCATIONS, SIZES OR EXTENT OF THE UTILITIES WITHIN THE AREA ENCOMPASSED BY THIS SURVEY. THEREFORE, IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO VERIFY THE LOCATION, SIZE AND EXTENT OF ANY EXISTING UTILITIES PRIOR TO DESIGN OR CONSTRUCTION. CONTRACTORS ARE CAUTIONED TO CONTACT U.S.A. UNDERGROUND AND TO EXERCISE EXTREME CARE IN VERIFYING ALL LOCATIONS PRIOR TO COMMENCING EXCAVATIONS OR OTHER WORK WHICH MAY AFFECT THESE UTILITIES.
2. IRRIGATION LATERALS, PARKING LOT LIGHTING WIRING AND SIGNAL WIRING NOT SHOWN. VERIFY LOCATION BEFORE COMMENCING TRENCHING. REPLACE OR REPAIR IMMEDIATELY WHERE BROKEN TO PROVIDE UNINTERRUPTED SERVICE.
3. UTILITY ABANDONMENT/REMOVAL: DISCONNECT AND CAP PIPES AND SERVICES TO REMAIN. REMOVE ALL PORTIONS OF ALL UTILITIES WITHIN NEW BUILDING FOOTPRINT AND DISPOSE OF OFF-SITE. OTHERWISE ABANDON IN PLACE U.N.O.
4. NOTIFY THE ENGINEER IMMEDIATELY OF ANY UTILITIES ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS. PRESERVE AND REPAIR ANY UTILITIES THAT ARE DAMAGED AND THAT ARE TO REMAIN.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CROSSINGS OF NEW UTILITIES WITH EACH OTHER, AND WITH EXISTING UTILITIES. VERIFY EXISTING PIPE LOCATION AND INVERT PRIOR TO INSTALLING NEW UTILITIES. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR DEVIATIONS. INSTALL GRAVITY UTILITIES BEFORE WATER & DRY UTILITIES TO ENSURE NO CONFLICTS.
6. PRIOR TO CONNECTING TO EXISTING UTILITIES OR INSTALLING UPSTREAM UTILITIES, VERIFY LOCATION, FLOW DIRECTION, SIZE, INVERT OR DEPTH AT POINT OF CONNECTION.
7. ALL BUILDING SEWER LATERALS SHALL BE WITH CLEANOUT TO GRADE.
8. SAWCUT, REMOVE, & REPLACE EXISTING PAVEMENT, CURBS, SIDEWALKS, & LANDSCAPING TO MATCH (E) AS NECESSARY TO INSTALL NEW UTILITIES AS SHOWN. FOR REPLACING CONCRETE PAVEMENT, USE 18" LONG, #4 DOWELS @ 12" O.C. ON THE CENTER OF THE (N) CONCRETE SECTION AND EMBED A MINIMUM OF 6" INTO (E) CONCRETE WITH EPOXY. FOR LANDSCAPE AREAS, REFER TO ARCHITECTURAL/LANDSCAPE SPECIFICATIONS FOR TOP SOIL REQUIREMENTS.
9. CONTRACTOR IS RESPONSIBLE FOR PRESERVING & PROTECTING ALL SURVEY CONTROL POINTS. A LICENSED LAND SURVEYOR SHALL REPAIR AND OR REPLACE ANY SURVEY CONTROL POINTS THAT ARE DISPLACED OR DAMAGED.

N 1"=5'



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		SETBACK LINE
	LOW LOW	LIMIT OF WORK
		CENTER LINE
		EXCEPTION
		EASEMENT LINE
		CONCRETE CURB
		CONCRETE CURB & GUTTER
		SAWCUT/CONFORM LINE
		HEADER BOARD
		TRAFFIC MARKINGS
		SIGN
FH	F.H.	ACCESSIBLE RAMP
		FIRE HYDRANT
		EDGE OF PAVEMENT
		FENCE
	15"	STORM DRAIN & SIZE
	PP	PERFORATED PIPE
	SS 15"	SANITARY SEWER & SIZE
	W 2"	DOMESTIC WATER LINE
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	JT	JOINT TRENCH (ELEC.,TEL.,GAS & CATV)
	FS 8"	FIRE SERVICE LINE & SIZE
	E	ELECTRIC LINE
	G 2"	GAS LINE & SIZE
	C	COMMUNICATION LINE
		(E) UTILITY TO BE ABANDONED OR REMOVED IF IT IS WITHIN THE NEW BLDG. FOOTPRINT/FOOTING AREA.
		GRADE BREAK
115	115	CONTOUR LINE
	C.O.T.G.	CLEAN OUT TO GRADE
		CATCH BASIN
		AREA DRAIN
PEP		DRAINAGE ARROW
	BFP	BACK FLOW PREVENTOR
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S	SSMH	SANITARY SEWER MANHOLE
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		STREET LIGHT
		GUY WIRE
		JUNCTION POLE
TELE		TELEPHONE BOX
U		UNKNOWN UTILITY BOX
E	P	POWER (ELECTRICAL) BOX
WM	MM	WATER METER
W		WATER BOX
		VALLEY GUTTER
	50.85	SPOT ELEVATION
18"		TREE W/SIZE & DRIPLINE
11"		TREE W/SIZE & NO DRIPLINE

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BRIO JOB NO.: CUSD2416

PROFESSIONAL ENGINEER — Andrew Brong — No. 86748 — REN. 03/31/25 — CIVIL — STATE OF CALIFORNIA

Project Name

COOLER & FREEZER INSTALLATION

PRELIMINARY PHASE 02/08/2024

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	11/27/24	DWG V3

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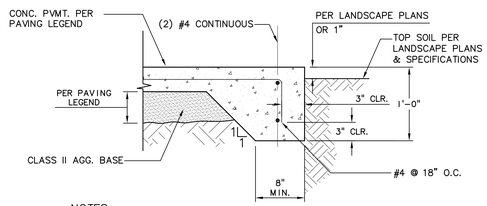
DRAWING TITLE

UTILITY PLAN

SHEET NO.	JOB NO.
C-1.1	

DATE	DRAFTER	CHECKED BY
	Author	Checker

DSA APPL.#	PROJECT NO.
01-121669	236

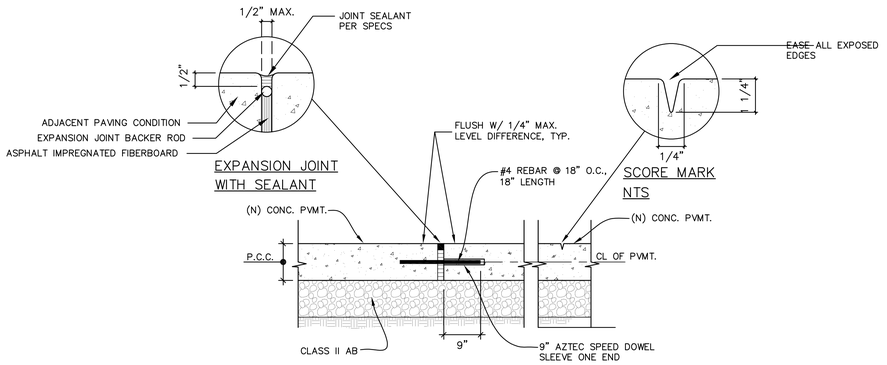


NOTES:

1. CONCRETE TO HAVE MINIMUM STRENGTH OF 3000 PSI AFTER 28 DAYS.

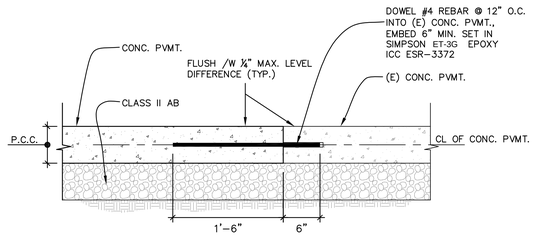
SIDEWALK WITH THICKENED EDGE DETAIL

1 / C-2 — N.T.S.



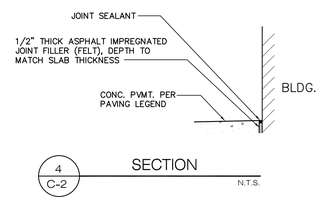
CONC. SCORE & EXP. JOINTS DETAIL

2 / C-2 — N.T.S.



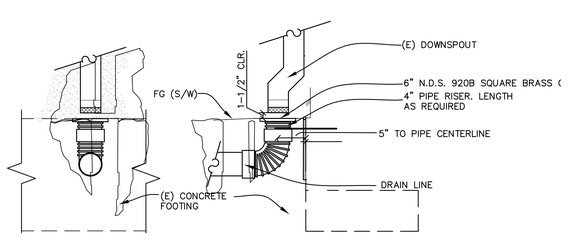
CONC. PVMT. DOWEL CONNECTION DETAIL

3 / C-2 — N.T.S.



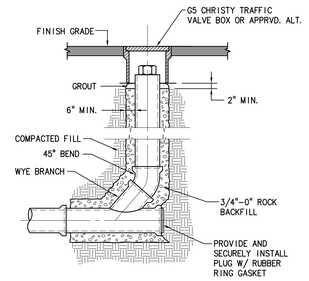
SECTION

4 / C-2 — N.T.S.



DOWNSPOUT DRAIN DETAIL

5 / C-2 — N.T.S.

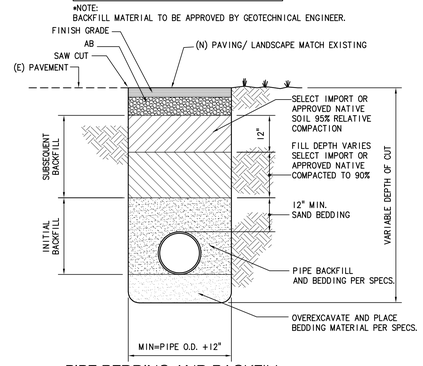


TYP. SSCO DETAIL

6 / C-2 — N.T.S.

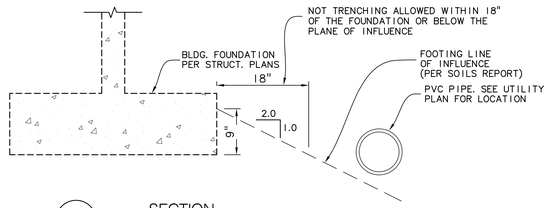
*SELECT IMPORT SPECIFICATIONS	
SIEVE SIZE	PERCENTAGE PASSING
NO. 4	50-100
NO. 200	0-5

*NOTE:
BACKFILL MATERIAL TO BE APPROVED BY GEOTECHNICAL ENGINEER.



PIPE BEDDING AND BACKFILL DETAIL

7 / C-2 — N.T.S.



SECTION

8 / C-2 — N.T.S.

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BRIO JOB NO.: CUSD2416

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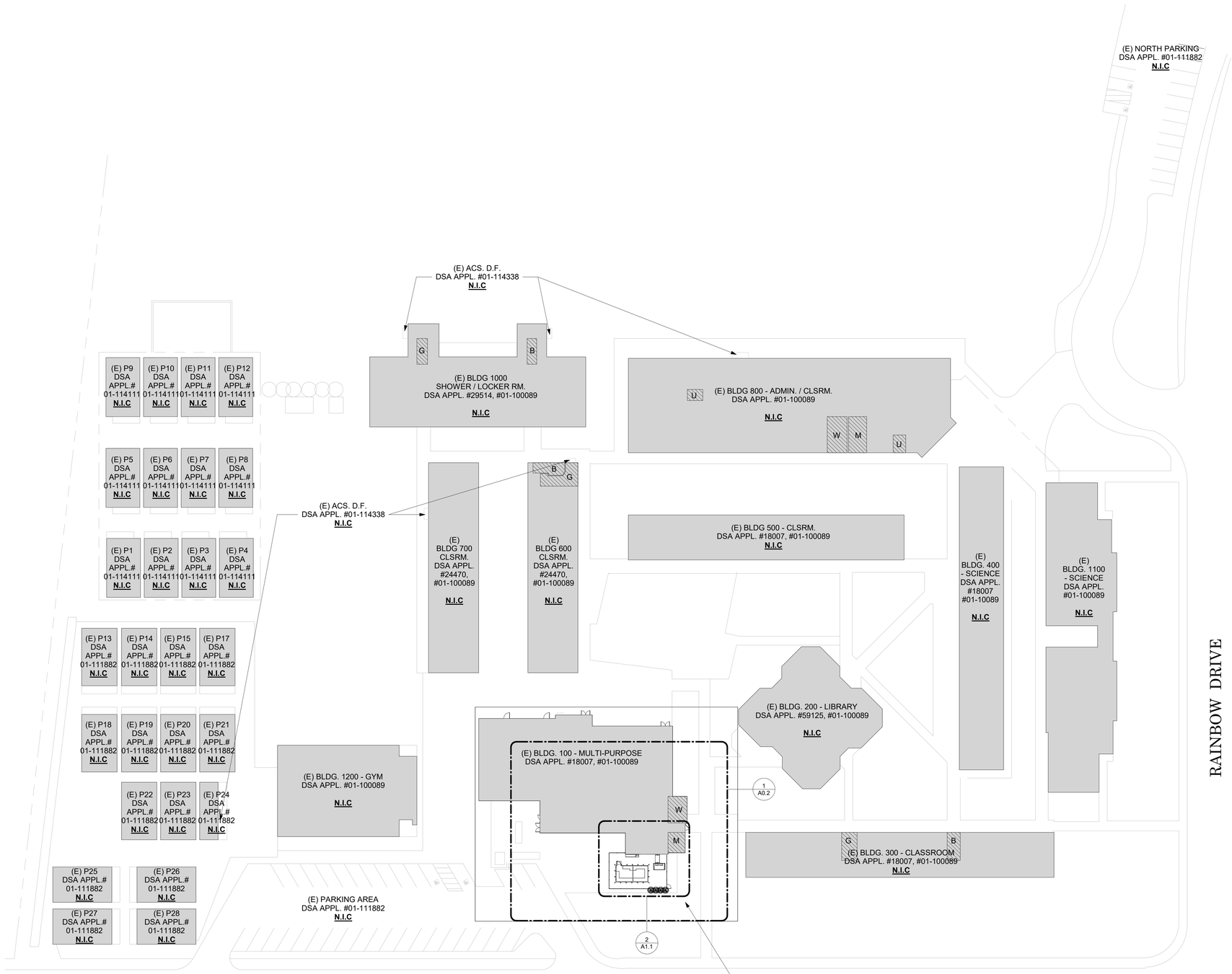
DRAWING TITLE

SECTIONS & DETAILS

SHEET NO. C-2 | JOB NO.

DATE | DRAFTER Author | CHECKED BY Checker

DSA APPL.# 01-121669 | PROJECT NO. 236



1 SITE PLAN
1" = 30'-0"

SHEET NOTES

1. SEE SHEET A1.1 FOR ON-SITE INFORMATION.
2. SEE ALL OTHER DISCIPLINES FOR FURTHER INFORMATION.
3. ACCESSIBLE ROUTE AS INDICATED ON PLAN, COMPLYING WITH CBC 2022 SECTION 11B-402 IS A BARRIER FREE ACCESS P.O.T. WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. AND AT LEAST 48" WIDE. ENSURE SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CONFIRM CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
4. SITE PLAN BASED ON APPROVED AND AS-BUILT DRAWINGS PREPARED BY: SEE DSA APPLICATION #01-114338. CONTRACTOR TO VERIFY IN FIELD THE FOLLOWING CONDITIONS AS SHOWN ON APPROVED AS-BUILT DRAWINGS.
5. ALL EXTERIOR ENTRANCES ON THIS PLAN ARE ACCESSIBLE & COMPLY WITH CBC 2022 SECTION 11B-404 INCLUDING:
   a. 32" CLR OPENING
   b. REQUIRED STRIKE EDGE CLEARANCE @ PULL OF DOOR (24" FOR FRONT HATCH & LATCH, 36" FOR HINGE APPROACH)
   c. LEVEL LANDINGS (2% SLOPE MAX ON EXTERIOR SIDE, 0.0% ON INTERIOR SIDE)
   d. ACCESSIBLE THRESHOLD, HARDWARE, CLOSER, KICK-PLATE
   e. ISA SIGN ON EXTERIOR SIDE OF ENTRANCE
   f. EXIT SIGN ON INTERIOR SIDE OF DOOR
7. (E) DRINKING FOUNTAINS ON THE EXTERIOR OF THE BUILDINGS THAT ARE ALONG THE P.O.T. AND AT FRONT ENTRY POINTS TO THE BUILDINGS SHALL BE ACCESSIBLE AND CODE COMPLIANT.
8. ACCORDING TO IR A-11 LINE 1.11, FOR ALTERATION PROJECTS WHERE P.O.T. IMPROVEMENTS ARE REQUIRED, THE COMPLETE SCOPE OF P.O.T, IMPROVEMENTS SHALL BE DEFINED IN THE INITIAL DSA PERMIT SUBMITTAL. THE P.O.T. PLAN HAS BEEN SUBMITTED AND APPROVED IN THE INITAL DSA PERMIT. PLEASE REFER THE APPROVED DSA APPLICATION #01-114338.

LEGEND

NOTE: NOT ALL LEGENDS ARE USED IN THIS SHEET

- (E) TRUNCATED DOME
- ACCESSIBLE PATH OF TRAVEL
- PROPERTY LINE
- (N) CHAIN LINK FENCE
- (E) BUILDING, N.I.C
- (E) PLANT
- (E) DOOR TO REMAIN
- (N) DOOR
- SCOPE OF WORK
- (E) FIRE APPARATUS ROAD PER DSA APPLICATION #01-114338 THIS PROJECT DOES NOT IMPACT, CHANGE OR MODIFY THE (E) FIRE APPARATUS ROAD
- (E) ADA PARKING STALL

PARKING COUNT

GENERAL PARKING

STANDARD PARKING	32
VAN ACCESSIBLE PARKING	1
STANDARD ACCESSIBLE PARKING	1
TOTAL PARKING	34

NORTH PARKING

STANDARD PARKING	46
VAN ACCESSIBLE PARKING	1
STANDARD ACCESSIBLE PARKING	1
TOTAL PARKING	48

Approvals

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2025

CUPERTINO UNION SCHOOL DISTRICT

10301 Vista Drive
Cupertino, CA 95014
(408) 252-3000

School Name and Address

MILLER MIDDLE SCHOOL
6151 RAINBOW DR., SAN JOSE, CA 95129

Architect

LICENSED ARCHITECT
EUGENE W. SIM
NO. C-20432
REN. 05/31/25
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Engineer

Architect

SIM ARCHITECTS

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(415) 362-8081 (415) 362-8082 fax

Consultants

Project Name

COOLER & FREEZER INSTALLATION

PRELIMINARY PHASE 2/8/2024

No.	Date	Revisions
1	07/15/2024	DEH Submittal
2	10/8/2024	DWG v2

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DRAWING TITLE

SITE PLAN

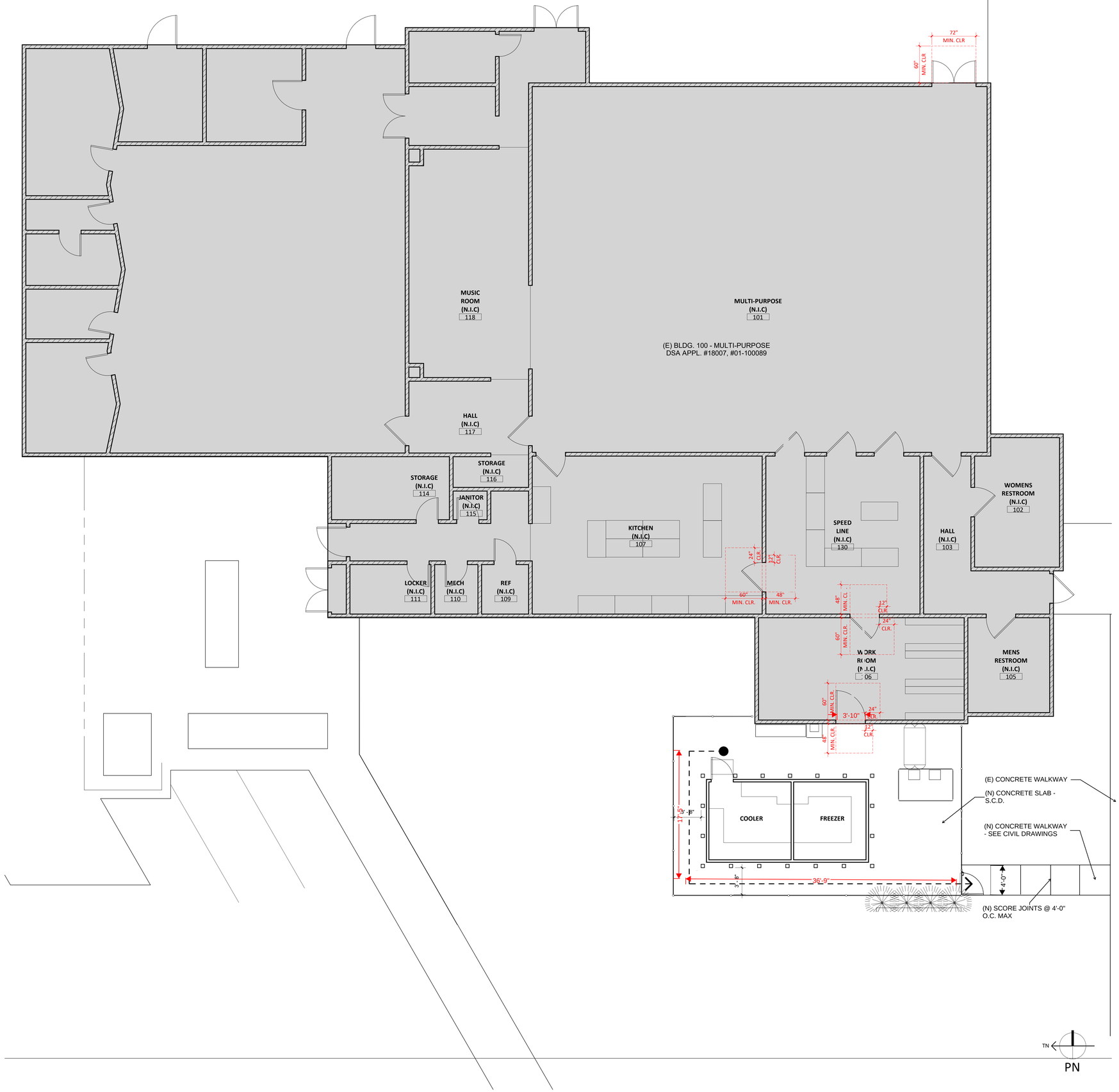
SHEET NO. A0.1

JOB NO. 23017-CMS

DATE	DRAFTER	CHECKED BY
01/11/24	Author	Checker

DSA APPL. # 01-121669

PROJECT NO. 236



1 ACCESSIBILITY SITE PLAN
3/16" = 1'-0"

SHEET NOTES

1. ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED ON PLAN IS A BARRIER FREE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". CONTRACTOR SHALL VERIFY THAT THERE ARE NO BARRIERS IN PATH OF TRAVEL.
2. REFER TO SHEET E1.1 OF DSA APPLICATION #01-114338 FOR APPROVED EXTERIOR PATH OF TRAVEL AND ACCESSIBLE PARKING SPACES.

