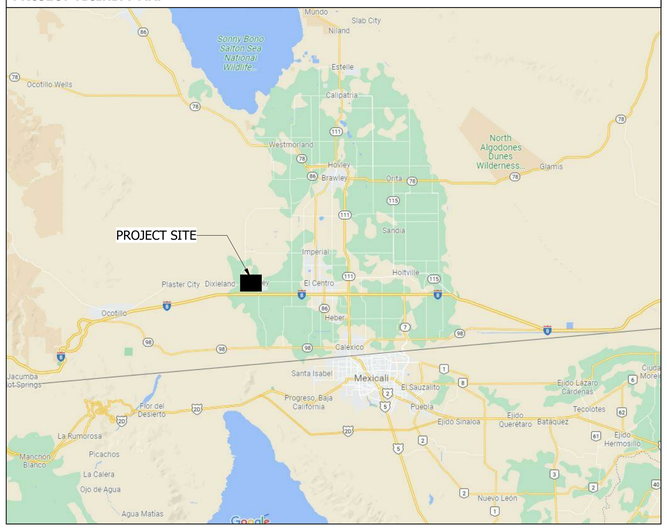
SEELEY FIRE STATION & COOLING CENTER

COUNTY OF IMPERIAL

EVAN HEWES HIGHWAY
SEELEY, CALIFORNIA

PROJECT VICINITY MAP



I. CODE ANALYSIS

A. PROJECT NAME
SEELEY FIRE STATION & COOLING CENTER

B. SITE DESCRIPTION
THE SITE IS LOCATED NEAR OF THE INTERSECTION OF W EVAN HEWES HWY & MOUNT SIGNAL AVE IN THE TOWN OF SEELEY, CALIFORNIA. SEELEY IS LOCATED IN IMPERIAL COUNTY.

C. PROJECT USE/DESCRIPTION
THE PROPOSED PROJECT CONSISTS OF GROUND UP CONSTRUCTION OF A 4,735 S.F., ONE STORY PRE-ENGINEERED METAL BUILDING FOR COUNTY FIRE DEPARTMENT. THE USES WILL COMPRISE OF GROUP B BUSINESS SPACE WHERE THE OWNER'S SPECIFIC USE WILL BE OFFICE, PROFESSIONAL OR SERVICE-TYPE TRANSACTIONS - INCLUDING STORAGE OF RECORDS AND ACCOUNTS; GROUP R-3 RESIDENTIAL WHERE CONGREGATE LIVING FACILITIES (TRANSIENT) WITH 10 OR FEWER OCCUPANTS; GROUP A-3 ASSEMBLY SPACE FOR COOLING OFF INDIVIDUALS FROM THE CALIFORNIA HEAT; AND GROUP S-2 APPARATUS ROOM FOR FIRE TRUCK STORAGE.

D. APPLICABLE CODES
TITLE 24, 2019 CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA ENERGY CODE, AND CALIFORNIA BUILDING CODE: CHAPTER 11B - ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMMODATIONS, COMMERCIAL BUILDINGS AND PUBLIC HOUSING

E. OCCUPANCY CALCULATIONS
BUILDING 01 B: 1,333 S.F. (LIMITATIONS: **150**,000 S.F.; **6** STORIES, **85**' HEIGHT)
1,333/150 = 9 OCCUPANTS PER TABLE 1004.5

R-3: 754 S.F. (LIMITATIONS: UNLIMITED S.F.; 5 STORIES, **65**' HEIGHT)
754/200 = 4 OCCUPANTS PER TABLE 1004.5

A-3: 1,000 S.F. (LIMITATIONS: **62**,000 S.F.; **4** STORIES, **85**' HEIGHT)
1,000/15 = 67 OCCUPANTS PER TABLE 1004.5

S-2: 1,648 S.F. (LIMITATIONS: **156**,000 S.F.; **6** STORIES, **85**' HEIGHT)
1,648/200 = 8 OCCUPANTS PER TABLE 1004.5

6 ****BOLD** NUMBERS HAVE BEEN REVISED DUE TO CONSTRUCTION TYPE CHANGING FROM TYPE IIB TO TYPE IIA

TOTAL BUILDING OCCUPANCY: 88 OCCUPANTS
TOTAL BUILDING SQUARE FOOTAGE: 4,735

F. CONSTRUCTION TYPES
TYPE IIA 100% SPRINKLERED 6

II. HEIGHT & AREA LIMITATIONS

A. ALLOWABLE HEIGHTS & AREAS - MOST RESTRICTIVE PROVISIONS:

BUILDING: SINGLE FIRE AREA IS CREATED, BOUNDED BY THE EXTERIOR WALLS OF THE BUILDING - A-3 OCCUPANCY, 4 STORY HEIGHT LIMIT, TYPE IIA CONSTRUCTION 6

PER SECTION 508.3.2, THE TOTAL AREA (4,735 S.F.) IS LESS THAN THE ALLOWABLE AREA LIMITATIONS FOR THE MOST RESTRICTIVE OCCUPANCY TYPE (A-3 - **62**,000 S.F.) AND THEREFORE QUALIFIES FOR NON-SEPARATED USE. 6

III. COMPONENT FIRE RESISTANCE CRITERIA

A. BUILDINGS ELEMENTS: TYPE IIA CONSTRUCTION
BUILDING OCCUPANCIES: B, R-3, A-3, S-2

THE FOLLOWING IS THE FIRE RESISTANCE RATING PER CONSTRUCTION TYPE IIA: 6

1. STRUCTURAL FRAME	1 HOUR	PER TABLE 601
2. BEARING WALLS		
- EXTERIOR	1 HOUR	PER TABLE 601
- INTERIOR	1 HOUR	PER TABLE 601
3. NON-BEARING WALLS		
- EXTERIOR	0 HOUR	PER TABLE 602 X > +30'-0"
- INTERIOR	0 HOUR	PER TABLE 601
4. FLOOR CONSTRUCTION	1 HOUR	PER TABLE 601
5. ROOF CONSTRUCTION	1 HOUR	PER TABLE 601

***BUILDING STRUCTURE TO HAVE A FIRE PROTECTIVE COATING APPLIED TO ACHIEVE A 1-HOUR RATING**

IV. EXIT REQUIREMENTS

A. MEANS OF EGRESS WIDTH FACTORS
PER SECTION 1005 A FACTOR OF 0.2 INCHES PER OCCUPANT IS TO BE USED FOR DETERMINING THE MINIMUM EGRESS/EXIT WIDTH AT DOORS.

88 (OCCUPANTS) X 0.2 (FACTOR) = 18 INCHES MINIMUM EGRESS WIDTH
EGRESS WIDTH PROVIDED = 216 INCHES

B. EXIT ACCESS TRAVEL DISTANCE
PER TABLE 1017.2 FOR OCCUPANCY GROUPS A & R WITH A SPRINKLER SYSTEM THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE SHALL BE NO MORE THAN 250'-0".

PER TABLE 1017.2 FOR OCCUPANCY GROUP B WITH A SPRINKLER SYSTEM THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE SHALL BE NO MORE THAN 300'-0".

PER TABLE 1017.2 FOR OCCUPANCY GROUP S-2 WITH A SPRINKLER SYSTEM THE MAXIMUM EXIT ACCESS TRAVEL DISTANCE SHALL BE NO MORE THAN 400'-0".

C. SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
PER TABLE 1006.2.1 FOR OCCUPANCY GROUP A WITH A SPRINKLER SYSTEM THE MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE IS 75'-0".

PER TABLE 1006.2.1 FOR OCCUPANCY GROUPS B & S WITH A SPRINKLER SYSTEM THE MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE IS 100'-0".

PER TABLE 1006.2.1 FOR OCCUPANCY GROUP R-3 WITH A SPRINKLER SYSTEM THE MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE IS 125'-0".

D. MINIMUM EGRESS REQUIREMENTS
PER TABLE 1006.3.1 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY

NUMBER OF REQUIRED EXITS:
BUILDING 01 = 2

NUMBER OF EXITS PROVIDED:
BUILDING 01 = 2

V. FIRE PROTECTION SYSTEMS REQUIREMENTS

	REQUIRED
AUTOMATIC SPRINKLER	YES
MANUAL FIRE ALARM SYSTEM	NO
SMOKE DETECTORS	NO
STORAGE ROOMS OVER 300SF	N/A

FIRE EXTINGUISHERS - NO PORTION OF THE SPACE SHALL EXCEED 75' OF UNOBSTRUCTED TRAVEL TO FIRE EXTINGUISHERS.

AREAS:	
B	RE: A0.10 FOR EXTINGUISHER LOCATIONS
R-3	RE: A0.10 FOR EXTINGUISHER LOCATIONS
A-3	RE: A0.10 FOR EXTINGUISHER LOCATIONS
S-2	RE: A0.10 FOR EXTINGUISHER LOCATIONS

VI. PLUMBING FIXTURES

A. PER TABLE 2902.1 THE FOLLOWING PLUMBING FIXTURES ARE REQUIRED TOTAL OCCUPANT LOAD -

REQUIRED FIXTURES:
B - REQUIRED FIXTURES: 9 OCCUPANTS
WATER CLOSETS - 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
LAVATORIES - 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80
DRINKING FOUNTAINS - 1 PER 100
SERVICE SINK - 1 REQUIRED - EXCEPTION e. OCCUPANT LOAD < 15 = NOT REQUIRED

R-3 - REQUIRED FIXTURES: 4 OCCUPANTS
WATER CLOSETS - 1 PER 10
LAVATORIES - 1 PER 10
DRINKING FOUNTAINS - 1 PER 100
SERVICE SINK - 1 REQUIRED

A-3 - REQUIRED FIXTURES: 67 OCCUPANTS
WATER CLOSETS - 1 PER 150 PER MALE, 1 PER 75 PER FEMALE
LAVATORIES - 1 PER 200
DRINKING FOUNTAINS - 1 PER 1,000
SERVICE SINK - 1 REQUIRED

S-2 - REQUIRED FIXTURES: 8 OCCUPANTS
WATER CLOSETS - 1 PER 100
LAVATORIES - 1 PER 100
DRINKING FOUNTAINS - 1 PER 1,000
SERVICE SINK - 1 REQUIRED

TOTAL PROVIDED FIXTURES:
WATER CLOSETS - UNI-SEX R/R 113 - 1 WATER CLOSET
UNI-SEX R/R 114 - 1 WATER CLOSET = 3 PROVIDED
WASHROOM 110 - 1 WATER CLOSET

LAVATORIES - UNI-SEX R/R 113 - 1 WATER CLOSET
UNI-SEX R/R 114 - 1 WATER CLOSET = 3 PROVIDED
WASHROOM 110 - 1 WATER CLOSET

DRINKING FOUNTAINS - 1 PROVIDED
SERVICE SINK - 1 PROVIDED

VII. DEFERRED SUBMITTALS

PER SECTION 107.3.4.1:
"SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITALL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL"

ITEMS TO BE DEFERRED:

-PRE-ENGINEERED METAL BUILDING (INCLUDING ROOF MATERIALS, ROOF DRAINAGE CALCULATIONS, LOAD REACTIONS AND LOCATIONS, PEMB STRUCTURAL PLANS AND CALCULATIONS)
-FIRE ALARM
-FIRE SPRINKLERS

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PERMIT REV 2 - 2022/08/15

COUNTY OF IMPERIAL

GENERAL NOTES

1. WORKMANSHIP, MATERIALS AND INSTALLATIONS SHALL CONFORM TO LATEST EDITIONS OF THE CBC, IFC, IMC, IPC, AND NEC, ETC., AS WELL AS APPLICABLE STATE AND LOCAL CODES, TRADE ASSOCIATION STANDARDS AND MANUFACTURER'S STANDARDS AND AMENDMENTS AS ADOPTED BY THE LOCAL JURISDICTION OR WHICHEVER IS MORE STRINGENT.

2. IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THESE CONTRACT DOCUMENTS, ALL SUBCONTRACTORS SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR AND SUPERVISION REQUIRED TO COMPLETE THEIR WORK. ALL WORK SHALL BE PERFORMED IN A GOOD WORKMANLIKE MANNER.

3. ALL WORK SHALL BE DONE BY SUBCONTRACTORS DULY LICENSED BY THE LOCAL JURISDICTION. ALL WORK TO BE DONE PER THE LATEST EDITION OF THE APPLICABLE NATIONAL, STATE, AND LOCAL CODES.

4. SUBCONTRACTORS ARE REQUIRED TO CAREFULLY EXAMINE THE PROJECT CONSTRUCTION DOCUMENTS SO THAT ALL WORK WILL BE PROPERLY COORDINATED. ANY DISPUTE RESULTING FROM NON-COORDINATION REQUIREMENTS SHALL BE SETTLED BY MBA ENERGY & INDUSTRIAL AT NO ADDITIONAL COST TO THE OWNER OR MBA ENERGY & INDUSTRIAL AND WITHOUT REGARD TO WHOSE MATERIAL WAS INSTALLED FIRST, BUT AS REQUIRED FOR PROPER FUNCTIONING OF THE CONFLICTING SYSTEMS AS APPROVED BY MBA ENERGY & INDUSTRIAL.

5. SUBCONTRACTORS ARE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. SUBCONTRACTORS SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, EXCAVATION PROTECTION, SCAFFOLDING, JOB SITE SAFETY, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, OWNER, OR ENGINEER SHALL NOT INCLUDE INSPECTION OF ABOVE ITEMS.

6. SUBCONTRACTORS SHALL NOT USE REPRODUCTIONS OF THE CONTRACT DOCUMENTS AS SHOP DRAWINGS, OR THE BASIS OF SHOP DRAWINGS, WITHOUT WRITTEN AUTHORIZATION BY MBA ENERGY & INDUSTRIAL. MBA ENERGY & INDUSTRIAL ASSUMES NO LIABILITY AS THE RESULT OF THE USE OF REPRODUCTIONS OF THE CONTRACT DOCUMENTS FOR SHOP DRAWINGS.

7. SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ETC., PRIOR TO BEGINNING CONSTRUCTION AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES. PROCEEDING WITH WORK SHALL CONSTITUTE ACCEPTANCE BY THE SUBCONTRACTOR THAT ALL CONDITIONS ARE CORRECT AND THE SUBCONTRACTOR SHALL ASSUME FULL RESPONSIBILITY.

8. DO NOT SCALE DRAWINGS. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM MBA ENERGY & INDUSTRIAL BEFORE CONTINUING CONSTRUCTION. ALL MEASUREMENTS ARE SUBJECT TO VERIFICATION IN THE FIELD BY SUBCONTRACTORS. SUBCONTRACTORS SHALL NOTIFY MBA ENERGY & INDUSTRIAL OF ANY DISCREPANCIES PRIOR TO FABRICATION OR CONSTRUCTION.

9. SUBCONTRACTORS SHALL VISIT THE SITE AND INFORM THE ARCHITECT OF ANY CONDITIONS THAT MAY AFFECT THE EXECUTION OF THE WORK PRIOR TO COMMENCING ANY AFFECTED WORK.

10. SUBCONTRACTORS TO VERIFY ALL INFORMATION ON PROJECT CONSTRUCTION DOCUMENTS AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT PRIOR TO SUBMISSION OF BIDS OF ANY AFFECTED WORK. FAILURE TO FULLY REVIEW ALL DRAWINGS IS NOT GROUNDS FOR CHANGE ORDERS.

11. ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS UNLESS SPECIFICALLY NOTED TO THE CONTRARY. NOTIFY THE ARCHITECT IF MANUFACTURER'S REQUIREMENTS ARE MORE STRINGENT.

12. ALL MATERIALS AND EQUIPMENT FURNISHED BY SUBCONTRACTORS SHALL BE NEW AND FREE FROM DEFECTS.

13. MATERIALS, EQUIPMENT, ETC., NOT INDICATED ON DRAWINGS OR SPECIFIED HEREIN, BUT REQUIRED FOR SUCCESSFUL AND EFFICIENT COMPLETION OF THE INSTALLATION, SHALL BE HELD TO BE IMPLIED AND SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER OR THE ARCHITECT.

14. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR MAINTAINING THE BUILDING AND SITE, CLEANING AND PROVIDING ALL AND ANY SAFETY PROVISIONS TO ENSURE THE PUBLIC SAFETY ON A DAILY BASIS.

15. DAMAGED WORK MUST BE REPLACED AT NO ADDITIONAL COST TO THE OWNER OR THE ARCHITECT.

16. SUBCONTRACTORS SHALL PROVIDE BACKING BEHIND FINISH WALL AND CEILING SURFACES FOR SUPPORT AND ATTACHMENT OF CASEWORK, SHELVING, MIRRORS, PEGBOARDS, COUNTERS, TOILET PARTITIONS AND ACCESSORIES ETC.

17. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM OR WHICHEVER IS MORE STRINGENT.

18. ESTABLISH AND VERIFY ALL OPENING AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PRIOR TO CONSTRUCTION. CONFIRM WITH OWNER J-BOXES AND CONDUITS REQUIRED FOR FIRE DETECTION AND SECURITY SYSTEM.

19. NOTIFY THE ARCHITECT OF CONFLICT IN DETAILS OR GENERAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT AND TO APPLICABLE CODES. DETAILS NOTED AS "TYPICAL" SHALL APPLY UNLESS NOTED OTHERWISE.

20. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A LICENSED PROFESSIONAL ENGINEER/ARCHITECT REGISTERED WITH THE AUTHORITY HAVING JURISDICTION.

21. IN CASE OF PLAN LOCATION CONFLICTS BETWEEN DISCIPLINES, NOTIFY THE ARCHITECT.

22. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE SUBCONTRACTORS SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO; BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY ARCHITECT OR ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

23. THESE DOCUMENTS ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN ORIGINALLY ISSUED UNLESS AUTHORIZED IN WRITING BY THE ARCHITECT OF RECORD.

24. SHOP DRAWINGS ARE TO COMPLIMENT AND SUPPLEMENT CONSTRUCTION DOCUMENTS. WHEN CONFLICTING INFORMATION IS PROVIDED IN SHOP DRAWINGS AND CONSTRUCTION DOCUMENTS, NOTIFY THE ARCHITECT PRIOR TO FABRICATION. REVIEW OF SHOP DRAWINGS BY ARCHITECT DOES NOT RELIEVE SUBCONTRACTOR OF RESPONSIBILITY FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS.

25. THE ARCHITECT RESERVES THE RIGHT TO DIRECT REMOVAL AND REINSTALLATION OF WORK WHICH DOES NOT, IN THE OPINION OF THE ARCHITECT, MAINTAIN STANDARDS AND WORKMANSHIP OF A CRAFT.

26. MANUALLY OPERATED EDGE OR SURFACE MOUNTED BOLTS (FLUSH AND SURFACE) ARE PROHIBITED (CBC).

27. ON SITE FABRICATED SHEET METAL WORK SHALL CONFORM TO LATEST S.M.A.C.N.A. STANDARDS.

28. ALL DRYWALL PARTITIONS ARE DIMENSIONED FINISH DRYWALL FACE TO FINISH DRYWALL FACE, UNLESS OTHERWISE NOTED.

29. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPE, BED, WITH LEVEL 4 FINISH UNLESS NOTED OTHERWISE.

30. PRIOR TO START OF CONSTRUCTION, IDENTIFY GAS MAIN AND SHUTDOWN, ELECTRICAL MAIN AND SHUTDOWN, WATER MAIN AND SHUTDOWN, AND ALL OTHER EMERGENCY UTILITY SHUTDOWN DEVICES. POST A PLAN OF ALL LOCATIONS WITH EMERGENCY NUMBERS OF TRADES ASSOCIATED WITH SUCH UTILITIES. SITE SHALL BE BLUE-STAKED BEFORE START OF U.G. WORK.

31. SEAL ALL CRACKS AROUND STRUCTURAL MEMBERS, BRACING, PIPES, CONDUITS, DUCTS AND BETWEEN WALLS AND ROOF DECK WHERE AIR INFILTRATIONS BETWEEN CONDITIONED AND NON-CONDITIONED (EXTERIOR) SPACES MAY OCCUR (I.E. SEAL THE BUILDING ENVELOPE).

32. CONCEAL ALL PIPING IN DRYWALL, WHERE PIPING IS TOO LARGE, WALLS ARE TO BE FURRED-OUT MINIMUM TO CONCEAL PIPING. INFORM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

33. CONCRETE SUBCONTRACTOR SHALL ENSURE FLATNESS OF BUILDING SLAB. MAXIMUM DEVIATION 5/8" TOLERANCE PER 10'-0" DISTANCE

MATERIAL INDICATIONS

- CONCRETE
- BRICK
- CONC. MASONRY UNITS (CMU)
- RIGID INSULATION
- BATT INSULATION
- ACOUSTICAL TILE
- GYPSUM BOARD
- PLASTER ON METAL LATH
- FINISH WOOD
- CONTINUOUS WOOD
- BLOCKING / SHIM
- PLYWOOD
- EARTH
- SAND/MORTAR
- STEEL
- ALUMINUM
- STONE
- GRAVEL
- SEALANT
- BACKER ROD & SEALANT

ARCHITECTURAL SYMBOLS

- A — WINDOW AND LOUVER TYPE
- L8, 1-4 — PARTITION TYPE
- 101 — DOOR DESIGNATION
- 01/A101 — EXTERIOR ELEVATION
- 1/A101 — INTERIOR ELEVATION
- 01/A101 — DETAIL MARKER
- 1 — REVISION
- N — NORTH ARROW
- KEYED NOTE
- 01 / A1.01 — BUILDING SECTION
- 01/A1.01 — WALL SECTION DETAIL CUT
- WORK POINT/ TOP OF FRAMING OR STEEL
- PROPERTY LINE POINT
- ENLARGED DETAIL KEY/REFERENCE — 01 / A1.01
- **ROOM NAME** 100 — ROOM NAME & ROOM NUMBER

SHEET NUMBER	SHEET NAME / CONTENT

CIVIL DRAWINGS

C1.01	TITLE SHEET
C1.02	SHEET INDEX/SITE PLAN
C1.03	EXISTING DEMOLITION SITE PLAN
C1.04	GRADING IMPROVEMENT PLAN
C1.05	GRADING IMPROVEMENT PLAN
C1.06	FENCING/UTILITY PLAN
C1.07	HANDICAP PARKING LOT BLOW-UP DETAIL
C1.08	GRADING AND FINISH SURFACE SECTION
C1.09	WATER, SANITARY SEWER, PAVING AND SITE GRADING DETAIL SHEET
C1.10	SOLID WASTE ENCLOSURE PLAN
C1.11	WATER AND SANITARY SEWER DETAIL SHEET
C1.12	CHAIN LINK FENCE DETAIL SHEET
C1.13	MISCELLANEOUS DETAIL SHEET
C1.14	SOLID WASTE ENCLOSURE SECTIONS AND DETAILS
C1.15	EROSION CONTROL PLAN AND CONTRACTOR STAGING AREA
C1.16	EROSION CONTROL DETAILS
C1.17	HORIZONTAL CONTROL PLAN
C2.01	EVAN HEWES HIGHWAY WATER AND SANITARY SEWER PLAN AND PROFILE SHEET
C2.02	STORM WATER DRAINAGE SWALE AND SECTIONS
C2.03	WATER AND SEWERDETAIL SHEET
C2.04	WATER, SEWER AND DEPRESSED CURB & GUTTER DETAIL SHEET
C2.05	TRAFFIC CONTROL PLAN
C2.06	SIGNAGE AND STRIPING PLAN

SHEET NUMBER	SHEET NAME / CONTENT

ARCHITECTURAL DRAWINGS

A0.00	COVER
A0.01	DRAWINGS INDEX / SYMBOLS & ABBREVIATIONS
A0.02	ADA REQUIREMENTS
A0.03	ADA REQUIREMENTS
A0.04	ADA REQUIREMENTS
A0.05	ADA REQUIREMENTS
A0.10	LIFE SAFETY PLAN
A0.21	THERMAL & MOISTURE PROTECTION

SHEET NUMBER	SHEET NAME / CONTENT

ARCHITECTURAL DRAWINGS

A1.00	OVERALL SITE PLAN
A1.10	SITE PLAN DETAILS
A3.00	FLOOR PLAN - DIMENSIONS
A3.10	FLOOR PLAN - ANNOTATIONS
A3.20	ARCHITECTURAL FOUNDATION PLAN
A3.30	ENLARGED PLANS
A4.00	REFLECTED CEILING PLAN
A5.00	EXTERIOR ELEVATIONS
A6.00	BUILDING SECTIONS
A6.10	WALL SECTIONS
A7.00	INTERIOR ELEVATIONS
A7.20	MILLWORK DETAILS
A9.00	FINISH FLOOR PLAN & SCHEDULES
A9.10	FINISH DETAILS
A9.20	DOOR, WINDOW, & HARDWARE SCHEDULES
A9.30	DOOR & WINDOW DETAILS
A9.50	PARTITION TYPES
A9.60	UL ASSEMBLIES
A9.80	CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES
A9.81	CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES
A9.82	CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES

SHEET NUMBER	SHEET NAME / CONTENT

STRUCTURAL DRAWINGS

S0.00	STRUCTURAL LEGENDS AND SPECS
S1.01	FOUNDATION PLAN
S2.01	CONCRETE FOUNDATION - SCHEDULE
S2.02	CONCRETE REINFORCING
S3.01	FOUNDATION DETAILS

SHEET NUMBER	SHEET NAME / CONTENT

MECHANICAL DRAWINGS

M0.02	HVAC - TITLE 24 SHEETS
M0.03	HVAC - TITLE 24 SHEETS
M0.04	HVAC - TITLE 24 SHEETS
M4.01	HVAC DETAILS
M0.00	HVAC COVER SHEET
M0.01	HVAC CALCULATIONS
M2.11	HVAC PLAN
M3.00	HVAC SCHEDULES
M4.00	HVAC DETAILS

SHEET NUMBER	SHEET NAME / CONTENT

ELECTRICAL DRAWINGS

E0.00	ELECTRICAL COVER SHEET
E0.01	TITLE 24 ENERGY COMPLIANCE FORMS
E0.02	TITLE 24 ENERGY COMPLIANCE FORMS
E0.03	TITLE 24 ENERGY COMPLIANCE FORMS
E1.00	ELECTRICAL SITE PLAN
E1.11	LIGHTING PLAN
E2.11	POWER PLAN
E3.00	PANEL SCHEDULES
E4.00	ONE-LINE DIAGRAM & DETAILS

SHEET NUMBER	SHEET NAME / CONTENT

PLUMBING DRAWINGS

P0.00	PLUMBING COVER SHEET
P1.11	PLUMBING WASTE & VENT PLAN
P2.11	PLUMBING WATER & GAS PLAN
P3.00	PLUMBING SCHEDULES
P4.00	PLUMBING DETAILS

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT — MAY 2023 RENEWAL DATE — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

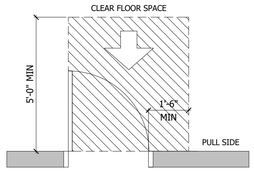
SEELEY FIRE STATION & COOLING CENTER

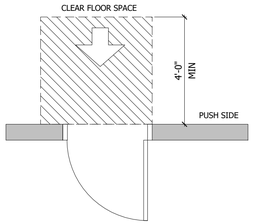
SHEET CONTENT:

DRAWINGS INDEX / SYMBOLS & ABBREVIATIONS

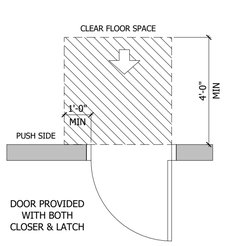
SHEET A0.01 OF ___ SHEETS

JOB NO. 1509-00

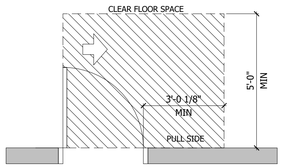




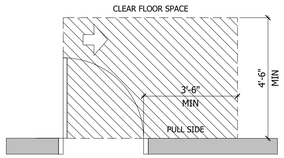
FRONT APPROACH - SWINGING DOORS

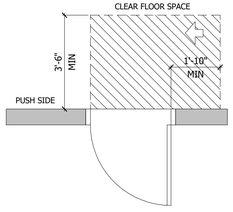


DOOR PROVIDED WITH BOTH CLOSER & LATCH

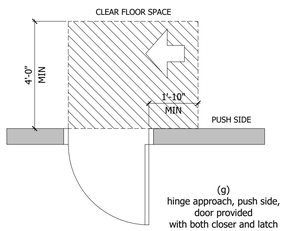


LATCH SIDE APPROACH - SWINGING DOORS

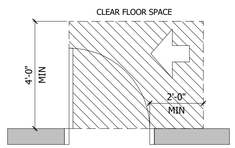




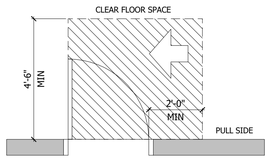
HINGE SIDE APPROACH - SWINGING DOORS



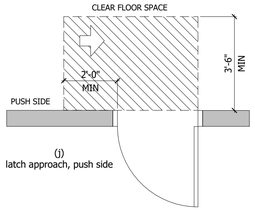
(g)
hinge approach, push side, door provided with both closer and latch



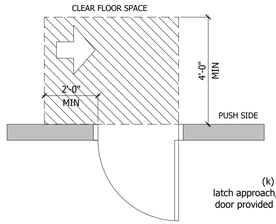
(h)
latch approach, pull side



(i)
latch approach, pull side, door provided with closer

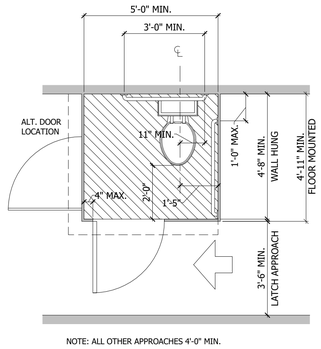


(j)
latch approach, push side



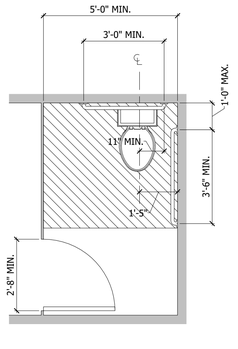
(k)
latch approach, push side, door provided with closer

SWINGING DOORS AND GATES - SECTION 404.2.4.1

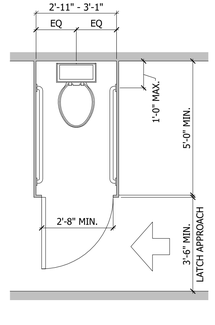


NOTE: ALL OTHER APPROACHES 4'-0" MIN.

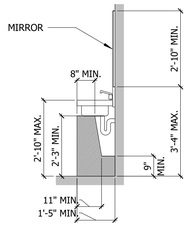
STANDARD STALLS



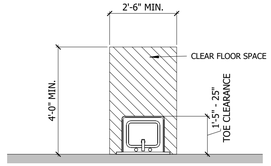
ALTERNATE STALLS



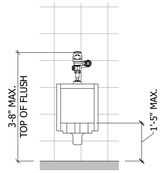
SIZE - SECTION 604.8.1.1



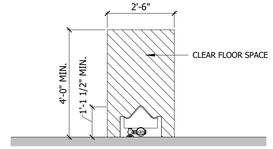
NOTE: EQUIPMENT NOT PERMITTED IN SHADED AREA. MUST COMPLY WITH 305 AND 306 OF THE TAS



NOTE: HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS. CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM PER 606.4.



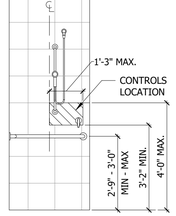
NOTE: URINALS SHALL HAVE A TAPERED ELONGATED RIM



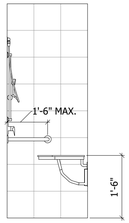
NOTE: URINALS INSTALLED IN ALCOVES DEEPER THAN 24" REQUIRE A CLEAR FLOOR SPACE 3'-0" WIDE

CLEAR FLOOR SPACE & HEIGHT - SECTION 606.2 - 606.5

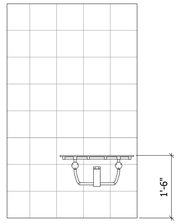
URINALS - SECTION 605.2



CONTROL WALL



END WALL



SEAT WALL

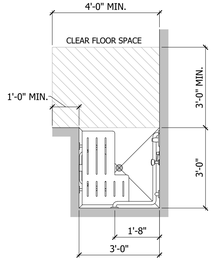


FIGURE 608.2.1

NOTE: Y= PROVIDE A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER.

TRANSFER TYPE SHOWER COMPARTMENTS - SECTION 608.2.1, 608.5.1, 608.5.2 & 608.5.3

DOORS

SECTION 404.2.4.1 - Maneuvering Clearances at Manual Swinging Doors and Gates
SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.1

SECTION 404.2.3 - CLEAR WIDTH
DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32" MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24" IN DEPTH SHALL PROVIDE A CLEAR OPENING OF 36" MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34" ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34" AND 80" ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.

SECTION 404.2.5 - THRESHOLDS
THRESHOLDS, IF PROVIDE AT DOORWAYS, SHALL BE 1/2" HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 302 AND 303.

SECTION 404.2.7 - DOOR AND GATE HARDWARE
HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITIONS, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

SECTION 404.2.8.1 - DOOR CLOSERS AND GATE CLOSERS
DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

SECTION 404.2.9 - DOOR AND GATE OPENING FORCE
THE MAXIMUM FORCE PERTAINS TO THE CONTINUOUS APPLICATION OF FORCE NECESSARY TO FULLY OPEN A DOOR. NOT THE INITIAL FORCE NEEDED TO OVERCOME THE INERTIA OF THE DOOR. IT DOES NOT APPLY TO THE FORCE REQUIRED TO RETRACT BOLTS OR TO DISENGAGE OTHER DEVICES USED TO KEEP THE DOOR IN A CLOSED POSITION.

TOILET AND SHOWER STALLS

SECTION 604.8.1.1 - TOILET STALLS
WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO TEH SIDE WALL, AND 59 INCHES DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.

SECTION 605.2 - URINALS HEIGHT AND DEPTH
URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 1/2 INCHES DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHAL COMPLY WITH 309.

SECTION 606.2 & 606.3 - LAVATORIES AND SINKS
LAVATORIES AND SINKS SHALL COMPLY WITH 606. A CLEAR FLOOR SPACE COMPLYING WITH 305. POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

SECTION 608.5.1 - TRANSFER TYPE SHOWER COMPARTMENTS
IN TRANSFER TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE SIDE WALL OPPOSITE THE SEAT 38 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE SHOWER FLOOR AND SHALL BE LOCATED ON THE CONTROL WALL 15 INCHES MAXIMUM FROM THE CENTERLINE OF THE SEAT TOWARD THE SHOWER OPENING.

