PROJECT NARRATIVE	
THIS SCOPE OF THIS REMODEL PROJECT INCLUDES THE FOLLOWING: • ICE HOUSE CONTAINING FIVE CURLING SHEETS • RESTROOMS, LOCKER ROOMS, OFFICE, AND STORAGE AREAS • MECHANICAL AND PLUMBING EQUIPMENT FOR ICE HOUSE OUTSIDE EAST SIDE OF BUILDING	DED
DEFERRED APPROVALS           NOTE: ALL DEFERRED APPROVAL ITEMS SHALL FIRST BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL, THE ARCHITECT, WHO SHALL REVIEW THEM TO SEE IF THEY ARE FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. IF THEY ARE FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. IF THEY ARE THE ARCHITECT WILL ADD A NOTATION TO THE DEFERED APPROVAL ITEM DOCUMENTS INDICATING THAT THEY HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. CONFORMANCE WITH THE TO THE BUILDING OFFICIAL FOR PLAN REVIEW. THE DEFERRED APPROVAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED APPROVAL ITEM DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL, PER CEC 107.3.4.2           DEFERRED APPROVAL ITEMS TO BE SUBMITTED AFTER BUILDING PERMIT ISSUANCE:           . AUTOMATIC FIRE SPRINKLER SYSTEM MODIFICATIONS           OF THE ALARM SYSTEM MODIFICATIONS           THIS PROJECT SHALL COMPLY WITH:           . 2016 CALIFORNIA BUILDING CODE           . 2016 CALIFORNIA PRECODE           . 2016 CALIFORNIA PLUCHNING CODE           . 2016 CALIFORNIA BUILDING CODE           . 2016 CALIFORNIA BUILDING CODE           . 2016 CALIFORNIA BUILDING CODE           . 2016 CALIFORNIA PLUCHNICAL CODE           . 2016 CALIFORNIA PLUCHNICS TANDARDS CODE	SAN FROM SASO ENTERPRI 8450 ENTERPRI 6450 ENTERPRI 6450 ENTERPRI 6450 ENTERPRI 6450 ENTERPRI 6450 ENTERPRI 75732-6373 75742-7572-7572 75742-7572-7572-7572 75742-7572-7572-7572-7572 75742-7572-7572-7572-7572 75752-7572-7572-75
CITY OF OAKLAND ORDINANCES  FIRE SAFETY NOTES	<ul> <li>INFERABLE THEREFROM AS BEING NECESSARY OR APPROR RESULTS.</li> <li>3. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDIN WORK OF OTHERS. SUBCONTRACTORS SHALL VERIFY THA WHICH MUST BE PROVIDED BY OTHERS, HAS BEEN COMPL COMMENCING THEIR WORK.</li> <li>4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO B INTO SECTIONS FOR CONVENIENCE ONLY. CONTRACTORS SUPPLIERS SHALL REFER TO ALL RELEVANT SECTIONS IN F WORK, AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF WHERE THE INFORMATION OCCURS IN THE DRAWINGS.</li> <li>5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE</li> </ul>
<ol> <li>STREET ADDRESS NUMBER AND/OR SUITE NUMBER SHALL BE POSTED IN A LOCATION VISIBLE FROM THE STREET. NUMBERS SHALL BE A MINIMUM OF 6" IN HEIGHT WITH A 1" STROKE NUMBERS SHALL BE OF A HIGHLY CONTRASTING COLOR COMPARED TO THE BACKGROUND ON WHICH THEY ARE APPLIED. NUMBERS PLACED ON GLASS SHALL HAVE A CONTRASTING COLOR APPLIED TO THE GLASS. CFO 505.1.</li> <li>FIRE EXTINGUISHERS SHALL BE SPACED PER THE REQUIREMENTS OF CFC SECTION 906.</li> <li>ONE 2-A10B-C MINIMUM RATED FIRE EXTINGUISHER IS REQUIRED FOR EACH 3.000 SQUARE FREE FOT FLOOR SPACE OR PORTION THEREOF. NAMIMUM TRAVEL DISTANCE TO ANY ONE FIRE EXTINGUISHER IS NOT TO EXCEED 75 FEET. MOUNT THE FIRE EXTINGUISHERS SO THAT THE TOPS ARE NO MORE THAN 48" OFF THE FLOOR.</li> <li>TAMPER SWITCHES SHALL BE PLACED ON ALL VALVES CONTROLLING WATER SUPPLY TO THE AUTOMATIC FIRE SPRINKLER SYSTEM. VALVES CONTROLLING WATER SUPPLY SHALLER RISER, OR ANY OTHER VALVE CONTROLLING THE WATER SUPPLY SHALL BE MONITORING STATION, PER CONTROLLING THE WATER SUPPLY SHALL BE MONITORING STATION, PER CFC 003.4.1</li> <li>THE WATER FLOW SWITCH FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE MONITORING STATION, PER CFC 003.4.1</li> <li>ALL REQUIRED EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. BOTH THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT BOTH THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT BOTH THE INSIDE WITHOUT THE WANDOOR STATING: THES DURABLE SIGN SHALL BE PORTIBED ON OR ADJACENT TO THE MAIN DOOR STATING: THE DURABLE SIGN SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT BOTH THE INSIDE WITHOUT THE WATER SUPPLY RETRACT WITH A SINGLEHAND MOTION, PER CFC 1006.1.5.</li>        ARE REQUIRED DONG STATION OF COLOR STATION, PER CFC 005.1.        LILLUMINATED EXT SIGNS, SHOWING THE PATHS OF TRAVEL AND THE EXITS, ARE REQUIRED TO BE PROVIDED, PER CFC 1011.1       EMERGENCY CER CRET THANG NOTE CONTRUCTION W</ol>	<ol> <li>IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVI CONSTRUCTION DOCUMENT SET, AS APPROVED BY THE G JURISDICTION OVER THE PROJECT. AND ANY ADDENDA TH SUBCONTRACTORS, MATERIAL OR EQUIPMENT SUPPLIERS COMPLETE, RESPONSIVE BID. THE USE OF ANY PORTION OF IN THE ABSENCE OF THE COMPLETE CONSTRUCTION DOCL RISK OF THE USER.</li> <li>THE CONSTRUCTION DOCUMENTS APPLY IN THEIR ENTIRE THE ARCHITECT AND ITS CONSULTANTS HAVE SHOWN VAR SEPARATE SHEETS AND/OR CLASSIFICATIONS OF DRAWING BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED O AND CONDITIONS OF SUCH LIMITS ARE WHOLLY BETWEEN SUBCONTRACTORS. THE COMPLETED PROJECT SHALL INC CONSTRUCTION DOCUMENTS. THE OWNER WILL CONSIDE PROVIDER OF ALL WORK NECESSARY TO COMPLETE THEF IS REQUIRED BY OR REASONABLY INFERABLE FROM THE C</li> <li>ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE S DETAILS. DIMENSIONS ARE TO FACE OF STUDS, CENTERLI CONTRACTOR SHALL VERIFY DIMENSIONS OF DREPABRICA COORDINATE ROUGH OPENINGS ACCORDINGLY.</li> <li>ALL CONSTRUCTION SHALL BE IN STRUCT CONFORMANCE &amp; PUBLISHED SPECIFICATIONS AND INSTRUCTIONS. ALL DISC SPECIFICATIONS AND INSTRUCTIONS AND THE CONTRACT ARCHITECT AND ITS CONSULTANTS, SHALL BE BROUGHT T IN WRITING PRIOR TO COMMENCING WORK.</li> <li>SHOULD THE CONTRACTOR DISCOVER A CONFLICT, ERROF CONSTRUCTION DOCUMENTS, HE/SHE SHALL IMMEDIATELY BEFORE PROCEEDING WITH WORK KFFECTED THEREBY.P WITHOUT FIRST GIVING SUCH TIMELY NOTICE SHALL CONS CONTRACTOR OF ANY RELATED CLAIM(S) FOR ADDITIONAL DISCOMTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN EXISTING UTILITY LOCATIONS, AND EXISTING CONDITIONS. TO STARTING CONSTRUCTION, ANY DISCREPANCIES OR IN BROUGHT TO THE ARCHITECTS ATTENTION BEFORE WORK 11. ALL SUBCONTRACTORS ARE REQUIRED TO BE LICENSED W 12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN EXISTING UTILITY LOCATIONS, AND EXISTING CONDITIONS. TO STARTING CONSTRUCTION, ANY DISCREPANCIES OR IN BROUGHT TO THE ARCHITECTS ATTENTION BEFORE WORK 11. ALL SUBCONTRACTORS ARE REQUIRED TO BE LICENSED W 12. CONTRACTOR SHALL PROVIDE ALL MEASURES NEC</li></ol>

# EDICATED ICE FACILITY

FOR

# FRANCISCO BAY AREA **CURLING CLUB**

## RPRISE WAY

## OAKLAND, CALIFORNIA

94621

## MECHANICAL ENGINEER

COSTA ENGINEERS 3274 Villa Lane Napa, CA 94558 707-252-9177 sclark@costaengineers.com

## ELECTRICAL ENGINEER

DFH & ASSOCIATES P.O. Box 1362 Meadow Vista, CA 95722 530-613-7966 dfheng@att.net

## OR NOTICE

URES NECESSARY TO PROTECT THE STRUCTURE, PROJECT SITE DURING CONSTRUCTION.

CUMENTS TO DESCRIBE A COMPLETE, FUNCTIONAL CTED. THE CONSTRUCTION DOCUMENTS ARE BY ANY PORTION SHALL BE AS BINDING AS IF COVERED IN THE CONSTRUCTION DOCUMENTS ONSISTENT THEREWITH OR IS REASONABLY RY OR APPROPRIATE TO PRODUCE THE INTENDED

FOR COORDINATION OF THEIR WORK WITH THE VERIFY THAT ANY WORK RELATED TO THEM, BEEN COMPLETED AND IS ADEQUATE PRIOR TO

TENDED TO BE USED TOGETHER, AND ARE DIVIDED NTRACTORS, SUBCONTRACTORS AND MATERIAL ECTIONS IN BIDDING AND PERFORMING THEIR ASPECTS OF THEIR WORK REGARDLESS OF RAWINGS.

OR TO PROVIDE ACCESS TO THE COMPLETE ED BY THE GOVERNMENTAL AGENCIES HAVING ADDENDA THERETO, TO ANY AND ALL NECESSARY T SUPPLIERS, ETC., AS NECESSARY TO PROVIDE A NY PORTION OF THE CONSTRUCTION DOCUMENTS UCTION DOCUMENT SET SHALL BE AT THE SOLE

HEIR ENTIRETY TO ALL CONTRACTOR FORCES. E SHOWN VARIOUS PORTIONS OF THE WORK ON S OF DRAWINGS. SUCH SEPARATIONS SHALL NOT K REQUIRED OF ANY SEPARATE TRADE. THE TERMS LY BETWEEN THE CONTRACTOR AND ITS CT SHALL INCLUDE ALL WORK DEPICTED IN THE VILL CONSIDER THE CONTRACTOR AS THE SOLE IPLETE THE PROJECT, TO THE EXTENT SUCH WORK FROM THE CONSTRUCTION DOCUMENTS.

OVER SCALE SHOWN ON PLANS, SECTIONS AND DS, CENTERLINES OF STEEL MEMBERS, OR E ON DRAWINGS. DO NOT SCALE DRAWINGS. KEN TO THE FACE OF FINISH MATERIALS. THE PREFABRICATED AND MANUFACTURED ITEMS AND LY.

FORMANCE WITH MANUFACTURER'S LATEST DNS. ALL DISCREPANCIES BETWEEN THESE E CONTRACT DOCUMENTS PREPARED BY THE BROUGHT TO THE ATTENTION OF THE ARCHITECT

IFLICT, ERROR, OR DISCREPANCY IN THE IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING, THEREBY. PROCEEDING WITH ANY SUCH WORK SHALL CONSTITUTE A WAIVER BY THE R ADDITIONAL TIME OR MONEY.

SIONS SHOWN IN THE CONSTRUCTION DOCUMENTS. CONDITIONS AFFECTED BY THE CONTRACT PRIOR ANCIES OR INCONSISTENCIES FOUND SHALL BE EFORE WORK PROCEEDS.

E LICENSED WITH THE CITY BUILDING DIVISION.

DING A COMPLETE SET OF ALL BUILDING, ITHIN 24 HOURS OF RECEIVING SAME.

URES NECESSARY TO PROTECT THE STRUCTURE, G CONSTRUCTION.

G PLANTS, SHRUBS, TREES, LAWN, LANDSCAPE S REMOVED OR DAMAGED SHALL BE REPLACED. E DAMAGED BY THE CONTRACTOR'S OPERATION N AND TO THE APPROVAL OF THE BUILDING OWNER

IENT IN STUD WALLS SHALL BE PROVIDED AT ALL LVING, EQUIPMENT, ETC., BY GENERAL

## PROJECT DATA

- STREET ADDRESS: 8450 ENTERPRISE WAY, OAKLAND, CA 94621
- APN: 42-4318-38-1
- ZONING: IO INDUSTRIAL OFFICE
- G.L.A. (GROSS LEASABLE AREA) OF EXISTING TENANT SPACE: 14,862 SQ. FT.
- BUILDING CONSTRUCTION TYPE: III-B (TILT-UP CONCRETE WALLS AND UNPROTECTED WOOD-FRAMED ROOF)
- OCCUPANCY: ICE HOUSE: A-3 (CURLING USE IS SIMILAR TO BOWLING AT A BOWLING ALLEY) LOUNGE & HALL: A-2 (VIEWING AREAS WITHOUT FIXED SEATS) OFFICE AREA: B
- AUTOMATIC FIRE SPRINKLERS: YES
- AUTOMATIC FIRE ALARM: YES
- SEISMIC DESIGN CATEGORY: E

## GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE ADOPTED ORDINANCES AND BUILDING AND FIRE PREVENTION CODES. REFER TO THESE DRAWINGS FOR A LIST OF KNOWN APPLICABLE CODES. ANY DISCREPANCIES BETWEEN THESE CODES AND THE CONSTRUCTION DOCUMENTS SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE CONSTRUCTION DOCUMENTS SHALL NOT BE CONSTRUED AS TO PERMIT WORK THAT DOES COMPLY WITH THESE CODES.
- WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, 2. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK SHOWN ON DRAWINGS. IF SIMILAR WORK IS NOT DETAILED IN DRAWINGS, WORK SHALL FOLLOW INDUSTRY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS AS ACCEPTABLE TO THE ARCHITECT.
- 3. ALL SIGNS REQUIRE SEPARATE PERMITS.
- PROVIDE SAFETY GLAZING IN DOORS AND WITHIN 24" OF DOORS, AND OTHER LOCATIONS PER 4. CBC 2406.

## PLUMBING FIXTURE REQUIREMENTS

OCCUPANT LOAD, PER CPC TABLE 'A'

40	(40 PLAYERS)	GROUP A	ICE HOUSE (SEE EXITING PLAN FOR EXPLANATION)
64	(946 S.F. / 15	GROUP A	LOBBY & HALL
3	(562 S.F. / 200)	GROUP B	OFFICE & LOCKER ROOMS
+ 1	(1,576 S.F. / 5,000)	GROUP S	STORAGE
108	OCCUPANT LOAD F	OR CALCULATIN	IG PLUMBING FACILITIES, PER CPC TABLE 'A',
	WITH A-2 PROVIDIN	G LARGEST NUN	IBER OF OCCUPANTS, AND THUS BEING THE PRIMARY USE

PLUMBING FACILITIES REQUIRED PER 2016 CPC, TABLE 4-1, IN GROUP A-2 OCCUPANCY

	MALE	FEMAL
WATER CLOSETS:	2	3
URINALS:	1	-
LAVATORIES:	1	1
DRINKING FOUNTAINS:	1	

PLUMBING FACILITIES PROVIDED

		MALE	<u>FEMALE</u>
VATER CLOSETS:		2	3
JRINALS:		1	-
AVATORIES:		2	2
DRINKING FOUNTAINS:	1		

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	A0.3	_
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	A2.2	_
	A3.1	
	A4.1	
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	A6.1	
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	A9.3	
	A9.4	
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	S5.1 S5.2	
	S8.1	
	M1.1	
	M2.1	
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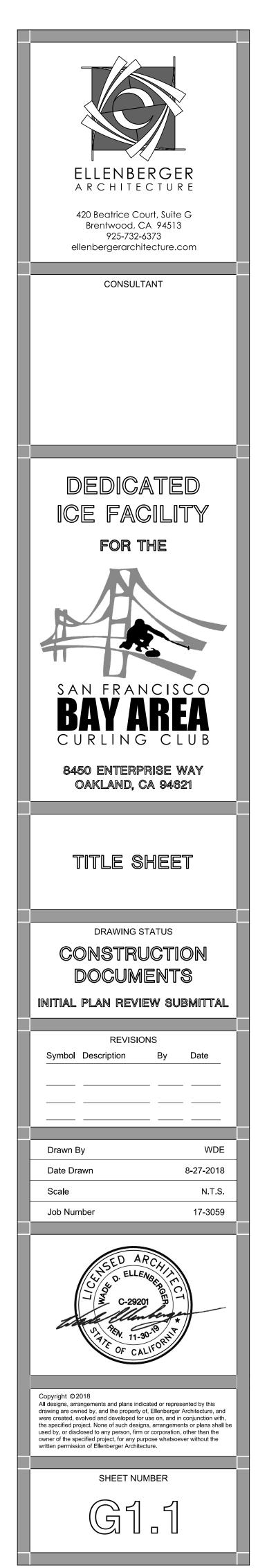
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G1.4 G1.5

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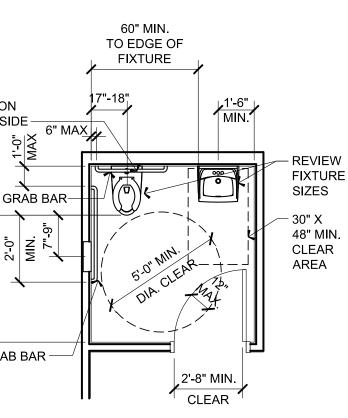
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& @ AB	AND AT ANCHOR BOLT	PB PERIM PEB	PIPE BOLLARD PERIMETER PREFABRICATED	
AB AC A/C	ANCHOR BOLT ASPHALT CONCRETE AIR CONDITIONER	PFB PL PLASTAM	PREFABRICATED PLATE/PROPERTY LINE PLASTIC LAMINATE	
A/C ACOUS AD	AIR CONDITIONER ACOUSTICAL AREA DRAIN	PLAS LAM PLAS	PLASTIC LAMINATE PLASTIC/PLASTER	
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AGG ALUM	AGGREGATE ALUMINUM	PT PTD	POINT PAPER TOWEL DISPENSER	ACTIVATION ON WIDE SIDI
APP APPROX	APPLICATION APPROXIMATE	PTD/R	PAPER TOWEL DISPENSER & RECEPTACLE	- - -
ARCH ASPH	ARCHITECTURAL ASPHALT	R	RISER/RADIUS	د
BD BLDG	BOARD BUILDING	RB RD	RUBBER BASE ROOF DRAIN	36" MIN. GR
BLDG BLK(G) BM	BLOCK(ING) BEAM, BENCHMARK	REFIG REINF	REFRIGERATOR REINFORCED	N. 2-0"
BOT BRG	BEAM, BENCHWARK BOTTOM BEARING	REM REQD	REMOVE REQUIRED	4-0" MIN. CLEAR
BUR	BUILT UP ROOF	REV RHMB RHWS	REVERSED ROUND HEAD MACHINE BOLT	4'-0
CAB'T CB	CABINET CATCH BASIN	RHWS RM RO	ROUND HEAD WOOD SCREW ROOM ROUGH OPENING	
CEM CER	CEMENT CERAMIC	RWD	REDWOOD	42" MIN. GRAB I
C.F.M. C.I.	CUBIC FEET/MINUTE CAST IRON	SC		
C.J. ©	CONTROL JOINT CENTER LINE	SCD SCHED SD	SEAT COVER DISPENSER SCHEDULE SOAP DISPENSER	
CLG CMU	CEILING CONCRETE MASONRY UNIT	SD SECT SHT	SOAP DISPENSER SECTION SHEET	REST
CTR COL	CENTER COLUMN	SHTG SIM	SHEET SHEATHING SIMILAR	
CONC CONN	CONCRETE CONNECTION	S.M.S. SND	SHEET METAL SCREW SANITARY NAPKIN DISPENSER	
CONST CONT	CONSTRUCTION CONTINUOUS CERAMIC THE	SNR SQ	SANITARY NAPKIN RECEPTACLE SQUARE	
СТ	CERAMIC TILE DIAMETER	SQ SS STD	STAINLESS STEEL STANDARD	
Ø DBH DBL	DIAMETER DIAMETER AT BREAST HEIGHT DOUBLE	STL STOR	STEEL STORAGE	
DET DF	DOUBLE DETAIL DRINKING FOUNTAIN	STRUCT	STRUCTURAL SUSPENDED	FACE OF
DF DIA	DOUGLAS FIR DIAMETER	SYM SYS	SYMETRICAL SYSTEM	
DIA DIM DN	DIAMETER DIMENSION DOWN			Ę
DR DS	DOOR DOWNSPOUT	T TB TBP	TREAD TACKBOARD TO BE REMOVED	48" MIN
DWG	DRAWING	TBR T&G TEI	TO BE REMOVED TONGUE AND GROOVE TELEPHONE	
(E)	EXISTING	TEL TEMP. THK	TELEPHONE TEMPERED GLAZING THICK(NESS)	3" MAX.
ÈÀ EB	EACH EXPANSION BOLT EXPANSION JOINT	THK TO TOB	THICK(NESS) TOP OF TOP OF BLOCK	MAX. "
E.J. ELECT ELEV	EXPANSION JOINT ELECTRICAL ELEVATION	TOB TOM TOP	TOP OF BLOCK TOP OF MASONRY TOP OF PLATE	
ELEV EQ EQUIP	EQUAL	TOP TOS TOW	TOP OF PLATE TOP OF SLAB TOP OF WALL	
EXH	EQUIPMENT EXHAUST EXISTING	TPD TS	TOF OF WALL TOILET PAPER DISPENSER TUBULAR STEEL	
EXIST EXP EXTER.	EXISTING EXPANSION EXTERIOR	TYP	TYPICAL	
		UNO UR	UNLESS NOTED OTHERWISE URINAL	
FBGL FE/FEC	FIBERGLASS FIRE EXTINGUISHER/CABINET	VERT	VERTICAL	
FD FF	FLOOR DRAIN FINISH FLOOR	VG VT	VERTICAL GRAIN VINYL TILE	
FHWS FIN	FLAT HEAD WOOD SCREW FINISH	VWC	VINYL WALL COVERING	
FLR FOC	FLOOR(ING) FACE OF CONCRETE	W/ WAIN	WITH WAINSCOT	
FOF FOM	FACE OF FINISH FACE OF MASONRY	WB WC	WOOD BASE WATER CLOSET	
FOS FRAMG	FACE OF STUD FRAMING	WD WH	WOOD WATER HEATER	
FTG FURN	FOOTING FURNISHED	WDW WP	WINDOW WATERPROOF(ING) WELDED WIRE EARDIC	
GA	GAUGE	WWF	WELDED WIRE FABRIC	
GALV GB	GALVANIZED GRAB BAR			FLOC WAL
G.I. GLB	GALVANIZED IRON GLUE LAMINATED BEAM			59" MIN. FLOOR- MOUNTED MOUNTED
GSM GYP	GALVANIZED SHEET METAL GYPSUM			28ª
GYP BD	GYPSUM BOARD			
HB HC	HOSE BIB HANDICAPPED			
HC HDR HDWR	HANDICAPPED HEADER HARDWARE			
HM HORIZ	HARDWARE HOLLOW METAL HORIZONTAL			
HT.	HEIGHT			
ID INSUL	INSIDE DIAMETER INSULATION			WATE
INTER	INTERIOR			
JAN JS	JANITOR JANITOR SINK			
JT	JOINT			
K.D.	KILN DRIED			
LAM LAV	LAMINATE LAVATORY			
LT	LIGHT			2'-6"
MAS MAT	MASONRY MATERIAL			MIN CLEAR
MAX M.B.	MAXIMUM MACHINE BOLT			
MB MECH	MEMBRANE MECHANICAL			
MFR MIN	MANUFACTURER MINIMUM			
MISC MTD	MISCELLANEOUS MOUNTED			30"x48"     CLEAR
MTL MTP	METAL METAL TOILET PARTITION			FLOOR     SPACE
(N)	NEW			
ŇÁT N.I.C.	NATURAL NOT IN CONTRACT			
NTS	NOT TO SCALE			
OV/ OC	OVER ON CENTER(S)			
OD OPG	OUTSIDE DIAMETER OPENING			URINA
OPP	OPPOSITE			

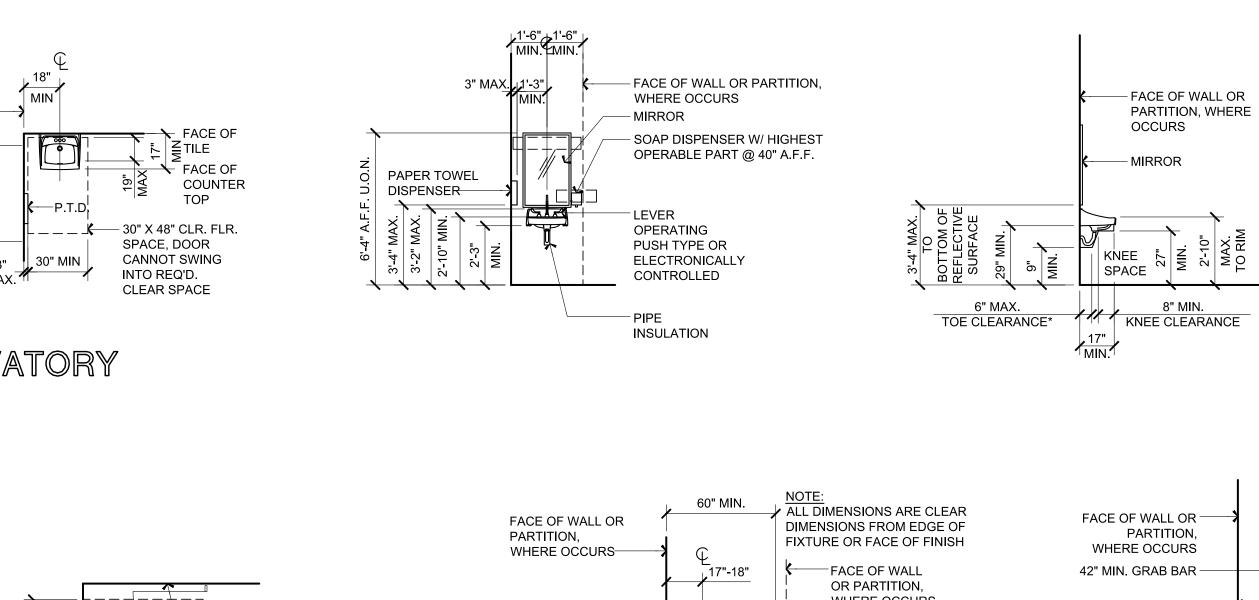
## ACCESSIBLE FIXTURE & ACCESSORY MOUNTING HEIGHTS

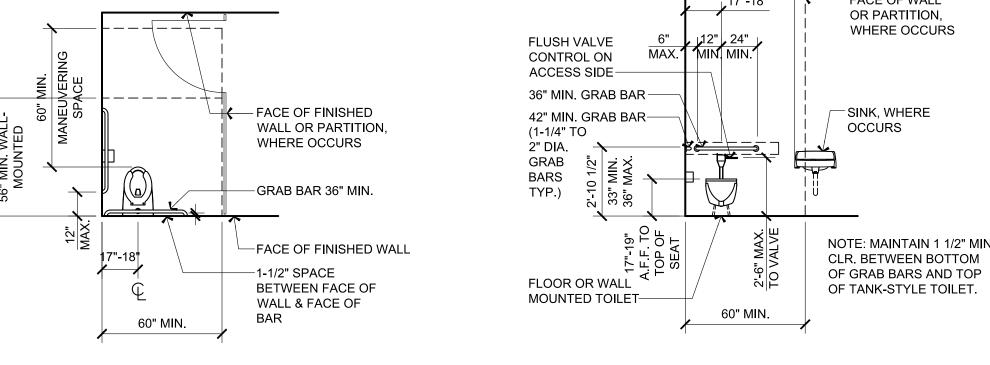


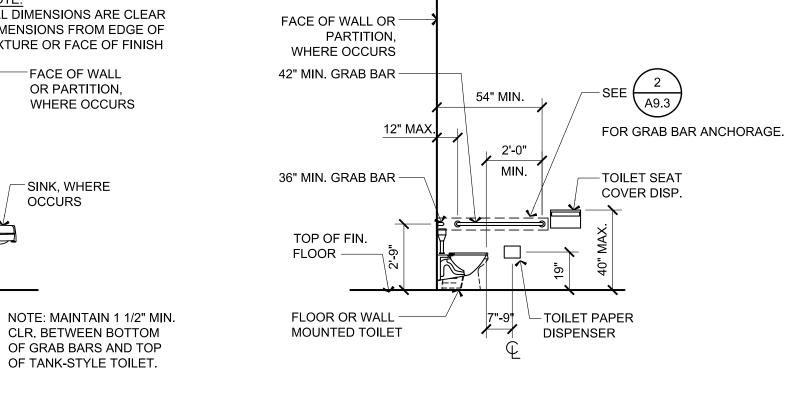
## TROOM

### RESTROOM NOTES

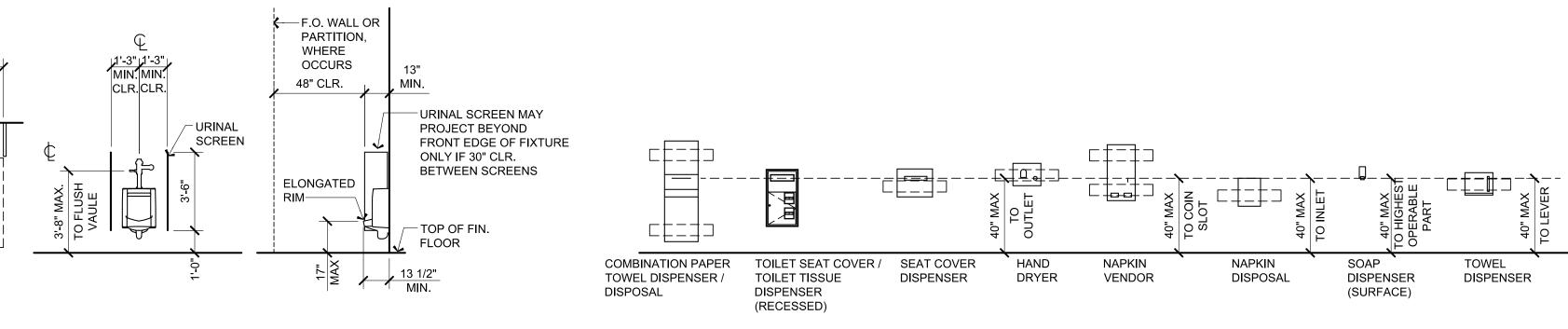
- 1. OPERABLE PARTS AND CONTROLS FOR WATER CLOSETS, URINAL, AND LAVATORIES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE NO GREATER THAN 5 POUNDS-FORCE. LEVER-OPERATED PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. (CBC 11B-309.4)
- 2. HAND-OPERATED FLUSH CONTROLS SHALL BE LOCATED 44" MAXIMUM ABOVE THE FLOOR. (CBC 11B-604.6)
- 3. HANDLES AND LATCHES ON ACCESSIBLE TOILET COMPARTMENT DOORS SHALL COMPLY WITH CBC SECTION 11B-309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FLOOR.







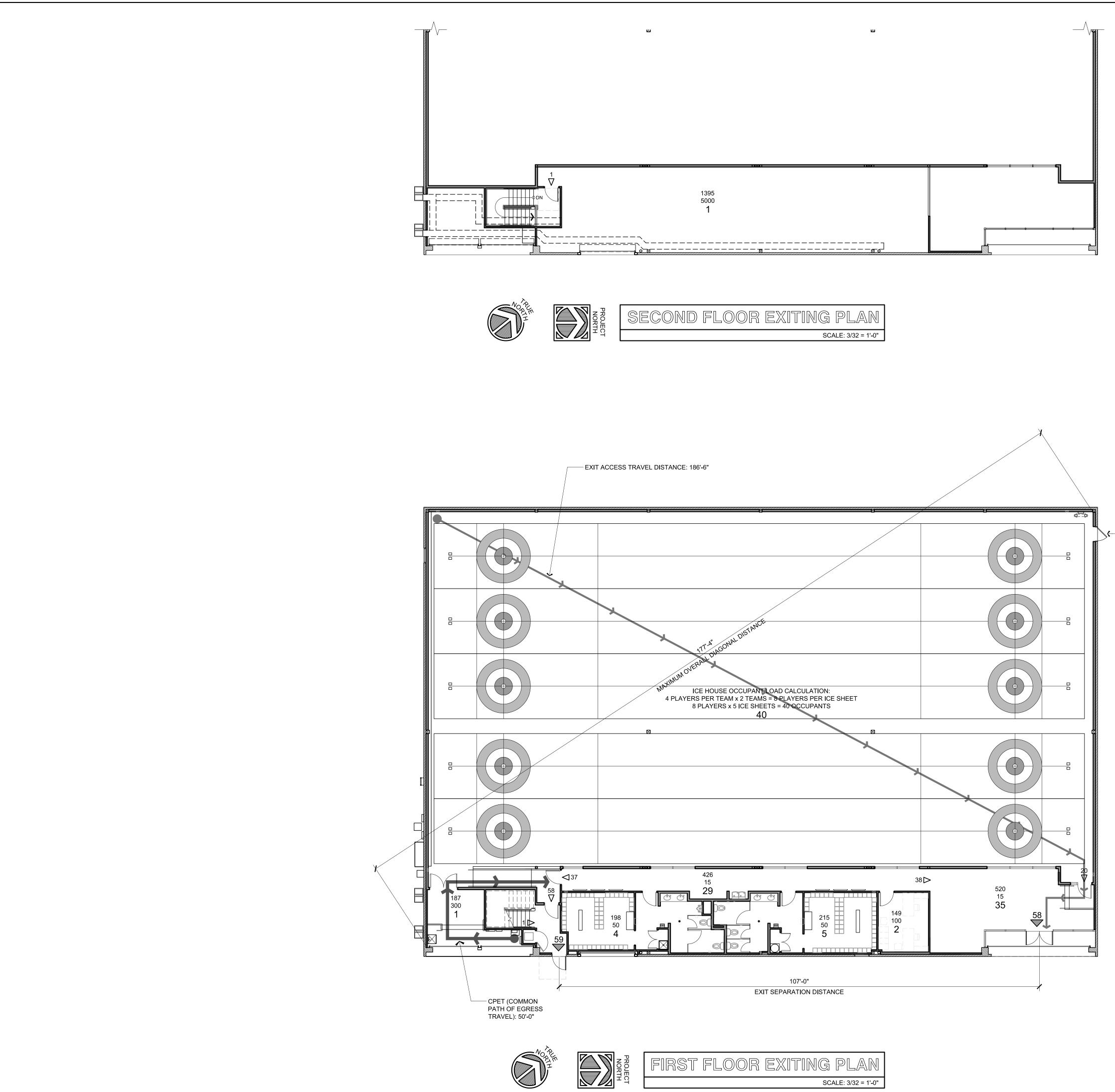
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## DISPENSERS

A R C 420 Ber Bren ellenber	THE CONSULTANT
ICE F SAN F BAS CURL 8450 E	DICATED FACILITY or the or the RANCISCO AREA ING CLUB
REQU	ESSIBILITY JIREMENTS REVIATIONS
CONS	AWING STATUS STRUCTION CUMENTS N REVIEW SUBMITTAL
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Drawn By Date Drawn	WDE 8-27-2018
Scale Job Number	1/4" = 1'-0" 17-3059
Job Number	



1395 5000 1		

## EXITING PLAN LEGEND

450 K AREA OF ROOM, IN SQUARE FEET 30 CCUPANT LOAD FOR ROOM

EXITING REQUIREMENTS

TOTAL BUILDING OCCUPANT LOAD (SEE EXITING DIAGRAM BELOW), PER CBC TABLE 1004.1.2: 123

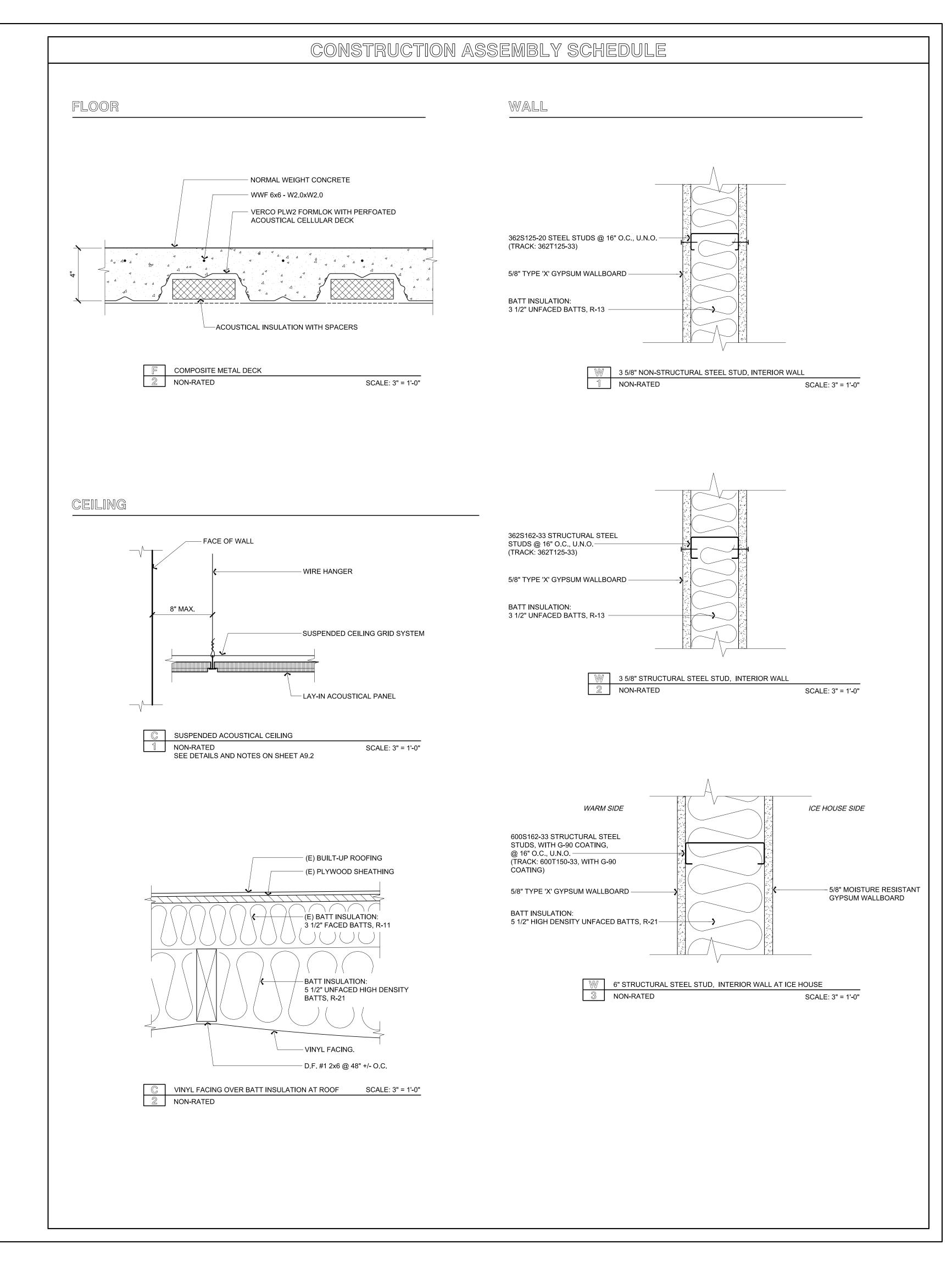
NUMBER OF EXITS REQUIRED, PER CBC TABLE 1021.3(1): 2 NUMBER OF EXITS PROVIDED: 2 <u>OK</u>

REQUIRED WIDTH OF EXITS, PER CBC 1005.3.2: 123 / 2 x 0.2 = 12.3" MINIMUM WIDTH OF EXITS PROVIDED : 36" OK

-EFFECTIVE DOOR HEIGHT OF THIS EXISTING DOOR IS ONLY 6'-0", DUE TO ICE HOUSE FLOOR BEING 1'-0" ABOVE EXISTING CONCRETE SLAB. THEREFORE THIS DOOR CAN NOT BE CONSIDERED AN ACCESSIBLE EXIT DOOR.

_		
	Image: consult of the second state	
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	EXITING PLAN	
	DRAWING STATUS CONSTRUCTION DOCUMENTS INITIAL PLAN REVIEW SUBMITTAL	
	REVISIONS         Symbol       Description       By       Date	
	Drawn ByWDEDate Drawn8-27-2018ScaleAS NOTEDJob Number17-3059	
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	Copyright ©2018 All designs, arrangements and plans indicated or represented by this drawing are owned by, and the property of, Ellenberger Architecture, and were created, evolved and developed for use on, and in conjunction with, the specified project. None of such designs, arrangements or plans shall be used by, or disclosed to any person, firm or corporation, other than the owner of the specified project, for any purpose whatsoever without the written permission of Ellenberger Architecture.	
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## **RECYCLING & DIVERSION OF DEBRIS REQUIREMENTS**

### 15.34.010 - Title.

The provisions of Section 15.34.010 through Section 15.34.090 inclusive, shall be known as the City of Oakland "Construction and demolition debris collection," transportation, waste reduction and recycling requirements."