LEGEND

NOTE: NOT ALL LEGENDS ARE USED IN THIS SHEET

- (E) TRUNCATED DOME
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- (N) DOOR
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- (E) FIRE APPARATUS ROAD PER DSA APPLICATION #01-114338 THIS PROJECT DOES NOT IMPACT, CHANGE OR MODIFY THE (E) FIRE APPARATUS ROAD
- (E) ADA PARKING STALL

KEYNOTES

Approvals

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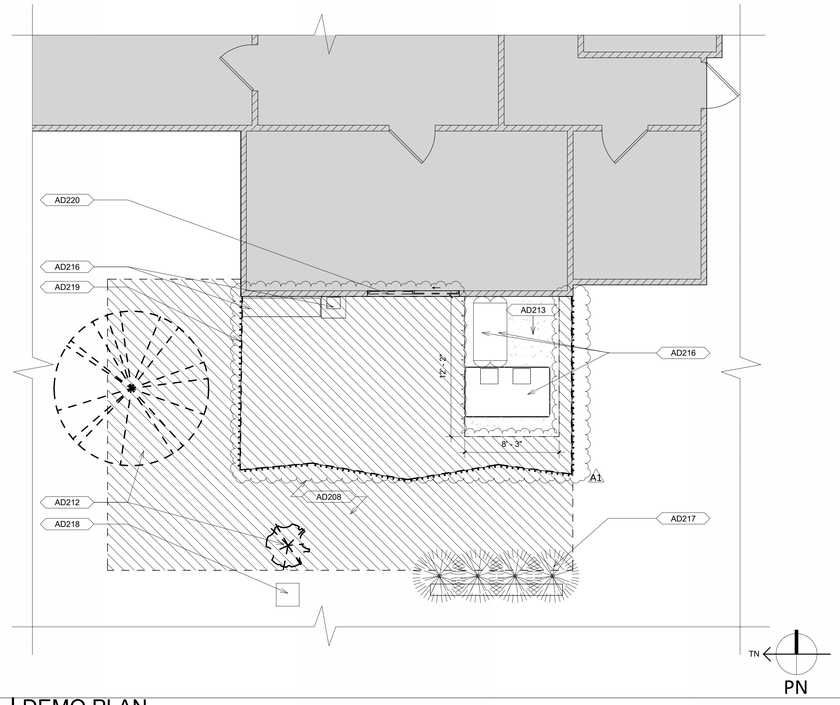
DRAWING TITLE

ACCESSIBILITY SITE PLAN

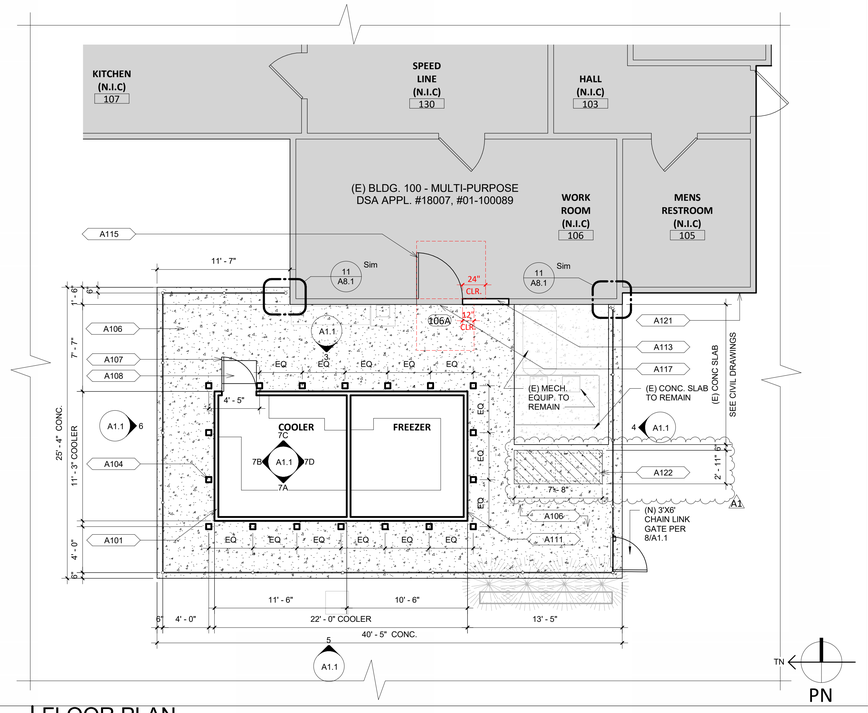
SHEET NO.	JOB NO.
A0.2	23017-CMS

DATE	DRAFTER	CHECKED BY
01/11/24	Author	Checker

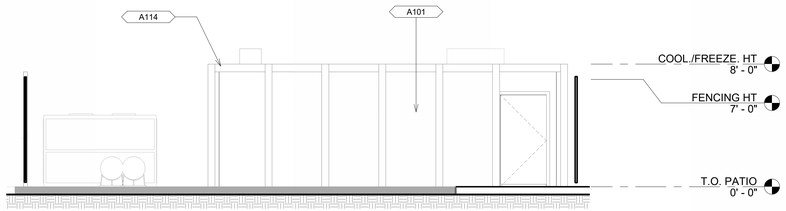
DSA APPL. #	PROJECT NO.
01-121669	236



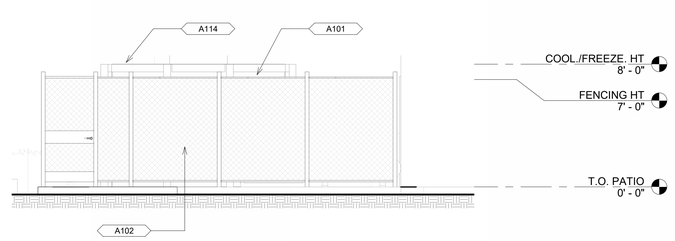
1 DEMO PLAN
3/16" = 1'-0"



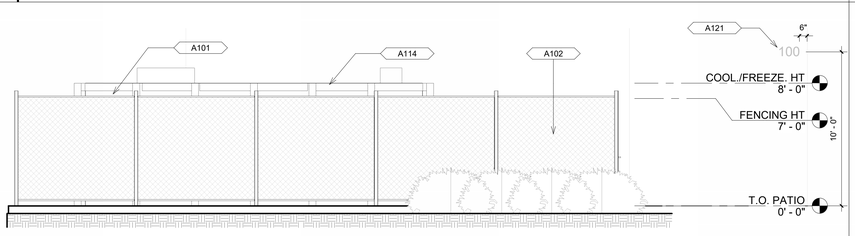
2 FLOOR PLAN
3/16" = 1'-0"



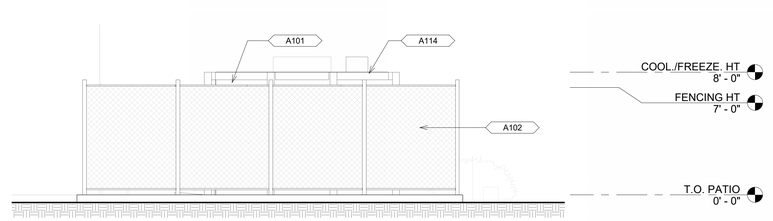
3 EXTERIOR NORTH ELEVATION
1/4" = 1'-0"



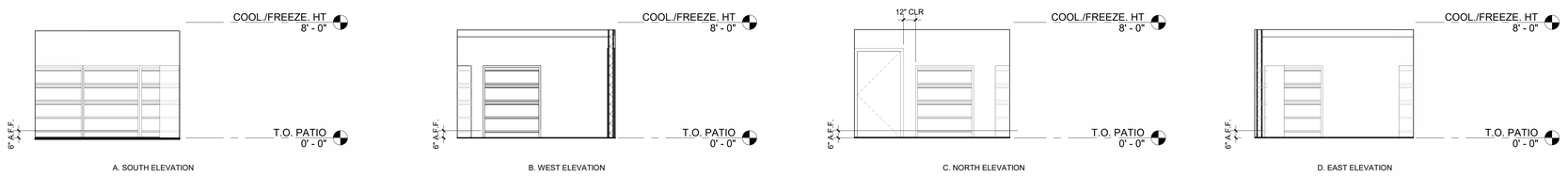
4 EXTERIOR EAST ELEVATION
1/4" = 1'-0"



5 EXTERIOR SOUTH ELEVATION
1/4" = 1'-0"



6 EXTERIOR WEST ELEVATION
1/4" = 1'-0"



7A INTERIOR ELEVATIONS
1/4" = 1'-0"

SHEET NOTES

1. DRAWINGS ARE BASED ON AS-BUILT PLANS PROVIDED BY CUPERTINO UNION SCHOOL DISTRICT.
2. COORDINATE BETWEEN STRUCTURAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS. REVIEW DEMO DRAWINGS & PHOTOS TO PREPARE FOR NEW WORK.
3. GC TO COORDINATE WITH CIVIL FOR CONTROL POINTS AND STAKING LOCATIONS.

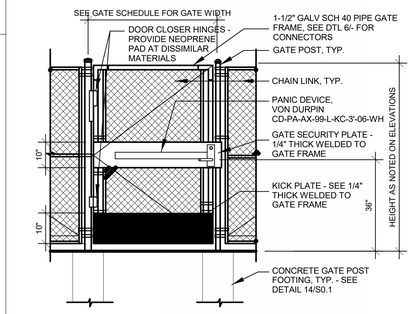
LEGEND

NOTE: NOT ALL LEGENDS ARE USED IN THIS SHEET

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- ACCESSIBLE PATH OF TRAVEL
- PROPERTY LINE
- (N) CHAIN LINK FENCE
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- (E) ADA PARKING STALL

KEYNOTES

A101	COOLER, SEE SPEC.
A102	CHAINLINK FENCE, S.S.D. AND 2/A8.1
A104	SUPPORT POST, S.S.D. FOR POST DETAILS, TYP.
A106	CONCRETE PAD, S.C.D. TYP.
A107	COOLER DOOR PROVIDED BY MANUFACTURER, SEE SPEC
A108	RAMP PROVIDED BY COOLER MANUFACTURER, SEE SPEC
A111	FREEZER, SEE SPEC
A113	PROVIDE NEW WALL, MATCH WALL FINISH W/ (E) SURROUNDING FINISH - SEE DETAIL 4 & 9/A8.1
A114	PROVIDE STRUCTURAL BRACING, S.S.D. TYP.
A115	SINGLE SWING DOOR, SEE DOOR #106 & DETAIL 4 ON SHEET A8.1 DOOR SCHEDULE FOR MORE INFORMATION
A117	PROVIDE ILLUMINATED EXIT SIGN ABOVE DOOR PER CBC 1013.1
A121	PAINTED BUILDING IDENTIFICATION, 4" MIN. HIGH. COLOR TO CONTRAST BUILDING COLOR.
A122	4" CONCRETE HOUSEKEEPING PAD FOR CONDENSING UNIT
A1 AD208	TRENCH PERIMETER AND GRIND THE GROUND FOR FUTURE CONCRETE PAD, S.C.D. TYP.
AD212	(E) TREE TO REMOVE
AD213	(E) CONCRETE PAD TO REMAIN, S.C.D.
AD216	(E) ELECTRICAL/MECHANICAL/UTILITY EQUIPMENT TO REMAIN AND PROTECT DURING CONSTRUCTION
AD217	(E) LANDSCAPE TO PROTECT DURING CONSTRUCTION, S.L.D. TYP.
AD218	(E) MEMORIAL PLAQUE TO REMAIN AND PROTECT DURING CONSTRCUTION
AD219	(E) WOODEN FENCE TO REMOVE, PATCH AND REPARE DAMAGED GROUND, TYP.
AD220	(E) SLIDING DOOR TO DEMO, PREPARE THE WALL FOR FUTURE NEW DOOR INSTALLATION, S.S.D.



8 TYP. CHAIN LINK GATE W/ PANIC HW
NTS

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/17/2025

Approvals

CUPERTINO UNION SCHOOL DISTRICT

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Consultants

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PRELIMINARY PHASE 2/8/2024

No.	Date	Revisions
A1	02/20/2025	Addendum 001

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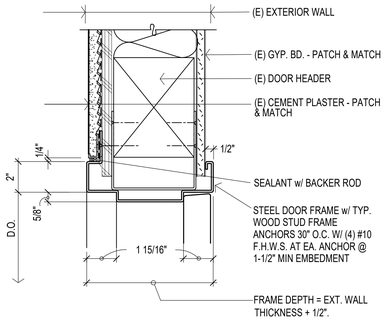
DRAWING TITLE

ENLARGED PLANS & ELEVATIONS

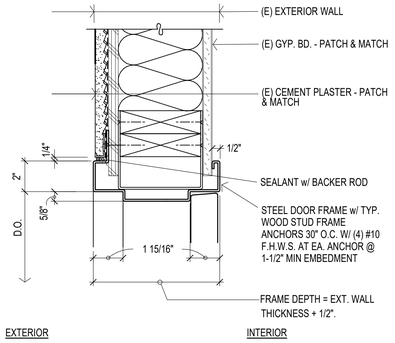
SHEET NO.	JOB NO.
A1.1 ADDENDUM 001	23017-CMS

DATE	DRAFTER	CHECKED BY
02/18/2025	Author	Checker

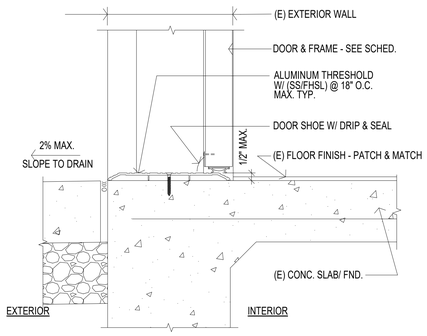
DSA APPL. #	PROJECT NO.
01-121669	236



5 DOOR HEAD
3" = 1'-0"

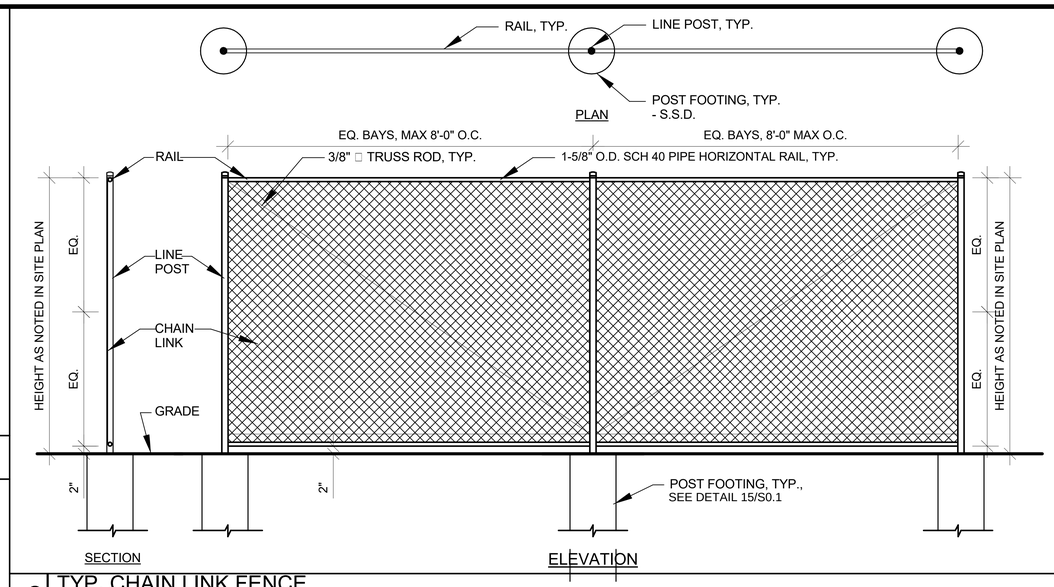


7 DOOR JAMB
3" = 1'-0"

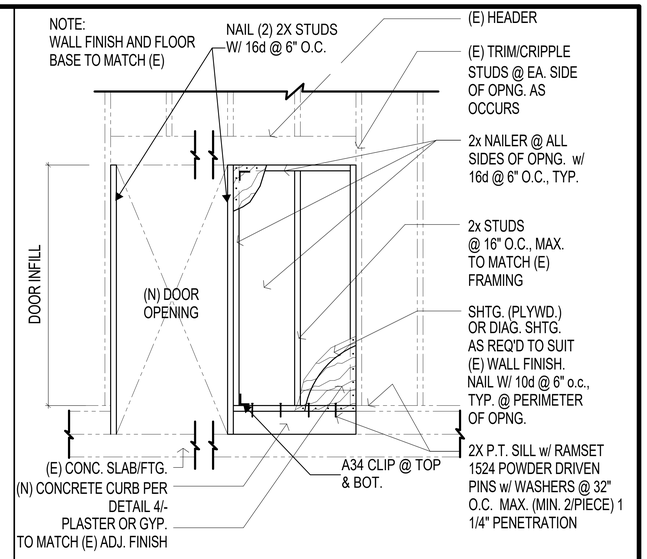


NOTE: SET THRESHOLD IN MASTIC

8 DOOR SILL
3" = 1'-0"



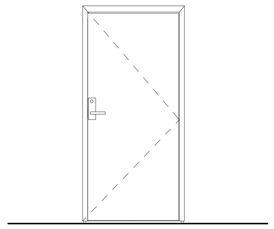
2 TYP. CHAIN LINK FENCE
3/4" = 1'-0"



9 WALL INFILL
3/4" = 1'-0"

DOOR SCHEDULE

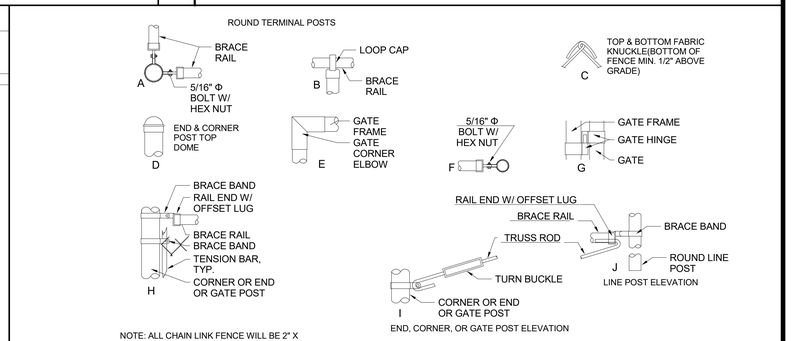
DOOR #	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME THRESHOLD	FIRE RATING	HARDWARE
106A	4' - 0"	7' - 0"	0' - 2"	HM	PAINT	HM	PAINT	5/A8.1	7/A8.1	8/A8.1		1



HARDWARE GROUP NO.1

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	BB1199	626	HGR
1 EA	RIM CYLINDER	20-057	626	SCH
1 EA	ENTRANCE LOCK	VANDLGARD D96PD LEVER TO MATCH (E)	626	SCH
1 EA	CLOSER	411	626	LCN