SECTION 608.5.2 - STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS
IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE BACK WALL ADJACENT TO THE SEAT WALL AND SHALL BE LOCATED 27 INCHES MAXIMUM FROM TEH SEAT WALL.

SECTION 608.5.3 - ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS
IN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ON THE SIDE WALL ADJACENT TO THE SEAT 27 INCHES MAXIMUM FROM THE SIDE WALL BEHIND THE SEAT OR SHALL BE LOCATED ON THE BACK WALL OPPOSITE THE SEAT 15 INCHES MAXIMUM, LEFT OR RIGHT, OF THE CENTERLINE OF THE SEAT. WHERE A SEAT IS NOT PROVIDED, THE CONTROLS. FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE SIDE WALL FARTHEST FROM THE COMPARTMENT ENTRY.

SIGNAGE

SECTION 216.1 - BUILDING SIGNS
SIGNS WHICH DESIGNATE PERMANENT ROOMS AND SPACES SHALL COMPLY WITH ALL SECTIONS OF SECTIONS 216 AND 703. ELEMENTS AND SPACES OF ACCESSIBLE FACILITIES WHICH SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY ARE PARKING SPACES AS RESERVED FOR INDIVIDUALS WITH DISABILITIES, ACCESSIBLE PASSENGER LOADING ZONES, ACCESSIBLE ENTRANCES WHEN NOT ALL ARE ACCESSIBLE, AND ACCESSIBLE TOILET AND BATHING FACILITIES WHEN NOT ALL ARE ACCESSIBLE.

SECTION 216.2 & 216.3 - BUILDING SIGNS
SIGNS WHICH DESIGNATE PERMANENT ROOMS AND SPACES AND OTHER SIGNS WHICH PROVIDE DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDING SHALL COMPLY WITH ALL SECTIONS OF 703.5. (BUILDING DIRECTORIES, MENUS, AND ALL OTHER SIGNS WHICH ARE TEMPORARY ARE NOT REQUIRED TO COMPLY.)

SECTION 216.6 - ENTRANCES
WHERE NOT ALL ENTRANCES COMPLY WITH 404, ENTRANCES COMPLYING WITH 404 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. DIRECTIONAL SIGNS COMPLYING WITH 703.5 THAT INDICATE THE LOCATION OF THE NEAREST ENTRANCE COMPLYING WITH 404 SHALL BE PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH 404.

SECTION 703.1 - SIGNS
SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.

SECTION 703.2.1 & 703.3- RAISED AND BRAILLED CHARACTERS
RAISED CHARACTERS SHALL BE 1/32" MINIMUM ABOVE THEIR BACKGROUND. CHARACTERS SHALL BE UPPERCASE, SANS SERIF, AND SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. BRAILLE CHARACTERS SHALL BE CONTRACTED (GRADE 2).
CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8"MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I"

SECTION 703.2.4 - CHARACTER PROPORTION
CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

SECTION 703.5.1 - FINISH AND CONTRAST
CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND

NOTE: THESE DRAWINGS ARE FOR GENERAL MOUNTING CLEARANCE REFERENCE. SEE PLANS FOR CONFIGURATIONS. ALL DIMENSIONS SHALL CONFORM TO ADA STANDARDS.

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M HOLT — MAY 2023 RENEWAL DATE — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ADA REQUIREMENTS

SHEET
A0.02
OF ___ SHEETS
JOB NO.
1509-00

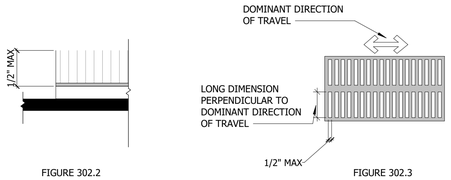


FIGURE 302.2 FIGURE 302.3

CARPET AND OPENINGS - SECTION 302.2 AND 302.3

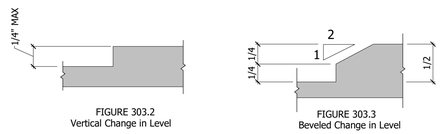
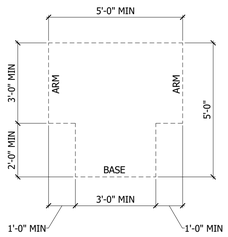


FIGURE 303.2
Vertical Change in Level

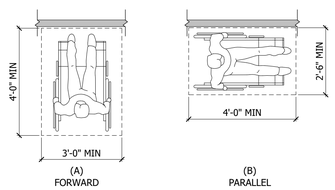
FIGURE 303.3
Beveled Change in Level

CHANGES IN LEVEL - SECTION 303.2 AND 303.3



TURNING SPACE - SECTION 304.3.2

SIZE - CLEAR FLOOR OR GROUND SPACE - SECTION 305.3



POSITION OF CLEAR FLOOR OR GROUND SPACE - SECTION 305.5

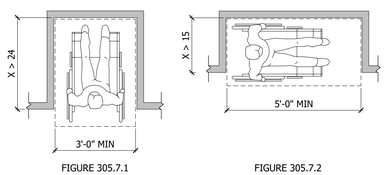


FIGURE 305.7.1 FIGURE 305.7.2

FORWARD AND PARALLEL APPROACH - SECTION 305.7.1 & 305.7.2

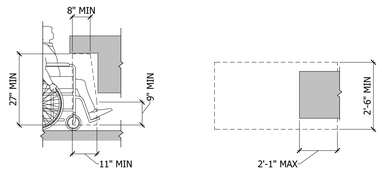


FIGURE 306.3

(a) elevation (b) plan

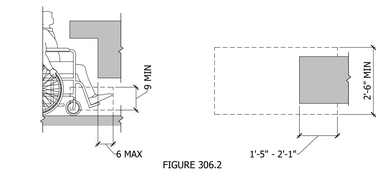


FIGURE 306.2

(a) elevation (b) plan

TOE AND KNEE CLEARANCE - SECTION 306.2 & 306.3

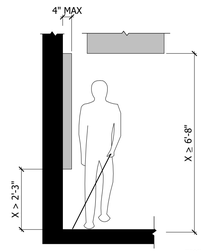
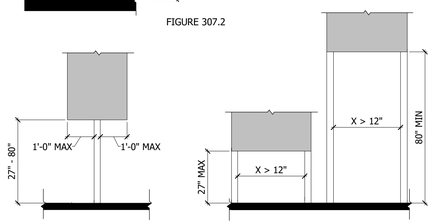


FIGURE 307.2



(a) (b)

FIGURE 307.3

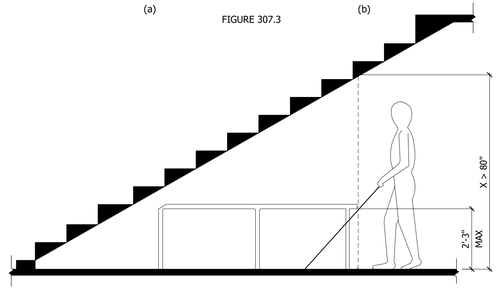
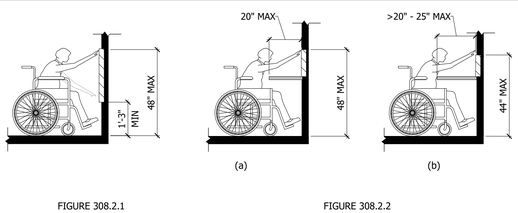


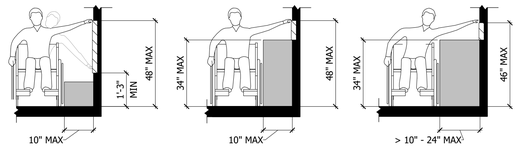
FIGURE 307.4

PROTRUDING OBJECTS - SECTION 307.2 & 307.3 & 307.4



(a) (b)

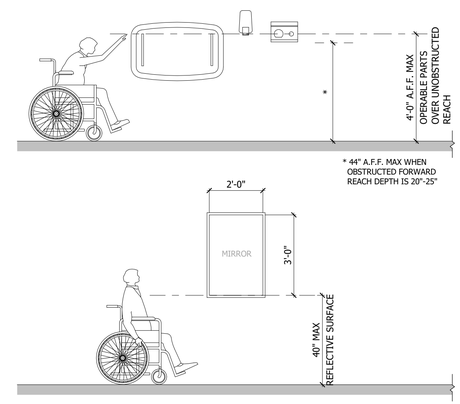
FIGURE 308.2.1 FIGURE 308.2.2



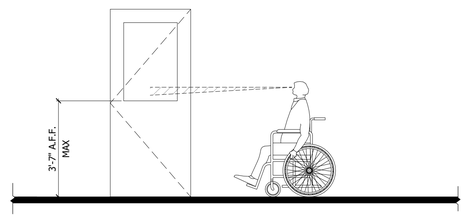
(a) (b)

FIGURE 308.3.1 FIGURE 308.3.2

REACH RANGES - SECTION 308.2.1, 308.2.2, 308.3.1 & 308.3.2



MIRRORS - SECTION 603.3 - RESTROOM ACCESSORIES



VISION LIGHTS - SECTION 404.2.11

BUILDING BLOCKS

SECTION 302.1 - GENERAL
FLOOR OR GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 302.

SECTION 302.2 - CARPET
CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.

SECTION 302.3 - OPENINGS
OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 409.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

SECTION 303.2 - VERTICAL
CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.

SECTION 303.3 - BEVELED
CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

SECTION 304.3.2 - T-SHAPED SPACE
THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

SECTION 305.3 - SIZE
THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES MINIMUM BY 48 INCHES MINIMUM.

SECTION 305.5 - POSITION
UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

SECTION 305.7.1 - FORWARD APPROACH
ALCOVES SHALL BE 36 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES.

SECTION 305.7.2 - PARALLEL APPROACH
ALCOVES SHALL BE 60 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES.

SECTION 306.2 - TOE CLEARANCE
GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2

SECTION 306.3 - KNEE CLEARANCE
GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

SECTION 307.2 - PROTRUSION LIMITS
OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.

SECTION 307.3 - POST-MOUNTED PROTRUDING OBJECTS
FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12 INCHES MAXIMUM WHEN LOCATED 27 INCHES MINIMUM AND 80 INCHES MAXIMUM ABOVE LOCATED 27 INCHES MINIMUM AND 80 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12 INCHES, THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27 INCHES MAXIMUM OR 80 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTION 307.4 - VERTICAL CLEARANCE
VERTICAL CLEARANCE SHALL BE 80 INCHES HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTON 308.2.1 - UNOBSTRUCTED
WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTION 308.2.2 - OBSTRUCTED HIGH REACH
WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE DEPTH IS 20 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS THE 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM.

SECTION 308.3.1 - UNOBSTRUCTED
WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTION 308.3.2 - OBSTRUCTED HIGH REACH
WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM.

SECTION 404.2.11 - VISION LIGHTS
DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR.
EXCEPTION: VISION LIGHTS WITH THE LOWEST PART MORE THAN 66 INCHES FROM THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.11

SECTION 903.1 - GENERAL
BENCHES SHALL COMPLY WITH 903

SECTION 903.2 - CLEAR FLOOR OR GROUND SPACE
CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED AND SHALL BE POSITIONED AT THE END OF THE BENCH SEAT AND PARALLEL TO THE SHORT AXIS OF THE BENCH

903.3 - SIZE
BENCHES SHALL HAVE SEATS THAT ARE 42 INCHES LONG MINIMUM AND 20 INCHES DEEP MINIMUM AND 24 INCHES MAXIMUM

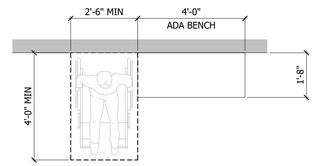
903.4 - BACK SUPPORT
THE BENCH SHALL PROVIDE FOR BACK SUPPORT OR SHALL BE AFFIXED TO A WALL. BACK SUPPORT SHALL BE 42 INCHES LONG MINIMUM AND SHALL EXTEND FROM A POINT 2 INCHES MAXIMUM ABOVE THE SEAT SURFACE TO A POINT 18 INCHES ABOVE THE SEAT SURFACE. BACK SUPPORT SHALL BE 2 1/2 INCHES MAXIMUM FROM THE REAR EDGE OF THE SEAT MEASURED HORIZONTALLY

903.5 - HEIGHT
THE TOP OF THE BENCH SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND

903.6 - STRUCTURAL STRENGTH
ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE

903.7 - WET LOCATIONS
WHERE INSTALLED IN WET LOCATIONS, THE SURFACE OF THE SEAT SHALL BE SLIP RESISTANT AND SHALL NOT ACCUMULATE WATER

NOTE: THESE DRAWINGS ARE FOR GENERAL MOUNTING CLEARANCE REFERENCE. SEE PLANS FOR CONFIGURATIONS. ALL DIMENSIONS SHALL CONFORM TO ADA STANDARDS.



CLEAR FLOOR SPACE @ ADA BENCH

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY: ____
DRAWN BY: LMH
CHECKED BY: NEB

ADVANCED ARCHITECTURE TIMOTHY M. HOLT
MAY 2023 RENEWAL DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ADA REQUIREMENTS

SHEET
A0.03
OF ___ SHEETS
JOB NO.
1509-00

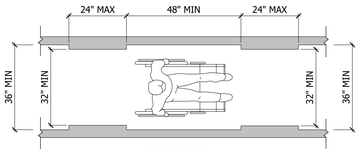
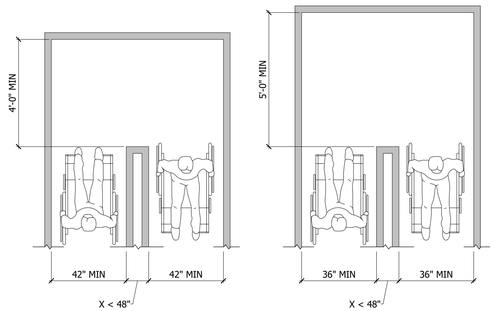


FIGURE 403.5.1

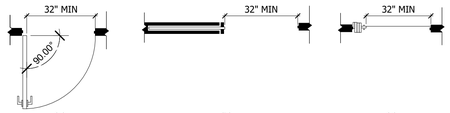


(a)
180 degree turn

(b)
180 degree turn
(Exception)

FIGURE 403.5.2

WALKING SURFACES - SECTION 403.5.1 & 403.5.2

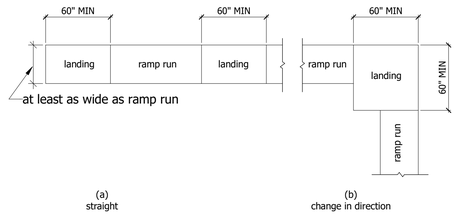


(a)
hinged door

(b)
sliding door

(c)
folding door

CLEAR WIDTH - SECTION 404.2.3



(a)
straight

(b)
change in direction

FIGURE 405.7

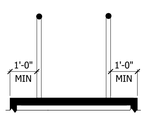


FIGURE 405.9.1

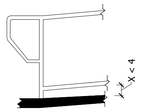
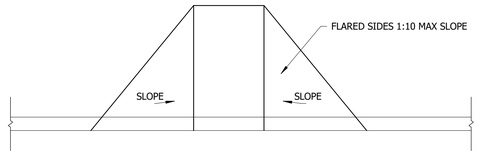
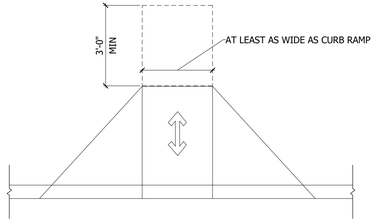


FIGURE 405.9.2

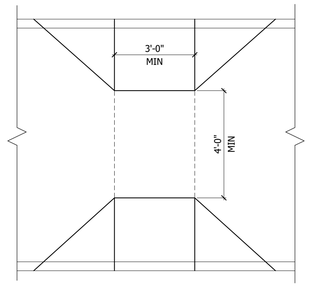
LANDINGS & EDGE PROTECTION - SECTION 405.7 & 405.9.1 & 405.9.2



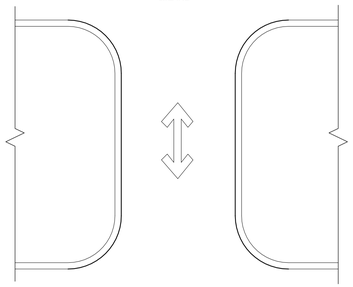
SIDES OF CURB RAMPS - SECTION 406.3



CURB RAMPS - SECTION 406.4

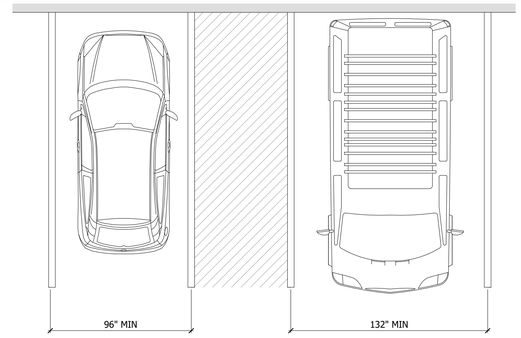


(B)
CURB RAMP AT
ISLAND



(A)
CUT THROUGH AT
ISLAND

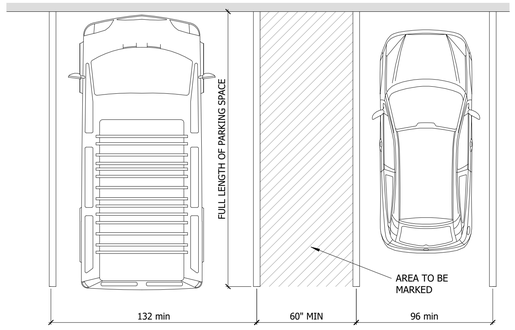
ISLANDS - SECTION 406.7



(A)
CAR

(B)
VAN

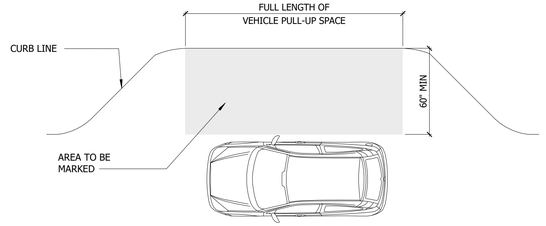
PARKING SPACES - SECTION 502.2



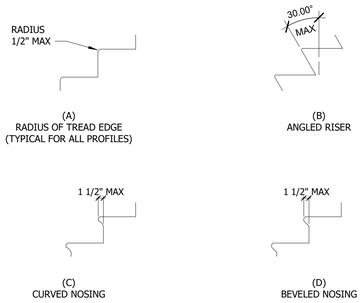
(A)
VAN

(B)
CAR

PARKING SPACES - SECTION 502.2



PASSENGER LOADING ZONE ACCESS AISLE - SECTION 503.3



(A)
RADIUS OF TREAD EDGE
(TYPICAL FOR ALL PROFILES)

(B)
ANGLED RISER

(C)
CURVED NOSING

(D)
BEVELED NOSING

NOSINGS - SECTION 504.5

ACCESSIBLE ROUTES

SECTION 403.3 - SLOPE
THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.

SECTION 403.5.1 - CLEAR WIDTH
EXCEPT AS PROVIDED IN 403.5.2 AND 403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINIMUM.

SECTION 403.5.2 - CLEAR WIDTH AT TURN
WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTH SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE TURN AND 42 INCHES MINIMUM LEAVING THE TURN.

SECTION 404.2.3 - CLEAR WIDTH
DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE TEH FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.

SECTION 405.7 - LANDINGS
RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. LANDINGS SHALL COMPLY WITH 405.7.

SECTION 405.9.1 - EXTENDED FLOOR OR GROUND SURFACE
THE FLOOR OR GROUND SURFACE OF THE RAMP RUN OR LANDING SHALL EXTEND 12 INCHES MINIMUM BEYOND THE INSIDE FACE OF A HANDRAIL COMPLYING WITH 505.

SECTION 405.9.2 - CURB OR BARRIER
A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SRUFACE.

SECTION 406.2 - COUNTER SLOPE
COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.

SECTION 406.3 - SIDES OF CURB RAMPS
WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.

SECTION 406.4 - LANDINGS
LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MIMIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.

SECTION 406.6 - DIAGONAL CURB RAMPS
DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF THE DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

SECTION 406.7 - ISLANDS
RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIMUM BY 36 INCHES WIDE MINIMUM AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIMUM BY 36 INCH MINIMUM AREA SHALL BE ORIENTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.

ACCESSIBLE PARKING

SECTION 208.2.4 - VAN PARKING SPACES
FOR EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.

SECTION 502.2 - VEHICLE SPACES
CAR PARKING SPACES SHALL BE 96 INCHES WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 132 INCHES WIDE MINIMUM, SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE COMPLYING WITH 502.3.

SECTION 502.3 - ACCESS AISLE
ACCESS AISLES SERVING PARKING SPACES SHALL COMPLY WITH 502.3. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTEDTO SHARE A COMMON ACCESS AISLE.

SECTION 502.6 - IDENTIFICATION
PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE". SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

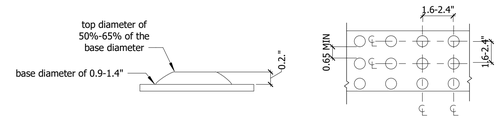
SECTION 503.3.1 & 503.3.2 - PASSENGER LOADING ZONES
ACCESS AISLES SERVING VEHICLE PULL-UP SPACES SHALL BE 60" WIDE MINIMUM. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE VEHICLE PULL-UP SPACES THEY SERVE.

SECTION 503.3 - ACCESS AISLE
PASSENGER LOADING ZONES SHALL PROVIDE ACCESS AISLES COMPLYINH WITH 503 ADJACENT TO THE VEHICLE PULL-UP SPACE. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY.

SECTION 504.5 - NOSINGS
THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/2 INCHES MAXIMUM OVER THE TREAD BELOW.

705 - DETECTABLE WARNINGS
DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES AND SHALL COMPLY WITH 705. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9" MINIMUM AND 1.4" MAXIMUM, A TOP DIAMETER OF 50% OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2". TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6" MINIMUM AND 2.4" MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65" MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

NOTE: THESE DRAWINGS ARE FOR GENERAL MOUNTING CLEARANCE REFERENCE. SEE PLANS FOR CONFIGURATIONS. ALL DIMENSIONS SHALL CONFORM TO ADA STANDARDS.



(a)
elevation
(enlarged)

(b)
plan

DETECTABLE WARNINGS - SECTION 705.1

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3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY: ____
DRAWN BY: LMH
CHECKED BY: NEB

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

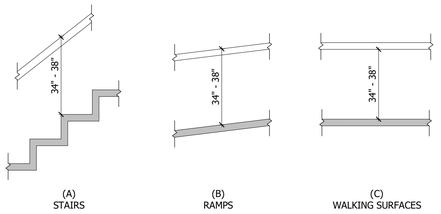
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

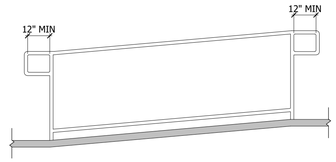
SHEET CONTENT:
ADA REQUIREMENTS

SHEET
A0.04
OF ___ SHEETS

JOB NO.
1509-00



HANDRAIL HEIGHTS - SECTION 505.4



TOP/BOTTOM HANDRAIL EXTENSION AT RAMPS - SECTION 505.10.1

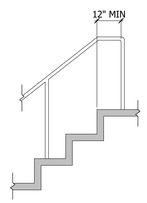
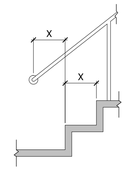


FIGURE 505.10.2



NOTE: X = TREAD DEPTH

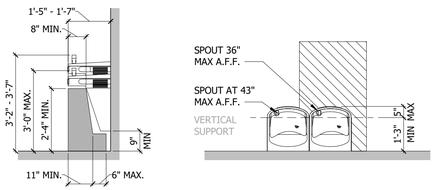
FIGURE 505.10.3

TOP/BOTTOM HANDRAIL EXT. AT STAIRS - SECTION 505.10.2 & 505.10.3

FIGURE 505.5

FIGURE 505.6

HANDRAIL CLEARANCE - SECTION 505.5 & 505.6



NOTE: EQUIPMENT NOT PERMITTED IN SHADED AREA.
MUST COMPLY WITH 305 AND 306 OF THE TAS

SPOUT LOCATION - SECTION 602.5

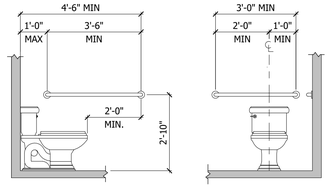


FIGURE 604.5.1

FIGURE 604.5.2

GRAB BARS SIDE & REAR WALL - SECTION 604.5.1 & 604.5.2

GENERAL SITE AND BUILDING ELEMENTS CONTINUED

SECTION 505.4 - HANDRAIL HEIGHT
TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VETICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.

SECTION 505.5 - CLEARANCE
CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES MINIMUM.

SECTION 505.6 - GRIPPING SURFACE
HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES MINIMUM BEOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.

SECTION 505.7.2 & 609.2.2 - NON-CURCULAR SECTIONS
HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 6 1/4 INCHES MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2 1/4 INCHES MAXIMUM. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVEA CROSS-SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM.

SECTION 505.10.1 - TOP AND BOTTOM EXTENTION AT RAMPS
RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM RAMP RUNS. EXTENTIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

SECTION 505.10.2 - TOP EXTENTION AT STAIRS
AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENTIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

SECTION 505.10.3 - BOTTOM EXTENTION AT STAIRS
AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

PLUMBING ELEMENTS AND FACILITIES

SECTION 602.5 - SPOUT LOCATION
THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS. UNITS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH AND CENTERED ON THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED. SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTION 604.2 - LOCATION
THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.

SECTION 604.31 - CLEARANCE
CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL.

SECTION 604.51 - SIDE WALL GRAB BAR AT WATER CLOSETS
THE SIDE WALL GRAB BAR SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL.

SECTION 604.5.2 - REAR WALL GRAB BAR AT WATER CLOSETS
THE REAR WALL GRAB BAR SHALL BE 36 INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE.

HAND RAILS AND GRAB BARS

SECTION 609.3 SPACING
THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALLS BE 1 1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

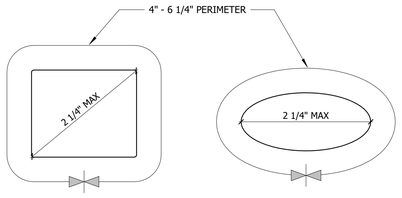
SECTION 609.2.1 & 505.7.1 CIRCULAR CROSS SECTION
GRAB BARS AND HANDRAIL GRIPPING SURFACES WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND 2" MAXIMUM.

SECTIONS 405.5 - CLEAR WIDTH
THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36" MINIMUM.

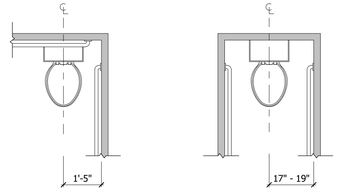
SECTION 609.8 - STRUCTURAL STRENGTH
ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

SECTION 505.8 & 609.5 - SURFACE HAZARDS
HANDRAILS, GRAB BARS, AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS AND HANDRAILS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

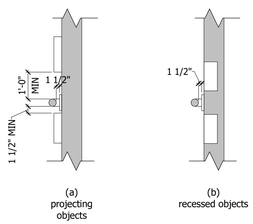
NOTE: THESE DRAWINGS ARE FOR GENERAL MOUNTING CLEARANCE REFERENCE. SEE PLANS FOR CONFIGURATIONS. ALL DIMENSIONS SHALL CONFORM TO ADA STANDARDS.



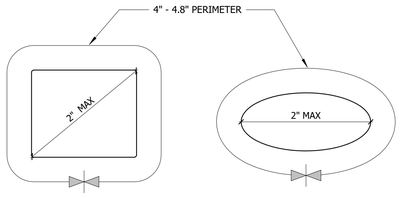
HANDRAIL NON-CIRCULAR CROSS SECTION - SECTION 505.7.2



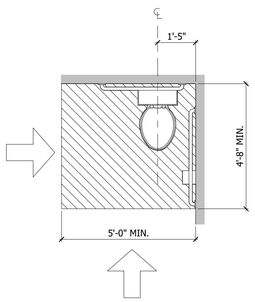
WATER CLOSET LOCATION - SECTION 604.2



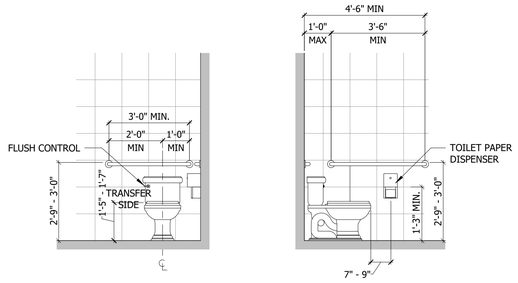
SPACING OF GRAB BARS - SECTION 609.3



GRAB BAR NON-CIRCULAR CROSS SECTION - SECTION 609.2.2



CLEAR FLOOR SPACE



HEIGHT REQUIREMENTS

SIZE OF CLEARANCE AT WATER CLOSETS - SECTION 604.3.1, 604.5.1 & 604.5.2

The Holt Group, Inc.
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Palm Desert CA 92211
(760) 427-8533

NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

ADVANCED ARCHITECTURE TIMOTHY M HOLT
MAY 2023 RENEWAL DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ADA REQUIREMENTS

SHEET
A0.05
OF ___ SHEETS
JOB NO.
1509-00

KEYNOTES	XXX
343	FIRE DEPARTMENT CONNECTION
357	PROVIDE CBC COMPLIANT RECESSED KNOXBOX - BRACE WALL AS NECESSARY

LIFE SAFETY LEGEND

TRAVEL DISTANCE	●- - -	GROUP A-3 OCCUPANCY	☰
1-HOUR FIRE RATED DEMISING WALL	🟥	GROUP B OCCUPANCY	‖
GROUP S-2 OCCUPANCY	▨	GROUP R-3 OCCUPANCY	▩

FIRE EXTINGUISHER LEGEND

PROPOSED FIRE EXTINGUISHER CABINET - TRAVEL DISTANCE TO EXTINGUISHERS IS 75' MAXIMUM

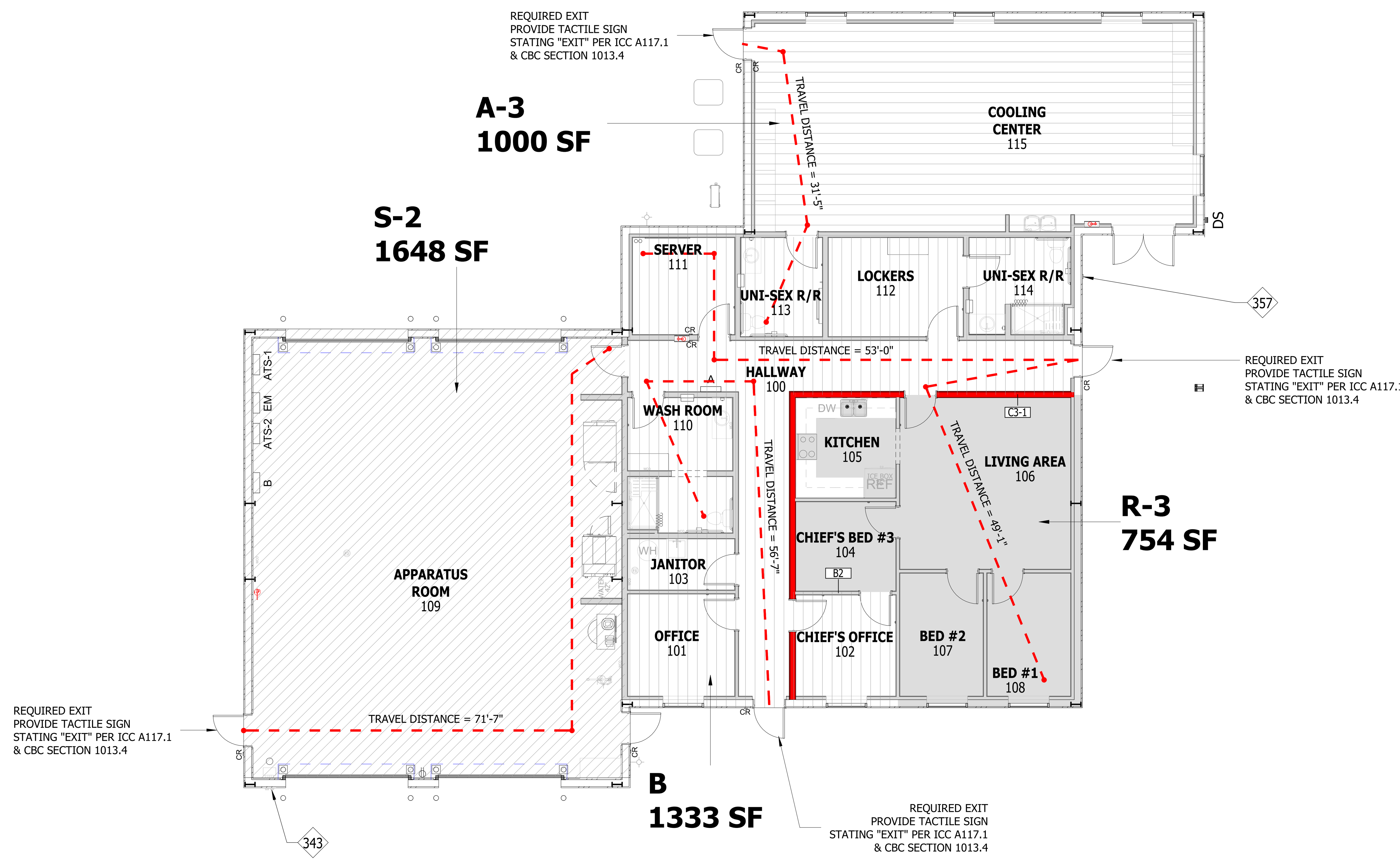
PROPOSED FIRE EXTINGUISHER - TRAVEL DISTANCE TO EXTINGUISHERS IS 75' MAXIMUM

FIRE EXTINGUISHER TO BE 10LB, ABC DRY CHEMICAL
TOP OF FIRE EXTINGUISHER TO BE MOUNTED BELOW 48" A.F.F.
INSTALL EXTINGUISHERS PER NFPA 10

6

STRUCTURAL NOTE FOR CONSTRUCTION TYPE IIA

***BUILDING STRUCTURE TO HAVE A FIRE PROTECTIVE COATING APPLIED TO ACHIEVE A 1-HR RATING**



01 LIFE SAFETY PLAN

1/8" = 1'-0"

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1	50% REVIEW SET		2022/01/21
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4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08
6	PERMIT REV 2		2022/08/15

DESIGN BY:

DRAWN BY: LMH

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LICENCED ARCHITECT
TIMOTHY M HOLT
C-12576
MAY 2023
RENEWAL DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

Timothy M. Holt

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

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05 - 31 - 2023
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SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
LIFE SAFETY PLAN

SHEET
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OF ___ SHEETS

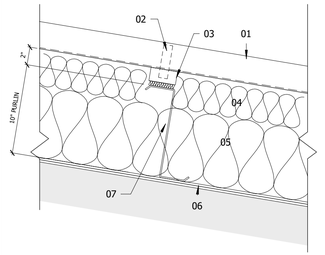
JOB NO.
1509-00

WALL INSULATION SYSTEM INFORMATION

FIBERGLASS INSULATION WITH THE CORRECT R-VALUE SHOWN IS TO FILL GIRT CAVITY. THERMAL BREAK TAPE WILL BE APPLIED TO THE OUTSIDE OF GIRTS. INSULATION HANGERS ARE REQUIRED FOR WALLS TO HOLD THE FIBERGLASS IN PLACE TEMPORARILY BEFORE THE LINER FABRIC IS INSTALLED OVER THE GIRTS ON THE INSIDE OF THE BUILDING. FABRIC WILL BE PROVIEDED TO COVER ONE BAY IN WIDTH AND ATTACH OVER THE GIRTS, SECURED BY A BANDING GRID. FLAME SPREAD AND SMOKE CONTRIBUTION TO MEET UL723/ASTM E84. THE INSTALLED WALL SYSTEM IS TO PROVIDE A CONTINUOUS VAPOR RETARDER.