15.34.020 - Purpose and intent.

The purpose of these provisions is to prescribe requirements designed to meet and further the goals of the California Integrated Waste Management Act of 1989 Assembly Bill 939 and the Alameda County Waste Reduction and Recycling Act of 1990 (Measure D). The intent of these provisions is to divert at a minimum 50 percent of C&D debris from landfills; process and return the materials into the economic mainstream thereby conserving natural resources; and stimulate markets for recycled and salvaged materials.

The City Administrator or his/her designee is authorized to develop guidelines to implement the requirements of this chapter, which may be amended from time to time

15.34.030 - Definitions.

For the purpose of this Chapter 15.34, the following definitions shall apply:

"Addition" means an extension or increase in floor area or height of a building or structure (as adopted in Section 15.04.005). "Affected project" means a project that requires a waste reduction and recycling plan ("WRRP") because it meets one or more of the following criteria:

- 1. It is new construction;
- 2. It is nonresidential or apartment house demolition;

3. It is a nonresidential or apartment house addition or alteration that has a construction valuation greater than or equal to \$50,000.00. Affected projects exclude projects required to divert C&D debris under the 1997 requirements of the Modifications to the Standard Specifications for Public Works Construction (Ordinance No. 12049 C.M.S.).

"Alteration" means any change, addition or modification in construction or occupancy (as adopted in Section 15.04.005).

"Apartment house" means any building or portion thereof that contains three or more dwelling units and, for the purpose of this chapter, includes residential condominiums (as adopted in Section 15.04.005).

"Appeal" means the process outlined in Section 15.34.090

"Applicant" means any individual, firm, limited liability company, association, partnership, political subdivision, government agency, municipality, industry, public or private corporation, or any other entity that undertakes any construction, demolition, addition, or alteration project within the City. "Building official" means the officer or other designated authority charged with the administration and enforcement of the California Building Code ("CBC") and the City's amendments to the CBC (as adopted in Section 15.04.005).

"Construction" means the manner or method of building (as adopted in Section 15.04.005).

"Construction and demolition debris," "C&D debris," or "construction debris" means materials resulting from construction, remodeling, repair or demolition operations on any house, residential property, commercial building, pavement or other structure for which the City requires a building or demolition permit, or from a non-permitted municipal project. Construction and demolition debris includes but is not limited to rocks, soils, tree remains and other plant debris which results from land clearing or land development operations in preparation for construction. C&D debris may include materials that have been source separated. "Demolition" means the deconstructing, destroying, razing, tearing down, or wrecking of any facility including its foundation, covered by this chapter. As used herein, the word "demolition" shall include any partial demolition and any interior demolition affecting more than ten percent of the replacement value of the structure as determined by the Building Official. Demolition work includes: (1) proper handling of materials pursuant to applicable regulations and approved plans, if any, (2) termination of utilities serving the premises including permits and final inspections and approvals, (3) removal of driveways and repair of public

sidewalks, as required, and (4) site cleanup and restoration including grading, landscaping, and fencing as required. "Divert," "diverted," or "diversion" means to use C&D debris for any purpose other than disposal in a landfill, incineration facility, or alternative daily cover. Methods to divert materials from landfills include reuse, salvage, and recycling.

"Diversion attainment" means at least 50 percent by weight of the total C&D debris is diverted on an affected project. "Fixed body vehicle" means any wheeled motor vehicle that does not rely on a roll-off box or other detachable container to collect, contain and transport material. "Hearing Officer" means the City staff designated by the City Administrator to whom appeals can be made under this chapter.

"Non-affected projects" means projects that do not require a WRRP. Applicants for non-affected projects shall be encouraged to divert at least 50 percent of all project-related C&D debris. "Non-permitted municipal projects" means construction and/or demolition projects on or of City-owned property, managed by City employees, which are not

required to obtain a building or demolition permit. "Recycle" or "recycling" means the process of collecting, sorting, cleansing, treating, and reconstituting materials for the purpose of using the altered form in the

manufacture of a new product. Recycling does not include burning, incinerating, or thermally destroying C&D debris. "Reuse" means recovering material for repeated use in the same form. This includes materials that are reused at the same location as they are generated. "Salvage" means the recovering of C&D debris from a building or demolition site for the purpose of recycling, reuse, or proper storage for future recycling or reuse. "Source separated" means materials that have been segregated from C&D debris, for the purpose of diversion, by or for the generator thereof at the service address at which the materials were generated.

"Summary report" means the report to be submitted to the Building Official at the conclusion of the affected project and prior to the final inspection, issuance of a temporary certificate of occupancy, or certificate of occupancy.

"Targeted materials" means the C&D debris listed on the WRRP form that could potentially be reused, recycled, or salvaged. "Unpermitted materials" means wastes or other materials that class III disposal sites may not receive under their permits.

"WRRP" means waste reduction and recycling plan.

"WRRP form" means a form, provided by the City for the purpose of compliance with this chapter that must be submitted by the applicant for any affected project. "WRR Review Official" means the Waste Reduction and Recycling Review Official who is the City staff designated and authorized by the City Administrator and is responsible for implementing this chapter.

15.34.040 - Collection and transportation of C&D debris.

A. Pursuant to the authority provided by Article X, Section 1000 of the Oakland City Charter, any franchise for the collection and transportation of C&D debris within the City may be granted by the City Administrator on such terms and conditions as are determined by the City Council to be in the best interests of the City. Such terms and conditions shall be evidenced by a written non-exclusive franchise agreement, approved in form by the City Council, and executed by the City Administrator and franchisee(s).

B. It is unlawful to collect, transport or dispose of construction and demolition debris anywhere in the City except as provided for in this chapter. It is unlawful for any person other than persons in possession of a non-exclusive franchise agreement granted by the City, or those persons employed by such franchised collector(s) to collect or transport any construction and demolition debris within the City excep

- Donated Materials. Construction and demolition debris generated in the City that are donated by the generator.
  - Materials Hauled by Owner or its Contractor. Construction and demolition debris that are removed from any service address and are
  - transported to a processing or disposal site by: (a) The owner of such service address;
  - (b) The full-time employee of the owner that uses the owner's equipment to transport materials; or
  - (c) A construction contractor performing construction work at the service address, whose collection and transport of the C&D debris is incidental to the service being performed, provided that such contractor uses a fixed-body vehicle for the collection and transportation of the C&D debris, and such contractor collects and transports the materials at no additional or separate fee using contractor's employees and contractor's equipment. For purposes of this section, except as set forth below, the term "incidental to the service being performed" shall mean that the material requiring collection and transportation is generated by the activity of the contractor performing the hauling.
    - I. For example, a construction contractor who remodels a kitchen can collect and transport those materials related to such construction in a fixed body vehicle for no additional fee without obtaining a non-exclusive C&D debris franchise agreement granted by the City.
    - II. As an additional example, a contractor whose responsibility with relation to the project is to clean up a site and transport C&D debris generated by other contractors or the owner/occupant must obtain a non-exclusive C&D debris franchise agreement from the City, and the collection and transport of such C&D debris from the site by such contractor is not
    - III. Nothing in this section shall authorize a demolition contractor performing demolition services in relation to a City-approved building or demolition permit to collect and transport C&D debris without obtaining an executed non-exclusive C&D debris franchise agreement granted by the City.
  - (d) Projects on City Property. C&D debris removed from a project site by City employees, provided that the C&D debris being removed is generated from a City-owned property.
- 3. Effective until December 31, 2015, those persons who have submitted a complete application for a non-exclusive C&D debris franchise agreement to the City may collect or transport construction and demolition debris within the City provided they do so in accordance with the
- terms and conditions of the City's non-exclusive construction and demolition debris franchise agreement. Such compliance shall include the fulfillment of the obligations of the non-exclusive franchise agreements and this chapter. C. Construction and demolition debris collected under this chapter shall only be transported to and processed and/or disposed of at facilities permitted to

accept, process and/or dispose of construction and demolition debris under applicable law. D. The following materials shall not be collected under this chapter unless a collector is otherwise authorized to do so by applicable law: hazardous waste

(as defined by Section 8.28.010), medical waste (as defined by Section 8.28.010), unacceptable waste (as defined by Section 8.28.010), batteries, human waste and other potentially infectious material, and liquid wastes.

E. Nothing in this Section 15.34.040 shall prevent other persons from collecting, transporting, processing and/or marketing materials that have been source separated by material type.

15.34.045 - City fees. award of a franchise agreement.

15.34.050 - Submission of a waste reduction and recycling plan (WRRP). A. WRRP Forms. For affected projects, prior to issuance of a building or demolition permit, the applicant shall complete and submit a WRRP form to the City's Building Official. The completed WRRP form shall delineate all of the following: The estimated volume or weight of the affected project C&D debris to be generated, listed by each type of material; and Volume or weight of the C&D debris to be reused, salvaged or recycled listed by each type of material; and

15.34.060 - Review of WRRP. A. Notwithstanding any other provision of this chapter, no building or demolition permit shall be issued by the City for any affected project prior to approval of the WRRP by the WRR Review Official. Approval shall not be required if an emergency demolition is required to protect public health or safety pursuant to Section 15.36.080.

15.34.070 - Submission of a completed summary report. A. Documentation. At the conclusion of each affected project and prior to the final inspection, issuance of temporary certificate of occupancy, or certificate of occupancy by the City, the applicant shall submit to the Building Official a summary report which contains the following documentation: 1. The actual volume or weight of C&D debris that was diverted by type of material, diversion method, and the actual volume or weight of C&D debris that was

not diverted;

B. Determination of Diversion. The WRR Review Official shall review the information submitted under Section 15.34.050(A) to determine whether the applicant has diverted 50 percent by weight of the C&D debris based on established guidelines, as follows: 1. Diversion Attainment. The applicant shall be found to have achieved a diversion attainment if at least 50 percent by weight of the C&D debris generated by the affected project is diverted, and appropriate documentation as outlined in Section 15.34.070 is provided.

2. Good Faith Effort. When the WRR Review Official determines that the affected project has not achieved diversion attainment, he/she shall determine whether the applicant has made a good faith effort to comply with this Chapter 15.34. In making this determination, the WRR Review Official may consider information submitted by the applicant, the availability of markets for the C&D debris that was not diverted, the size and type of project, the documented efforts of the applicant to divert C&D debris, and barriers encountered.

3. Nonattainment. The WRR Review Official shall determine the affected project to have a nonattainment status if he/she determines that the applicant has not made a good faith effort to achieve diversion attainment or if the applicant fails to submit the documentation required by Section 15.34.070. All nonattainment information including applicant name, type and size of project, and any reason for nonattainment shall be documented by the WRR Review Official.

15.34.080 - City's rights to monitor and inspect. A. Audit. City's WRR Review Official may inspect and monitor all affected projects to determine levels of actual diversion activities and validate the information provided in the WRRP and summary report. B. Supporting Documentation. Applicant shall retain the receipts or weight tickets for the quantities of materials reused, salvaged, recycled and landfilled as indicated in the summary report form for one year after the final inspection, and issuance of temporary certificate of occupancy or certificate of occupancy. C. Materials Targeted for Diversion. The City Administrator or his/her designee may change the C&D debris materials targeted for diversion from time to time, based on local markets and conditions to further the intent of this chapter.

15.34.090 - Appeals. An appeal of the WRR Official's decision not to approve the WRRP shall be made to the Hearing Officer according to the following appeal procedures: A. Within ten calendar days after the date of a written decision by the WRR Review Official to deny the WRRP, an appeal in writing from said decision must be filed with the WRR Review Official by the applicant or any other interested party on a form prescribed by the WRR Review Official. The appeal shall state specifically the error, abuse of discretion, or claim where the decision of the WRR Review Official was not supported by substantial evidence in the record. B. Upon receipt of the appeal, the Hearing Officer shall set the date for consideration thereof and, not less than ten days prior thereto, give a written notice to the applicant and or appellant. C. In deciding the appeal, the Hearing Officer shall consider the purpose and intent, as well as the letter, of the pertinent provisions of this Chapter 15.34, and shall affirm, modify, or reverse the written decision of the WRR Review Official. D. The written decision of the Hearing Officer shall be final.

E. Appeal fees shall be in accordance with the City's master fee schedule. 15.34.100 - Violations, enforcement and remedies. A. Penalty for Violation. Any person convicted of an infraction under the provision of this chapter shall be punished upon a first conviction by a fine of not more than \$100.00 and, for a second conviction within a period of one year, by a fine of not more than \$200.00 and, for a third or any subsequent conviction within a one-year period, by a fine of not more than \$500.00. Any violation beyond the third conviction within a one-year period may be charged by the City Attorney or the District Attorney as a misdemeanor and the penalty for conviction of the same shall be punishable by a fine of not more than \$1,000.00 or by imprisonment in the county jail for a period of not more than six months or by both.

B. Continuing Violation. Unless otherwise provided, a person shall be deemed guilty of a separate offense for each and every day during any portion of which a violation of this chapter is committed, continued or permitted by the person and shall be punishable accordingly as herein provided. C. Violations Deemed a Public Nuisance. In addition to the penalties herein provided, any condition caused or permitted to exist in violation of any of the rovisions of this chapter is a threat to the public health, safety and welfare, and is declared and deemed a nuisance. D. Civil Actions. In addition to any other remedies provided in this chapter, any violation of this chapter may be enforced by civil action brought by the City. In

any such action, the City may seek, and the court shall grant, as appropriate, any or all of the following remedies: 1. A temporary and/or permanent injunction; 2. Assessment of the violator for the costs of any investigation, inspection, or monitoring survey which led to the establishment of the violation, and for the

reasonable costs of preparing and bringing legal action under this subsection (including attorneys' fees); 3. Costs incurred in removing, correcting, or terminating the adverse effects resulting from the violation (including attorneys' fees).

Authority to Issue Citations. Authorized enforcement officials or employees may issue a citation and notice to appear in the manner prescribed by Chapter 5c of Title 3, Part 2 of the Penal Code, including Section 853.6 (or as the same may hereafter be amended). It is the intent of the City Council that the immunities prescribed in Section 836.5 of the Penal Code be applicable to public officers or employees or employees acting in the course and scope of employment pursuant to this chapter

F. Administrative Enforcement Option. Chapters 1.08, 1.12 and 1.16 of this Code, which provide for alternative code enforcement mechanisms, including but not limited to a civil penalty program and an administrative citation program, are incorporated by reference as if fully set forth herein. G. Remedies Not Exclusive. Remedies under this chapter are in addition to and do not supersede or limit any and all other remedies, civil or criminal. The remedies provided for herein shall be cumulative and not exclusive.

considered as "incidental to the service being performed".

The City may collect from non-exclusive C&D debris franchisees monies to recover the cost of administering the C&D debris program and in consideration of

3. The estimated volume or weight of C&D debris that will be landfilled listed by each type of material.

B. Using the established guidelines, the WRR Review Official shall approve a WRRP only if: The WRRP provides all the information set forth in Section 15.34.050 of this chapter; and

The WRRP indicates that at least 50 percent by weight of all C&D debris generated by the project will be diverted; or

3. The applicant demonstrates good cause as to why at least 50 percent by weight of all C&D debris generated by the project will not be diverted. If the WRR Review Official fails to approve the WRRP, he/she shall explain in writing the basis for denial.

2. Any additional information the applicant believes is relevant to determining its efforts to comply in good faith with this Chapter 15.34:

3. Any barriers encountered that prohibited diversion of C&D debris: and 4. Any recommended actions that would further the efforts to recycle C&D debris.

Construction Waste Management

Recycling by Occupants Provide adequate space and equal access for storage, collection and loading of compostable, recyclable and landfill materials.

Adhesives, <u>sealants, and caulks</u> Comply with VOC limits in SCAQMD Rule 1168 VOC limits and California Code of Regulations Title 17 for aerosol adhesives. (CalGreen 5.504.4.1)

Paints and coating Comply with VOC limits in the Air Resources Board Architectural Coatings Suggested Control Measure and California Code of Regulations Title 17 for aerosol paints. (CalGreen 5.504.4.3.1)

All carpet must meet one of the following: 1. Carpet and Rug Institute Green Label Plus Program,

2. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350), 3. NSF/ANSI 140 at the Gold level,

4. Scientific Certifications Systems Sustainable Choice, OR 5. California Collaborative for High Performance Schools EQ 2.2 and listed in the CHPS High Performance Product Database AND carpet cushion must meet Carpet and Rug Institute Green Label,

AND indoor carpet adhesive & carpet pad adhesive must not exceed 50 g/L VOC content.

Resilient flo<u>oring systems</u>

For 80% of floor area receiving resilient flooring, install resilient flooring complying with: 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program, 2. Compliant with the VOC-emission limits and testing requirements of California Department of Public Health 2010 Standard Method for the Testing and

- Evaluation Chambers v.1.1.

Temporary Ventilation

If the HVAC system is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy. Applies to additions or alterations. (CalGreen 5.504.1)

### Testing and Adusting:

. Develop and implement a plan of procedures for testing and adjusting new systems, including (as applicable): HVAC; indoor and outdoor lighting and controls; water heating; renewable energy; landscape irrigation; and water reuse systems. 2. Balance new HVAC systems before operation for normal use. 3. Provide the Owner or representative with a final report of testing.

(CalGreen 5.410.4 through 5.410.4.5.1)

Provide at least MERV-8 filters in regularly occupied spaces of mechanically ventilated buildings. Installed filters must be clearly labeled by the manufacturer indicating the MERV rating, and filter specification shall be included in the operation and maintenance manual. (CalGreen5.504.5.3 through 5.504.5.3.1)

Indoor Water Efficiency

Existing Noncompliant Plumbing Fixtures All fixtures that are not compliant with the City of Brisbane Indoor Water Conservation Regulations that serve or are located within the project area must be replaced with fixtures or fittings meeting the maximum flow rates and standards referenced above. Noncompliant plumbing fixtures include:

• Any toilet manufactured for use more than 1.6 gallons of water per flush. • Any urinal manufactured for use more than 1 gallon of water per flush. • Any showerhead manufactured to have a flow capacity of more than 2.5 gallons of water per minute.

• Any interior faucet that emits more than 2.2 gallons of water per minute.

## GREEN BUILDING CODE REQUIREMENTS

Contractor is to comply with the City of Oakland's Construction and Demolition Debris Waste Reduction and Recycling Ordinance

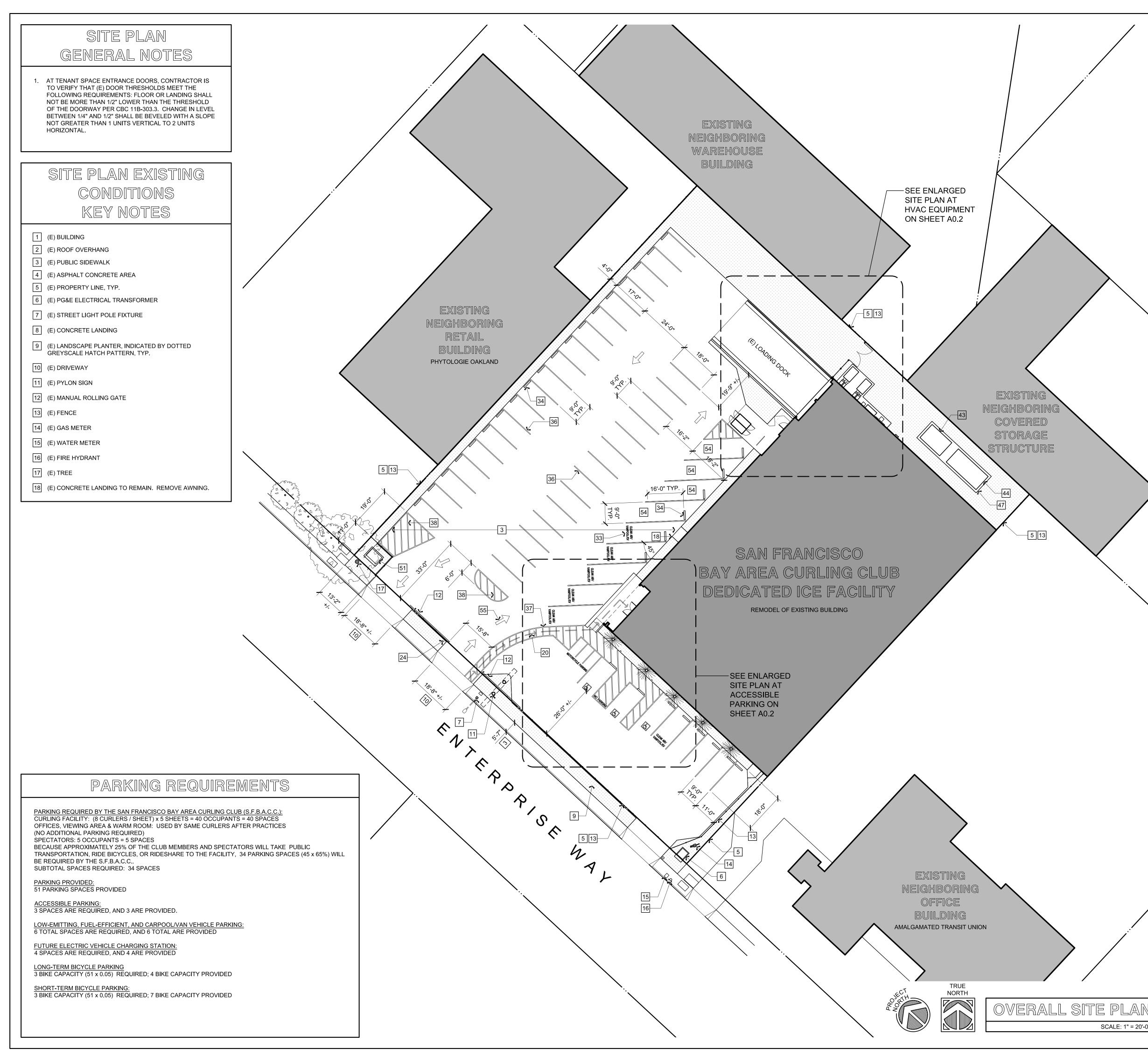
<u>Composite wood</u> Meet CARB Air Toxics Control Measure for Composite Wood including meeting the emission limits in CalGreen Table 5.504.4.5.

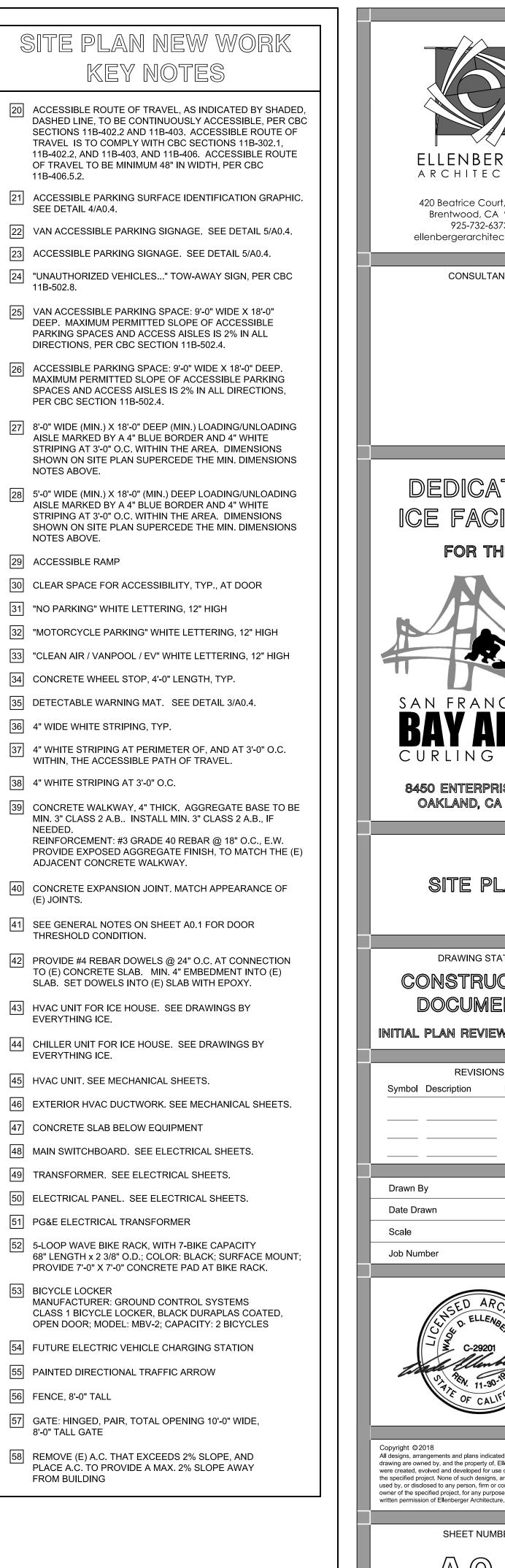
3. Compliant with the Collaborative for High Performance Schools (CHPS) EQ2.2 and listed in the CHPS High Performance Product Database, OR 4. Certified under the Greenquard Children & Schools Program to comply with California Department of Public Health criteria. (CalGreen 5.504.4.4 and 5.504.4.6)

4. Provide the building representative with detailed operating and maintenance instructions and copies of all guarantees/warranties for each system.

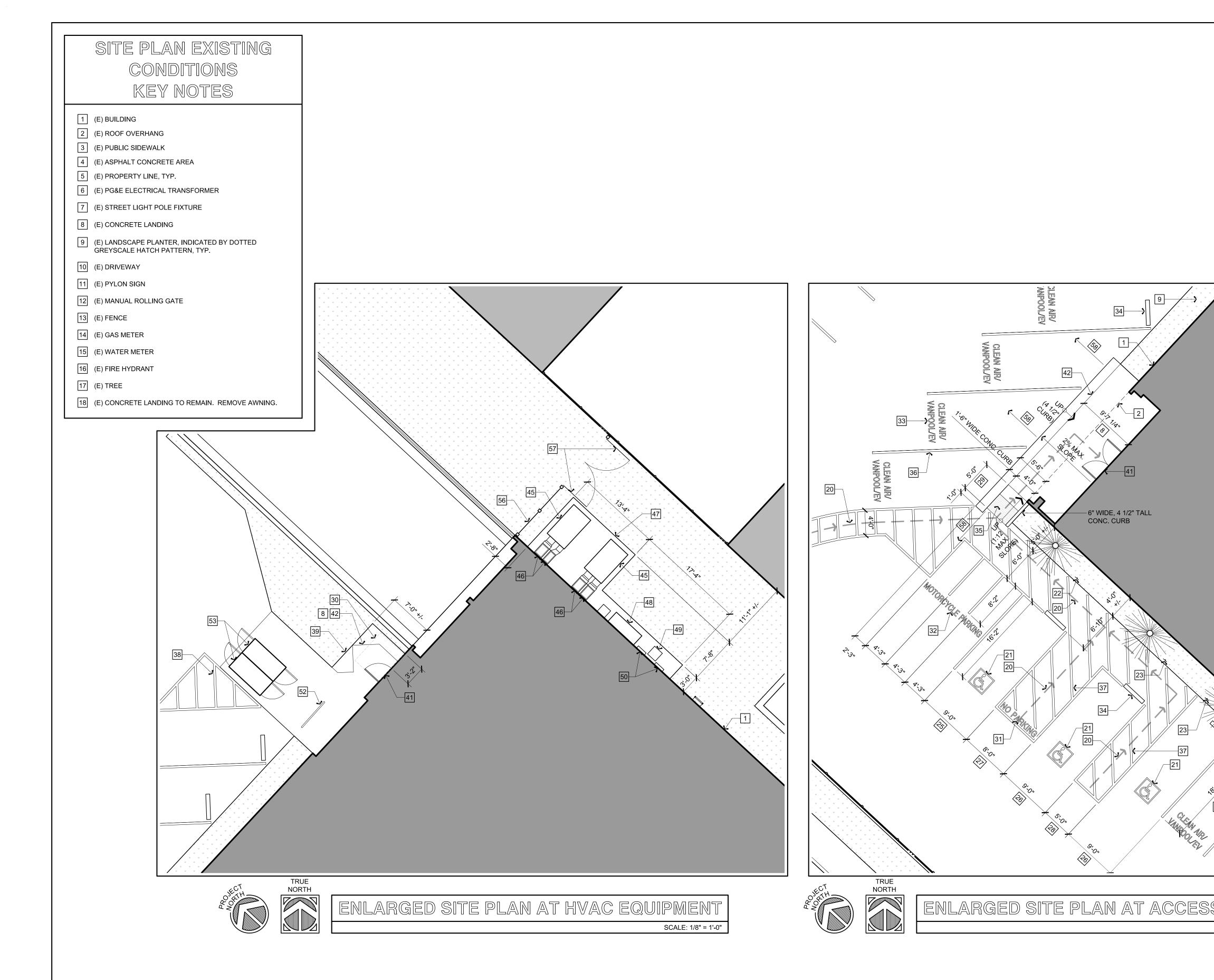
Install compliant fixtures. Replace all noncompliant fixtures, including existing fixtures, in project area. Fix leaks.

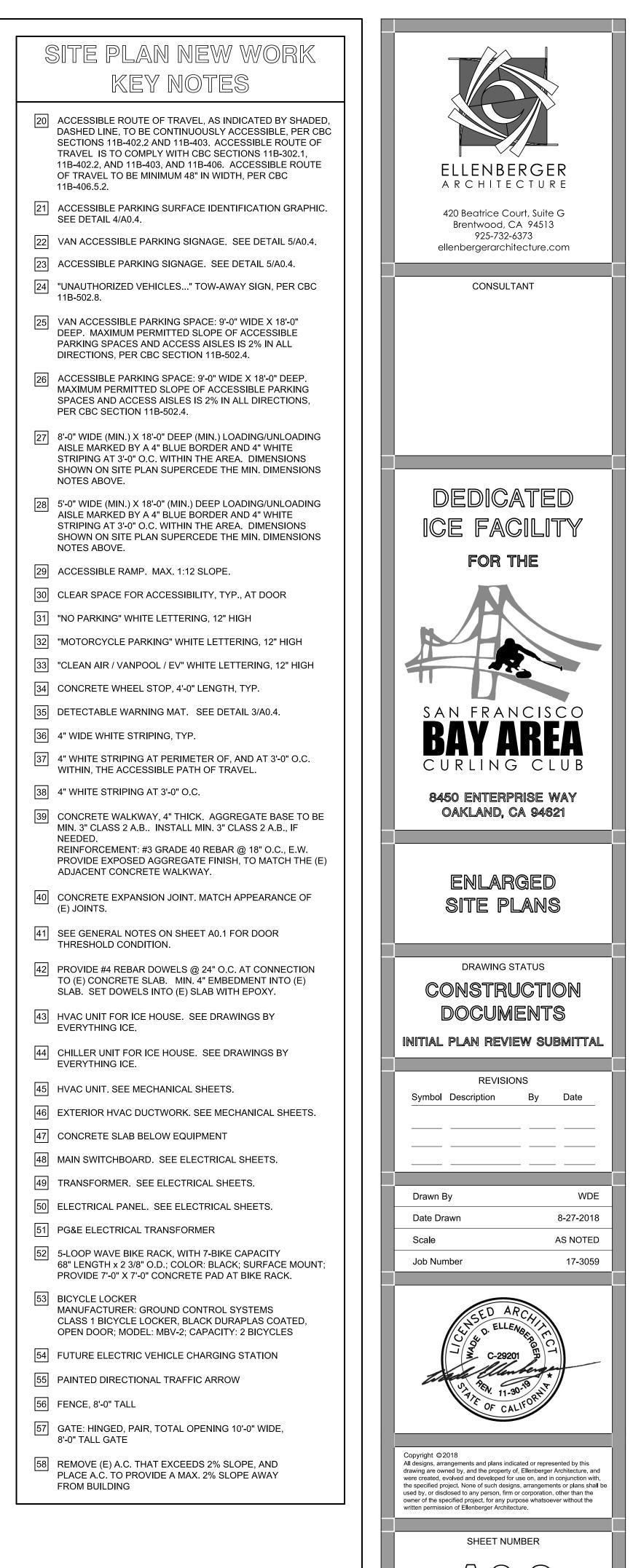


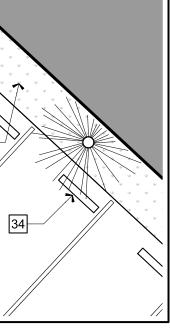




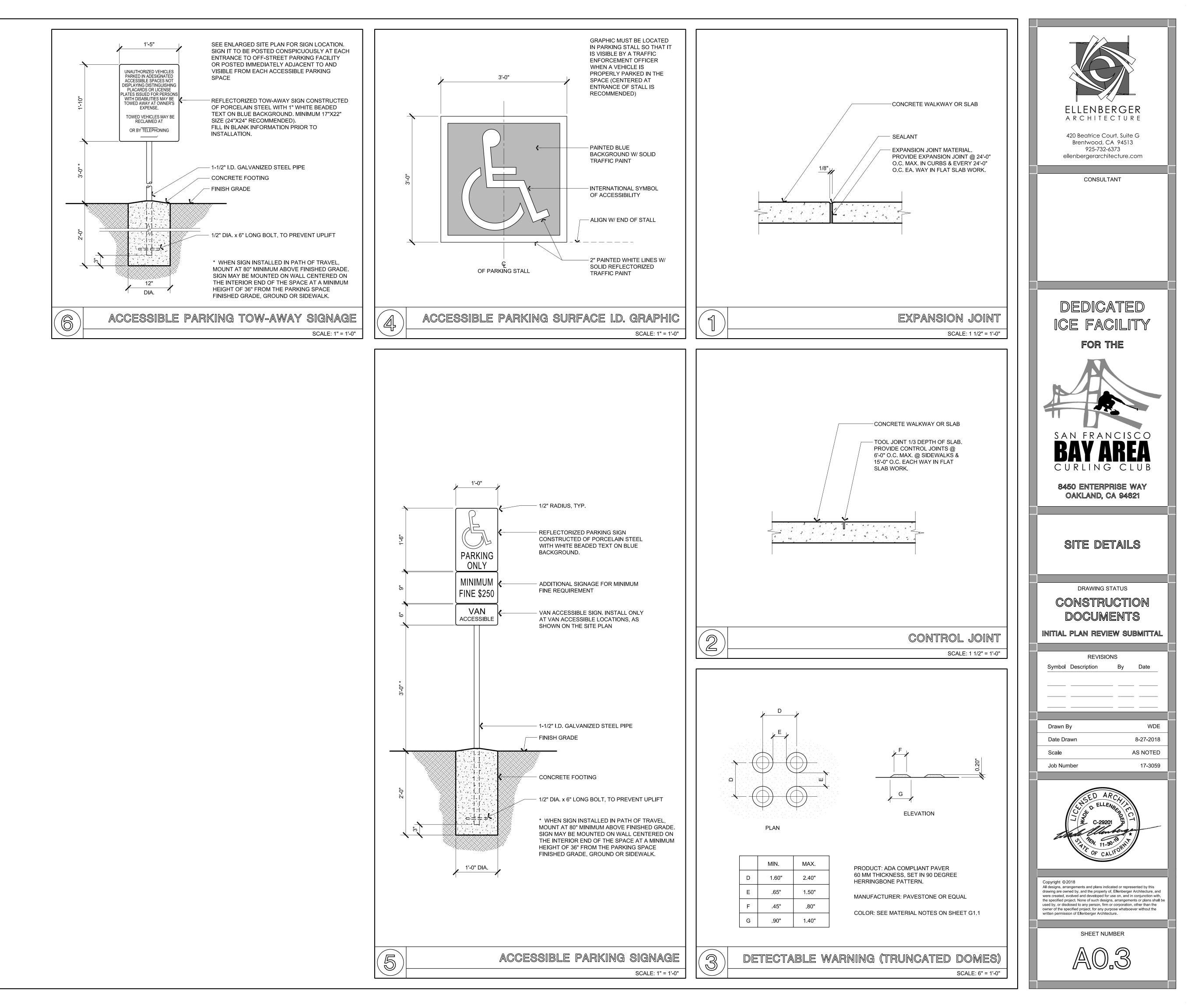


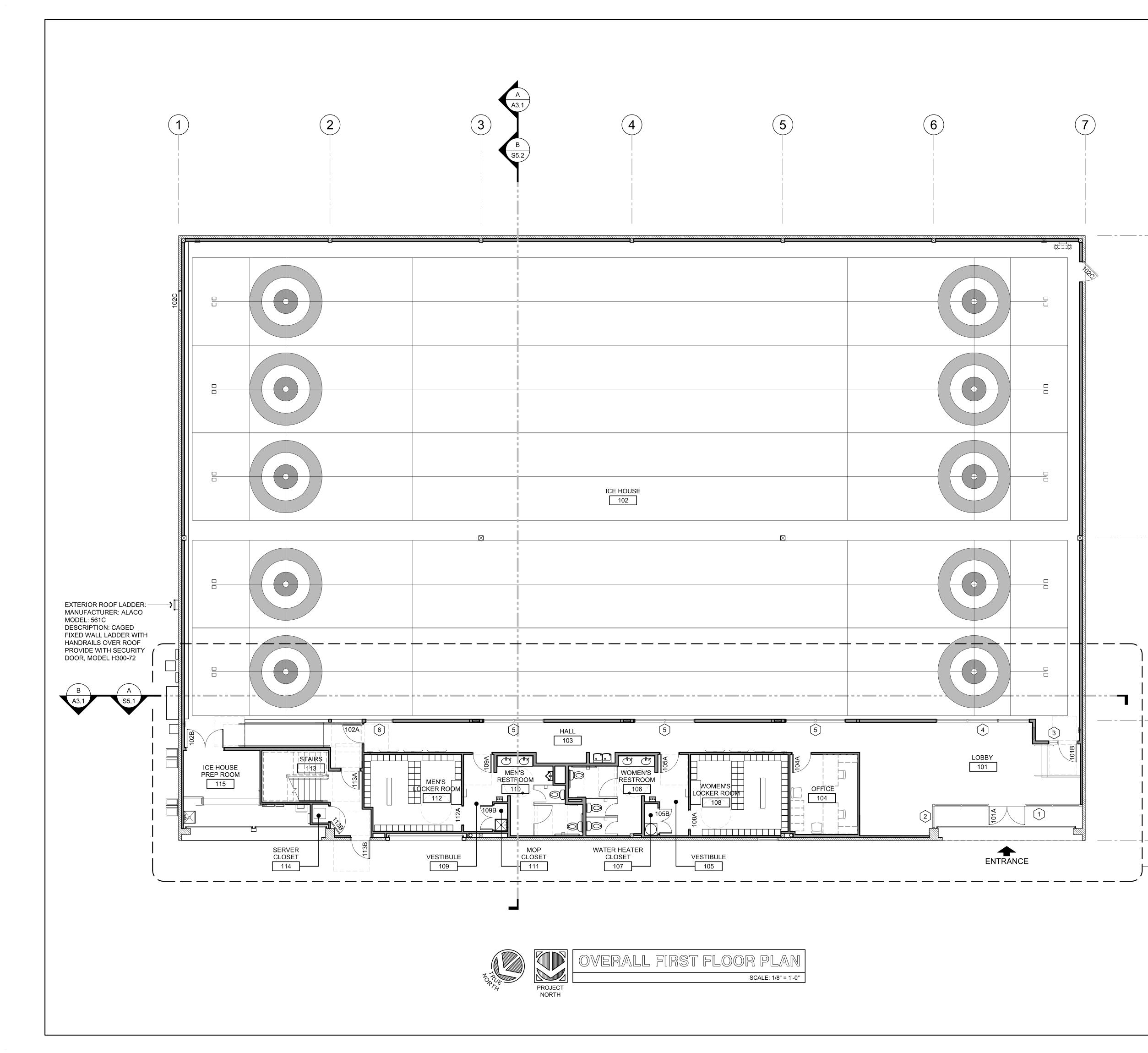






ESSIBLE PARKING scale: 1/8" = 1'-0"





## LEGEND

EXISTING TILT-UP CONCRETE WALL

EXISTING WOOD STUD WALL
METAL STUD WALL
EXISTING DOOR AND FRAME
DOOR AND FRAME
WINDOW

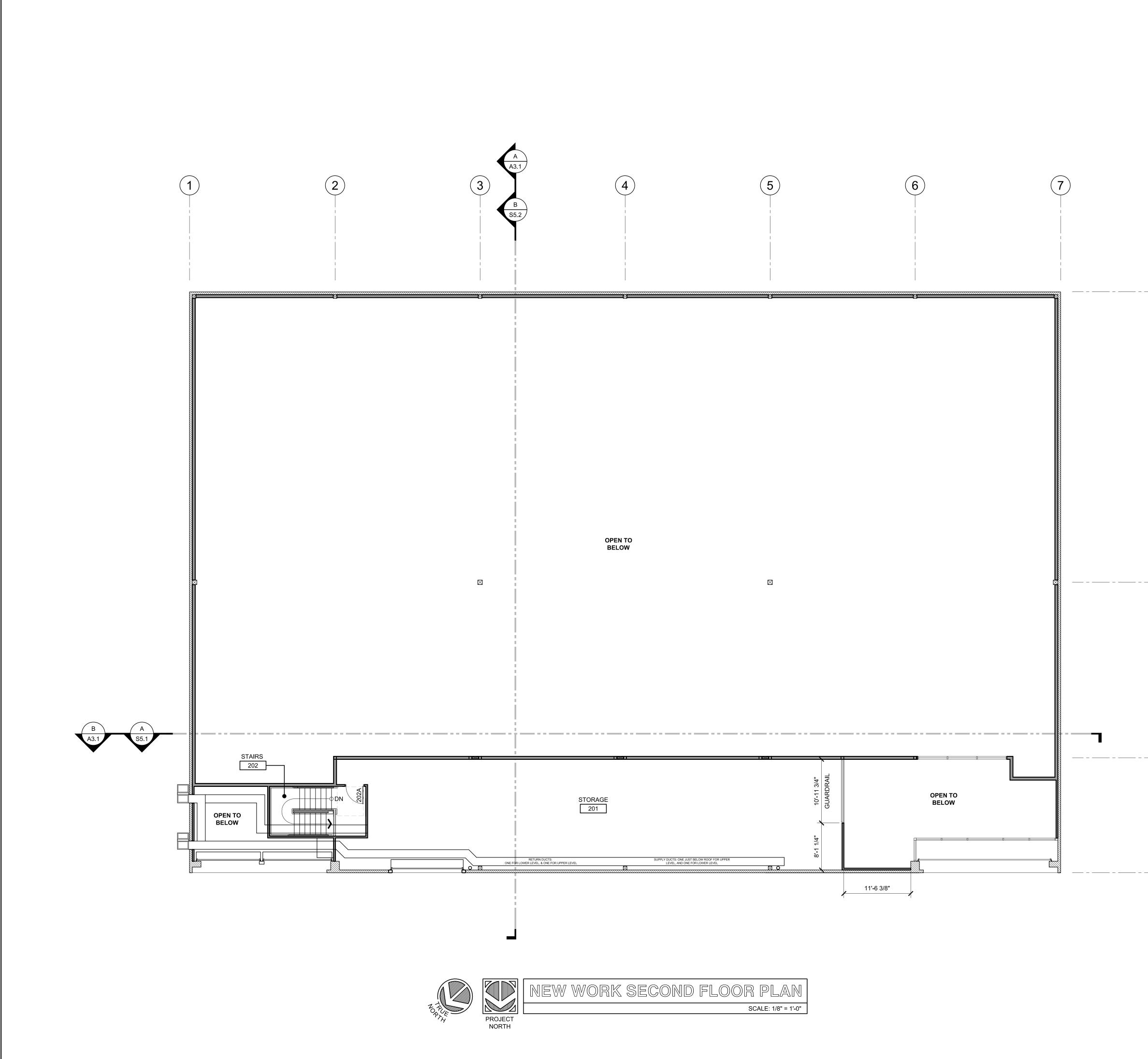
## -(A)

 $-(\mathbf{B})$ 

-(C)

## -SEE ENLARGED FLOOR PLANS ON SHEET A4.1

ELLENBERGER ARCHITECTURE 420 Beatrice Court, Suite G Brentwood, CA 94513 925-732-6373 ellenbergerarchitecture.com CONSULTANT DEDICATED ICE FACILITY FOR THE SAN FRANCISCO An CURLING CLUB 8450 ENTERPRISE WAY oakland, ca 94621 OVERALL FIRST FLOOR PLAN DRAWING STATUS CONSTRUCTION DOCUMENTS INITIAL PLAN REVIEW SUBMITTAL REVISIONS Symbol Description By Date WDE Drawn By Date Drawn 8-27-2018 Scale AS NOTED Job Number 17-3059 Copyright ©2018 All designs, arrangements and plans indicated or represented by this drawing are owned by, and the property of, Ellenberger Architecture, and were created, evolved and developed for use on, and in conjunction with, the specified project. None of such designs, arrangements or plans shall be used by, or disclosed to any person, firm or corporation, other than the owner of the specified project, for any purpose whatsoever without the written promision of Ellenberger Architecture. written permission of Ellenberger Architecture. SHEET NUMBER A2.'