1 DOOR & FRAME SCHEDULE
1/2" = 1'-0"

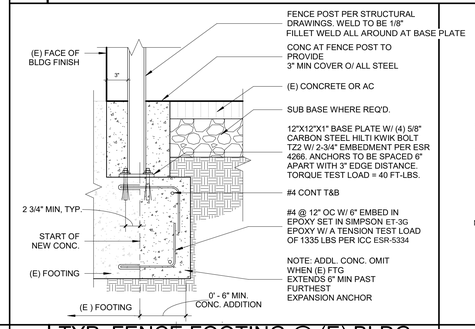


NOTE: ALL CHAIN LINK FENCE WILL BE 2" X 2" BLACK POWDER COATED

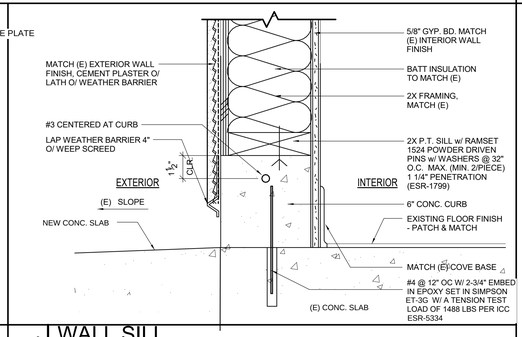
6 TYP. CHAIN LINK FENCE CONNECTORS
1 1/2" = 1'-0"

NOTE: SET THRESHOLD IN MASTIC

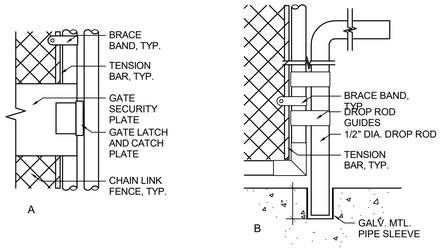
8 DOOR SILL
3" = 1'-0"

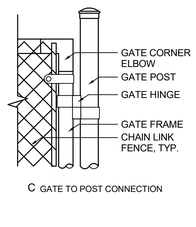


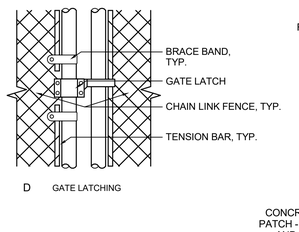
10 TYP. FENCE FOOTING @ (E) BLDG
1 1/2" = 1'-0"

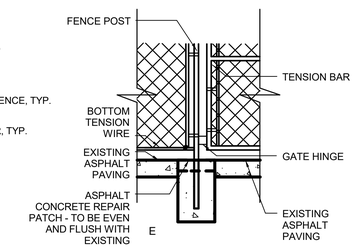


4 WALL SILL
3" = 1'-0"



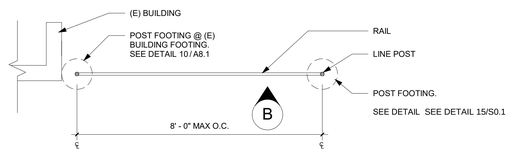




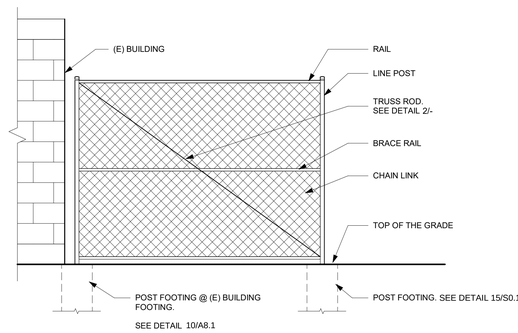


NOTE: ONLY APPLICABLE TO SERVICE GATE, SHALL NOT BE APPLIED TO ANY GATES WITH PANIC HARDWARE. SEE GATE SCHEDULE FOR MORE INFORMATION

3 TYP. CHAIN LINK DETAILS
1 1/2" = 1'-0"



A. PLAN



B. ELEVATION

11 CHAIN LINK FENCE @ (E) STRUCTURE
1/2" = 1'-0"

Approvals

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DRAWING TITLE

DETAILS & SCHEDULES

SHEET NO.	JOB NO.
A8.1	23017-CMS

DATE	DRAFTER	CHECKED BY
4/25/2024	WR	Checker

DSA APPL. #	PROJECT NO.
01-121669	236

GENERAL NOTES

1. GENERAL

1.1. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.

1.2. ALL CODE OR STANDARDS REFERENCES SHALL BE CONSIDERED TO BE THE MOST RECENT EDITION OF THE CODE OR STANDARD.

1.3. THE DESIGN WAS PERFORMED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE AND LOCAL JURISDICTION BUILDING CODES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL LOCAL JURISDICTION AND STATE BUILDING CODES IN EFFECT AT THE SITE OF THE BUILDING.

1.4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, TECHNIQUES, PROCEDURES, METHODS, SEQUENCES, SAFETY PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. NOR SHALL THE ENGINEER BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE TO COMPLETE THE WORK AS SPECIFIED BY THE CONTRACT DOCUMENTS.

1.5. BELOW ARE THE DESIGN LOADS AND PARAMETERS THAT WERE USED IN THE DESIGN OF THE STRUCTURE:

1.5.2. FREEZER FRAME

1.5.2.1. WIND PER 1603A.1.4
V = 95 MPH (NOMINAL)
V = 74 MPH (ASD)
RISK CATEGORY = II
EXPOSURE: C
INTERNAL PRESSURE COEFFICIENT = ±0.18

1.5.1.3. SEISMIC PER 1603A.1.5
BUILDING LOCATION: 37.3020317°N, −122.0125734°W
RISK CATEGORY = II
SEISMIC IMPORTANCE FACTOR (I_E) = 1.00
S_S = 2.067, S_1 = 0.739
SITE CLASS: D
S_{DSMAX} = 1.654g, S_{D1} = 0.838g
SEISMIC DESIGN CATEGORY: D
BASIC SEISMIC FORCE−RESISTING SYSTEM:
STEEL ORDINARY CANTILEVERED COLUMN SYSTEM
DESIGN BASE SHEAR = 9.04 KIPS
SEISMIC RESPONSE COEFFICIENT (C_S) = 1.323
RESPONSE MODIFICATION COEFFICIENT (R) = 1.25
ANALYSIS PROCEDURE USED: E.L.F.

1.5.1.4. GRAVITY LOADING
DEAD LOAD = 5 PSF

1.5.1.5. GEOTECHNICAL
BEARING: 1500 PSF

1.6. ALL MEMBERS AND CONNECTIONS FOR THE PROJECT, WHICH MAY NOT BE SHOWN OR SHOWN FULLY, SHALL BE CONSTRUCTED IN A MANNER SIMILAR TO THAT USED FOR SIMILAR MEMBERS AND CONNECTIONS.

1.7. THE EXISTING MEMBERS, CONNECTIONS AND CONDITIONS SHOWN ON THESE DRAWINGS HAS BEEN DETERMINED BY SOME MINOR FIELD VERIFICATION AND ANY AVAILABLE "RECORD" DRAWINGS MADE AVAILABLE TO THE ENGINEER. THE ENGINEER HAS MADE A GOOD FAITH EFFORT TO DETERMINE THE EXISTING CONSTRUCTION INFORMATION AND TECHNIQUES BUT SHALL NOT BE HELD ACCOUNTABLE FOR THE COMPLETE ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THE PLANS AND DETAILS. THE CONTRACTOR AND SUBCONTRACTORS SHALL MAKE ALLOWANCES AND PROVISIONS IN PRICING AND TIME FRAME FOR ANY FIELD ADJUSTMENTS THAT MAY BE REQUIRED. PRIOR TO THE START OF WORK, THE CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE AND DETERMINE THE EXISTING CONSTRUCTION AND TECHNICS FOR THEMSELVES AND BRING TO THE ATTENTION OF THE ENGINEERS ANY DISCREPANCIES.

1.8. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AND SUBCONTRACTOR PRIOR TO THE START OF WORK. ALL DIMENSIONS SHALL BE COORDINATED WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AS WELL AS ALL OTHER DRAWINGS AND SPECIFICATIONS. REPORT ANY AND ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK. FABRICATION OF MEMBERS AND CONNECTIONS SHALL NOT START UNTIL ALL DISCREPANCIES ARE RESOLVED.

1.9. CONDUCT ALL WORK IN A MANNER WHICH MINIMIZES THE DAMAGE TO THE EXISTING STRUCTURE AND FINISHES.

1.10. (N) INDICATES NEW CONSTRUCTION. (E) INDICATES EXISTING CONSTRUCTION.

1.11. THE STRUCTURAL SYSTEMS HAVE BEEN DESIGNED TO RESIST THE SUPERIMPOSED LIVE LOADS REQUIRED BY THE BUILDING CODE AND FOR ADDITIONAL LOADING DETERMINED BY STANDARD ENGINEERING PRACTICES. NO SPECIAL LOADING CONDITIONS HAVE BEEN CONSIDERED FOR RESISTING CONCENTRATED LOADS FROM STORAGE AND HANDLING OF CONSTRUCTION MATERIALS OR FROM OPERATION OF CONSTRUCTION EQUIPMENT. ALL SCAFFOLDING, BRACING AND SHORING SYSTEMS REQUIRED FOR INSTALLATION, STABILITY, AND SAFETY OF NEW WORK AND PROTECTION REQUIRED FOR THE SAFETY OF PEDESTRIANS AND JOBSITE PERSONNEL SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR IS, AT ALL TIMES, SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE REPRESENTING THE SAFETY OF PERSONS AND PROPERTY. ALL NEW AND EXISTING CONSTRUCTION AND MATERIALS SHALL BE PROTECTED BY THE CONTRACTOR FROM ADVERSE CONDITIONS AND DAMAGE.

1.12. SHOP DRAWING SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS:

1.12.1. CONCRETE MIX DESIGN.

1.12.2. CONCRETE REINFORCING.

1.12.3. STRUCTURAL STEEL AND MISCELLANEOUS IRON.

THE PROJECT ENGINEER OF RECORD SHALL STAMP THE SUBMITTAL AS HAVING BEEN REVIEWED OR APPROVED PRIOR TO DISTRIBUTION TO THE JOBSITE. IF THE SUBMITTAL IS IN PAPER FORM INCLUDE AT LEAST ENOUGH SETS OF PRINTS FOR THE ENGINEER TO RETAIN ONE.

1.13. ALL DEVIATIONS FROM THE CONSTRUCTION DRAWINGS MUST BE SUBMITTED TO AND APPROVED BY THE DSA AS A CCD. THE APPROVAL OF SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTORS FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS. DIMENSIONS AND QUANTITIES MAY NOT BE CHECKED BY THE ENGINEER, AND APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER ONLY REPRESENTS THE APPROVAL OF GENERAL FABRICATION.

1.14. IN ANY CONDITION WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, WHERE THERE APPEARS TO BE AN ERROR ON THE DRAWINGS, DISCREPANCY BETWEEN THE DRAWINGS AND FIELD CONDITION, OR THERE APPEARS TO BE TYPOGRAPHICAL ERRORS IN THE SPECIFICATIONS, NOTIFY THE ENGINEER FOR INSTRUCTIONS ON HOW TO PROCEED. IN THE CASE WHERE THE CONTRACTOR PROCEEDS WITH THE WORK IN QUESTION WITHOUT DIRECTION FROM THE ENGINEER, THE CONTRACTOR OR SUBCONTRACTORS SHALL BE RESPONSIBLE FOR ANY INCORRECT CONSTRUCTION.

1.15. IF TWO OR MORE DETAILS APPLYING TO THE SAME PART OF THE WORK ARE IN CONFLICT, THE MOST RESTRICTIVE CONDITION SHALL APPLY UNLESS CLARIFIED OR OTHERWISE APPROVED BY THE ENGINEER.

1.16. THE CONDITIONS AFFECTING THE WORK SHALL BE CAREFULLY EXAMINED BY THE CONTRACTOR AND EACH SUBCONTRACTOR BEFORE PROCEEDING AND SHALL REPORT TO THE ENGINEER ANY CONDITION WHICH PREVENTS THE PROPER COMPLETION OF THE WORK. FAILURE TO REPORT ANY SUCH UNSUITABLE CONDITION WILL CONSTITUTE ACCEPTANCE OF ALL CONDITIONS BY THE CONTRACTOR OR SUBCONTRACTORS.

1.17. SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER OF THE STRUCTURE AS REQUIRED BY SECTION 1701A OF THE 2022 CALIFORNIA BUILDING CODE FOR EACH OF THE ITEMS LISTED BELOW:

1.17.1. EPOXY OR EXPANSION BOLTS/REBAR/THREADED RODS IN CONCRETE OR MASONRY.

1.17.2. STRUCTURAL WELDING.

1.17.3. PLACEMENT OF REINFORCING STEEL IN CONCRETE.

1.17.4. TAKING OF TEST SPECIMENS AND PLACING OF CONCRETE.

1.18. SPECIAL INSPECTION AGENCY AND ALL SPECIAL INSPECTORS SHALL BE RECOGNIZED AND APPROVED BY THE BUILDING OFFICIAL HAVING JURISDICTION OVER THIS PROJECT.

2. FOUNDATIONS

2.1. EXCAVATIONS CAST WITHOUT FORMING IN EARTH TRENCHES SHALL BE COMPLETED AS STRAIGHT, CLEAN AND DEEP AS POSSIBLE TO THE REQUIRED SIZE AND SHAPE OF THE FOOTINGS. ALL EXCAVATIONS SHALL BE BACKFILLED WITH CONCRETE OR COMPACTED SOIL/GRAVEL. IF FOUNDATION CONCRETE IS NOT POURED DIRECTLY AGAINST UNDISTURBED SOIL DUE TO FORM WORK, THE VOIDS CREATED FROM THE FORM WORK SHALL BE BACKFILLED WITH CONCRETE OR SOIL/GRAVEL MATERIAL COMPACTED TO AT LEAST 90% OF ITS RELATIVE COMPACTION

2.2. NO GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT. USE ALLOWABLE SOIL BEARING VALUES PER TABLE 1806A.2 OF THE 2022 CALIFORNIA BUILDING CODE.

2.3. ALLOWABLE SOIL PRESSURES:

1500 LBS/SQ. FT. FOR DEAD LOADS.

1500 LBS/SQ. FT. FOR COMBINED DEAD AND LIVE LOADS

2000 LBS/SQ. FT. FOR COMBINED DEAD, LIVE AND SEISMIC LOADS

3. CONCRETE

3.1. CONCRETE MATERIALS:

3.1.1. CEMENT: ASTM C 150 TYPE II. THROUGHOUT THE PROJECT CEMENT OF THE SAME BRAND, TYPE AND SOURCE SHALL BE USED. USE LOW ALKALI CEMENT IN ANY CASE WHERE THE AGGREGATES ARE POTENTIALLY REACTIVE.

3.1.2. AGGREGATES: ASTM C 33 AND C 88. THE AGGREGATES USED SHALL BE CONSTANT AND FROM A SOURCE WITH A PROVEN HISTORY OF SUCCESSFUL USE. IF THE SOURCE IS NOT CONSTANT, 10 DAYS PRIOR NOTICE IS REQUIRED FOR APPROVAL OF NEW SOURCE AFTER RECHECK OF MIX DESIGN.

3.1.2.1. FINE AGGREGATE SHALL BE SAND FROM SOURCES APPROVED BY THE STRUCTURAL ENGINEER.

3.1.2.2. COARSE AGGREGATE SHALL BE COARSE LIMESTONE OR GRANITE AGGREGATE, FROM SOURCES APPROVED BY STRUCTURAL ENGINEER.

3.1.3. CONCRETE MIXES SHALL CONFORM TO ALL APPLICABLE CALIFORNIA BUILDING CODE AND ACI 318 REQUIREMENTS REGARDLESS OF OTHER MINIMUM REQUIREMENTS SPECIFIED HEREIN OR ON THE DRAWINGS. THE CONCRETE DESIGN MIX MUST BE COMPLETED BY A TESTING LABORATORY THAT IS APPROVED BY THE ENGINEER AND THE GOVERNING AGENCY BEFORE USE. ALL MIX DESIGNS MUST SUBMITTED TO AND APPROVED BY THE ENGINEER. THE PROPORTION OF CEMENT, AGGREGATES (FINE AND COARSE), WATER, AND GRADATION OF COMBINED AGGREGATES SHALL BE SHOWN IN THE DESIGN.

3.1.4. THE CONCRETE MIX DESIGN SHALL AT MINIMUM MEET THE REQUIREMENTS AS INDICATED BELOW. THE CEMENT CONTENT MAY BE INCREASED BEYOND THE SPECIFIED AMOUNT IF REQUIRED TO ACHIEVE THE NECESSARY COMPRESSIVE STRENGTH IN A GIVEN TIME FRAME.

SCHEDULE OF CONCRETE MIXES:

MIX NO.	LOCATION	28 DAY COMPRESSIVE STRENGTH	MIN. CEMENT CONTENT (SACKS)	SLUMP RANGE	MAX. AGGREGATE SIZE
1	FOUNDATIONS	3000 psi	5	3"−4"	1"
2	SLAB ON GRADE	3000 psi	5¾	3"−4"	1"

3.2. REINFORCING BARS SHALL BE ASTM A615, GRADE 60, TYPICAL, UNLESS OTHERWISE NOTED.

3.3. PROVIDE CONCRETE COVER PROTECTION FOR REINFORCEMENT PER THE FOLLOWING:

SURFACE	CONCRETE COVER
3.3.1. SURFACES POURED AGAINST EARTH	3"
3.3.2. FORMED SURFACES EXPOSED TO EARTH OR WEATHER:	
3.3.2.1. NO. 5 BARS, W31 OR D31 WIRE AND SMALLER	1½"
3.3.3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:	
3.3.3.1. SURFACES OF SLABS, WALLS, AND JOISTS	
3.3.3.1.1. NO. 11 BAR AND SMALLER	¾"

3.4. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A ¾" CHAMFER, UNLESS OTHERWISE SHOWN.

3.5. PRIOR TO POURING CONCRETE, RIGIDLY SECURE ALL REINFORCING, ANCHOR BOLTS, INSERTS, ETC.

3.6. HORIZONTAL REINFORCING SHALL BE SUPPORTED ON GALVANIZED CHAIRS (EXCEPT AT FOOTINGS OR SLABS−ON−GRADE MORTAR BLOCKS OR OTHER APPROVED METHOD OF SUPPORT MAY BE USED).

3.7. EDGE OF SLAB FORM WORK MAY BE REMOVED AFTER A MINIMUM OF 24 HOURS. FORM WORK FOR WALLS 4'−0" TALL OR LESS MAY BE AFTER 36 HOURS. ALL OTHER REMOVAL OF FORM WORK, SHORING AND RESHORING SCHEDULES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

3.8. HOOKS SHALL BE STANDARD HOOKS PER ACI 318 UNLESS OTHERWISE NOTED.

3.9. LAP CONTACT SPLICES, HOOK EMBEDMENT, AND DEVELOPMENT LENGTHS SHALL BE PER ACI 318 UNLESS OTHERWISE NOTED. LAP SPLICES SHALL BE STAGGERED WHERE POSSIBLE.

3.10. ALL REINFORCEMENT IS TO BE COLD BENT. HEATING OF REINFORCEMENT IS NOT ALLOWED.

3.11. FORM AND SHORING REMOVAL SHALL NOT INJURE OR OVERSTRESS COMPLETE OR PARTIALLY COMPLETE STRUCTURAL ELEMENTS. TIME OF FORM OR SHORE REMOVAL SHALL BE IN ACCORDANCE WITH ACI 347.

4. STRUCTURAL STEEL

4.1. ALL STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL CONFORM TO AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICES. AWS SPECIFICATIONS APPLY TO ALL WELDING.

4.2. STRUCTURAL STEEL SHALL BE PER THE SCHEDULE BELOW:

STEEL SPECIFICATION SCHEDULE	
STEEL	SPECIFICATION
ANGLES	ASTM A36
MISCELLANEOUS PLATES	ASTM A36
MACHINE BOLTS (M.B.)	ASTM A307
THREADED RODS	ASTM A36
HSS TUBE STEEL	ASTM A500 GRADE C
WELDING ELECTRODES	E70XX

4.2.1. DO NOT USE E70−T4 OR NS−3M ELECTRODES.

4.3. ALL STEEL SURFACES REQUIRING PAINTING SHALL BE THOROUGHLY CLEANED. ONE COAT OF RUST INHIBITIVE PAINT CONFORMING TO FEDERAL SPECIFICATION TT−P−86, TYPE III SHALL BE EVENLY AND COMPLETELY APPLIED. ANY CHIPS OR ABRASIONS SHALL BE TOUCHED UP IN THE SHOP. AFTER ERECTION APPLY ANOTHER COAT USING THE SAME PAINT.

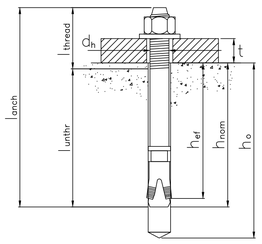
5. EXPANSION ANCHORS

5.1. EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI KWIK BOLT TZ2 PER ESR−4266 BY HILTI, INC. OR APPROVED EQUAL.

5.2. ALL SUBSTITUTIONS AS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO USE TO BE CONSIDERED FOR APPROVAL AS AN EQUAL PRODUCT. SUBSTITUTION REQUESTS ARE SUBJECT TO DSA REVIEW AND APPROVAL AS A CCD.