ROOF INSULATION SYSTEM INFORMATION

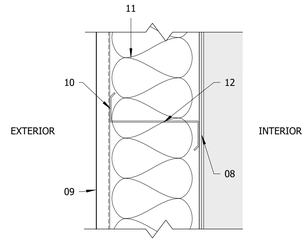
FIBERGLASS INSULATION WITH THE CORRECT R-VALUE SHOWN IS TO FILL PURLIN CAVITY AND FIBERGLASS INSULATION WITH THE CORRECT R-VALUE SHOWN TO BE PLACED ATOP PURLINS CONSISTS OF TWO LAYERS. NOMINAL EXTRUDED POLYSTYRENE THERMAL BLOCKS, THREE INCHES WIDE WITH AN R-VALUE OF 3 WILL BE APPLIED TO THE TOP OF THE PURLINS. FABRIC WILL BE PROVIED TO COVER ONE BAY IN WIDTH AND ATTACH UNDERNEATH THE PURLIN (INSIDE GIRT), SECURED BY A BANDING GRID. A SAFETY BAND WILL BE INSTALLED PARALLEL TO EACH FRAME AND 16" FROM THE FRAME, SECURED BY SAFETY CLIPS. FLAME SPREAD AND SMOKE CONTRIBUTION TO MEET UL723/ASTM E84. THE INSTALLED ROOF SYSTEM IS TO PROVIDE A CONTINUOUS VAPOR RETARDER.



01. STANDING SEAM ROOF PANEL
02. STANDOFF CLIP
03. MIN R3 XPS THERMAL BLOCK
04. MIN R-13 (3.5") UNFACED BATT INSULATION CONTINUOUS OVER PURLINS
05. MIN R-25 (8") UNFACED BATT INSULATION BETWEEN PURLINS
06. CONTINUOUS INSULATION LINER WITH BANDING GRID
07. PEMB ROOF PURLIN - 10"

ROOF ASSEMBLIES

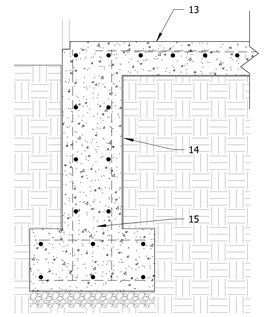
OVERALL U FACTOR = 0.026



08 CONTINUOUS INSULATION LINER WITH BANDING GRID
09. METAL WALL PANEL
10. THERMAL BREAK TAPE
11. MIN R-25 (8") UNFACED BATT INSULATION (CONTINUOUS)
12. PEMB WALL GIRT - 8"
* DOORS U-FACTOR: SWINGING 0.37, GARAGE <14% 0.31
* WINDOWS U-FACTOR: FIXED 0.50, OPERABLE 0.65

WALL ASSEMBLIES

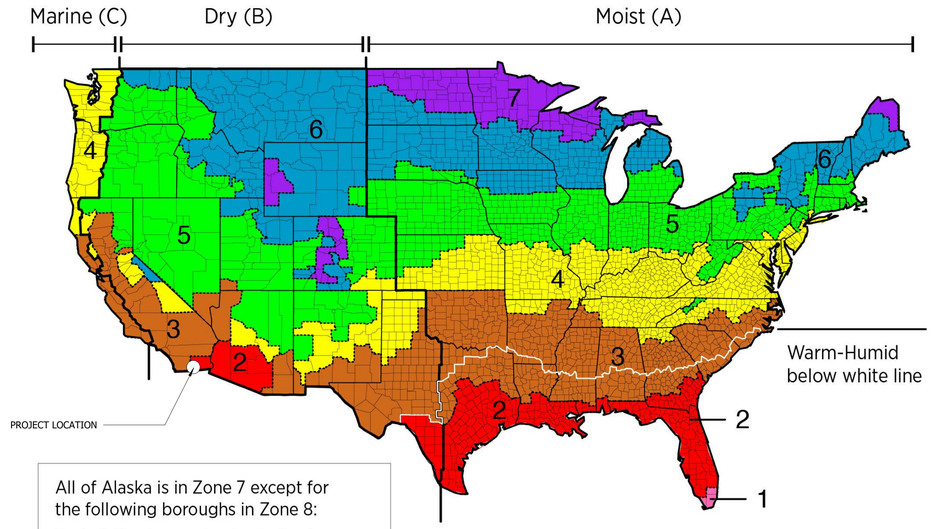
OVERALL U FACTOR = 0.040



13. FINISH FLOOR
14. VAPOR BARRIER
15. STRUCTURAL FOUNDATION

FLOOR ASSEMBLIES

CLIMATE ZONE 2



All of Alaska is in Zone 7 except for the following boroughs in Zone 8:

Bethel, Northwest Arctic, Dellingham, Southeast Fairbanks, Fairbanks N. Star, Wade Hampton, Nome, Yukon-Koyukuk, North Slope

Zone 1 includes Hawaii, Guam, Puerto Rico, and the Virgin Islands

IECC CLIMATE ZONE MAP

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3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

ADVANCED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:

THERMAL & MOISTURE PROTECTION

SHEET A0.21

OF ___ SHEETS

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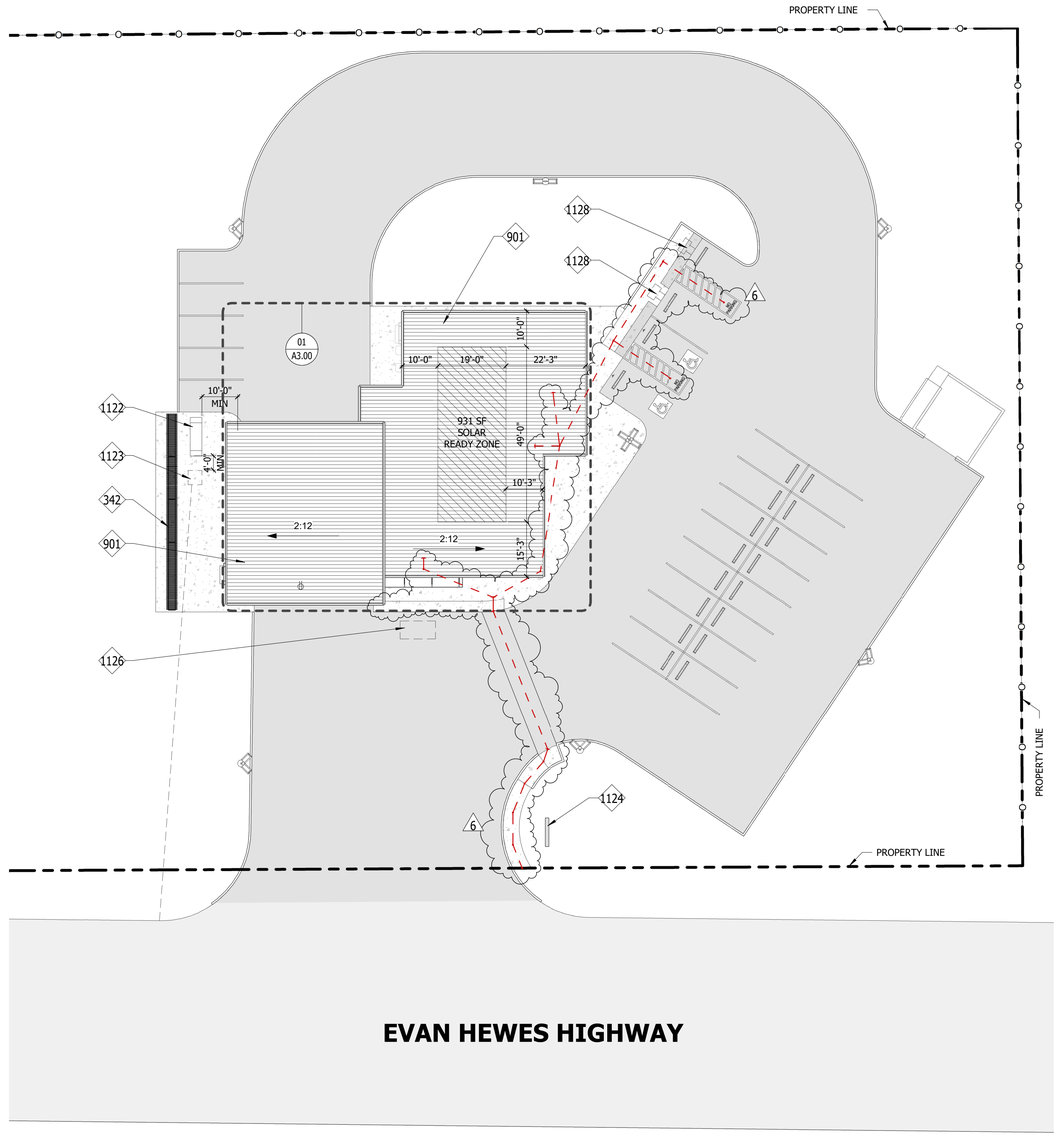

N

01 ARCHITECTURAL SITE PLAN

1" = 20'-0"

KEYNOTES (XXX)

342	STEEL RACK FOR DRYING FIRE HOSE - SECURELY ATTACH TO CONCRETE SLAB
901	MP-1: METAL ROOF PANEL - RE: FINISH MATERIALS SCHEDULE
1122	GENERATOR PAD & DIESEL GENERATOR - RE: MEP DRAWINGS
1123	TRANSFORMER PAD LOCATION - RE: ELECTRICAL DRAWINGS
1124	PROVIDE POWER TO MONUMENT SIGN - RE: MEP & CIVIL DRAWINGS
1126	SAND AND OIL INTERCEPTOR - RE: PLUMBING DRAWINGS
1128	FUTURE ELECTRIC VEHICLE CHARGING STATION

GENERAL SITE NOTES

ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 1:48 SLOPE IN ANY DIRECTION PER CBC 11B-302 & 11B-502.4

THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 PER CBC 11B-403.3

THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 PER CBC 11B-403.3

*REFER TO CIVIL DRAWINGS FOR FUTHER SITE INFORMATION

EXCAVATION & TRENCHING NOTES

CALL 811 PRIOR TO START OF EXCAVATION - WRITE TICKET NUMBER ON EXCAVATION PERMIT

ALL SUB-CONTRACTORS PERFORMING GROUND DISTURBANCES SHALL HAVE A G.C. SUPERINTENDENT PRESENT WHILE WORK IS BEING PERFORMED

UTILITY MARKING FLAGS INSTALLED EVERY 8'-0" MIN. IMMEDIATELY UPON BACKFILLING OF LINE, CONDUIT, & PIPE

A SPOTTER MUST BE UTILIZED WHILE TRENCHING AND EXCAVATING

LINE TAPE OR LINE TRACE MUST BE INSTALLED PRIOR TO BACKFILLING LINE, CONDUIT, & PIPE

SUB-CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY/UNDERGROUND LINE FLAGS AND MUST ENSURE THEY ARE PRESENT FOR THE DURATION OF THE PROJECT

SUB-CONTRACTOR TO MARK UNDERGROUND LINES WITH FLOURESCENT SPRAY PAINT

SUB-CONTRACTOR MUST COMPLETE JSA FORM AND GAIN G.C. SUPERINTENDENT APPROVAL PRIOR TO EXCAVATION/TRENCHING

ALL LINE CROSSINGS MUST BE EXCAVATED AND DAYLIGHTED BY HAND OR HYDROVAC

SUB-CONTRACTOR TO UPDATE AS-BUILT DRAWING IMMEDIATELY TO RECORD LOCATIONS OF LINES

ALL PRIVATE LINES MUST BE MARKED BY OWNER PRIOR TO EXCAVATING & TRENCHING

SOLAR READY ZONE NOTES

TOTAL ROOF AREA = (3,933 SF + 2,270 SF) = 6,203 SF
SOLAR READY REQUIREMENT = 15%

TOTAL REQUIRED SOLAR READY AREA = 930 SF
TOTAL PROVIDED SOLAR READY AREA = **931 SF**

6

SITE PLAN LEGEND

ACCESSIBLE PATH

NEW FENCE

ROOF SOLAR READY AREA

PROPOSED LIGHT POLE

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(760) 427-8533

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1	50% REVIEW SET		2022/01/21
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08
6	PERMIT REV 2		2022/08/15

DESIGN BY: ____

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

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DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:

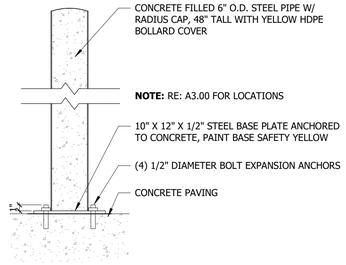
OVERALL SITE PLAN

SHEET A1.00

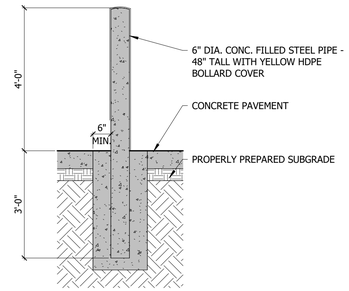
OF ___ SHEETS

JOB NO. 1509-00

KEYNOTES XXX



12 INTERIOR BOLT DOWN BOLLARD
1" = 1'-0"



08 BOLLARD DETAIL
1/2" = 1'-0"

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(760) 427-8533

NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M HOLT C-12576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

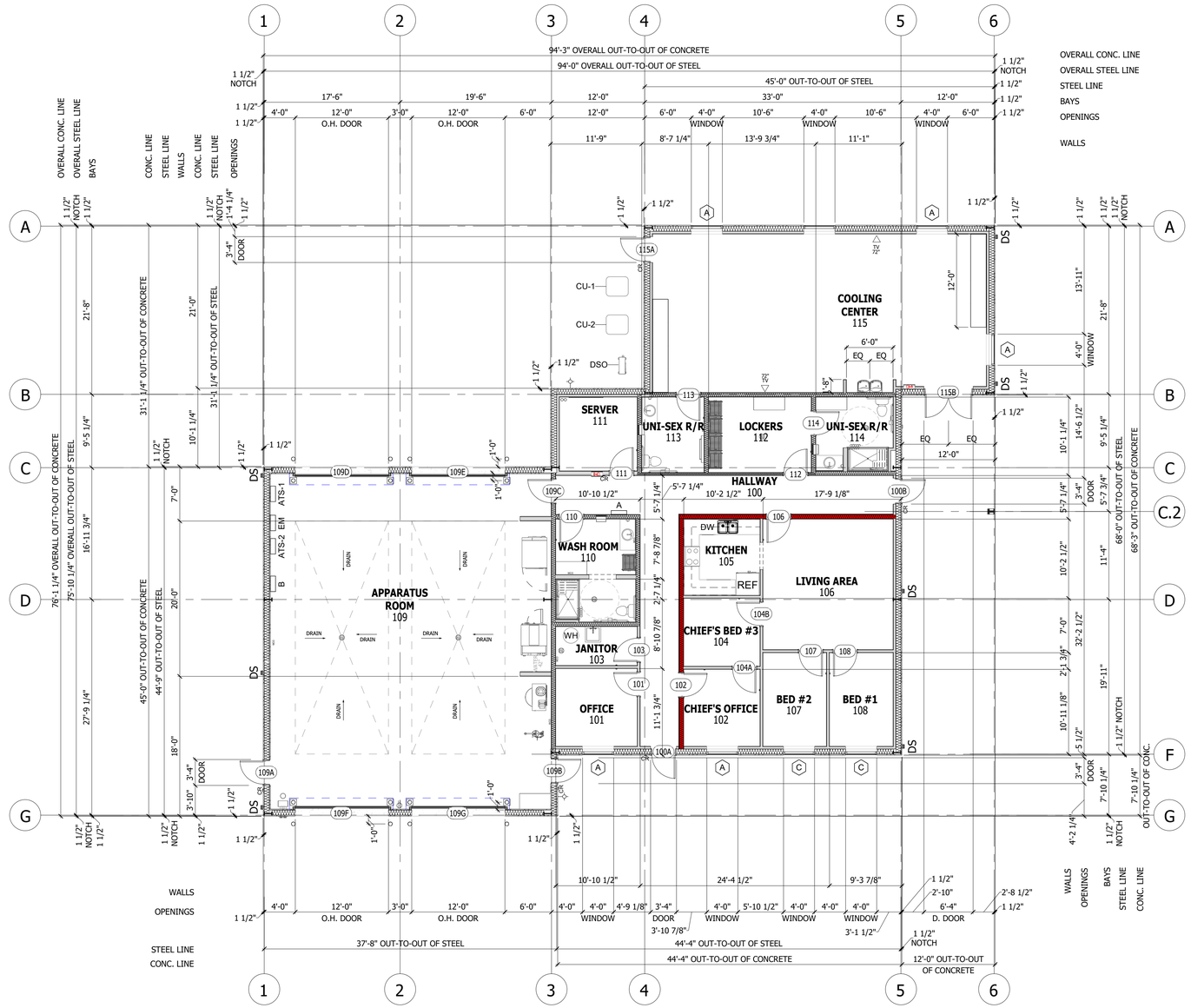
SHEET CONTENT:

SITE PLAN DETAILS

SHEET
A1.10
OF ___ SHEETS

JOB NO.
1509-00

*RE: A3.10 FOR WALL ID TAGS



N

01 FLOOR PLAN - DIMENSIONS

1/8" = 1'-0"

WALL TYPE

NEW WALL

NEW WALL WITH INSULATION

FIRE EXTINGUISHER LEGEND

PROPOSED FIRE EXTINGUISHER CABINET - TRAVEL DISTANCE TO EXTINGUISHERS IS 75' MAXIMUM

PROPOSED FIRE EXTINGUISHER - TRAVEL DISTANCE TO EXTINGUISHERS IS 75' MAXIMUM

FIRE EXTINGUISHER TO BE 10LB, ABC DRY CHEMICAL
TOP OF FIRE EXTINGUISHER TO BE MOUNTED BELOW 48" A.F.F.
INSTALL EXTINGUISHERS PER NFPA 10

ENTRANCE & REQUIRED EXIT DOOR NOTES

ENTRANCES:
DOOR IS AT GRADE. PROVIDE HANDICAP SIGNAGE AT INTERIOR AND EXTERIOR DISPLAYING INTERNATIONAL SYMBOL AND WORDING INDICATING ACCESSIBILITY. MAINTAIN SAME ELEVATION BOTH SIDES OF THRESHOLD PER IBC SECTION 1010.1.7. THRESHOLD MUST NOT EXCEED 1/2" IN HEIGHT.

EXITS:
MAINTAIN SAME ELEVATION BOTH SIDES OF THRESHOLD PER IBC SECTION 1010.1.7. THRESHOLD MUST NOT EXCEED 1/2" IN HEIGHT.

STRUCTURAL NOTE

BAY DIMENSIONS AND COLUMN LOCATIONS ARE SHOWN FOR REFERENCE ONLY - RE: PEMB DRAWINGS FOR EXACT SIZES AND BUILDING SPECIFICATIONS

***BUILDING STRUCTURE TO HAVE A FIRE PROTECTIVE COATING APPLIED TO ACHIEVE A 1-HR RATING**

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4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08
6	PERMIT REV 2		2022/08/15

DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
FLOOR PLAN - DIMENSIONS

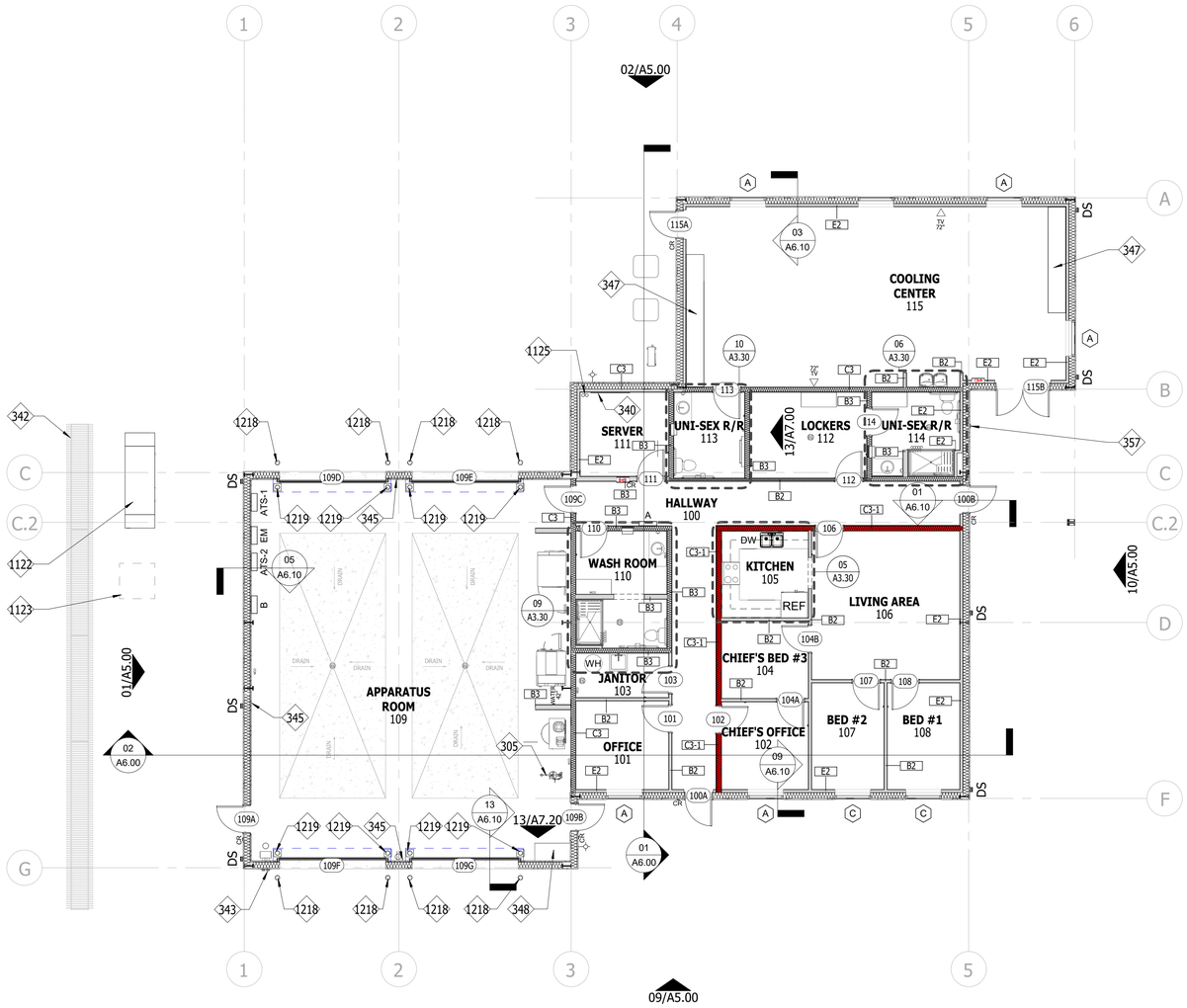
SHEET A3.00
OF ___ SHEETS

JOB NO. 1509-00

KEYNOTES	XXX
305	PROVIDE NEW COMBO EYE-WASH/DRENCH STATION WITH DRAIN - TO COMPLY WITH ALL OSHA REQUIREMENTS - RE:MEP
340	PROVIDE 4'x8'x3/4" FIRE RESISTANT PLYWOOD TO 8'-0" A.F.F. FOR TELEPHONE TERMINAL BOARD "TTB" - REFER TO PLAN FOR LOCATION
342	STEEL RACK FOR DRYING FIRE HOSE - SECURELY ATTACH TO CONCRETE SLAB
343	FIRE DEPARTMENT CONNECTION
345	LINER PANEL TO ROOF - RE: FINISH MATERIALS SCHEDULE
347	PROVIDE TALL CABINETS FOR STORING TABLES AND CHAIRS - 80" TALL BY 24" DEEP BY 144" LONG
348	PROVIDE COUNTERTOP AND LOWER CABINETS - 24" DEEP BY 34" TALL BY 48" WIDE
357	PROVIDE CBC COMPLIANT RECESSED KNOXBOX - BRACE WALL AS NECESSARY
1122	GENERATOR PAD & DIESEL GENERATOR - RE: MEP DRAWINGS
1123	TRANSFORMER PAD LOCATION - RE: ELECTRICAL DRAWINGS
1125	PROVIDE (2) 4" CONDUITS FOR AT&T/SPECTRUM - RE: ELECTRICAL DRAWINGS
1218	PROVIDE 6" DIA. CONC. FILLED SCH 40 PIPE; HDPE YELLOW PLASTIC COVER - RE: 08/A1.10
1219	CONCRETE FILLED 6" O.D. STEEL PIPE W/ RADIUS CAP, 48" TALL WITH YELLOW HDPE BOLLARD COVER WITH 10" X 12" X 1/2" STEEL BASE PLATE ANCHORED TO CONCRETE BY (4) 1/2" DIAMETER BOLT EXPANSION ANCHORS, PAINT BASE SAFETY YELLOW - RE: 12/A1.10

ELECTRICAL LEGEND	X" = LOCATION A.F.F.
TV ▽	FOR ALL ELECTRICAL INFORMATION REFERENCE ELECTRICAL DRAWINGS

GENERAL NOTES:
1) ALL OUTLETS PLACED AT 18" ABOVE FINISH FLOORS UNLESS INDICATED OTHERWISE
2) ALL OUTLET PLATES AND SWITCH PLATES IN GYP WALLS TO BE WHITE



N

01 FLOOR PLAN - ANNOTATIONS

1/8" = 1'-0"

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5	PERMIT REV 1		2022/07/08

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

ADVANCED ARCHITECTURE TIMOTHY M. HOLT STATE OF CALIFORNIA MAY 2023 RENEWAL DATE

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

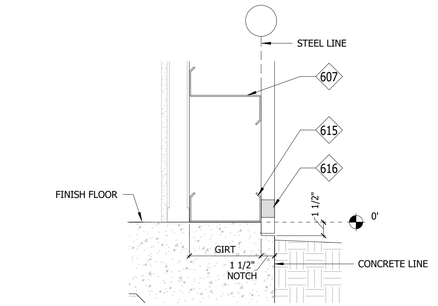
SHEET CONTENT:
FLOOR PLAN - ANNOTATIONS

SHEET A3.10
OF ___ SHEETS
JOB NO. 1509-00

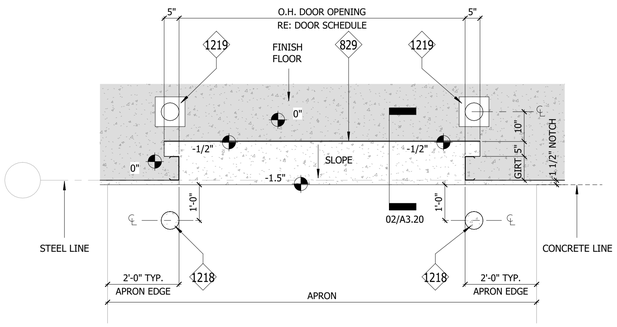
KEYNOTES	XXX
506	METAL DOWNSPOUT - TIE DOWNSPOUTS INTO CIVIL DRAINS - RE: CIVIL DRAWINGS
607	GIRTS (TYP.) - RE: PEMB DRAWINGS
615	BASE TRIM - RE: PEMB DRAWINGS
616	CLOSURE STRIP - RE: PEMB DRAWINGS
823	OVERHEAD DOOR GUIDE
825	OVERHEAD DOOR
829	TOOLED CHAMFERED EDGE, 1/4"
1125	PROVIDE (2) 4" CONDUITS FOR AT&T/SPECTRUM - RE: ELECTRICAL DRAWINGS
1218	PROVIDE 6" DIA. CONC. FILLED SCH 40 PIPE; HDPE YELLOW PLASTIC COVER - RE: 08/A1.10
1219	CONCRETE FILLED 6" O.D. STEEL PIPE W/ RADIUS CAP, 48" TALL WITH YELLOW HDPE BOLLARD COVER WITH 10" X 12" X 1/2" STEEL BASE PLATE ANCHORED TO CONCRETE BY (4) 1/2" DIAMETER BOLT EXPANSION ANCHORS, PAINT BASE SAFETY YELLOW - RE: 12/A1.10

FOUNDATION NOTES

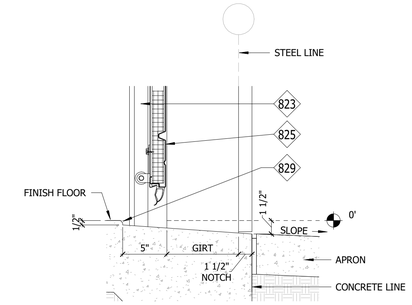
-ALL DIMENSIONS MEASURED FROM OUT-TO-OUT OF STEEL LINE U.N.O.
-WALL CLEANOUTS SHOWN IN GENERAL LOCATIONS ONLY - LOCATION TO MEET ALL APPLICABLE CODES
-PROVIDE FLOOR DRAINS WHERE INDICATED ON PLUMBING DRAWINGS - T.O. GRATE TO BE FLUSH WITH T.O. FLOOR FINISH



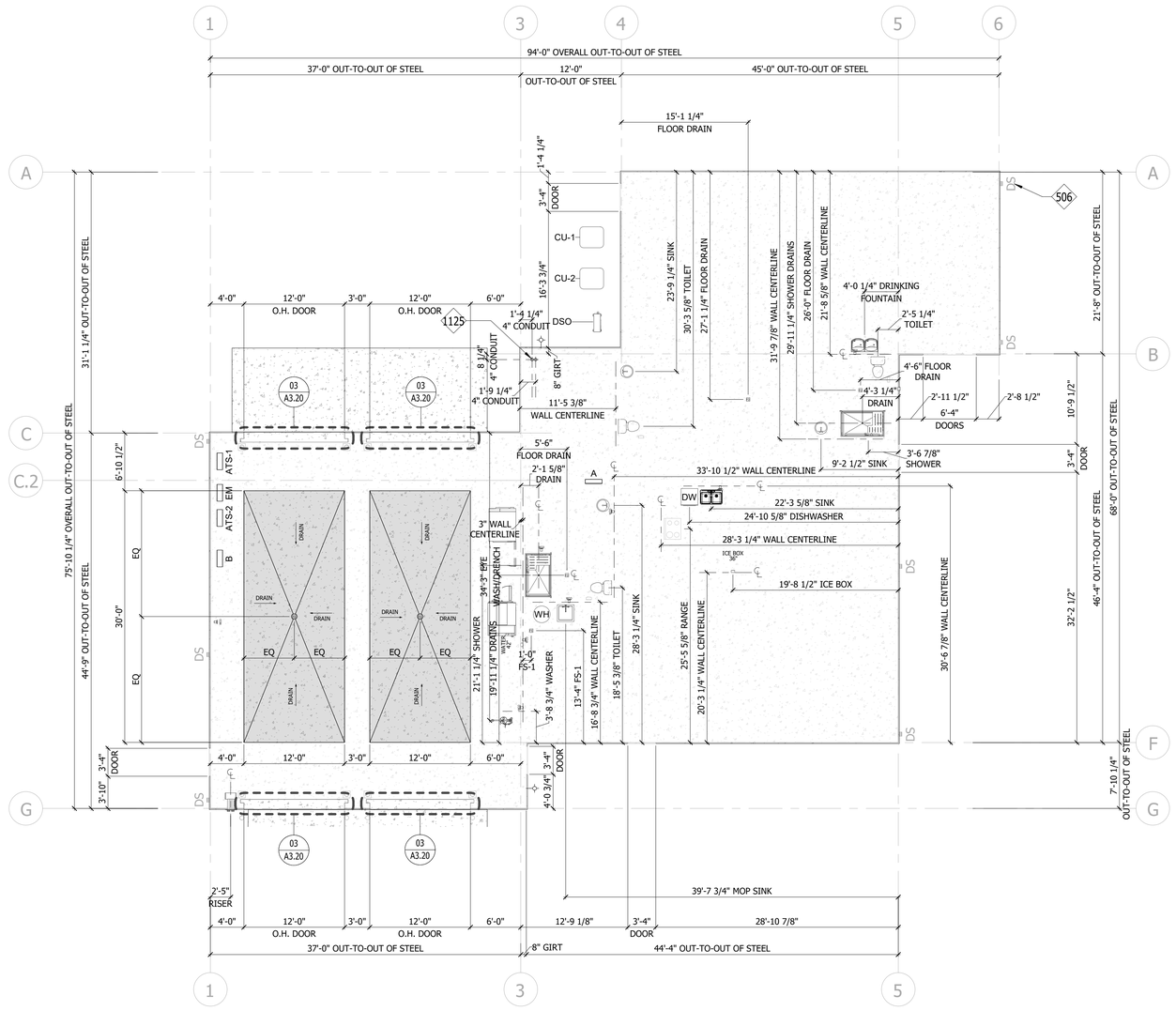
04 CONCRETE NOTCH DETAIL
1 1/2" = 1'-0"