## LEGEND

EXISTING TILT-UP CONCRETE WALL

EXISTING WOOD STUD WALL METAL STUD WALL

-(A)

-(B)

-(C)

-(D)

DOOR AND FRAME

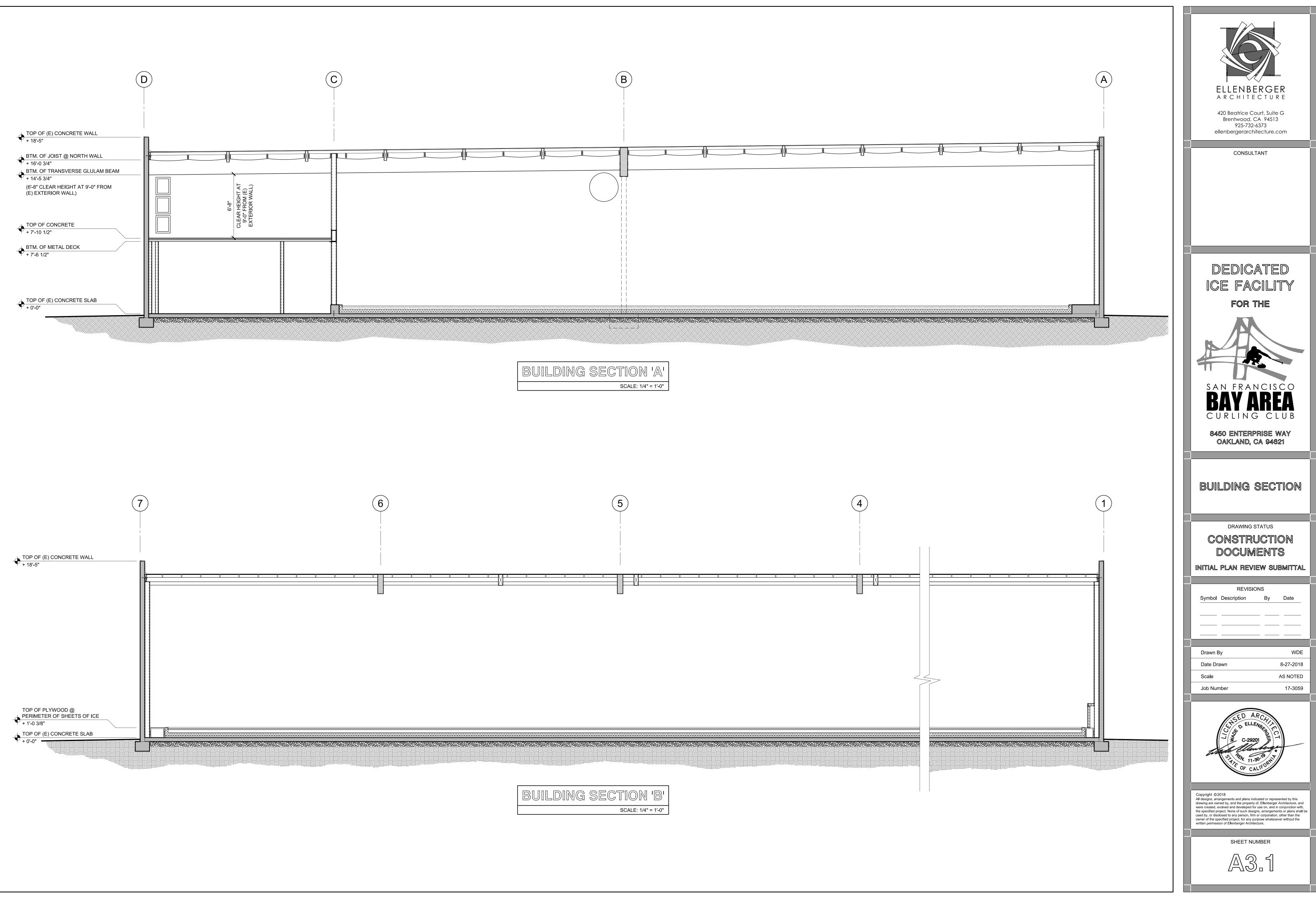
420 Beatrice Court, Suite G Brentwood, CA 94513 925-732-6373 ellenbergerarchitecture.com CONSULTANT DEDICATED ICE FACILITY FOR THE SAN FRANCISCO ' AREA CURLING CLUB 8450 ENTERPRISE WAY oakland, ca 94621 NEW WORK SECOND FLOOR PLAN DRAWING STATUS CONSTRUCTION DOCUMENTS INITIAL PLAN REVIEW SUBMITTAL REVISIONS Symbol Description By Date WDE Drawn By Date Drawn 8-27-2018 Scale AS NOTED Job Number 17-3059 Copyright ©2018 All designs, arrangements and plans indicated or represented by this drawing are owned by, and the property of, Ellenberger Architecture, and were created, evolved and developed for use on, and in conjunction with, the specified project. None of such designs, arrangements or plans shall be used by, or disclosed to any person, firm or corporation, other than the owner of the specified project, for any purpose whatsoever without the written promision of Ellenberger Architecture. written permission of Ellenberger Architecture. SHEET NUMBER

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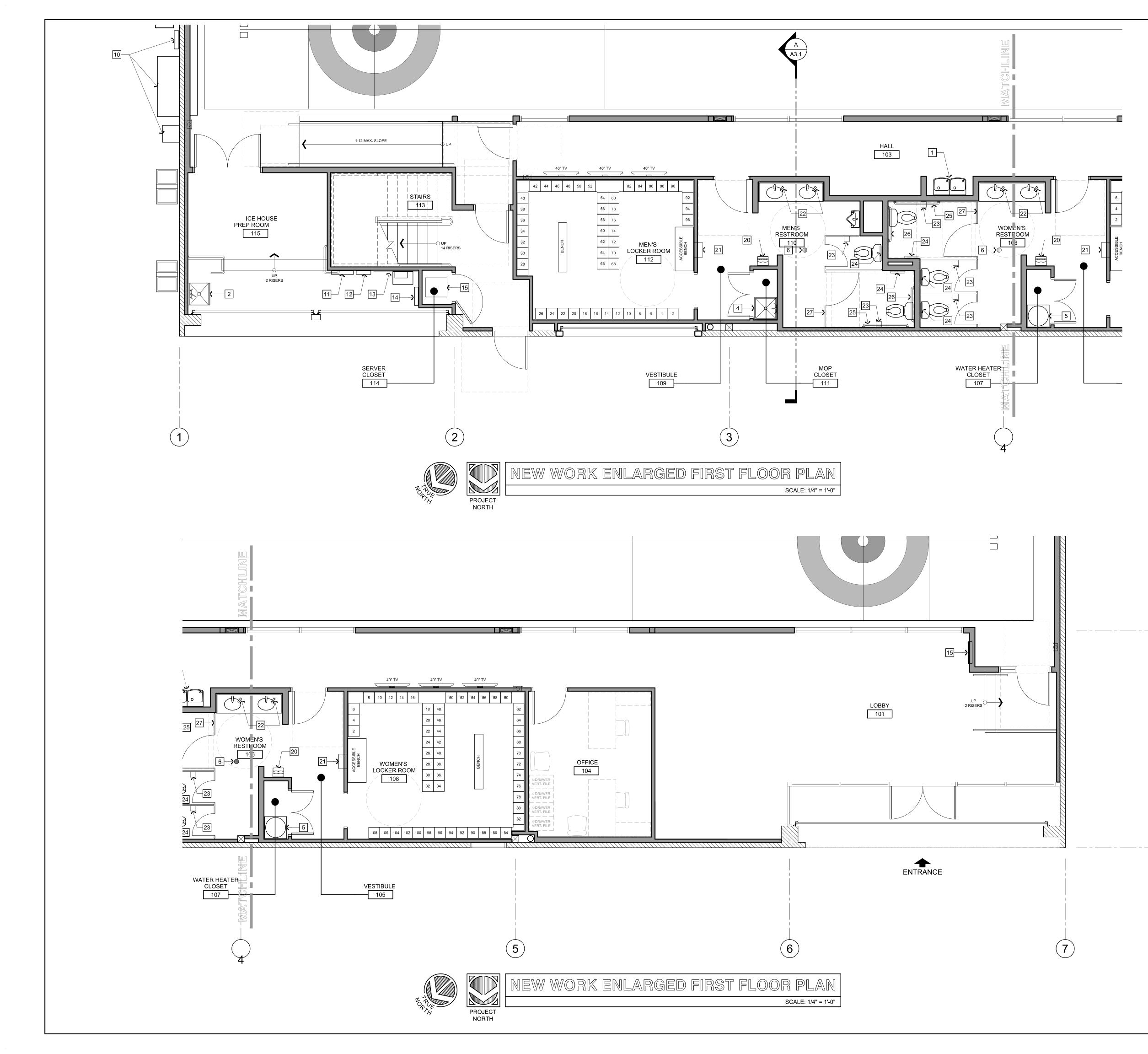
 $\square$ 

ELLENBERGER

ARCHITECTURE



BUILDING SECTION 'A'
SCALE: 1/4" = 1'-0"

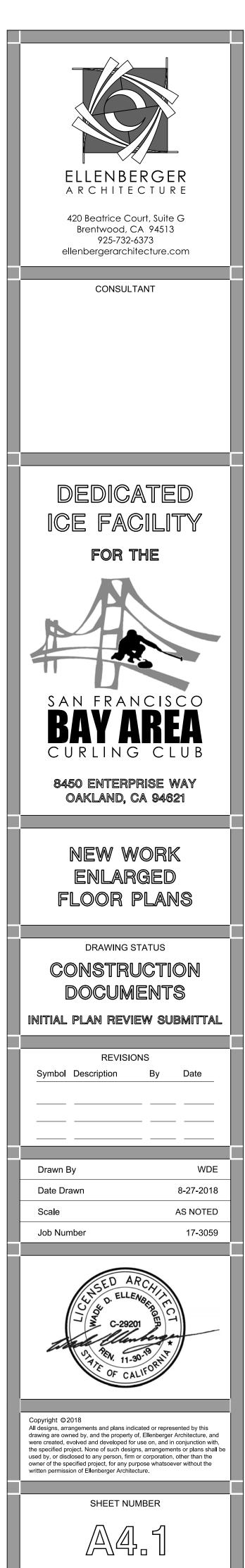


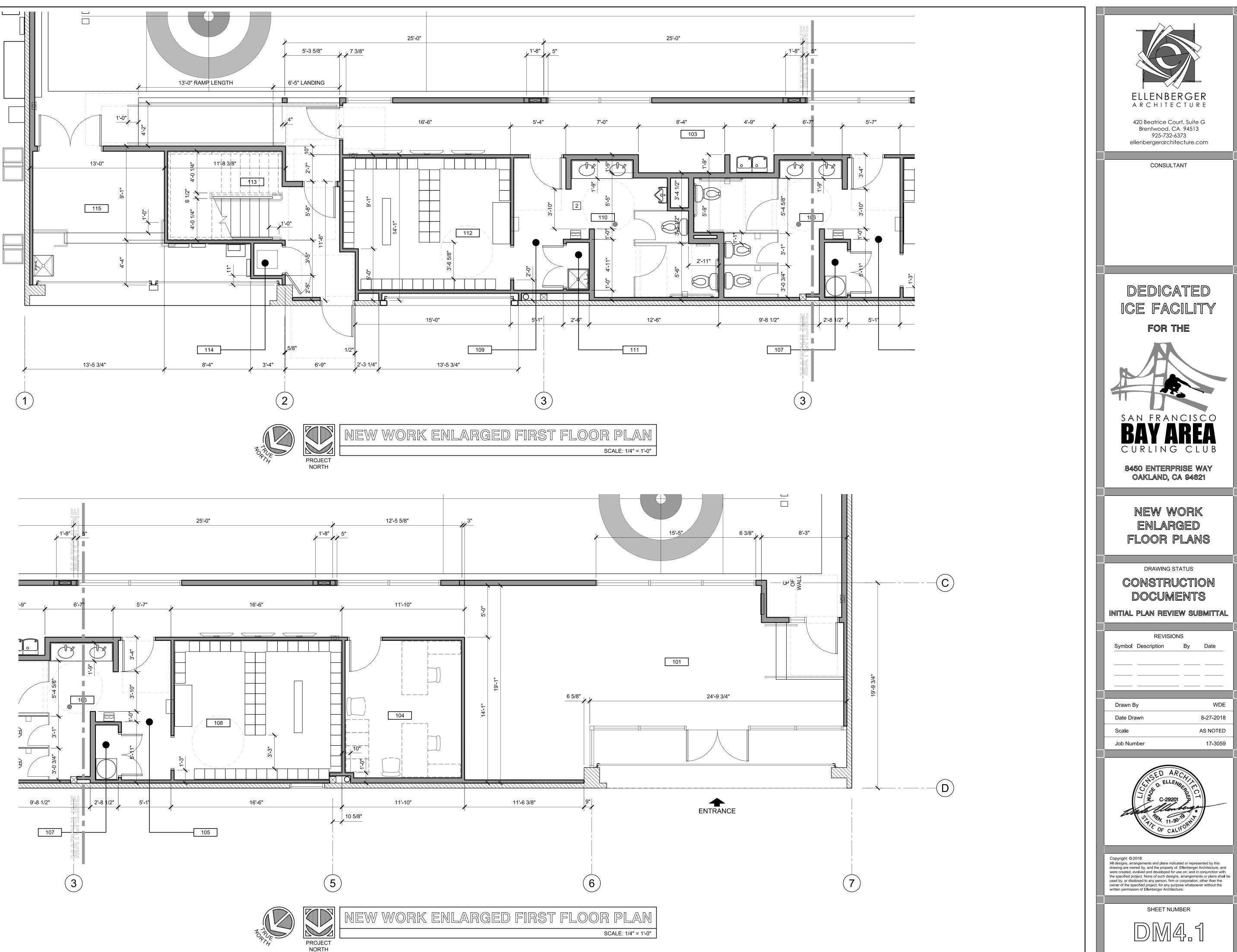
	NLARGED FLOOR PLAN
	SHEET NOTES
1	BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING DRAWINGS.
2	UTILITY SINK. SEE PLUMBING DRAWINGS.
3	FIRE RISER AND ALARM
4	MOP SINK. SEE PLUMBING DRAWINGS.
5	WATERHEATER & RECIRCULATING PUMP. SEE PLUMBING DRAWINGS.
6	FLOOR DRAIN. SEE PLUMBING DRAWINGS.
10	SEE ELECTRICAL DRAWINGS AND ENLARGED SITE PLAN FOR EXTERIOR ELECTRICAL EQUIPMENT.
11	LIGHTING CONTROL PANEL. SEE ELECTRICAL DRAWINGS.
12	SECURITY ALARM PANEL
13	TELEPHONE BOARD. 4' X 4' FIRE-RATED PLYWOOD.
14	FIRE ALARM CONTROL PANEL
15	SERVER CABINET
16	ICE HOUSE LIGHTING CONTROL PANEL
20	ELECTRIC HAND DRYER: DYSON AIRBLADE dB (GRAY)
21	ELECTRIC SEMI-RECESSED TOWEL DISPENSER: BOBRICK B-29744 W/ AC ADAPTER: BOBRICK 3974-57
22	ELECTRIC SOAP DISPENSER: BOBRICK B-826 AUTOMATIC LAVATORY-MOUNTED, W/ AC ADAPTER: BOBRICK 826-20
23	TOILET PAPER DISPENSER: BOBRICK B-2888
24	SEAT COVER DISPENSER: BOBRICK B-2111
25	48" GRAB BAR
26	36" GRAB BAR

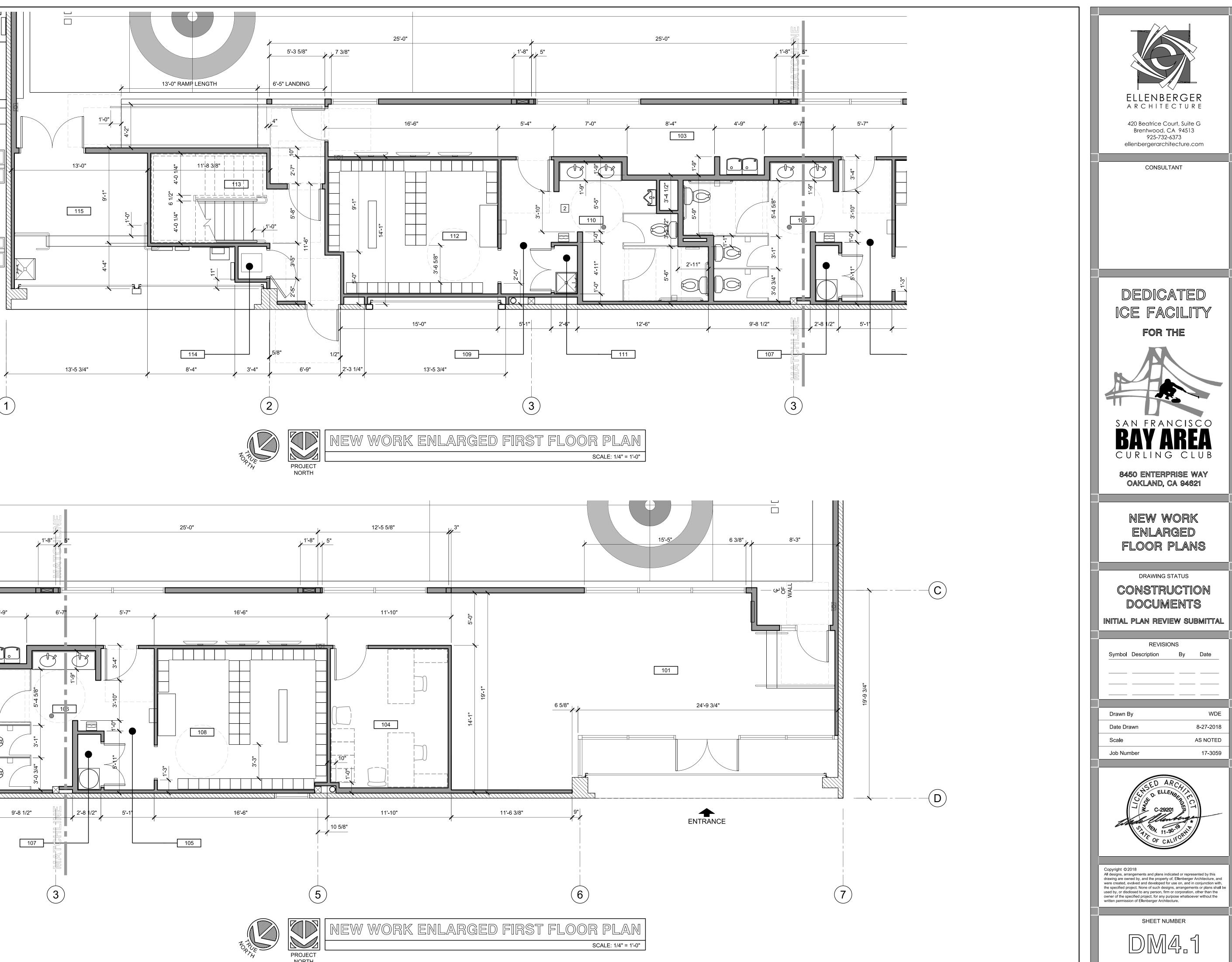
27 TOILET PARTITIONS



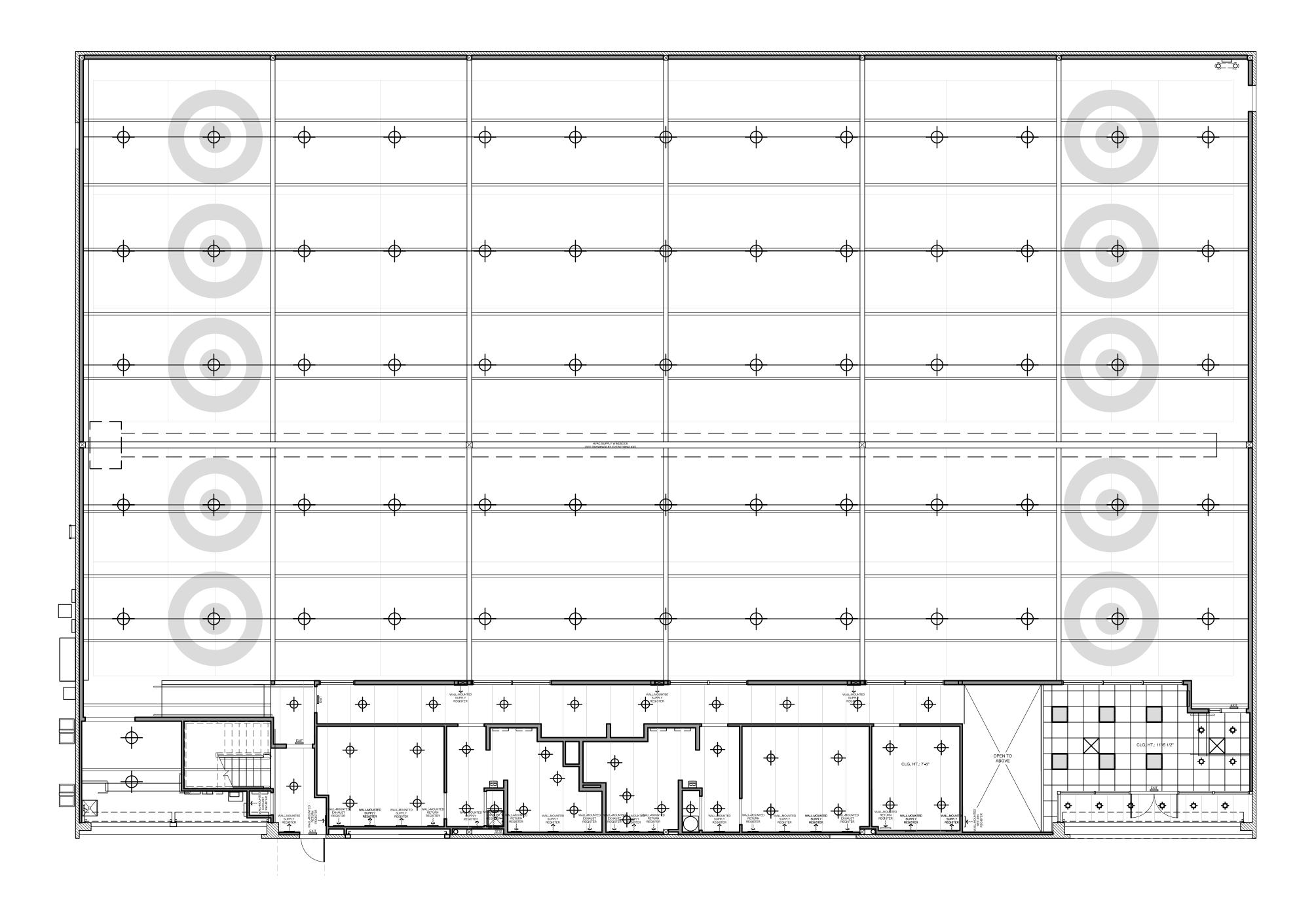
-(D)













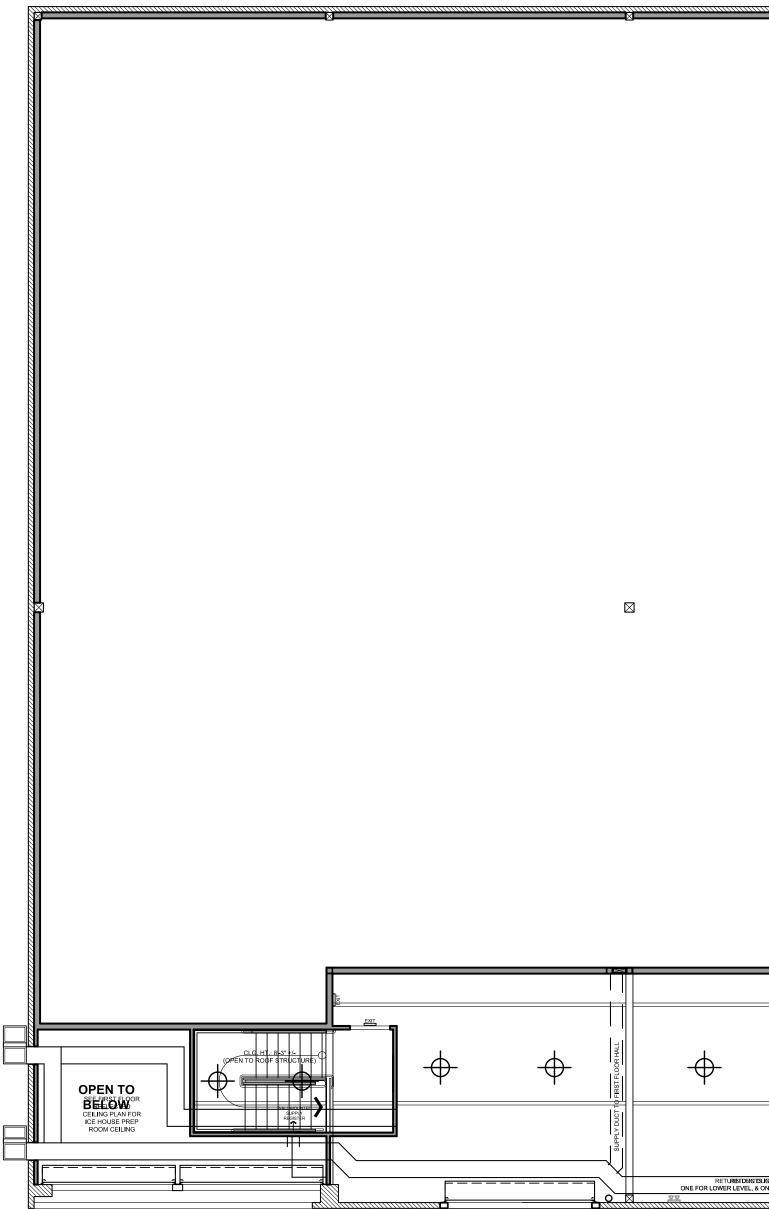


## FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

LEGEND
SUSPENDED ACOUSTICAL CEILING IN 2'X2' GRID
OPEN TO EXPOSED METAL DECK
2'x2' LAY-IN LED LIGHT FIXTURE
- CAN LIGHT FIXTURE
□ □ WALL-MOUNTED VANITY LIGHT FIXTURE
- SURFACE MOUNTED LED LIGHT FIXTURE
HVAC SUPPLY DIFFUSER
HVAC RETURN REGISTER
<ul> <li>✓ HVAC EXHAUST REGISTER</li> <li>✓ EXIT SIGN W/ EMERGENCY LIGHTING.</li> </ul>
GENERAL NOTES
A. CEILING HEIGHT IS 7'-6" A.F.F., UNLESS OTHERWISE NOTED.
B. MAINTAIN CEILING HEIGHTS AND LIGHTING LAYOUT PATTERNS SHOWN, UNLESS OTHERWISE APPROVED BY ARCHITECT. CONFLICTS CAUSED BY DUCTWORK, SPRINKLER PIPING, CONDUIT, AND/OR OTHER ITEMS OR FEATURES OF CONSTRUCTION DOES NOT CONSTITUTE CAUSE FOR VARIANCE FROM CEILING HEIGHTS AND/OR LIGHTING LAYOUTS INDICATED IN THESE DRAWINGS. COORDINATE ALL WORK TO ACHIEVE HEIGHTS AND LAYOUTS AS INDICATED IN THESE DRAWINGS.
C. AT ACOUSTICAL TILE CEILINGS, ALL FIXTURES AND EQUIPMENT ARE TO BE CENTERED WITHIN CEILING TILES, IN BOTH DIRECTIONS.
D. REFER TO MECHANICAL, ELECTRICAL, FIRE SPRINKLER (DEFERRED PERMIT APPROVAL) AND SECURITY DRAWINGS FOR ADDITIONAL CONSTRUCTION FEATURES, SYSTEMS, FIXTURES, AND EQUIPMENT LOCATED IN, ON, AND ABOVE CEILINGS. THESE ITEMS ARE SHOWN ON REFLECTED CEILING PLANS FOR GENERAL INFORMATION AND LAYOUT PURPOSES ONLY.
E. SPRINKLER HEAD LOCATIONS SHALL RESULT IN A UNIFORM AND REPETITIVE PATTERN FOR EACH AREA, AND ARE TO BE LOCATED SYMMETRICALLY WITH RESPECT TO WALLS, CEILING GRIDS, AND LIGHT FIXTURES. SPRINKLER HEADS IN ACOUSTICAL TILE CEILINGS ARE TO BE LOCATED IN THE CENTERS OF THE CEILING TILES.

AR CHITECTURE         420 Beatrice Court, Suite G         Brentwood, CA 94513         925-732-6373         ellenbergerarchitecture.com	
CONSULTANT	
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FIRST FLOOR REFLECTED CEILING PLAN	
DRAWING STATUS  CONSTRUCTION DOCUMENTS  INITIAL PLAN REVIEWURTTAL  Symbol Description By Date           Symbol Description       By       Date         3       PLAN CHANGE       WDE       8/2/2017	
Drawn ByWDEDate Drawn8-27-2018ScaleAS NOTEDJob Number17-3059	
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SHEET NUMBER	



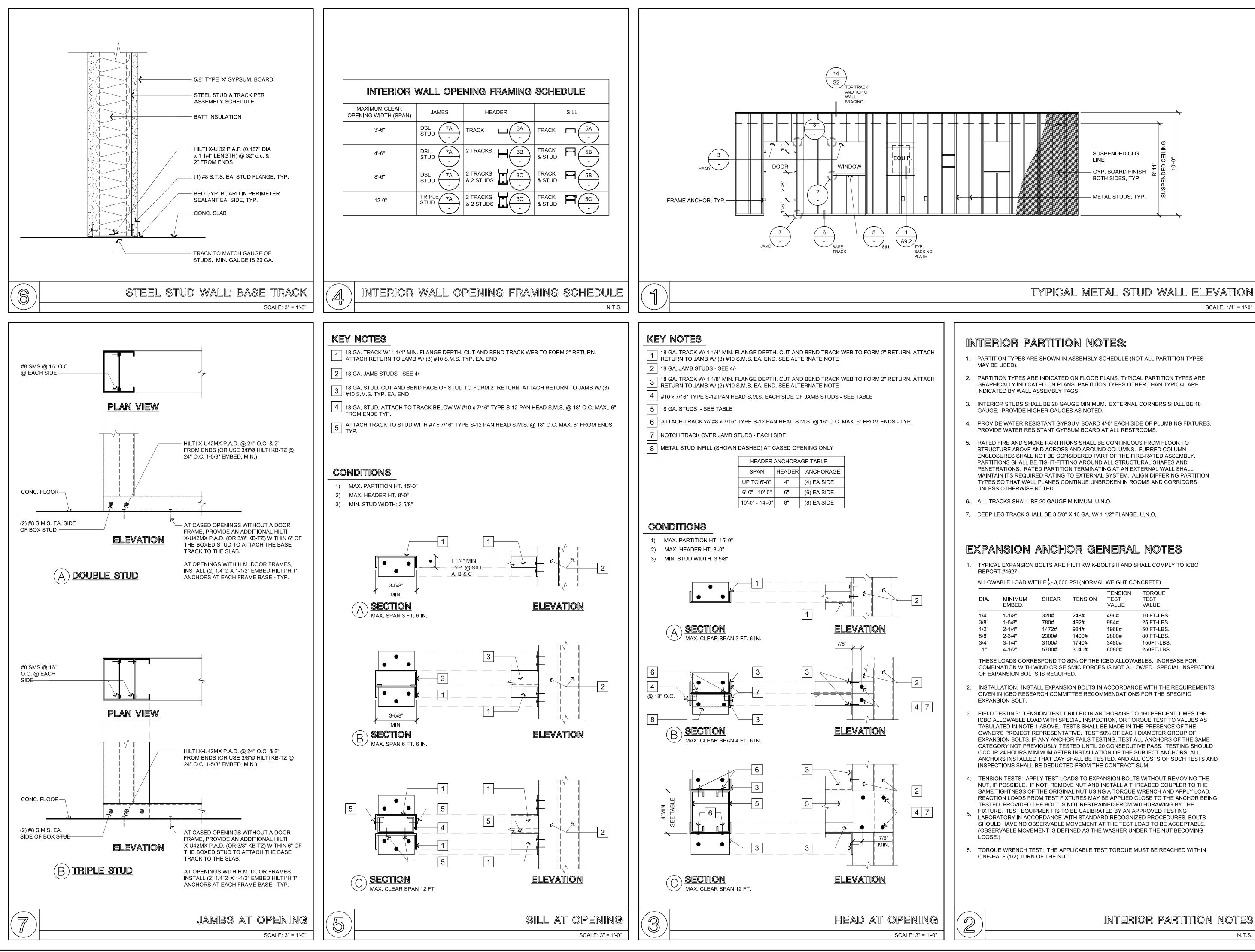


COND FLOOR REFLECTED CEILING PLA	$\mathbb{N}$
SCALE: 1/8" = 1'	-0"

		<		
		ф 	CLG. HT.: 8'-3" +/- ABOVE SECOND FLOOR (OPEN TO ROOF STRUCTURE)	OPEN TO BELOW SEE FIRST FLOOR REFLECTED CEILING PLAN FOR LOBBY CEILING
ROTELIGITERASE: L, & ONE FOR UPPER LEVEL	CLG, HT. 8*-3* +/-			

LEGEND
SUSPENDED ACOUSTICAL CEILING IN 2'X2' GRID OPEN TO EXPOSED METAL DECK 2'X2' LAY-IN LED LIGHT FIXTURE COPEN FIXTURE
□ □ WALL-MOUNTED VANITY LIGHT FIXTURE
- SURFACE MOUNTED LED LIGHT FIXTURE
HVAC RETURN REGISTER
<ul> <li>≅ EXIT SIGN W/ EMERGENCY LIGHTING.</li> <li>SEE SHEET E1.2.</li> </ul>
GENERAL NOTES
A. CEILING HEIGHT IS 7'-6" A.F.F., UNLESS OTHERWISE NOTED.
B. MAINTAIN CEILING HEIGHTS AND LIGHTING LAYOUT PATTERNS SHOWN, UNLESS OTHERWISE APPROVED BY ARCHITECT. CONFLICTS CAUSED BY DUCTWORK, SPRINKLER PIPING, CONDUIT, AND/OR OTHER ITEMS OR FEATURES OF CONSTRUCTION DOES NOT CONSTITUTE CAUSE FOR VARIANCE FROM CEILING HEIGHTS AND/OR LIGHTING LAYOUTS INDICATED IN THESE DRAWINGS. COORDINATE ALL WORK TO ACHIEVE HEIGHTS AND LAYOUTS AS INDICATED IN THESE DRAWINGS.
C. AT ACOUSTICAL TILE CEILINGS, ALL FIXTURES AND EQUIPMENT ARE TO BE CENTERED WITHIN CEILING TILES, IN BOTH DIRECTIONS.
D. REFER TO MECHANICAL, ELECTRICAL, FIRE SPRINKLER (DEFERRED PERMIT APPROVAL) AND SECURITY DRAWINGS FOR ADDITIONAL CONSTRUCTION FEATURES, SYSTEMS, FIXTURES, AND EQUIPMENT LOCATED IN, ON, AND ABOVE CEILINGS. THESE ITEMS ARE SHOWN ON REFLECTED CEILING PLANS FOR GENERAL INFORMATION AND LAYOUT PURPOSES ONLY.
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Image: Weight of the second system         ELLENBERGER         A R C H I T E C T U R E         420 Beatrice Court, Suite G         Brentwood, CA 94513         925-732-6373         ellenbergerarchitecture.com
CONSULTANT
DEDICATED
ICE FACILITY
FOR THE
T T
SAN FRANCISCO
<b>RAVARFA</b>
CURLING CLUB
8450 ENTERPRISE WAY
OAKLAND, CA 94621
SECOND FLOOR REFLECTED
CEILING PLAN
CONSTRUCTION
DOCUMENTS
REVISIONS Symbol Description By Date
<u></u> <u>PLAN CHANGE</u> WDE 8/2/2017
Drawn By WDE Date Drawn 8-27-2018
Scale AS NOTED
Job Number 17-3059
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the specified project. None of such designs, arrangements or plans shall be used by, or disclosed to any person, firm or corporation, other than the owner of the specified project, for any purpose whatsoever without the written permission of Ellenberger Architecture.
SHEET NUMBER

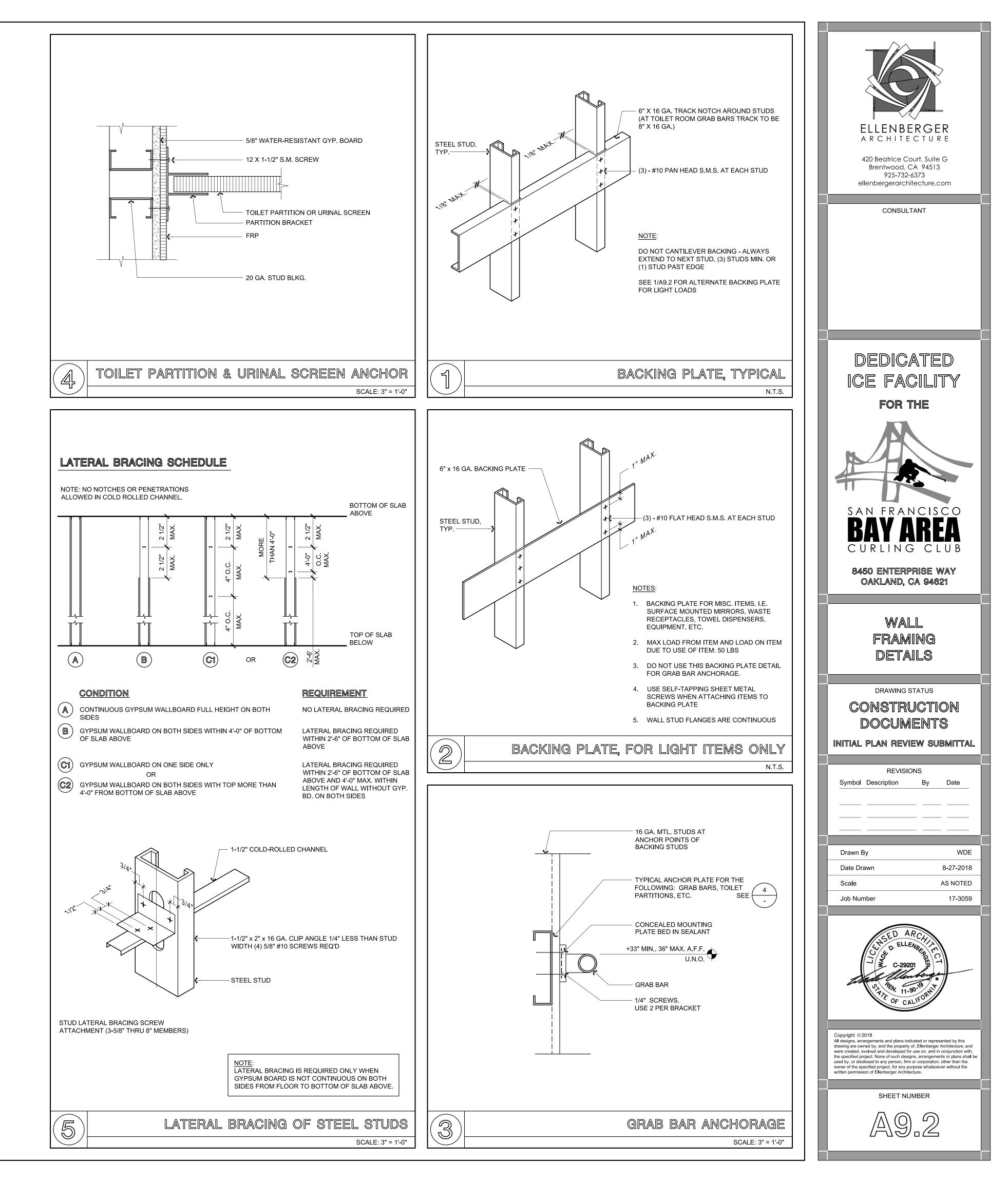


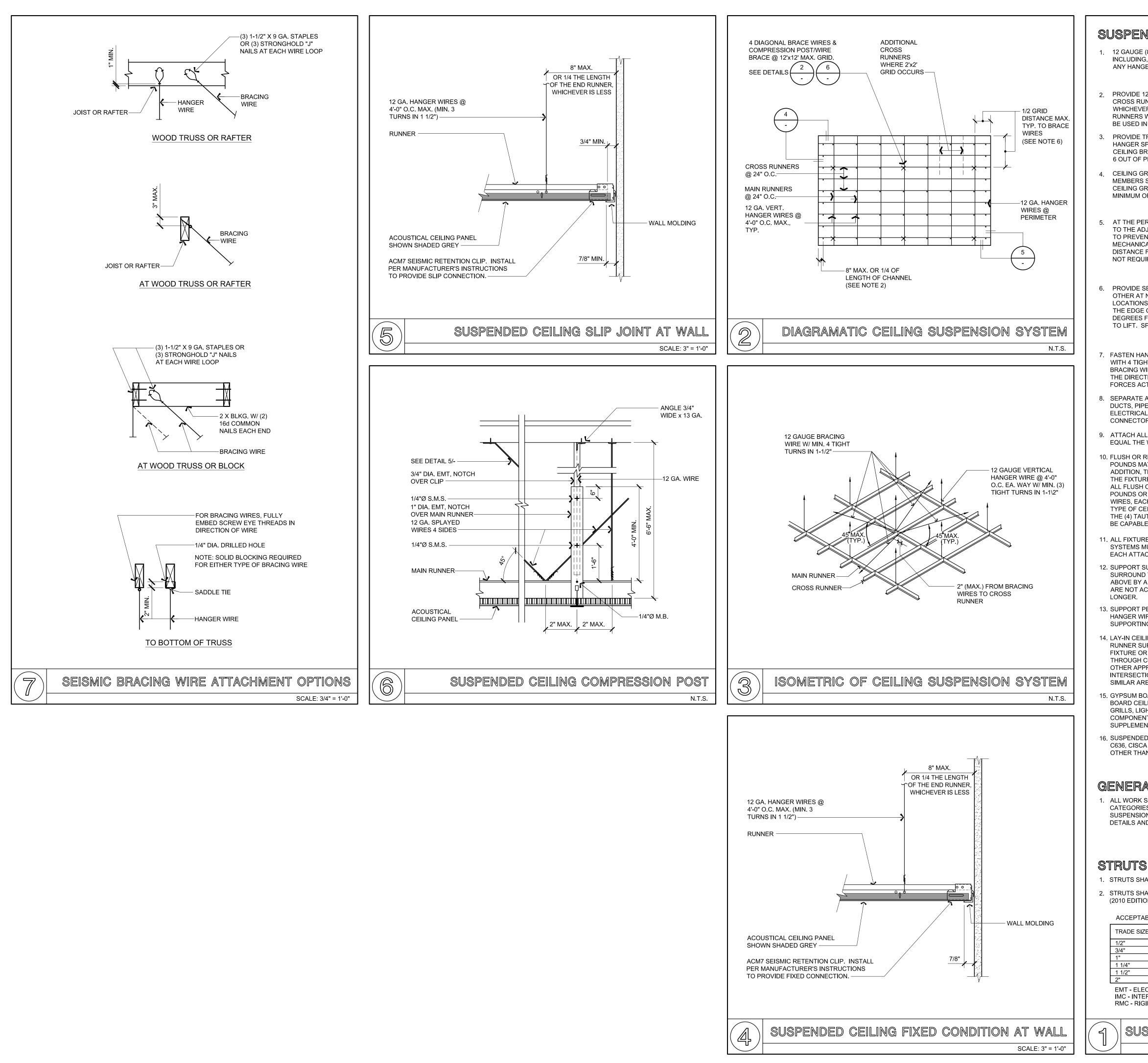
### INTERIOR PARTITION NOTES

N.T.S.