5.3. NOTIFY ENGINEER PRIOR TO STARTING WORK TO ARRANGE FOR SPECIAL INSPECTION. DURING THE INSTALLATION, THE SPECIAL INSPECTOR SHALL BE AT THE JOBSITE PERIODICALLY VERIFYING THE INSTALLATION IS IN COMPLIANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE ESR REPORT WHICH INCLUDES BUT IS NOT LIMITED TO HOLE CLEANING PROCEDURE, HOLE DIMENSIONS, ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR SPACING, ANCHOR EMBEDMENT, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, CONCRETE THICKNESS, EDGE DISTANCES, AND TIGHTENING TORQUE.

5.4. DIMENSIONS FOR HILTI KWIK BOLT TZ2 ARE AS FOLLOWS:



6. POWER DRIVEN PINS (POWER ACTUATED FASTENERS)

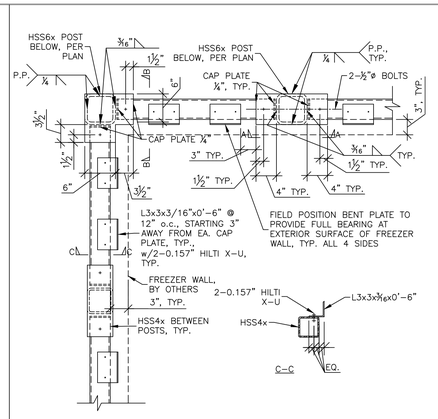
6.1. POWER DRIVEN PINS SHALL BE MANUFACTURED BY HILTI, INC., INSTALL PER ICC ESR−2269.

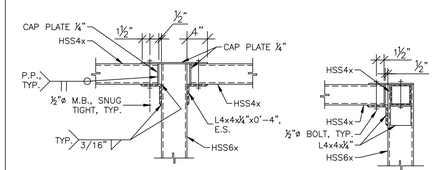
6.2. ALL SUBSTITUTIONS AS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO USE TO BE CONSIDERED FOR APPROVAL AS AN EQUAL PRODUCT.

7. INSTALLATION OF ADHESIVE ANCHORS, EXPANSION ANCHORS AND POWER DRIVEN PINS

7.1. EXERCISE CARE AND CAUTION TO AVOID DAMAGING OR CUTTING EXISTING REINFORCING BARS WHEN INSTALLING DRILLED IN ANCHORS OR POWER DRIVEN PINS INTO EXISTING NON−PRESTRESSED REINFORCED CONCRETE. LOCATE THE REINFORCEMENT WITH A NON−DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXTREME CARE AND CAUTION SHALL BE TAKEN TO AVOID CUTTING OR DAMAGING THE REINFORCEMENT DURING INSTALLATION. A MINIMUM CLEARANCE OF ONE INCH SHALL BE MAINTAINED BETWEEN THE EXISTING REINFORCING AND THE NEW DRILLED IN ANCHOR AND/OR PIN.

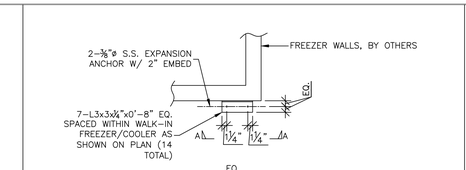
19





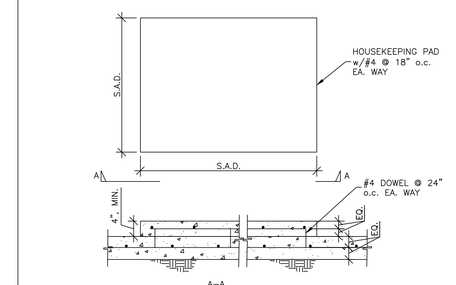
SCALE: 1" = 1'−0"

12



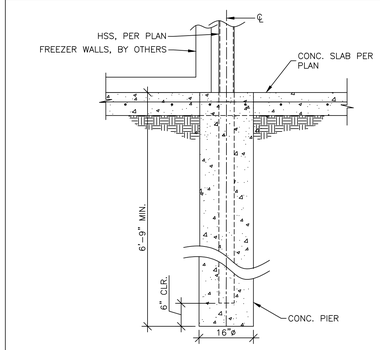
NOTES:
IF ANY ALUMINUM IS IN CONTACT w/ STEEL BRACKET, SEPARATE THE 2 ELEMENTS w/NEOPRENE WASHER

6

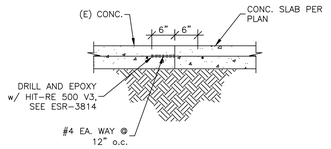


NOTES:
1. MECH UNIT AND ANCHORAGE NOT SHOWN, SEE 1/MP0.1 FOR CONDENSER DETAIL

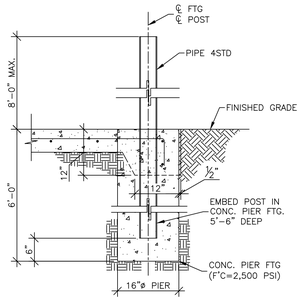
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14

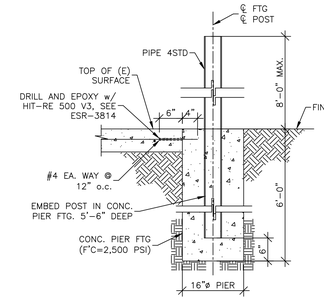


9



TYPICAL FENCE POST @ (N) SLAB

15



TYPICAL FENCE POST NEAR (E) SLAB

10

REINFORCEMENT BAR LAP SPLICE (Ls) FOR NORMAL WEIGHT CONCRETE (CLASS "B" SPLICE)

LOCATION	CONC. F'c (psi)	STEEL Fy (ksi)	BAR SIZE		
			4	5	
			"Ls" = LAP SPLICE (in)		
TOP	3000	60	37	47	
OTHER	3000	60	29	36	

NOTES:
1. LAP LENGTHS SHOWN IN THE SCHEDULE ARE CLASS B LAP SPLICES PER THE ACI 318−19, 25.5 FOR ASTM 615, GRADE 60 REBAR.
2. LAP LENGTH, Ls, IS BASED ON CASE 1 REINFORCEMENT BAR DEVELOPMENT LENGTH ld, PER ACI 318−19, 25.4.2.3. FOR OTHER CASES, REFER TO NOTES ON THE DEVELOPMENT LENGTH TABLE..
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BAR.

1

REINFORCEMENT BAR DEVELOPMENT LENGTH (ld) FOR NORMAL WEIGHT CONCRETE

LOCATION	CONC. F'c (psi)	STEEL Fy (ksi)	BAR SIZE		
			4	5	
			"ld" = DEVELOPMENT LENGTH (in)		
TOP	3000	60	29	36	
OTHER	3000	60	22	28	

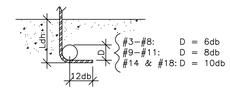
NOTES:
1. DEVELOPMENT LENGTHS SHOWN IN THE SCHEDULE ARE CASE 1 LENGTHS PER ACI 318−19, 25.4.2.3 FOR ASTM 615, GRADE 60 REBAR. THE MINIMUM CLEAR CONCRETE COVER MUST BE GREATER THAN db AND THE CLEAR SPACING OF BARS MUST BE GREATER THAN 2db. WHERE "db" IS THE NOMINAL BAR DIAMETER.
2. BARS NOT MEETING CASE 1 REQUIREMENTS SHALL BE PER ACI 318−19 SECTION 25.4.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW THE BAR.

2

REINFORCEMENT BAR DEVELOPMENT (Ldh) FOR STANDARD HOOKS IN NORMAL WEIGHT CONCRETE GENERAL USE (NOT FOR FRAME JOINTS)

CONC. F'c (psi)	STEEL Fy (ksi)	BAR SIZE		
		4	5	
		"Ldh" = DEVELOPMENT LENGTH (in)		
3000	60	8	10	

NOTES:
1. SIDE COVER MUST BE GREATER THAN OR EQUAL TO 2½"
2. END COVER MUST BE GREATER THAN OR EQUAL TO 2".
3. db = BAR DIAMETER



STANDARD 90° END HOOK

NOTE: 180° AND 135° HOOKS SIMILAR

3

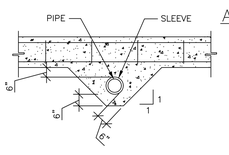
TYPICAL EXPANSION BOLT TEST VALUES

TYPICAL EXPANSION BOLTS ARE HILTI KWIK−BOLTS TZ2 SS 304

DIAM.	MIN. EMBEDMENT	STEEL SHEAR STRENGTH	STEEL TENSION STRENGTH	TORQUE TEST LOAD
⅜"	2"	4885#	6180#	30 FT−LBS

NOTES:
ALLOWABLE LOAD WITH F'c=3000 PSI (NORMAL WEIGHT CONCRETE)
HILTI KWIK BOLT TZ2 SHALL COMPLY WITH ICC−ES ESR−4266.

4



AT BOTTOM REBAR

NOTES:
1. SLEEVE I.D. 2" LARGER THAN PIPE O.D. OR BELL O.D.
2. SEAL VOID BETWEEN PIPE AND SLEEVE W/ ELASTIC WATERPROOF MATERIAL, TYPICAL

TYPICAL PIPE SLEEVE FOR (E) UTILITIES

5

Approvals

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/17/2025

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Engineer

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www.UniversalStructuralEngineers.com

Project Name

PRELIMINARY PHASE

No.	Date	Revisions
1	7/15/2024	DEH Submittal
2	11/22/2024	DSA BACKCHECK
3		ADDENDUM 1

THIS SHEET IS PART OF A COMPLETE DOCUMENT SET. IT SHALL BE USED IN CONJUNCTION WITH THE COMPLETE SET AND NOT AS AN INDIVIDUAL SHEET.

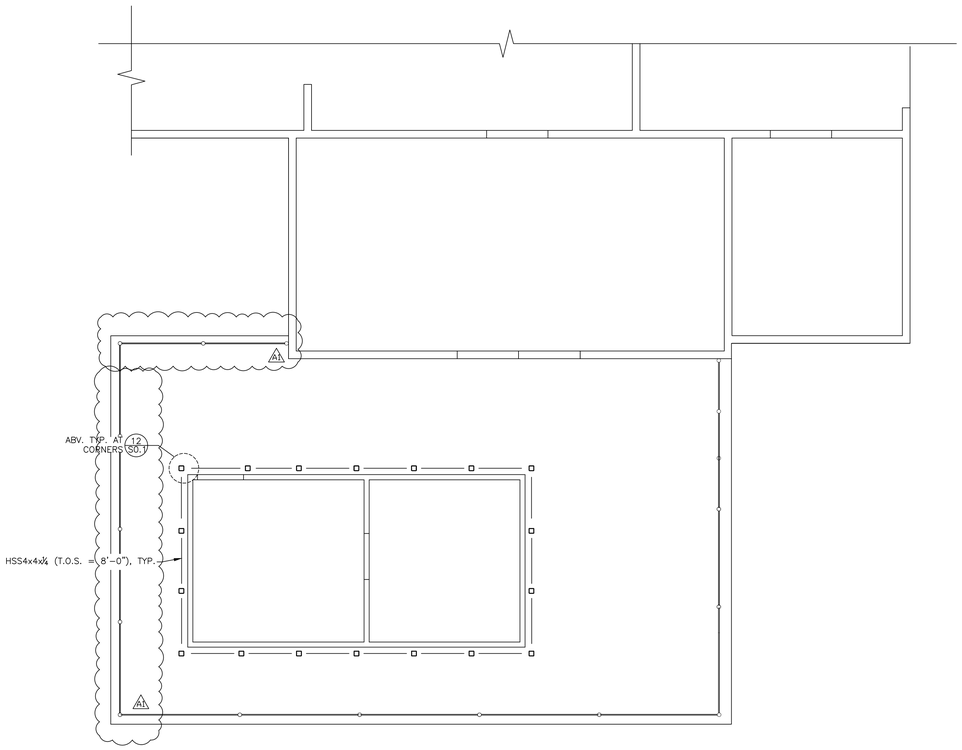
DRAWING TITLE

GENERAL NOTES & DETAILS

SHEET NO. S0.1 ADDENDUM 001
SCALE: ¾" = 1'−0", U.O.N.
JOB NO. 2023145

DATE 09/18/2024
DRAFTER M.M./K.T.
CHECKED BY K.T.O.

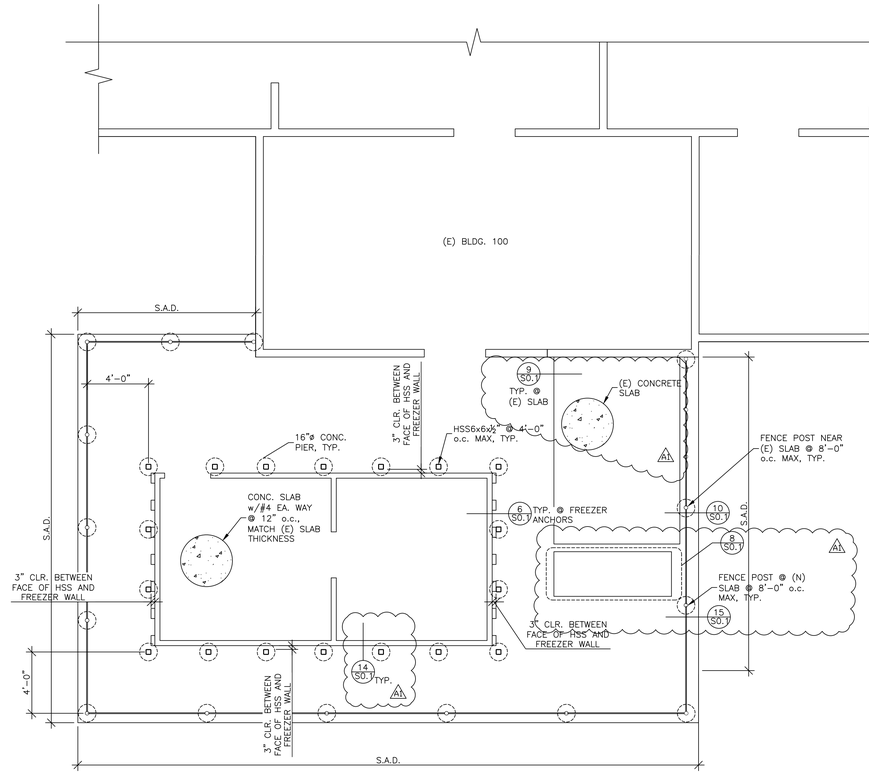
DSA APPL.# 01-121669
PROJECT NO. 236



FREEZER ROOF FRAMING PLAN

SCALE: ¼" = 1'-0"

NOTES:
SEE S0.1 FOR GENERAL NOTES.



FREEZER FOUNDATION PLAN

SCALE: ¼" = 1'-0"

NOTES:
1. SEE S0.1 FOR GENERAL NOTES.
2. PROTECTED ZONES ARE REQUIRED AT ALL COLUMNS PER 13/S0.1

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/17/2025

Approvals

DSA STAMP

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PRELIMINARY PHASE

No.	Date	Revisions
1	7/15/2024	DEH Submittal
2	11/22/2024	DSA BACKCHECK
A1		ADDENDUM 1

THIS SHEET IS PART OF A COMPLETE DOCUMENT SET. IT SHALL BE USED IN CONJUNCTION WITH THE COMPLETE SET AND NOT AS AN INDIVIDUAL SHEET.

DRAWING TITLE

FREEZER FOUNDATION & ROOF FRAMING PLANS

SHEET NO.	SCALE: AS NOTED	JOB NO.
S1.0 ADDENDUM 001		2023145

DATE	DRAFTER	CHECKED BY
09/18/2024	M.M./K.T.	K.T.O.

DSA APPL.#	PROJECT NO.
01-121669	236

SPECIFICATIONS

SPECIFICATIONS (SECTION 16000, ELECTRICAL)

PART 1 – GENERAL

1.1 GENERAL TERMS AND CONDITIONS

A. "LANDLORD" HEREIN INDICATES THE BUILDING OWNER OR HIS REPRESENTATIVE. "OWNER" HEREIN INDICATES THE TENANT OR THE TENANT'S REPRESENTATIVE. "CONTRACTOR" HEREIN INDICATES THE ELECTRICAL CONTRACTOR (EC).

B. SECTION 16000 OUTLINES ELECTRICAL INSTALLATION OF SUBJECT PROJECT. THIS CONTRACTOR IS DIRECTED TO REFER TO OTHER SECTIONS, WHICH INCLUDES THE ARCHITECTURAL, MECHANICAL AND PLUMBING PLANS AND SPECIFICATIONS AND LANDLORDS' REQUIREMENTS RELATIVE TO ADDITIONAL TECHNICAL AND LEGAL REQUIREMENTS.

C. CONTRACTOR TO PAY ALL FEES, CHARGES, MATERIALS, TOOLS, TRANSPORTATION, EMPLOYEE WAGES, ALL SUB–CONTRACTORS, IF ANY, ETC. IN A TIMELY MANNER. OBTAIN INSURANCES, LICENSES, PERMITS, ETC. AS REQUIRED BY LOCAL, STATE AND FEDERAL LAWS – ADDITIONAL INSURANCE COVERAGES SHALL BE AS REQUIRED BY THE LANDLORD AND OWNER.

D. PROVIDE A FORMAL LIEN RELEASE TO THE LANDLORD AND COPY TO OWNER. CONTRACTOR AND HIS SUB–CONTRACTORS, IF ANY, SHALL HOLD LANDLORD, OWNER, ARCHITECT AND ENGINEERS HARMLESS RELATIVE TO HIS PERFORMANCE OF THE ELECTRICAL WORK.

1.2 COOPERATION, COORDINATION AND SITE VERIFICATION

A. IT IS ESSENTIAL FOR THIS CONTRACTOR TO BE FAMILIAR WITH THE LANDLORD'S AND CITY'S REQUIREMENTS AND HAVE THE ABILITY TO COOPERATE AND COORDINATE HIS WORK WITH OTHER TRADES, THE LANDLORD, OWNER AND THE CITY INSPECTOR.

B. HE SHALL HAVE A MINIMUM WORKING KNOWLEDGE OF ALL APPLICABLE CODES AND REQUIREMENTS. FURTHER, HE SHALL HAVE A BASIC WORKING KNOWLEDGE WITH RESPECT TO FEEDER SIZING, VOLTAGE DROP, BASIC DEVICE PROTECTION, ETC., IN ORDER TO INTELLIGENTLY VERIFY EXISTING FIELD CONDITIONS PRIOR TO BID AND POINT OUT DEFICIENCIES TO THE GENERAL CONTRACTOR.

C. BEFORE SUBMITTING HIS BID, CONTRACTOR SHALL VISIT SITE AND CONTACT CITY, LANDLORD AND ALL UTILITIES TO VERIFY LOCATION, SIZE, DEPTH AND OPERATING CHARACTERISTICS OF ALL POINTS OF CONNECTION AND SERVICES. EXAMINE THE SITE AND PREMISES PRIOR TO SUBMISSION OF BID.

D. LIST ALL EXTRAS AND EXCEPTIONS ON HIS BID AS ALLOWANCE FOR FURTHER EXPENSES INCURRED DUE TO FAILURE TO EXAMINE THE EXISTING SITE CONDITIONS INCLUDING LANDLORD'S ELECTRICAL SERVICE EQUIPMENT AND DISTRIBUTION TO THIS JOB SITE MAY NOT BE PERMITTED.

E. THE PLANS INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL LAYOUT, TIGHT CONDITIONS MUST BE WORKED OUT IN ADVANCE PRIOR TO MAJOR PURCHASES OF EQUIPMENT AND ROUGH–IN WORK. DO NOT SCALE FROM THIS SET OF PLANS.

F. WHEN APPROVAL IS GIVEN FOR USE OF EQUIPMENT DIFFERING FROM THAT SHOWN ON DRAWINGS IN REGARD TO FOUNDATIONS, SPACE OF PIPING, DUCTWORK, WIRING, INSULATION, ETC., CHANGES REQUIRED TO ACCOMMODATE THE DIFFERENCES SHALL BE ACCOMPLISHED AT NO COST TO OWNER.

G. THE LOCATION OF ALL EQUIPMENT ON THESE DRAWINGS IS SHOWN DIAGRAMMATICALLY. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OTHER TRADES FOR CONDUIT ROUGH–IN AND EQUIPMENT LOCATION.

1.3 SCOPE OF WORK

THE WORK INCLUDED IN THIS SECTION OF THE SPECIFICATIONS SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND EQUIPMENT TO COMPLETELY INSTALL ALL WORK SHOWN ON THE FURNISHED PLANS AND SPECIFIED HEREIN, INCLUDING, BUT NOT LIMITED TO, CONNECTIONS TO ALL EQUIPMENT ITEMS, POWER, LIGHTING, COMMUNICATIONS, CONTROL, AND ALARM. ALL INSTALLATIONS TO BE ACCOMPLISHED TO THE SATISFACTION OF THE CITY INSPECTOR, LANDLORD AND OWNER IN ACCORDANCE WITH THESE SPECIFICATIONS AND PLANS. FULL COMPLIANCE WITH TENANT'S "HANDBOOK AND GUIDELINES".