03 O.H. DOOR CONCRETE PLAN
1/2" = 1'-0"



02 O.H. DOOR SILL
1 1/2" = 1'-0"



01 ARCHITECTURAL FOUNDATION PLAN
1/8" = 1'-0"

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DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENSED ARCHITECT TIMOTHY M. HOLT
MAY 2023 RENEWAL DATE
STATE OF CALIFORNIA

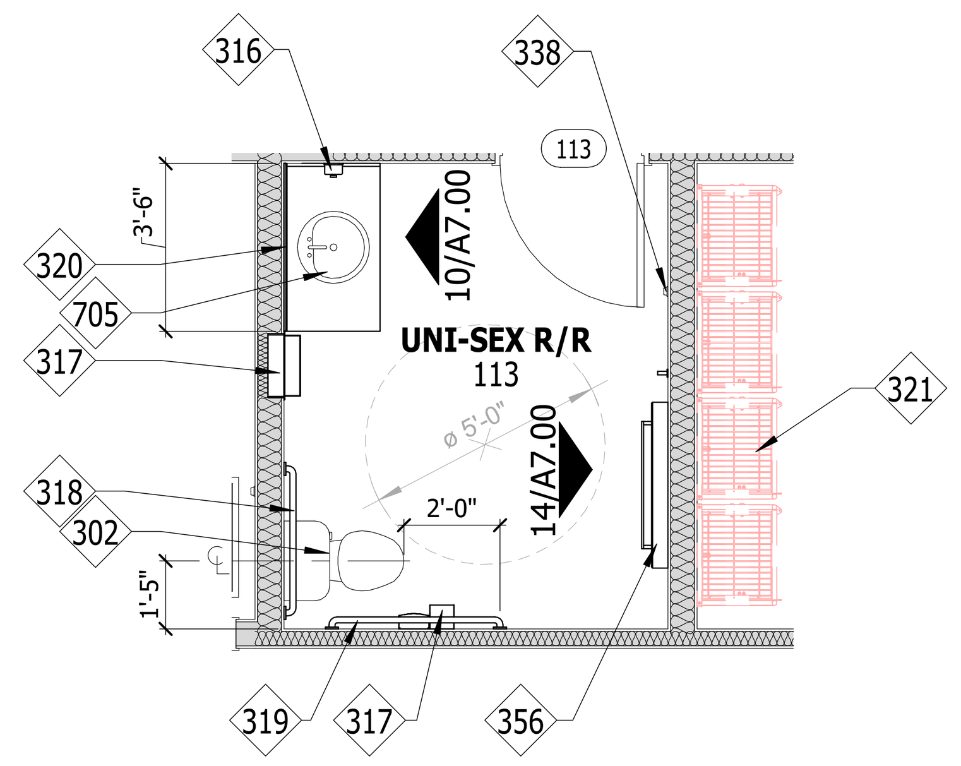
PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

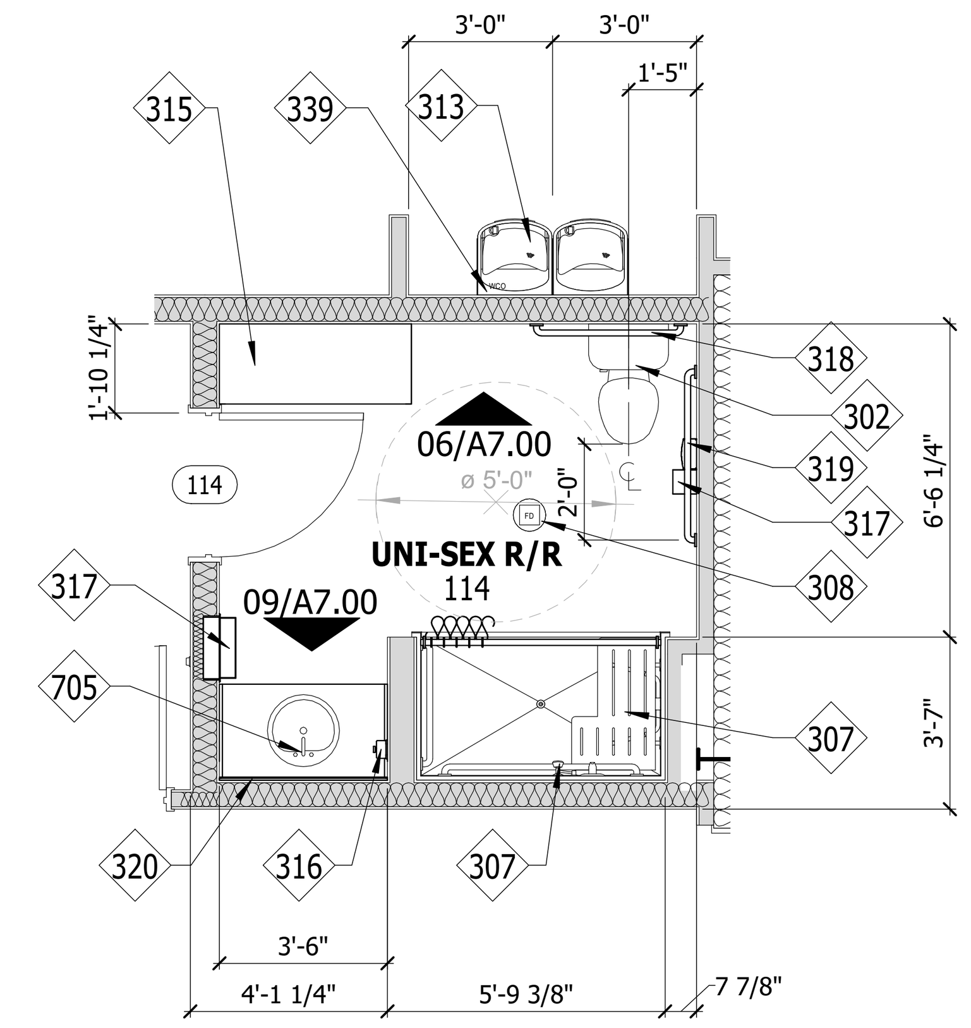
PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ARCHITECTURAL FOUNDATION PLAN

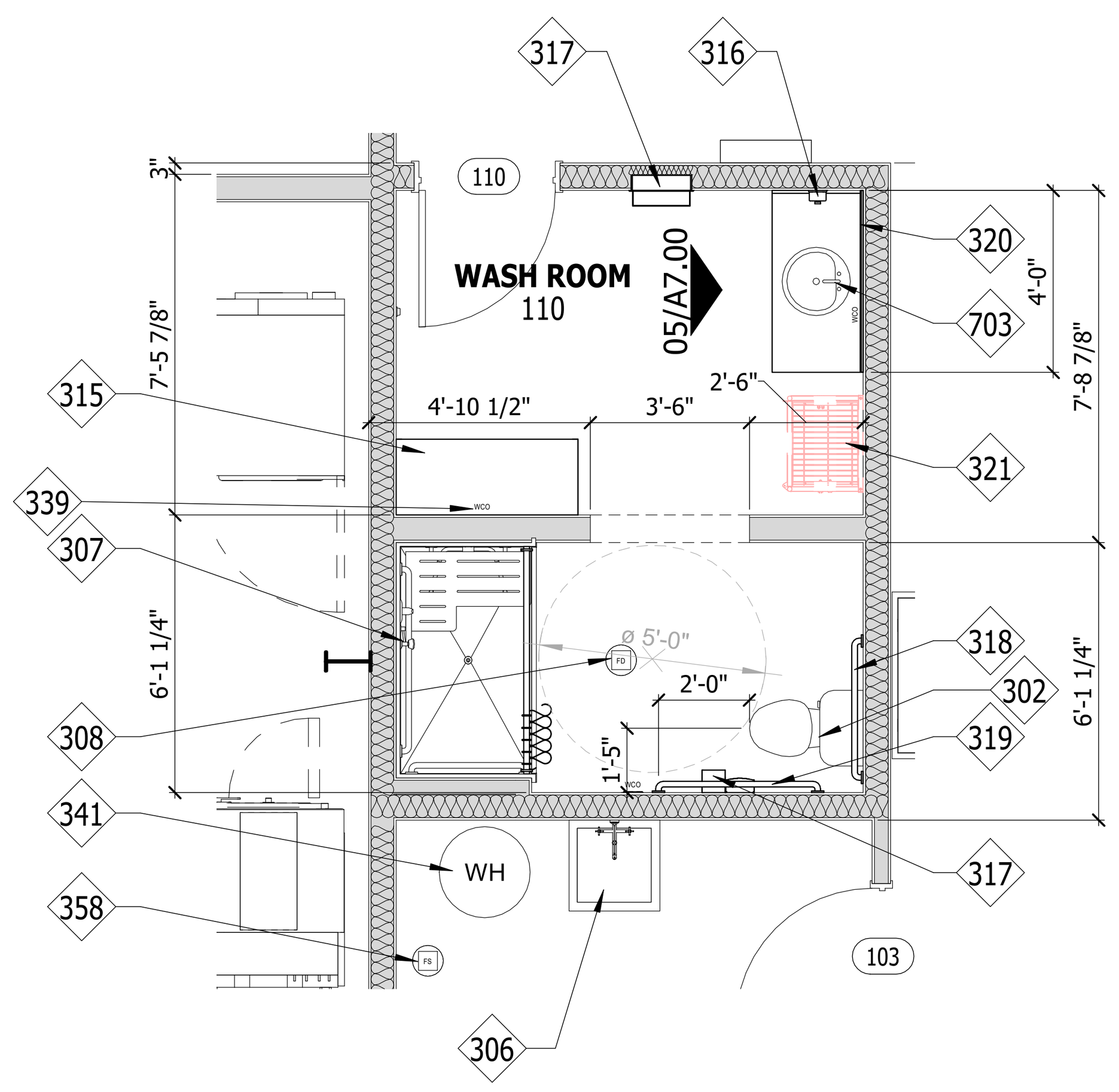
SHEET
A3.20
OF ___ SHEETS
JOB NO.
1509-00



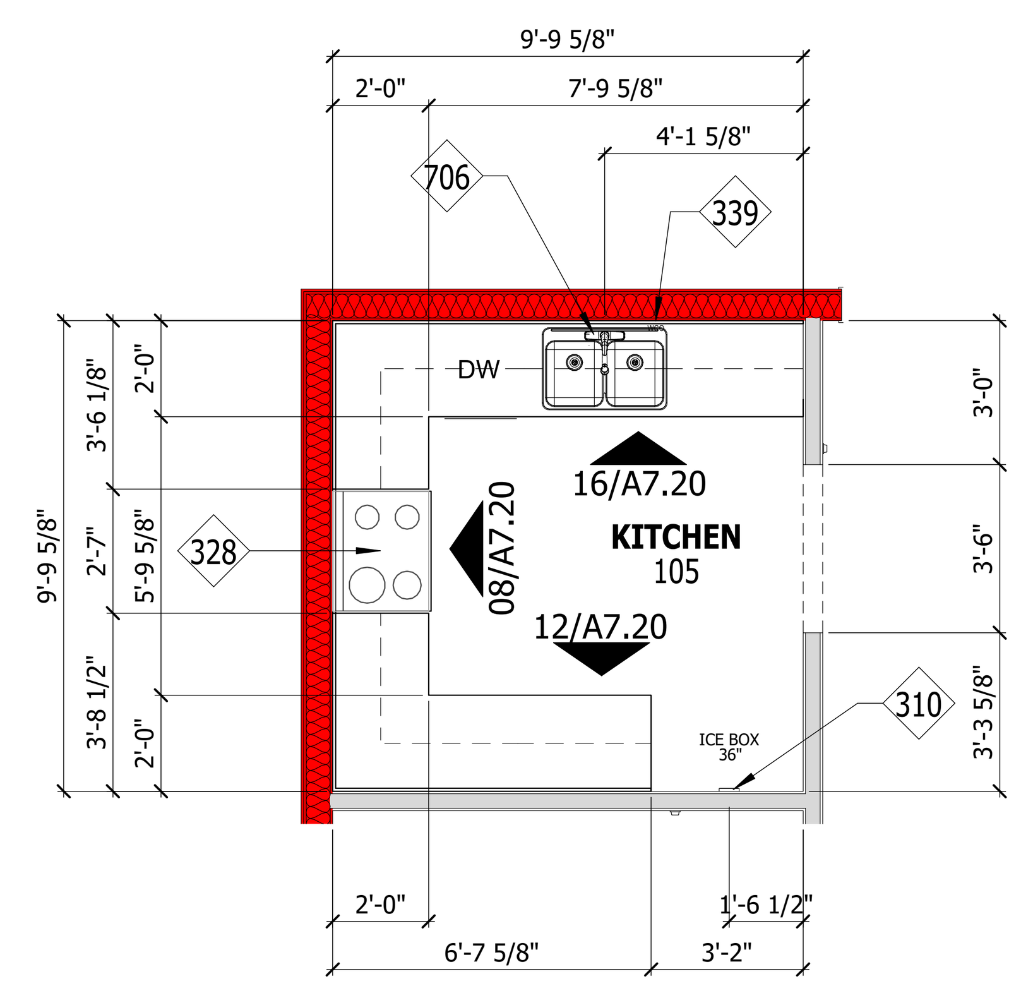
10 ENLARGED UNI-SEX R/R 113 PLAN
1/4" = 1'-0"



06 ENLARGED UNI-SEX R/R 114 PLAN
1/4" = 1'-0"



09 ENLARGED WASH ROOM 110 PLAN
1/4" = 1'-0"



05 ENLARGED KITCHEN PLAN
1/4" = 1'-0"

KEYNOTES (XXX)

302	PROVIDE NEW ADA COMPLIANT FLOOR MOUNTED TANK TOILET RE:MEP
306	PROVIDE NEW 24"X24" MOLDED-STONE MOP SERVICE BASIN - SHALL HAVE BOTH HOT & COLD WATER SUPPLY AND A DRAIN RE:MEP
307	PROVIDE NEW ADA COMPLIANT PRE-FABRICATED ROLL-IN TYPE FIBERGLASS SHOWER COMPARTMENT WITH INTEGRATED BENCH, GRAB BARS, AND SPRAY HANDLE - RE:MEP - MUST COMPLY WITH CBC 11B-608.2.2
308	PROVIDE FLOOR DRAIN AT LOCATION SHOWN - RE: MEP
310	PROVIDE WATER CONNECTION AND REFRIGERATOR
313	PROVIDE ADA COMPLIANT BI-LEVEL DRINKING FOUNTAIN WITH CANE GUARD - COMPLY WITH ALL TITLE 24 PROVISIONS - RE: MEP
315	PROVIDE ADA COMPLIANT CHANGING BENCH 48" LONG X 22" DEEP X 18" HIGH WITH BACK SUPPORT MINIMUM 18 INCH HIGH ABOVE SEAT AND 2.5 INCH MAX FROM REAR EDGE OF THE SEAT
316	PROVIDE NEW SOAP DISPENSER
317	PROVIDE RECESSED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE
318	PROVIDE NEW 36" ADA GRAB BAR - BRACE WALL AS NECESSARY
319	PROVIDE NEW 42" ADA GRAB BAR - BRACE WALL AS NECESSARY
320	PROVIDE NEW 42"Wx36"H POLISHED PLATE GLASS MIRROR WITH STAINLESS STEEL FRAME
321	PROVIDE NEW TWO-TIER, 24"Wx20"Dx72"H GEARGRID FIRE STORAGE LOCKERS - FINISH: RED BARON - PROVIDE (2)2x BLOCKING FOR WALL LOCKER MOUNTS. PROVIDE SIMPSON WBAC CONNECTOR FROM BLOCKING TO STUDS. ATTACH LOCKER WALL MOUNT BRACKETS TOP AND BOTTOM AT 24" OC WITH 3/8" DIAMETER X2 1/2" LAG SCREWS
328	PROVIDED RANGE AND VENT HOOD AND PROPER CONNECTIONS - RE:MEP
338	DOOR STOP - RE: DOOR SCHEDULE
339	WALL CLEANOUT - RE: MEP
341	WATER HEATER - RE: MEP
356	PROVIDE ADA COMPLIANT BABY CHANGING STATION - BRACE WALL AS NECESSARY
358	FS-1: FLOOR SINK 1 - RE: MEP DRAWINGS
703	PROVIDE PLASTIC LAMINATE COUNTER TOP 4'-0" WIDE 24" DEEP 34" HIGH WITH 4" BACKSPLASH AND DROP IN SINK WITH ADA APRON - BRACE AS NECESSARY
705	PROVIDE PLASTIC LAMINATE COUNTER TOP 3'-6" WIDE 24" DEEP 34" HIGH WITH 4" BACKSPLASH AND DROP IN SINK WITH ADA APRON - BRACE AS NECESSARY
706	PROVIDE STAINLESS STEEL DOUBLE COMPARTMENT SINK WITH FAUCET & ADA COMPLIANT APRON

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DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT
TIMOTHY M HOLT
C-12576
MAY 2023
RENEWAL
DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

[illegible]

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

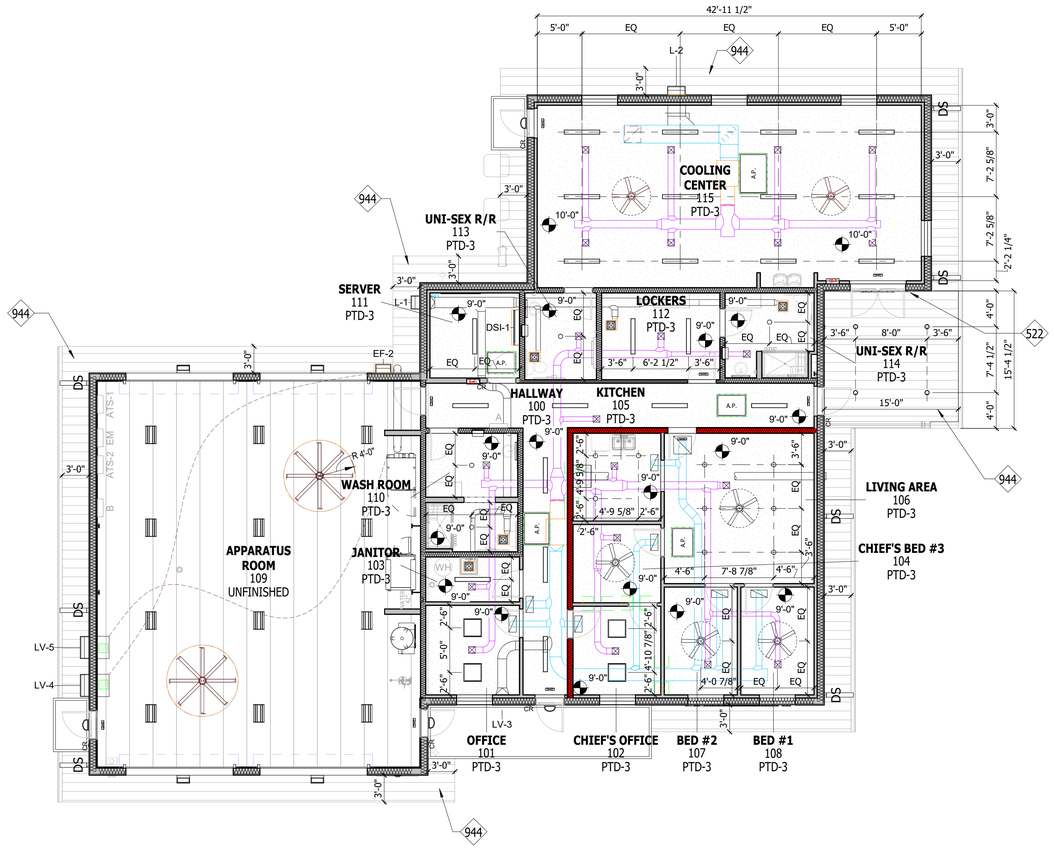
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ENLARGED PLANS

SHEET
A3.30
OF ___ SHEETS

JOB NO.
1509-00



N

01 REFLECTED CEILING PLAN

1/8" = 1'-0"

KEYNOTES ◇XXX

522	PROVIDE POWER AND BACKLITE "COUNTY COOLING CENTER" SIGN - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
944	MP-6: METAL SOFFIT PANEL - RE: FINISH MATERIALS SCHEDULE

REFLECTED CEILING PLAN LEGEND

- PTD GYP. BD. CEILING
- 4' LINEAR SURFACE MOUNTED LED LIGHT FIXTURE
- LED HIGH-BAY LIGHT FIXTURE
- 6" RECESSED CAN LIGHT
- NEW LED ILLUMINATED EGRESS SIGN
- EXTERIOR EGRESS LIGHT
- EXTERIOR WALL PACK
- EXHAUST FAN - CEILING MOUNTED
- SPOT ELEVATION X'-X" A.F.F.
- ACCESS PANEL (A.P.)
- CEILING FAN
- 8' DIAMETER HVLS FAN

REFLECTED CEILING PLAN NOTES

RE: ELECTRICAL DRAWINGS FOR LIGHTING INFORMATION

CEILING BRACING SHALL BE PROVIDED BY FOUR NO. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING

A STRUT (ADEQUATE TO RESIST THE VERTICAL COMPONENT FROM LATERAL LOADS) FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS OF THE ROOF ABOVE. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FT. ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6 FT. OF EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED

*WHEN EMERGENCY WARNING SYSTEMS OR FIRE ALARMS ARE PROVIDED, THERE SHALL BE APPROVED NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED, INSTALLED IN ACCORDANCE WITH THE NATIONAL STANDARDS PER SECTIONS 907.5.2.1.3 & 11B-702.1 IN THE FOLLOWING AREAS:

I) RESTROOM
II) OCCUPIED ROOMS WHERE AMBIENT NOISE IMPAIRS HEARING OF THE FIRE ALARM
III) MEETING ROOMS

*AUDIBLE AND VISUAL ALARMS WILL COMPLY WITH THE PROVISIONS OF TITLE 24 SECTION 907

ELECTRICAL EQUIPMENT SCHEDULE

IDENTIFICATION	COMMENTS
GENERATOR	RE: MEP DRAWINGS
ATS-1	RE: MEP DRAWINGS
B	RE: MEP DRAWINGS
A	RE: MEP DRAWINGS
EM	RE: MEP DRAWINGS
ATS-2	RE: MEP DRAWINGS

MECHANICAL EQUIPMENT SCHEDULE

IDENTIFICATION	COMMENTS
LV-3	RE: MECHANICAL DRAWINGS
L-1	RE: MECHANICAL DRAWINGS
DSO	RE: MECHANICAL DRAWINGS
CU-2	RE: MECHANICAL DRAWINGS
CU-1	RE: MECHANICAL DRAWINGS
DSI-1	RE: MECHANICAL DRAWINGS
LV-5	RE: MECHANICAL DRAWINGS
EF-2	RE: MECHANICAL DRAWINGS
L-2	RE: MECHANICAL DRAWINGS
LV-4	RE: MECHANICAL DRAWINGS

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DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT — STATE OF CALIFORNIA — MAY 2023 RENEWAL DATE

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

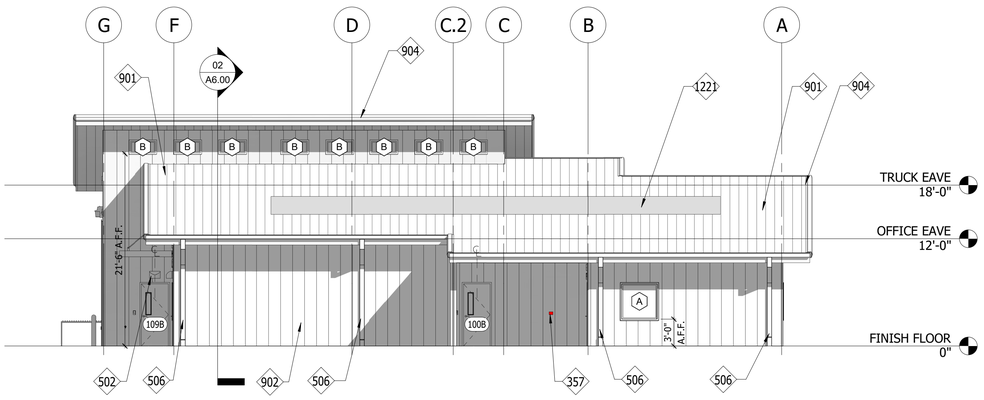
SHEET CONTENT:

REFLECTED CEILING PLAN

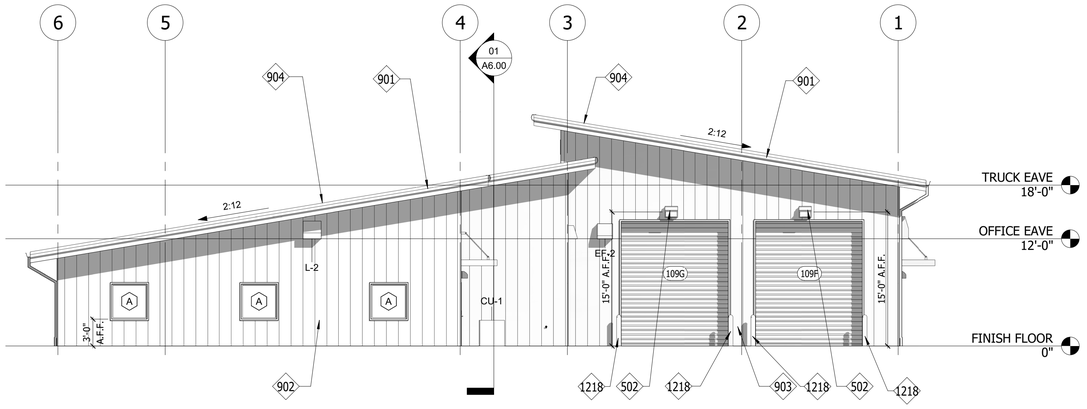
SHEET
A4.00
OF ___ SHEETS

JOB NO.
1509-00

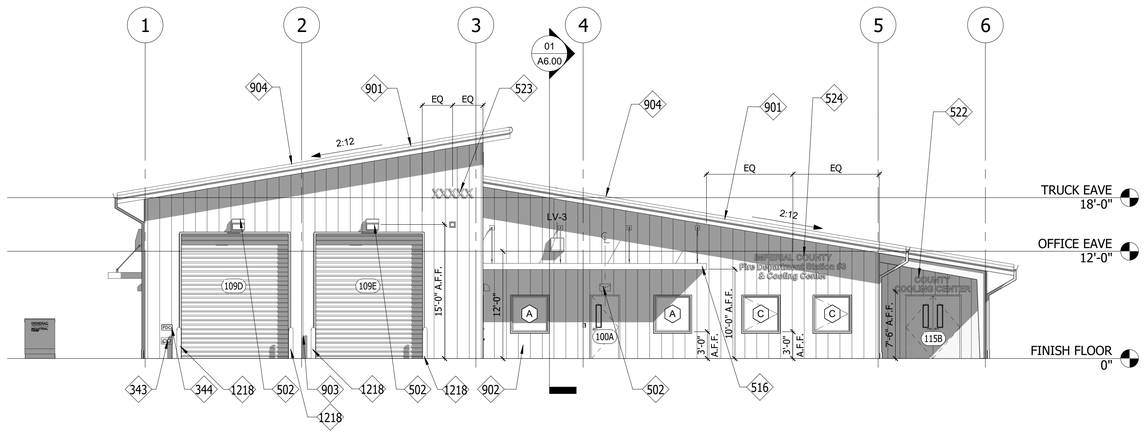
KEYNOTES	XXX
343	FIRE DEPARTMENT CONNECTION
344	FDC SIGN
357	PROVIDE CBC COMPLIANT RECESSED KNOXBOX - BRACE WALL AS NECESSARY
502	PROVIDE NEW LED WALL PACK - RE: MEP
506	METAL DOWNSPOUT - TIE DOWNSPOUTS INTO CIVIL DRAINS - RE: CIVIL DRAWINGS
511	METAL CANOPY 3'-0" PROJECTION x 5'-0" WIDE AT 9' A.F.F. - CENTER OVER DOOR
516	METAL CANOPY 6'-0" PROJECTION x 25'-0" WIDE AT 10' A.F.F.
522	PROVIDE POWER AND BACKLITE "COUNTY COOLING CENTER" SIGN - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
523	PROVIDE SIGN FOR BUILDING ADDRESS - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
524	PROVIDE POWER AND BACKLITE "IMPERIAL COUNTY Fire Department Station #3 & Cooling Center" SIGN - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
901	MP-1: METAL ROOF PANEL - RE: FINISH MATERIALS SCHEDULE
902	MP-2: METAL WALL PANEL - RE: FINISH MATERIALS SCHEDULE
903	MP-3: METAL TRIM AT RAKE, EAVE, GUTTERS, DOWNSPOUTS - RE: FINISH MATERIALS SCHEDULE
904	MP-4: METAL TRIM AT DOORS, WINDOWS, OPENINGS - RE: FINISH MATERIALS SCHEDULE
1122	GENERATOR PAD & DIESEL GENERATOR - RE: MEP DRAWINGS
1218	PROVIDE 6" DIA. CONC. FILLED SCH 40 PIPE; HDPE YELLOW PLASTIC COVER - RE: 08/A1.10
1221	SOLAR READY ZONE



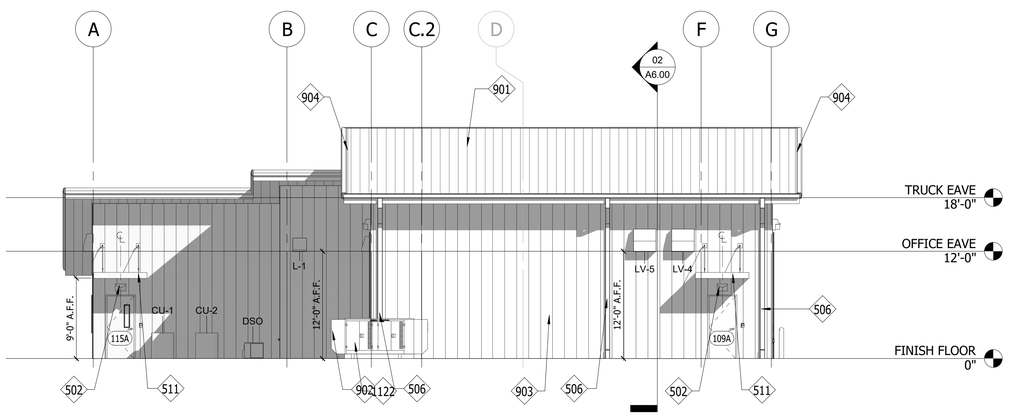
10 EAST ELEVATION
1/8" = 1'-0"



02 NORTH ELEVATION
1/8" = 1'-0"



09 SOUTH ELEVATION
1/8" = 1'-0"



01 WEST ELEVATION
1/8" = 1'-0"

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NO.	REVISIONS:	APPROVED	DATE
1	50% REVIEW SET		2022/01/21
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08

DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT C-32576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

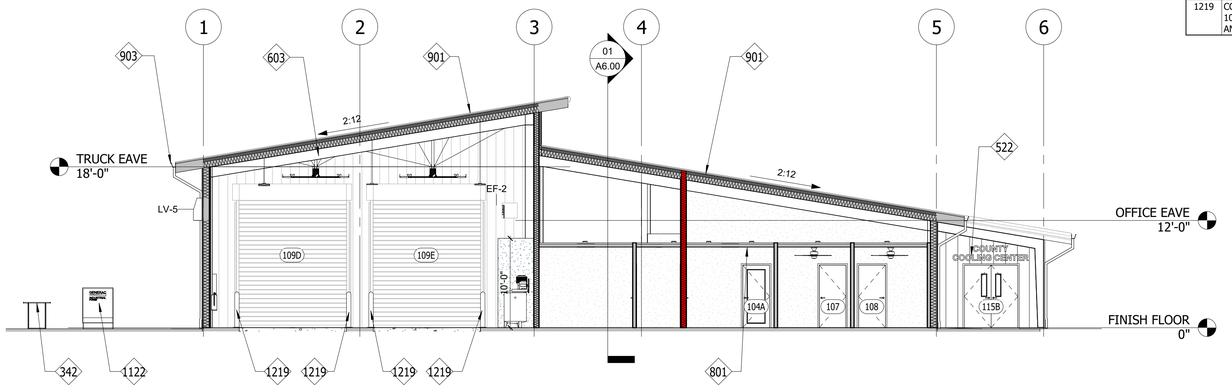
SHEET CONTENT:

EXTERIOR ELEVATIONS

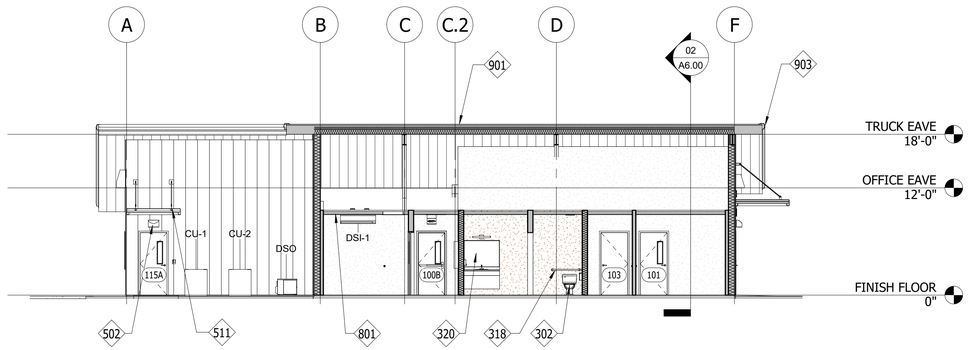
SHEET
A5.00
OF ___ SHEETS

JOB NO.
1509-00

KEYNOTES	XXX
302	PROVIDE NEW ADA COMPLIANT FLOOR MOUNTED TANK TOILET RE:MEP
318	PROVIDE NEW 36" ADA GRAB BAR - BRACE WALL AS NECESSARY
320	PROVIDE NEW 42"Wx36"H POLISHED PLATE GLASS MIRROR WITH STAINLESS STEEL FRAME
342	STEEL RACK FOR DRYING FIRE HOSE - SECURELY ATTACH TO CONCRETE SLAB
502	PROVIDE NEW LED WALL PACK - RE: MEP
511	METAL CANOPY 3'-0" PROJECTION x 5'-0" WIDE AT 9' A.F.F. - CENTER OVER DOOR
522	PROVIDE POWER AND BACKLITE "COUNTY COOLING CENTER" SIGN - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
603	METAL BUILDING FRAME - RE: PEMB DRAWINGS
801	SCHED. CEILING
901	MP-1: METAL ROOF PANEL - RE: FINISH MATERIALS SCHEDULE
903	MP-3: METAL TRIM AT RAKE, EAVE, GUTTERS, DOWNSPOUTS - RE: FINISH MATERIALS SCHEDULE
1122	GENERATOR PAD & DIESEL GENERATOR - RE: MEP DRAWINGS
1219	CONCRETE FILLED 6" O.D. STEEL PIPE W/ RADIUS CAP, 48" TALL WITH YELLOW HDPE BOLLARD COVER WITH 10" X 12" X 1/2" STEEL BASE PLATE ANCHORED TO CONCRETE BY (4) 1/2" DIAMETER BOLT EXPANSION ANCHORS, PAINT BASE SAFETY YELLOW - RE: 12/A1.10