A9.







### SUSPENDED CEILING NOTES:

1. 12 GAUGE (8 GAUGE AT GYPSUM BOARD) HANGER WIRES MAY BE USED FOR UP TO, AND INCLUDING, 4'-0" X 4'-0" GRID SPACING ALONG MAIN RUNNERS. SPLICES ARE NOT BE PERMITTED IN ANY HANGER WIRES. SEE  $\sqrt{2}$ 

PROVIDE 12 GA. (8 GAUGE AT GYPSUM BOARD) HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" FROM THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. END CONNECTIONS FOR RUNNERS WHICH ARE DESIGNED AND DETAILED TO RESIST THE APPLIED HORIZONTAL FORCES MAY BE USED IN LIEU OF THE 12 GA. HANGER WIRES, SUBJECT TO CITY REVIEW AND APPROVAL.

PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS, HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2" FREE OF OTHER WALLS, IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2" CLEAR OF WALL. SEE

5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR 16 GAUGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED. SEE

PROVIDE SETS OF (4) 12 GAUGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT NOT MORE THAN 12 FEET BY 12 FEET ON CENTER. PROVIDE BRACING WIRES AT LOCATIONS NOT MORE THAN HALF OF THE ABOVE SPACINGS FROM EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED. SEE

7. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN BRACING SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.

8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS.

9. ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL THE WEIGHT OF THE FIXTURES.

10. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GAUGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING 56 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN (4) TAUT 12 GAUGE WIRES, EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE, REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE (4) TAUT 12 GAUGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST

BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.

11. ALL FIXTURES AND AIR TERMINALS OR SERVICES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN (4) TAUT 12 GAUGE WIRES EACH ATTACHED TO THE FIXTURE OR TERMINAL AND TO THE STRUCTURE ABOVE.

12. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAUGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FEET OR

13. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE FIXTURE.

14. LAY-IN CEILING ASSEMBLIES IN EXITWAYS SHALL BE INSTALLED WITH A MAIN RUNNER OR CROSS RUNNER SURROUNDING ALL SIDES OF EACH PIECE OF TILE BOARD OR PANEL AND EACH LIGHT FIXTURE OR GRILL SPLICES AND INTERSECTIONS OF SUCH RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH BENT TABS OR BY OTHER APPROVED CONNECTORS. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS.

15. GYPSUM BOARD SUSPENDED CEILING SYSTEMS SHALL COMPLY WITH TITLE 24, CCR, AND GYPSUM BOARD CEILINGS SHOULD NOT SUPPORT MATERIALS OR BUILDING COMPONENTS OTHER THAN GRILLS, LIGHT FIXTURES, SMALL ELECTRICAL CONDUITS, SMALL DUCTS AND THE LIKE. ALL SUCH COMPONENTS SHOULD BE SUPPORTED EITHER DIRECTLY FROM MAIN RUNNERS, OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS.

16. SUSPENDED ACOUSTICAL CEILING SYSTEMS SHALL COMPLY WITH 2010 CBC, ASTM C635, ASTM C636, CISCA (FOR SEISMIC DESIGN CATEGORIES D, E AND F), AND ASCE 7.05. NO VERTICAL LOADS OTHER THAN GYPSUM BOARD DEAD LOAD SHOULD BE APPLIED TO CROSS-FURRING.

### **GENERAL CEILING NOTES:**

1. ALL WORK SHALL COMPLY WITH 2013 CBC, ASTM C635, ASTM C636, CISCA (FOR SEISMIC DESIGN CATEGORIES D, E, AND F), AND ASCE 7.05 PARTICULAR ATTENTION IS DIRECTED TO INDEPENDENT SUSPENSION OF FIXTURES, DUCTS, DIFFUSERS, GRID INTERSECTIONS, SPLICES, PERIMETER DETAILS AND SEISMIC REQUIREMENTS.

1. STRUTS SHALL BE VERTICAL, AND SHALL NOT HANG MORE THAN 1 IN 6 OUT-OF- PLUMB. 2. STRUTS SHALL BE DESIGNED IN ACCORDANCE WITH CBC CHAPTER 22, STEEL (2010 EDITION OF THE CALIFORNIA BUILDING CODE).

ACCEPTABLE STRUT (PIPE) SIZES AND LENGTHS

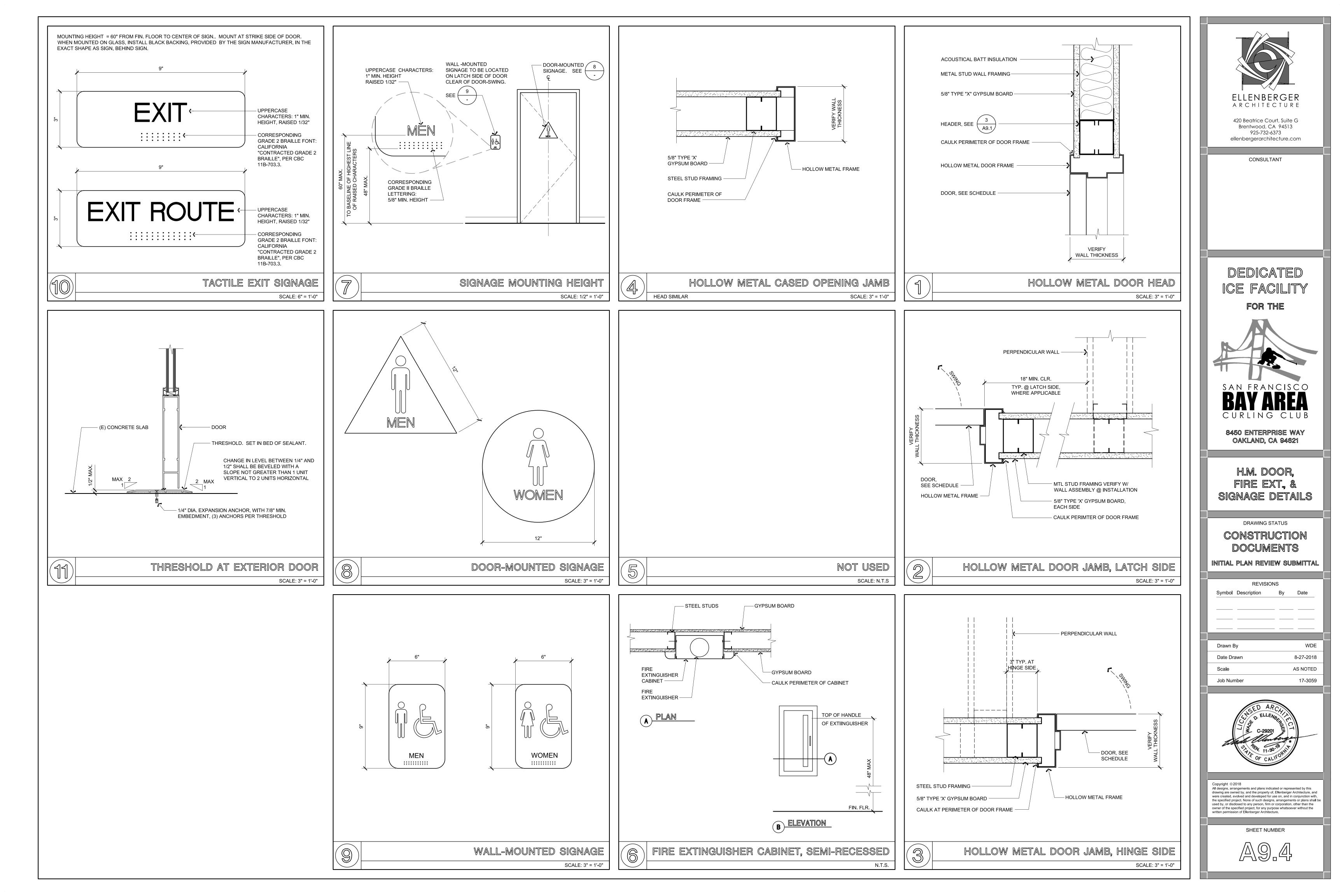
RADE SIZE	ALLOWABLE LENGTH								
	EMT	IMC or RMC							
2"	3'-10"	4'-4"							
4"	5'-2"	5'-7"							
	6'-6"	7'-0"							
1/4"	8'-6"	9'-0"							
1/2"	9'-10"	10'-5"							
		13'-2"							

EMT - ELECTRICAL METALLIC TUBING IMC - INTERMEDIATE METAL CONDUIT RMC - RIGID METAL CONDUIT

SUSPENDED CEILING & GENERAL CEILING NOTES

N.T.S.

ELLENBERGER ARCHITECTURE 420 Beatrice Court, Suite G Brentwood, CA 94513 925-732-6373 ellenbergerarchitecture.com CONSULTANT DEDICATED ICE FACILITY FOR THE SAN FRANCISCO CURLING CLUI 8450 ENTERPRISE WAY OAKLAND, CA 94621 SUSPENDED CEILING DETAILS DRAWING STATUS CONSTRUCTION DOCUMENTS INITIAL PLAN REVIEW SUBMITTAL REVISIONS Symbol Description By Date Drawn By WDE Date Drawn 8-27-2018 Scale AS NOTED Job Number 17-3059 Copyright ©2018 All designs, arrangements and plans indicated or represented by this drawing are owned by, and the property of, Ellenberger Architecture, and ere created, evolved and developed for use on, and in conjunction with he specified project. None of such designs, arrangements or plans shall be sed by, or disclosed to any person, firm or corporation, other than the owner of the specified project, for any purpose whatsoever without the tten permission of Ellenberger Architectu SHEET NUMBER 





## STRUCTURAL NOTES

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADDITION OF THE ACI MANUAL OF CONCRETE PRACTICE.
- ALL CONCRETE MIXES SHALL UTILIZE TYPE II PORTLAND CEMENT CONFORMING TO ASTM C150. 2. 3. AGGREGATES SHALL CONFORM TO ASTM C33. MAXIMUM AGGREGATE SIZE FOR FOOTINGS AND MASS CONCRETE SHALL NOT EXCEED 1-1/2".
- 4. FLY ASH SHALL CONFORM TO ASTM C618, CLASS F. FLY ASH SHALL NOT EXCEED 15% OF
- CEMENT BY WEIGHT, AND SHALL NOT EXPERIENCE A LOSS ON IGNITION OF GREATER THAN 1%. 5. ALL CONCRETE MIXES SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF 0.50, AND SHALL HAVE AN ENTRAPPED AIR CONTENT OF 1% TO 3%. ADDMIXTURES USED SHALL BE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER OF RECORD.
- 6. REINFORCING BARS, ANCHOR BOLTS AND CONCRETE INSERTS SHALL BE PROPERLY LOCATED AND SECURELY FASTENED IN POSITION PRIOR TO PLACING CONCRETE.
- MAXIMUM CONCRETE SLUMP SHALL NOT EXCEED 3" FOR FOOTINGS, MASS CONCRETE, AND 7. SLABS-ON-GRADE, AND 4" FOR OTHER CONCRETE.
- MINIMUM ULTIMATE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS: 8.

	PSI	DAYS	
A. FOOTINGS	3,000*	28	* DESIGN STRENGTH = 2,500 psi.
B. SLABS-ON-GRADE	3,000*	28	
D. LEAN CONCRETE FILL	1,000*	28	(NORMAL-WEIGHT CONCRETE)

- PROJECTING CORNERS OF ALL CONCRETE MEMBERS SHALL BE FORMED WITH 3/4" CHAMFER 9. UNLESS DETAILED OTHERWISE.
- 10. THE OUTSIDE DIAMETER (O.D) OF CONDUIT OR PIPE PLACED IN THE PLANE OF A SLAB-ON-GRADE SHALL NOT EXCEED 30% OF SLAB THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE AND SHALL BE LOCATED IN MIDDLE 1/3 OF SLAB. CLEAR SPACING BETWEEN ADJACENT CONDUITS OR PIPES SHALL BE TWICE THE LARGER O.D. MINIMUM, UNLESS OTHERWISE NOTED ON PLANS.
- 11. SURFACES OF JOINTS REFERENCED AS 'COLD JOINTS', SHALL BE TROWELED OR OTHERWISE FINISHED SMOOTH WITH 2 LAYERS OF BUILDING PAPER BETWEEN SURFACES. ALL OTHER CONCRETE JOINTS SHALL BE ROUGHENED TO 1/4" +/- AMPLITUDE UNLESS OTHERWISE NOTED.
- 12. NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NON-METALLIC FORMULA WITH A MINIMUM COMPRESSIVE STRENGTH OF 7000 psi AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1090); ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 psi (ASTM C109); AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C191). PROVIDE "HI-FLOW GROUT" OR "DRY PACK GROUT" BY EUCLID, OR AN APPROVED EQUAL.

POST INSTALLED ANCHORS

CONCRETE

- 1. EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI KWIK BOLT TZ WEDGE ANCHORS PER ICC-ES REPORT ESR-1917.
- EXPANSION ANCHORS IN MASONRY SHALL BE HILTI KWIK BOLT 3 WEDGE ANCHORS PER ICC-ES 2. REPORT ESR-1385.
- 3. SCREW ANCHORS IN MASONRY SHALL BE SIMPSON TITEN MASONRY SCREW ANCHORS PER ICC-ES REPORT ESR-1056.
- EPOXY ADHESIVE ANCHORS IN CONCRETE OR MASONRY SHALL USE SIMPSON SET EPOXY PER 4. ICC-ES REPORT ESR-1772, OR APPROVED EQUAL.

REINFORCING STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 IN ALL CONCRETE AND MASONRY UNLESS NOTED OTHERWISE ON THE PLANS. REINFORCING STEEL THAT IS TO BE WELDED SHALL BE ASTM A706. A706 REBAR SHALL BE WELDED PER THE LATEST AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE.
- CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS 2. (UNLESS OTHERWISE NOTED):
  - A. CONCRETE CAST AGAINST AND EXPOSED TO EARTH------ 3"
  - B. INTERIOR STRUCTURAL SLABS, TOP AND BOTTOM------ 3/4" C. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER
  - #6 BAR OR LARGER---------- 2" #5 BAR AND SMALLER----- 1-1/2"
- 3. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- REINFORCING BARS SHALL BE LAPPED OR SPLICED AS SHOWN ON DRAWINGS. ANY ADDITIONAL 4.
- SPLICING OR ALTERNATE METHODS SHALL REQUIRE REVIEW FROM THE ENGINEER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING ALL NECESSARY TEMPORARY
- 5. BRACING AS REQUIRED FOR CONSTRUCTION LOADS, STABILITY AND RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THE ENTIRE STRUCTURE IS COMPLETE.

2.

3

4.

5.

SPECIAL INSPECTION AND MATERIALS TESTING

1. SPECIAL INSPECTION AND ASSOCIATED MATERIALS TESTING SHALL BE PERFORMED BY A QUALIFIED PERSON OR AGENCY DESIGNATED BY THE OWNER, WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

- A. SPECIAL INSPECTOR APPLICATIONS MUST BE REVIEWED AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO THE ISSUANCE OF A PERMIT.
- B. INSPECTION REPORTS NOTING DISCREPANCIES, IF ANY, ARE TO BE FILED WITH THE BUILDING DEPARTMENT WEEKLY DURING CONSTRUCTION, WHETHER CORRECTED OR NOT
- C. ALL INSPECTOR'S DAILY LOGS ARE TO BE MAINTAINED ON SITE FOR REVIEW BY THE BUILDING DEPARTMENT FIELD INSPECTORS.

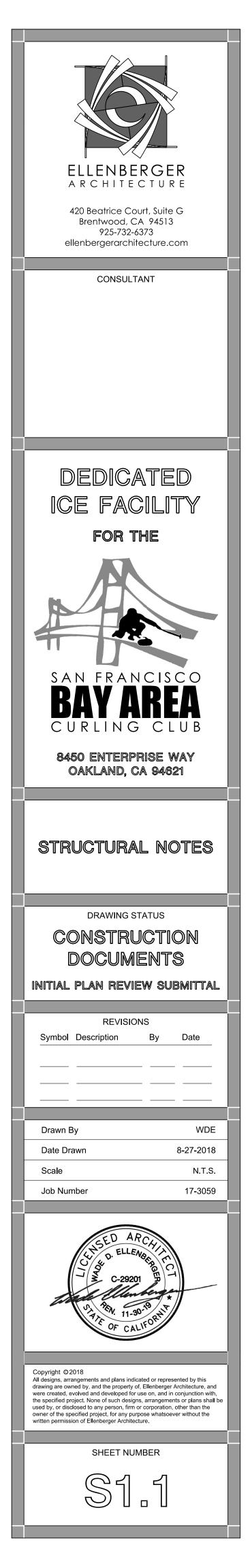
THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. IF THE DISCREPENCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT THE COMPLETION OF THAT PHASE OF WORK.

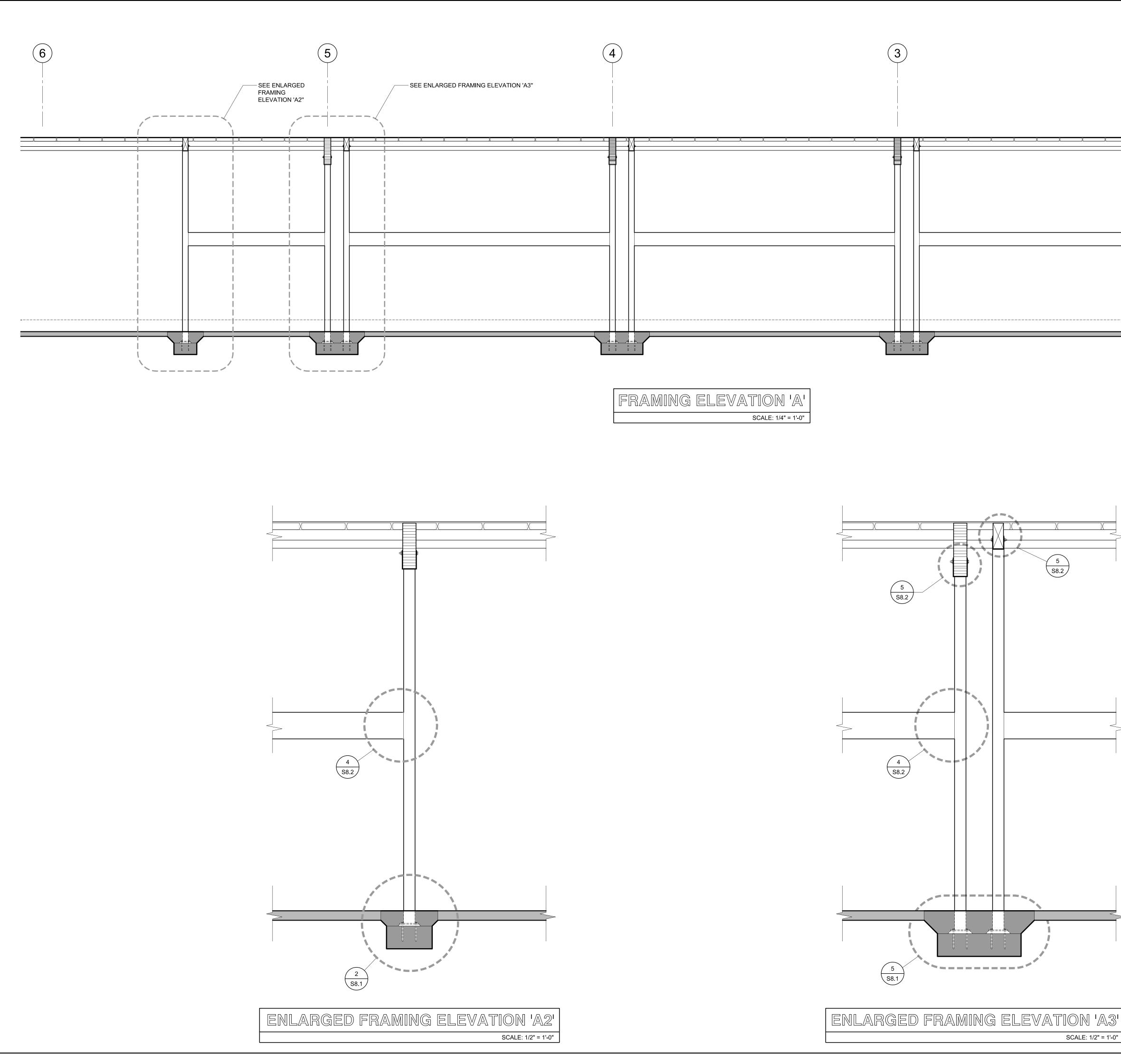
SUMMARY OF TESTS, INSPECTIONS AND SUBMITTALS PERFORMED BY AN APPROVED SPECIAL TESTING LAB, SPECIAL INSPECTOR AND/OR ENGINEER SHALL BE AS SPECIFIED BELOW.

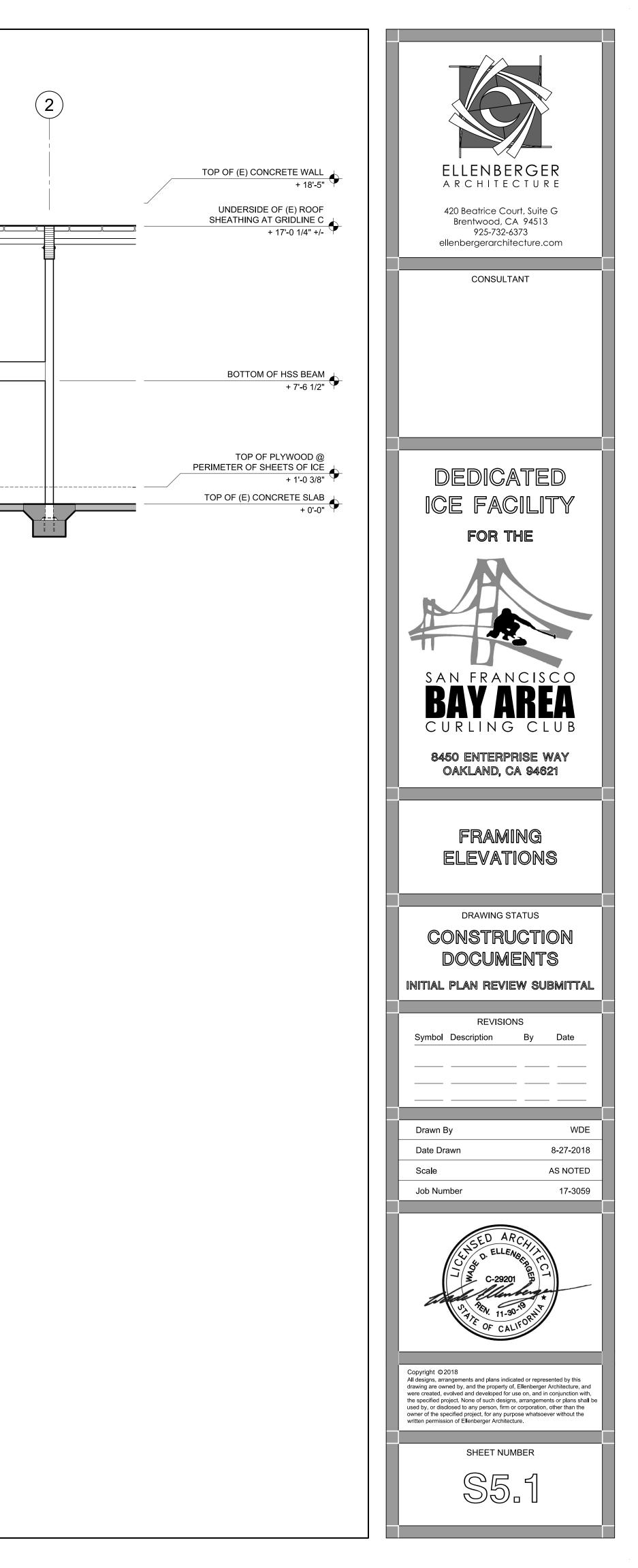
ITEM	TESTING	SPECIAL INSPECTION	CERTIFICATE
CONCRETE STRENGTH			$\checkmark$
CONCRETE MIX DESIGN			$\checkmark$
POST INSTALLED ANCHORS	$\checkmark$	$\checkmark$	

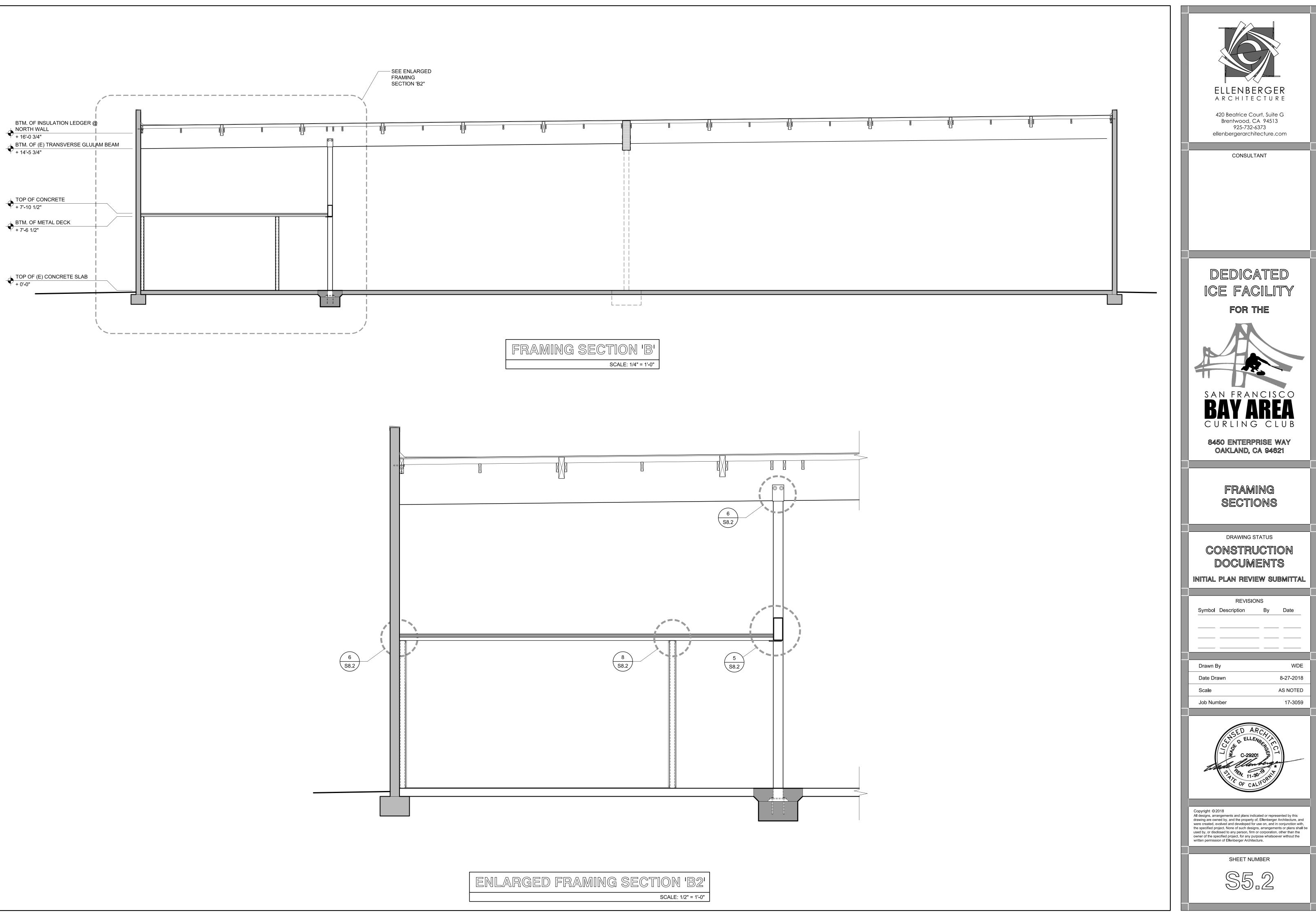
ALSO REFERENCE ANY APPLICATION(S) FOR SPECIAL INSPECTOR FORM(S) AS REQUIRED FROM THE BUILDING DEPARTMENT COMPLETED BY THE SPECIAL INSPECTOR(S).

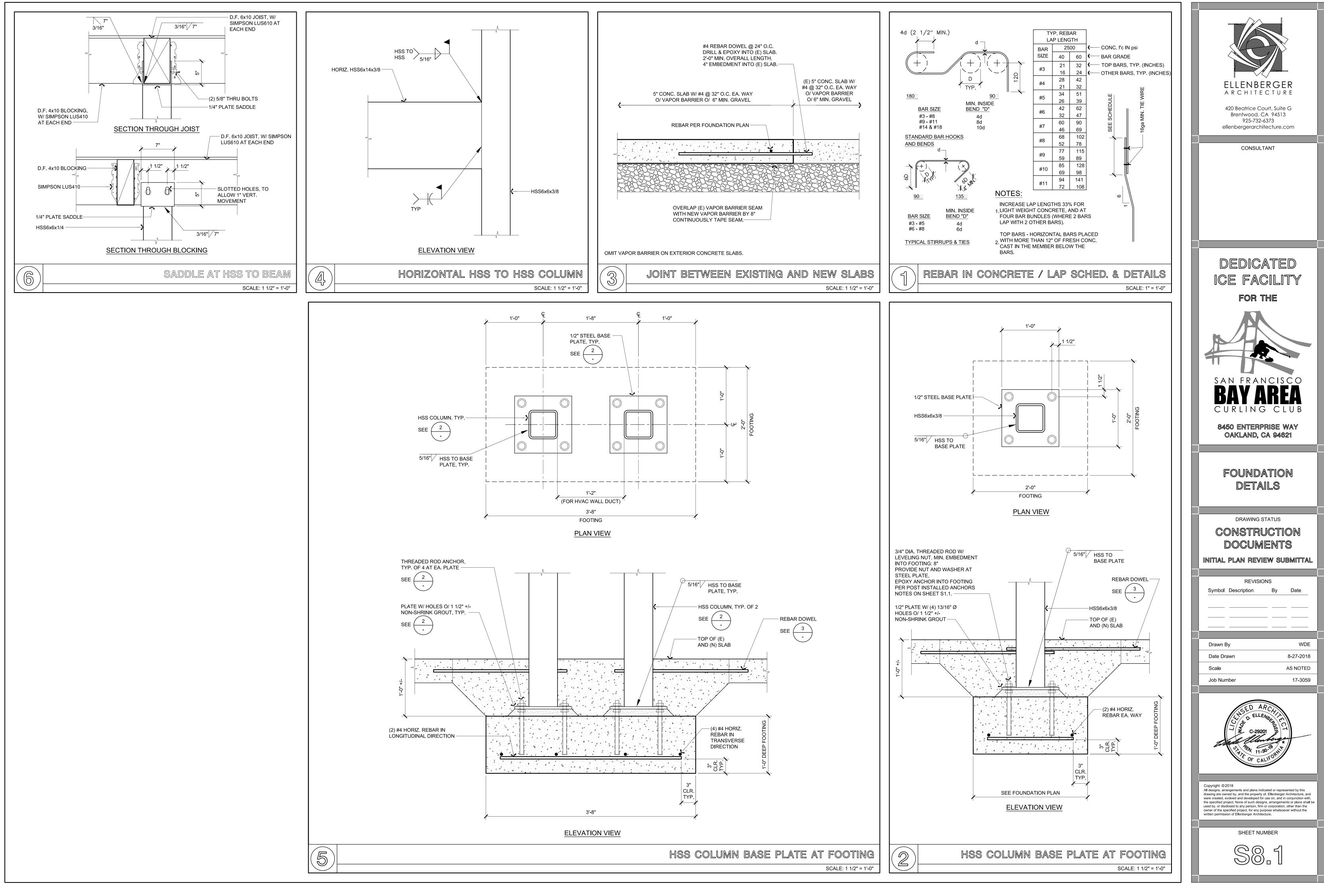
THE SPECIAL INSPECTIONS LISTED ABOVE ARE NOT INTENDED TO BE ALL INCLUSIVE AND ONLY REPRESENT SPECIAL INSPECTIONS FOR STRUCTURAL PORTIONS OF THE WORK. ADDITIONAL SPECIAL INSPECTIONS OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING OR OTHER SYSTEMS MAY BE REQUIRED. REFER TO THE APPROPRIATE DESIGN DISCIPLINES FOR ADDITIONAL INFORMATION.