1.4 CODES, PERMITS AND INSPECTION

1. THE INSTALLATION SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL GOVERNMENTS OR THEIR AUTHORITIES HAVING LAWFUL JURISDICTIONS APPLYING TO ELECTRICAL INSTALLATIONS, WITH COMPLIANCE TO:
   NATIONAL ELECTRICAL CODE (NEC) (CEC)
   NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
   AMERICANS WITH DISABILITIES ACT (ADA)

WHERE CONFLICT OCCURS BETWEEN CODES, THE INSTALLATION THAT OFFERS THE MOST STRINGENT REQUIREMENTS AND PROTECTION SHALL BE ENFORCED.

2. UNLESS OTHERWISE INDICATED HEREIN AND ON THE ELECTRICAL PLANS, ALL MATERIALS SHALL BE NEW AND SHALL CONFORM TO:

   NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION (NEMA)
   NATIONAL ELECTRICAL CODE (NEC)
   UNDERWRITER'S LABORATORIES, INC. (UL)
   CALIFORNIA ELECTRICAL CODE (CEC)

ALL EQUIPMENT AND DEVICES (INCLUDING ALL LIGHT FIXTURES, PANELBOARDS, DISCONNECTS, ETC.) SHALL HAVE THE MANUFACTURER'S NAME PRINTED THEREON AND UNDERWRITER'S LABORATORY LISTED. THE SELECTION OF MATERIALS AND EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS AND PLANS.

1.5 WORKMANSHIP

A. ALL WORK SHALL BE EXECUTED IN A FIRST CLASS WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED, AND SHALL INCLUDE MODIFICATION OF THE EXISTING SERVICE LOAD CENTERS AS REQUIRED, TIME CLOCKS, OUTLETS, MOTORS, ETC., INCLUDING ALL CONDUITS, RACEWAYS, WIRING, JUNCTION BOXES, LOAD CENTERS, SWITCHES, SUPPORTS AND ALL OTHER NECESSARY APPURTENANCES REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM, INCLUDING THE HANGING AND LAMPING OF ALL FIXTURES AND TRANSFORMER(S), EXCEPT AS OTHERWISE NOTED.

B. ANY MATERIAL ITEMS OF WORK NOT SHOWN ON THE DRAWINGS, MENTIONED IN THE SPECIFICATIONS OR VICE–VERSA, OR ANY ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION SHALL BE INCLUDED IN CONTRACTOR'S SCOPE OF WORK AND SUCH ITEMS SHALL NOT BE A CAUSE EXTRA WORK OR EXTRA COST TO THE OWNER.

C. THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING, AS PERMITTED BY THE LANDLORD, NECESSARY FOR THE INSTALLATION OF HIS WORK UNDER THIS CONTRACT, AND THE BUILDING SHALL BE LEFT IN AS GOOD CONDITION AS FOUND. IN CASES WHERE THE LANDLORD REQUIRES THE USE OF HIS OWN CONTRACTOR FOR SPECIFIC WORK AT THE EXPENSE OF THE CONTRACTOR, THIS CONTRACTOR SHALL COORDINATE WITH THE LANDLORD'S CONTRACTOR FULLY.

D. CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS AND CEILINGS.

E. PROVIDE STRUCTURAL STEEL FRAMEWORK AND HANGING RODS WITH BRACES AND ACCESSORIES WHERE REQUIRED TO HOLD EQUIPMENT IN FINAL POSITION. PROVIDE STEEL SHAPES AND FRAMES TO SUPPORT WALL MOUNTED EQUIPMENT WHERE NORMAL WALL STRENGTH MAY BE INADEQUATE.

F. ELECTRICAL DEVICES, MOTOR STARTERS, DISCONNECT SWITCHES, ETC., SHALL BE SUPPORTED INDEPENDENT OF AND ISOLATED FROM EQUIPMENT VIBRATION.

G. THE LOCATION OF ALL EQUIPMENT ON THESE DRAWINGS IS SHOWN DIAGRAMMATICALLY. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OTHER TRADES FOR CONDUIT ROUGH–IN AND EQUIPMENT LOCATION.

PART 2 – PRODUCTS AND EXECUTION

1.1 ELECTRICAL MATERIALS

A. EACH BIDDER SHALL SUBMIT WITH HIS PROPOSAL A LIST OF MANUFACTURER'S NAMES AND CATALOG NUMBERS OF MATERIALS TO BE USED ON THIS PROJECT.

B. THE MANUFACTURER'S CATALOG NUMBERS GIVEN IN THE ELECTRICAL DRAWINGS ARE USED TO INDICATE THE CLASS AND TYPE OF EQUIPMENT DESIRED. BIDDER SHALL NOTE PARTICULARLY THAT HIS BID SHALL BE ON THE BASIS OF THE LIST OF MATERIALS AND EQUIPMENT AS SPECIFIED.

C. OTHER MANUFACTURERS AND THEIR CATALOG NUMBERS MAY BE SUBMITTED AT TIME OF BIDDING, BUT ONLY AS VOLUNTARY ALTERNATES AND MUST MEET THE LETTER AND INTENT OF THE DRAWINGS, SPECIFICATIONS AND MUST BE APPROVED BY THE OWNER IN WRITING.

D. THE OWNER RESERVES THE RIGHT TO REJECT SUBMISSION OF MATERIAL OR WORK THAT, IN HIS OPINION, DOES NOT MEET REQUIREMENTS AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS.

1.2 CONDUIT AND FITTINGS

A. CONDUIT SHALL BE CONSTRUED AS ELECTRICAL RACEWAYS AND SHALL CONFORM

1. CONCEALED IN HUNG CEILINGS AND PARTITIONS – EMT.
2. EXPOSED ON BUILDING EXTERIOR OR SUBJECTED TO PHYSICAL DAMAGE – RIGID GALVANIZED STEEL OR INTERMEDIATE STEEL CONDUIT.
3. CONNECTION TO MOTORS, HVAC PACKAGES OR ANY EQUIPMENT SUBJECTED TO VIBRATION – FLEX, 4' MAXIMUM. (LIQUID TIGHT FOR EXTERIOR).
4. FLEX NOT EXCEEDING 4' FOR LIGHT FIXTURES.
5. UNDERGROUND, UNDERSLAB OR IN SLAB – SCHEDULE 40 PVC.
6. ROMEX AND BX NOT PERMITTED.
7. PVC ABOVE GRADE NOT PERMITTED.
8. LIQUID TIGHT CONNECTIONS AND DEVICES IN FOOD PREPARATION AREAS.

B. ALL RACEWAYS SHALL BE RUN CONCEALED IN CEILING, WALLS OR FLOOR SLABS. EXPOSED RACEWAYS SHALL BE LIMITED TO EQUIPMENT IN NON PUBLIC AREAS.

1.3 WIRE AND CONNECTORS

A. ALL CONDUCTORS SUPPLIED BY THIS CONTRACTOR SHALL BE COPPER (EXCEPT OTHERWISE INDICATED), WITH TYPE THW, THWN INSULATION OR THHN INSULATION.

B. WHERE SERVICE MAIN FEEDER CONDUCTORS ARE FURNISHED BY THE ELECTRICAL UTILITY AS ALUMINUM, USE APPROVED BIMETAL CONNECTORS AND LUGS FOR PROPER TERMINATION OF CONDUCTORS. TORQUE TO MANUFACTURER'S SPECIFICATIONS. COPPER CONDUCTORS SHALL BE USED WHENEVER POSSIBLE.

C. ALL SPLICE CONNECTORS SHALL BE 3M SCOTCHLOK OR EQUAL.

1.4 GROUNDING

A. ELECTRICAL SYSTEM GROUNDING AND INDIVIDUAL EQUIPMENT GROUNDING SHALL IN ALL INSTANCES CONFORM TO THE MINIMUM REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, LOCAL CODES OR REGULATIONS, AND REGULATIONS OF THE SERVING UTILITIES.

B. PROVIDE REQUIRED SERVICE AND EQUIPMENT GROUNDING SYSTEMS. ALL DEVICES SHALL BE BONDED TO THE CONDUIT SYSTEM EXCEPT CLEAN POWER SYSTEM AS NOTED HEREIN.

C. UFER TYPE GROUND IS ACCEPTABLE PROVIDED SLAB IS IN DIRECT CONTACT WITH EARTH WITHOUT VAPOR BARRIER WITH MINIMUM OF 20' OF #4 CONTINUOUS RE–BAR AND IF ACCEPTABLE TO THE LOCAL INSPECTOR.

1.5 PANELBOARDS

A. ALL PANELBOARDS ARE TO BE UL LABELED. ALL PANELBOARDS SHALL HAVE HINGED DOORS AND COMPLETE DIRECTORIES. IDENTIFY AND LABELING OF ALL CIRCUIT BREAKERS. PROVIDE ARC FLASH WARNING LABEL PER NEC 110.16.

B. PANELBOARDS SHALL BE PROVIDED WITH A TYPE–WRITTEN CIRCUIT DIRECTORY TO COMPLY WITH SEC. 408.4, CEC

C. THE NEUTRAL BUS IN ALL PANELBOARDS ARE TO BE ISOLATED FROM THE GROUNDING BUS.

D. PANELBOARDS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NEC AND UL STANDARDS AND BEAR APPROPRIATE LABELS.

E. MULTIPOLE LOADS SHALL BE PROTECTED BY MULTIPOLE CIRCUIT BREAKERS HAVING COMMON TRIP AND SINGLE HANDLE. HANDLE TIES AND TROUGH CLIPS OR PINS ARE UNACCEPTABLE.

F. PROVIDE CIRCUIT BREAKER LOCKS FOR NIGHT LIGHTS AND EXIT/EMERGENCY LIGHTING.

G. INSTALLATION OF PANELBOARDS SHALL COMPLY BUT NOT LIMITED TO NEC ART. 384–4.

H. PANELBOARD TO HAVE BOLT–ON BREAKERS.

I. CIRCUIT BREAKERS SHALL BE RATED FOR AVAILABLE SHORT CIRCUIT CURRENT.

1.6 ELECTRICAL SERVICE SYSTEM

METERING SERVICE SWITCHBOARD:

A. THE COMPONENTS OF THE ASSEMBLY SHALL BE DESIGNED, MANUFACTURED, TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE STANDARDS OF THE IEEE, ANSI, NEMA, P.G. & E., EUSER AND LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

B. APPLICABLE SECTION(S) AND COMPONENTS SHALL BEAR THE UL SEAL AND/OR LABEL. AS TO ENCLOSURE, BUSSING, WIRING, CLEARANCES AND DEVICES.

C. EQUIPMENT SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, ITE–SIEMENS, SQUARE D, IEM, WESTINGHOUSE OR CHALLENGER DIVISION WITH WESTINGHOUSE DEVICES.

D. THE TOTAL ASSEMBLED METERING SERVICE SWITCHBOARD SHALL BE INTERIOR TYPE AS NOTED METAL–ENCLOSED, DEAD FRONT, FLOOR STANDING SECTIONS ASSEMBLED TO FORM A MECHANICALLY SOUND ELECTRICALLY COORDINATED UNIT.

E. UNDERGROUND PULL SECTION, OVER CURRENT DEVICES AND, COMMERCIAL METER SOCKETS.

F. UNDERGROUND PULL SECTION SHALL BE SEALABLE (SEALS PROVIDED BY UTILITY COMPANY).

G. MAIN HORIZONTAL CROSS BUS SHALL EXTEND FOR FULL LENGTH OF SWITCHBOARDS SECTIONS SERVED (THREE PHASE AND NEUTRAL). THE BUS SHALL BE SILVERPLATED COPPER OR TIN PLATED ALUMINUM, 100R RATED FOR THE MAIN OVER CURRENT DEVICE WITH PROVISIONS FOR FUTURE EXTENSION. THE CURRENT DENSITY OF THE COPPER BUS BARS SHALL NOT EXCEED 1000 AMPERES PER SQUARE INCH CROSS–SECTION AND FOR ALUMINUM BUS NOT TO EXCEED 750 AMPERES PER SQUARE INCH.

1. BUSSING AND EQUIPMENT SHALL BE BRACED TO WITHSTAND STRESSES RESULTING FROM MAXIMUM SHORT–CIRCUIT AMPS AVAILABLE. BRACED FOR 50,000 AMPS

H. THE SWITCHBOARD ASSEMBLY COMPLETELY SELF–SUPPORTING, OF THE REQUIRED NUMBER OF VERTICAL SECTIONS BOLTED TOGETHER TO FORM ONE CONTINUOUS SWITCHBOARD 90 INCHES HIGH SIDES, TOP AND REAR COVER SHALL BE CODE GAUGE STEEL BOLTED TO THE STRUCTURE. THE FRAME STRUCTURAL MEMBER SHALL BE DIE–FORMED 12–GAUGE STEEL BOLTED TOGETHER AND REINFORCED AT THE EXTERNAL CORNERS WITH RUGGED GUSSETS INTERNAL AND EXTERNAL TO THE STRUCTURAL MEMBERS. THE SWITCHBOARD FRAME IS TO BE SUITABLE FOR USE AS FLOOR SILLS IN INDOOR INSTALLATIONS.

1. AFTER FABRICATION, EACH COMPONENT SHALL BE SANDED SMOOTH TO REMOVE ALL ROUGH EDGES, SCRATCHES, AND IRREGULARITIES, AND THEN SHALL BE IMMERSED IN A SUITABLE CLEANING AND RUST INHABITING PHOSPHATIZING SOLUTION. A HARD, OVEN–BAKED GRAY, ANSI #49 OR #61, ENAMEL SHALL BE APPLIED.

I. SUBMIT SHOP DRAWINGS CONCURRENTLY TO ARCHITECT AND PACIFIC GAS AND ELECTRIC REPRESENTATIVE FOR THEIR METERING DEPARTMENT TO REVIEW.

J. ENGRAVED NAMEPLATES: SECURE EACH WITH TWO CADMIUM PLATED SCREWS.

1. 3/8–INCH WHITE LETTERS ON BLACK PHENOLIC BACKGROUND. SECURE EACH WITH TWO CADMIUM PLATED SCREWS.

K. EACH SWITCHBOARD DEVICE SHALL BE LABELED. PROVIDE TENANT ADDRESS ADJACENT TO METER SOCKET AND EACH OVERCURRENT DEVICE.

1.7. LIGHTING FIXTURES

A. ALL FIXTURES SHALL BE ADEQUATELY SUPPORTED, LEVEL AND ALIGNED. COORDINATE LOCATION WITH THE ARCHITECT.

B. LIGHTING FIXTURES SHALL BE MOUNTED AT CEILING, AND AS INDICATED ON DRAWINGS, EXPANSIVE ANCHOR TYPE INSERTS, ACKERMAN–JOHNSON OR AN APPROVED EQUAL BY THE OWNER, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL FIXTURES SHALL BE SECURED TO BUILDING STRUCTURE – "CADDY" CLIPS ON "T" BAR AS PRIMARY SUPPORT FOR LAY–IN FIXTURES NOT PERMITTED FOR EXAMPLE.

C. PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR A COMPLETE INSTALLATION. PROVIDE LAMPS, BALLASTS AND SPECIAL CONTROLS.

D. LIGHT FIXTURE IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.

E. LED LUMINAIRES SHALL BE TESTED AND PASSED IES LM–79 AND IES LM–80. PROVIDE MINIMUM L70 LUMEN MAINTENANCE VALUE OF 50,000 HOURS.

F. LED DRIVERS TO HAVE A POWER FACTOR GREATER THAN OR EQUAL TO 0.90 AT FULL INPUT POWER. MAXIMUM TOTAL HARMONIC DISTORTION (THD) LESS THAN 20% AT FULL POWER. WITHSTANDS CATEGORY A SURGES OF 4KV WITHOUT IMPAIRMENT OF PERFORMANCE

1.8 OUTLETS

A. ALL OUTLETS ARE TO BE INSTALLED AS LOCATED ON PLANS, AND CONDUCTOR TERMINALS AT EACH WIRING OUTLET SHALL BE LEFT NOT LESS THAN 8" LONG WITH IN THE OUTLET.

B. ALL DEVICES, INCLUDING BUT NOT LIMITED TO, SWITCHES, JUNCTION BOXES, OUTLETS TO BE INSTALLED FLUSHED TO FINISHED SURFACES. COORDINATE WITH ARCHITECT PRIOR TO ROUGH–IN IN SPECIAL SURFACE AREAS.

C. IN AREAS WHERE OUTLET BOXES ARE SURFACE MOUNTED, COVERS SHALL BE STEEL. IN GENERAL, SURFACE MOUNTED DEVICES ARE NOT PERMITTED IN PUBLIC AND WORKING AREAS.

D. ALL EXTERIOR OUTLETS INCLUDING OUTLETS FOR HVAC EQUIPMENT AND OUTLETS WITHIN 6 FEET FROM SINK SHALL BE PROTECTED VIA GROUND–FAULT CIRCUIT–INTERRUPTERS (GFCI BREAKERS) PER NEC.

E. ALL RECEPTACLES SHALL BE SPECIFICATION GRADE, AS MANUFACTURED BY PASS AND SEYMOUR, HUBBELL, SLATER OR APPROVED EQUAL.

F. ALL CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. NO SPLICES SHALL BE MADE.

G. WEATHERPROOF COVER OF OUTLETS TO COMPLY WITH SEC 406.8(B)(1) CEC

1.9 SWITCHES

A. ALL SWITCHES FOR LIGHTING CIRCUITS SHALL BE FLUSH MOUNTED.

B. SWITCHES SHALL BE 20 AMP HUBBELL 1221–1 SINGLE POLE OR 1223–1 THREE WAY. DUPLEX RECEPTACLES SHALL BE 20 AMP HUBBELL 5362–1. PASS AND SEYMOUR, ARROW–HART AND BRYANT SHALL BE CONSIDERED AS EQUAL.

C. PROVIDE LOCAL SWITCHES AS SHOWN; HOWEVER, BEFORE INSTALLATION THE CONTRACTOR SHALL INSPECT THE ARCHITECTURAL DRAWINGS AND LOCATE ALL SWITCHES ON THE STRIKE SIDE OF THE DOOR. ALL SWITCHES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY PASS AND SEYMOUR, HUBBELL, SLATER OR APPROVED EQUAL.

2.0 STARTERS AND DISCONNECTS

A. STARTERS, LOAD CENTERS, LINE SWITCHES AND SIMILAR APPARATUS SHALL BE MOUNTED SECURELY TO WALLS, COLUMNS, ETC. LINE SWITCHES AND STARTERS SHALL BE MOUNTED NEAR MOTORS, AT UNIFORM HEIGHTS ABOVE FLOOR UNLESS OTHERWISE NOTED ON PLAN. INDIVIDUAL LIGHT SWITCHES, LIGHTING, DISCONNECT, ETC. –NOT MORE THAN 48" ABOVE FINISHED GRADE. SWITCHES SHALL BE ITE HEAVY DUTY TYPE IN NEMA 1 ENCLOSURE OR EQUAL BY SQUARE D OR ARROW–HART. SWITCHES SHALL BE QUICK–MAKE QUICK–BREAK, EXTERNALLY OPERATED AND INTERLOCKED, FULL LOAD BREAK AND NEMA HORSEPOWER RATED.

B. FURNISH AND INSTALL ALL WIRING FOR MOTORS, STARTERS, AND PUSH BUTTONS IN ADDITION TO ALL OTHER POWER AND CONTROL WIRING, ALL AS SHOWN ON PLANS AND CONNECTION DIAGRAMS. HOWEVER, MOTORS WILL BE INSTALLED BY OTHERS. IN CASES WHERE THE CAPACITY OR RATING OF THE EQUIPMENT BEING FURNISHED IS BASED ON THE RATING OF EQUIPMENT BEING FURNISHED BY OTHERS, SUCH RATINGS SHALL BE CONFIRMED BEFORE PURCHASING THE EQUIPMENT. USE EQUIPMENT, INCLUDING RECEPTACLES, DISCONNECTS, ETC., RATED NEMA 3R FOR OUTDOORS, SCULLERY AND KITCHEN LOCATIONS. PUSH–BUTTON AND PILOT DEVICES SHALL BE INDUSTRIAL GRADE, OIL TIGHT.

C. IDENTIFY DISCONNECT SWITCHES WITH LAMINATED PHENOLIC NAMEPLATES WITH 1/4" MINIMUM HEIGHT LETTERS.

D. ALL CONNECTIONS COMPLETE, PROVIDE STARTERS, PULL BOXES, DISCONNECTS AS REQUIRED.

2.1 LIGHTING CONTROL EQUIPMENT:
PROVIDE TITLE 24 COMPLIANT PROGRAMMABLE ELECTRONIC TIME SWITCH, CIRCUIT CONTROLLER, 365 DAY CAPACITY, WITH ADJUSTABLE ON/OFF TIMES FOR EACH CIRCUIT CONTROLLED, 4 HOUR BATTERY BACKUP; PARAGON, WATT STOPPER, DOUGLAS CONTROLS OR EQUAL

2.2 TELEPHONE

A. TELEPHONE, ALARM AND SIGNAL SYSTEM OUTLET BOXES SHALL BE STANDARD OUTLET BOX TYPE WHERE ONLY ONE CONDUIT ENTERS SAME, UNLESS OTHERWISE SPECIFIED OR INDICATED ON DRAWINGS: WHERE TWO OR MORE CONDUITS ENTER, OUTLET BOX SHALL BE 4–11/16" WITH SUITABLE ADAPTER COVER RING EXCEPT WHERE OTHERWISE INDICATED ON DRAWINGS. VERIFY WITH TELEPHONE COMPANY AND OWNER FOR LOCATION OF ALL SERVICE.