02 CROSS SECTION
1/8" = 1'-0"



01 LONGITUDINAL SECTION
1/8" = 1'-0"

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DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M HOLT C-32576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

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05 - 31 - 2023
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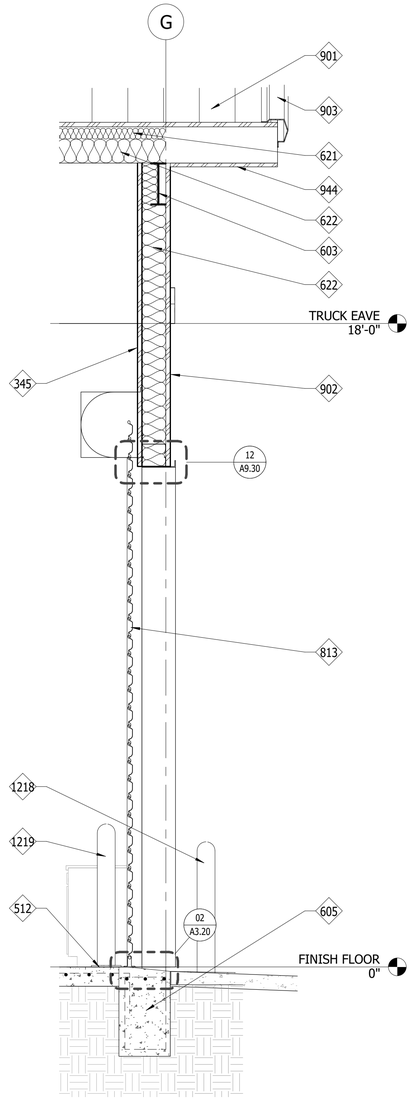
PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

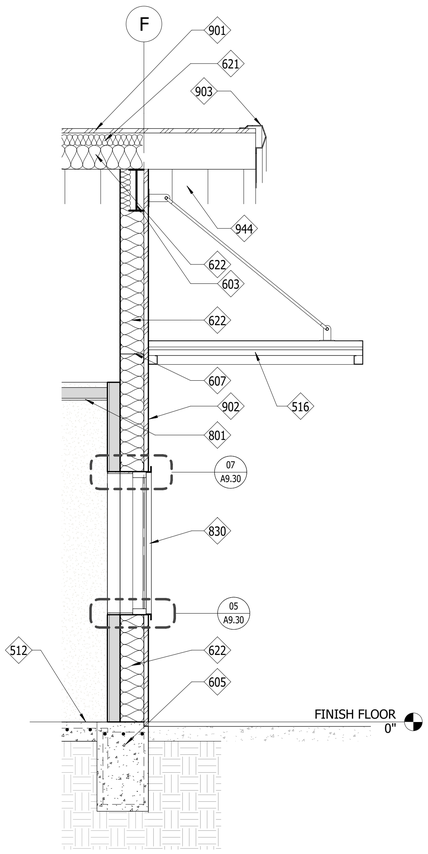
SHEET CONTENT:
BUILDING SECTIONS

SHEET
A6.00
OF ___ SHEETS
JOB NO.
1509-00

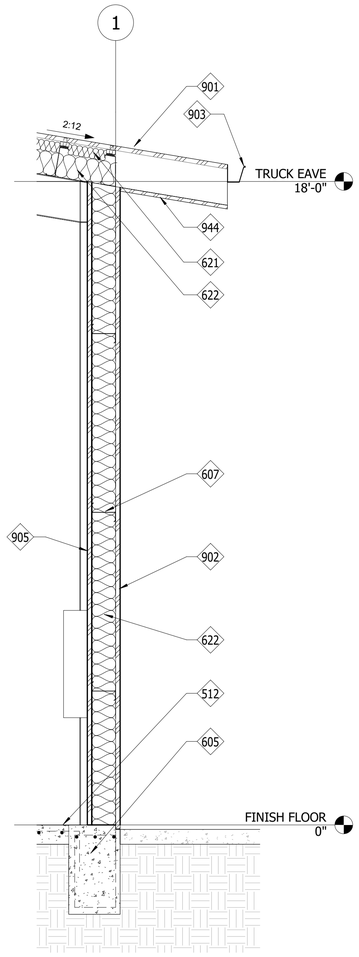
KEYNOTES ◇XXX◇	
345	LINER PANEL TO ROOF - RE: FINISH MATERIALS SCHEDULE
512	FINISHED FLOOR
516	METAL CANOPY 6'-0" PROJECTION x 25'-0" WIDE AT 10' A.F.F.
603	METAL BUILDING FRAME - RE: PEMB DRAWINGS
605	BUILDING FOUNDATION - RE: STRUCTURAL
607	GIRTS (TYP.) - RE: PEMB DRAWINGS
621	(R13) INSULATION
622	(R25) INSULATION
801	SCHED. CEILING
813	OVERHEAD COILING DOOR - RE: DOOR SCHEDULE
830	SCHEDULED WINDOW
834	SCHED. DOOR
901	MP-1: METAL ROOF PANEL - RE: FINISH MATERIALS SCHEDULE
902	MP-2: METAL WALL PANEL - RE: FINISH MATERIALS SCHEDULE
903	MP-3: METAL TRIM AT RAKE, EAVE, GUTTERS, DOWNSPOUTS - RE: FINISH MATERIALS SCHEDULE
905	MP-5: METAL LINER PANEL - RE: FINISH MATERIALS SCHEDULE
944	MP-6: METAL SOFFIT PANEL - RE: FINISH MATERIALS SCHEDULE
1218	PROVIDE 6" DIA. CONC. FILLED SCH 40 PIPE; HDPE YELLOW PLASTIC COVER - RE: 08/A1.10
1219	CONCRETE FILLED 6" O.D. STEEL PIPE W/ RADIUS CAP, 48" TALL WITH YELLOW HDPE BOLLARD COVER WITH 10" X 12" X 1/2" STEEL BASE PLATE ANCHORED TO CONCRETE BY (4) 1/2" DIAMETER BOLT EXPANSION ANCHORS, PAINT BASE SAFETY YELLOW - RE: 12/A1.10



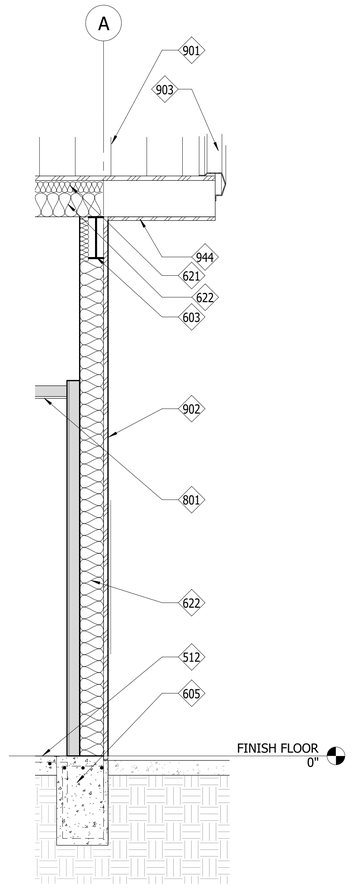
13 O.H. DOOR SECTION
1/2" = 1'-0"



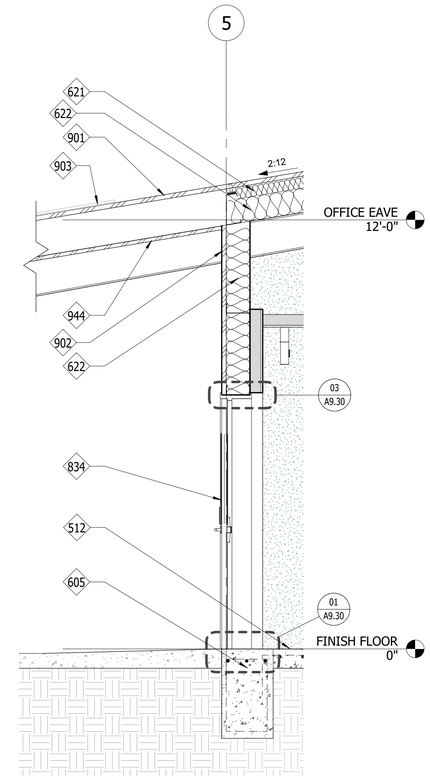
09 WINDOW SECTION
1/2" = 1'-0"



05 APPARATUS WALL SECTION
1/2" = 1'-0"



03 FINISHED WALL SECTION
1/2" = 1'-0"



01 DOOR SECTION
1/2" = 1'-0"

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4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT STATE OF CALIFORNIA
MAY 2023 RENEWAL DATE

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07/08/2022
DATE

12576
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05 - 31 - 2023
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PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

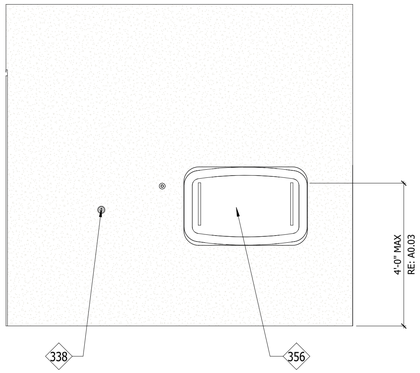
SHEET CONTENT:
WALL SECTIONS

SHEET
A6.10
OF ___ SHEETS
JOB NO.
1509-00

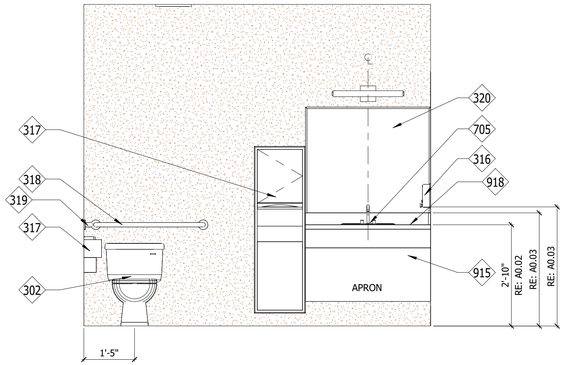
KEYNOTES	XXX
302	PROVIDE NEW ADA COMPLIANT FLOOR MOUNTED TANK TOILET RE:MEP
307	PROVIDE NEW ADA COMPLIANT PRE-FABRICATED ROLL-IN TYPE FIBERGLASS SHOWER COMPARTMENT WITH INTEGRATED BENCH, GRAB BARS, AND SPRAY HANDLE - RE:MEP - MUST COMPLY WITH CBC 11B-608.2.2
315	PROVIDE ADA COMPLIANT CHANGING BENCH 48" LONG X 22" DEEP X 18" HIGH WITH BACK SUPPORT MINIMUM 18 INCH HIGH ABOVE SEAT AND 2.5 INCH MAX FROM REAR EDGE OF THE SEAT
316	PROVIDE NEW SOAP DISPENSER
317	PROVIDE RECESSED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE
318	PROVIDE NEW 36" ADA GRAB BAR - BRACE WALL AS NECESSARY
319	PROVIDE NEW 42" ADA GRAB BAR - BRACE WALL AS NECESSARY
320	PROVIDE NEW 42"Wx36"H POLISHED PLATE GLASS MIRROR WITH STAINLESS STEEL FRAME
321	PROVIDE NEW TWO-TIER, 24"Wx20"Dx72"H GEARGRID FIRE STORAGE LOCKERS - FINISH: RED BARON - PROVIDE (2)2x BLOCKING FOR WALL LOCKER MOUNTS. PROVIDE SIMPSON WBAC CONNECTOR FROM BLOCKING TO STUDS. ATTACH LOCKER WALL MOUNT BRACKETS TOP AND BOTTOM AT 24" OC WITH 3/8" DIAMETER X2 1/2" LAG SCREWS
338	DOOR STOP - RE: DOOR SCHEDULE
356	PROVIDE ADA COMPLIANT BABY CHANGING STATION - BRACE WALL AS NECESSARY
705	PROVIDE PLASTIC LAMINATE COUNTER TOP 3'-6" WIDE 24" DEEP 34" HIGH WITH 4" BACKSPLASH AND DROP IN SINK WITH ADA APRON - BRACE AS NECESSARY
915	PL-2: PLASTIC LAMINATE COUNTERTOPS - RE: FINISH MATERIALS SCHEDULE
918	SS-1: STAINLESS STEEL COUNTERTOP WITH MATCHING 4" BACKSPLASH, TYP. AROUND ALL COUNTERTOPS - RE: FINISH MATERIALS SCHEDULE

ADAA COMPLIANCE NOTES

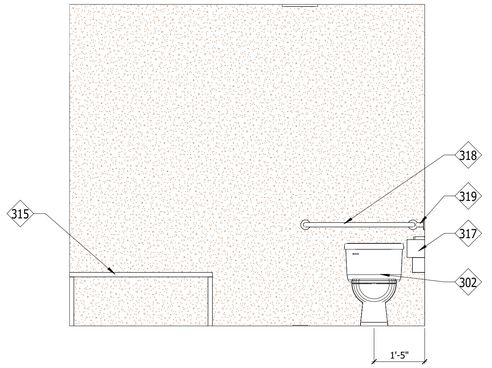
REFER TO SHEETS A0.02 - A0.05 FOR ALL ACCESSIBILITY STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO:
OPERABLE PART MOUNTING HEIGHTS, REACH RANGES, PROTRUDING OBJECTS, CHANGES IN LEVEL, ETC...



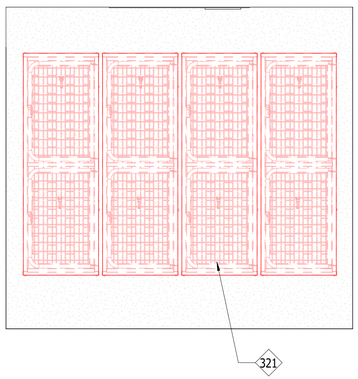
14 UNI-SEX R/R 113 - EAST ELEV.
1/2" = 1'-0"



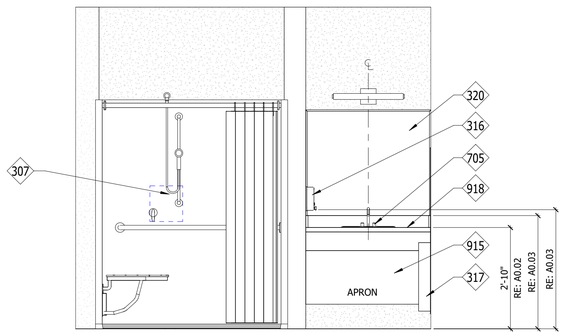
10 UNI-SEX R/R 113 - WEST ELEV.
1/2" = 1'-0"



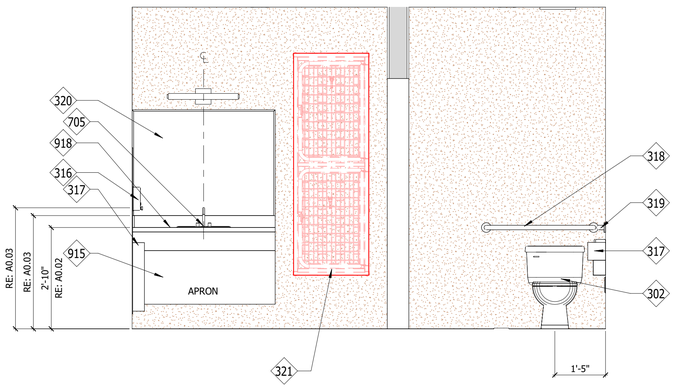
06 UNI-SEX R/R 114 - NORTH ELEV.
1/2" = 1'-0"



13 LOCKERS 112 - WEST ELEV.
1/2" = 1'-0"



09 UNI-SEX R/R 114 - SOUTH ELEV.
1/2" = 1'-0"



05 WASHROOM 110 - EAST ELEV.
1/2" = 1'-0"

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UNAUTHORIZED CHANGES & USES: The architect preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

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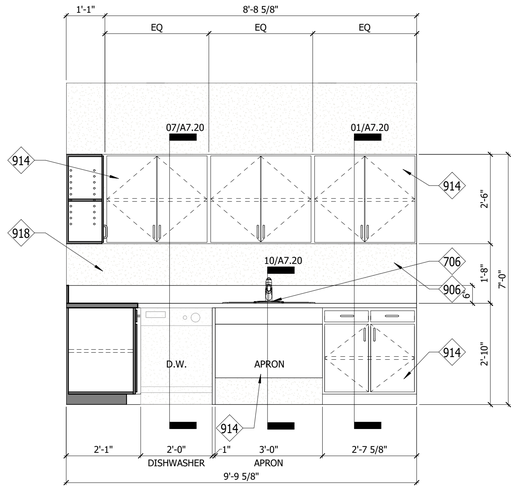
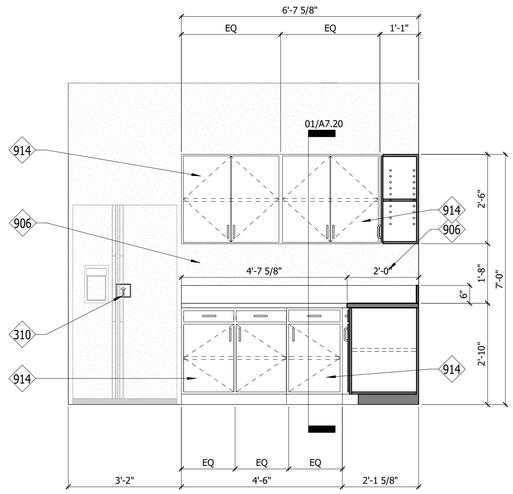
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
INTERIOR ELEVATIONS

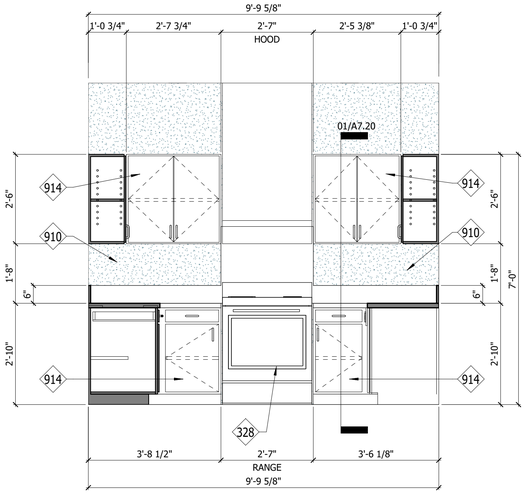
SHEET
A7.00
OF ___ SHEETS
JOB NO.
1509-00



16 KITCHEN 105 - NORTH ELEV.
1/2" = 1'-0"



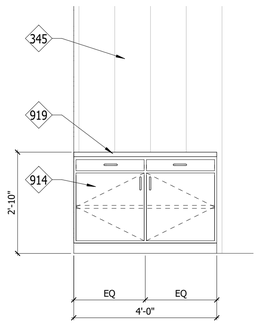
12 KITCHEN 105 - SOUTH ELEV.
1/2" = 1'-0"



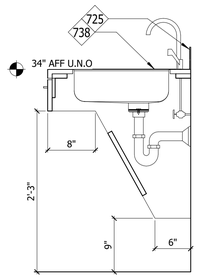
08 KITCHEN 105 - WEST ELEV.
1/2" = 1'-0"

KEYNOTES

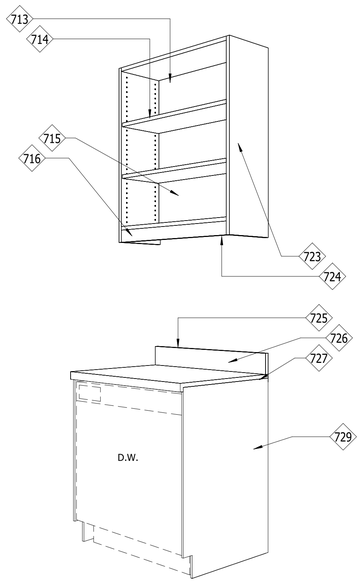
310	PROVIDE WATER CONNECTION AND REFRIGERATOR
328	PROVIDED RANGE AND VENT HOOD AND PROPER CONNECTIONS - RE:MEP
345	LINER PANEL TO ROOF - RE: FINISH MATERIALS SCHEDULE
706	PROVIDE STAINLESS STEEL DOUBLE COMPARTMENT SINK WITH FAUCET & ADA COMPLIANT APRON
713	CABINET BACK: 1/2" PARTICLE BOARD ONSET BACKS
714	SHELF EDGE: EXTRUDED PVC EDGE BAND
715	INTERIOR OF CABINET: PVC LAMINATE
716	2-1/2" VALANCE: REFER TO ELEVATIONS FOR LIGHTING LOCATIONS
717	DOOR & DRAWER PULL: REFER TO HARDWARE ACCESSORIES
718	INTERIOR OF CLOSED CABINET: THERMALLY FUSED MELAMINE; COLOR: WHITE
719	POLYURETHANE DOOR BUMPERS; 3/8" DIAMETER X 1/8" THICK; CLEAR
720	HINGE: REFER TO HARDWARE ACCESSORIES
721	BODY FRONT EDGING, 1MM PVC LAMINATE
722	TOE KICK: 4" HIGH X 3" DEEP; PVC LAMINATE AT ALL EXPOSED AREAS
723	EXPOSED ENDS: PLASTIC LAMINATE
724	WALL UNIT BOTTOM: PLASTIC LAMINATE
725	4" HIGH BACKSPLASH WHERE SHOWN ON ELEVATIONS - MATCH COUNTERTOP FINISH
726	COUNTERTOP: PLASTIC LAMINATE
727	FULL SUBTOP
728	CABINET CORE MATERIAL: 3/4" PARTICLE BOARD
729	FACE EXTERIOR SURFACE MATERIAL: PLASTIC LAMINATE
730	SUBBASE: WATER-RESISTANT, EXTERIOR GRADE PLYWOOD, LADDER-TYPE SYSTEM
731	DRAWER SLIDES: REFER TO HARDWARE ACCESSORIES
732	DRAWER EDGE: 3MM EXTRUDED PVC, FLAT SHAPED, SMOOTH FINISH; PRODUCT: EDGECO INC.; COLOR: MATCH LAMINATE MATERIAL COLOR AND WOOD GRAIN
733	PLAM ADJUST SHELF
734	SCHED FINISH ON 3/4" SUBSTRATE RE: ELEV
735	PLAM INTERIOR FINISH ALL SURFACES
737	WIRE GROMMET IF NOTED ON PLAN AND INTERIOR ELEVATIONS
738	SCHED PLAM TOP RE: ELEV
739	REDUCED DRAWER DEPTH AT OUTLET LOCATION
740	SCHED FINISH ON 3/4" SUBSTRATE RE: ELEV
741	ELECTRICAL OUTLET IF NOTED ON INTERIOR ELEVATIONS
742	PLAM INTERIOR FINISH ALL SURFACES
906	PTD-1: PAINT - RE: FINISH MATERIALS SCHEDULE
910	PTD-5: PAINT - RE: FINISH MATERIALS SCHEDULE
914	PL-1: PLASTIC LAMINATE CABINET FRONTS - RE: FINISH MATERIALS SCHEDULE
918	SS-1: STAINLESS STEEL COUNTERTOP WITH MATCHING 4" BACKSPLASH, TYP. AROUND ALL COUNTERTOPS - RE: FINISH MATERIALS SCHEDULE
919	QTZ-1: QUARTZ COUNTERTOP - RE: FINISH MATERIALS SCHEDULE



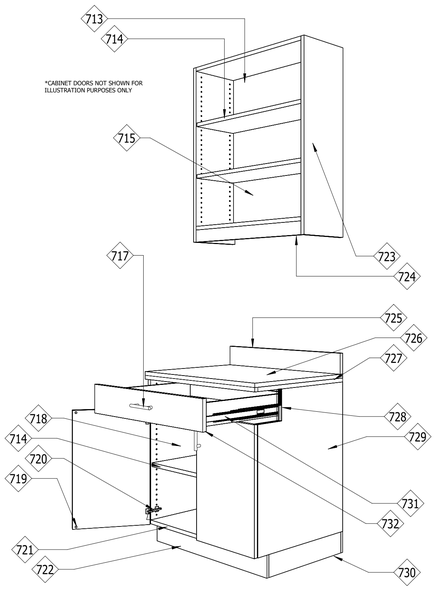
13 APPARATUS - SOUTH ELEV.
1/2" = 1'-0"



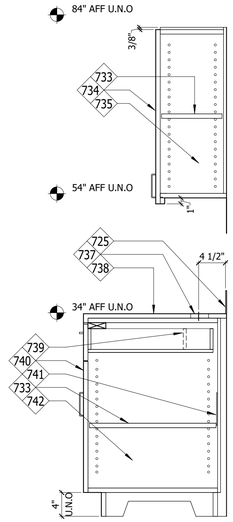
10 SINK DETAIL
1" = 1'-0"



07 ARCH. CASEWORK DETAIL - D.W.
3/16" = 1'-0"



05 ARCH. CASEWORK DETAIL - TYP.
3/16" = 1'-0"



01 CABINET DETAILS
1" = 1'-0"

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SHEET CONTENT:
MILLWORK DETAILS

SHEET
A7.20
OF ___ SHEETS

JOB NO.
1509-00

FINISH SCHEDULE REMARKS

1. PROVIDE RB-1 ON ALL GYP. WALLS - UNLESS NOTED OTHERWISE (U.N.O.)
2. NOT USED
3. UNFINISHED = EXPOSED PRE-ENGINEERED METAL BUILDING (CEILINGS ARE OPEN TO DECK)
4. SC-1: SEALED CONCRETE - FLOORING SUBCONTRACTOR MUST SUBMIT FLOOR SEALING SYSTEM FOR APPROVAL BY MBA PRIOR TO INSTALLATION. APPLY SEALER PER MANUFACTURER'S RECOMMENDATIONS INCLUDING ALL NECESSARY PREPARATION WORK
5. PROVIDE 4'x8'x3/4" FIRE RESISTANT PLYWOOD TO 8'-0" A.F.F.
6. PTD-2: EPOXY PAINT FOR WET WALLS - MATCH PAINT COLOR WHERE SPECIFIED ON FINISH FLOOR PLAN
7. PROVIDE FLOORING FINISH TRANSITION - RE: A9.10

FINISH NOTES

PER THE IBC, WALLS WITHIN TWO (2) FEET OF URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE TO A HEIGHT OF FOUR (4) FEET A.F.F. AND EXCEPT FOR STRUCTURAL ELEMENTS. THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES PROVIDED ON OR WITHIN SUCH WALLS SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

WHEN GYPSUM BOARD IS USED AS A SUBSTRATE FOR TILE OR WALL PANELS FOR TILE OR WALL PANELS FOR TUBS, SHOWER OR WATER CLOSET COMPARTMENT WALLS, WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE USED AS A SUBSTRATE

- STANDARD WALL PRIMER: SHERWIN WILLIAMS PROMAR 200 ZERO VOC B28W2600
- STANDARD WALL PAINT: SHERWIN WILLIAMS PROMAR 200 EGG-SHELL OR EQUAL
- COLORS SHOULD BE APPLIED IN BLOCKS (DO NOT BREAK OR CHANGE COLORS ON OUTSIDE CORNERS)
- PROVIDE STANDARD RESTROOM ACESSORIES INCLUDING MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, AND ADA COMPLIANT GRAB BARS
- ALL RUBBER BASE TO BE APPLIED SO THAT SEAMS ARE LOCATED AT WALL CORNERS - 48" BASE SECTIONS ARE NOT PERMITTED

WALL FINISH NOTES

- ALL OFFICE WALLS TO BE LEVEL 4 FINISH U.N.O.

REFER TO A9.50 - PARTITION TYPES FOR LEVEL FINISH INFORMATION

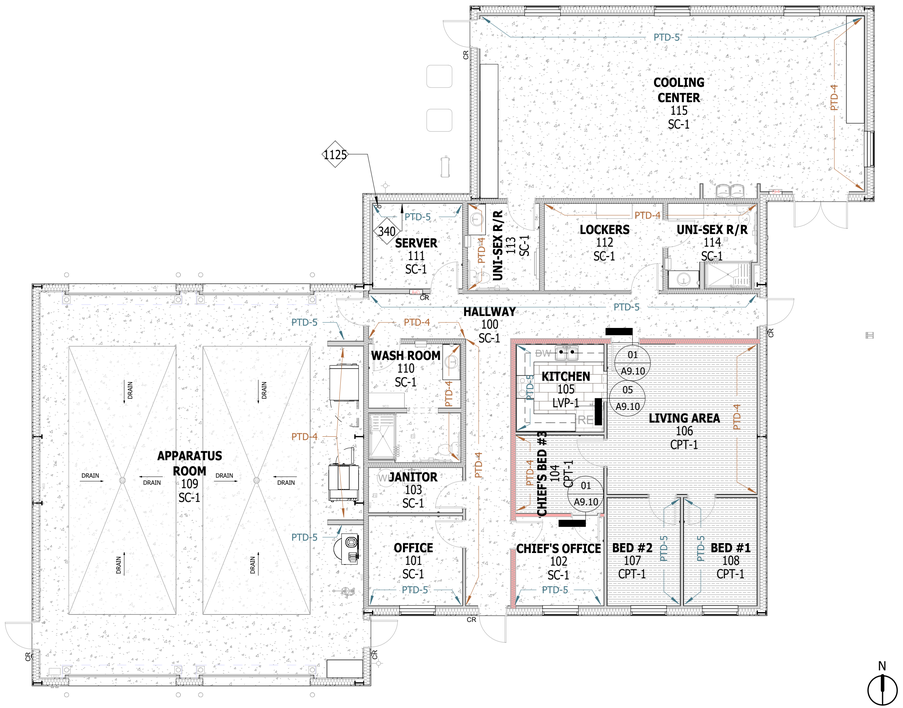
-ALL OUTSIDE CORNERS TO HAVE SQUARE CORNER BEADS

FINISH SCHEDULE - ROOM

ROOM #	ROOM NAME	FLOOR	BASE	CEILINGS	WALLS (BASED ON PLAN NORTH) NORTH	EAST	SOUTH	WEST	REMARKS
100	HALLWAY	SC-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-4/PTD-5	PTD-1	4
101	OFFICE	SC-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-5	PTD-1	4
102	CHIEF'S OFFICE	SC-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-5	PTD-1	4
103	JANITOR	SC-1	RB-1	PTD-3	PTD-2	PTD-1	PTD-1	PTD-2	4, 6
104	CHIEF'S BED #3	CPT-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-1	PTD-4	7
105	KITCHEN	LVP-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-1	PTD-5	6, 7
106	LIVING AREA	CPT-1	RB-1	PTD-3	PTD-1	PTD-4	PTD-1	PTD-1	7
107	BED #2	CPT-1	RB-1	PTD-3	PTD-1	PTD-5	PTD-1	PTD-1	
108	BED #1	CPT-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-1	PTD-5	
109	APPARATUS ROOM	SC-1	LP-1	UNFINISHED	LP-1	PTD-1/LP-1/PTD-2/PTD-4/PTD-5	LP-1	LP-1	1, 3, 4, 6
110	WASH ROOM	SC-1	RB-1	PTD-3	PTD-1	PTD-2/PTD-4	PTD-1	PTD-1	4, 6
111	SERVER	SC-1	RB-1	PTD-3	PTD-5	PTD-1	PTD-1	PTD-1	4, 5
112	LOCKERS	SC-1	RB-1	PTD-3	PTD-4	PTD-1	PTD-1	PTD-1	4
113	UNI-SEX R/R	SC-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-1	PTD-2/PTD-4	4, 6
114	UNI-SEX R/R	SC-1	RB-1	PTD-3	PTD-2/PTD-4	PTD-1	PTD-2	PTD-1	4, 6
115	COOLING CENTER	SC-1	RB-1	PTD-3	PTD-5	PTD-4	PTD-1/PTD-2	PTD-1	4, 6

KEYNOTES

340	PROVIDE 4'x8'x3/4" FIRE RESISTANT PLYWOOD TO 8'-0" A.F.F. FOR TELEPHONE TERMINAL BOARD "TTB" - REFER TO PLAN FOR LOCATION
1125	PROVIDE (2) 4" CONDUITS FOR AT&T/SPECTRUM - RE: ELECTRICAL DRAWINGS



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01 FINISH FLOOR PLAN
1/8" = 1'-0"

FINISH MATERIALS SCHEDULE - EXTERIOR

ID	PRODUCT INFORMATION	APPEARANCE
AL-1	ALUMINUM WINDOW FRAME FINISH: ANNODIZED	
MP-1	METAL PANEL 1 STANDING SEAM METAL ROOF COPPER METALLIC RE: PEMB DRAWINGS FIRE CLASSIFICATION: CLASS A	
MP-2	METAL PANEL 2 EXTERIOR WALL SHEATHING - APPARATUS BUILDING CUSTOM PANEL SYSTEMS STUCCO FINISH - DUSK COLOR FIRE CLASSIFICATION: CLASS A	
MP-3	METAL PANEL 3 EXTERIOR WALL SHEATHING - MAIN BUILDING CUSTOM PANEL SYSTEMS STUCCO FINISH - ADOBE COLOR FIRE CLASSIFICATION: CLASS A	
MP-4	METAL PANEL 4 PEMB RAKE/EAVE TRIM, GUTTERS METALLIC COPPER RE: PEMB DRAWINGS FIRE CLASSIFICATION: CLASS A	
MP-6	METAL PANEL 5 PEMB SOFFIT PANEL POLAR WHITE RE: PEMB DRAWINGS	
MP-7	METAL PANEL 7 PEMB DOWNSPOUTS/DOORS/WINDOW TRIM COAL BLACK RE: PEMB DRAWINGS FIRE CLASSIFICATION: CLASS A	
OH-D	OVERHEAD DOOR PANELS MANUFACTURER: CORNELL FINISH TBD	
PTD-6	EXTERIOR H.M. DOORS SHERWIN WILLIAMS STOP - SW6869 FINISH: SEMI-GLOSS	
PTD-7	EXTERIOR/INTERIOR H.M. FRAMES SHERWIN WILLIAMS IRON ORE - SW7069 FINISH: SEMI-GLOSS	