Mechanical Ventilation         Occupant       Occupant												AIR TERMINAL SCHEDULE (EXCEPT AS NOTED)								
ROOI	/ # ROOM NAME	Are	a SF	Densit (Peopl per 100 sq.ft.)	y e 00	E 62.1 OCCUPAN	ICY	Occupanc	CAO CODE ANALYSIS OCCUPANC	Area Outdoo			EZ ASHI	A.'	20.1- 15 15*S CFM F CAO/2		CD		RADIAL DIFFUSER	TMR - POSITION-1, EXPOSED (NO CEILING) STEEL CONSTRUCTION
101 1 102 103 104	HALL	520 1173 453 150	31117313473	150 50 0 5	62-General 62-General	ssembly Spaces - Lobl - Conference/Meeting - Corridor uildings - Office Space	Dies	79 587 0 1		0.12 0.06 0.06 0.06		5 5 0 5	45 363 28 14	39 1 8	79       1760       71       23	475	CD-1		DUCT MOUNTED CEILING DIFFUSER	TDC - COMPLETE WITH EQUALIZING GRID, THROW-REDUCING VANES, STEEL CONSTRUCTION
105 108 109 112	VESTIBULE WOMEN'S LOCKER F VESTIBULE MEN'S LOCKER ROO	65 DM 190	194           84           178	0 50 0 50	62-General 62-General	uildings - Breakrooms - Corridor - Conference/Meeting		0 10 0 10		0.06 0.12 0.06 0.06		0 5 0 5	4 73 5 61	3 5 1 1	10       29       13       27		WSR		EXPOSED SUPPLY DIFFUSER	300RL - STEEL CONSTRUCTION, DOUBLE DEFLECTION HORIZONTAL BLADES, EQUALIZING GRID
	MARKS:	135 Not Pla 1. ICE	7 1391	50 50 5 C BY OTHEF	62-General 62-Office B	uildings - Breakrooms - Conference/Meeting uildings - Office Space		10 68		0.12 0.06 0.06		5 5 5	73 42	23 2	29 209 9	O,W	WRG		WALL RETURN GRILLE	355R - LOUVERS ON 1/2" CENTERS, STEEL CONSTRUCTION, LOUVERS PARALLEL WITH LONG DIMENSION
	/ STANDS FOR OPERABLE	E WINDOW					IR CONDITIO										CR	Q -4-	DUCT MOUNTED CEILING RETURN	SAME AS CD EXCEPT NO EQUALIZING GRID
	/ANUFACTURER/ MODEL	AIRFLOW 0		BHP F	MOTOR PM HP	COOLING (MBH)	GAS HE (ME	EATING BH)	JE % SEER EER	ELECTRICAL		POWER EXHAUST/ECON MIZER (LBS)	O TOTAL W (LBS.)		EA SERVED	REMARKS	EG	~	DUCT MOUNTED EXHAUST GRILLE CEILING RETURN	50F - 1/2" x 1/2" x 1/2" EGGCRATE, ALUMINUM GRID
AC 1 AC 2	CARRIER 48LC006A CARRIER 48LC006A		00 1.00 in-v	wg 1.61 1	313 2	5 61.5 48	.0 90.0	72.0 8 72.0 8	80 18.40 12.5	460-3-60         15.0           460-3-60         15.0	20 20 20	50 50	(LB3.) 725 725	1s	st FLOOR D FLOOR-	1-9 1-9 1-9	DL		DOOR LOUVER	T700 - STEEL CONSTRUCTION WITH FLANGED AND AUXILIARY FRAME
2. CARF 3. MER 4. FACT	KS: ZONTAL SUPPLY/RETURN IER 33 CONNECT "T"STAT /-13 2" PLEATED FILTER. ORY ECONOMIZER WITH IM BELT DRIVE.	T W/INTEGRATED A	UDIO/VISUAL		RM.			7. CO2 R0 8. E-COA	DOM SENSOR FOR T INDOOR & OUTDO DE OEM/FACTORY H	DEMAND CONTRO	OL VENTILAT	TION.					TG		TRANSFER GRILLE	355R - LOUVERS ON 1/2" CENTERS, STEEL CONSTRUCTION, LOUVERS PARALLEL WITH LONG DIMENSION
	EXHAUST FAN SCHEDULE												NC			ON FROM SQUARE NECK TO ROUND DUCT. ZE FOR T-BAR CEILING ONLY				
MA EF			IRFLOW 00 CFM	FAN RPM 1140	INLET SONES 7.9	MOTOR HP C 1/6	ELECTRICA PER. HP 0.14	L DATA WATTS	V-Ø-Hz 115-1-60	WEIGHT 50.00 lb	SERVICE TOILET									
REMAR	REMARKS: 1. PROVIDE ACCESSORY ROOF CURB. 2. PROVIDE W/ ECM. 3. FAN TO OPERATE CONTINUOUSLY. 4. ON/OFF CONTROL BY TIME CLOCK.											TITLE 2 TITLE 2	24, PART 2: 2016 ( 24, PART 3: 2016 (	BLE CODES AND STA CALIFORNIA BUILDING COD CALIFORNIA ELECTRICAL CO CALIFORNIA MECHANICAL CO	E (VOLUMES 1 & 2) ODE					

TITLE 24, PART 4: 2016 CALIFORNIA MECHANICAL CODE TITLE 24, PART 5: 2016 CALIFORNIA PLUMBING CODE

TITLE 24, PART 6: 2016 CALIFORNIA ENERGY CODE TITLE 24, PART 9: 2016 CALIFORNIA FIRE CODE

TITLE 24, PART 12: 2016 CALIFORNIA REFERENCED STANDARDS CODE

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30. 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

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

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE: PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH

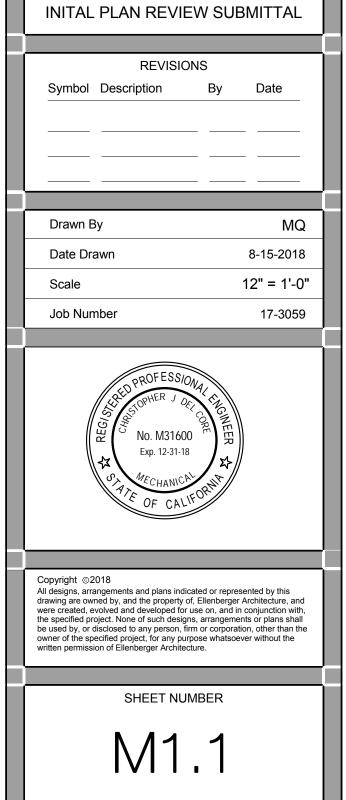
THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE APPROVED INSTALLATION GUIDE (e.g. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEM. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

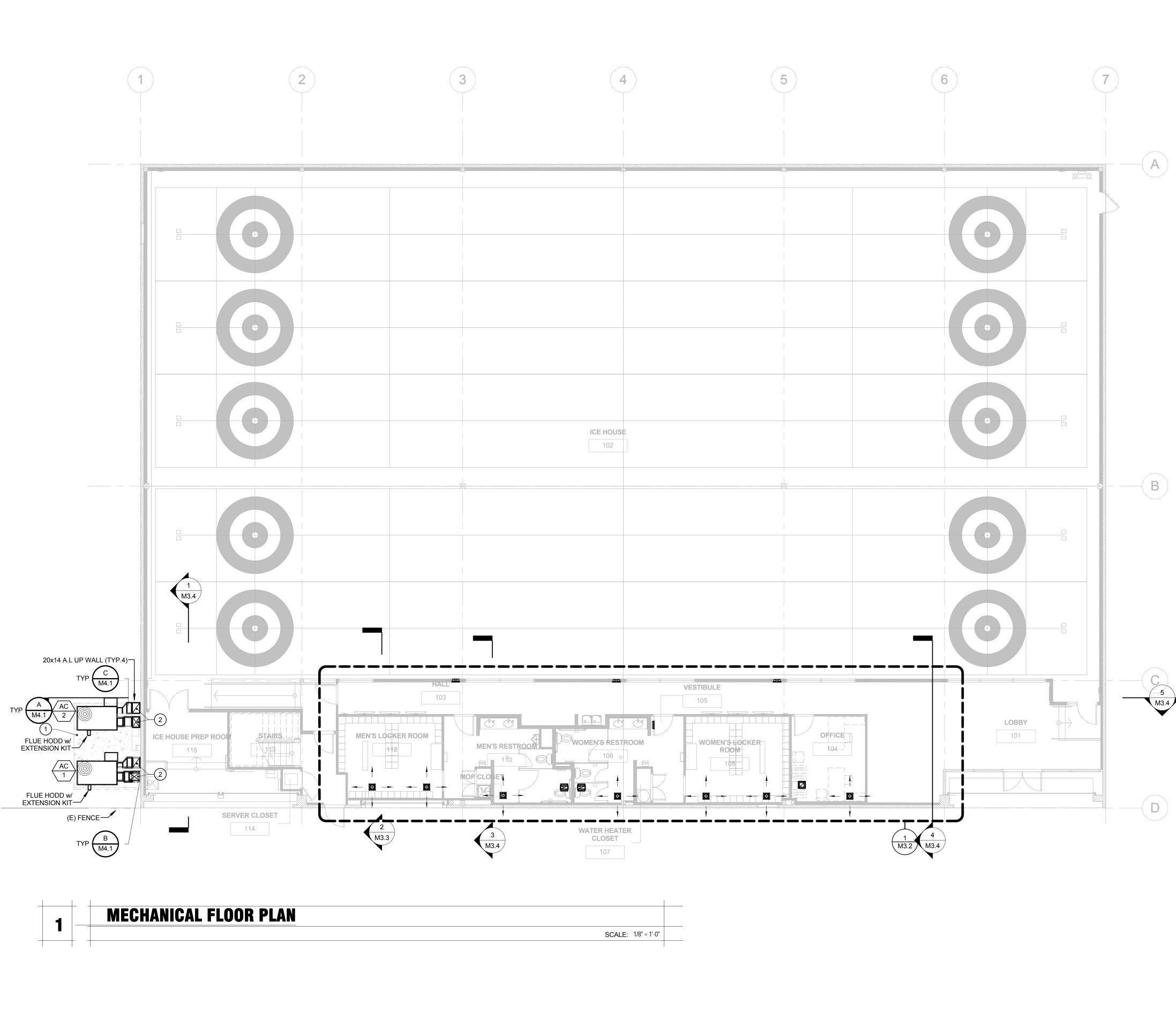
MECHANICAL/PLUMBING/DUCTS	
M PP DOPTION 1:	DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
	SHALL COMPLY WITH THE OSHPD PRE-APPROVAL (OPM #) # 0043-13
M PP DOPTION 3:	SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT
SPECIFICALLY IN THE SMACNA SEISMIC R APPROVED DRAWINGS WITH PROJECT SF	NG ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NC ESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE PECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT _ AND CONNECTIONS LEVEL FOR THE PROJECT AND

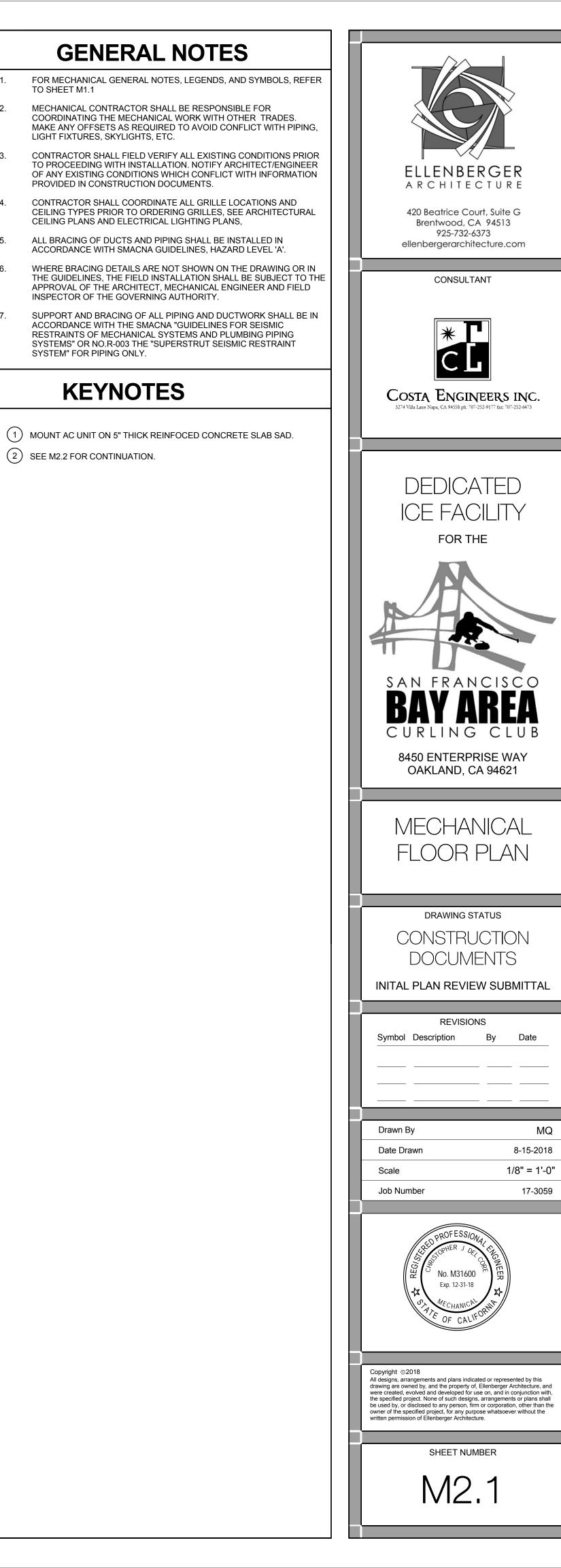
	MECHAN		
SYMBOL	ABBREVIATION	DESCRIPTION	
X		EQUIPMENT TYPE	
X			
X X-X		DETAIL / DRAWING NUMBER SHEET NUMBER	
_			ELLENBERGER ARCHITECTURE
C)		SECTION THRU SUPPLY AIR	
$\mathbf{X}$	SA OR OA	OR OUTSIDE AIR DUCT	420 Beatrice Court, Suite G Brentwood, CA 94513
		SECTION THRU RETURN AIR	925-732-6373 ellenbergerarchitecture.com
	RA OR EA	OR EXHAUST AIR DUCT	
			CONSULTANT
		ROUND DUCT DOWN	
			*
	DN OR UP	SLOPE DUCT DOWN OR UP IN DIRECTION OF FLOW	
	AL	ACOUSTICAL LINING	
F			Costa Engineers inc. 3274 Villa Lane Napa, CA 94558 ph: 707-252-9177 fax: 707-252-6473
<u>}</u> }	FC	FLEXIBLE DUCT CONNECTION	
<b>∽ Г</b> ,	VD	VOLUME DAMPER	
ç <del>,   ,</del>	FD	FIRE DAMPER	DEDICATED
<u>}</u>			
	τv	TURNING VANES	FOR THE
<u>بالمراجع</u>			
		FLEXIBLE DUCT	
<u> </u>		45° ROUND DUCT TAKE-OFF	
		45° RECTANGULAR DUCT TAKE-OFF	T
~ جــــــــــــــــــــــــــــــــــــ		90° TURN - ROUND DUCT	SAN FRANCISCO
		90° RADIUS TURN - ROUND OR RECTANGULAR DUCT	CURLING CLUB
		SQUARE TO ROUND	
		DUCT TRANSITION	8450 ENTERPRISE WAY OAKLAND, CA 94621
		DUCT TRANSITION	
		RECTANGULAR	HVAC
		DUCT 90° SPLIT	SCHEDULES
$\bigcirc$		THERMOSTAT @ 48" AFF	AND LEGENDS
	AP	ACCESS PANEL	
<ul> <li>↓</li> <li>↓</li> <li>↓</li> <li>↓</li> <li>↓</li> </ul>	POC	POINT OF CONNECTION	DRAWING STATUS
- <b>○</b> -	POD	POINT OF DEMOLITION	CONSTRUCTION
Ŷ	BHP	BRAKE HORSEPOWER	DOCUMENTS
	HP	HORSEPOWER	
	SAD	SEE ARCHITECTURAL DRAWINGS	INITAL PLAN REVIEW SUBMITTAL
	SSD OEM	SEE STRUCTURAL DRAWINGS ORIGINAL EQUIPMENT MANUFACTURE	REVISIONS
	SCD	SEE CIVIL DRAWINGS	Symbol Description By Date
	BLDG 'MECH	ANICAL' SHEET LIST	
	HEDULES AND LEGENDS		
M2.2 MECHANI	CAL PLOOR PLAN		

M1.1	HVAC SCHEDULES AND LEGENDS
M2.1	MECHANICAL FLOOR PLAN
M2.2	MECHANICAL 2ND FLOOR PLAN
M2.3	MECHANICAL ROOF PLAN
M3.2	MECHANICAL ENLARGEMENT PLAN
M3.3	MECHANICAL ISOMETRIC
M3.4	MECHANICAL SECTIONS
M4.1	MECHANICAL DETAILS
M4.2	MECHANICAL DETAILS









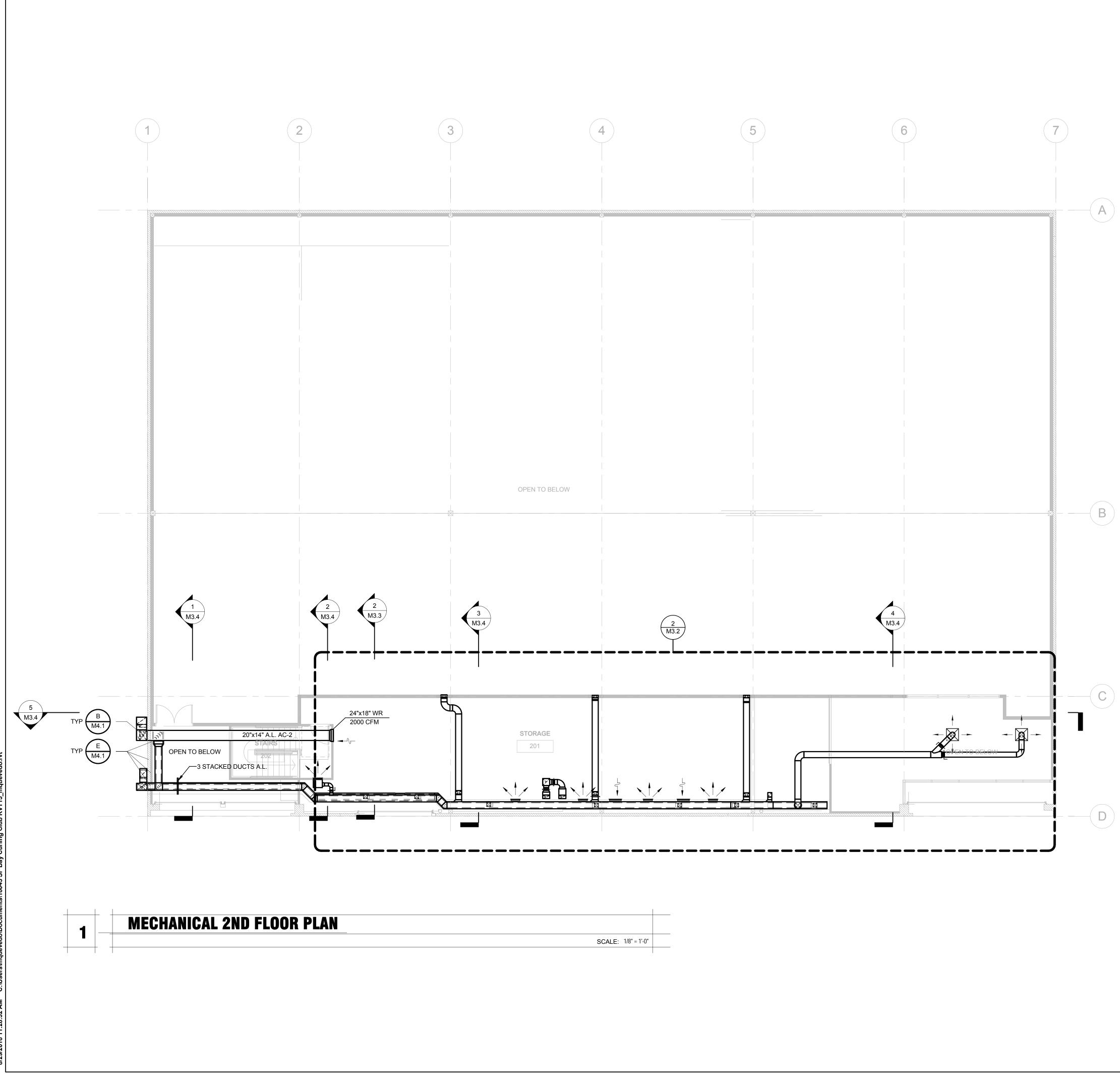
Date

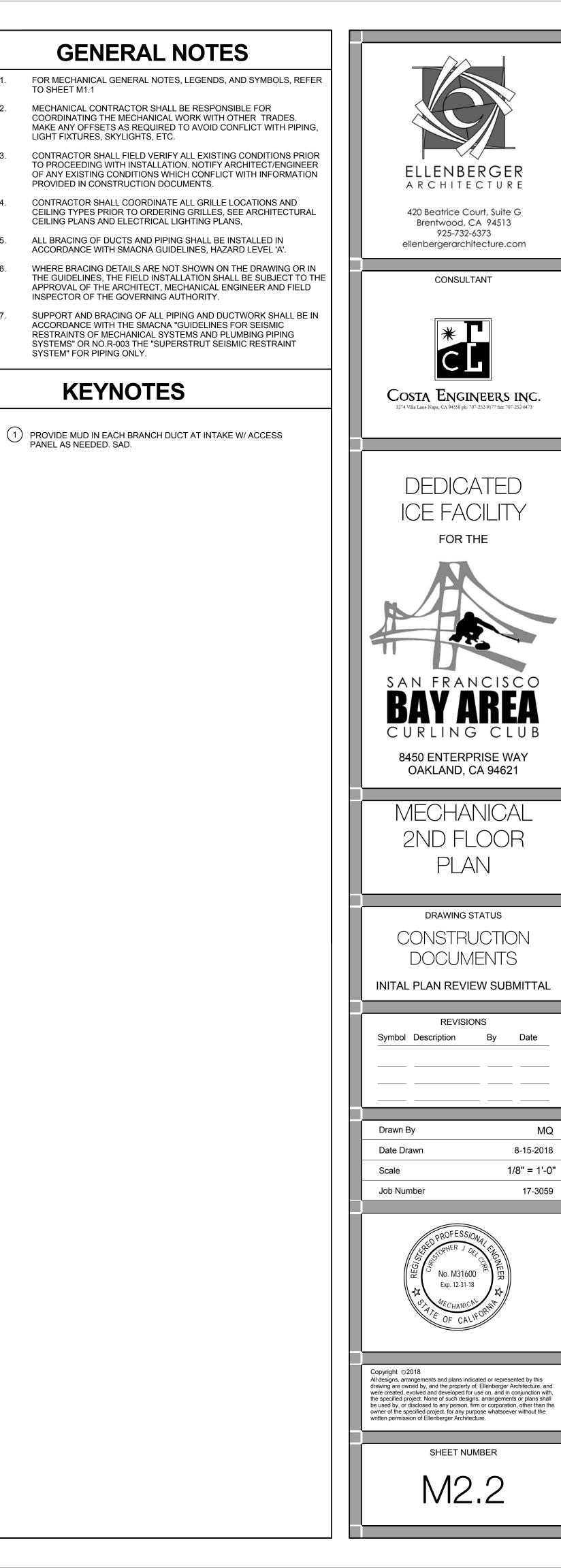
MQ

8-15-2018

1/8" = 1'-0"

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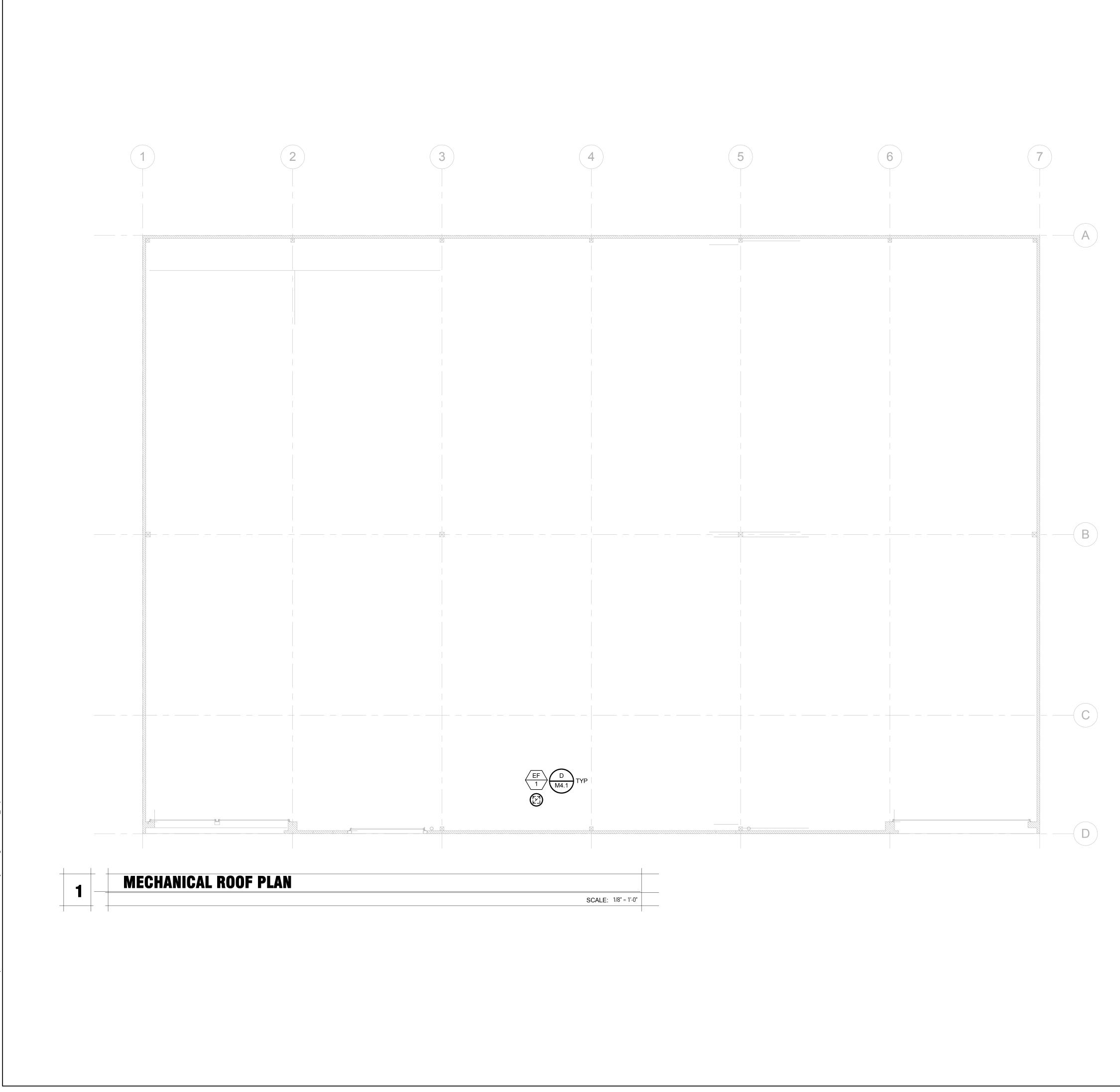
Date

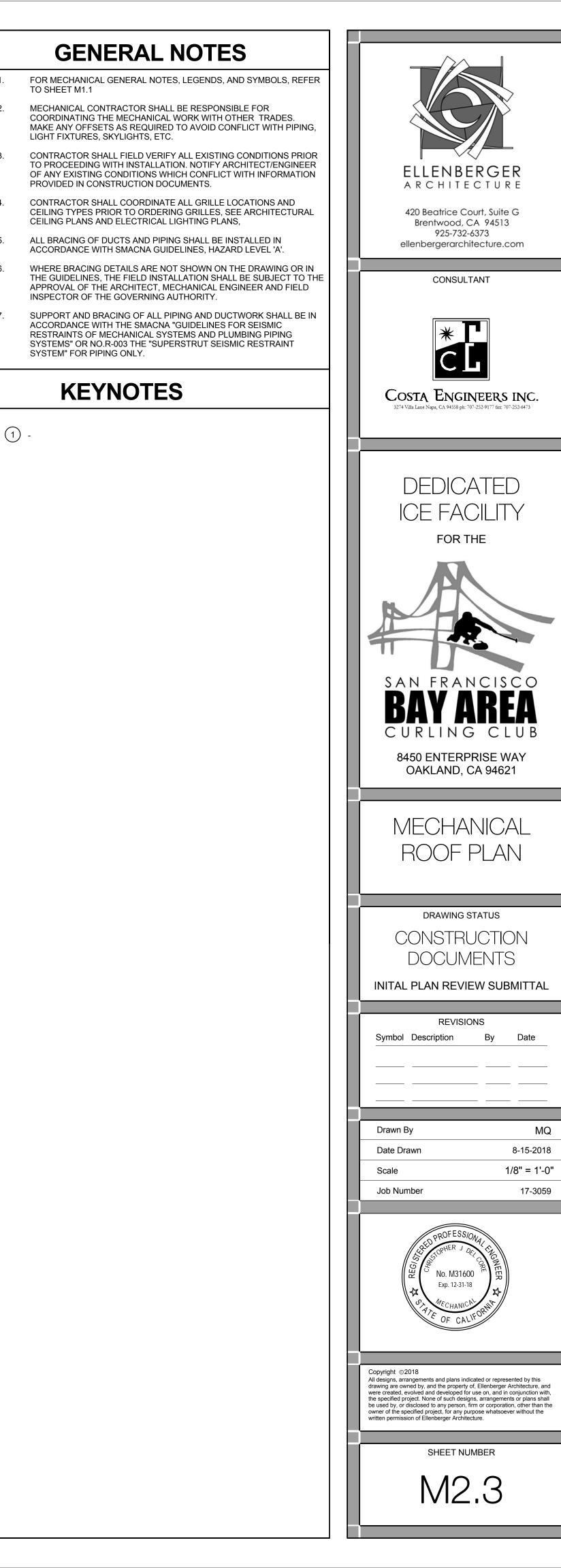
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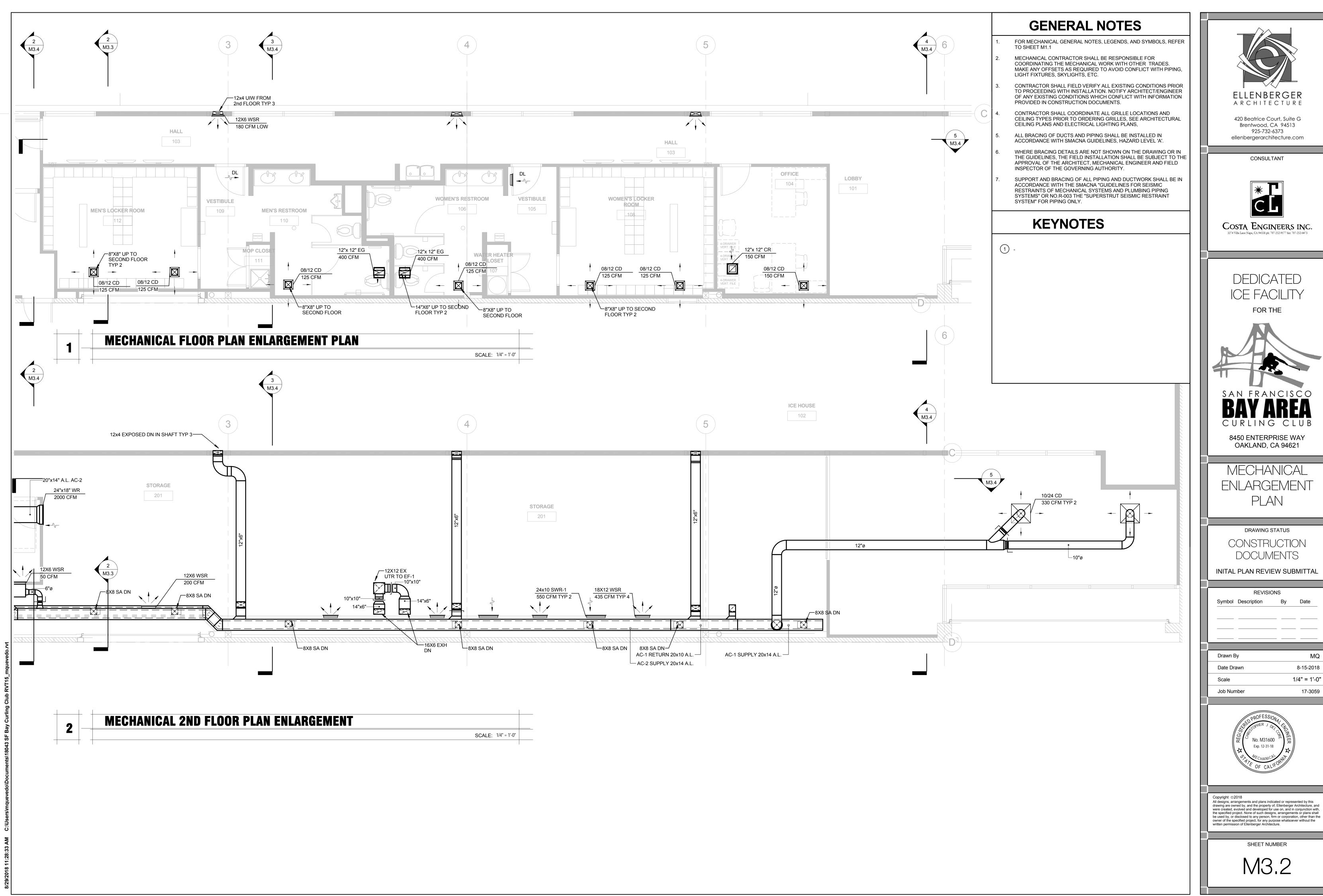
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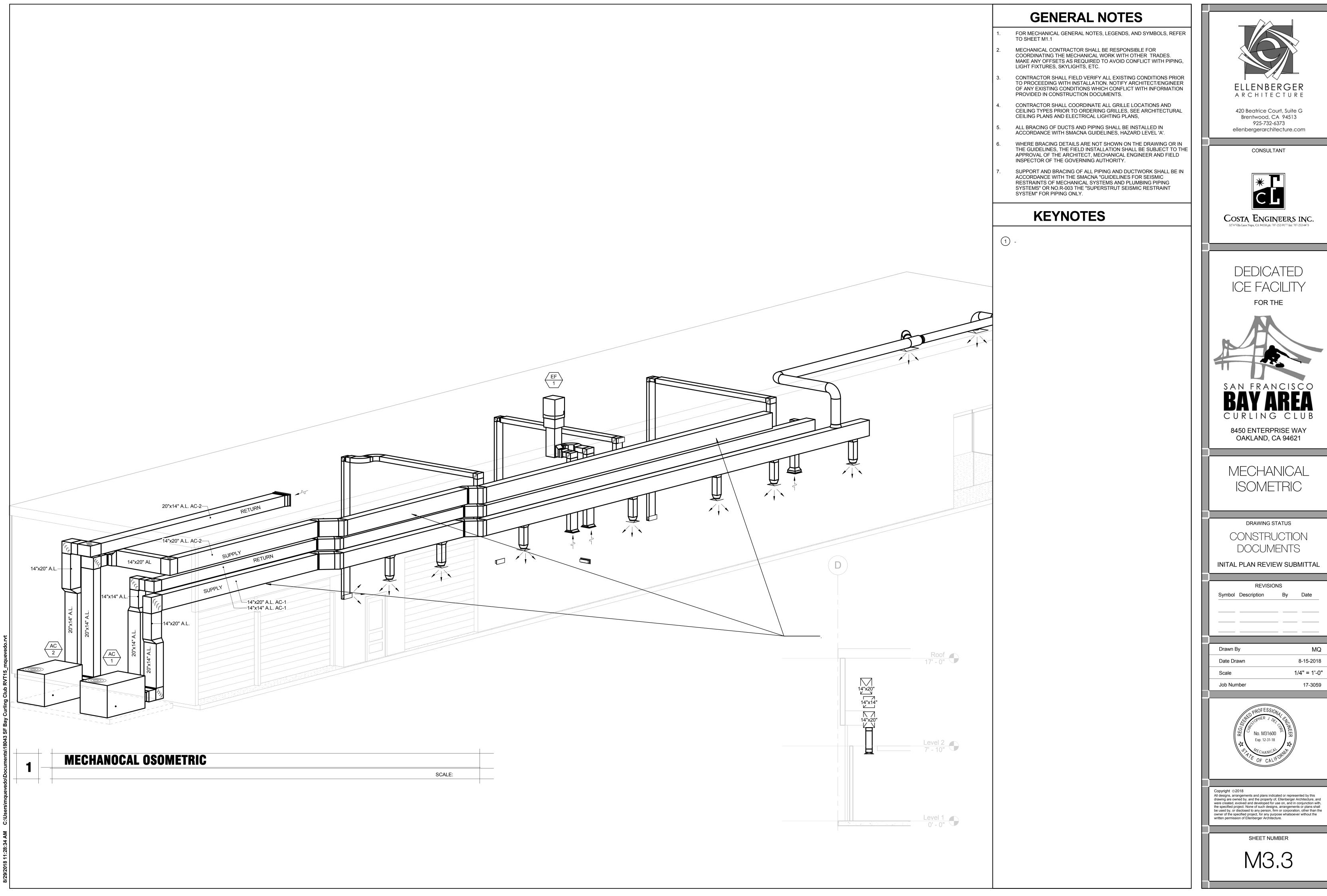
1/8" = 1'-0"

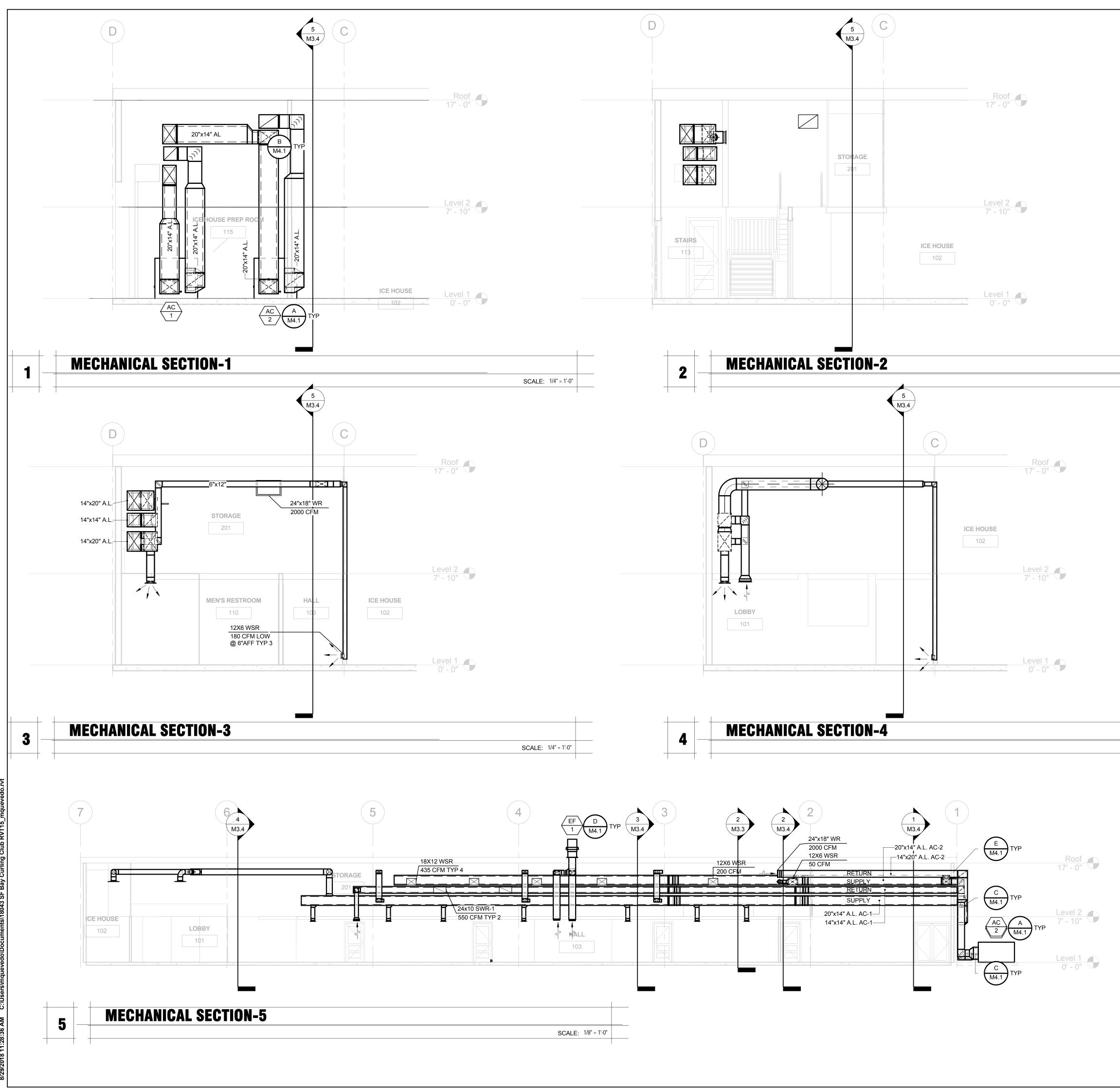
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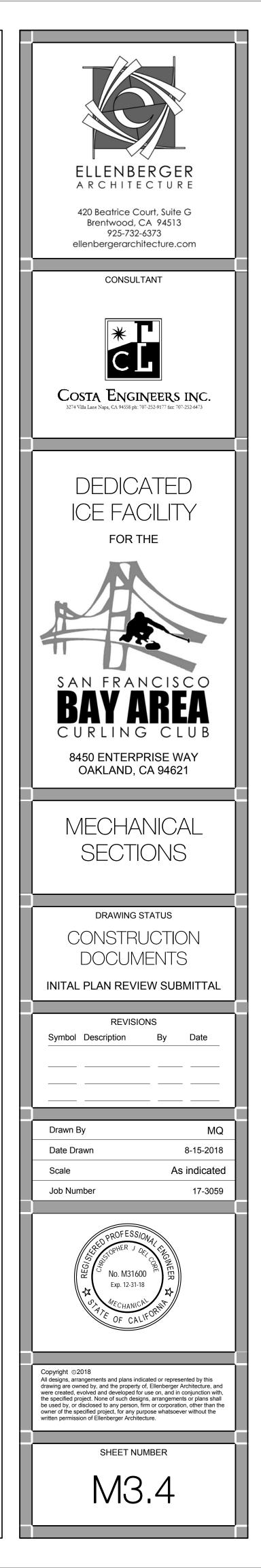






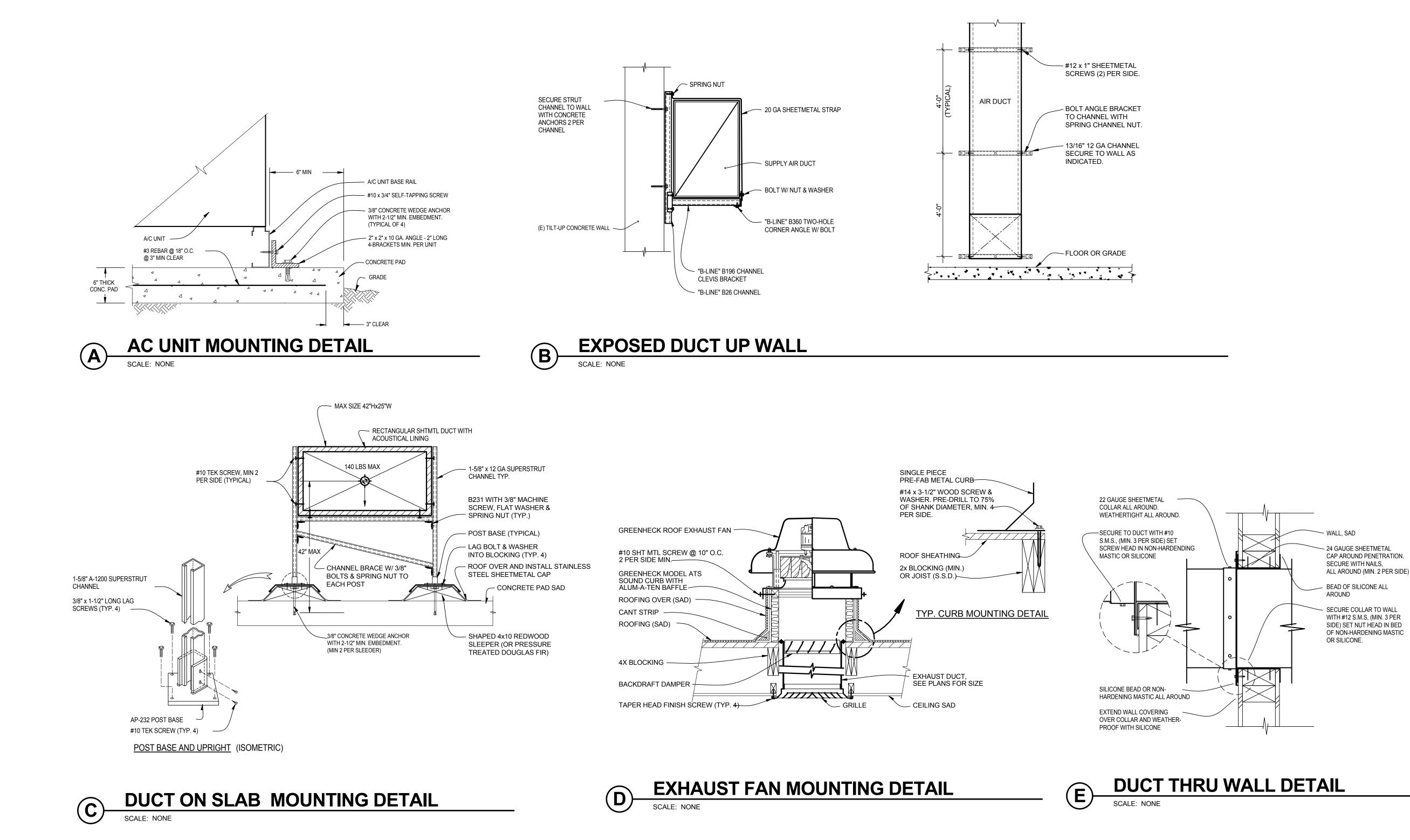




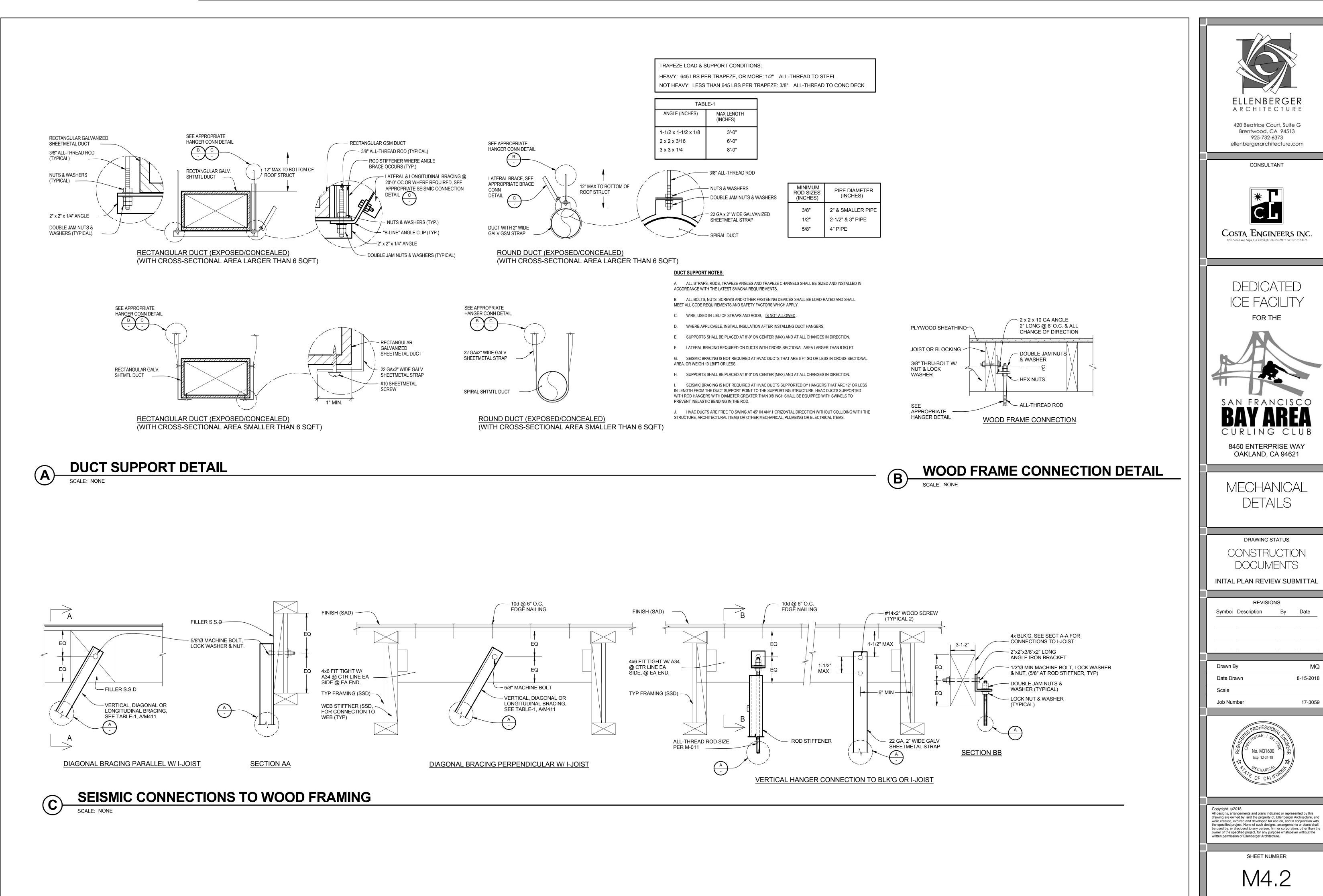


SCALE: 1/4" = 1'-0"	

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







MQ

	PLUMBING FIXTURE SCHEDULE						
MARK	W	V	CW	HW	REMARKS	LIST OF APPLICABLE	
P-1A	4"	1 1/2"	1"		TANK TYPE WATER CLOSET	TITLE 24, PART 2: 2016 CALI	
P-1B	4"	1 1/2"	1"		TANK TYPE WATER CLOSET (ADA) SEE ARCH FOR MOUNTING HIGHT	TITLE 24, PART 3: 2016 CALI	
P-2A	2"	1 1/2"	3/4"	3/4"	LAVATORY WITH FAUCET ADA	TITLE 24, PART 4: 2016 CALI	
P-3A	2"	2"	1"		WALL MOUNTED URINAL ADA (S.A.D.FOR MOUNTING HEIGHT)	TITLE 24, PART 5: 2016 CALI	
P-4A	2"	2"	3/4"	3/4"	FLOOR MOUNTED JANITOR SINK	TITLE 24, PART 9: 2016 CALI	
P-6A	2"	1 1/2"	3/4"	0"	HIGH LOW WATER DRINKING STATION. WITH BOTTLE FILLER	TITLE 24, PART 12: 2016 CAL	
FD-1	2"	1 1/2"			FLOOR DRAIN		
HB-1			3/4"		HOSE BIBB	MEP COMPONENT AN	
CW FIXTURES	AND VALVES S	SHALL BE AB1953	COMPLIANT.	•		ALL MECHANICAL, PLUMBIN	

AND BRACE LOADS. MECHANICAL/PLUMBING/DUCTS M PP D -OPTION 1: M PP D -OPTION 3:

ATTACHMENTS.