B. FURNISH AND INSTALL EMPTY CONDUIT, OUTLETS AND BACKBOARD TO ACCOMMODATE TELEPHONE COMPANY WIRING AND EQUIPMENT AS SHOWN ON DRAWINGS. WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH TELEPHONE COMPANY REQUIREMENTS.

2.3 LOAD BALANCE

A. THE CONNECTED LOADS SHALL BE BALANCED AT THE END OF THE PROJECT SO THAT A VARIATION OF AMPERAGE AMONG THE PHASES OF LESS THAN 10% IS PRESENT. BALANCE LOAD AT END OF PROJECT WITH ALL NORMAL OPERATED EQUIPMENT ON (HVAC, LIGHTS, KITCHEN LOADS, ETC.).

2.4 ROOF FLASHING

A. USE APPROVED ROOF FLASHING FOR CONDUITS PENETRATING THROUGH ROOF STRUCTURE. ROUTE CONDUITS DIRECTLY TO DEVICES FROM CEILING AREA WHENEVER POSSIBLE. DO NOT ROUGH–IN UNLESS THIS CONTRACTOR HAS COORDINATED WITH THE LANDLORD FOR HIS REQUIREMENTS.

2.5 TESTING

A. PROVIDE TEST EQUIPMENT AND CONDUCT NECESSARY TESTING TO DETERMINE THE CONFORMITY WITH THE SPECIFICATIONS AND THE TOTAL BUILDING SYSTEM REQUIREMENTS. THIS TEST MUST BE MADE UNDER THE OBSERVATION OF THE OWNER'S REPRESENTATIVE AND THE CITY ELECTRICAL INSPECTOR. ANY DEFECTS MUST BE CORRECTED IMMEDIATELY.

2.6 EMERGENCY AND EXIT LIGHTING SYSTEM

A. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO OBTAIN REQUIREMENTS AND APPROVAL FROM LOCAL CODE AUTHORITIES, ON EMERGENCY AND EXIT LIGHTING.

B. EMERGENCY BATTERY–PACK LIGHTS: IN GENERAL BATTERIES SHALL BE REQUIRED WHEN BUILDING DOES NOT PROVIDE EMERGENCY GENERATOR LIFE SAFETY POWER FOR TENANT SPACE. EMERGENCY LIGHTS SHALL BE CONNECTED TO BUILDING EMERGENCY GENERATOR SYSTEM WHEN AVAILABLE.

2.7 CLEAN UP

A. THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSE BY HIS WORK, AND AT THE COMPLETION OF THE WORK, SHALL REMOVE HIS RUBBISH, TOOLS, EQUIPMENT AND SURPLUS MATERIALS; AND SHALL LEAVE HIS WORK CLEAN AND READY FOR USE.

SYMBOLS

- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING OR WALL.
- BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND.
- BRANCH CIRCUIT HOMERUN TO PANEL.
- CONDUIT, 1/2"– 2 # 12 MINIMUM. HASHMARKS INDICATE NUMBER OF WIRES AND SIZE OTHER THAN # 12.
- FLASHED ROOF JACK
- FLEXIBLE CONDUIT
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION, CAP AND MARK LOCATION.
- –S– SECONDARY RACEWAY DOWN 24" MINIMUM PER LOCAL UTILITY CO. REQUIREMENTS SEE SINGLE LINE U.O.N.
- –T– TELEPHONE SERVICE RACEWAY, 1–4"C. – (UON) DOWN 24" MINIMUM PER LOCAL UTILITY CO. REQUIREMENTS.
- M METER SOCKET PER POWER COMPANY REQUIREMENTS
- (M) METER SOCKET AND PROVISIONS FOR CT'S PER POWER COMPANY REQUIREMENTS
- LANDING LUGS OR STUDS PER POWER COMPANY REQUIREMENTS.
- CIRCUIT BREAKER
- PRECAST ELECTRICAL SPLICE PULLBOX–13"X24"X16" DEEP MINIMUM (SIZE PER NEC), WITH HEAVY DUTY TRAFFIC COVER WHERE EXPOSED TO VEHICLES. LOCATE SO AS NOT TO AFFECT PLANTING.
- A LIGHTING FIXTURE TAG. SEE FIXTURE SCHEDULE.
- 1 SHEET NOTE
- 1 / E0.1 DETAIL TAG. REFER TO DETAIL 1 ON SHEET NUMBER E0.1.
- WALL MOUNTED LIGHT FIXTURE AND BOX. SEE ARCH ELEVATIONS FOR MOUNTING HEIGHT.
- RECESSED LED AND BOX
- SHADED FIXTURE IS ON NIGHTLIGHT CIRCUIT.
- CEILING OR PENDANT MOUNTED LED AND BOX.
- RECESSED DOWNLIGHT AND BOX
- D° DIMMER AND BOX. LOWER CASE LETTER INDICATES CIRCUIT OR LAMPS CONTROLLED BY SWITCH, +48" T.O.D.
- OCCUPANCY SENSOR AND BOX, CEILING, WALL MOUNTED, +48" T.O.D. (UON). LOWER CASE LETTER INDICATES CIRCUIT OR FIXTURE CONTROLLED BY DETECTOR. AIM ADJUSTABLE SENSORS PER DIRECTIONAL ARROWS WHERE INDICATED. D = DIMMER
- S° DAYLIGHT SENSOR LOWER CASE LETTER INDICATES LAMPS CONTROLLED.
- DUPLEX RECEPTACLE 20A, 125V, 3WG, NEMA 5–20R, +15" B.O.D. (UON). (WP= WEATHERPROOF)
- DUPLEX RECEPTACLE 1P20A WITH GROUNDFAULT CIRCUIT INTERRUPTER, +15" B.O.D. (UON). WP WEATHER RESISTANT TYPE W/ EXTRA DUTY IN–USE COVER
- FOURPLEX RECEPTACLES (2) NEMA 5–20R, +15" B.O.D. (UON).
- J JUNCTION OR OUTLET BOX – MOUNT ABOVE CEILING WITH BLANK COVER. (F= FLUSH IN FINISHED CEILING)
- WALL MOUNTED JUNCTION OR OUTLET BOX WITH BLANK COVER, HEIGHT AS INDICATED. (WP = WEATHERPROOF)
- TENANT SIGN J–BOX SURFACE MOUNTED JUNCTION BOX AND COVER PLATE FOR SIGN. LOCATE IN ACCESSIBLE LOCATION. SEE EXTERIOR ELEVATION.
- SPECIAL USE RECEPTACLE VERIFY WITH EQUIPMENT MANUFACTURER +15" B.O.D. (UON)
- COMBINATION TELEPHONE AND DATA OUTLET IN WALL, 15" MIN. TO BOTTOM OF BOX AFF (UON) WITH 3/4"C AND PULLCORD UP TO ABOVE ACCESSIBLE CEILING SPACE. (ALL TELEPHONE AND DATA CABLINGS ARE EXCLUDED)
- FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSES (UON). WP WHERE ON ROOF.
- COMBINATION STARTER AND FUSIBLE DISCONNECT SWITCH.
- (M) MOTOR OUTLET AND FLEX CONNECTION TO MOTOR.
- FLEXIBLE CONDUIT WITH CONNECTION TO EQUIPMENT.
- (S) DUCT SMOKE DETECTOR FURNISHED WITH HVAC UNIT.
- PANELBOARD, 120/208V, 3 PHASE, 4W U.O.N., SURFACE.
- MAIN SWITCHBOARD
- TELEPHONE BACKBOARD 4' x 8' x 3/4" PLYWOOD

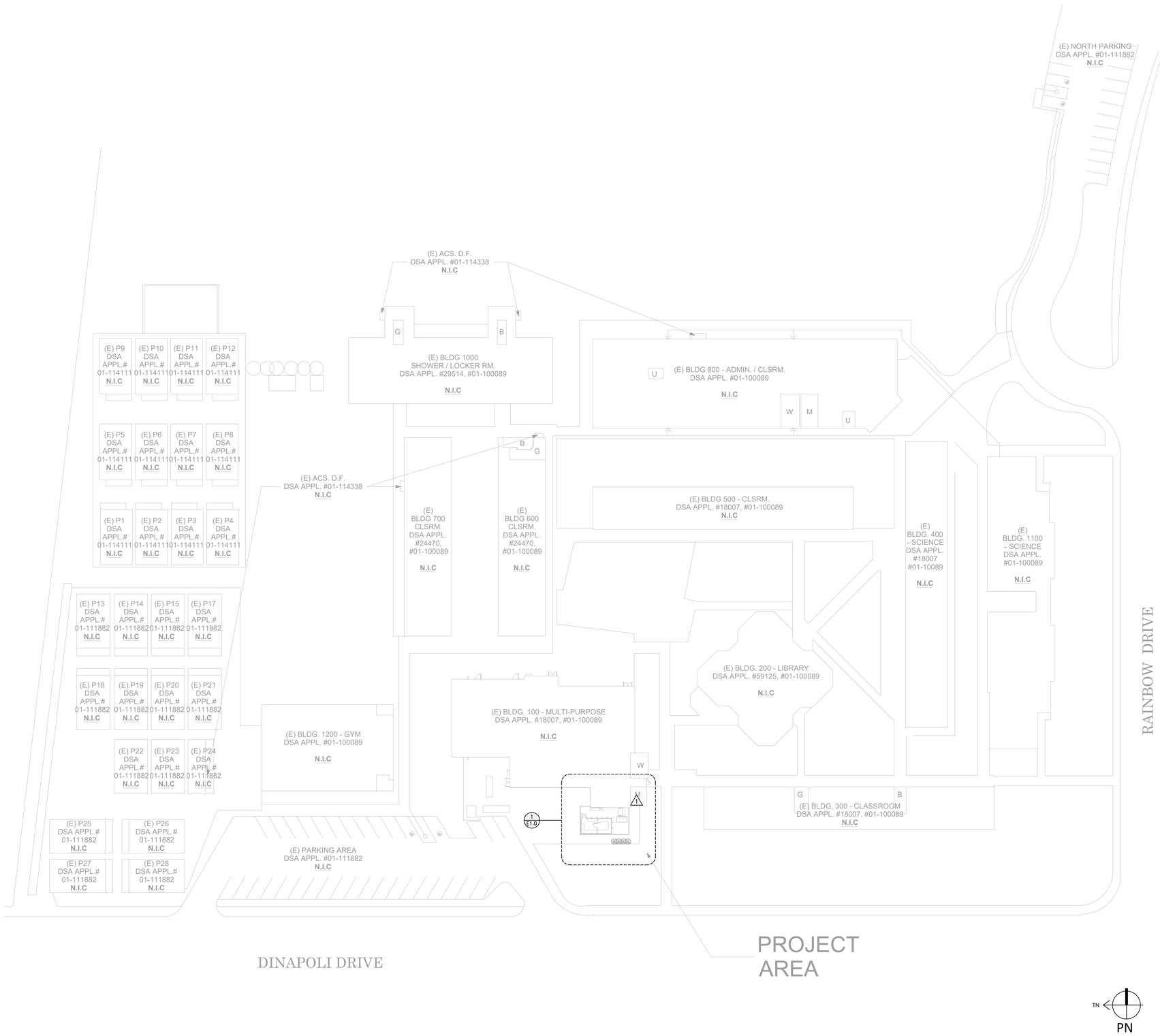
AFF	ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE.
AFG	ABOVE FINISHED GRADE
NIC	NOT IN THIS CONTRACT
NL	NIGHTLIGHT
NTS	NOT TO SCALE
PROVIDE	FURNISH, INSTALLED AND CONNECT.
SAD	SEE ARCHITECTURAL DRAWINGS
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
GFCI	GROUNDFAULT CIRCUIT INTERRUPTER
(E)	EXISTING TO REMAIN
(N)	NEW
(ERR)	EXISTING TO BE REMOVED AND RELOCATED
(ERRP)	EXISTING TO BE REMOVED AND REPLACED

APPLICABLE CODES

2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA ENERGY CODE
CITY OF SAN JOSE MUNICIPAL CODE

COMMISSIONING AND ACCEPTANCE TESTING

THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL THIRD PARTY AGENT OR CONSULTANT, CERTIFIED TO PERFORM THE MEP SYSTEMS COMMISSIONING AND TO PROVIDE A REPORT FOR ALL FUNCTIONAL PERFORMANCE TESTS COMPLETED AS PART OF THE ACCEPTANCE TEST PROCESS. THE LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIANS SHALL BE CERTIFIED THRU AN APPROVED TRAINING PROGR



1 ELECTRICAL SITE PLAN
1" = 30'-0"

Approvals

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 1/23/2025

STAMP

CUPERTINO UNION SCHOOL DISTRICT

10301 Vista Drive
Cupertino, CA 95014
(408) 252-3000

School Name and Address

Miller Middle School
6151 Rainbow Dr, San Jose, CA 95129

Architect

Engineer

REGISTERED PROFESSIONAL ENGINEER
Olivia Rocha
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Exp: 6/30/25
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23195/BR

Project Name

COOLER & FREEZER INSTALLATION

No.	Date	Revisions
1	7/15/2024	DEH Submittal
2	10/8/2024	DWG v2
3	11/22/2024	DWG v3

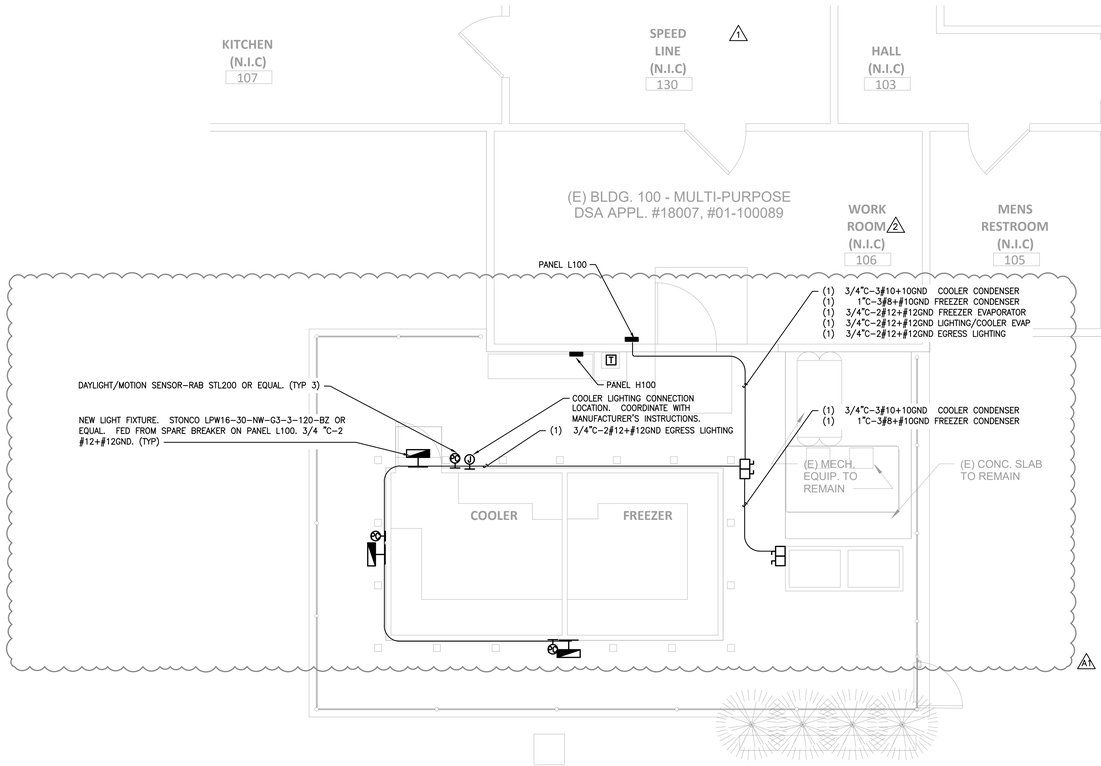
THIS SHEET IS PART OF A COMPLETE DOCUMENT SET. IT SHALL BE USED IN CONJUNCTION WITH THE COMPLETE SET AND NOT AS AN INDIVIDUAL SHEET.

DRAWING TITLE
ELECTRICAL SITE PLAN

SHEET NO. E0.1
JOB NO. 23017-CMS

DATE 11/22/2024 | DRAFTER | CHECKED BY

DSA APPL.# 01-121669 | PROJECT NO. 23195



1 ELECTRICAL ENLARGED PLAN

1/4" = 1'-0"

CIRCUITING NOTES

1. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBER. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISC., FITTINGS, ETC, FOR A COMPLETE AND OPERABLE SYSTEM INCLUDING HOME RUN (WETHER SHOWN OR NOT). BRANCH INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND LATEST CALIFORNIA ELECTRICAL CODE (2022) AND N.E.C PROVIDE #10 WIRE FOR 120V CIRCUIT RUNS OVER 125. /1
2. UNDERGROUND AND OVERHEAD ROUTING OF BRANCH CIRCUITS ARE GENERALLY NOT SHOWN. HOWEVER, THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR COMPLETE WIRING SYSTEMS INCLUDING HOMERUNS, RESTORATION OF ALL NEW OR EXISTING SURFACES REQUIRING SAWCUTTING, PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED. VERIFY ALL APPLICABLE SEALANT SPECIFICATION WITH ARCHITECT.
3. ALL ELECTRICAL LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS SHALL BE INSTALLED AT LEAST 6" OFF FLOOR.
4. PROVIDE EXTRA UNSWITCHED HOT WIRE FOR EXIT AND EMERGENCY FIXTURE.

GENERAL NOTES

A. EXISTING CONDITIONS WERE BASED ON INFORMATION OBTAINED FROM SITE VISITS AND/OR AS-BUILT DRAWINGS AND MAY NOT REFLECT EXACT CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. NOTIFY ARCHITECT/ENGINEER FOR ANY DISCREPANCIES BETWEEN ACTUAL EXISTING CONDITION AND THE DRAWINGS.

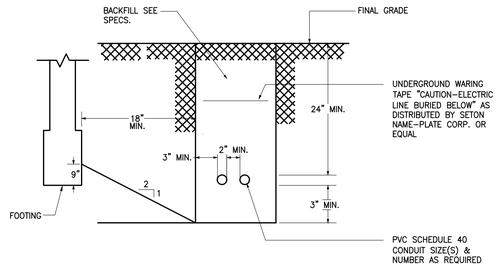
B. ROUTE CONDUIT UNDER CONCRETE TO DISCONNECT LOCATION. INSTALL TO KEEP CONDUIT PROTECTED FROM PHYSICAL DAMAGE. SEE DETAIL 2 THIS SHEET.