FINISH MATERIALS SCHEDULE - INTERIOR

ID	PRODUCT INFORMATION	APPEARANCE
CPT-1	CARPET 1 J&J FLOORING Z FACTOR - MARGIN PATTERN: BASKETWEAVE	
DF-1	INTERIOR KNOCK-DOWN DOOR FRAMES TIMELY CLASSIC C-SERIES ALUMATONE CASING TA-28 SC 101 BLACK	
LVP-1	LUXURY VINYL PLANK MOHAWK - LVP FLOORING PREMIUM WOOD - 96 SHADOW PATTERN: OFFICE SET 7.72"Wx51.97"L 20 MIL	
MP-5	METAL PANEL 5 PEMB LINER PANEL POLAR WHITE RE: PEMB DRAWINGS	
MWP-1	MILLWORK PULLS BRUSHED ALUMINUM BAR PULL	
PL-1	PLASTIC LAMINATE SC DOORS WILSONART FAWN CYPRESS - 8208K-16 FINISH: CASUAL RUSTIC	
PL-2	PLASTIC LAMINATE CABINETS WILSONART BLACKBIRD - 5024K-19 FINISH: FINE LENO WEAVE	
PLY-1	PLYWOOD 1 3/4" FIRE RESISTANT PLYWOOD TO 8'-0" A.F.F.	
PTD-1	INTERIOR WALLS U.N.O. SHERWIN WILLIAMS NUANCE - SW7049 FINISH: EG-SHELL	
PTD-3	PAINTED GYP. CEILINGS SHERWIN WILLIAMS CEILING BRIGHT WHITE - SW7007 FINISH: SATIN	
PTD-4	ACCENT PAINT 1 SHERWIN WILLIAMS COPPER POT - SW7709 FINISH: EG-SHELL RE: FINISH FLOOR PLAN FOR LOCATIONS	
PTD-5	ACCENT PAINT 2 SHERWIN WILLIAMS SILKEN PEACOCK - SW9059 FINISH: EG-SHELL RE: FINISH FLOOR PLAN FOR LOCATIONS	
PTD-8	INTERIOR H.M. DOORS SHERWIN WILLIAMS NUANCE - SW7049 SEMI-GLOSS SHEEN	
PTD-9	INTERIOR H.M. FRAMES SHERWIN WILLIAMS IRON ORE - SW7069 FINISH: SEMI-GLOSS	
QTZ-1	QUARTZ COUNTERTOP DALTILE OQN9 WOVEN WOOL FINISH: POLISHED 3CM - 1/4" EDGE	
RB-1	RUBBER BASE ALL GYP. WALLS U.N.O. ROPPE BLACK BROWN 193 4" COVE	
SC-1	SEALED CONCRETE RE: FINISH SCHEDULE REMARKS	
SS-1	STAINLESS STEEL 1 COUNTERTOPS FINISH: BRUSHED 4" BACKSPLASH	

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT — SIGNED — MAY 2023 RENEWAL DATE — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022 DATE

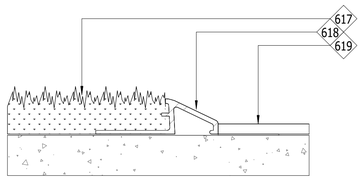
12576 REGISTRATION NUMBER
05 - 31 - 2023 EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

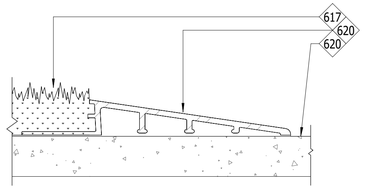
SHEET CONTENT:
FINISH FLOOR PLAN & SCHEDULES

SHEET A9.00
OF ___ SHEETS
JOB NO. 1509-00

KEYNOTES	XXX
617	CARPET - RE: FINISH MATERIALS SCHEDULE
618	CARPET TO LUXURY VINYL PLANK METAL TRANSITION
619	LUXURY VINYL PLANK - RE: FINISH MATERIALS SCHEDULE
620	CARPET TO SEALED CONCRETE METAL TRANSITION



05 CPT-1 TO LVP-1
3/8" = 1'-0"



01 SC-1 TO CPT-1
3/8" = 1'-0"

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PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:

FINISH DETAILS

SHEET
A9.10
OF ___ SHEETS

JOB NO.
1509-00

LOCK SET LEGEND

SET	TYPE	DESCRIPTION	IMAGE
1	ENTRY LOCKSET	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED FROM OUTSIDE WITH KEY. WHEN OUTSIDE LEVER IS LOCKED, LATCHBOLT IS OPERATED BY KEY IN OUTSIDE LEVER OR BY ROTATING INSIDE LEVER	
2	PASSAGE SET	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE AT ALL TIMES	
3	INTERIOR LOCKSET	TURN/PUSH BUTTON LOCKING. PUSHING AND TURNING BUTTON LOCKS OUTSIDE LEVER REQUIRING USE OF KEY UNTIL BUTTON IS MANUALLY UNLOCKED. PUSHING BUTTON LOCKS OUTSIDE LEVER UNTIL UNLOCKED WITH KEY OR INSIDE LEVER IS TURNED. DEADLOCKING LATCHBOLT OPERATED BY INSIDE LEVER AT ALL TIMES	
4	PRIVACY LOCKSET	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON INSIDE AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE, ROTATING INSIDE LEVER OR CLOSING DOOR	
5	PUSH/PULL SET	PUSH PLATE AND PULL HANDLE WITH PLATE - NO LATCHING OR LOCKING CAPABILITIES	
6	STOREROOM LOCKSET	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR ROTATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED	
7	OVERHEAD DOOR	HARDWARE BY MANUFACTURER	

DOOR SCHEDULE NOTES

1. PROVIDE A READILY VISIBLE SIGN ON THE EGRESS SIDE OR ADJACENT TO THE DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THE SPACE IS OCCUPIED" PER CBC, SECTION 1010.1.9.4(#2)(2.2)
2. ALL DOORS AND HARDWARE SHALL COMPLY WITH ALL SECTION OF THE ACCESSIBILITY STANDARDS, INCLUDING BUT NOT LIMITED TO, SECTIONS 404.2.7 - 404.2.8 - 404.2.9
3. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE PER CBC, SECTION 1010.1.9
4. LOCKING DEVICES SHALL BE READILY DISTINGUISHABLE AS LOCKED PER CBC, SECTION 1010.1.9.4(#2)(2.1)
5. ALL OVERALL DIMENSIONS ARE NOMINAL
6. UNLESS NOTED OTHERWISE, GLASS TYPE IS TYPE "1"
7. VERIFY ROUGH OPENING DIMENSIONS IN FIELD PRIOR TO FABRICATION
8. ALL 7'-0" TALL DOORS TO HAVE (3) FULLY MORTISED HINGES; ALL 9'-0" TALL DOORS TO HAVE (4) FULLY MORTISED HINGES
9. SWINGING DOORS WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR BRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED
10. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
    A. INTERIOR HINGED DOORS AND GATES - 5 POUNDS MAXIMUM
    B. REQUIRED FIRE DOORS - THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS
    C. EXTERIOR HINGED DOORS - 5 POUNDS MAXIMUM

ABBREVIATIONS

1. H.M. = HOLLOW METAL , ALUM. = ALUMINUM , PL = PLASTIC LAMINATE , STL. = STEEL
   S.C. = SOLID CORE, O.H. = OVERHEAD, PTD = PAINTED

DOOR GLASS NOTES

GLASS TYPE 1 = 1/4" THICK - TEMPERED
GLASS TYPE 2 = FIRE RATED GLAZING - COMPLY WITH D-H-45 REQUIREMENTS

DOOR SCHEDULE REMARKS

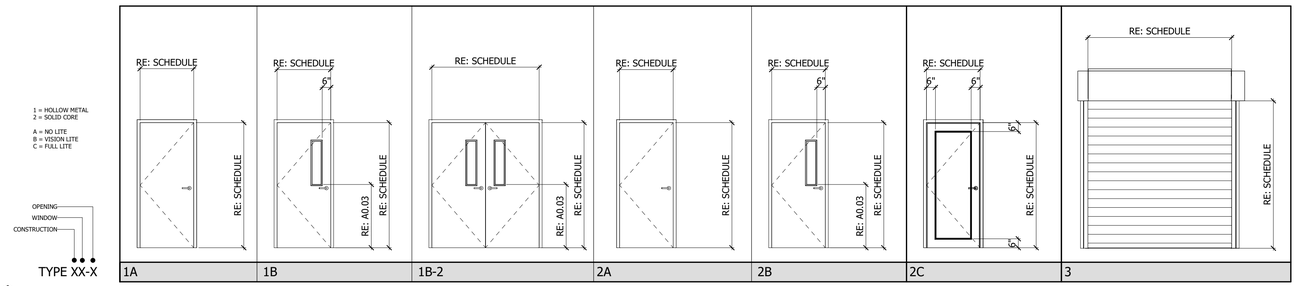
1. GLAZING SUBJECT TO HUMAN IMPACT LOADS AND IN ALL HAZARDOUS LOCATIONS SHALL COMPLY WITH CBC SECTION 2406 (INCLUDING 2406.1, 2406.2, 2406.3, & 2406.4.1 through 2604.4.7). STOREFRONT GLASS DOORS AND ADJACENT GLASS PANELS SHALL BE SAFETY/IMPACT RESISTANT GLASS
2. DOOR & DOOR FRAME TO BE PREPARED FOR ACCESS CONTROL - PROVIDE CONDUIT AND PULL STRING - ACCESS CONTROL BY OTHERS
3. A TRIANGLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO MEN'S TOILET AND BATHING FACILITIES. THE TRIANGLE SYMBOL SHALL BE AN EQUILATERAL TRIANGLE 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND A VERTEX POINTING UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND
4. A CIRCLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO WOMEN'S TOILET AND BATHING FACILITIES. THE CIRCLE SYMBOL SHALL BE 1/4 INCH THICK AND 12 INCHES IN DIAMETER. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE CIRCLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND
5. A COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO UNISEX TOILET AND BATHING FACILITIES. THE COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL CONSIST OF A CIRCLE SYMBOL 1/4 INCH THICK AND 12 INCHES IN DIAMETER WITH A 1/4 INCH THICK EQUILATERAL TRIANGLE SYMBOL SUPERIMPOSED ON AND GEOMETRICALLY INSCRIBED WITHIN THE 12-INCH DIAMETER OF THE CIRCLE SYMBOL. THE TRIANGLE SYMBOL SHALL BE LOCATED 1/4 INCH MAXIMUM FROM THE EDGE OF THE CIRCLE SYMBOL WITH A VERTEX POINTING UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE COMBINED CIRCLE AND TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND
6. PROVIDE TACTILE SIGN STATING "EXIT" PER ICC A117.1 & CBC SECTION 1013.4

FINISH MATERIALS SCHEDULE - DOORS

ID	PRODUCT INFORMATION	APPEARANCE
DF-1	INTERIOR KNOCK-DOWN DOOR FRAMES TIMELY CLASSIC C-SERIES ALUMATONE CASING TA-28 SC 101 BLACK	
PTD-6	EXTERIOR H.M. DOORS SHERWIN WILLIAMS STOP - SW6869 FINISH: SEMI-GLOSS	
PTD-7	EXTERIOR/INTERIOR H.M. FRAMES SHERWIN WILLIAMS IRON ORE - SW7069 FINISH: SEMI-GLOSS	
PTD-8	INTERIOR H.M. DOORS SHERWIN WILLIAMS NUANCE - SW7049 SEMI-GLOSS SHEEN	
PTD-9	INTERIOR H.M. FRAMES SHERWIN WILLIAMS IRON ORE - SW7069 FINISH: SEMI-GLOSS	

DOOR & HARDWARE SCHEDULE

DOOR #	ROOM NAME	LOCATION	DOOR INFORMATION								CONSTRUCTION/FINISH				HARDWARE ACCESSORIES											LOCK SET	REMARKS
			SWING KEYSIDE	SIZE	TYPE	THROAT SIZE	FIRE RATING	GLASS TYPE	INSULATION U-FACTOR	PANEL THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	CLOSER	DOOR STOP	PANIC DEVICE	CARD READER	SEAL	DOOR SWEEP	KICK PLATE	FUNCTION TYPE	DRIP CAP	THRESHOLD	TRIM		
100A	HALLWAY	Exterior	RHR	3070	1B	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●			●	●	●	1	1, 6
100B	HALLWAY	Exterior	RHR	3070	1B	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●			●	●	●	1	1, 6
109A	APPARATUS ROOM	Exterior	LHR	3070	1A	8"			0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●	●		●	●	●	6	6
109B	APPARATUS ROOM	Exterior	RHR	3070	1B	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●	●		●	●	●	1	1
109D	APPARATUS ROOM	Exterior		120140	3	8"			0.31		BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.					●	●		ELECTRIC				7	
109E	APPARATUS ROOM	Exterior		120140	3	8"			0.31		BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.					●	●		ELECTRIC				7	
109F	APPARATUS ROOM	Exterior		120140	3	8"			0.31		BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.					●	●		ELECTRIC				7	
109G	APPARATUS ROOM	Exterior		120140	3	8"			0.31		BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.					●	●		ELECTRIC				7	
115A	COOLING CENTER	Exterior	LHR	3070	1B	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●	●		●	●	●	1	1, 6
115B	COOLING CENTER	Exterior	RHR/LHR	6070	1B-2	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●		●	●	●		●	●	●	1	1
101	OFFICE	Interior	RH	3070	2B	4 7/8"		1		1 3/4"	S.C.	PL-1	STL.	DF-1		●										3	
102	CHIEF'S OFFICE	Interior	LH	3070	2B	7 7/8"	45 MIN	2		1 3/4"	S.C.	PL-1	STL.	DF-1	●	●										3	1
103	JANITOR	Interior	LH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1		●										6	
104A	CHIEF'S BED #3	Interior	RHR	3070	2C	4 7/8"		1		1 3/4"	S.C.	PL-1	STL.	DF-1	●	●										2	1
104B	CHIEF'S BED #3	Interior	RH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1		●								●		4	
106	LIVING AREA	Interior	RH	3070	2B	7 7/8"	45 MIN	2		1 3/4"	S.C.	PL-1	STL.	DF-1	●	●								●		3	1
107	BED #2	Interior	LH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1		●								●		4	
108	BED #1	Interior	RH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1		●								●		4	
109C	APPARATUS ROOM	Interior	LHR	3070	1B	7 1/4"			0.37	1 3/4"	H.M.	PTD-8	H.M.	PTD-9	●		●		●	●	●					2	1
110	WASH ROOM	Interior	RH	3070	2A	7 1/4"				1 3/4"	S.C.	PL-1	STL.	DF-1	●	●										5	5
111	SERVER	Interior	RH	3070	2A	7 1/4"				1 3/4"	S.C.	PL-1	STL.	DF-1		●		●								6	
112	LOCKERS	Interior	RH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1	●	●										5	5
113	UNI-SEX R/R	Interior	LH	3070	3	7 1/4"				1 3/4"	H.M.	PTD-8	H.M.	PTD-9	●	●										4	5
114	UNI-SEX R/R	Interior	LH	3070	2A	7 1/4"				1 3/4"	S.C.	PL-1	STL.	DF-1	●											4	5



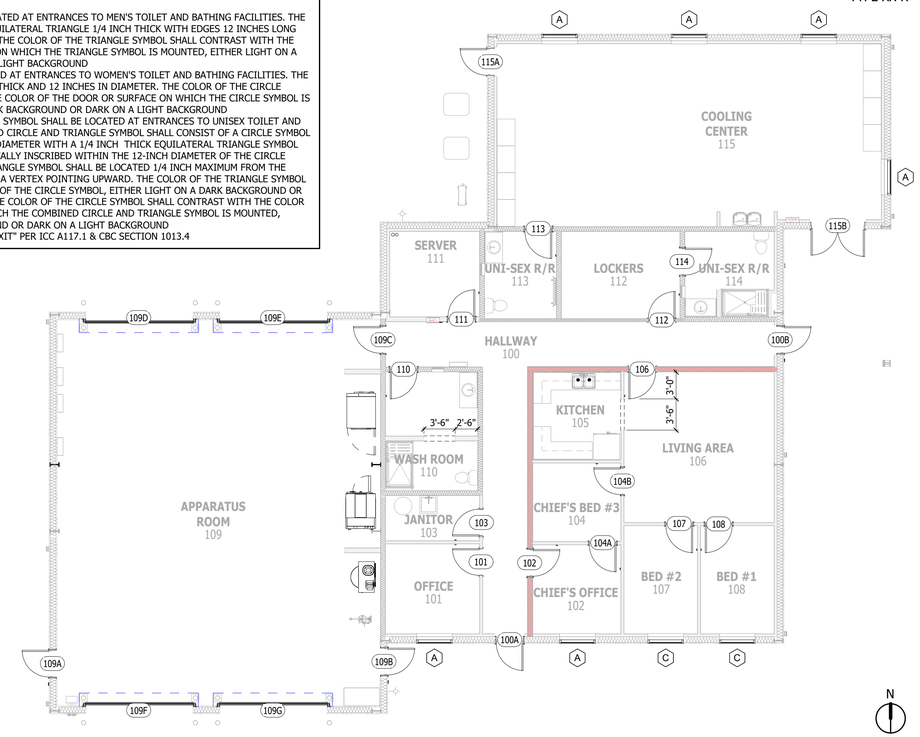
1 = HOLLOW METAL
2 = SOLID CORE

A = NO LITE
B = VISION LITE
C = FULL LITE

OPENING
WINDOW
CONSTRUCTION

TYPE XX-X

***RE: A3.10 FOR WALL ID TAGS**



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01 DOOR/WINDOW LOCATION PLAN

1/8" = 1'-0"

DOOR TYPES

N.T.S.

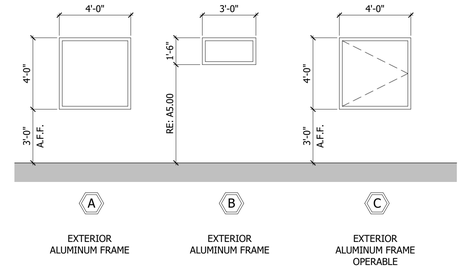
EXTERIOR GLAZING SCHEDULE AND NOTES		
TAG	SIZE	REMARKS
A	4'-0" x 4'-0"	PROVIDE WINDOW BLINDS
B	3'-0" x 1'-6"	
C	4'-0" x 4'-0"	PROVIDE WINDOW BLINDS OPERABLE FROM INSIDE

GLAZING SUBJECT TO HUMAN IMPACT LOADS AND IN ALL HAZARDOUS LOCATIONS SHALL COMPLY WITH CBC SECTION 2406 (INCLUDING 2406.1, 2406.2, 2406.3, & 2406.4.1 through 2604.4.7). STOREFRONT GLASS DOORS AND ADJACENT GLASS PANELS SHALL BE SAFETY/IMPACT RESISTANT GLASS

STOREFRONT GLASS DOORS AND ADJACENT GLASS PANELS SHALL BE SAFETY/IMPACT RESISTANT GLASS

ALL EXTERIOR GLAZING TO BE 1" INSULATED TEMPERED TINTED, LOW-E - GLASS COLOR TO BE PPG OPTIGRAY 23 OR APPROVED EQUAL - SYSTEM TO BE DESIGNED FOR LATEST ADOPTED EDITION OF APPLICABLE BUILDING CODES

GLAZING VENDOR TO FIELD VERIFY ALL MEASUREMENTS AND PROVIDE SHOP DRAWINGS FOR ARCHITECT REVIEW PRIOR TO FABRICATION



WINDOW TYPES

The Holt Group, Inc.
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Palm Desert CA. 92211
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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M HOLT C-32576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

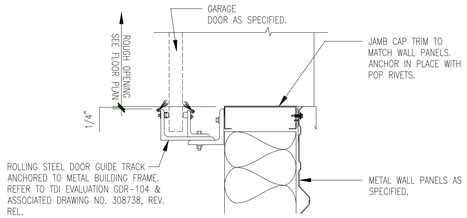
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

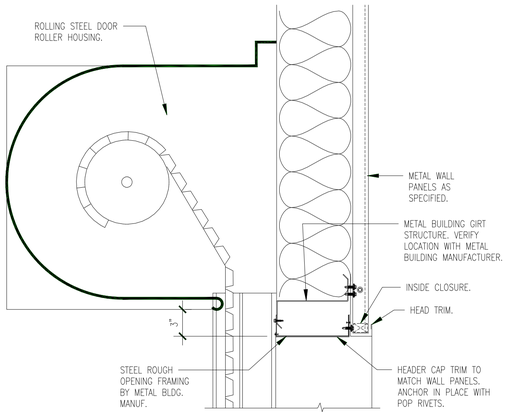
SHEET CONTENT:
DOOR, WINDOW, & HARDWARE SCHEDULES

SHEET
A9.20
OF ___ SHEETS

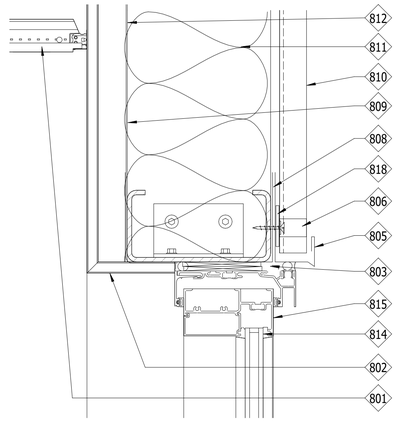
JOB NO.
1509-00



16 OH DOOR JAMB
1 1/2" = 1'-0"

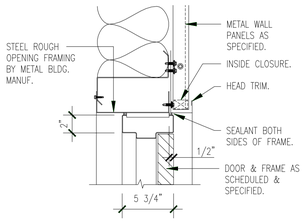


12 OH DOOR HEAD
1 1/2" = 1'-0"

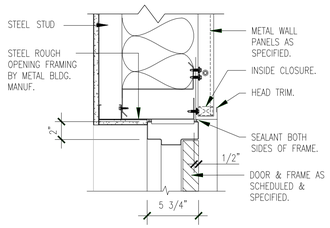


07 EXTERIOR WINDOW HEAD
3" = 1'-0"

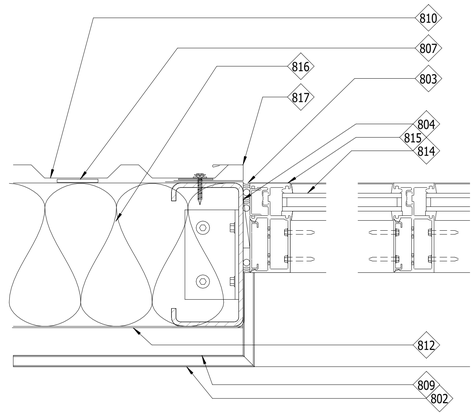
KEYNOTES ◇XXX	
801	SCHED. CEILING
802	GYPSUM BOARD
803	BACKER ROD & SEALANT
804	HEAD/JAMB COVER
805	HEAD TRIM
806	INSIDE CLOSURE
807	THERMAL BREAK TAPE
808	CHANNEL CLOSURE FLASH
809	METAL STUDS
810	MTL WALL PANEL
811	SPEC. WALL INSULATTION
812	SKYLINER SYSTEM W/BANDING
814	SCHED. GLAZING
815	STOREFRONT SYSTEM
816	BATT INSULATION
817	JAMB TRIM
818	THERMAL BREAK TAPE
830	SCHEDULED WINDOW
832	SILL TRIM
833	INSIDE CLOSURE



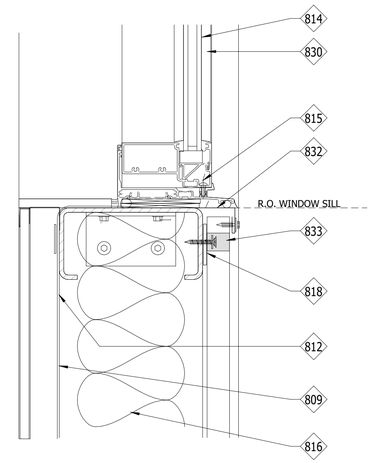
02 HM DOOR HEAD UNFINISHED
1 1/2" = 1'-0"



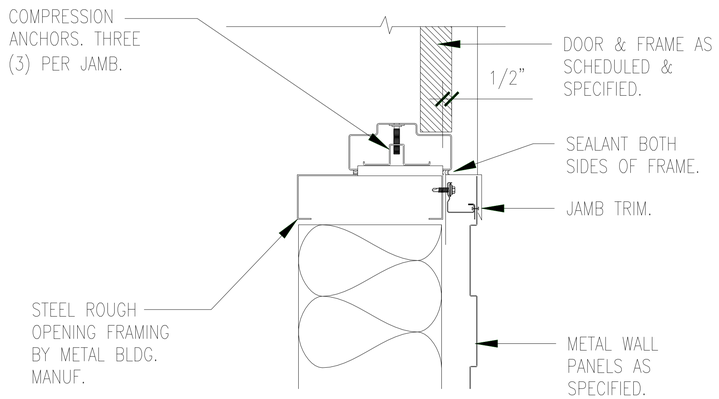
03 HM DOOR HEAD FINISHED
1 1/2" = 1'-0"



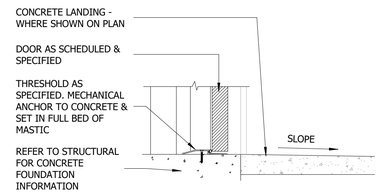
06 EXTERIOR WINDOW JAMB
3" = 1'-0"



05 EXTERIOR WINDOW SILL
3" = 1'-0"



14 EXT. HM DOOR JAMB
3" = 1'-0"



01 HM DOOR THRESHOLD
1 1/2" = 1'-0"

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DESIGN BY: ____
DRAWN BY: LMH
CHECKED BY: NEB

ADVANCED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
DOOR & WINDOW DETAILS

SHEET
A9.30
OF ___ SHEETS
JOB NO.
1509-00

WALL FINISH LEVEL INFORMATION

LEVEL 0
GYP. BD. SCREWED TO STUDS - NO TAPING, FINISHING, OR ACCESSORIES REQUIRED

LEVEL 1
ALL JOINTS AND INTERIOR ANGLES HAVE TAPE EMBEDDED IN COMPOUND

LEVEL 2
THIN COATING OF COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. ALL CORNER BOARDS AND FASTENERS COVERED IN ONE COAT OF COMPOUND.

LEVEL 3
ADDITIONAL COATING OF COMPOUND OVER JOINTS AND INTERIOR ANGLES. SMOOTH AND FREE OF TOOL MARKS AND RIDGES. ALL CORNER BOARDS AND FASTENERS COVERED IN TWO COATS OF COMPOUND.

LEVEL 4
ANOTHER COATING OF COMPOUND OVER FLAT JOINTS, SMOOTH AND FREE OF TOOL MARKS OR RIDGES. ALL CORNER BOARDS AND FASTENERS COVERED IN THREE COATS OF COMPOUND.

LEVEL 5
SKIM COAT APPLIED OVER A SANDED LEVEL 4 FINISH ON ENTIRE SURFACE. SURFACE SMOOTH AND FREE OF TOOL MARKS OR RIDGES

5. FIRE RATED PARTITIONS

A. ALL COMPONENTS OF FIRE RATED PARTITION TYPES/ASSEMBLIES SHALL BE INSTALLED PER THE REFERENCED ASSEMBLY, INCLUDING PACKING MATERIALS, WALLBOARD BATTENS, AND FILL MATERIALS WHERE THE PARTITION TERMINATES AT THE UNDERSIDE OF A METAL DECK.

B. SUFFIXES "-1, -2, -3" ETC. FOLLOWING THE BASIC PARTITION TYPE REFER TO THE FIRE RESISTIVE RATING OF THE PARTITION TYPE. FOR EXAMPLE, "C1-1" WOULD REFER TO PARTITION TYPE C1, BUT CONSTRUCTED TO MEET 1 HOUR RESISTIVE ASSEMBLY AS INDICATED.

C. 5/8" GYPSUM BOARD TYPICAL; TYPE "X" FIRE-RESISTIVE GYP. BD. AT ALL RATED ASSEMBLIES.

PARTITION LIMITING HEIGHTS

FRAMING MEMBER		COMPOSITE		NON-COMPOSITE BRACED @ 48"		NON-COMPOSITE FULLY BRACED		
SECTION	SPACING	L/240	L/360	L/240	L/360	L/240	L/360	Lu (in)
162S125-18 (1 5/8")	12	11'-1"	9'-10"	7'-10"	6'-11"	7'-8"	6'-8"	29.0
	16	10'-1"	8'-11"	7'-1"	6'-3"	6'-11"	6'-1"	
	24	8'-9"	7'-9"	5'-11"	5'-5"	6'-1"	5'-4"	
162S125-27	12	11'-8"	10'-2"	9'-0"	7'-10"	8'-11"	7'-10"	29.1
	16	10'-7"	9'-1"	8'-2"	7'-2"	8'-2"	7'-1"	
	24	9'-1"	--	7'-1"	6'-3"	7'-1"	6'-3"	
162S125-30	12	11'-10"	10'-4"	9'-3"	8'-1"	9'-3"	8'-1"	29.2
	16	10'-9"	9'-4"	8'-5"	7'-4"	8'-5"	7'-4"	
	24	9'-4"	7'-11"	7'-4"	6'-5"	7'-4"	6'-5"	
250S125-18 (2 1/2")	12	14'-2"	12'-9"	10'-9"	9'-6"	10'-6"	9'-2"	**29.0**
	16	**12'-10"**	**11'-7"**	**9'-8"**	**8'-7"**	**9'-7"**	**8'-4"**	
	24	11'-3"	10'-2"	8'-2"	7'-6"	8'-3"	7'-4"	
250S125-27	12	15'-4"	13'-9"	12'-5"	10'-10"	12'-4"	10'-10"	28.9
	16	13'-11"	12'-5"	11'-3"	9'-11"	11'-3"	9'-10"	
	24	12'-2"	10'-11"	9'-10"	8'-7"	9'-10"	8'-7"	
250S125-30	12	15'-10"	14'-1"	12'-10"	11'-3"	12'-9"	11'-2"	28.9
	16	14'-5"	12'-10"	11'-8"	10'-2"	11'-7"	10'-2"	
	24	12'-7"	11'-2"	10'-2"	8'-11"	10'-2"	8'-10"	
362S125-18 (3 5/8")	12	16'-8"	14'-7"	13'-1"	12'-7"	14'-0"	12'-6"	**29.0**
	16	**15'-2"**	**13'-3"**	**11'-4"**	**11'-4"**	**12'-2"**	**11'-4"**	
	24	13'-2"	11'-6"	9'-3"	9'-3"	9'-11"	9'-11"	
362S125-27	12	18'-2"	15'-10"	16'-6"	14'-6"	16'-6"	14'-5"	28.9
	16	16'-6"	14'-5"	15'-0"	13'-2"	15'-0"	13'-1"	
	24	14'-5"	12'-6"	12'-5"	11'-5"	13'-1"	11'-5"	
362S125-30	12	18'-3"	16'-4"	17'-1"	14'-11"	17'-0"	14'-10"	28.9
	16	16'-7"	14'-10"	15'-6"	13'-7"	15'-6"	13'-6"	
	24	14'-6"	12'-11"	13'-4"	11'-10"	13'-6"	11'-10"	
600S125-18 (6")	12	22'-9"	19'-11"					
	16	**20'-1"**	**18'-1"**					
	24	16'-4"	15'-10"					
600S125-27	12	26'-9"	23'-5"	24'-5"	21'-6"	24'-4"	21'-3"	**27.7**
	16	24'-4"	21'-3"	**21'-5"**	**19'-6"**	**21'-6"**	**19'-4"**	
	24	21'-3"	18'-7"	17'-6"	17'-0"	17'-7"	16'-10"	
600S125-30	12	27'-1"	23'-8"	25'-4"	22'-4"	25'-2"	22'-0"	27.6
	16	24'-7"	21'-6"	23'-0"	20'-3"	22'-11"	20'-0"	
	24	21'-6"	18'-9"	18'-10"	17'-7"	18'-11"	17'-6"	
800S125-43 (8")	12			36'-6"	31'-11"	36'-1"	36'-1"	**26.3**
	16			**33'-1"**	**29'-0"**	**32'-9"**	**28'-8"**	
	24			28'-4"	25'-4"	28'-8"	25'-0"	
800S125-54	12			39'-2"	34'-3"	38'-9"	33'-10"	21.1
	16			35'-7"	31'-1"	35'-2"	30'-9"	
	24			31'-1"	27'-2"	30'-9"	26'-10"	
800S125-68	12			42'-0"	36'-8"	41'-11"	36'-8"	20.8
	16			38'-2"	33'-4"	38'-1"	33'-4"	
	24			33'-4"	29'-1"	33'-4"	29'-1"	
SHAFT WALL - 1 HR								
212CH25-18	24	10'-7"	9'-4"					
400CH25-18	24	14'-5"	12'-9"					
600CH20-34	24	15'-2"	14'-8"					
SHAFT WALL - 2 HR								
212CH25-18	24	11'-2"	9'-10"					
400CH25-18	24	15'-7"	13'-11"					
600CH20-34	24	21'-9"	20'-0"					

LIMITING HEIGHTS

1. AT CONDITIONS WHERE A PARTITION EXCEEDS THE LIMITING HEIGHT LISTED FOR THAT TYPE, REDUCE STUD SPACING OR PROVIDE HEAVIER GAUGE FRAMING MEMBERS PER TABLE BELOW, OR APPLICABLE LOCAL CODES, WHICHEVER IS MORE STRINGENT. ALTERNATELY, PROVIDE DIAGONAL BRACING TO STRUCTURE AT OR BELOW THE LIMITING HEIGHT, PER PARTITION ATTACHMENT DETAILS.
2. L/240 AND L/360 VALUES ARE FOR 5 PSF LATERAL LOAD. VERIFY AND COMPLY WITH LOCAL CODE REQUIREMENTS.
3. TYPICAL ALLOWABLE DEFLECTION DESIGN CRITERIA RATIO IS L/240. USE L/360 WHERE BRITTLE FINISHES WILL BE APPLIED SUCH AS PLASTER OR TILE.
4. TABLE VALUES ARE FROM SSMA (STEEL STUD MANUFACTURERS ASSOCIATION) TECHNICAL GUIDE (EFFECTIVE 9/5/2014) COMPLYING WITH 2015, 2012, 2009, & 2006 IBC, AND ARE PROVIDED FOR REFERENCE ONLY. VERIFY AND COMPLY WITH LOCAL CODE REQUIREMENTS.