COMPONENT.

PIPING, AND CONDUIT.

MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT APPLICABLE SEISMIC HAZARD LEVEL \_\_\_\_ AND CONNECTIONS LEVEL \_\_\_\_ FOR THE PROJECT AND CONDITIONS.

MARK	MANUF.
EWH 1	A.O. SMITH

### CODES AND STANDARDS:

FORNIA BUILDING CODE (VOLUMES 1 & 2) FORNIA ELECTRICAL CODE FORNIA MECHANICAL CODE FORNIA PLUMBING CODE FORNIA ENERGY CODE FORNIA FIRE CODE

LIFORNIA REFERENCED STANDARDS CODE ICHORAGE NOTE:

IG, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND LS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30. 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

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R COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

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> DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. SHALL COMPLY WITH THE OSHPD PRE-APPROVAL (OPM #) # 0043-13

SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT

### PLUMBING PIPE MATERIALS:

A. THE FOLLOWING APPLICATIONS ARE FOR INSIDE, BELOW & ABOVE THE BUILDING SLAB AND ENDING AT A POINT 5--0" OUTSIDE THE PERIMETER BUILDING WALLS. 1. DOMESTIC WATER DISTRIBUTION PIPING BELOW GROUND: ALL INTERIOR DOMESTIC WATER PIPING SHALL BE "K" HARD DRAWN COPPER TUBING (SIL-FOS 2, FOS-DLO 7 OR OTHER SILVER

BRAZING MATERIAL). THIS IS REQUIRED FOR WATER SERVICE LINE FROM THE SHUT-OFF VALVE IN THE BUILDING TO A POINT 5 FEET OUTSIDE THE BUILDING. 2. DOMESTIC WATER DISTRIBUTION PIPING ABOVE GROUND: HARD COPPER TUBEM TYPE L.

3.SOIL, WASTE, AND VENT PIPING BELOW GROUND: SCHEDULE 40 POLY VINYL CHLORIDE (PVC) PLASTIC DWV PIPE.

4.SOIL, WASTE, AND VENT PIPING ABOVE GROUND: HUBLESS CAST-IRON SOIL PIPE OR POLY VINYL CHLORIDE (PVC) PLASTIC DWV PIPE.

5.NOTE: PVC PIPING IS NOT PERMITTED IN AIR-HANDLING CEILING SPACES, USE ONLY CAST-IRON OR DUCTILE IRON PIPE IN THESE LOCATIONS.

B. THE FOLLOWING APPLICATIONS ARE FOR ONLY FROM 5;-0" OUTSIDE THE BUILDING TO THE UTILITY POINT OF CONNECTION (POC)

UNDERGROUND DOMESTIC WATER SERVICE PIPING FROM A POINT 5 FEET OUTSIDE THE BUILDING TO THE POC.

1. 3/4"-1 1/4" SCHEDULE 40 PVC PIPE WITH SOLVENT-WELDED JOINTS.

2. 1 1/2"-3", SDR-21, PVC PIPE (ASIM D2241) CLASS 200, BELL AND SPIGOT WITH RUBBER GASKETED JOINTS.

3. 3/4"-3", TYPE "K" HARD DRAWN COPPER TUBBING (SIL-FOS 2, FOS-FLO 7 OR OTHER SILVER BRAZING MATERIAL)

4. 4" AND LARGER, SDR-18 PVC PIPE (AWWA C-900) CLASS 150 BELL AND SPIGOT WITH RUBBER GASKETED JOINTS.

UNDERGROUND SANITARY SEWE SERVICE PIPING FROM A POINT 5 FEET OUTSIDE THE BUILDING TO THE POC.

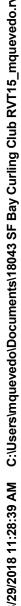
1. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL CONFORM TO ASTM D3034 (SDR-35)

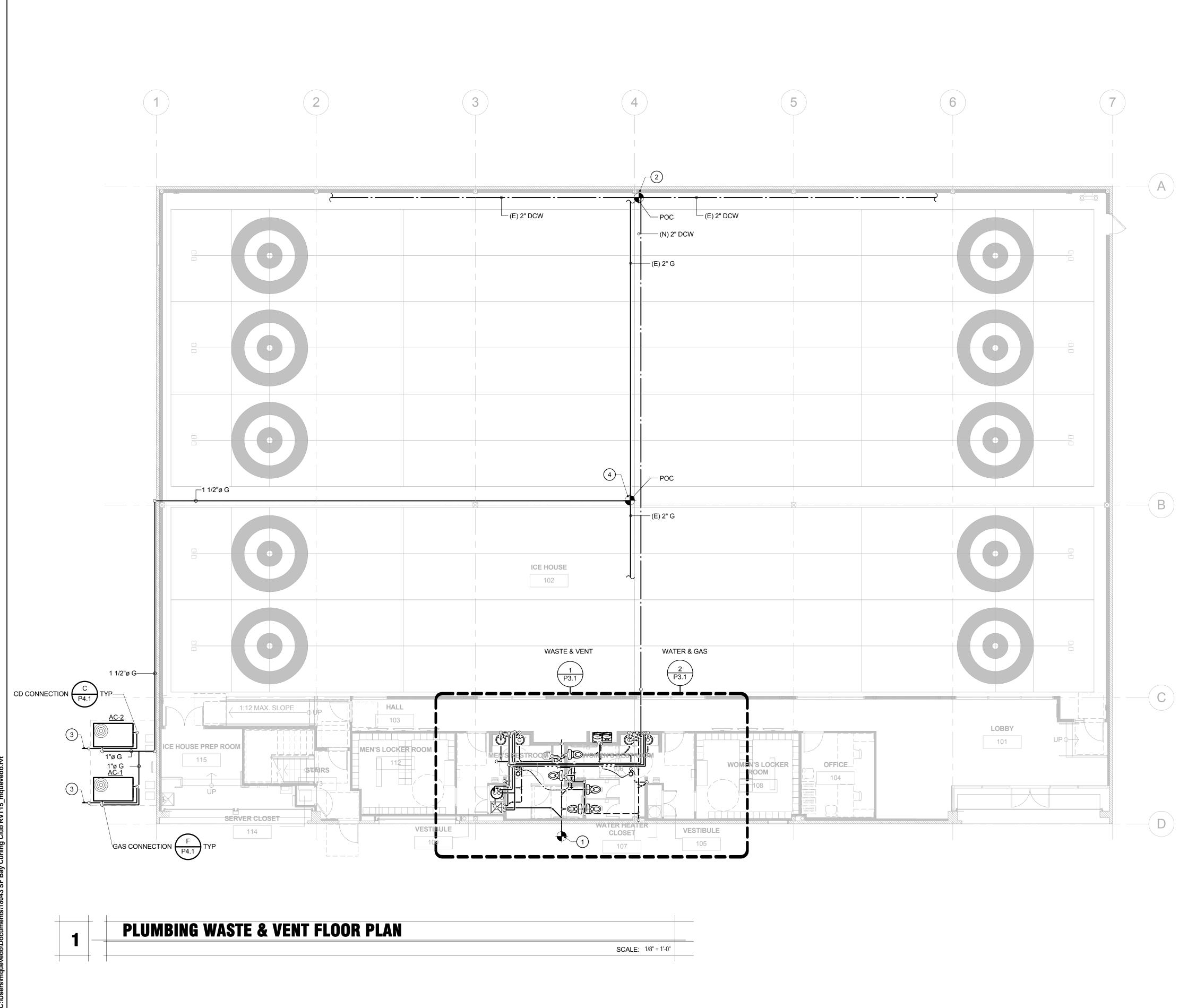
2.CAST IRON OR DUCTILE IRON PIPE SHALL CONFORM TO USASI #A-21 CLASS 50.

ELECTRIC WATER HEATER SCHEDULE								
			RECOVER		LECTRICA	L	_	
		STORAGE	Y @ 60F°		No.		OPER.	
MODEL	TYPE	CAPACITY	RISE	V-Ø-HZ	Elements	WATTS	WEIGHT	LOCATION
DEL 40	TANK	40 gal	41	460-3-60	2	6,000 W	349.00 lb	

	0	ING LEGEND
SYMBOL	ABBREVIATION	DESCRIPTION
$\left( \begin{array}{c} x \\ x \\ x \end{array} \right)$		EQUIPMENT TYPE EQUIPMENT NUMBER
$\mathbf{x}$		DETAIL / DRAWING NUMBER
X-X		SHEET NUMBER
<u>X-XX</u>		
	(N) (E)	NEW PLUMBING AND PIPING SHOWN HEAVY EXISTING PLUMBING AND PIPING SHOWN LIGHT
	SS SS	SANITARY WASTE ABOVE GROUND SANITARY WASTE BELOW GROUND
	V CW	VENT PIPE DOMESTIC COLD WATER PIPE
	HW HWR	DOMESTIC HOT WATER PIPE HOT WATER RETURN PIPE
110°	110°	TEMPERED HOT WATER PIPE
-CA -CD	CA CD	COMPRESSED AIR CONDENSATE DRAIN
-FW—— – G ——	FW G	FILTERED WATER NATURAL GAS PIPE
- ID —— LPG ——	ID LPG	INDIRECT WASTE LIQUID PROPANE GAS
- N2 N20	N2 N20	NITROGEN NITROUS OXIDE
-OA	OA	OIL FREE AREA
-02 -PW	O2 PW	OXYGEN PROCESS WASTE PIPE
RVD —— RWL——	RVD RWL	RELIEF VALVE DISCHARGE RAIN WATER LEADER
SD —— VAC ——	SD VAC	STORM DRAIN PIPE VACUUM LINE
vac —— −⋈——	GV	GATE VALVE
-⊠ ⊣oi	BV	GLOBE VALVE BALL VALVE
-N	BFV CV	BUTTERFLY VALVE CHECK VALVE
		BALANCING VALVE GAS COCK OR STOP
-₩	PRV	PRESSURE REDUCING VALVE
-⊠	TV	TEMPERING VALVE STRAINER
 -+⊘		UNION PRESSURE GAUGE AND COCK
<b>₩</b>	Р	PUMP THERMOMETER
<u> </u>	со	CLEANOUT
- <b>0</b>	WCO FCO	WALL CLEANOUT FLOOR CLEANOUT
<u>₩</u>	COTG	CLEANOUT TO GRADE PRESSURE GUAGE WELL ONLY (PETE'S PLUG)
<del>_</del>	НВ	HOSE BIBB PIPE UP
		PIPE DOWN BRANCH TOP CONNECTION
<u> </u>		BRANCH BOTTOM CONNECTION
 Ţ		BRANCH SIDE CONNECTION CAP ON END OF PIPE
>		CONCENTRIC REDUCER ECCENTRIC REDUCER
		VALVE IN RISER
$\mathbf{r}$		POINT OF CONNECTION POINT OF DEMOLITION
્ બ		CENTER LINE
	AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
	AFG AP BFF	ABOVE FINISHED GRADE ACCESS PANEL BELOW FINISHED FLOOR
	CI COTG	CAST IRON CLEANOUT TO GRADE
	DMV DN	DRAIN, WASTE, AND VENT
	DW DWG	DISHWASHER DRAWING
	(E) FCO	EXISTING FLOOR CLEANOUT
	IE IW (N)	INVERT ELEVATION INDIRECT WASTE NEW
	(N) NIC NTS	NEW NOT IN CONTRACT NOT TO SCALE
	SA SAD	SHOCK ABSORBER SEE ARCHITECTURAL DRAWINGS
	SCD SED	SEE CIVIL DRAWINGS SEE ELECTRICAL DRAWINGS
	SMD SSD	SEE MECHANICAL DRAWINGS SEE STRUCTURAL DRAWINGS
		TYPICAL UNIFORM MECHANICAL CODE
		UNIFORM PLUMBING CODE UNLESS NOTED OTHERWISE
	V VTR WCO	VENT VENT THROUGH ROOF WALL CLEANOUT
	G SCHEDULES & LEGEND	
	G FIRST FLOOR OVERALL G ENLARGEMENT	PLAN

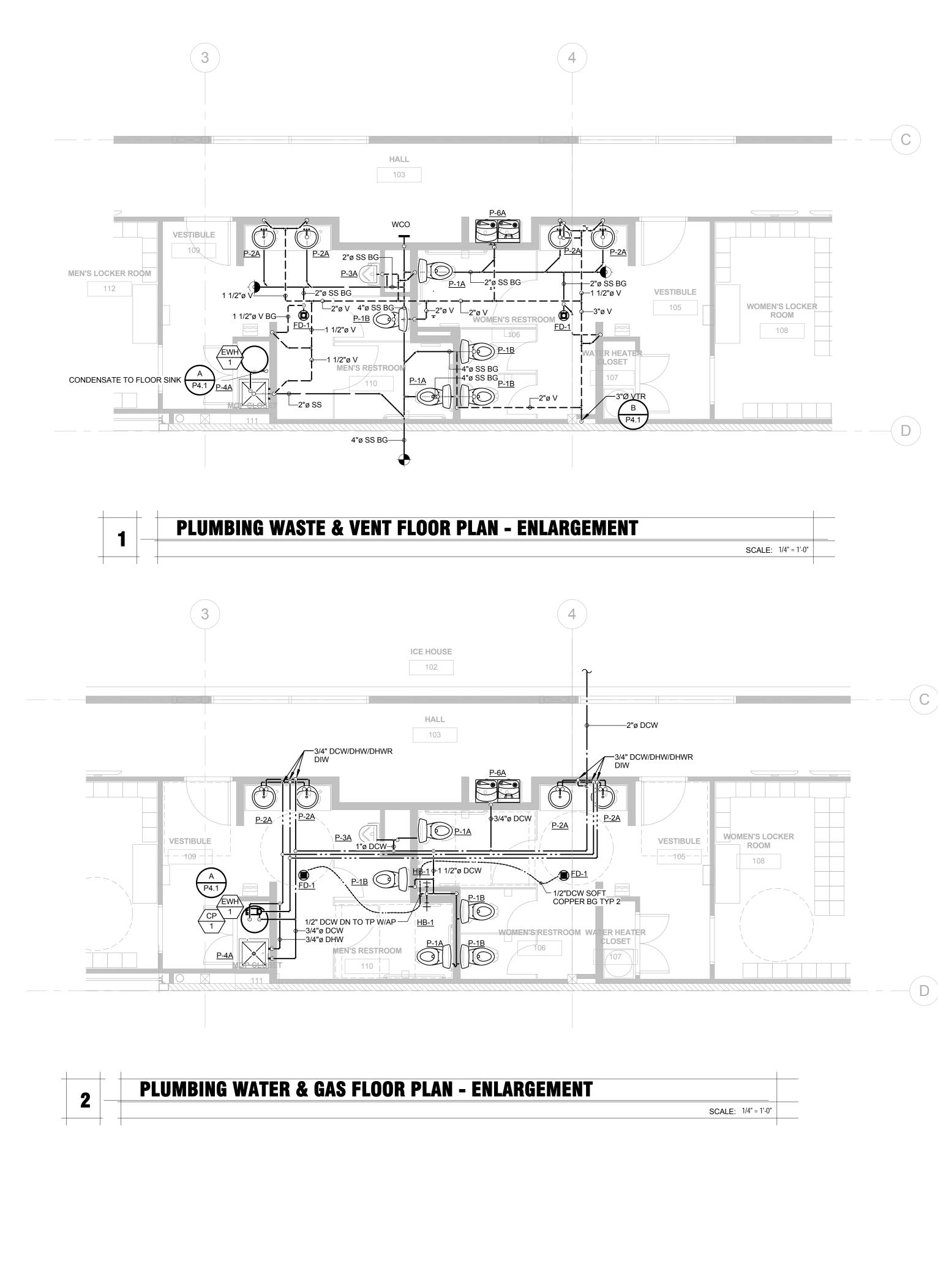






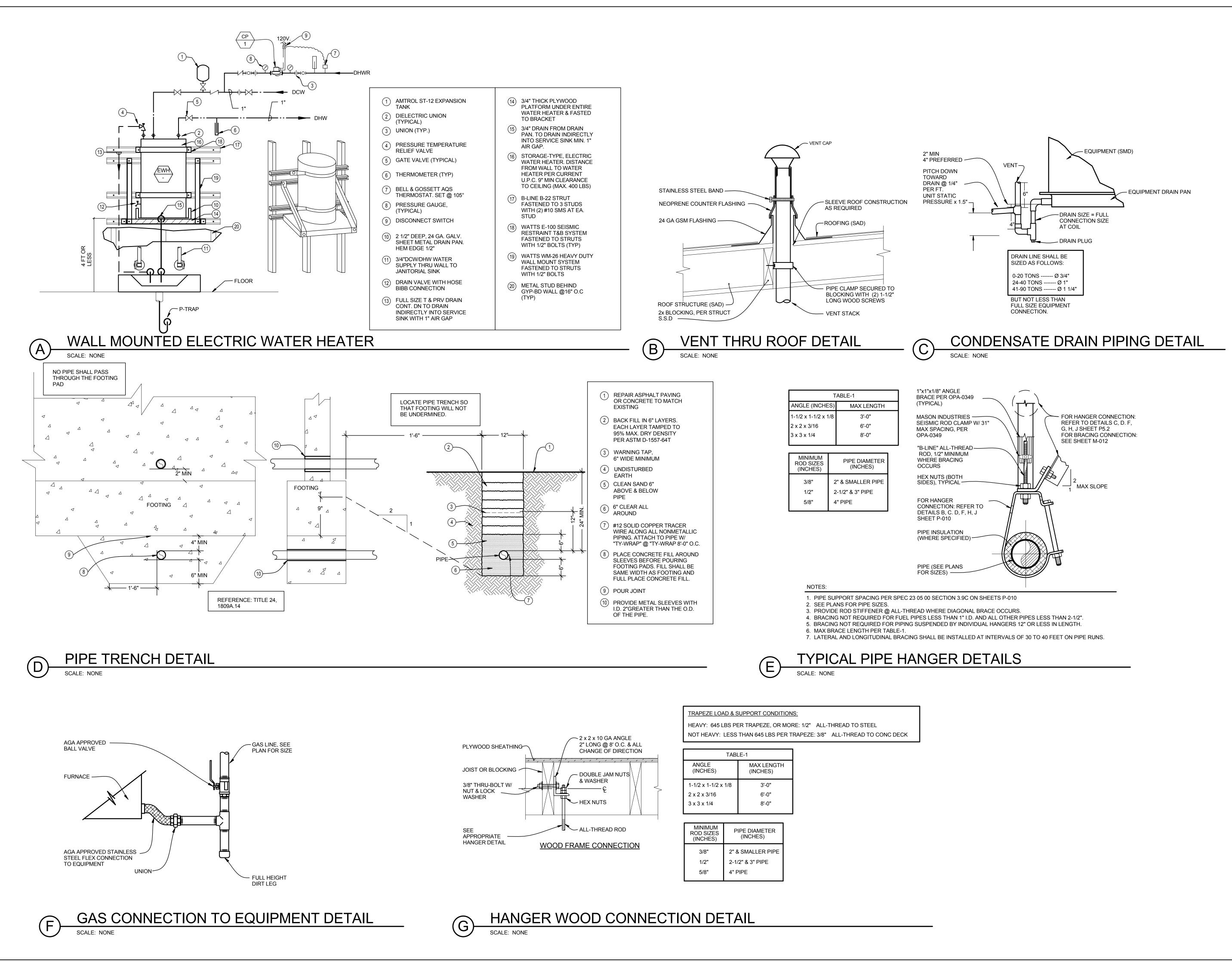
	GENERAL NOTES
1.	FOR PLUMBING GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET P1.1
2.	PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE PLUMBING WORK WITH OTHER TRADES. MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, SKYLIGHTS, BEAMS, STRUTURAL SUPPORTS, DUCTWORK ETC.
3.	CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
4.	PROVIDE ACCESS PANEL WHERE REQUIRED FOR SERVICING PLUMBING ACCESSORIES SUCH AS SHUTOFF VALVE, TRAP PRIMER, WATER HAMMER ARRESTER, ETC.
5.	PROVIDE WALL CLEANOUTS FOR SINKS AND URINALS AS REQUIRED.
6.	FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND LOCATIONS, REFER TO THE ARCHITECTURAL DRAWINGS.
7. 8.	FOR ACCESSIBLE WATER CLOSETS, LOCATE VALVE HANDLE ON THE ACCESSIBLE SIDE PER ACCESSIBLE REQUIREMENTS. FOR ACCESSIBLE LAVATORIES, PROVIDE OFFSET DRAIN AND
0.	LAVGUARD2 PROTECTIVE COVER. PROVIDE HOT WATER ONLY AT STAFF LAVATORIES.
8. 9.	CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURE TYPES PRIOR TO ORDERING FIXTURES, SEE ARCHITECTURAL PLANS. ALL BRACING OF PIPING SHALL BE INSTALLED IN ACCORDANCE
10.	WITH SMACNA SEISMIC, HAZARD LEVEL 'A'. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWING OR
	IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD INSPECTOR OF THE GOVERNING AUTHORITY.
11.	SUPPORT AND BRACING OF ALL PIPING AND DUCTWORK SHALL BE IN ACCORDANCE WITH THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" OR NO.R-003 THE "SUPERSTRUT SEISMIC RESTRAINT SYSTEM" FOR PIPING ONLY.
12.	ALL UNDERGROUND AND BELOW SLAB PIPING SHALL BE INSTALLED NO LESS THAN MINIMUM BURIAL DEPTH PER CODE. ALL PIPING THROUGH SLAB, BURIED OR UNDER NEATH FOUNDATION
	KEYNOTES
1	SANITARY SEWER TO POC @5-0" OUTSIDE BUILDING. CONTRACTOR TO ESTABLISH I.E. IN FIELD & COORDINATE WITH (N) SS LATERAL (TYP 2 PLACES) P.O.C. TO (E) DCW ABOVE CEILING.
(3)	DRAIN 3/4" CD TO DIRT, TURN DN AT DISCHARGE.
4	P.O.C. TO (E) GAS ABOVE CEILING.
-	





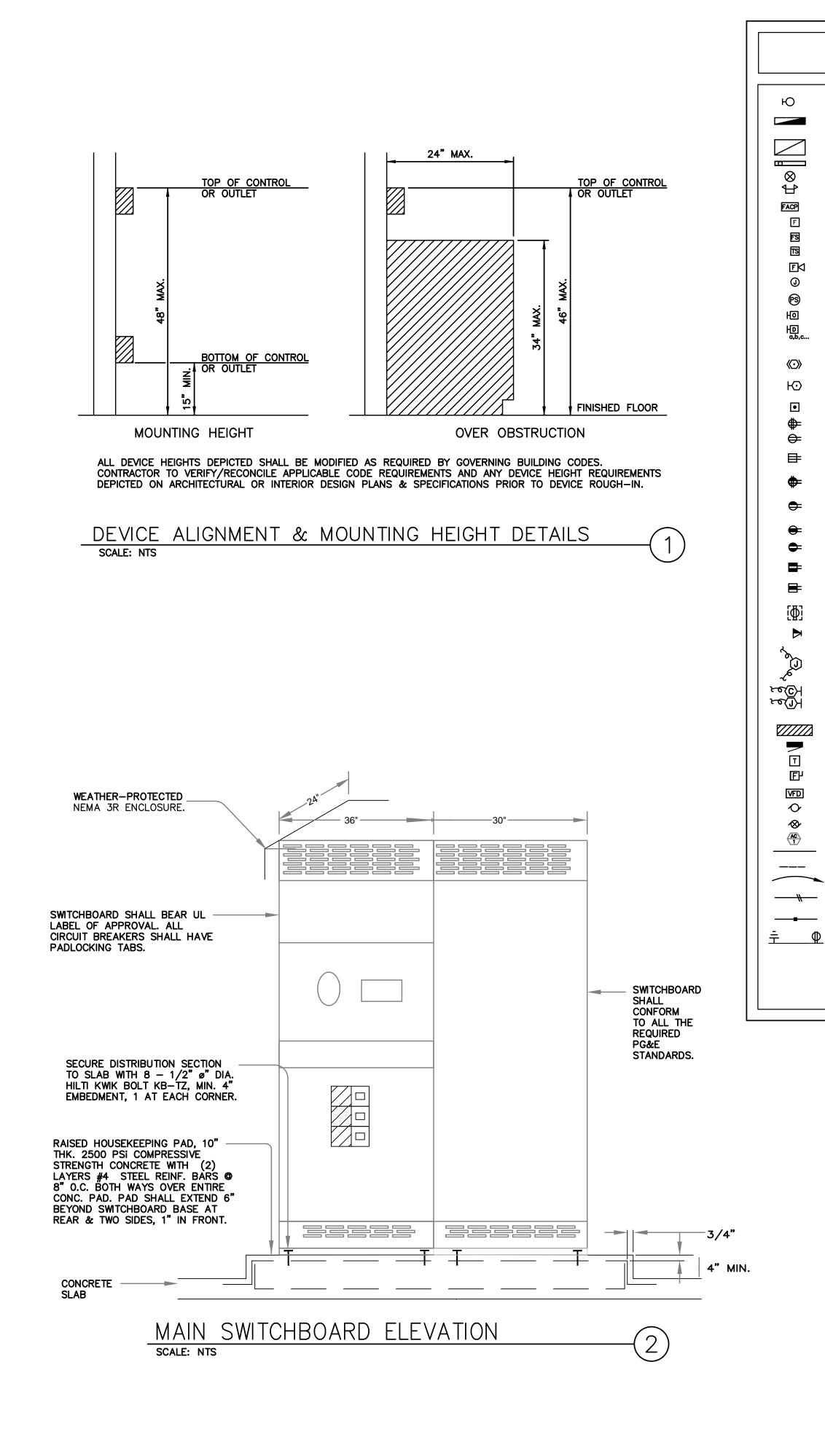
	GENERAL NOTES
1.	FOR PLUMBING GENERAL NOTES, LEGENDS, AND SYMBOLS, REFER TO SHEET P1.1
2.	PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE PLUMBING WORK WITH OTHER TRADES. MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, SKYLIGHTS, BEAMS, STRUTURAL SUPPORTS, DUCTWORK ETC.
3.	CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
4.	PROVIDE ACCESS PANEL WHERE REQUIRED FOR SERVICING PLUMBING ACCESSORIES SUCH AS SHUTOFF VALVE, TRAP PRIMER, WATER HAMMER ARRESTER, ETC.
5.	PROVIDE WALL CLEANOUTS FOR SINKS AND URINALS AS REQUIRED.
6.	FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND LOCATIONS, REFER TO THE ARCHITECTURAL DRAWINGS.
7.	FOR ACCESSIBLE WATER CLOSETS, LOCATE VALVE HANDLE ON THE ACCESSIBLE SIDE PER ACCESSIBLE REQUIREMENTS.
8.	FOR ACCESSIBLE LAVATORIES, PROVIDE OFFSET DRAIN AND LAVGUARD2 PROTECTIVE COVER. PROVIDE HOT WATER ONLY AT STAFF LAVATORIES.
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12.	ALL UNDERGROUND AND BELOW SLAB PIPING SHALL BE INSTALLED NO LESS THAN MINIMUM BURIAL DEPTH PER CODE. ALL PIPING THROUGH SLAB, BURIED OR UNDER NEATH FOUNDATION
	KEYNOTES
(1)	SANITARY SEWER TO POC AT (E) SS BELOW GRADE.
2	CONNECT TO (E) VENT UP THRU ROOF.
3	3/4" DCW DOWN IN WALL TO HOSE BIBB AND TRAP PRIMER BG. PROVIDE SOV AND ACCESS PANEL.
4	P.O.C. TO (E) DCW ABOVE CEILING.
5	PROVIDE NEW COMPOUND ANGLE STOP AND LINE TO EWH. PLUMB HW TO SINK.





	IABI	_E-1
ANGLE (INCHES)		MAX LENGTH (INCHES)
1-1/2 x 1-1/2 x	1/8	3'-0"
2 x 2 x 3/16		6'-0"
3 x 3 x 1/4		8'-0"
MINIMUM ROD SIZES (INCHES)	Р	IPE DIAMETER (INCHES)
3/8"	2" & SMALLER PIPE	
1/2"	2-1/	2" & 3" PIPE
5/8"	4" F	PIPE





## SYMBOLS

LIGHTING FIXTURE, WALL MOUNTED
EGRESS LIGHT – FIXTURES TO HAVE EMERGENCY BATTERY BACK-UP
2'x4' LIGHT FIXTURE, SEE FIXTURE SCHEDULE
1'x4' LIGHT FIXTURE, SEE FIXTURE SCHEDULE
EXIT LIGHT FIXTURE. DIRECTIONAL ARROWS AS REQUIRED.
EMERGENCY LIGHT. MOUNT AT 84" AFF.
FIRE ALARM CONTROL PANEL
FIRE PULL STATION AT +45"
FIRE FLOW SWITCH
FIRE TAMPER SWITCH
HORN / STROBE
JUNCTION BOX
DAYLIGHTING CONTROL PHOTOSENSOR.
LIGHTING CONTROL OVER RIDE SWITCH
LOW VOLTAGE WALL DIMMER SWITCH — +45". LOWER CASE LETTER(S) a,b,c NEXT TO THE DIMMER REPRESENT DIFFERENT CONTROL ZONES, 3,4 ARE THREE AND FOUR WAY CONTROLS.
CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY. SEE LIGHTING CONTROL DIAGRAMS.
WALL MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY WITH INTEGRAL MANUAL DIMMING CONTROLS.
PUSH BUTTON
DOUBLE DUPLEX RECEPTACLE 20A, 125V, +18"AFF UON.
DUPLEX RECEPTACLE 20A, 125V, +18"AFF UON
DUPLEX RECEPTACLE 20A, 125V, MOUNT OUTLET ABOVE COUNTER OR BACKSPLASH (VERIFY HEIGHT W/ARCHITECT).
DOUBLE DUPLEX RECEPTACLE 20A, 125V, WITH ONE CONTROLLED OUTLET. SEE LIGHTING CONTROL DIAGRAMS.
DUPLEX RECEPTACLE 20A, 125V, SPLIT WIRED CONTROLLED. SEE LIGHTING CONTROL DIAGRAMS.
GFCI DUPLEX RECEPTACLE 20A, 125V, +18"AFF U.O.N.
DEDICATED DUPLEX RECEPTACLE 20A, 125V, +18"AFF U.O.N.
DEDICATED DUPLEX RECEPTACLE 20A, 125V, MOUNT OUTLET ABOVE COUNTER +42" TO CENTER (VERIFY HEIGHT W/ARCHITECT).
GFCI DUPLEX RECEPTACLE 20A, 125V, MOUNT OUTLET ABOVE
COUNTER +42" TO CENTER (VERIFY HEIGHT W/ARCHITECT).
DUPLEX RECEPTACLE 20A, 125V, MOUNTED IN FLOOR BOX.
COMBINATION COMM/DATA OUTLET: +18"AFF UON, PROVIDE PULL LINE
TO NEAREST ACCESSIBLE CEILING SPACE. SEE ADDITIVE BID REQUIREMENT
TWO CHANNEL POWER POLE FOR FURNITURE FEED. WIREMOLD NP800 OR APPROVED EQUAL. VERIFY LENGTH.
1" CONDUIT AND DOUBLE GANG BOX FOR FURNITURE DATA FEED. 3/4" CONDUIT AND SINGLE GANG BOX FOR FURNITURE POWER FEED. PROVIDE WITH ONE CONTROLLED CIRCUIT.
MAIN SWITCHBOARD
LIGHTING OR DISTRIBUTION PANEL,
DISTRIBUTION TRANSFORMER, MOUNTING AS NOTED
DISCONNECT SWITCH SIZE & TYPE AS REQUIRED F=FUSED
VARIABLE FREQUENCY DRIVE (VFD)
FAN MOTOR SEE MECHANICAL PLANS AND SPECIFICATION
EXHAUST FAN – SEE MECHANICAL PLANS AND SPECIFICATION
MECHANICAL EQUIPMENT I.D. TAG - SEE MECHANICAL PLANS
CIRCUIT CONCEALED IN CEILING OR WALL, 3/4" C. MIN.
CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND, 3/4" C. MIN. HOME RUN TO PANELBOARD OR TERMINAL CABINET, 3/4"C. MIN.
DENOTES # OF #12 WIRES, NO MARKS = 2 #12, AND
1#12 GROUND.
CONDUIT SEAL OFF
TELEPHONE TERMINAL BOARD: SIZE AS SHOWN. DUPLEX RECEPTACLE & 1 #6 CU TO GROUND.
NOTE 1: ALL DIMENSIONS ARE TO CENTER LINE OF BOX.
NOTE 2: SYMBOLS INDICATED ABOVE MAY NOT NECESSARILY
APPEAR AS PART OF THESE DRAWINGS IF NOT
REQUIRED.

## ABBREVIATIONS

A ACB AF	A – AMPERE AIR CIRCUIT BREAKER AMP FUSE RATING ABOVE FINISHED FLOOR/GRADE	KV KVA KW KWH	K – KILOVOLT KILOVOLT AMPERE KILOWATT KILOWATT HOUR L –
AIC AL	AMPERE INTERRUPTING CAPACITY ALUMINUM	LCP LTG	LIGHTING CONTROL PANEL LIGHTING M -
AWG BCC C C C C C C B C C C C C C C C C C	AMERICAN WIRE GAUGE B – BELOW FINISHED CEILING C – CONDUIT DEGREE CELSIUS CIRCUIT BREAKER CIRCUIT	MAX MCB MIN MTD MTG	MAXIMUM MAIN CIRCUIT BREAKER MINIMUM MOUNTED MOUNTING N - NEW NOT APPLICABLE
CLG CO CU —	CEILING CONDUIT ONLY COPPER D -	NF NIC NL NTS	NON-FUSED NOT IN CONTRACT NIGHT LIGHT NOT TO SCALE
) ELEC EM EMT EP XP		OD – PB PH PNL PWR	0 – OUTSIDE DIAMETER P – PULL BOX PHASE PANEL POWER
EQ EQUIP EX. (E) EXT —		R (R) RECEPT REQ RM	REQUIRED ROOM
F <del>-</del> -BO -DR	DEGREE FAHRENHEIT FUSE FURNISHED BY OTHERS FEEDER	SCHED SPEC	S – SCHEDULE SPECIFICATION T –
TL TLA TLEX T'	FLEDER FLOOR FULL LOAD AMPS FLEXIBLE FEET OR FOOT G -	TBC TBB TEMP TRANSF TYP	TO BE CONFIRMED TELEPHONE BACKBOARD TEMPORARY
g gnd GFCI	GROUND GROUND FAULT CIRCUIT INTERRUPTER	UNO	U – UNLESS OTHERWISE NOTED V –
- HD HZ	H – HIGH INTENSITY DISCHARGE HERTZ	VA VA _	VOLT AMPERE VOLT OR VOLTAGE W -
– C D G SC J	I – INTERRUPTING CAPACITY INSIDE DIAMETER ISOLATED GROUND SHORT CIRCUIT CURRENT AVAILABLE J – JUNCTION BOX	W WP +48"	WATT WEATHERPROOF X – MOUNTING HEIGHT TO CENTER OF DEVICE FROM FINISHED FLOOR OR GRADE, UNLESS OTHERWISE NOTED

		LIGHTING F	IXTURE SO	CHEDL	ΙLΕ				
			LAMPS	S/DRIVERS	5				
I.D.	DESCRIPTION	APPLICATION	ТҮРЕ	INPUT VA	VOLTS	LENS	MOUNT	MANUF.	MODEL
A	2' X 2' LED LAY-IN TROFFER	Main Entry	LED	33.6	277	ACRYLIC	GRID	LITHONIA or EQUAL	2GTL 2' 40L EZ10 LP835
-ф- в	4" DOWN LIGHT	Main Entry	LED	22.5	277	NONE	CEILING	LITHONIA or EQUAL	LDN4 35 20 LO4 AR LSS 277 EZ10
$\oplus$ c	16" x 8" LED OVAL DOWN LIGHT	RINK SPACE	LED	114	277	ACRYLIC	PENDENT	LITHONIA or EQUAL	PGX LED P5 50K T5M 277 PM ???
Ø D	13" ROUND THIN	GROUND FLOOR AREAS	LED	20	277	ACRYLIC	SURFACE	JUNO or Equal	JSF 13IN 18LM 35K 90CRI MVOLT ZT WH
F	2' LED WALL BRACKET	VARIOUS AREA	LED	21	277	NONE	CEILING	ORACLE or EQUAL	2-OW1B-LED-1000L- DIM10-MVOLT35K-80 CRI
8	EXIT SIGN	THROUGH OUT	LED	0.8	277	ACRYLIC	CEILING	LITHONIA or EQUAL	EGR LED EL M6

## GENERAL NOTES

- 1. These general notes are intended to assist the contractor during execution of the work, however, they do not cover all of the specification requirements.
- 2. Locations of equipment are diagrammatic and job conditions may not always permit their installation exactly as shown; however, the design shall be followed as closely as existing conditions and actual building construction permit. The Contractor shall investigate the structural and finish conditions affecting the work and shall provide such fittings and accessories as may be required to meet conditions whether shown or not.
- 3. Coordinate all work with other trades to provide a complete installation. Connect all equipment furnished by others as required. Install all work to clear architectural and structural members.
- 4. Placement and circuiting of exit signs and egress lighting shall comply with the California Building Code (CBC) requirements and with the local fire marshal.
- 5. Install all equipment, conduits, outlets, and fixtures in strict accordance with all applicable codes. (National Electrical Code (NEC), California Electrical Code (CEC) & California Energy Code — Title 24, Part 6)
- 6. Do not scale electrical plans for fixtures, devices, or appliance locations. Use figured dimensions if given or check mechanical and architectural plans.
- 7. All material and equipment is to be listed and installed per manufacturer's specifications, CEC 110-3 and California Title 24.
- 8. The final location of all outlets shall be verified with the owner at the time of construction.
- 9. All outdoor electrical equipment shall be weatherproof.
- 10. All conduit shall be routed concealed unless noted on the plan or approved by the architect or engineer.
- 11. All wiring shall be installed in conduit.
- 12. Provide water tight flex with ground wire for outside mechanical connections.
- 13. The minimum size of all conductors shall be #12 CU or as shown in CEC Table 310-5.
- 14. Provide minimum working clearance per CEC 110-26.
- 15. Outlet boxes installed in fire walls shall be one piece steel and installed in separate (staggered) stud penetrations. Minimum 24 inch horizontal separation.
- 16. Breakers feeding circuits with a common neutral are to be fed in conformance with CEC Section 210.4 (B) using a common trip mechanism.
- 17. Lighting & switches/sensors to be from the same manufacturer.
- 18. All receptacles located in the kitchen/food preparation areas shall be gfci.
- 19. All receptacles located outdoors shall have wet while in use coverplates.