PNL L100

120/208 VOLTS, 3 PHASE, 4 WIRE & GROUND
TYPE: BOLT-ON BUS: 100A
MINIMUM CB INTERRUPTING CAPACITY: 10,000 SYM. AMPS

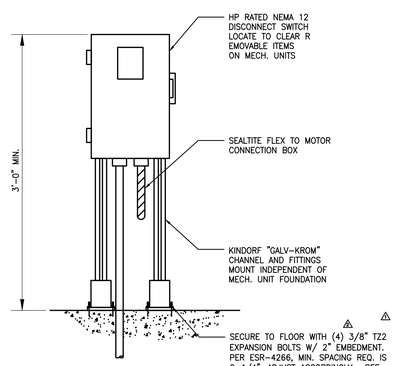
MAIN: MLO [ ] MCB [X]
MOUNTING: SURFACE [X] FLUSH [ ]

CKT NO	LOAD DESCRIPTION AND LOCATION	LTG	REC	BRKR P	BRKR T	NTS	PHASE KVA LOAD A	PHASE KVA LOAD B	PHASE KVA LOAD C	NTS	BRKR P	BRKR T	REC	LTG	LOAD DESCRIPTION AND LOCATION	CKT NO
1	SF-A (ROOF)			1	20		0.5	0.7			1	20			Recept. Outside	2
3	RECEPT. (ROOF)			1	20			0.4	0.7		1	20			Recept. Multiuse	4
5	SPARE TO AC-A			1	20				0.5	0.7	1	20			Recept. Multiuse	6
7	RECEPT. MULTI			1	20		0.7	0.7			1	20			Recept. Multiuse	8
9	COILING DOOR			1	20			0.5	0.5		1	20			Speedline Equip	10
11	(N)Freezer Condenser			3	35				3.5	0.5	1	20			Speedline Equip	12
13	-						3.5	0.5			1	20			Speedline Equip	14
15	-							3.5	0.5		1	20			Speedline Equip	16
17									2.1	0.5	1	20			Speedline Equip	18
19	(N) Cooler Condenser			3	15		0.8	0.5			1	20			Speedline Equip	20
21	-							0.8	0.5		1	20			Speedline Equip	22
23	-								0.8	0.0	1	20			SPARE	24
25	(N) Freezer Evaporator			2	20		1.1	0.0			1	20			SPARE	26
27	-							1.1	0.0		1	20			SPARE	28
29	(N) Lighting Circuit Freezer/Cooler Cooler Evap			1	20				0.3	0.0	1	20			SPARE	30
31	SPARE			1	20		0.0	0.0			1	20			SPARE	32
33	SPARE			1	20			0.0	0.0		1	20			SPARE	34
35	SPARE			1	20				0.0	0.0	1	20			SPARE	36
37	SPARE			1	20		0.0	0.0			1	20			SPARE	38
39	SPARE			1	20			0.0	0.0		1	20			SPARE	40
41	SPARE			1	20				0.0	0.0	1	20			SPARE	42
	ISOLATED GROUND BUS						9.1	8.5	9.0		CONNECTED KVA PER PHASE					
	200% RATED NEUTRAL			SUB TOTALS			75.8	71.0	74.7		CONNECTED AMPS PER PHASE					
				TOTAL CONNECTED LOAD			26.3	KVA								
				TOTAL DEMAND LOAD			26.3	KVA @ [2.6	(LML) KVA x 25%] =		29.9	KVA=	80.3	AMPS		



2 TRENCH DETAIL

NTS



3 TYPICAL DISCONNECT DETAIL

NTS

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SS ☑ FLS ☑ ACS ☑
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Approvals

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23195/BR

Project Name

COOLER & FREEZER INSTALLATION

No.	Date	Revisions
1	7/15/2024	DEH Submittal
2	10/8/2024	DWG v2
3	11/22/2024	DWG v3
A1	2/21/2025	ADD 001

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DRAWING TITLE

ELECTRICAL ENLARGED PLAN AND PANEL SCHEDULE

SHEET NO.	JOB NO.
E1.0	23017-CMS
ADDENDUM 001	

DATE	DRAFTER	CHECKED BY
11/22/2024		

DSA APPL.#	PROJECT NO.
01-121669	23195

GENERAL NOTES

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

PLUMBING LEGEND

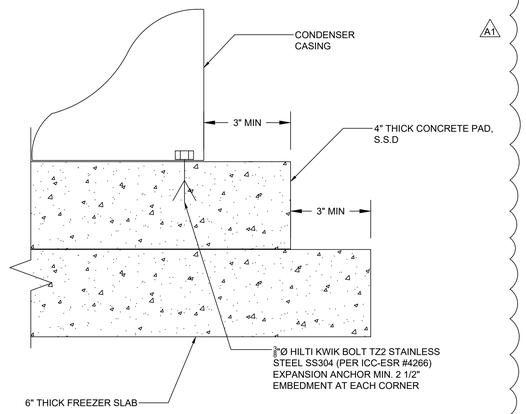
SYMBOL	ABBREVIATION	DESCRIPTION
—— —— ——	W	SANITARY WASTE/SEWER PIPING
—— GW ——	GW	GREASE WASTE PIPING
—— SD ——	SD	STORM DRAIN PIPING
—— OFD ——	OFD	OVERFLOW DRAIN PIPING
– – – – – –	V	WASTE/SANITARY VENT PIPING
—— GV ——	GV	GREASE VENT PIPING
		DEMO FIXTURE/PIPING
—— —— ——	(E)W	EXISTING SANITARY SEWER PIPING
– – – – – –	(E)V	EXISTING SANITARY VENT PIPING
—— – ——	CW	DOMESTIC COLD WATER PIPING
—— – – ——	HW	DOMESTIC HOT WATER PIPING
—— – – – ——	HWR	DOMESTIC HOT WATER RETURN PIPING
—— – ——	(E)CW	EXISTING COLD WATER PIPING
—— – – ——	(E)HW	EXISTING HOT WATER PIPING
—— – – – ——	(E)HWR	EXISTING HOT WATER RETURN PIPING
—— G ——	G	NATURAL GAS PIPING
—— MPG ——	MPG	MEDIUM PRESSURE NATURAL GAS PIPING
—— G ——	(E)G	EXISTING NATURAL GAS PIPING
—— MPG ——	(E)MPG	EXISTING MEDIUM PRESSURE NATURAL GAS PIPING
—— CD ——	CD	CONDENSATE DRAIN PIPING
C		PIPE GOING DOWN
O		PIPE GOING UP
		TEE
Φ ◉	FCO	FLOOR CLEANOUT/CLEANOUT TO GRADE
∝		P-TRAP
	POC	POINT OF CONNECTION
	WCO	WALL CLEANOUT
		PIPE CAP
—┼	HB	HOSE BIBB
⋈	SOV	SHUT-OFF VALVE
⋈	SOVAP	SHUT-OFF VALVE BEHIND ACCESS PANEL
⋈	SOVYB	SHUT-OFF VALVE IN YARD BOX
		PLUG VALVE
⋈	BV	BALANCING VALVE/CIRCUIT SETTER
		GAS COCK VALVE
		PRESSURE REDUCING VALVE
		CHECK VALVE
	FD	FLOOR DRAIN
	FS	FLOOR SINK
XX-X		EQUIPMENT OR FIXTURE
	CONT.	CONTINUED/CONTINUATION
	DFM	DISTANCE FROM METER
	FR.	FROM
	BEL.	BELOW
	DN.	DOWN
	VTR	VENT THROUGH ROOF
	AP	ACCESS DOOR
	NIC	NOT IN CONTRACT
	REF.	REFERENCE
	S.A.D.	SEE ARCHITECTURAL DRAWINGS
	S.M.D.	SEE MECHANICAL DRAWINGS
	S.C.D.	SEE CIVIL DRAWINGS
	S.S.D.	SEE STRUCTURAL DRAWINGS
	SF	SQUARE FEET

LIST OF APPLICABLE CODES

LIST OF CODES AND STANDARDS MODEL CODE EDITIONS EFFECTIVE JANUARY 1, 2023
2022 CA BUILDING CODE TITLE 24 PART 2 VOLUME #1 AND #2
2022 CA ELECTRICAL CODE TITLE 24 PART 3
2022 CA MECHANICAL CODE TITLE 24 PART 4
2022 CA PLUMBING CODE TITLE 24 PART 5
2022 CA FIRE CODE TITLE 24 PART 9
2022 CA BUILDING STANDARDS TITLE 24 PART 9

OUTDOOR CONDENSER

TAG	"THERMALRITE" MODEL	MCA/MOCP	ELECT V/ϕ/HZ	WEIGHT (LBS)	ANCHORAGE DETAIL (DETAIL #/SHEET #)
CU-1, CU-2	LCH0035LBACZC2463	37.5 / 45	208/1/60	232	1 / MP0.1



1 CONDENSER MOUNTING
NOT TO SCALE

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/17/2025

Approvals

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Architect

Engineer
REGISTERED PROFESSIONAL ENGINEER JOHN CHUNG No. 904214 Signed: 3/12/25 MECHANICAL STATE OF CALIFORNIA

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Project Name
COOLER & FREEZER INSTALLATION

DSA SUBMITTAL 07/19/2024

No.	Date	Revisions
1	7/15/2024	DEH SUBMITTAL
A1	2/18/2025	ADDENDUM 001

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DRAWING TITLE
PLUMBING: GENERAL NOTES AND LEGEND AND MECHANICAL SCHEDULE AND DETAILS

SHEET NO. MP0.1
ADDENDUM 001
JOB NO. 23017-CMS

DATE 09/18/2024 | DRAFTER SW | CHECKED BY JC

DSA APPL.# ~~03-121669~~ | PROJECT NO. 236

PLUMBING SPECIFICATIONS

1.0 GENERAL

DESCRIPTION OF WORK: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND PAY ALL FEES REQUIRED TO COMPLETE ALL PLUMBING WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING:

SANITARY SEWER SYSTEMS
CONDENSATE PIPES
INSULATION
EXCAVATION, TRENCHING, AND BACKFILLING FOR WORK UNDER THIS SECTION
MISCELLANEOUS STEELWORK (FLOOR SLEEVES, SLOTS, INSERTS, PLATES, SUPPORTS, HANGERS, ETC.)

INCORPORATED DOCUMENTS: PUBLISHED SPECIFICATIONS, STANDARDS, TESTS OR RECOMMENDED METHODS OF TRADE, INDUSTRY OR GOVERNMENTAL ORGANIZATIONS APPLY TO WORK OF THIS SECTION.

REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS

PERMITS: OBTAIN AND PAY FOR ALL FEES, PERMITS AND INSPECTIONS. DELIVER ALL CERTIFICATES OF INSPECTION TO ARCHITECT.

LEGAL REQUIREMENTS AND STANDARDS: COMPLY WITH APPLICABLE SECTIONS OF STATE AND LOCAL CODES, LAWS, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. SUCH REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE REQUIREMENTS FOR THE WORK. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY CALL FOR MATERIALS OR CONSTRUCTION OF BETTER QUALITY OR LARGER SIZE THAN REQUIRED BY CODES, LAWS, RULES, AND REGULATIONS.

SERVICE CONNECTIONS: ARRANGE AND PAY ALL COSTS FOR UTILITIES REQUIRED TO COMPLETE ALL WORK OF THIS DIVISION. CONNECTION TO ALL UTILITY OR ON-SITE SERVICES, PAYMENT OF SERVICE CHARGES, AND PROVISION FOR INSTALLATION OF TEMPORARY UTILITIES SHALL BE INCLUDED.

LIABILITY OF SUBSTITUTIONS:

PERFORMANCE OF SUBSTITUTIONS MUST BE EQUAL TO THE ITEM SPECIFIED. SHOULD THE SUBSTITUTED ITEM FAIL TO PERFORM ACCORDING TO THE SPECIFICATIONS, REPLACE WITH THE ORIGINALLY SPECIFIED ITEM. NO REQUEST FOR EXTRA COMPENSATION SHALL BE GRANTED.

THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY CHANGES RESULTING FROM APPROVED SUBSTITUTIONS.

2.0 PRODUCTS

BEYOND MATERIAL AND EQUIPMENT SPECIFIED, ALSO PROVIDE INCIDENTAL MATERIALS REQUIRED TO EFFECT COMPLETE INSTALLATION. SUCH INCIDENTAL MATERIALS INCLUDE SOLDER, TAPES, CAULKING, MASTIC, GASKETS, AND SIMILAR ITEMS.

SEALS: FILL ALL CRACKS AND OPEN SPACE BETWEEN FIXTURES AND WALL OR FLOOR WITH NON-ELASTOMERIC SEALER.

FINISH ON EXPOSED PIPES, TRAP, FITTINGS, VALVES, STOPS, ESCUTCHEONS, AND ACCESSORIES SHALL BE CHROME-PLATED BRASS. EXPOSED SHALL INCLUDE ITEMS LOCATED UNDER OPEN COUNTERS AND INSIDE CABINETS WITH DOORS.

BACKING: FOR WALL HUNG LAVATORIES USE JAY R SMITH 0723 CONCEALED ARMS AND PROVIDE 1/4" X 6" WIDE STEEL FLAT PLATE ATTACHED TO BACKING PLATE, DRILLED AND TAPPED TO MATCH FIXTURE HANGER. ATTACH WITH (4) 3/8" X 1 1/4" STEEL BOLTS AND NUTS.

ACCESS DOORS/PANELS

PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND BY THE DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING LOCATIONS: ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, UNIONS, ETC. FURNISH FIRE-RATED DOORS WHEN LOCATED IN RATED CONSTRUCTION.

ACCEPTABLE MANUFACTURERS: KARP OR EQUAL.

12" X 12" MIN. FOR WALLS; 24" X 24" FOR CEILINGS.

CONDENSATE PIPING

TYPE "M" COPPER TUBING, HARD DRAWN WITH WROUGHT COPPER SWEAT TYPE FITTINGS AND 95-5 LEAD FREE SOLDER. PROVIDE INLINE NEUTRALIZER AT HIGH EFFICIENCY CONDENSING EQUIPMENT. INSULATE WITH 1/2" ARMAFLEX.

FITTINGS, SOLDER & UNIONS

FITTINGS: WROUGHT COPPER OR CAST BRASS SOLDER SWEAT TYPE.

SEALS: USE 95-5 LEAD-FREE SOLDER FOR COPPER PIPING.

UNIONS: SHALL BE INSTALLED AT THE INLET AND OUTLET OF ALL APPARATUS AND EQUIPMENT, AT ALL VALVES, AND ELSEWHERE AS REQUIRED TO FACILITATE REMOVAL OF VALVES AND EQUIPMENT.

DIELECTRIC UNIONS: CONNECTION BETWEEN INCOMPATIBLE MATERIALS, SUCH AS DISSIMILAR METALS, ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE. DIELECTRIC UNION ISOLATOR FOR CONNECTION PIPING OR NON-COMPATIBLE MATERIALS SHALL BE OF STANDARD COMMERCIAL DESIGN WITH THREADED CONNECTIONS.

PIPE ISOLATION

ALL PIPING WHICH IS NOT ISOLATED FROM CONTACT WITH THE BUILDING BY ITS INSULATION SHALL BE INSTALLED WITH A MANUFACTURED TYPE ISOLATOR. ACCEPTABLE MANUFACTURERS: SEMCO, TRISOLATOR, OR EQUAL.

PROVIDE PIPE AND SOUND ISOLATION FOR ALL PIPING THROUGH WALLS. ACCEPTABLE MANUFACTURERS: ACOUSTOPLUMB BY LSP PRODUCTS, HOLDRITE SILENCER BY HUBBARD ENTERPRISES, OR EQUAL.

PIPE SUPPORTS

FOR PIPING 1/2", 3/4" AND 1", FURNISH AND INSTALL THE ACOUSTOPLUMB SYSTEM AS MANUFACTURED BY LSP SPECIALTY PRODUCTS COMPANY.

NO METALLIC PIPES SHALL HAVE METAL-TO-METAL CONTACT WITH HANGERS, CLAMPS, BRACKETS OR ANY OTHER PIPE SUPPORT, OR BE OTHERWISE IN DIRECT CONTACT WITH ANY PART OF THE BUILDING.

WIRE FOR HANGING OR STRAPPING PIPES NOT PERMITTED. SUPPORT EACH RUN OF PIPE INDEPENDENTLY FROM ALL OTHER PIPING.
FIXTURE TRAPS SHALL BE REMOVABLE WITH UNION OR EQUAL CONNECTION.
EQUAL.

3.0 EXECUTION

JOB CONDITIONS: REPAIR OR REPLACE, AS DIRECTED BY ARCHITECT, MATERIALS AND PARTS OF PREMISES WHICH BECOME DAMAGED BECAUSE OF INSTALLATION OF WORK OF THIS DIVISION. REMOVE REPLACED PARTS FROM PREMISES.

PROVIDE CARPENTRY, CUTTING, PATCHING, AND CORE DRILLING REQUIRED FOR INSTALLATION OF MATERIAL AND EQUIPMENT SPECIFIED IN THIS DIVISION. DO NOT CUT, CORE OR DRILL STRUCTURAL MEMBERS WITHOUT CONSENT OF STRUCTURAL ENGINEER.

GENERAL PIPING INSTALLATION

CONCEAL ALL PIPING WITHIN FINISHED SPACES, UNLESS OTHERWISE NOTED. INSTALL ALL EXPOSED PIPING PARALLEL TO, OR AT RIGHT ANGLES WITH, BUILDING WALLS AND INSTALL TIGHT TO WALLS OR CEILINGS, UNLESS OTHERWISE NOTED.

VERIFY ALL INVERTS IN PITCHED LINES BEFORE STARTING WORK.

ROUGH-IN WORK: PROCEED AS RAPIDLY AS THE CONSTRUCTION WILL PERMIT. WORK SHALL BE COMPLETED, TESTED AND APPROVED BEFORE BEING ENCLOSED.

THOROUGHLY CLEAN PIPING BEFORE INSTALLATION. CAP ALL PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS MADE.

REAM PIPE ENDS TO REMOVE BURRS, CAREFULLY INSPECT EACH LENGTH OF PIPE, AND REMOVE ALL OBSTRUCTIONS PRIOR TO FABRICATION.

PITCH: INSTALL HORIZONTAL SANITARY AND DRAIN PIPING AT A UNIFORM GRADE OF ONE-QUARTER INCH PER FOOT UNLESS OTHERWISE NOTED.

EQUIPMENT BY OTHERS: FOR ROUGH-INS AND FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS, ASCERTAIN EXACT SIZES, SERVICES AND LOCATIONS BEFORE STARTING WORK. VERIFY ACCURACY OF WORK SHOWN BEFORE STARTING WORK. CONTRACTOR RESPONSIBLE FOR PROVIDING PROPER INSTALLATION.

POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EMBEDS, BEAM CLAMPS, OR DRILLED FASTENERS WILL BE REQUIRED UNLESS OTHERWISE NOTED. SEISMIC BRACING SHALL BE REQUIRED FOR ALL PIPING, SEE SMACNA "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS".

PROPERLY SUPPORT ALL MATERIALS, EQUIPMENT AND APPARATUS. ALL HANGERS AND SUPPORTS SHALL HAVE MINIMUM SAFETY FACTOR OF FIVE (5), BASED ON ULTIMATE TENSILE OR COMPRESSIVE STRENGTH, AS APPLICABLE, OF MATERIAL USED. PROVIDE BRACING TO PREVENT LATERAL MOTION OF SUSPEND MATERIALS.

ALL PIPING ON ROOF SHALL BE ANCHORED TO 4"X4" REDWOOD BLOCKING WITH PIPE STRAPS. BLOCKING SHALL BE SET IN MASTIC AT 6'-0" ON CENTER.

PROVIDE PIPE ISOLATION FOR ALL PIPING THROUGH WALLS AND FLOORS. NO PIPING SHALL HAVE DIRECT CONTACT WITH WALLS, CEILINGS, FLOORS, PIPE SUPPORTS, OR HANGERS.

ROOF OPENING

FLASH EACH PIPE EXTENDING THROUGH ROOF WITH PROPERLY SIZED LEAD FLASHING ASSEMBLY. MAKE WATERTIGHT.

TESTING AND ADJUSTING

TEST ALL SYSTEMS IN ACCORDANCE WITH THE GOVERNING PLUMBING CODE AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.

PROVIDE ALL EQUIPMENT REQUIRED FOR TESTING, INCLUDING FITTINGS FOR ADDITIONAL OPERATING.

AFTER THE INSPECTION HAS BEEN APPROVED, OR PORTIONS THEREOF, CERTIFY IN WRITING THE TIME, DATE, NAME, AND TITLE OF THE PERSON REVIEWING THE TEST. INCLUDE THE DESCRIPTION OF WHAT PORTION OF THE SYSTEM HAS BEEN APPROVED.

A COMPLETE RECORD SHALL BE MAINTAINED OF ALL TESTING THAT HAS BEEN APPROVED, AND SHALL BE MADE AVAILABLE AT THE JOB SITE.

UPON COMPLETION OF THE WORK, ALL RECORDS AND CERTIFICATIONS APPROVING TESTING REQUIREMENTS SHALL BE SUBMITTED TO THE ARCHITECT BEFORE FINAL PAYMENT IS MADE.

DEFECTIVE WORK OR MATERIAL SHALL BE REPLACED OR REPAIRED, AS NECESSARY, AND THE INSPECTION AND TEST REPEATED. REPAIRS SHALL BE MADE WITH NEW MATERIALS. NO CAULKING OF SCREWED JOINTS OR HOLES WILL BE ACCEPTABLE.

IDENTIFICATION

IDENTIFY ALL PIPING WITH BRADY PERMA-CODE, SETON, OR APPROVED EQUAL, SELF STICKING PIPE MARKERS CONSISTING OF PIPE CONTENT WORDING AND ARROW INDICATING DIRECTION OF FLOW, PER ANSI STANDARD A13.1.

ARROW AND WORDING ARE TWO SEPARATE MARKERS WHICH SHALL BE PLACED IMMEDIATELY ADJACENT TO EACH OTHER.

MARKERS SHALL BE LOCATED 20 FT. APART MAXIMUM ON HORIZONTAL RUNS. THEY SHALL OCCUR WHERE A PIPE ENTERS AND EXITS A CONCEALED SPACE; AT EVERY BRANCH AND RISER TAKEOFF; WITHIN 1 FT. OF EACH VALVE & CONTROL DEVICE; AT EVERY CHANGE IN DIRECTIONAL FLOW; NEAR MAJOR EQUIPMENT ITEMS & OTHER POINTS OF ORIGINATION & TERMINATION.

IDENTIFY ALL CAPPED PIPING AND VALVES WITH 1-1/2" DIAMETER BRASS DISC STAMPED WITH 3/8" HIGH LETTERS SHOWING TYPE OF SERVICE AND VALVE NUMBER. TAGS SHALL BE ATTACHED WITH BRASS CHAIN.

EXCAVATION, TRENCHING AND BACKFILLING

SAFETY REQUIREMENTS: DO ALL SHORING AND PUMPING NECESSARY TO PROTECT EXCAVATION AND SAFETY OF WORKMEN. COMPLY WITH ALL SAFETY REQUIREMENTS OF ALL APPLICABLE AUTHORITIES. PROTECT EXCAVATIONS WITH BARRICADES AS REQUIRED BY APPLICABLE SAFETY REGULATION.