1. SOUND RATED PARTITIONS

A. SOUND RATED PARTITIONS AND PARTITIONS WITH THERMAL INSULATION ARE GRAPHICALLY INDICATED IN FLOOR PLAN. REFER TO FLOOR PLANS FOR LOCATIONS.

B. STC RATINGS FOR PARTITIONS ARE BASED ON LABORATORY-TESTED ASSEMBLIES, AND DO NOT NECESSARILY INDICATE THE ACTUAL STC RATING OF THE COMPLETED ASSEMBLY.

C. PROVIDE THE FOLLOWING ACOUST. INSULATION THICKNESSES (U.N.O):
2 1/2" THICK SOUND ATTENUATION BLANKETS AT 2 1/2" STUD PARTITIONS;
3" THICK SOUND ATTENUATION BLANKETS AT 3 5/8" STUD PARTITIONS;
4" SOUND ATTENUATION BLANKETS AT > 3 5/8" STUD PARTITIONS;
3" SOUND ATTENUTATION BLANKETS EXTENDING MIN. 24" BOTH SIDES OF PARTITION, AT ABOVE CLG. LOCATIONS U.N.O.

D. FILL ALL DECK VOIDS ABOVE PARTITIONS WITH SOUND ATTENUATION AND APPROPRIATE SEALANT. SEAL TOPS OF FIRE RATED PARTITIONS TO MATCH FIRE RATING OF THE WALL ASSEMBLY.

E. SEAL PARTITION PERIMETER AND ALL PENETRATIONS WITH ACOUSTICAL SEALANT.

F. PROVIDE "ACOUSTIC PUTTY PADS" BEHIND ALL SWITCH, RECEPTACLE OR MISC. WALL MOUNTED JUNCTION OR BACK BOXES, TYPICAL.

2. DAMP LOCATIONS

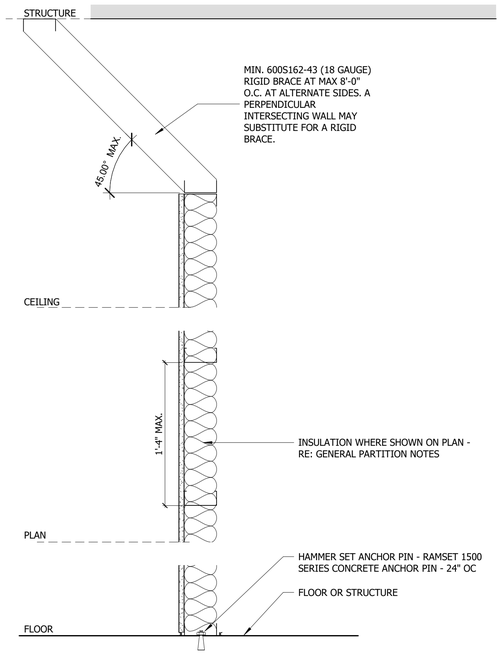
A. PROVIDE MOISTURE-RESISTANT GYPSUM BOARD AT PARTITIONS RECEIVING TILE AND/OR PLASTIC-FACED WALL PANELS. REFER TO ROOM FINISH SCHEDULE FOR LOCATIONS.

3. BRACING

A. RIGIDLY BRACE AT DOOR JAMBS.

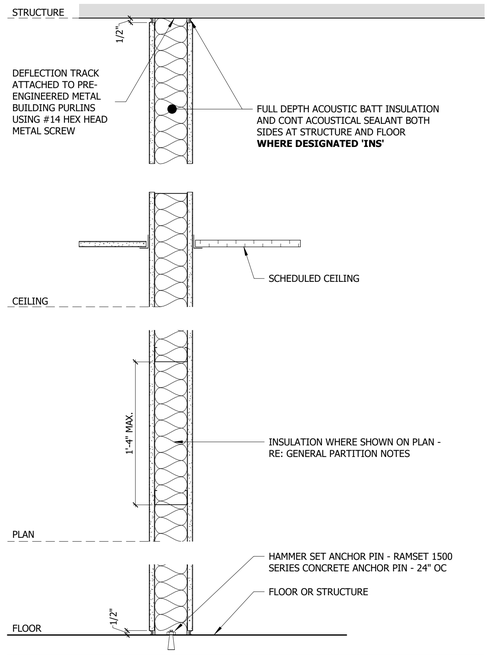
4. BLOCKING

A. PROVIDE METAL STUD OR STEEL BLOCKING (AND/OR FIRE-RETARDANT 2X WOOD BLOCKING WHERE PERMITTED BY CODE) ADEQUATE TO SUPPORT GRAB BARS, HANDRAILS, TRIM, MOULDINGS, WALL MOUNTED EQUIPMENT AND FIXTURES AS SCHEDULED OR NOTED ELSEWHERE. ALL BLOCKING MUST PROVIDE ADEQUATE STRUCTURAL SUPPORT TO MEET ALL APPLICABLE CODES RELATED TO SUCH ITEMS.



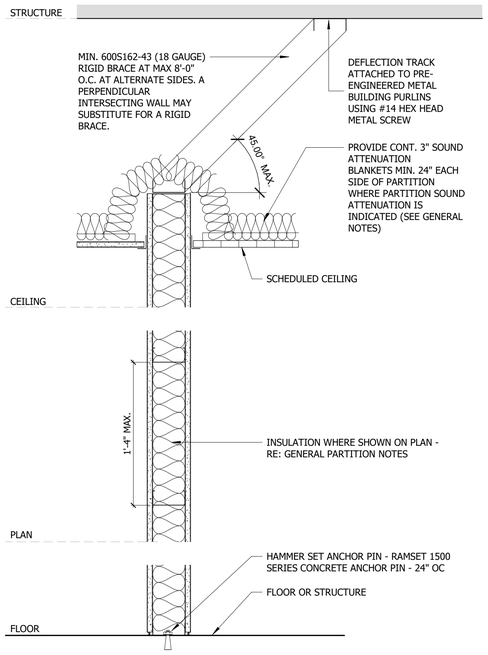
MIN. 25 GAUGE METAL STUDS AT 16" O.C. W/ 1 LAYER 5/8" GYP BOARD EACH SIDE				
TYPE MARK	FRAMING MEMBERS		PARTITION WIDTH	STC
	PRODUCT #	METAL STUD SIZE		MIN/INSULATED
E1	250S125-8	2 1/2"	3 1/8"	N/A
E2	362S125-18	3 5/8"	4 1/4"	N/A
E3	400S125-18	4"	4 5/8"	N/A
E4	600S125-27	6"	6 5/8"	N/A

13 PARTITION TYPE "E"
1 1/2" = 1'-0"



MIN. 25 GAUGE METAL STUDS AT 16" O.C. W/ 1 LAYER 5/8" GYP BOARD EACH SIDE					
TYPE MARK	FRAMING MEMBERS		PARTITION WIDTH	UL #	STC
	PRODUCT #	METAL STUD SIZE			MIN/INSULATED
C1	250S125-18	2 1/2"	3 3/4"		38/45
C2	362S125-18	3 5/8"	4 7/8"		43/48
C3	600S125-18	6"	7 1/4"		43/48
C3-1	600S125-18	6"	7 7/8"	UL419	50
C4	800S125-43 18 GA	8"	9 1/4"		

09 PARTITION TYPE "C"
1 1/2" = 1'-0"



MIN. 25 GAUGE METAL STUDS AT 16" O.C. W/ 1 LAYER 5/8" GYP BOARD EACH SIDE				
TYPE MARK	FRAMING MEMBERS		PARTITION WIDTH	STC
	PRODUCT #	METAL STUD SIZE		MIN/INSULATED
B1	250S125-18	2 1/2"	3 3/4"	38/45
B2	362S125-18	3 5/8"	4 7/8"	43/48
B3	600S125-18	6"	7 1/4"	43/48

02 PARTITION TYPE "B"
1 1/2" = 1'-0"

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DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENSED ARCHITECT TIMOTHY M. HOLT C-12576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

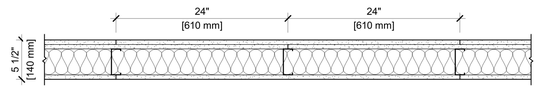
PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

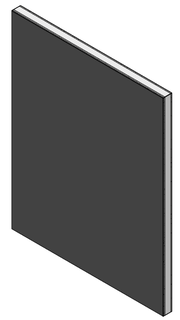
SHEET CONTENT:
PARTITION TYPES

SHEET
A9.50
OF ___ SHEETS
JOB NO.
1509-00

DESIGN NO. **UL U419**

FIRE RATING:	1 HOUR
STC RATING:	50
SOUND TEST:	USG-160727
SYSTEM THICKNESS:	5-1/2" [140 MM]
LOCATION:	INTERIOR
FRAMING TYPE:	STEEL STUD (NONLOAD-BEARING)





ASSEMBLY REQUIREMENTS:

GYPSUM PANELS:	TWO LAYERS 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)
STEEL STUDS:	3-5/8" [92 MM] STEEL STUDS, EQ20 (0.018"), 24" [610 MM] O.C.
INSULATION:	3-1/2" [89 MM] FIBERGLASS INSULATION
GYPSUM PANELS:	ONE LAYER 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)

GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDICATES "PER", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

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UL U419

ISSUE RECORD:
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01 UL 419 - FIRE RESISTANCE RATED INT. WALL - 1-HR 50 STC
12" = 1'-0"

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENSED ARCHITECT TIMOTHY M. HOLT C-12576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
UL ASSEMBLIES

SHEET
A9.60
OF ___ SHEETS
JOB NO.
1509-00

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	3
25-50	6
51-75	9
76-100	12
101-150	18
151-200	21
201 AND OVER	AT LEAST 12% OF TOTAL[1]

1.Calculation for spaces shall be rounded up to the nearest whole number.

Note: Designated parking for clean air vehicles shall count towards the total parking spaces required by the local enforcing agencies.

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	2
26-50	4
51-75	7
76-100	9
101-150	13
151-200	18
201 AND OVER	10% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

Note: Future electric vehicle charging spaces shall count towards the total parking spaces required by the local enforcing agencies.

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING - (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade trees plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG] *California Energy Code [DSA-SS].* For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

01 2019 CALGREEN NONRESIDENTIAL MANDATORY MEASURES NOTES
1 1/2" = 1'-0"

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES

SHEET A9.80
OF ___ SHEETS
JOB NO. 1509-00

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) *of California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certification or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

01 2019 CALGREEN NONRESIDENTIAL MANDATORY MEASURES NOTES
1 1/2" = 1'-0"

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DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENSED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
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SHEET A9.81
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JOB NO. 1509-00

AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

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RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y | N/A | RESPON. PARTY

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

Y | N/A | RESPON. PARTY

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

Y | N/A | RESPON. PARTY

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

Y | N/A | RESPON. PARTY

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^0 Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (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, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

DISCLAIMER:*THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

01 2019 CALGREEN NONRESIDENTIAL MANDATORY MEASURES NOTES
1 1/2" = 1'-0"

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

UNAUTHORIZED CHANGES & USES: The architect preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M HOLT C-12576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

Timothy M. Holt

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES

SHEET A9.82

OF ___ SHEETS

JOB NO. 1509-00

ELECTRICAL LEGEND

POWER

- SIMPLEX 20A OUTLET. +18" AFF UNO.
- SWITCHED DUPLEX 20A OUTLET. +18" AFF UNO. PROVIDE PERMANENT LABEL INDICATING "CONTROLLED".
- DUPLEX 20A OUTLET. +18" AFF UNO.
- TR DUPLEX 20A TAMPER RESISTANT OUTLET. +18" AFF UNO.
- AFCI DUPLEX 20A OUTLET. +18" AFF UNO WITH ARC FAULT CIRCUIT INTERRUPTER.
- TR AFCI DUPLEX 20A TAMPER RESISTANT OUTLET. +18" AFF UNO WITH ARC FAULT CIRCUIT INTERRUPTER.
- DUPLEX 20A OUTLET. MOUNTED ABOVE COUNTER UNO.
- DUPLEX 20A OUTLET. +18" AFF UNO WITH GROUND FAULT INTERRUPTION PROTECTION.
- DUPLEX 20A OUTLET. MOUNTED ABOVE COUNTER UNO WITH GROUND FAULT INTERRUPTION PROTECTION.
- AFCI DUPLEX 20A OUTLET. +18" AFF UNO WITH ARC FAULT CIRCUIT INTERRUPTER/GROUND FAULT INTERRUPTION PROTECTION.
- AFCI DUPLEX 20A OUTLET. MOUNTED ABOVE COUNTER UNO WITH ARC FAULT CIRCUIT INTERRUPTER/GROUND FAULT INTERRUPTION PROTECTION.
- DUPLEX 20A OUTLET WITH INTEGRATED USB CHARGING OUTLETS. +18" AFF UNO.
- DUPLEX 20A ISOLATED GROUND OUTLET. +18" AFF UNO.
- DUPLEX 20A ISOLATED GROUND OUTLET. MOUNTED ABOVE COUNTER UNO.
- FOURPLEX 20A OUTLET. +18" AFF UNO.
- FOURPLEX 20A ISOLATED GROUND OUTLET. +18" AFF UNO.
- FOURPLEX 20A OUTLET. MOUNTED ABOVE COUNTER UNO.
- FOURPLEX 20A ISOLATED GROUND OUTLET. MOUNTED ABOVE COUNTER UNO.
- SPECIAL PURPOSE OUTLET. COORDINATE OUTLET TYPE WITH EQUIPMENT SUPPLIED.
- CONNECTION POINT TO EQUIPMENT SPECIFIED, FURNISHED AND INSTALLED UNDER OTHER SECTIONS. ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY, CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION, UNO.
- SPECIAL PURPOSE OUTLET. FLUSH, FLOOR MOUNTED.
- DUPLEX 20A OUTLET. FLUSH, FLOOR MOUNTED.
- DUPLEX 20A ISOLATED GROUND OUTLET. FLUSH, FLOOR MOUNTED.
- FOURPLEX 20A OUTLET. FLUSH, FLOOR MOUNTED.
- WIREMOLD OUTLET.
- M MOTOR CONNECTION. RE: MECHANCIAL EQUIPMENT SCHEDULE
- POWERPOLE – DUAL CHANNEL.
- PAD MOUNT TRANSFORMER.
- MOTOR STARTER/CONTACTOR.
- COMBINATION STARTER AND DISCONNECT.
- X NON-FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.
- F X FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.

MISCELLANEOUS

- J JUNCTION BOX.
- J JUNCTION BOX, WALL MOUNTED.
- T X THERMOSTAT. COORDINATE MOUNTING HEIGHT WITH MECHANICAL. UNIT CONTROLLED INDICATED.
- H X HUMIDISTAT. COORDINATE MOUNTING HEIGHT WITH MECHANICAL. UNIT CONTROLLED INDICATED.
- SURFACE MOUNTED PANELBOARD/ENCLOSURE. SEE SCHEDULE FOR TYPE.
- FLUSH MOUNTED PANELBOARD/ENCLOSURE. SEE SCHEDULE FOR TYPE.
- NAME MECHANICAL EQUIPMENT SYMBOL (RE: MECHANICAL DRAWINGS FOR EXACT LOCATION OF UNITS).
- ### INDICATES FIXTURE TYPE. REFER TO LUMINARE SCHEDULE.

LIGHTING (SEE LUMINAIRE SCHEDULE FOR EXACT REQUIREMENTS)

- SINGLE FACE EXIT SIGN. CEILING MOUNTED.
- DOUBLE FACE EXIT SIGN. CEILING MOUNTED.
- SINGLE FACE EXIT SIGN. WALL MOUNTED.
- DOUBLE FACE EXIT SIGN. WALL MOUNTED.
- SINGLE FACE COMBO EXIT SIGN/EMERGENCY LUMINAIRE. WALL MOUNTED.
- ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
- LIGHT FIXTURE.
- LIGHT FIXTURE.
- LIGHT FIXTURE.
- SUSPENDED LIGHT FIXTURE.
- WALL MOUNTED FIXTURE.
- WALL SCONCE FIXTURE.
- WALL PACK FIXTURE.
- UNDERCABINET MOUNTED FIXTURE.
- TRACKLIGHT.
- PENDANT LIGHT FIXTURE.
- ROUND DECORATIVE LIGHT FIXTURE. SURFACE MOUNT
- RECESSED LIGHT FIXTURE.
- RECESSED WALL WASH LIGHT FIXTURE.
- PORCELAIN LAMP HOLDER.
- WALL MOUNTED PORCELAIN LAMP HOLDER.
- CEILING FAN.
- CEILING FAN WITH LIGHT KIT.
- POLE LIGHT 1 HEAD ROUND WITH POLE.
- POLE LIGHT 2 HEAD ROUND WITH POLE.
- POLE LIGHT 1 HEAD SQUARE WITH POLE.
- POLE LIGHT 2 HEAD SQUARE WITH POLE.
- BOLLARD LIGHT.
- DECORATIVE POST-TOP LIGHT.
- SPOT/FLOOD LIGHT.
- EMERGENCY EGRESS LIGHT. WALL MOUNTED.
- EMERGENCY EGRESS LIGHT. CEILING MOUNTED.

SWITCHES

- S^{a} SWITCH. TYPE AS INDICATED. +46"AFF, UNO.
  - 2 DOUBLE POLE
  - 3 3-WAY
  - 4 4-WAY
  - D DIMMER
  - HP HORSEPOWER RATED
  - K KEYED
  - LV LOW VOLTAGE
  - M MOMENTARY CONTACT
  - MM MANUAL MOTOR STARTER
  - OS OCCUPANCY SENSOR
  - P PILOT LIGHT
  - T TIMER
  - TO THERMAL OVERLOAD
  - V VOLUME CONTROL
  - VS VACANCY SENSOR
  - a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- MULTI-LEVEL SWITCHING, TO MEET LIGHT REDUCTION LEVELS PER ENERGY CODE AS SHOWN. PROVIDE ADDITIONAL OR STEP-DIMMING BALLASTS WHERE REQUIRED.
- OS OCCUPANCY SENSOR. CEILING MOUNTED.
- P PHOTOCELL. WALL MOUNTED.
- P PHOTOCELL. CEILING MOUNTED.
- T TIMECLOCK. WALL MOUNTED.
- SINGLE BUTTON, WALL MOUNTED PUSHBUTTON. MOUNT AT SWITCH HEIGHT UNO.
- THREE BUTTON, WALL MOUNTED PUSHBUTTON. MOUNT AT SWITCH HEIGHT UNO.
- MOTOR STARTER/CONTACTOR.
- COMBINATION STARTER AND DISCONNECT.
- X NON-FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.
- F X FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.

CIRCUITING SYMBOLS

- CONDUIT STUBBED, CAPPED, AND MARKED WITH PULL CORD.
- CONDUIT UP.
- CONDUIT DOWN.
- X-# HOMERUN. PANEL AND CIRCUIT AS INDICATED.
- CIRCUIT CONCEALED IN CEILING OR WALL. 3/4"-2#12,1#12G UNO.
- CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND. 3/4"-2#12,1#12G UNO.

X"-X#X,X#XG — QUANTITY; GROUNDING CONDUCTOR SIZE; CONDUCTOR SIZE; RACEWAY SIZE

ONE LINE

- BRANCH PANEL. (BRANCH PANEL ######)
- A CIRCUIT BREAKER. SIZE AND TYPE AS SPECIFIED.
- 30AF 30AT CIRCUIT BREAKER. FRAME SIZE (AF) AND TRIP PLUG/RATING (AT), 3 POLE, UNO.
- 15A FUSE. SIZE AND TYPE AS SPECIFIED, PROVIDE FUSE FOR EACH POLE, 3 POLE, UNO.
- 30A INTERRUPTER SWITCH. SIZE AS INDICATED, 3 POLE, UNO.
- 30AS 30AF FUSED SWITCH. SWITCH SIZE (AS) & FUSE SIZE (AF) AS INDICATED, 3 POLE, UNO.
- DRAW OUT CIRCUIT BREAKER FRAME (AF) SIZE AND TRIP PLUG RATING (AT), 3 POLE, UNO.
- INDIVIDUAL BREAKER FRAME (AF) SIZE AND TRIP PLUG RATING (AT), NEMA 1 UNO, 3 POLE UNO.
- M METER.
- AM AMMETER.
- VM VOLTMETER.
- K KIRK KEY LOCK.
- GFP GROUND FAULT PROTECTION.
- TVSS TRANSIENT VOLTAGE SURGE SUPRESSION.
- ST SHUNT TRIP COIL.
- KWH KILOWATT HOUR METER.
- KVAR KILOVAR DEMAND METER.
- TEST TEST BLOCK.
- OVERHEAD SERVICE DROP.
- GENERATOR SET. MAIN BREAKER SIZE INDICATED.
- TRANSFER SWITCH.
- GUTTER.
- M METER AND BASE.
- NEUTRAL NEUTRAL.
- TRANSFORMER

COMMUNICATIONS

- TELEPHONE OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING. LOCATED AT 18" AFF UNO.
- TELEPHONE OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING. LOCATED ABOVE COUNTER UNO.
- TELEPHONE/DATA OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING. LOCATED AT +18" AFF UNO.
- DATA OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING. LOCATED AT 18" AFF UNO.
- DATA OUTLET, FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANG MUDRING. LOCATED ABOVE COUNTER UNO.
- WIFI CONNECTION. FOUR-SQUARE DEEP TYPE BOX WITH SINGLE GANGE MUDRING. CEILING MOUNTED.
- TELEPHONE OUTLET. FLUSH, FLOOR MOUNTED.
- TELEPHONE/DATA OUTLET. FLUSH, FLOOR MOUNTED.
- DATA OUTLET. FLUSH, FLOOR MOUNTED.
- SPEAKER. CEILING MOUNTED WITH BACKBOX.
- SPEAKER. WALL MOUNTED WITH BACKBOX +80" UNO.
- TELEVISION OUTLET, SINGLE-GANG BOX WITH MUDRING. +18" AFF UNO.
- TELEVISION OUTLET, SINGLE-GANG BOX WITH MUDRING. CEILING MOUNTED.
- TELEVISION OUTLET. FLUSH, FLOOR MOUNTED.
- KP KEY PAD, WALL MOUNTED.

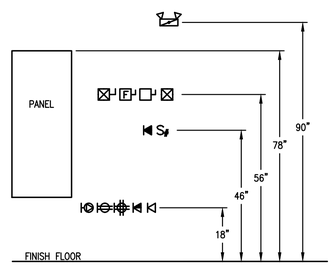
NOTE:
PROVIDE 1/2"CO TO VOID ABOVE CEILING FOR ALL WALL MOUNTED DEVICES. PROVIDE 3/4"CO TO VOID ABOVE CEILING FOR ALL FLOOR MOUNTED DEVICES.

ABBREVIATIONS & DESCRIPTIONS

A	AMPERES
AC	ABOVE COUNTER; REFER TO ARCHITECTURAL ELEVATIONS FOR REQUIRED HEIGHT.
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMPERE FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPT
AHJ	AUTHORITY HAVING JURISDICTION
AT	AMP TRIP
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CRASH CART
CCP	CASE CONTROLLER PANEL
CKT	CIRCUIT
CL	CRITICAL LOAD
CM	CEILING MOUNTED
CO	CONDUIT ONLY, PROVIDE PULL-LINE
(D)	DEMOLITION
D	MECHANICAL DUCT-MOUNTED DEVICE
DC	DIRECT CURRENT
DET	DETAIL
E	EMERGENCY/CRITICAL CARE
(E)	EXISTING
EF	EXHAUST FAN
EL	EMERGENCY LIGHT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FVNR	FULL VOLTAGE NON-REVERSING
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTION
GFP	GROUND FAULT PROTECTION
H	HEAT
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTO
HP	HOUSE PHONE
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HS	HOUSE SIDE SHIELD
I	IONIZATION
ID	IN-DUCT
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
INT	INTERCOM
J/JB	JUNCTION BOX
KW	KILOWATT
KWH	KILOWATT HOUR
M	MAGNETIC CONTACTOR COIL
MB	MAIN BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MH	MANHOLE
MW	MICROWAVE
(N)	NEW
N	NEUTRAL
NC	NORMALLY CLOSED
NCL	NON CRITICAL LOAD
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PHASE
PC	PHOTOCELL
PVC	POLYVINYL CHLORIDE
RCPT	RECEPTACLE
(R)	RELOCATED
RE:	REFER TO
REF	REFRIGERATOR
SER	SERVICE ENTRANCE RATED
SPST	SINGLE POLE SINGLE THROW
TC	TIME CLOCK
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TR	TAMPER RESISTANT
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT AMPERE
WG	PROVIDE PROTECTIVE WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER

SHEET INDEX

MOUNTING HEIGHTS DETAIL



NOTE: ALL MOUNTING HEIGHTS SHALL MEET ADA REQUIREMENTS UNLESS OTHERWISE INDICATED.

GENERAL ELECTRICAL NOTES

(APPLIES TO ALL ELECTRICAL SHEETS)

A. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, AND ALL OTHER STATE AND LOCAL CODES. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER IN WRITING IF PORTIONS OF THE DESIGN SET OR FIELD CONDITIONS DO NOT MEET REQUIRED CODES.

B. PROVIDE FIRESTOPPING FOR ALL FLOOR, CEILING AND FIREWALL PENETRATIONS FROM ELECTRICAL FIXTURE, DEVICE, RACEWAY, AND CABLE PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR FIREWALL ASSEMBLY LOCATIONS.

C. THE NUMBER ADJACENT TO DEVICE INDICATES POLE POSITION WITHIN PANEL TO WHICH DEVICES SHALL BE CIRCUITED. WIRE SIZE SHALL BE #12 AWG Cu UNLESS NOTED OTHERWISE ON PLANS. WIRE SIZE SHALL BE #10 AWG Cu FOR LENGTHS OF 100 FEET OR MORE UNLESS NOTED OTHERWISE ON PLANS.

D. CONDUIT AND WIRE FOR FEEDER OR BRANCH CIRCUITS SHALL NOT BE RUN ON OR ABOVE THE ROOF. ELECTRICAL SERVICES FOR ROOF-MOUNTED EQUIPMENT ARE TO BE RUN IN A STRAIGHT LINE FROM THE ROOF PENETRATION TO THE ELECTRICAL CONNECTION FOR THE UNIT SERVED.

E. DESIGN OF ELECTRICAL REQUIREMENTS IS BASED ON MECHANICAL EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR IF EQUIPMENT PURCHASED IS DIFFERENT FROM THAT SPECIFIED STILL MEETS DESIGN INTENT, INCLUDING BUT NOT LIMITED TO OVER-CURRENT PROTECTION, LOCAL DISCONNECTING MEANS, AND WIRE SIZING.

F. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.

G. ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC., MOUNTED IN THE FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL BY THIS CONTRACTOR.

H. FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS DEPICTED FROM THE PLANS AND SPECIFICATIONS. COMPLETE AS NOTED OR IMPLIED, NOT LIMITED TO WHAT IS SHOWN.

I. ALL DRAWINGS ARE SCHEMATIC IN NATURE AND ALL APPURTENANCES NOT INDICATED TO MAKE A WORKING SYSTEM MUST BE INCLUDED IN THE CONTRACTOR'S BID.

J. IF THERE APPEARS TO BE ANY ITEMS IN CONFLICT WITH THE DRAWINGS, INCONSISTENCIES WITH DESIGN OR INTENT, OR NEED FOR CLARIFICATIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY THESE ITEMS PRIOR TO BID IN WRITING WITH THE ENGINEER. IF THE CONTRACTOR FAILS TO CLARIFY ANY QUESTIONS OR INCONSISTENCY, HE ACCEPTS RESPONSIBILITY TO CORRECT AT HIS COST ANY SUCH ITEM TO MEET INTENT AS DEFINED BY THE ENGINEER.

K. EACH TRADE SUB-CONTRACTOR IS RESPONSIBLE FOR SUSPENDED SUPPORTS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL SUB-CONTRACTORS SHALL COORDINATE WITH EACH-OTHER FOR ELEVATION PRIORITY PLACEMENT OF GRADED PIPES, LARGE DUCTWORK, EQUIPMENT, CONDUIT, FIRE PROTECTION, AND LIGHTING.

L. EMERGENCY LIGHTING SYMBOLS ARE SHADED ON THE LIGHTING PLANS. EMERGENCY POWER SOURCE IS AN ON-SITE DIESEL FUELED EMERGENCY GENERATOR.

M. COORDINATE WITH CIVIL DRAWINGS FOR FINAL FUTURE EV CHARGING STATION (EVCS) LOCATIONS. CONTRACTOR TO FURNISH AND INSTALL EVCS EQUIPMENT. SPECIFICATIONS FOR EVCS TO BE PREPARED WITH DEFERRED SUBMITTALS BY CONTRACTOR. (5)

CODE AUTHORITIES

BUILDING CODE	2019 CALIFORNIA BUILDING CODE
ELECTRICAL CODE	2019 CALIFORNIA ELECTRICAL CODE
ENERGY CODE	2019 CALIFORNIA ENERGY CODE
FIRE CODE	2019 CALIFORNIA FIRE CODE
GREEN BUILDING CODE	2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
MECHANICAL CODE	2019 CALIFORNIA MECHANICAL CODE
PLUMBING CODE	2019 CALIFORNIA PLUMBING CODE

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		02/18/2022
3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY: GF
DRAWN BY: GF
CHECKED BY: IM

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Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER
WILLIAM BURTON CRABB
E 22682
ELECTRICAL
STATE OF CALIFORNIA
07/25/2022

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ELECTRICAL COVER SHEET

SHEET E0.00
OF 9 SHEETS
JOB NO. 1509-00

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations..			
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 1 of 5)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

A. GENERAL INFORMATION

01	Project Location (city)					02	Occupancy Types Within Project:		
☒	Office	☐	Retail	☐	Warehouse	☐	Hotel/Motel	☐	School	☒	Support Areas
☒	Parking Garage	☐	High-Rise Residential	☐	Relocatable	☐	Healthcare Facilities	☒	Other (write in)		See Table I

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
400A Service Rated Disconnect Switch	New electrical service equipment and meter	144	☐	☐
06 Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.			