### SECTION 26 00 00 - ELECTRICAL WORK

PART 1 - GENERAL 1.01 CONDITIONS:

- A. The Requirements of General Conditions and Special Conditions apply to Work of this Section as if fully repeated herein.
- 1.02 WORK INCLUDED:
  - A. Provide a complete working installation with all material and equipment as shown and specified.
  - B. Wiring Methods: Provide the following wiring methods:
    - Concealed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway, metal clad cable.
    - 2. Exposed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway, metal clad cable.
    - 3. Above Accessible Ceilings: Use only building wire, Type THHN/THWN-2 insulation, in raceway, metal clad cable.
    - Wet or Damp Interior Locations: Use only building wire, Type THHN/THWN-2 insulation in raceway.
    - 5. Exterior Locations: Use only building wire, Type XHHW-2 insulation, in raceway. 6. Underground Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway.
  - C. Make electrical connections for equipment furnished as part of Work of other Sections.
  - D. Include sealing and fireproofing of conduits and cables.
  - E. Electrical products are anchored and fastened to building elements and finishes as follows:
  - Concrete Structural Elements: Provide expansion anchors and powder actuated anchors.
  - 2. Steel Structural Elements: Provide beam clamps and spring steel clips.
  - 3. Concrete Surfaces: Provide expansion anchors.
  - 4. Solid Masonry Walls: Provide expansion anchors.
  - 5. Sheet Metal: Provide sheet metal screws.
  - 6. Wood Elements: Provide wood screws.
  - F. Electrical components are identified as follows:
    - Nameplate for each electrical distribution and control equipment enclosure.
  - 2. Label for identification of receptacles, light switches, and control device stations.
  - 3. Wire marker for each conductor at panel boards' gutters, pull boxes, outlet and junction boxes, and each load connection.
  - 4. Permanent ink felt tip marker on cover indicating panel and circuit for junction boxes located above suspended ceilings and below ceilings in non-public areas.
- 1.03 QUALITY ASSURANCE:
  - A. Requirements of Regulatory Agencies:
    - Nothing in the Contract Documents shall be construed to permit Work not conforming to applicable codes, laws, ordinances, rules or regulations.
  - 2. All installed or connected equipment shall be labeled or certified for its use by a nationally recognized testing laboratory.
  - 3. All materials and equipment shall be installed in accordance with manufacturer's recommendations and in accordance with the National Electrical Contractors Association (NECA) Standard of Installation.
- 1.04 SUBMITTALS:
- A. General:
  - Submit shop drawings and supplemental data for all materials and equipment specified in this Division.
- 1.05 SITE EXAMINATION AND CONDITIONS:
- A. Examine site; verify dimensions and locations against Drawings and become informed of all conditions under which Work is to be done before submitting proposals.
- 1.06 GUARANTEE:
- A. Provide one year guarantee. Repair or replace as may be necessary any defective work, material or part with no increase in Contract Sum including repair or replacement of other Work, furnishing, equipment or premises caused by such repair or replacement of defective work.
- PART 2 PRODUCTS
- 2.01 DESIGN REQUIREMENTS
  - A. Minimum Raceway Size:
  - 1. 3/4 inch.
  - 2. 1 inch outside foundation line.
- 2.02 Building Wire:
  - A. Product Description: Single conductor insulated wire.
  - B. Conductor: Copper THHN/THWN except as noted.
  - C. Insulation Voltage Rating: 600 volts.
  - D. Insulation Temperature Rating: 90 degrees C.
  - E. Insulation Material: Thermoplastic.
- 2.03 ARMORED CABLE
  - A. Conductor: Copper.
  - B. Insulation Voltage Rating: 600 volts.
  - C. Insulation Temperature Rating: 90 degrees C.
  - D. Insulation Material: Thermoplastic.
  - E. Copper green grounding conductor.
  - F. Armor Material: Steel.
  - G. Armor Design: Galvanized Steel Interlocked (Green Striped).

2.04 METAL CLAD CABLE	5.
	6.
	2.16
	A. Sv
	Sv
	ins
	SW
	rei Se
	fin
	bra
crosses or end-to-end connections.	sh 2.17 INTE
enclosed with a color coded outer thermoplastic shell.	A. Pr ac
installation with hand or hydraulically operated crimping tools and dies. Provide 2-hole lugs for size #4/0 AWG and larger wire where terminated to bus bars.	2.18 FLA A. Ele are
	ma
	sh
	2.19 NAM
	A. Pr
	ba
	B. Le
	1.
	2.
	C. Mi
	2.20 LAB
	A. La
	ca PART 3 - E
	3.01 GEN
	A. Ma
	US
	B. Al
	ins
	C. Pr
	an blo
furnish 1/2 inch male fixture studs where required.	D. Ec
2. Concrete Ceiling Boxes: Concrete type.	sh
B. Nonmetallic Outlet Boxes: NEMA OS 2.	fo
C. Cast Boxes: NEMA FB 1, Type FD, aluminum. Furnish gasketed cover by box manufacturer.	3.02 INST
2.12 WALL SWITCHES AND PLATES:	A. Ins
A. Product Description: NEMA WD 1, Specification Grade, AC only general-use snap switch.	B. Ins
B. Body and Handle: White plastic with toggle handle.	C. Ins
C. Ratings:	as
1. Voltage: 120-277 volts, AC.	D. Do
2. Current: 20 amperes.	E. Ins
D. Wall Plates shall be Stainless Steel.	F. Co
2.13 RECEPTACLES AND PLATES:	cir Gula
A. Product Description: NEMA WD 1, Specification grade general use receptacle.	G. Ins H. Ins
B. Device Body: White plastic.	I. Ide
C. Configuration: NEMA WD 6.	i. iut ex
D. Convenience Receptacle: Type 5-20.	cle
E. GFCI Receptacle: Convenience receptacle with integral ground fault circuit interrupter to	J. Co
	CO
2.14 ENCLOSED SWITCHES:	lie
A. Product Description: NEMA KS 1, Type HD enclosed load interrupter knife switch. Handle	co K. Us
lockable in OFF position.	N. US
B Fuse cline: Designed to accommodate NEMA EU1. Class B and I fuses	
B. Fuse clips: Designed to accommodate NEMA FU1, Class R and J fuses.	L. Ins ac
C. Enclosure: NEMA KS 1, as required to meet conditions. Fabricate enclosure from steel	
C. Enclosure: NEMA KS 1, as required to meet conditions. Fabricate enclosure from steel finished with manufacturer's standard gray enamel.	ac
C. Enclosure: NEMA KS 1, as required to meet conditions. Fabricate enclosure from steel	ac 3.03 INST
	<ul> <li>A. Conductor: Copper:</li> <li>B. Insulation Voltage Rating: 600 volts.</li> <li>C. Insulation Temperature Rating: 90 degrees C.</li> <li>D. Insulation Material: Thermoplastic.</li> <li>E. Full-Sized equipment grounding/bonding conductor.</li> <li>F. Armor Material: Steel.</li> <li>G. Armor Design: Green Steel Interlocked Armor.</li> <li>H. Jacket: None.</li> <li>205 Wining Connectors:</li> <li>A. Bolted pressure connectors: Cast bronze compression bolts designed for parallel taps, tees, crosses or end-0-end connections.</li> <li>B. Insulated spring wire connectors: Cast bronze compression bolts designed for parallel taps, tees, crosses or end-0-end connections.</li> <li>C. Compression type termination lugs: Tin plated copper high-compression type lugs for installation with and or hydraulically operated crimping tools and dies. Provide 2-hole lugs for size 440 AWG and larger wire where terminated to bus bars.</li> <li>C. B. Hittings and Conduit Rodies: NEMA FB 1; Material to match conduit. All steel fittings.</li> <li>C. Fittings and Conduit Bodies: NEMA FB 1; Material to match conduit. All steel fittings.</li> <li>C. Futings and Conduit Bodies: NEMA FB 1; Material to match conduit. All steel fittings.</li> <li>C. HOUNDIT HT FLEXIBLE METAL CONDUIT:         <ul> <li>A. Product Description: Interlocked steel construction.</li> <li>B. Fittings: NEMA FB 1.</li> <li>COUNTIGHT FLEXIBLE METAL CONDUIT:                 <ul> <li>A. Product Description: Interlocked steel construction with PVG jacket.</li> <li>B. Fittings: NEMA FB 1; steel set screw type.</li> <li>Count Description: NEMA TC 2; Schedule 40 PVC for normal power and 80 PVC for emergency power.</li> <li>Fittings and Conduit Boxes: NEMA TC 3.</li> </ul> </li> <li>A. Shoet Metal Outlet Boxes: NEMA CS 1, galvanized steel.</li> <ul> <li>Luminaire and</li></ul></ul></li></ul>

2.15 BRANCH CIRCUIT PANELBOARDS:

A. Description: NEMA PB1, circuit breaker type, lighting and appliance branch circuit panelboard.

B. Minimum fully rated short circuit rating: As indicated on drawing.

C. Materials:

- 1. Panelboard Bus: Copper, current carrying components, ratings as indicated on Drawings. Furnish copper ground bus in each panelboard.
- Molded Case Circuit Breakers: UL 489, bolt-on type thermal magnetic trip circuit breakers, with common trip handle for all poles, listed as Type SWD for lighting circuits, Type HACR for air conditioning equipment circuits, Class A ground fault interrupter circuit breakers as indicated on Drawings. Provide UL class 760 arc-fault interrupter circuit breakers as indicated on Drawings. Do not use tandem circuit breakers.
- Enclosure: NEMA PB 1, Type 1 or Type 3R for outdoor applications. 3.
- 4. Cabinet Box: 6 inches deep and 20 inches wide.

- Finish in manufacturer's standard gray enamel. Switchboard
- shall be white with black background.
- **TERIOR LUMINAIRES:** 
  - accessories as scheduled.
- ASH PROTECTION
- shall be a pre-printed label which references NFPA 70E.
- MEPLATES
- ackground color. etter Size:

- *Minimum nameplate thickness: 1/8 inch.*
- BELS
- artridge.

### EXECUTION NERAL:

- nstallation when completed.
- STALLATION RECEPTACLES AND SWITCHES
- nstall devices plumb and level.
- nstall switches with OFF position down.
- is instructed by manufacturer.
- Do not share neutral conductor on load side of dimmers.
- nstall receptacles with grounding pole on top.
- circuit equipment grounding conductor.

- lear tape cartridge.
- conductors directly under device screws.

nstall galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.

- STALLATION ENCLOSED SWITCHES
- nstall enclosed switches where indicated.
- nstall enclosed switches plumb.
- C. Height: 5 feet to operating handle. D. Install fuses for fusible disconnect switches.
- panel and circuit number supplying the switch.
- installed.
- 3.04 Installation: Nameplate
  - A. Install nameplate parallel to equipment lines.
  - corrosive-resistant mechanical fasteners, or adhesive.
  - D. Secure nameplate to equipment front using screws.

Cabinet Front: Flush or Surface cabinet front with concealed trim clamps, concealed hinge, metal directory frame, and flush lock keyed alike.

Switchboard: Shall conform to latest applicable requirements of IEEE, NEMA, UL. Switchboard shall be dead front, dead rear, safety type, with full height copper buses, nsulated neutral and ground bus, NEMA-3R enclosure. Do not use cabling inside witchboard as substitute for bus bar conductors. Distribution protective devices shall be emovable from front, and shall be group mounted with line and load connections accessible. Set board on housekeeping reinforced concrete pad, minimum three inches (3") above inished grade. Anchor board to concrete pad to resist seismic forces. Each feeder and ranch circuit breaker shall be identified with engraved laminated phenolic plate. Letters

Product Description: Complete interior luminaire assemblies, with features, options, and

Electrical equipment including switchboards, panelboards, disconnect switches, etc. which re likely to require examination, adjustment or servicing while energized shall be field narked to warn of potential electric arch flash hazards per CEC Article 110.16. Marking

Product Description: Laminated three-layer plastic with engraved letters on contrasting

1/4 inch high letters for identifying individual equipment and loads.

1/2 inch high letters for identifying grouped equipment and loads

abels: Thermal transfer laminated adhesive tape with 1/8 inch black letters on clear tape.

Manufacturer's Directions: Follow manufacturer's directions where manufacturers of articles used furnish directions covering points not specified or shown.

All Work shall be done in orderly, workmanlike manner and present neat appearing

Provide metal backing plates, anchor plates, and similar items that are required for inchorage for the Work of this Section; securely weld or bolt to metal framing. Wood locking or backing will not be permitted in combination with metal framing.

Equipment: Accurately set and level, neatly place support and anchor properly. Anchorage hall conform to the requirements of California Building Code. No allowance will be made or negligence to foresee means of placing, installing or supporting equipment in position.

nstall wall dimmers to achieve full rating specified and indicated after derating for ganging

Connect wiring device grounding terminal to outlet box with bonding jumper and branch

nstall wall plates on flush mounted switches, receptacles, and blank outlets.

nstall decorative plates on switch, receptacle, and blank outlets in finished areas.

dentify receptacle and light switch cover plate with panel and branch circuit number, (for example G-3), with thermal transfer laminated adhesive tape with 1/8 inch black letters on

Connect wiring devices by wrapping solid conductor around screw terminal. Install stranded conductor for branch circuits 10 AWG and smaller. When stranded conductors are used in eu of solid, use crimp on fork terminals for device terminations. Do not place bare stranded

Jse jumbo size plates for outlets installed in masonry walls.

E. Install engraved plastic nameplates. Engrave nameplates with the equipment served and the

F. Apply adhesive tag on inside door of each fused switch indicating NEMA fuse class and size

B. Install nameplate for each electrical distribution and control equipment enclosure with

C. Install nameplates for each control panel and major control components located outside panel with corrosive-resistant mechanical fasteners, or adhesive.

E. Secure nameplate to inside surface of door on recessed panelboard in finished locations.



- F. Install nameplates for the following:
  - 1. Switchboards.
  - 2. Switchgear.
  - 3. Motor Control Centers.
  - 4. Distribution Panelboards
  - 5. Panelboards.
  - 6. Transformers.
  - 7. Service Disconnects.
  - 8. Fused and Non-Fused Disconnects.
  - 9. Automatic Transfer Switches.
- G. Provide color coded nameplates that present, as applicable, the following information:
  - 1. Equipment or device designation.
- 2. Amperage, kVA, or horsepower rating where applicable.
- 3. Voltage or signal system name.
- 4. Source or power or control.
- 5. Examples:
- a. Boards: CH2A; 1000A; 277/480V, 3-Phase, 4-Wire;.
- b. Feeder Power Supply for Panel "XXX" Originates at Panel "XXX".
- Transformers: T-1; 112.5kVA; 480V to 120/208V, 3-Phase, 4-Wire; Served from H2A; Load Served L2A.
- Disconnects and Individual Motor Starters: AHU-1; 25HP; 480V, 3-Phase, 3-Wi Served from EHD5.
- e. Available Fault Current: XX,XXX Amperes. Date Calculated: XX/XX/XX.
- 3.05 INSTALLATION CONDUCTORS
  - A. Route wire and cable to meet Project conditions.
- B. Neatly train and lace wiring inside boxes, equipment, and panelboards.
- C. Identify and color code wire and cable under wire color section. Identify each conductor its circuit number or other designation indicated.
- D. Special Techniques--Building Wire in Raceway:
  - 1. Pull conductors into raceway at same time.
  - 2. Install building wire 4 AWG and larger with pulling equipment.
- E. Special Techniques Cable:
  - 1. Protect exposed cable from damage.
  - Support cables above accessible ceiling, using spring metal clips or metal cable ties support cables from structure. Do not rest cable on ceiling panels.
- 3. Use suitable cable fittings and connectors.
- F. Special Techniques Wiring Connections:
  - 1. Clean conductor surfaces before installing lugs and connectors.
  - 2. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise.
  - 3. Tape uninsulated conductors and connectors with electrical tape to 150 percent of insulation rating of conductor.
  - 4. Install split bolt connectors for copper conductor splices and taps, 6 AWG and large
  - 5. Install solderless pressure connectors with insulating covers for copper conductor splices and taps, 8 AWG and smaller.
  - 6. Install insulated spring wire connectors with plastic caps for copper conductor splice and taps, 10 AWG and smaller.
- G. Install stranded conductors for branch circuits. Install crimp on fork terminals for device terminations. Do not place bare stranded conductors directly under screws.
- H. Install terminal lugs on ends of 600 volt wires unless lugs are furnished on connected de such as circuit breakers.
- Size lugs in accordance with manufacturer's recommendations terminating wire sizes. I 2-hole type lugs to connect wires 4 AWG and larger to copper bus bars.
- J. For terminal lugs fastened together such as on motors, transformers, and other apparat or when space between studs is small enough that lugs can turn and touch each other, insulate for dielectric strength of 2-1/2 times normal potential of circuit.

3.06 WIRE COLOR

- A. General:
  - For wire sizes 10 AWG and smaller, install wire colors in accordance with the follow
     a. Black and red for single phase circuits at 120/240 volts.
  - b. Black, red, and blue for circuits at 120/208 volts single or three phase.
  - c. Orange, brown, and yellow for circuits at 277/480 volts single or three phase.
  - 2. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices boxes. Colors are as follows:
    - a. Black and red for single phase circuits at 120/240 volts.
    - b. Black, red, and blue for circuits at 120/208 volts single or three phase.
    - c. Orange, brown, and yellow for circuits at 277/480 volts single or three phase.
- B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number.
- C. Branch Circuit Conductors: Install three or four wire home runs with each phase unique color coded.
- D. Feeder Circuit Conductors: Uniquely color code each phase.
- E. Ground Conductors:
  - 1. For 6 AWG and smaller: Green.
  - 2. For 4 AWG and larger: Identify with green tape at both ends and visible points inclu junction boxes.
- 3.07 INSTALLATION RACEWAY:

	А.	Raceway routing is shown in approximate locations unless dimensioned. Route to complete wiring system.	3.11 INSTALLATION - LUMIN
	В.	Arrange raceway supports to prevent misalignment during wiring installation.	<ul> <li>A. Install suspended lumi pendant length require</li> </ul>
	C.	Support raceway using coated steel or malleable iron straps, lay-in adjustable hangers,	B. Support luminaires ind
	01	clevis hangers, and split hangers.	C. Install recessed lumina
	D.	Group related raceway; support using conduit rack. Construct rack using steel channel; provide space on each for 25 percent additional raceways.	requirements for fire ra D. Install clips to secure r
	E.	Do not support raceway with wire or perforated pipe straps. Remove wire used for temporary supports	3.12 TESTING AND ADJUST
	F.	Do not attach raceway to ceiling support wires or other piping systems.	A. Furnish all labor and te defined as that work n
	G.	Construct wireway supports from steel channel.	connected, and check
	Н.	Route exposed raceway parallel and perpendicular to walls.	instruction manuals, a
	I.	Route raceway installed above accessible ceilings parallel and perpendicular to walls.	manner.
	J.	Route conduit in and under slab from point-to-point.	B. Test each individual ci
	Κ.	Maintain clearance between raceway and piping for maintenance purposes.	C. Test each individual re
	L.	Maintain 12 inch clearance between raceway and surfaces with temperatures exceeding 104 degrees F.	D. Test each ground fault
	М.	Cut conduit square using saw or pipe cutter; de-burr cut ends.	
	N.	Bring conduit to shoulder of fittings; fasten securely.	
m	Ο.	Join nonmetallic conduit using cement as recommended by manufacturer. Wipe nonmetallic conduit dry and clean before joining. Apply full even coat of cement to entire area inserted in fitting. Allow joint to cure for minimum 20 minutes.	
ires;	P.	Install conduit hubs to fasten conduit to sheet metal boxes in damp and wet locations and to	
		cast boxes.	
	Q.	Install no more than equivalent of three 90 degree bends between boxes. Install conduit bodies to make sharp changes in direction, as around beams. Install factory elbows for bends in metal conduit larger than 2 inch size.	
	R.	Avoid moisture traps; install junction box with drain fitting at low points in conduit system.	
' with	S.	Install fittings to accommodate expansion and deflection where raceway crosses seismic and expansion joints.	
	Т.	Install suitable pull string or cord in each empty raceway except sleeves and nipples.	
	U.	Install suitable caps to protect installed conduit against entrance of dirt and moisture.	
	V.	Surface Raceway: Install flat-head screws, clips, and straps to fasten raceway channel to surfaces; mount plumb and level. Install insulating bushings and inserts at connections to outlets and corner fittings.	
s to	W.	Close ends and unused openings in wireway.	
	3.08 II	NSTALLATION - BOXES:	
	Α.	Install wall mounted boxes at elevations to accommodate mounting heights as indicated on Drawings.	
	В.	Adjust box location up to 10 feet prior to rough-in to accommodate intended purpose.	
	C.	Install pull boxes and junction boxes above accessible ceilings and in unfinished areas only.	
	D.	In Accessible Ceiling Areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed luminaire.	
er.	E.	Locate flush mounting box in masonry wall to require cutting of masonry unit corner only. Coordinate masonry cutting to achieve neat opening.	
	F.	Do not install flush mounting box back-to-back in walls; install with minimum 6 inches separation. Install with minimum 24 inches separation in acoustic rated walls.	
es	G.	Secure flush mounting box to interior wall and partition studs. Accurately position to allow for	
		surface finish thickness.	
	Η.	Install stamped steel bridges to fasten flush mounting outlet box between studs.	
evice,	I. 1	Install flush mounting box without damaging wall insulation or reducing its effectiveness.	
,	J. K.	Install adjustable steel channel fasteners for hung ceiling outlet box. Do not fasten boxes to ceiling support wires or other piping systems.	
nstall	IX.	Support boxes independently of conduit.	
	<u>–</u> . М.	Install gang box where more than one device is mounted together. Do not use sectional box.	
tus,	N.	Install gang box with plaster ring for single device outlets.	
	3.09 II	NSTALLATION - PANELBOARDS:	
	Α.	Install panelboards in accordance with NEMA PB 1.1.	
	В.	Install panelboards plumb.	
ving:	C.	Install recessed panelboards flush with wall finishes.	
	D.	Height: 6 feet to top of panelboard, install panelboards taller than 6 feet with bottom no more than 4 inches above floor.	
	E.	Install filler plates for unused spaces in panelboards.	
es and	F.	Provide typed circuit directory for each branch circuit panelboard. Revise directory to reflect circuiting changes to balance phase loads. Identify each circuit as to its clear, evident and specific purpose of use.	
	G.	Install engraved plastic nameplates.	
	Н.	Install spare conduits out of each recessed panelboard to accessible location above ceiling. Minimum spare conduits: 5 empty 1 inch. Identify each as SPARE.	
	3.10 ll	NSTALLATION - TRANSFORMERS:	
ly		Use flexible conduit, 2 feet minimum length, for connections to transformer case. Make conduit connections to side panel of enclosure.	
	В.	Support transformers as follows:	
		<ol> <li>Mount wall-mounted transformers using integral flanges or accessory brackets furnished by the manufacturer.</li> </ol>	
uding		<ol> <li>Mount floor-mounted transformers on vibration isolating pads suitable for isolating the transformer noise from the building structure.</li> <li>Mount transformers as indicated</li> </ol>	
	0	3. Mount trapeze-mounted transformers as indicated.	

C. Unless labeled otherwise, ventilated transformers shall have all sides located at least 6 inches away from walls or other obstructions.

### NAIRES:

ninaires using pendants supported from swivel hangers. Provide red to suspend luminaire at indicated height.

dependent of ceiling framing.

aires using accessories and firestopping materials to meet regulatory rating.

recessed grid-supported luminaires in place.

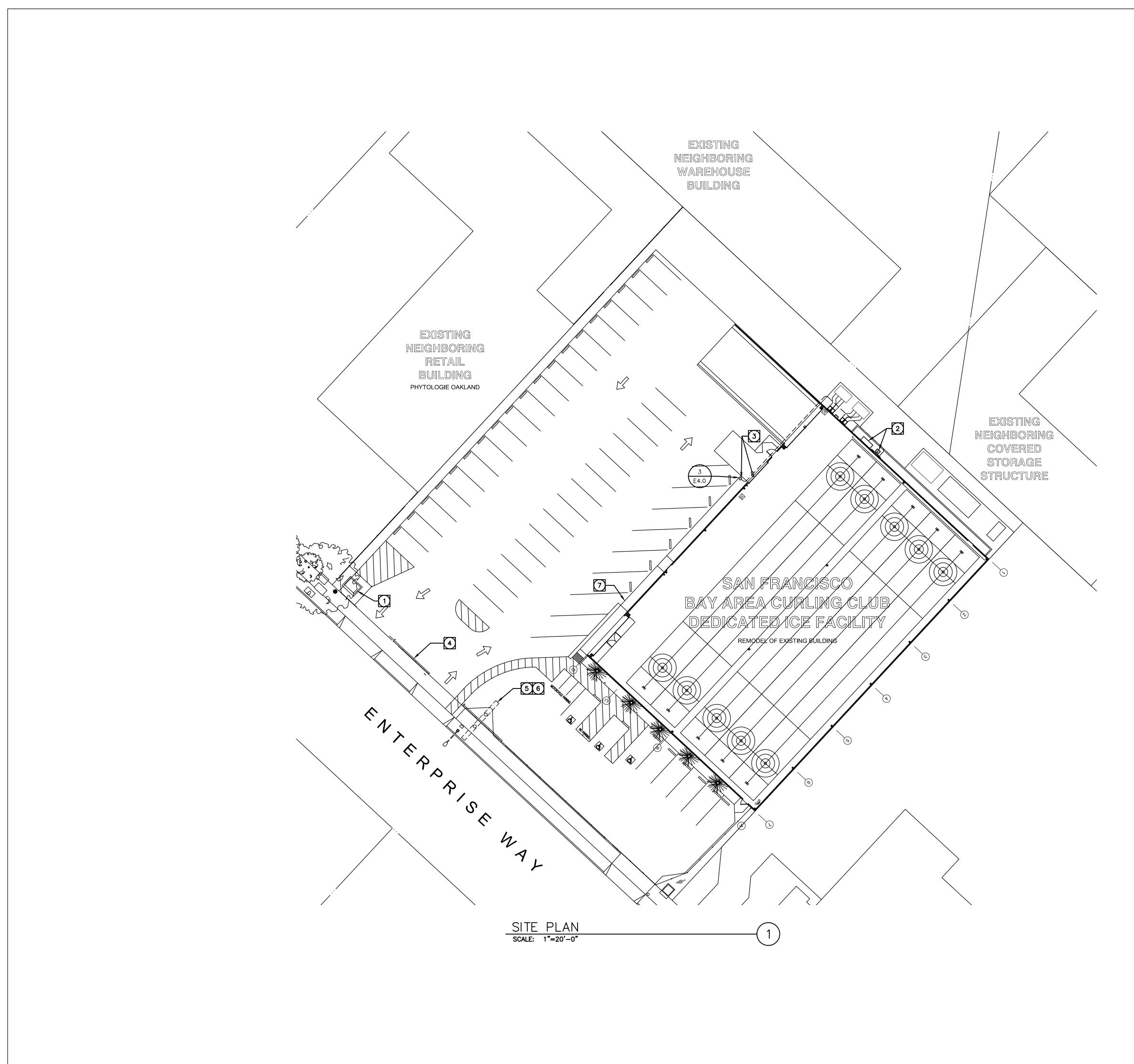
test equipment required for the Work of this Division. Testing work is necessary to establish that equipment has been properly assembled, ked to verify that intent and purpose of Drawings, manufacturer's and directions of Architect have been accomplished in satisfactory

circuit at panel with equipment connected for proper operation. receptacle device for proper polarity and grounding.

t circuit interrupter for proper operation.

END OF SECTION



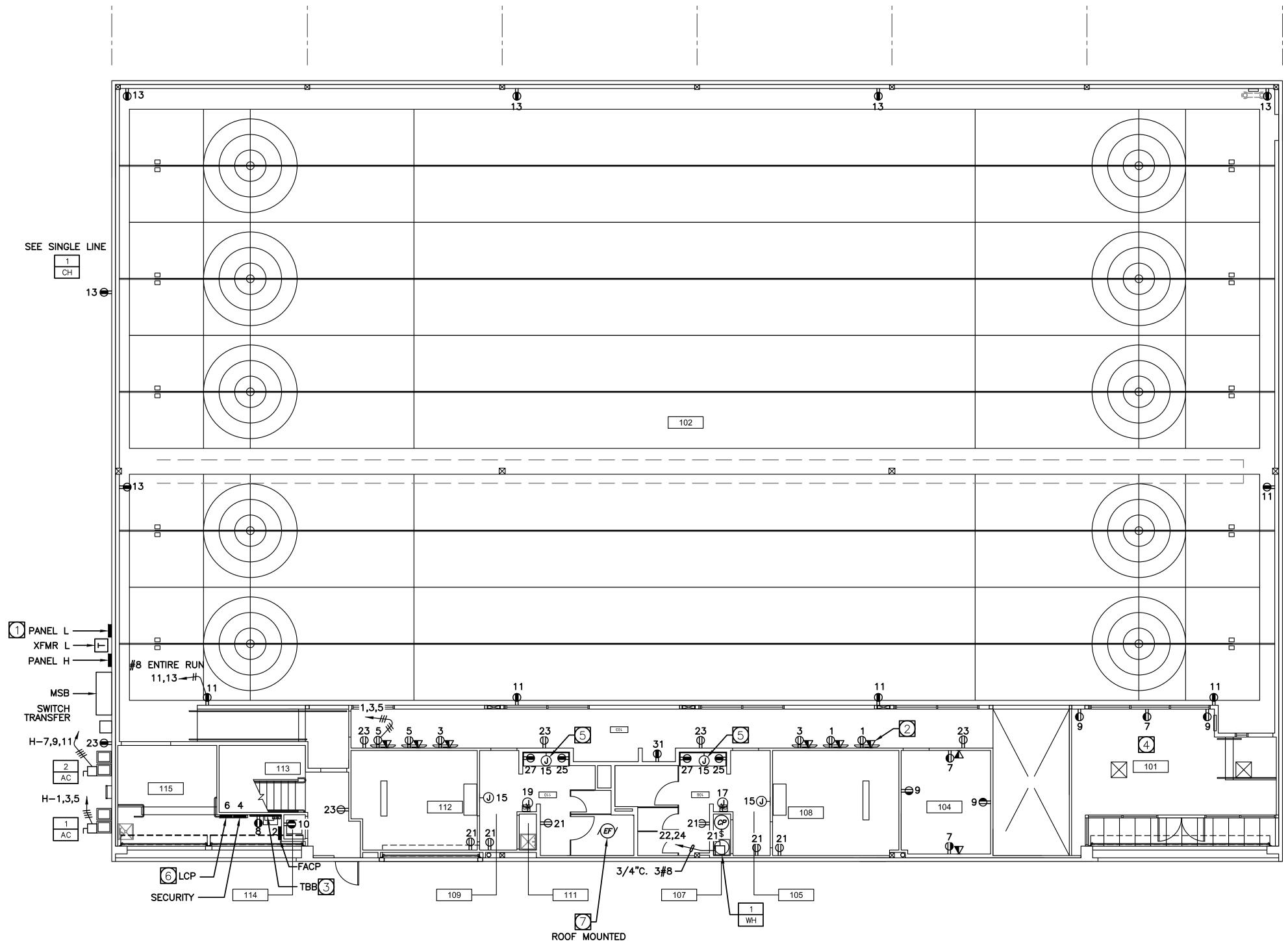


### POWER PLAN NOTES:

PROPOSED UTILITY TRANSFORMER LOCATION. THE UTILITY COORDINATION IS BY THE TENNENT.

- 2 ELECTRICAL GEAR LOCATION. SEE SHEET E1.1.
- PROVIDE 2" C.O. FOR FUTURE CAR CHARGERS. PROVIDE PULL BOX SIZED PER CEC REQUIREMENTS.
- EXISTING ELECTRICAL GATE. FIND EXISTING CONDUIT IN EXISTING BUILDING AND EXTEND TO NEW PANEL L CIRCUIT 32. EXISTING ELECTRICAL SIGN. FIND EXISTING CONDUIT IN EXISTING BUILDING AND EXTEND TO NEW PANEL H CIRCUIT 14. ROUTE THROUGH TIME CLOCK. SEE
- NOTE #6 E1.1. EXISTING ELECTRICAL OUTLET. FIND EXISTING CONDUIT IN EXISTING BUILDING AND EXTEND TO NEW PANEL L CIRCUIT 38.
- EXISTING ELECTRICAL BUILDING SIGN. FIND EXISTING CONDUIT IN EXISTING BUILDING AND EXTEND TO NEW PANEL H CIRCUIT 16. ROUTE THROUGH TIME CLOCK. SEE NOTE #6 E1.1.





POWER PLAN SCALE: 1/8"=1'-0"

### POWER PLAN NOTES:

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\_\_\_\_\_ - \_\_\_\_\_ ·

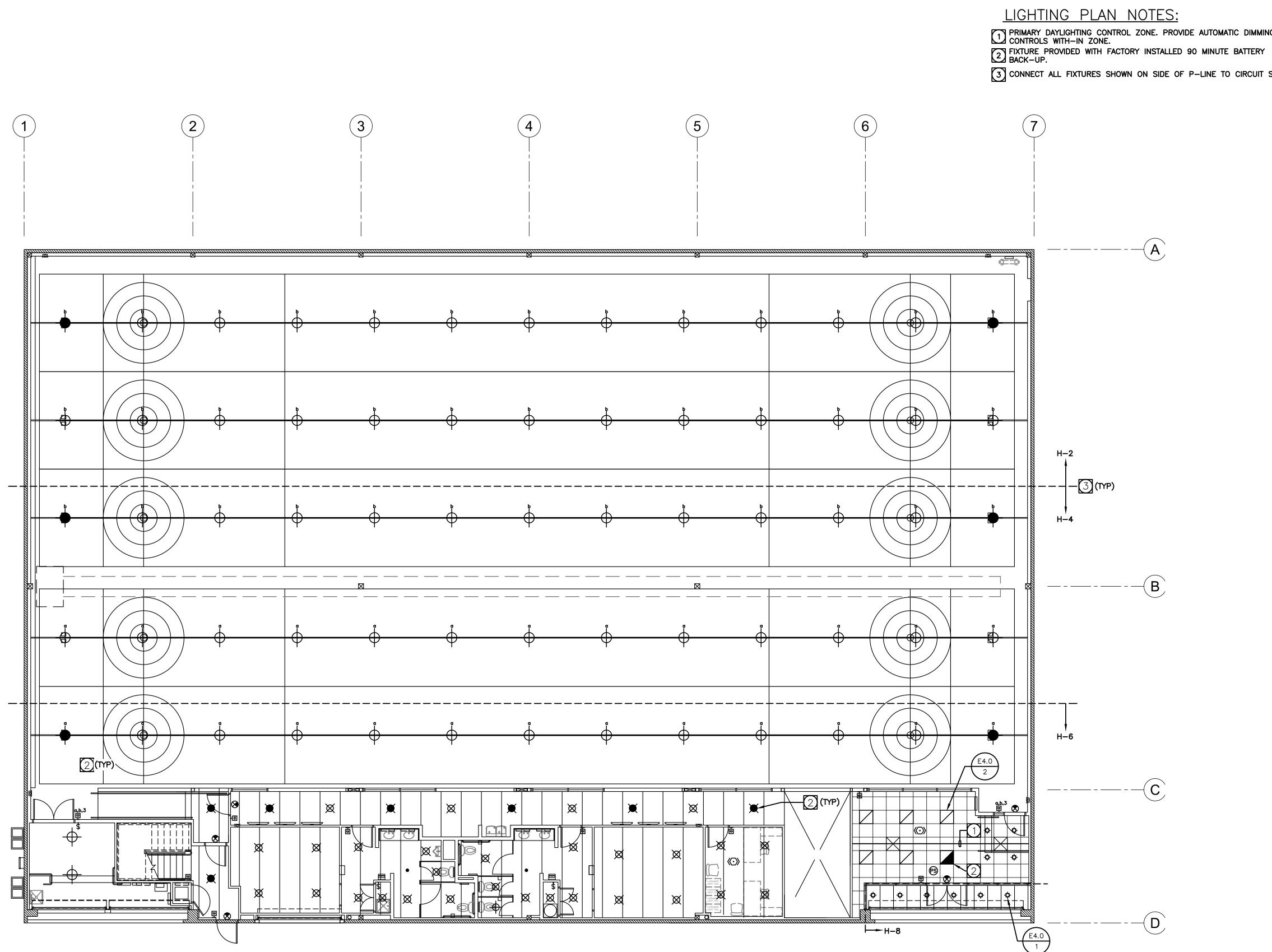
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\_\_\_\_

1 ALL CIRCUITS CONNECTED TO PANEL L EXCEPT AS NOTED.

- VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES FOR FLAT SCREES WITH ARCHITECT PRIOR TO ROUGH IN. PROVIDE METAL/PLYWOOD BACKING AND DOUBLE GANG DEEP BOXES AS REQUÍRED.
- TBB BY GC. COORDINATE WITH TENANT AND PROVIDE A C.O. TO EXISTING COMMUNICATIONS SERVICE. PROVIDE TELECOM GROUNDING BUS BAR. VERIFY MOUNTING LOCATION AND HEIGHT WITH TENANT.
- PROVIDE CONTROLLED RECEPTACLES PER TITLE 24 REQUIREMENTS. UTILIZE OCCUPANCY SENSOR FOR CONTROLS. SEE THE LIGHTING PLAN.
- 5 VERIFY WITH THE PLUMBING CONTRACTOR AND PROVIDE POWER SUPPLIES AS REQUIRED FOR BOTH THE FACET CONTROLLERS AND SOAP DISPENSERS.
- 6 PROVIDE AUTOMATIC TIME SWITCH CONTROLS FOR ALL INTERIOR LIGHTS. PROVIDE ASTRONIMICAL TIME SWITCH CONTROLS FOR ALL EXTERIOR LIGHTS.
- PROVIDE CONNECTION TO THE EXHAUST FAN. PER NEC 422.31(A) THE CIRCUIT BREAKER IS PERMITTED TO SERVE AS THE DISCONNECT SWITCH. CONNECT TO LIGHTING CONTROL SWITCH FOR POWER AND CONTROL.

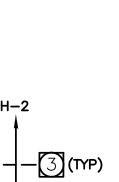




LIGHTING PLAN 1st scale: 1/8"=1'-0"

PRIMARY DAYLIGHTING CONTROL ZONE. PROVIDE AUTOMATIC DIMMING CONTROLS WITH-IN ZONE.