EXCAVATION: PERFORM TRENCHING, SHORING, AND BACKFILLING REQUIRED FOR PROPER LAYING OF PIPES. CUT BOTTOM OF TRENCHES TO GRADE OF PIPE. EXCAVATE BELL HOLES. PROVIDE BEARING FOR ENTIRE LENGTH OF LOWER THIRD OF PIPE. EXCAVATE ROCK AND PEA GRAVEL, WELL TAMPED. CUT TRENCHES AT LEAST 12" WIDER THAN GREATER DIAMETER OF PIPE. PROVIDE CLASS II DRAINAGE ROCK UNDER IRRIGATION PIPING UNDER BUILDING SLABS.

BACKFILLING: PLACE AND COMPACT AS SPECIFIED UNDER DIVISION 2. COVER NO WORK UNTIL INSTALLATION HAS BEEN APPROVED BY THE ARCHITECT. PROVIDE 36" MINIMUM COVER FOR CAST IRON AND STEEL PIPE OUTSIDE BUILDING. REMOVE SURPLUS MATERIAL AS DIRECTED.

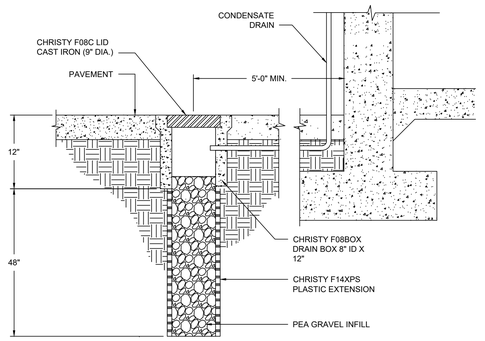
COMPLETION

BEFORE FINAL REVIEW:
THE WORK HEREUNDER WILL NOT BE REVIEWED FOR FINAL ACCEPTANCE UNTIL OPERATING AND MAINTENANCE DATA, MANUFACTURER'S LITERATURE, VALVE DIRECTORIES, PIPING IDENTIFICATION CODE DIRECTORY AND NAME PLATES SPECIFIED HEREIN HAVE BEEN APPROVED AND PROPERLY POSTED IN THE BUILDING AND FINAL CLEANING HAS BEEN COMPLETED.

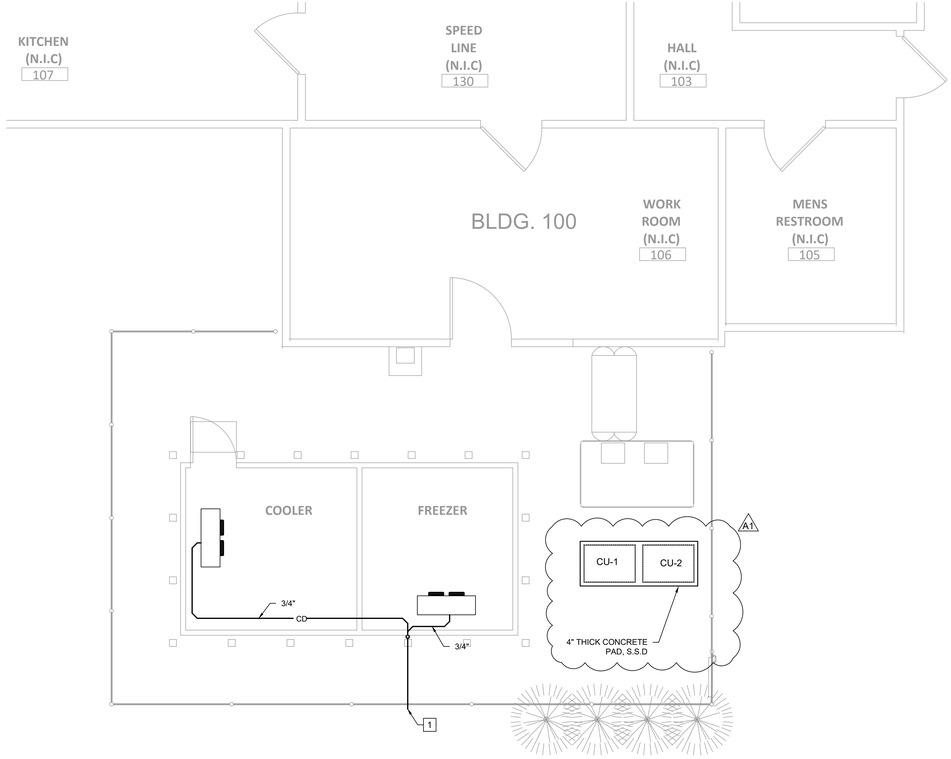
DEMONSTRATION OF OPERATIONS:
WHEN THE INSTALLATION IS COMPLETE AND ADJUSTMENTS SPECIFIED HEREIN HAVE BEEN MADE, OPERATE THE SYSTEMS FOR A PERIOD OF ONE WEEK, DURING WHICH TIME DEMONSTRATE TO THE ARCHITECT THAT SYSTEMS ARE COMPLETED AND OPERATING IN CONFORMANCE WITH THESE SPECIFICATIONS.

SHEET NOTES:

1 3/4"CD TO DRYWELL. SEE DETAIL 2/P2.1.



2 DRYWELL DETAIL
NOT TO SCALE



1 FLOOR PLAN_MILLER
1/4" = 1'-0"

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 01-121669 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/17/2025

Approvals

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Project Name
COOLER & FREEZER INSTALLATION

DSA SUBMITTAL 07/19/2024

No.	Date	Revisions
1	7/15/2024	DEH SUBMITTAL
A1	2/18/2025	ADDENDUM 001

THIS SHEET IS PART OF A COMPLETE DOCUMENT SET. IT SHALL BE USED IN CONJUNCTION WITH THE COMPLETE SET AND NOT AS AN INDIVIDUAL SHEET.

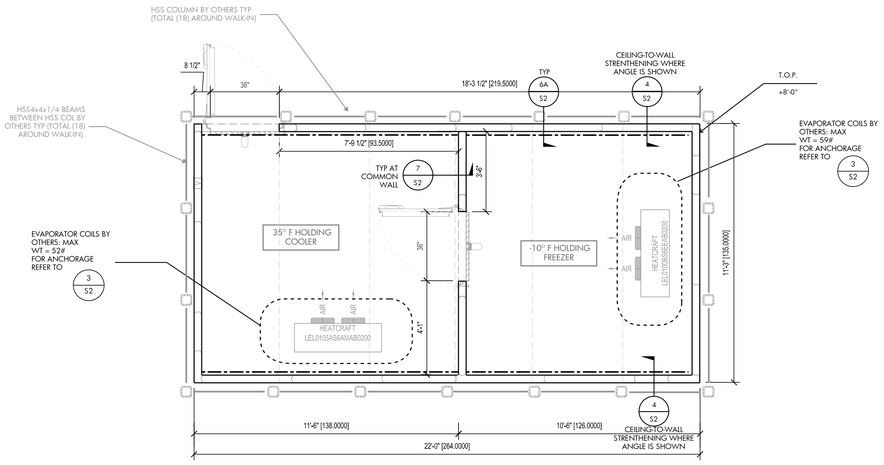
DRAWING TITLE
PLUMBING: SHEET SPECIFICATIONS, FLOOR PLAN AND DETAILS AND MECHANICAL FLOOR PLAN

SHEET NO. MP2.1
ADDENDUM 001
JOB NO. 23017-CMS

DATE 09/18/2024 | DRAFTER SW | CHECKED BY JC

DSA APPL.# ~~03-120960~~ 03-121669 | PROJECT NO. 236

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NOTE:
SEE SHEET S1.0 FOR HSS LAYOUT
OUTSIDE THE COOLER & FREEZER

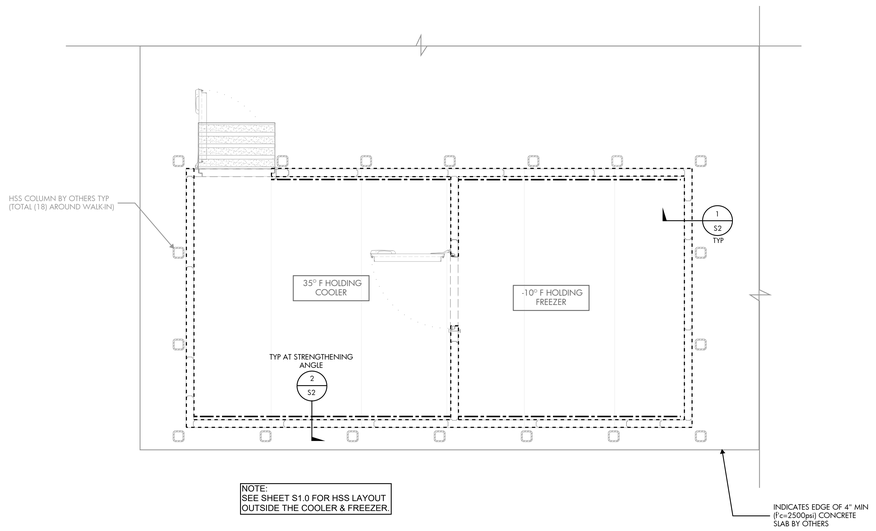
NOTE:

OTHER THAN WHAT IS EXPLICITLY SHOWN ON THESE DRAWINGS, NO EQUIPMENT HEAVIER THAN 20 LBS SHALL BE ATTACHED TO THE WALL/CEILING PANELS OF THE WALK-IN COOLER. THIS INCLUDES STORAGE RACKS, EVAPORATOR COILS, ETC.

PLAN SYMBOLS

	WALL PANEL BELOW, SHEARWALL TO BE FULL LENGTH OF WALL, UNO. REFER TO DETAILS 1/S2 ANCHORAGE TO SLAB.
	CEILING PANEL JOINTS
T.O.P.	TOP OF CEILING PANEL RELATIVE TO TOP OF SLAB, +0'-0"
	CONTINUOUS STRENGTHENING ANGLE PER 4/S2 FOR CEILING-TO-WALL CONNECTION WHERE SHOWN ON PLAN

WALL & CEILING PANEL PLAN | 3/8" = 1'-0" | **2**



NOTE:
SEE SHEET S1.0 FOR HSS LAYOUT
OUTSIDE THE COOLER & FREEZER.

NOTE:

OTHER THAN WHAT IS EXPLICITLY SHOWN ON THESE DRAWINGS, NO EQUIPMENT HEAVIER THAN 20 LBS SHALL BE ATTACHED TO THE WALL/CEILING PANELS OF THE WALK-IN COOLER. THIS INCLUDES STORAGE RACKS, EVAPORATOR COILS, ETC.

WALK-IN PANELS

1. RAIL TYPE: WOOD CEILING/FOAM WALLS
2. WALL PANEL THICKNESS: 4"
   INTERIOR SKIN: 26ga GALVANIZED/EMBOSSED
   EXTERIOR SKIN: 26ga GALVANIZED/EMBOSSED
3. CEILING PANEL
   THICKNESS: 4"
   INTERIOR SKIN: 26ga GALVANIZED/EMBOSSED
   EXTERIOR SKIN: 26ga ACRYLUME/EMBOSSED
4. FLOOR PANEL THICKNESS: 4 1/8"
   INTERIOR SKIN: 14ga GALVANIZED/SMOOTH
   EXTERIOR SKIN: 26ga ACRYLUME/EMBOSSED
5. HEIGHT OF WALK-IN: 96"

PLAN SYMBOLS

	WALL PANEL ABOVE, SEE WALL PANEL PLAN FOR TYPE. REFER TO DETAILS 1/S2 ANCHORAGE TO SLAB.
	CONTINUOUS STRENGTHENING ANGLE PER 2/S2 FOR WALL-TO-FLOOR CONNECTION WHERE SHOWN ON PLAN

FOUNDATION / SLAB PLAN | 3/8" = 1'-0" | **1**

GENERAL / PLAN NOTES

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

   2022 CALIFORNIA BUILDING CODE AND LATEST REVISIONS

   REFERRED TO HERE AS "THE CODE", 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 & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
2. DESIGN AND ANALYSIS OF WALK-IN COOLER PANELS IS BASED ON LOS ANGELES RESEARCH REPORT (LARR) 24543 - EVERIDGE, INC.
3. DO NOT SCALE STRUCTURAL DRAWINGS. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, DEPRESSIONS, CURBS, ETC. WITH ARCHITECTURAL / MANUFACTURER DRAWINGS PRIOR TO START OF CONSTRUCTION.
4. REFER ARCHITECTURAL DRAWINGS FOR SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, HOUSEKEEPING PADS, PITS, SWALES, EXTERIOR SLABS, ETC. AND FOR WALL OVERALL DIMENSIONS, LOCATION OF OPENINGS, ETC, NOT INDICATED ON STRUCTURAL DRAWINGS.
5. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH MAY BE INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE THE DESIGN RESPONSIBILITY OF OTHERS.

   DESIGN OF FOUNDATIONS & VERIFICATION OF EXISTING SLABS/FOUNDATIONS SHALL BE BY OTHERS. SEE PLAN FOR WALK-IN COOLER WALL/COLUMN LOADS ACTING ON SLABS/FOUNDATIONS.

DESIGN LOADING CRITERIA

1. LIVE LOADS PER CHAPTER 16A OF THE CODE:

   ROOF LIVE LOAD 20 PSF REDUCIBLE
2. SEISMIC ANALYSIS PER CHAPTER 16A OF THE CODE UTILIZING THE FOLLOWING PROCEDURE:
   (SEISMIC BRACING PROVIDED BY CANTILEVER COLUMNS AROUND WALK-IN BY OTHERS)

   RISK CATEGORY = II
   IMPORTANCE FACTOR, I_E = 1.00
   S_s = 2.067
   S_1 = 0.739
   SITE CLASS = D
   S_{MS} = 1.654
   S_{M1} = 0.838

   SEISMIC DESIGN CATEGORY = D
3. WIND ANALYSIS PER CHAPTER 16A OF THE CODE:

   RISK CATEGORY = II
   BASIC WIND SPEED = 95 mph
   WIND EXPOSURE = C
   GCpi = 0.18

   (WIND MFWRS BRACING PROVIDED BY CANTILEVER COLUMNS AROUND WALK-IN BY OTHERS)

   SCOPE OF DRAWINGS IS FOR PANEL TO PANEL CAPACITY AND CONNECTIONS DUE TO COMPONENTS AND CLADDING WIND LOADS

ANCHORAGE

1. ANCHOR DIAMETER REFERS TO THE ANCHOR SIZE AND NOT THE DIAMETER OF THE DRILLED HOLE.
2. ALL ANCHORS SHALL MEET THE MINIMUM EMBEDMENT, EDGE DISTANCE, SPACING, AND SLAB THICKNESS CRITERIA ESTABLISHED BY THE RELEVANT ICC-ESR EVALUATION REPORT.
3. SPECIAL INSPECTION SHALL BE PROVIDED PER THE ICC-ESR REPORT NOTED BELOW. ANCHORS INSTALLED WITH ADHESIVES SHALL HAVE CONTINUOUS SPECIAL INSPECTION IN ACCORDANCE WITH THE ICC-ESR REPORT BELOW AND CODE SECTIONS 1705A.3 AND 1705A.4.
4. ACCEPTABLE ANCHORS & ICC-ESR REPORTS ARE NOTED BELOW:

ANCHOR TYPE:	MFR & ANCHOR	ICC REPORT NO.:
EXPANSION BOLTS	HILTI "KB-TZ2"	ESR-4266

5. USE HOT DIP GALVANIZED OR STAINLESS STEEL ANCHORS WHEN EXPOSED TO WEATHER OR IN A DAMP ENVIRONMENT.
6. DO NOT LOCATE EXPANSION ANCHORS CLOSER TO EDGE OF CONCRETE/MASONRY OR TO CONTROL/ CONSTRUCTION JOINTS THAN THE MINIMUM EDGE DISTANCE SPECIFIED IN THE ICC REPORT, UNO.
7. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.
8. HOLES DRILLED INTO REINFORCED CONCRETE OR MASONRY SHALL NOT DAMAGE OR CUT EXISTING REINFORCING STEEL. HOLES DRILLED INTO PRE-STRESSED OR POST-TENSIONED CONCRETE SHALL HAVE A CLEARANCE OF ONE INCH MINIMUM FROM TENDONS. LOCATE EXISTING REINFORCING STEEL AND/OR TENDONS USING NON-DESTRUCTIVE METHODS PRIOR TO DRILLING.

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Seal/Signature:



Agency Approval:

Issue/Revision:

Issue No.	Rev. No.	Description	Date

Project:

MILLER MIDDLE SCHOOL - CUPERTINO SD

6151 RAINBOW DRIVE

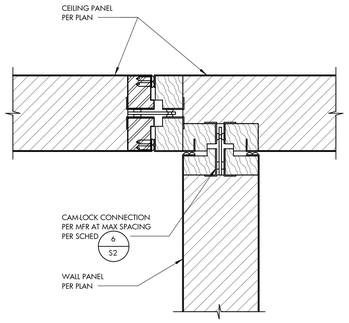
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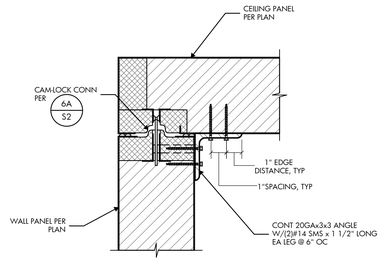
WALK-IN COOLER PLANS

Design: RR	SRSS Project Number: 24175	Everidge Project Number: E076106	
Drawn: RR	Scale: 3/8" = 1'-0" UNO		
Checked: RR	Sheet Number: S1		
Date: 12/02/2024			

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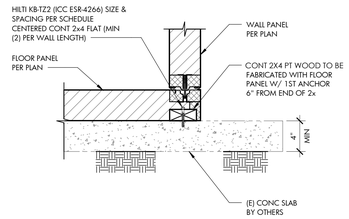
CAM-LOCK CONN AT COMMON WALL | 1" = 1'-0" | 7



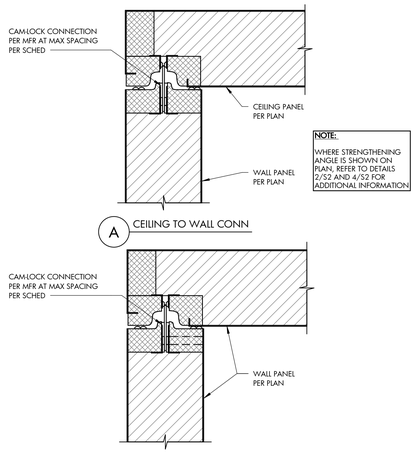
STRENGTHENING AT WALL- FLOOR CONN | 3" = 1'-0" | 4

NOTE: AT NON-SHEAR WALL PANELS, PROVIDE ANCHORAGE PER SHEAR WALL TYPE 1 PER SCHEDULE BELOW

SHEAR WALL TYPE	HILTI KB-TZ2
1	3/8"Ø x 2" EMBED @ 23" OC

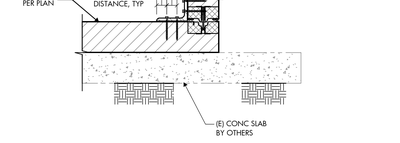


TYPICAL CONN - FLOOR PANELS | 1" = 1'-0" | 1



TYPICAL CAM LOCKS IN RAIL		
RAIL LENGTH (IN)	# CAM-LOCKS REQ'D	MAX SPACING (IN)
L < 30"	1	15" OC
30" ≤ L < 36"	2	20" OC
36" ≤ L ≤ 68"	2	45" OC
68" < L ≤ 116"	3	46" OC
116" < L ≤ 164"	4	47" OC
164" < L ≤ 212"	5	47" OC
212" < L ≤ 263.5"	6	48" OC
263.5" < L ≤ 300"	7	46" OC

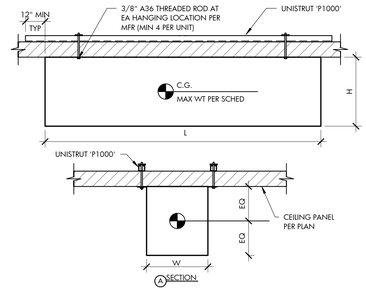
TYPICAL CAM-LOCK CONNECTION SCHEDULE | 1" = 1'-0" | 6



NOTE:
REFER TO 1/S2 FOR ANCHORAGE OF FLOOR PANEL TO SLAB NOT SHOWN.

STRENGTHENING AT WALL- FLOOR CONN | 1" = 1'-0" | 2

UNIT ID	L, LENGTH	W, WIDTH	H, HEIGHT	WEIGHT	# OF ANCHORS POINTS
LELO105A56AMAB0200	45 1/2"	13 1/4"	16 1/2"	52#	4
LELO100B56EEAB0200	45 1/2"	13 1/4"	16 1/2"	59#	4



EVAPORATOR COIL ANCHORAGE | NTS | 3

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Agency Approval:

Issue/Revision:

Issue No.	Rev. No.	Description	Date

Project:

MILLER MIDDLE SCHOOL - CUPERTINO SD

6151 RAINBOW DRIVE
SAN JOSE, CA 95129

Sheet Title:

PANEL ANCHORAGE & SUPPORT DETAILS

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