3 CONNECT ALL FIXTURES SHOWN ON SIDE OF P-LINE TO CIRCUIT SHOWN.



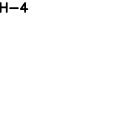
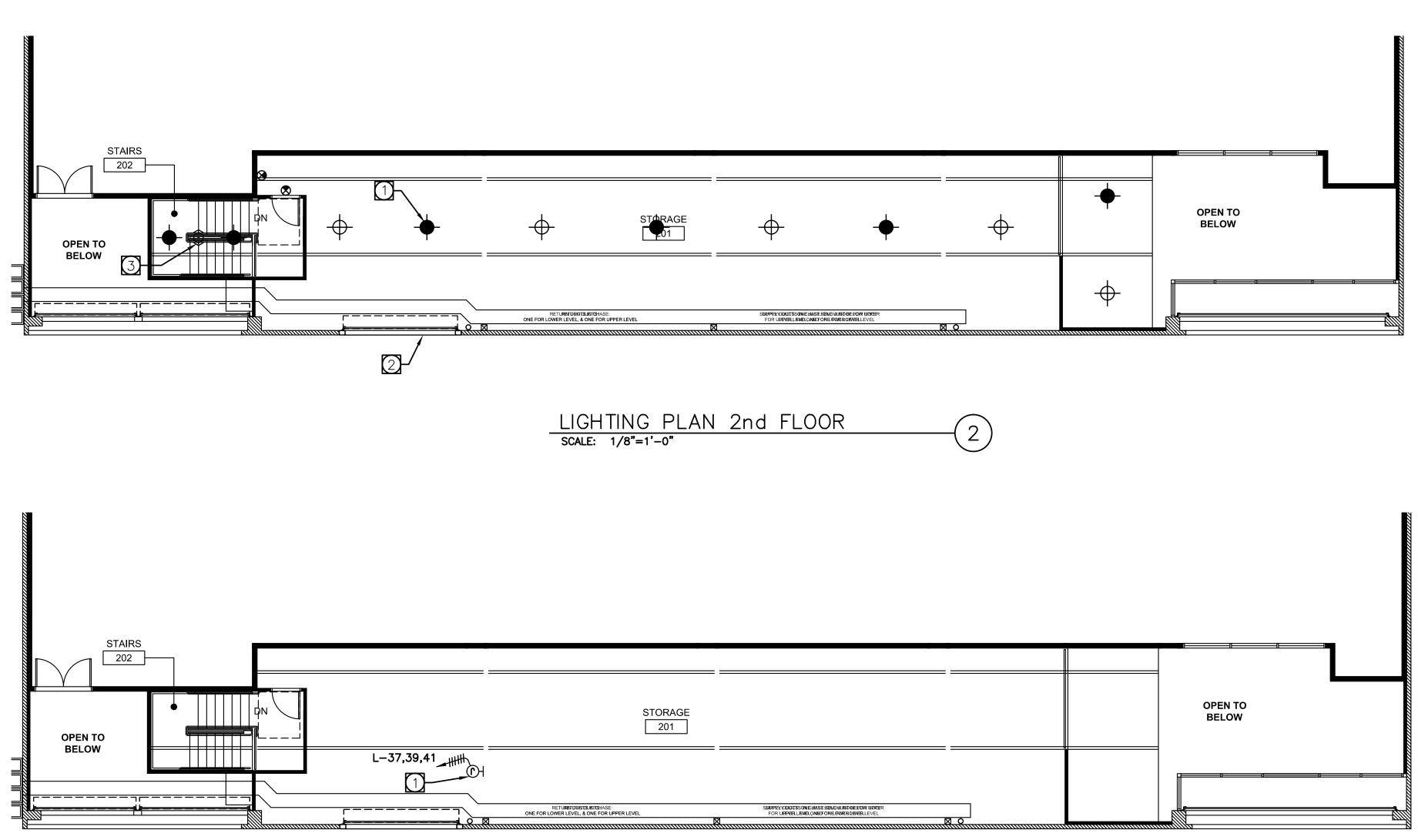


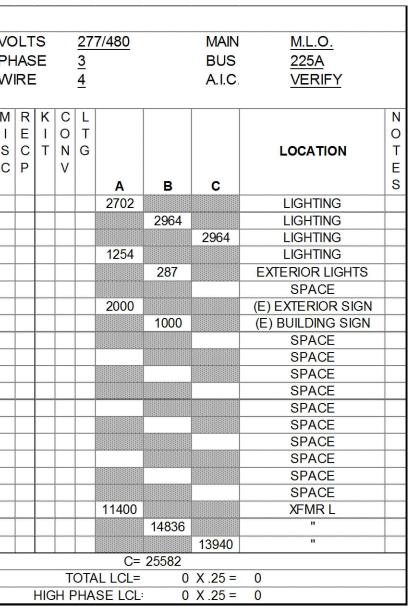
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LIGHTING PLAN 1st FLOOR	
DRAWING STATUS 100% CONSTRUCTION DOCUMENT SET NOT FOR CONSTRUCTION	
REVISIONS         Symbol       Description       By       Date	
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E2.

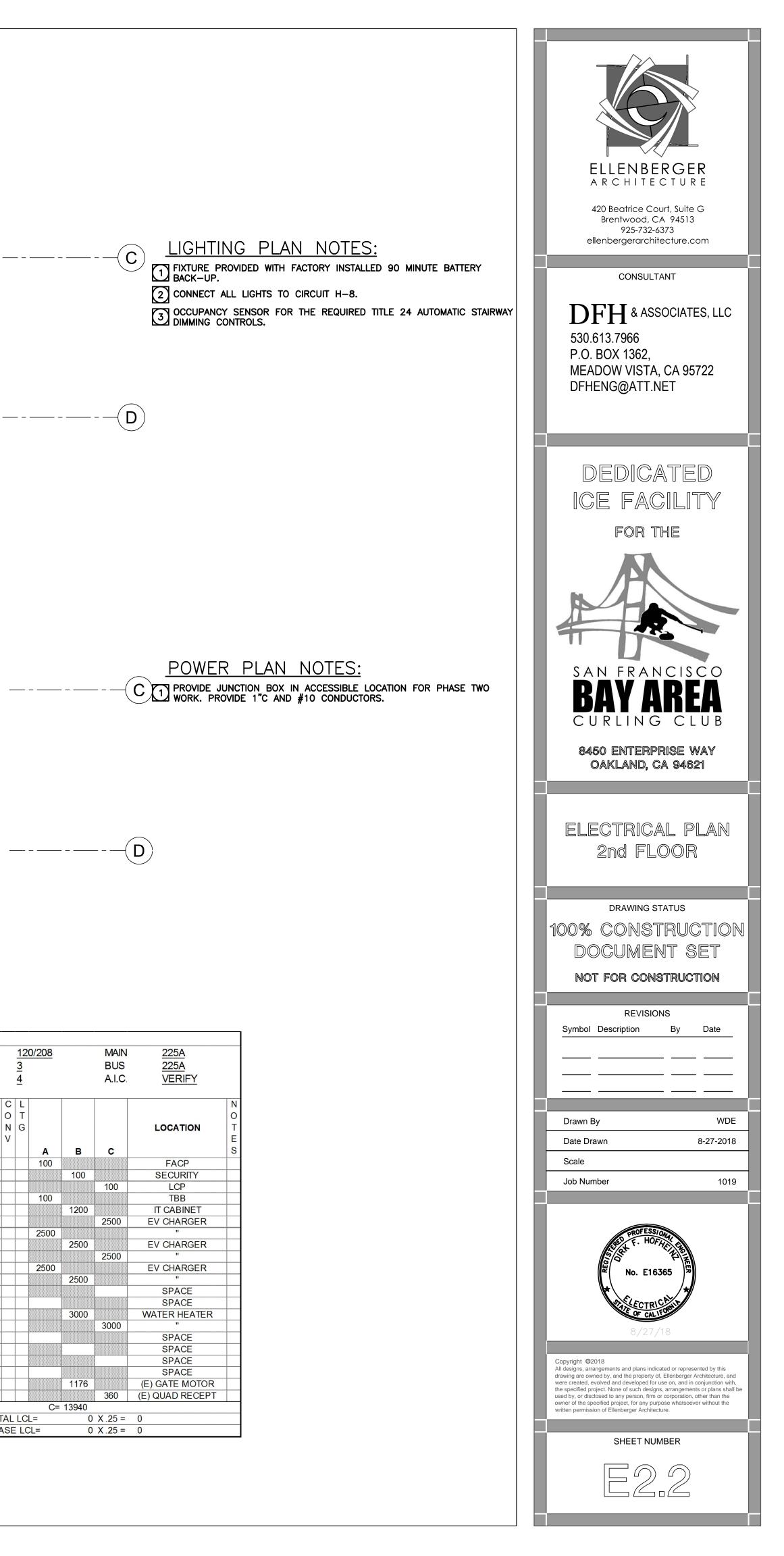


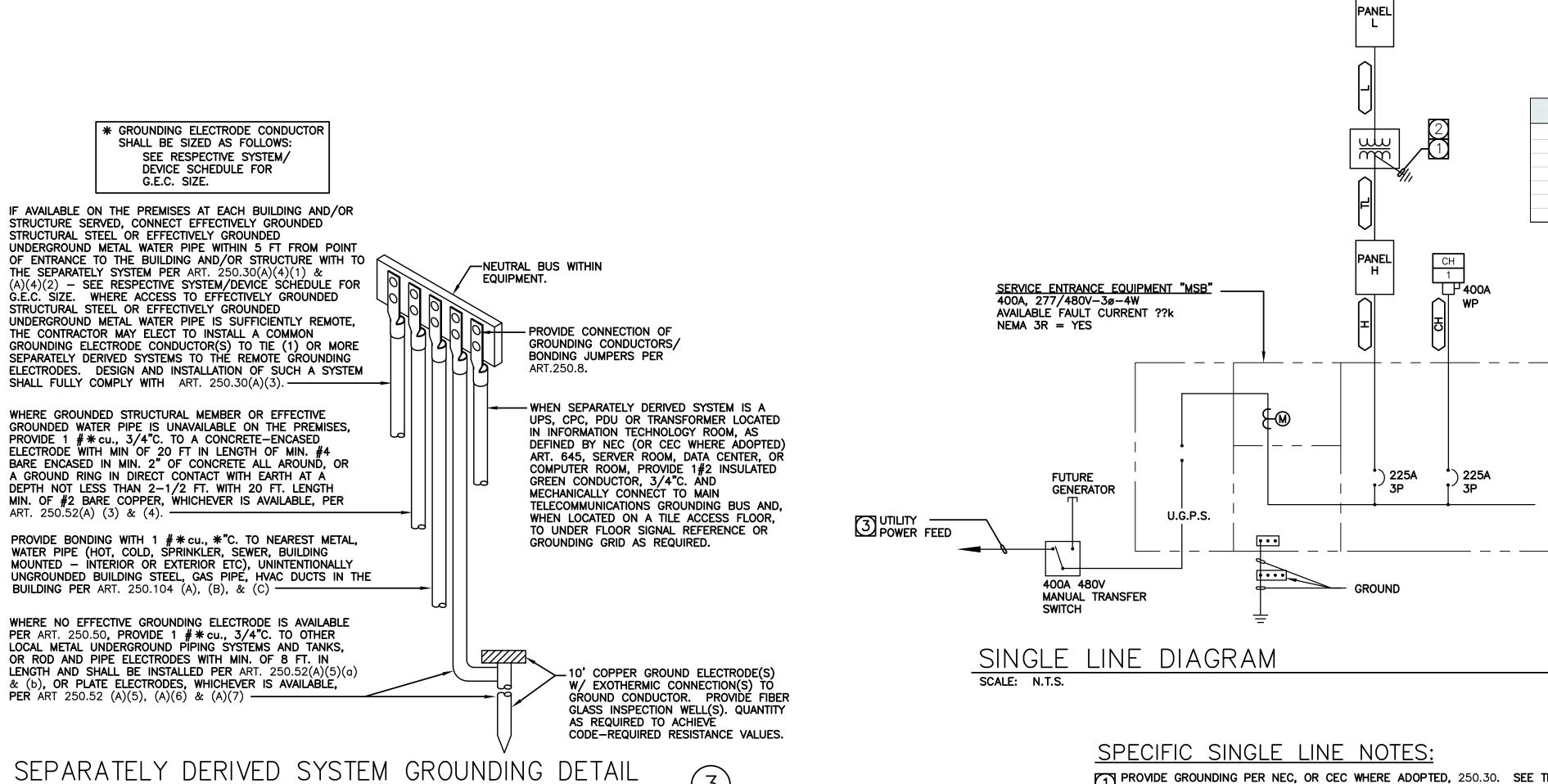
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******	MOUNTING	SURF	ACE			DC	DUE	BLE	ELL	JG	N	0			VC	)
	NEMA 3R	YES				20	0%	NE	UT	RAL	_	0			PH	ł
	FEED THRU	NO					BL					0			W	
		110										<u> </u>			••	
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Т	LOCATION				G	Ν	T	С	S	R	R		R	R	S	
E						V		Ρ	С		С		С		С	
S		Α	В	С		ļ						ļ		ļ	ļ	
	AC-1	2400				ļ				20/3	1		2	20/1		
	"		2400							"	3		4	20/1		
	"			2400						"	5		6	20/1		
	AC-2	2400								20/3	7		8	20/1		
	"		2400							"	9		10	20/1		
	"			2400						"	11		12			
	SPACE										13		14	20/1		
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	FUTURE ELEV. MTR			3878						20/3	23		24			
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	SPACE										39		40			
	SPACE										41		42			
		A=	26034								B=	2776	5			
	TOTAL VA=	79381	W/LCL=								/IPS=		6			
	HIGH PHASE VA=	27765	W/LCL=	27765			HIG	ΗP	HA	SE AN	/PS=	1	00.2			

### POWER PLAN 2nd FLOOR SCALE: 1/8"=1'-0"



											PAI	NEL	L								
	MOUNTING	SURF	ACE			DC	DUE	BLE	ELL	JG	N	0			VC	DLT	S		12	0/208	
	NEMA 3R	YES				20	0%	NE	UT	RAL	N	0			PH	HAS	Ε		3		
	FEED THRU	NO				I/G	BL	JS			N	0			W	IRE			<u>3</u> 4		
		<u></u>									<u></u>						-		-		
N			1		L	С	K	R	M	В	С		С	B	M	R	K	C	L		T
0					Т	0	1	E	1	к	1		I	K	I	Е	I	0	Т		
Т	LOCATION				G	Ν	Т	С	S	R	R		R	R	S	С	Т	N	G		
Е						V		Ρ	С		С		С		С	Ρ		V			
S		Α	в	С																Α	
	FLAT SCREEN	800							2	20/1	1		2	20/1	1					100	
	FLAT SCREEN		800					1	2	20/1	3		4	20/1	1	1	1				
	FLAT SCREEN			800					2	20/1	5		6	20/1	1						
•••••••••••	OFFICE RECEPTS	540				3		1		20/1	7		8	20/1	1		1	1		100	
	RECEPTS		720			4				20/1	9		10	20/1	1		İ				
	RECEPTS			900		5				20/1	11		12	30/2	1						Ì
	RECEPTS	1080				6				20/1	13		14		1		1			2500	
	HAND, SOAP, WATER DISP		300						1	20/1	15		16	30/2	1						
	HAND DRYER			1600				1	1	20/1	17		18	"	1		1				
	HAND DRYER	1600							1	20/1	19		20	30/2	1					2500	
	RECEPTS		1080			6				20/1	21		22	"	1						
	RECEPTS			1080		6				20/1	23		24								
	RECEPTS	360				2				20/1	25		26								
	RECEPTS		360			2				20/1	27		28	35/2	1						
	SPACE										29		30	"	1						
	FOUNTAIN	820								20/1	31		32								
	FUTURE ELEV. LTS		100							20/1	33		34								
	FUTURE ELEV. CONTR.			100						20/1	35		36								
	FUTURE WARM RM	1000								20/1	37		38								
	FUTURE WARM RM		1000							20/1	39		40	20/1	1						
	FUTURE WARM RM			1000						20/1	41		42	20/1	1						
			11400								B=	1483	6							C=	1
	TOTAL VA=	40176	W/LCL=								/IPS=		12						LC		
	HIGH PHASE VA=	14836	W/LCL=	14836			HIG	ΗP	HA	SE AN	/IPS=	1	24		HIC	GH	PH/	ASE	E LC	L=	





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WGT.

REMARKS

TRANSFORMER SCHEDULE

ſ	NAME	KVA	WINDING	IN	PUT	-	OUTF	TUS		MIN	A.I.C.	к	GEC	REDUCED SOUND	NEMA/	DIM	ENSI	SNC	,
			MATERIAL	V	Ρ	W	V	Ρ	W	<b>%</b> Z	VALUE	VAL.	SIZE	LEVEL	MNTG.	Η	W	D	
	L	75	COPPER	480	3	3	120/208	3	4	5.0	4131	Ι	3/4"C, #2	N	1/F	30	30	20	

SCALE: NTS

### TRANSFORMER INSTALLATION REQUIREMENTS:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
- 2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT / SYSTEM.
- 3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS / WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURERS INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY -UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
- 4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION / REQUIREMENTS ON THIS PRODUCT / SYSTEM.

PROVIDE GROUNDING PER NEC, OR CEC WHERE ADOPTED, 250.30. SEE TRANSFORMER SCHEDULE FOR GEC SIZING INFORMATION. SEE SEPARATELY DERIVED SYSTEM GROUNDING DETAIL FOR MORE INFORMATION.

2 SEE TRANSFORMER SCHEDULE FOR MORE INFORMATION.

SAN FRANCISCO BAY AREA CURLING CLUB IS PROVIDING THE UTILITY COORDINATION. VERIFY THE AIC AVALABLE AT THE MAIN SWITCHGEAR WITH THEIR REPRESENTATIVE.

FEEDER	CONDUIT AND CONDUCTORS	LOAD	DISTANCE	V.D. (%)	A.I.C.	NOTES
н	(N) 2-1/2"C. 4#4/0 & 1#4G.	(225)	10	0.08	verify	
СН	(N) 2-1/2"C. 4#4/0 & 1#4G.	(173.2)	60	0.21	verify	_
п	(N) 1-1/2"C. 3#1 & 1#6G.	(100)	10	0.12	verify	
L	(N) 2-1/2"C. 4#4/0 & 1#4G.	(225)	10	0.09	verify	_

## GENERAL FEEDER SCHEDULE NOTES:

- 1. ALL FEEDERS SHOWN, UNLESS SPECIFICALLY NOTED OTHERWISE, ARE PRESUMED TO BE ROUTED IN METAL RACEWAYS. IF P.V.C. CONDUITS ARE UTILIZED, THE CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND PER NEC, OR CEC WHERE ADOPTED, TABLE 250.122 OR, WHERE REQUIRED, PROVIDE A MAIN BONDING JUMPER PER TABLE 250.66 AND INCREASE THE CONDUIT SIZE ACCORDINGLY.
- 2. LOADS INDICATED WITH " ( ) " REPRESENT WORST CASE LOAD IN AMPS.
- 3. DISTANCE SHOWN IS FOR DESIGN PURPOSES ONLY. IT IS NOT A MATERIAL TAKEOFF.
- 4. VOLTAGE DROP VALUE INDICATED IS AT THE END OF THE FEEDER.
- 5. AVAILABLE FAULT CURRENT VALUE AT THE END OF THE FEEDER INDICATED. CALCULATIONS ARE BASED UPON INITIAL VALUES RECEIVED FROM THE SERVING UTILITY AND THE LENGTH AND IMPEDANCE OF THE FEEDER.

F | 30 | 30 | 20 | 673 | -

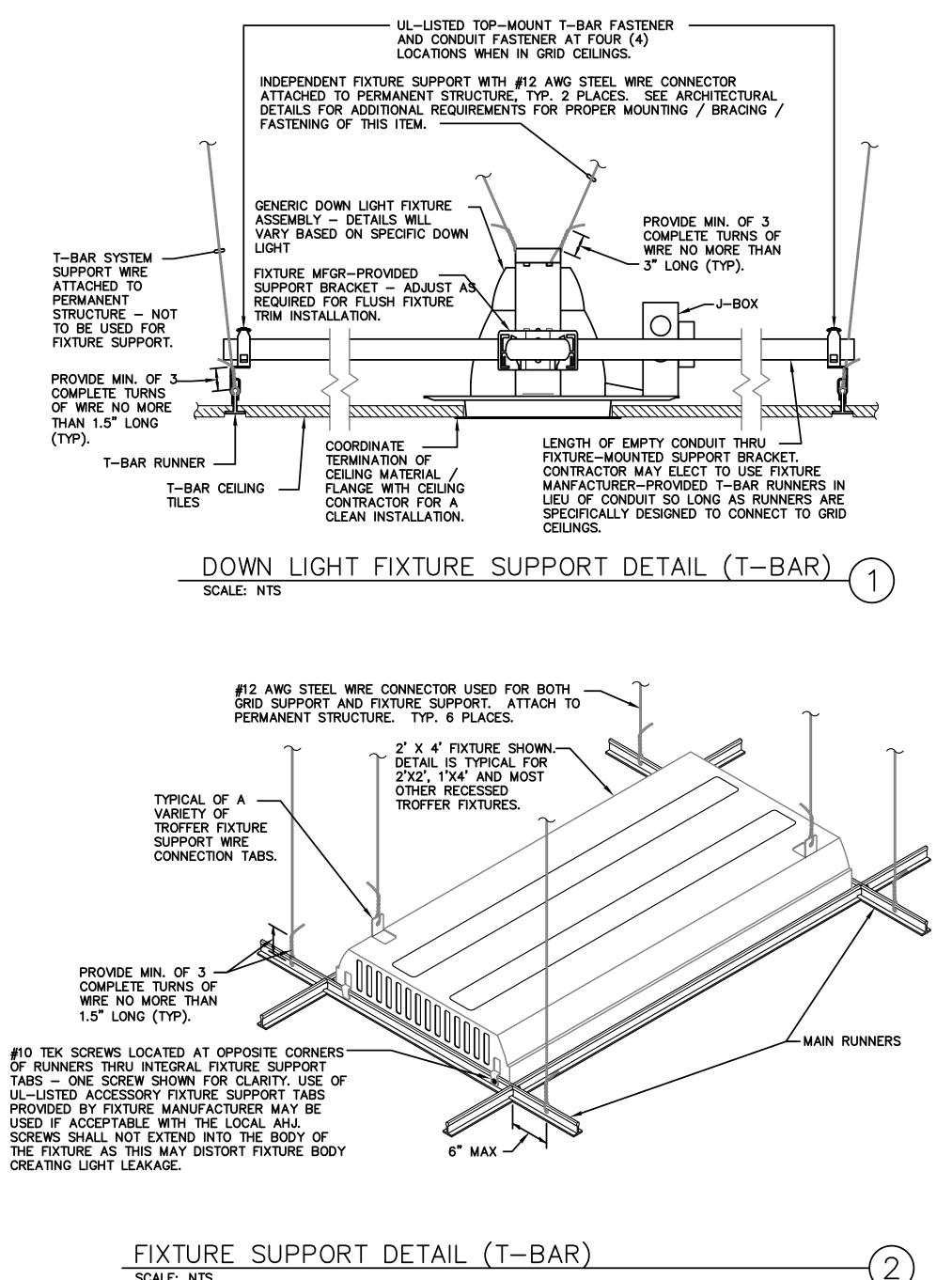
### Load Calculation Panels MSB

Panel H		100.2	Α	
Chiller		173.2	Α	
Total		273.4	A	

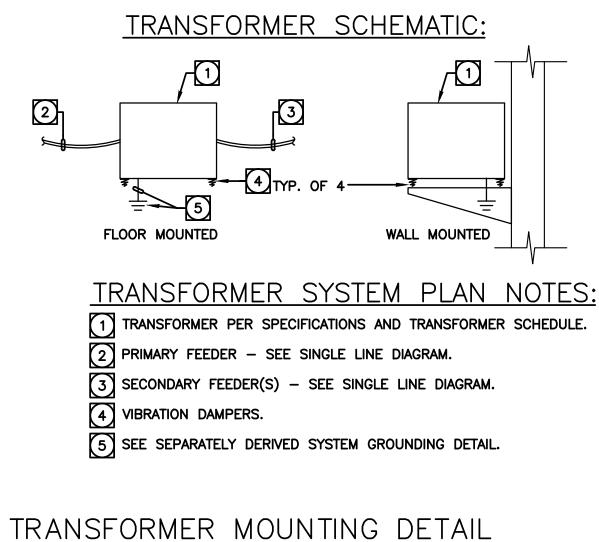


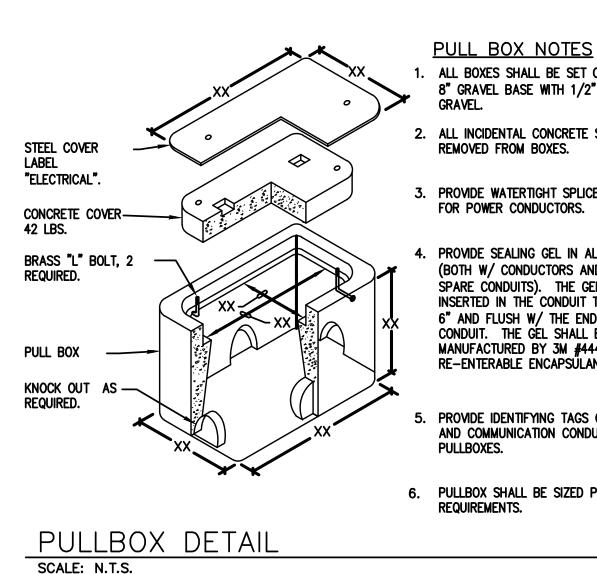
FEEDER SCHEDULE TRASED UPON 65K O THE PG&E





SCALE: NTS





SCALE: N.T.S.

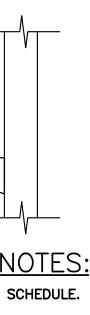
8" GRAVEL BASE WITH 1/2" DIAMETER 2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.

3. PROVIDE WATERTIGHT SPLICES AND CAPS FOR POWER CONDUCTORS.

4. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS). THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY 3M #4442 RE-ENTERABLE ENCAPSULANT.

5. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.

6. PULLBOX SHALL BE SIZED PER N.E.C. REQUIREMENTS.



4

1. ALL BOXES SHALL BE SET ON A MINIMUM

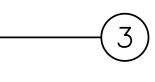


Image: Constraint of the second state of the second sta	G E
CONSULTANT <b>DFH</b> & ASSOCIATI 530.613.7966 P.O. BOX 1362, MEADOW VISTA, CA 95 DFHENG@ATT.NET	
<text></text>	
DETAILS	
DETAILS DRAWING STATUS 100% CONSTRUC DOCUMENT S NOT FOR CONSTRUC	)et
drawing status 100% CONSTRUC DOCUMENT S	)et
DRAWING STATUS 100% CONSTRUC DOCUMENT S NOT FOR CONSTRUC REVISIONS	SET TION
DRAWING STATUS 100% CONSTRUC DOCUMENT S NOT FOR CONSTRUC	Date Date Date NUDE 8-27-2018 Date Date Date

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 9/17)							CALIFORNIA ENE		STATE OF CALIFO Indoor Li NRCC-LTI-E (Cre	ghting							CALIF	DRNIA ENERGY CON	
CERTIFICATE OF COMPLIANCE							,	NRCC-LTI-E	CERTIFICATE										NRCC-LTI
This document is used to demo Project Name: Curling Club	instrate compliance with req	uirements in <u>911</u>	<u>0.9, 9130.0</u> , <u>913</u>	Report P		ndoor lighting sco	bes using the p	Page 1 of 6	Project Name Project Addre		Club				Report Page: Date Prepare	d:			Page 2 of 8/16/201
Project Address:				Date Pre	epared:			8/16/2018											
A. GENERAL INFORMATION	l							2	D. EXCEPTI			ents because of select	ions made or dat	a entered in to	bles throughou	it the form.			
01 Project Location (city)		Marina		04 Total Conditio			3,	,578		-		-				it the joint.			
02 Climate Zone	Due is at (as least all that a way	3		05 Total Uncond				0			is apply to this projec								
03 Occupancy Types Within	Retail	): Warehou		06 # of Stories (H				2 port Areas	E. ADDITIO	NAL REMA	RKS								<u></u>
Parking Garage	High-Rise Residential			<ul><li>✓ Other (write</li></ul>								nit applicant to the Au	thority Having Ju	risdiction.					<b></b>
B. PROJECT SCOPE								2											
Table Instructions: Include any <u>§140.6</u> or <u>§141.0(b)2</u> for altered																			
calculation method, please op				uble will result in a		uutu previousiy ini	out. Ij you nee	eu to chunge the											
Sc	cope of Work			nditioned Spaces			Jnconditioned		01	ctions: includ	02	igned lighting and all µ 03	ortable lighting	04	05	06	07	08	09
My Project Consi	01 ists of (check all that apply):		02 Calculation		03 Area (ft <sup>2</sup> )		04 ion Method	05 Area (ft <sup>2</sup> )	Name or	Complete I.		Specialized Lumi	naire Types V		w Wattage is	Total number	r Exempt per		Field Inspector
New Lighting System			Area Cat		3,578		Category	0	Item Tag	-	uminaire Description	Track	Portable lu		letermined	luminaires	<u>§140.6(a)3</u>		Pass Fail
	1		Add Parking Ga	arage-Complete B	Bidg Method	R	emove Parkin	ng Garage	A		ype A LED				Mfr. Spec <sup>1</sup>	6		201.6	
Altered Lighting System				torod Lighting C	tom		nove Last Alte	ared System	B C		Type B 16" " round				Mfr. Spec <sup>1</sup> Mfr. Spec <sup>1</sup>	2		90 228	
<u> </u>	Total Area	of Work (ft <sup>2</sup> )		tered Lighting Sys <b>3,578</b>		Ker	nove Last Alte 0	areu System	D	1	3 " round			20	Mfr. Spec <sup>1</sup>	39		780	
C. COMPLIANCE RESULTS		• 1						<b>1</b>	F	2' v	wall bracket				Mfr. Spec <sup>1</sup>	6		126	
Table Instructions: If any cell o	on this table says "DOES NOT	COMPLY" or "CC	OMPLIES with Ex	ceptional Conditio	ons" refer to Tal	ble D. for guidance	2.								ι οται Designed	watts CONDI	ITIONED SPACES: Reset	1,425.6 Add Row	Remove Last
Lighting in	Allowed Lighting Power po	er <u>§140.6(b) (</u> Wat	tts)		l Lighting Powe	er per <u>§140.6(a) (</u> V	Vatts)	Compliance Results	<sup>1</sup> NOTES: Aut	hority Having	g Jurisdiction may ask	k for Luminaire cut she	ets to confirm w	attage used fo	r compliance p	er <u>§130.0(c)</u> V			
Lighting in 01	02 03	04	05	06	07	08	09	10	luminaire, no										
unconditioned	Area Area Area Category	Tailored	_	_ Total	Adjust Portable		Total Actual		G. TRACK L	IGHTING									
<i>spaces must not</i> <i>be combined for</i> Building	Category Footnotes		= Total Allowed	Designed	Lighting	Credits =	(Watts)	05Mustbe≥09	This Section	Does Not Ap	ply								
compliance per <u>§140.6(c)1</u> §140.6(b)1.	<u>§140.6(c)2</u> <u>§140.6(c)2</u> (+)	<u>-</u> (+)	(Watts)	(Watts)	<u>§140.6(a)</u> (-)	<u>§140.6(a)2</u> (-)	*Includes Adjustments	<u>§140.6</u>											
	) (See Table I) (See Table	<) (See Table L)		(See Table F)	(See Table J)				H. INDOOR Table Instruc		CONTROLS (Not Ind	cluding PAFs)	Building Lev	el Controls					
Conditioned:	2,342.9		= 2,342.9	≥ 1,425.6		=	1,425.6	COMPLIES				ed and unconditioned		01			02		03
Unconditioned:			=	≥   Controls Complia	nce (See Table )	= H for Details)		OMPLIES				* is selected, the note lighting controls sectio		atory Deman			Shut-off Controls		Field Inspector
				eduction Complia				Applicable			ary Table on the first are left blank.	t page will show "DOE.		<u>§130.1(e</u> t Required ≤ 1		W/bolo P	<u>§130.1(c)</u> Building: Automatic <sup>-</sup>		Pass Fail
					-				NOTCOMPL	.Y If the note	es are lejt blank.			t Required S 1	0,000 SF	whole b	building: Automatic		
CA Building Energy Efficiency Stan	ndards - 2016 Nonresidential Co	mpliance: http://w	/ww.energy.ca.gov	v/title24/2016stand	lards			September 2017	CA Building Er	nergy Efficienc	y Standards - 2016 Non	nresidential Compliance:	http://www.ener	gy.ca.gov/title24	/2016standards				September 201
STATE OF CALIFORNIA									state of calif Indoor Li										
NRCC-LTI-E (Created 9/17)							CALIFORNIA ENE		NRCC-LTI-E (Cre	eated 9/17)							CALIF	ORNIA ENERGY CON	
CERTIFICATE OF COMPLIANCE Project Name: Curling Club				Report P	Page:			NRCC-LTI-E Page 4 of 6	CERTIFICATE Project Name						Report Page:				NRCC-LTI Page 5 of
Project Address:				Date Pre	0			8/16/2018	Project Addre						Date Prepare	d:			8/16/201
M. ADDITIONAL LIGHTING	ALLOWANCE: TAILORED	SPECIAL FUNCT	ION ARFAS					<b>7</b>	T. DECLARA	TION OF RE		ATES OF INSTALLATI	ON						2
This Section Does Not Apply									Table Instruc	ctions: Selecti	ions have been made	e based on information	provided in prev					ed, please explo	lain why in
												s must be provided to 00-2015-033/appendi		ector during co	onstruction and	can be found	online at <u>http://</u>		
<b>N. ADDITIONAL LIGHTING</b> A This Section Does Not Apply	ALLOWANCE: TAILORED	VALL DISPLAY								_									
									YES	NO				Form/Title				Fiel Pass	ld Inspector
O. ADDITIONAL LIGHTING	ALLOWANCE: TAILORED	LOOR AND TAS	SK LIGHTING					2	۲	0	NRCI-LTI-01-E - Must	t be submitted for all k	ouildings						
This Section Does Not Apply										$\sim$		t be submitted for a lig		tem, or for an	Energy Manage	ement Control	l System (EMCS), to	be l	
P. ADDITIONAL LIGHTING A	ALLOWANCE: TAILORED C	RNAMENTAL/S		TS				2	۲		recognized for compl			,					
This Section Does Not Apply									0			t be submitted for a lin					plementary overcurr	ent	
												ed to energize only line		-	-	•	enter a conference		
<b>Q. ADDITIONAL LIGHTING</b> <i>This Section Does Not Apply</i>	ALLOWANCE: TAILORED	CKT VALUABLE		DE					0			se room, or a theater t							
									0	۲	NRCI-LTI-05-E - Must	t be submitted for a Po	ower Adjustment	Factor (PAF) t	o be recognized	d for complian	nce.		
R. POWER ADJUSTMENT: L	IGHTING CONTROL CRED	IT (PAF)						2				t be submitted for add	-						
This Section Does Not Apply											compliance.		-						
S. RATED POWER REDUCTI	ON COMPLIANCE BY SPA	CE						2				ATEC OF ACCEPTAN	~						
This Section Does Not Apply												ATES OF ACCEPTAN e based on informatio		vious tables o	this document	. If any selecti	ion needs to be char	aed. please exi	plain why in
									Table E. Add	litional Rema	rks. These document	ts must be provided to	the building ins	pector during o	onstruction and	d must be con			
									Certification	Provider (AT	ICP). For more inform	mation visit: <u>http://w</u>	ww.energy.ca.go	v/title24/attcp	/providers.htm	<u>l</u>			
									YES	NO				Form/Title					ld Inspector
										-								Pass	s Fail
									۲			st be submitted for oc			time switch co	ntrols.			
									۲	0	NRCA-LTI-03-A - Mus	st be submitted for au	tomatic daylight	controls.					
									0	۲	NRCA-LTI-04-A - Mus	st be submitted for de	mand responsive	lighting contr	ols.				
									0	۲	NRCA-LTI-05-A - Mus	st be submitted for ins	titutional tuning	power adjustr	nent factor (PA	F).			
										$\sim$			0						
CA Building Energy Efficiency Stan	ndards - 2016 Nonresidential Co	mpliance: http://w	/ww.energy.ca.gov	v/title24/2016stand	lards			September 2017	CA Building Er	nergy Efficienc	y Standards - 2016 Non	nresidential Compliance:	http://www.energ	gy.ca.gov/title24	/2016standards				September 201

le Instr	uctions: Include all permanent design	ed lighting and a	ill portable lighti	ng in offices.						
01	02	0	3	04	05	06	07	08	09	9
me or	Complete Luminaire Description	Specialized Lu	minaire Types	Watts per	How Wattage is	Total number	Exempt per	Design Watts	Field Ins	spector
m Tag	complete cuminaire Description	Track	Portable	luminaire <sup>1</sup>	determined	luminaires	<u>§140.6(a)3</u>	Design Watts	Pass	Fail
А	Type A LED			33.6	Mfr. Spec <sup>1</sup>	6		201.6		
В	Туре В 16"			22.5	Mfr. Spec <sup>1</sup>	4		90		
С	x 8" round			114	Mfr. Spec <sup>1</sup>	2		228		
D	13 " round			20	Mfr. Spec <sup>1</sup>	39		780		
F	2' wall bracket			21	Mfr. Spec <sup>1</sup>	6		126		
					Total Designed	Watts CONDIT	ONED SPACES:	1.425.6		

TES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> Wattage used mu	ust be the maximum rated
naire, not the lamp.	

<b>FRACK LIGHTING</b>				?
s Section Does Not Apply				
NDOOR LIGHTING CONTROLS (Not Including PAFs)				?
le Instructions:	Building Level Controls			
ase include lighting controls for conditioned and unconditioned	01	02	0	3
ces in this table. When an option having a * is selected, the notes ion of this table must be completed. The lighting controls section	Mandatory Demand Response	Shut-off Controls	Field Ins	spector
he Compliance Summary Table on the first page will show "DOES	<u>§130.1(e)</u>	<u>§130.1(c)</u>	Pass	Fail
T COMPLY" if the notes are left blank.	Not Required ≤ 10,000 SF	Whole Building: Automatic Time Switch		
	1	1		
Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http:	o://www.energy.ca.gov/title24/2016standards		Septemb	ber 2017

	OF COMPL			NRCC-LT
t Name t Addre		ng Club Report Page:		Page 5 o
t Addre	ess:	Date Prepared:		8/16/20
CLARA	TION OF	REQUIRED CERTIFICATES OF INSTALLATION		<u> </u>
E. Addi	itional Ren	ctions have been made based on information provided in previous tables of this document. If any selection needs to be changed, ple narks. These documents must be provided to the building inspector during construction and can be found online at <u>http://</u> 015publications/CEC-400-2015-033/appendices/forms/NRCI	ase explain	why in
s	NO	Form/Title	Field In	spector
			Pass	Fail
•	0	NRCI-LTI-01-E - Must be submitted for all buildings		
	0	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.		
)	۲	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.		
)	۲	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.		
)	۲	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.		
>	۲	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.		
CLARA	ATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE		(
. Add	itional Ren	ctions have been made based on information provided in previous tables of this document. If any selection needs to be changed, p narks. These documents must be provided to the building inspector during construction and must be completed through an Accept ATTCP). For more information visit: <u>http://www.energy.ca.gov/title24/attcp/providers.html</u>		
s	NO	Form/Title	Field In	sportor
	NO	ronny nue	Pass	Fail
,	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
,	0	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		
>	•	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		
	۲	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).		

door Lighting		
RTIFICATE OF COMPL	IANCE	
oject Name: Curlin	g Club	
oject Address:		
rea Level Controls		
04		05
Area Description		Building or Area Cate nary Function Area
Office		
NOTES: Controls with	a * require a	a note in the space b
K: Conference 1: Prime KCEPTION 1 to <u>§130.1</u>		Daylighting: Exempt
LIGHTING POWER		
able Instructions: Com		
lowances per <u>§140.6(</u>	<u>c)</u> or aajustri	
01		
Area Descript	ion	Complete Buildi
		Primary F
Office		Office (> 2
Utility		Elec, Mec
Corridor, RR, Su	oport	Corridor, Rest
Lobby		Main E
<b>POWER ADJUSTM</b> his Section Does Not A	Apply	
. ADDITIONAL LIGH	TING ALLO	WANCE: AREA CAT
his Section Does Not A	Apply	
TAILORED METHO	D GENERAL	LIGHTING POWER
his Section Does Not A	Apply	
A Building Energy Efficie	ncy Standards	- 2016 Nonresidential
ATE OF CALIFORNIA		
door Lighting		
CC-LTI-E (Created 9/17)		
RTIFICATE OF COMPL	IANCE	
oject Name: Curlin		
oject Address:	-	
OCUMENTATION A	UTHOR'S D	ECLARATION STAT

Address: City/State/Zip: , <b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b> I certify the following under penalty of perjury, under th 1. The information provided on this Certificate of Comp 2. I am eligible under Division 3 of the Business and Pro Compliance (responsible designer) 3. The energy features and performance specifications, Certificate of Compliance conform to the requirement 4. The building design features or system design features compliance documents, worksheets, calculations, pla 5. I will ensure that a completed signed copy of this Cer- to the enforcement agency for all applicable inspection documentation the builder provides to the building of Responsible Designer Name: Dirk F	Documentation Author Name:	
City/State/Zip: , RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under th 1. The information provided on this Certificate of Comp 2. I am eligible under Division 3 of the Business and Pro Compliance (responsible designer) 3. The energy features and performance specifications, Certificate of Compliance conform to the requirement 4. The building design features or system design features compliance documents, worksheets, calculations, pla 5. I will ensure that a completed signed copy of this Cer- to the enforcement agency for all applicable inspection documentation the builder provides to the building of Responsible Designer Name: Dirk F	Company:	DFHENG LLC
<ul> <li>RESPONSIBLE PERSON'S DECLARATION STATEMENT</li> <li>I certify the following under penalty of perjury, under th</li> <li>1. The information provided on this Certificate of Comp</li> <li>2. I am eligible under Division 3 of the Business and Pro Compliance (responsible designer)</li> <li>3. The energy features and performance specifications, Certificate of Compliance conform to the requiremen</li> <li>4. The building design features or system design features compliance documents, worksheets, calculations, pla</li> <li>5. I will ensure that a completed signed copy of this Cert to the enforcement agency for all applicable inspection documentation the builder provides to the building of Responsible Designer Name:</li> </ul>	Address:	
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Area Level Controls					Report Page		CALIF		NRCC-LTI-E Page 3 of 6
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04 Area Description	05 Complete Building or Are Primary Function A		06 Area Controls <u>§130.1(a)</u>	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Skylit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)1	12 Field Inspector Pass Fail
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