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.*
[2] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05
Service Electrical Metering §130.5(a) (See Table F)	AND	Separation for Monitoring §130.5(b) (See Table G)	AND	Voltage Drop §130.5(c) (See Table H)	AND	Controlled Receptacles §130.5(d) (See Table I)	
Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20190401 — Report Generated: 2022-03-29 11:50:11

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 2 of 5)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)

01	02	03				04	05	
Electrical Service Designation/Description	Rating (kVA)	Required Metering Capabilities per Table 130.5-A				Location of Requirements in Construction Documents	Field Inspector	
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
400A Service Rated Disconnect Switch	144	☐	☒	☒	☐	E4.00	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 3 of 5)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the service do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
400A Service Rated Disconnect Switch					
Lighting including exit, egress and exterior	All lighting in aggregate	Method 4	E1.11, E3.00	☐	☐
HVAC systems and components	All HVAC in aggregate	Method 4	E2.11, E3.00	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	Method 4	E2.11, E3.00	☐	☐
Domestic and service water systems	All loads in aggregate	Method 4	E2.11, E3.00	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2PIII

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
400A Service Rated Disconnect Switch	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))* In construction documents	E3.00	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 4 of 5)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

H. VOLTAGE DROP

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
					Pass	Fail
400A Service Rated Disconnect Switch	Within 6ft of uncontrolled receptacle	Occupancy Sensor	☒	E1.11-E2.11	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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Electrical Power Distribution
NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 5 of 5)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: DC Engineering	Signature Date: 2022-03-29
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Bill Crabb, PE	Responsible Designer Signature:
Company: DC Engineering	Date Signed: 2022-03-29
Address: 440 E. Corporate Dr.	License: E 22682
City/State/Zip: Meridian ID 83642	Phone: 208.493.0004

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20190401 — Report Generated: 2022-03-29 11:50:11

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 1 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

A. GENERAL INFORMATION

01	Project Location (city)	Seeley	04	Total Conditioned Floor Area (ft²)	4,180
02	Climate Zone	16	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☐ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare	☒ Other (Write in)	Assembly

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	4180	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	4180		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20190401 — Report Generated: 2022-03-29 11:50:11

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 2 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned	2,926				=	2,926	2,885	0	=	2885	COMPLIES
Unconditioned					=				=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
CF	CEILING FAN WITH LED LIGHT	No	No	58	CEC Default	4	No	232	☐	☐
HB	LED HIGH BAY	No	No	134	CEC Default	12	No	1,608	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20190401 — Report Generated: 2022-03-29 11:50:11

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 3 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

R1	6" IC RATED LED RECESSED DOWNLIGHT	No	No	16	CEC Default	6	No	96	☐	☐
R2	6" LED RECESSED DOWNLIGHT	No	No	28	CEC Default	6	No	168	☐	☐
R3	6" LED RECESSED DOWNLIGHT	No	No	28	CEC Default	3	No	84	☐	☐
S4	4' LINEAR LED STRIP	No	No	20	CEC Default	23	No	460	☐	☐
T2	2'X2' LED PANEL FIXTURE	No	No	39	CEC Default	4	No	156	☐	☐
VL	LED MIRROR LIGHT	No	No	27	CEC Default	3	No	81	☐	☐
Total Designed Watts: CONDITIONED SPACES								2,885		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector	
		Pass	Fail
Required > 10,000 SF	Whole Building Other	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20190401 — Report Generated: 2022-03-29 11:50:11

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 4 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
Server Room	All Others Buildings	Manual ON/OFF	Exempt*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Office	All Others Buildings	Manual ON/OFF	Other*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Chief's Office	All Others Buildings	Manual ON/OFF	Other*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Washroom 110	All Others Buildings	Manual ON/OFF	Exempt*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Uni-Sex R/R 113	All Others Buildings	Manual ON/OFF	Exempt*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Uni-Sex R/R 114	All Others Buildings	Manual ON/OFF	Exempt*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Corridor	All Others Buildings	Manual ON/OFF	Bi-level Switch	Automatic Timer Switch	N/A	N/A	No	☐	☐
Apparatus Bay	All Others Buildings	Manual ON/OFF	Dimmer	Automatic Timer Switch	N/A	N/A	No	☐	☐
Janitor	All Others Buildings	Manual ON/OFF	Exempt*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Locker Room	All Others Buildings	Manual ON/OFF	Other*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Cooling Center	All Others Buildings	Manual ON/OFF	Bi-level Switch	Automatic Timer Switch	Included	Included	No	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.003 Schema Version: rev 20190401 — Report Generated: 2022-03-29 11:50:11

The Holt Group, Inc.
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1601 N. Imperial Ave, El Centro CA 92243, (760) 337-3883
36951 Cook Street, Palm Desert CA 92211, (760) 427-8533

NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		02/18/2022
3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY: GF
DRAWN BY: GF
CHECKED BY: IM

DC ENGINEERING
Careful listening. Dynamic solutions.
www.dcengineering.net
Phone: 208.288.2181

Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER — WILLIAM BURTON CRABB — E 22682 — ELECTRICAL — STATE OF CALIFORNIA
07/25/2022

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
TITLE 24 ENERGY COMPLIANCE FORMS

SHEET E0.01
OF ___ SHEETS
JOB NO. 1509-00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Bedroom 1	All Others Buildings	Manual ON/OFF	Exempt*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Bedroom 2	All Others Buildings	Manual ON/OFF	Exempt*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Bedroom 3	All Others Buildings	Manual ON/OFF	Exempt*	Automatic Timer Switch	N/A	N/A	No	☐	☐
Living Room	All Others Buildings	Manual ON/OFF	Dimmer	Automatic Timer Switch	N/A	N/A	No	☐	☐
Kitchen	All Others Buildings	Manual ON/OFF	Dimmer	Automatic Timer Switch	N/A	N/A	No	☐	☐

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

	13
	Plan Sheet Showing Daylit Zones:
Server Room	
Office	
Chief's Office	
Washroom 110	
Uni-Sex R/R 113	
Uni-Sex R/R 114	E1.11
Janitor	
Locker Room	
Bedroom 1	
Bedroom 2	
Bedroom 3	

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Whole Building	Assembly Building	0.7	4,180	2,926	No	No
		TOTALS:	4,180	2,926	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	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.	☐	☐
○	●	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.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
●	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: DC Engineering	Signature Date: 2022-03-29
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Bill Crabb, PE	Responsible Designer Signature:
Company: DC Engineering	Date Signed: 2022-03-29
Address: 440 E. Corporate Dr.	License: E 22682
City/State/Zip: Meridian ID 83642	Phone: 208.493.0004

A. GENERAL INFORMATION

01	Project Location (city)	Seeley	04	Total Illuminated Hardscape Area (ft²)	29368
02	Climate Zone	16			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐	LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Developed Parkland	☒	LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02			
☒ New Lighting System	Must Comply with Allowances from §140.7			
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○	Yes	○ No
03	04	05		
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method		
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%				

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L										Compliance Results			
01		02		03		04		05	OR	06	=	07	
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)		Existing Power Allowance §141.0(b)2L (See Table N)		**Total Allowed** (Watts)	≥
1,103.2	+	19	+	---	+	---	+	65.34	OR	---	=	1,187.54	≥

Total Allowed (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,187.54	≥	1,070	COMPLIES
Cutoff Compliance (See Table G for Details)			N/A
Controls Compliance (See Table H for Details)			COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2I, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10		
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector Pass	Field Inspector Fail
A	POLE LIGHT	☐ Linear	72	CEC Default	3	New	☐	216	NA: < 6200 lumens	☐	☐
B	POLE LIGHT	☐ Linear	72	CEC Default	1	New	☐	72	NA: < 6200 lumens	☐	☐
C	POLE LIGHT	☐ Linear	72	CEC Default	1	New	☐	72	NA: < 6200 lumens	☐	☐
D	POLE LIGHT	☐ Linear	72	CEC Default	2	New	☐	144	NA: < 6200 lumens	☐	☐
ED	EXTERIOR EGRESS LED WALLPACK	☐ Linear	17	CEC Default	6	New	☐	102	NA: < 6200 lumens	☐	☐
R2	6" LED RECESSED DOWNLIGHT	☐ Linear	28	CEC Default	4	New	☐	112	NA: < 6200 lumens	☐	☐
W	EXTERIOR LED LIGHT	☐ Linear	88	CEC Default	4	New	☐	352	NA: < 6200 lumens	☐	☐
							Total Design Watts:	1070			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2I, only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10

[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)
This section does not apply to this project.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector Pass	Field Inspector Fail
Entries/Exits	Photocontrol	Yes	Exempt*	☐	☐
Exterior Wall	Photocontrol	Yes	Yes	☐	☐
Parking Lot	Photocontrol	Yes	Exempt*	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

Entries/Exits	
Parking Lot	

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36951 Cook Street Palm Desert CA 92211 (760) 427-8533

NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		02/18/2022
3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY: GF
DRAWN BY: GF
CHECKED BY: IM

DC ENGINEERING
Careful listening. Dynamic solutions.
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Phone: 208.288.2181 Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER
WILLIAM BURTON CRABB
E 22682
ELECTRICAL
STATE OF CALIFORNIA
07/25/2022

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
TITLE 24 ENERGY COMPLIANCE FORMS

SHEET E0.02
OF ___ SHEETS
JOB NO. 1509-00

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 5 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B . Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

	01			
	☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)		
		☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)				
This section does not apply to this project.				
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)				

02	03	04	05	06	07	08	09	10
		Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Exterior Wall	Asphalt	1368	0.03	34.2	76	0.4	19	53.2
Parking Lot	Asphalt	28000	0.03	700	0	0.4	0	700
							Initial Wattage Allowance for Entire Site (Watts):	350
							Total General Hardscape Allowance (Watts):	1103.2

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 6 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B .

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entries/Exits	Building Entrance/Exit	1	19	19	ED	17	6	102	19
							Total Design Watts for this Area:	102	
							Total Allowance (Watts) All Areas:		19

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 10DW for the first ATM and 35W for each additional per Table 140.7-B .*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 7 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B . More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Exterior Canopy	NonSalesCanopy	242	0.27	65.34	R2	28	4	112	65.34
							Total Design Watts for this Area:	112	
							Total Allowance (Watts) All Areas:		65.34

[1] *FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft²) for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 8 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Seeley Fire Station & Cooling Center	Report Page:	Page 1 of 5
Project Address:	EVAN HEWES HIGHWAY SEELEY, CALIFORNIA	Date Prepared:	07/14/2022

A. GENERAL INFORMATION

01	Project Location (city)	Seeley	04	Building Type	Other nonresidential bldg 3 stories or fewer
02	Climate Zone	15	05	Construction Type	New Construction
03	☐ Roof is designed for vehicle traffic, parking or for heliport				

B. PROJECT SCOPE

Table Instructions: Select the compliance path the project is using to comply per §110.10(b)1B.

My project consists of (check one):	01
☑ Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☐ Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area, as documented in Table G.
☐ Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with §150.1(c)8iii and Reference Residential Appendix RA4, as documented in Table H.
☐ Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a high-rise multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below

Allocated Solar Zone			Installed PV System			Installed SWH System			Smart Tstat and Alternative EE Measure		Compliance Results
01	02		03	04		05	06		07	08	09
Required Minimum Area (ft²)	≤	Designated Area (ft²)	OR Required Minimum DC Power Rating (Watts)	≤	Designed DC Power Rating (Watts)	OR Required Minimum Solar Savings Fraction	≤	Designed/ Rated Solar Savings Fraction	OR JAS Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)			(See Table G)			(See Table H)				(See Table I)	
930.45	≤	931	OR	≤		OR	≤		OR		**COMPLIES**
E1.00 & E2.11	Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).										**COMPLIES**

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Seeley Fire Station & Cooling Center	**Report Page:**	**(Page 9 of 9)**
Project Address:	Mount Signal Ave & W Evan Hewes Hwy	**Date Prepared:**	3/29/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: DC Engineering	Signature Date: 2022-03-29
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Bill Crabb, PE	Responsible Designer Signature:
Company: DC Engineering	Date Signed: 2022-03-29
Address: 440 E. Corporate Dr.	License: E 22682
City/State/Zip: Meridian ID 83642	Phone: 208.493.0004

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Seeley Fire Station & Cooling Center	Report Page:	Page 2 of 5
Project Address:	EVAN HEWES HIGHWAY SEELEY, CALIFORNIA	Date Prepared:	07/14/2022

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ALLOCATED SOLAR ZONE

Table Instructions: Complete this table if the project is designating a solar zone to comply with §110.10(b)1B. For new construction consider total roof area; for additions consider newly added roof area.

Required Minimum Solar Zone

01	02	03	04	05	06			07	08
					Potential Solar Zone Areas: Roof Areas with ≥ 70% Solar Access				
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylt)) (ft²)	Method/Tool(s) Used to Determine Annual Solar Access for Potential Zones[1]	Low-Sloped Area (≤ 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch), Oriented 90° - 300° (ft²)	Total Potential Solar Zone Area (ft²)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
Total New or Added Roof Area	6,203	0	930.45						930.45

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low ≤ 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?

Table Continued

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Seeley Fire Station & Cooling Center	Report Page:	Page 3 of 5
Project Address:	EVAN HEWES HIGHWAY SEELEY, CALIFORNIA	Date Prepared:	07/14/2022

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low ≤ 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Solar Area	A1.00	Low-Sloped		Yes	Yes	Yes	Yes	80	931	COMPLIES
							Total Designated Solar Zone Area (ft²):		**931**	

Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).	E1.00 & E2.11

[1] *FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.*

G. PERMANENTLY INSTALLED SOLAR PHOTOVOLTAIC (PV) SYSTEM

This Section Does Not Apply

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEM

This Section Does Not Apply

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE

This Section Does Not Apply

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Seeley Fire Station & Cooling Center	Report Page:	Page 4 of 5
Project Address:	EVAN HEWES HIGHWAY SEELEY, CALIFORNIA	Date Prepared:	07/14/2022

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
○	●	NRCI-SPV-01-E - Must be submitted for all newly installed Photovoltaic Systems (PV) being used to comply with §110.10(b)1B for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐
○	●	NRCI-STH-01-E - Must be submitted for all newly installed Solar Water Heating systems being used to comply with §110.10(b)1B for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to solar ready requirements.

STATE OF CALIFORNIA
Solar Ready Areas
NRCC-SRA-E (Created 11/19)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Seeley Fire Station & Cooling Center	Report Page:	Page 5 of 5
Project Address:	EVAN HEWES HIGHWAY SEELEY, CALIFORNIA	Date Prepared:	07/14/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	Ghulam Fikrat	Documentation Author Signature:	
Company:	DC Engineering	Signature Date:	07/14/2022
Address:	440 E Corporate DR Suite 103	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Meridian, ID 83686	Phone:	208-288-2181

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	Bill Crabb	Responsible Designer Signature:	
Company :	DC Engineering	Date Signed:	07/14/2022
Address:	440 E Corporate DR Suite 103	License:	E 22682
City/State/Zip:	Meridian, ID 83686	Phone:	208-288-2181

5

The Holt Group, Inc.
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201 E. Hobsonway
Blythe CA 92225
(760) 922-4658

1601 N. Imperial Ave.
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36951 Cook Street
Palm Desert CA 92211
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NO.	REVISIONS:	APPROVED	DATE
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5	PERMIT REV 1		07/08/2022

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REGISTERED PROFESSIONAL ENGINEER
WILLIAM BURTON CRABB
E 22682
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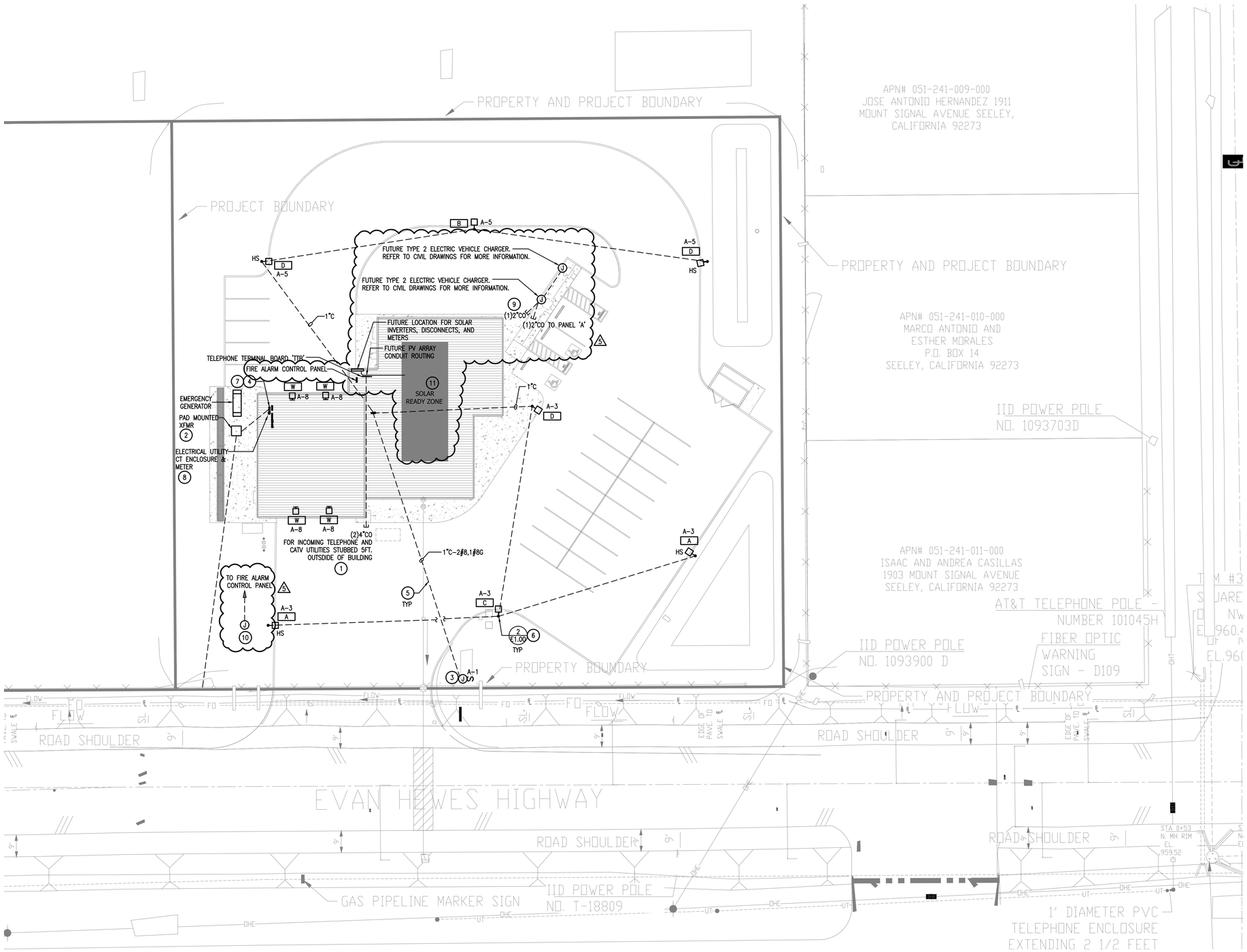
STATE OF CALIFORNIA
07/25/2022

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
TITLE 24 ENERGY COMPLIANCE FORMS

SHEET E0.03
OF ___ SHEETS
JOB NO. 1509-00



NORTH

1 ELECTRICAL SITE PLAN
SCALE: 1/20" = 1'-0"

GENERAL NOTES:

A. NUMBER ADJACENT TO HOME RUN INDICATES POLE POSITION WITHIN PANEL TO WHICH DEVICES SHALL BE CIRCUITED.

B. REFER TO LUMINAIRE SCHEDULE ON SHEET E3.00.

C. LINEWORK SHOWN FOR CLARITY OF SWITCHING ONLY. PROVIDE QUANTITY OF CONDUCTORS AS REQUIRED FOR CONTROL.

D. CONTRACTOR SHALL PROVIDE #10 AWG CONDUCTORS FOR ALL CIRCUITS OF 100' OR MORE UNLESS SHOWN LARGER.

E. CONTRACTOR SHALL CONTACT UNDERGROUND UTILITY LOCATING SERVICE PRIOR TO EXCAVATION FOR ELECTRICAL WORK.

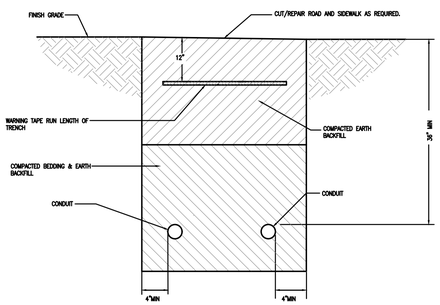
F. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL OTHER SITE DISCIPLINES INCLUDING BUT NOT LIMITED TO TRADES ASSOCIATED WITH WATER, SEWER, AND GAS INSTALLATIONS.

G. ROUTE ALL EXTERIOR LIGHTING (INCLUDING SOFFIT AND AREA LIGHTING SHOWN) THROUGH A LIGHTING CONTACTOR. LOCATE LIGHTING CONTACTOR NEAR ELECTRICAL PANELS. PROVIDE PHOTO-CELL ON ROOF AND ELECTRO-MECHANICAL 7-DAY PROGRAMMABLE TIME CLOCK ADJACENT WITH CONTACTORS. REFER TO DETAIL 4, SHEET E4.00.

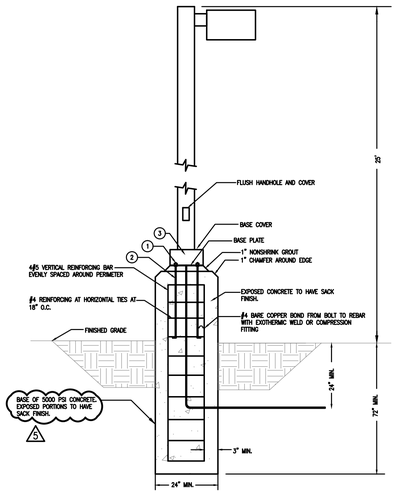
H. ELECTRICAL CONTRACTOR SHALL COORDINATE UTILITY WORK REQUIRED BY LOCAL ELECTRIC UTILITY AND SHALL FORWARD UTILITY WORK ORDER INVOICE TO OWNER FOR PAYMENT BY OWNER.

KEYED NOTES:

1. PROVIDE CONDUIT AS INDICATED WITH PULL CORD FOR TELEPHONE AND CATV SERVICE CABLE. VERIFY EXACT LOCATION OF CONDUIT WITH TELEPHONE AND CABLE UTILITY COMPANIES.
2. NEW UTILITY TRANSFORMER. COORDINATE LOCATION AND REQUIREMENTS WITH ELECTRIC UTILITY.
3. CONNECT MONUMENT SIGN. COORDINATE EXACT STUB UP LOCATION WITH CIVIL AND SIGN MANUFACTURERS. PROVIDE LOCAL DISCONNECTING MEANS.
4. REFER TO DETAIL 1, SHEET E4.00, ONE-LINE DIAGRAM FOR CONDUIT AND WIRE REQUIREMENTS.
5. REFER TO DETAIL 3, SHEET E1.00 FOR TYPICAL TRENCHING DETAIL.
6. REFER TO DETAIL 2, SHEET E1.00 FOR POLE BASE DETAIL. TYPICAL ALL LIGHT POLE BASES.
7. COORDINATE METER, METER BASE, AND CT CABINET REQUIREMENTS AND RESPONSIBILITIES WITH LOCAL ELECTRIC COMPANY.
8. 4"C TO ELECTRIC UTILITY POLE DROP. COORDINATE UTILITY SERVICE REQUIREMENTS AND SECONDARY SERVICE DROP WITH LOCAL ELECTRIC UTILITY.
9. PROVIDE CONDUIT WITH PULL TAPE FOR LOW VOLTAGE TO FUTURE EVCS. STUB CONDUIT IN ACCESSIBLE SPACE ABOVE CEILING INSIDE BUILDING.
10. POST INDICATOR VALVE TAMPER SWITCH. PROVIDE 3/4"C CONDUIT FOR LOW VOLTAGE WIRING. FIRE ALARM PANEL, CONDUCTORS AND CONNECTIONS BY OTHER. SEE C1.06 AND C1.11 FOR EXACT TAMPER SWITCH LOCATION AND MORE INFORMATION.
11. SEE ARCHITECTURAL DRAWINGS FOR MORE DETAILS ON SOLAR READY ZONE.



3 TRENCH DETAIL
SCALE: N.T.S.



POLE BASE DETAIL KEY NOTES:

1. PROVIDE GALVANIZED LOCKNUTS AND LOCKWASHERS.
2. PROVIDE ANCHOR BOLTS TO MATCH PATTERN AS PROVIDED BY MANUFACTURER.
3. STUB 3/4"C-6" ABOVE POLE BASE.

2 POLE BASE DETAIL
SCALE: N.T.S.

The Holt Group, Inc.
ENGINEERING · PLANNING · SURVEYING

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Blythe CA 92225
(760) 922-4658

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El Centro CA 92243
(760) 337-3883

36951 Cook Street
Palm Desert CA 92211
(760) 427-8533

NO.	REVISIONS:	APPROVED	DATE
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3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY: GF
DRAWN BY: GF
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Phone: 208.288.2181

Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER
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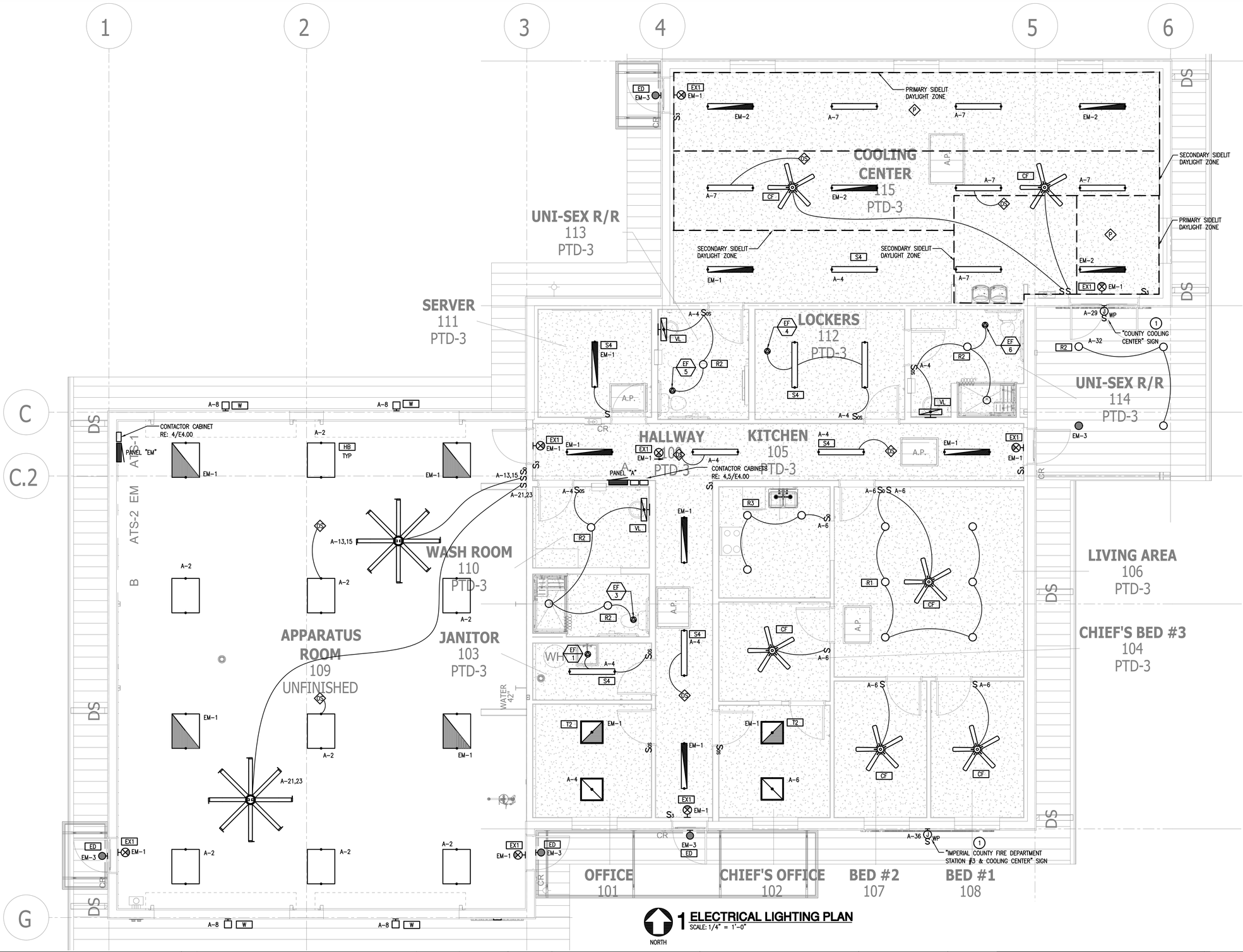
ELECTRICAL
STATE OF CALIFORNIA
07/25/2022

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ELECTRICAL SITE PLAN

SHEET
E1.00
OF ___ SHEETS
JOB NO.
1509-00



1 ELECTRICAL LIGHTING PLAN

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

GENERAL NOTES:

A. NUMBER ADJACENT TO HOME RUN OR DEVICES INDICATES POLE POSITION WITHIN PANEL TO WHICH DEVICES SHALL BE CIRCUITED.

B. CONTRACTOR SHALL COORDINATE ELECTRICAL SYSTEMS INSTALLATION TO AVOID INTERFERENCE WITH DUCTWORK/PIPING AND OTHER TRADES. CONTRACTOR SHALL COORDINATE PLACEMENT OF FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN. LOCATION OF FIXTURES SHALL GOVERN WHEN CONFLICTS WITH SUPPLY/EXHAUST DIFFUSERS OCCUR.

C. REFER TO SHEET E3.00 FOR LUMINAIRE SCHEDULE.

D. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR CEILING TYPES.

E. ALL FIXTURES WITHIN A GIVEN ROOM/AREA ARE THE SAME TYPE AS THE SINGLE FIXTURE CALLED OUT WITHIN THAT ROOM/AREA, UNLESS OTHERWISE NOTED.

F. LINEWORK SHOWN FOR CLARITY OF SWITCHING ONLY. PROVIDE QUANTITY OF CONDUCTORS AS REQUIRED FOR CONTROL.

G. CONTRACTOR SHALL PROVIDE #10 AWG CONDUCTORS FOR ALL CIRCUITS OF 100' OR MORE UNLESS SHOWN LARGER.

H. ALL LIGHT FIXTURES AND FIXTURE CONTROLS ARE TO COMPY WITH THE REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

I. FUNCTIONAL TESTING OF LIGHTING CONTROLS SHALL BE PERFORMED AND DOCUMENTED PER THE REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

J. REFER TO SHEET A4.00 FOR FIXTURE LOCATIONS.

K. GENERAL INTERIOR LIGHTING IS TO BE CONTROLLED VIA AN PROGRAMMABLE ASTRONOMICAL TIME-CLOCK AND CONTACTORS. EXTERIOR LIGHTING IS TO BE CONTROLLED WITH A PROGRAMMABLE ASTRONIMICAL TIME CLOCK, OUTDOOR PHOTOSENSOR, AND MOTION SENSORS (LIGHTS BELOW 15 FEET A.F.F.). PROVIDE 2HR OVERRIDE SWITCHES AT CONTACTORS. RE: E4.00-4 & 5.

L. EMERGENCY LIGHTS ARE TO REMAIN UNSWITCHED (MANUAL). THE EMERGENCY LIGHTING CONTACTOR IS TO BE UL924 TO TURN LIGHTS ON WHEN POWER FAILURE IS SENSED OVERRIDING ANY CURRENT CONTROL STATE.

KEYED NOTES:

1. CONNECT EXTERIOR SIGN. RE: ARCHITECTURAL ELEVATIONS FOR EXACT HEIGHTS AND LOCATIONS.

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		02/18/2022
3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY: GF
DRAWN BY: GF
CHECKED BY: IM

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Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER
WILLIAM BURTON CRABB
E 22680
ELECTRICAL
STATE OF CALIFORNIA
07/25/2022

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ELECTRICAL LIGHTING PLAN

SHEET
E1.11
OF ___ SHEETS

JOB NO.
1509-00

GENERAL NOTES:

A. NUMBER ADJACENT TO DEVICE OR HOME RUN INDICATES POLE POSITION WITHIN PANEL TO WHICH DEVICES SHALL BE CIRCUITED.

B. CONTRACTOR IS RESPONSIBLE FOR CIRCUITING AND ROUTING OF CONDUCTORS AND CONDUIT. CONFIRM LOCATION OF ALL DEVICES WITH OWNER PRIOR TO BEGINNING WORK.

C. CONTRACTOR SHALL EXTEND (1)1" CONDUIT AS A SPARE FROM EACH PANEL TO ABOVE THE CEILING, AND (1)3/4" CONDUIT FOR EVERY (3) SPARE BREAKER SPACES.

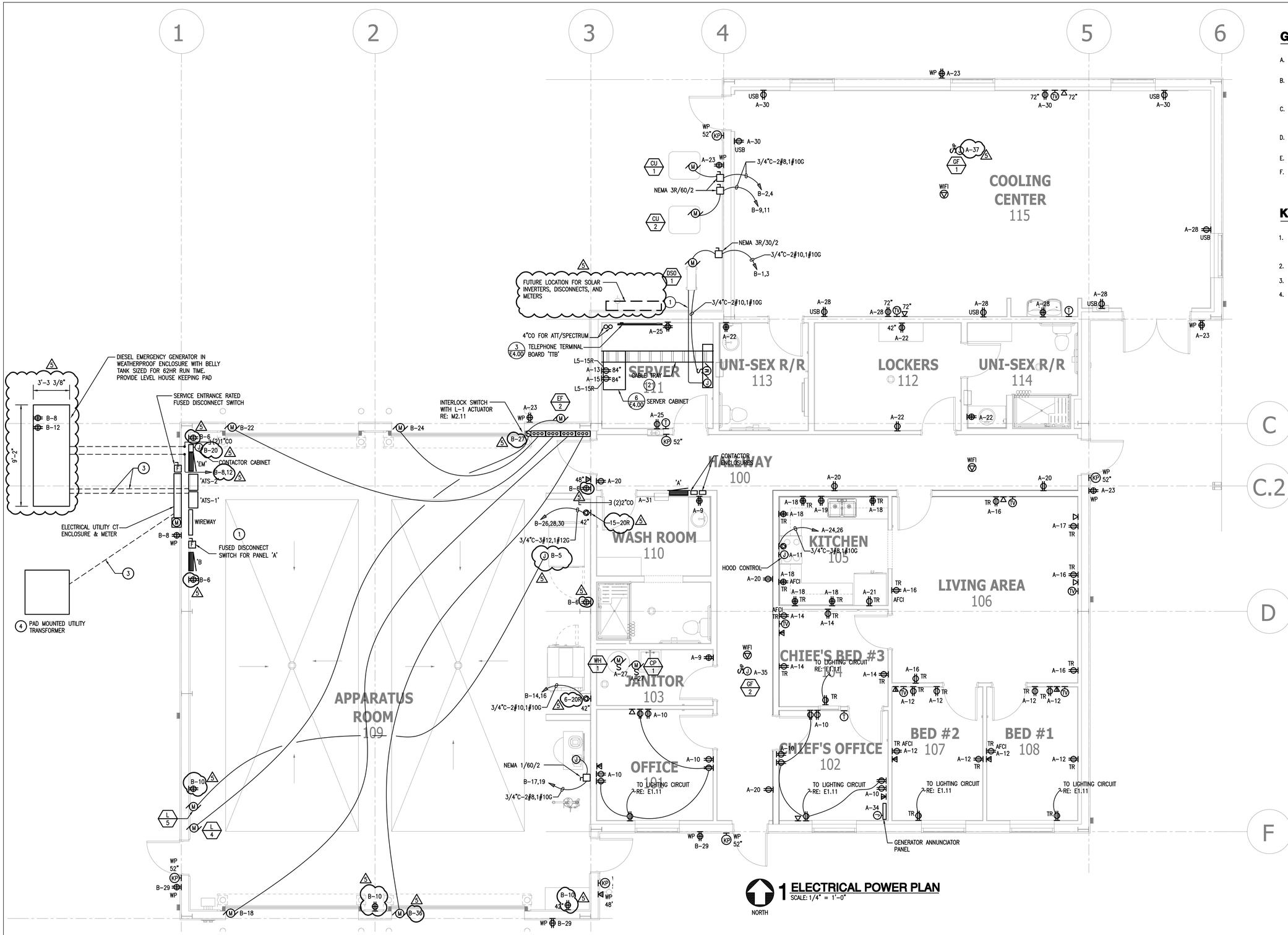
D. GFCI PROTECTION OF RECEPTACLES LOCATED WITHIN SIX FEET OF A SINK AS PER CEC 210.14.

E. INSTALL AFCI RECEPTACLES AS PER CEC 210.12.

F. COORDINATE ELECTRICAL LOCATIONS WITH ARCHITECTURAL SHEET A3.10.

KEYED NOTES:

1. PROVIDE 3/4"C UNLESS OTHERWISE NOTED WITH PULL-TAPE TO ACCESSIBLE SPACE ABOVE CEILING OR BOTTOM OF ROOF STRUCTURE FOR EMS/DATA WIRING.
2. REFER TO LOW VOLTAGE DRAWINGS FOR FURTHER INFORMATION.
3. REFER TO ONE-LINE DIAGRAM, 1/E4.00.
4. MAINTAIN UTILITY REQUIRED CLEARANCES FROM BUILDING AND OTHER OBSTRUCTIONS. COORDINATE EXACT LOCATION, PAD, METER, CT ENCLOSURE, SERVICE ENTRANCE, AND SECONDARY REQUIREMENTS WITH LOCAL UTILITY.



1 ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		02/18/2022
3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY: GF
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REGISTERED PROFESSIONAL ENGINEER
WILLIAM BURTON CRABB
E 22685
ELECTRICAL
STATE OF CALIFORNIA
07/25/2022

PROJECT TITLE: SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT: ELECTRICAL POWER PLAN

SHEET E2.11 OF ___ SHEETS

JOB NO. 1509-00

PANELBOARD SCHEDULE

PANEL: A
VOLTAGE: 208/120V | PHASE: 3 | WIRE: 4 | AMPERE RATING: 225A | SC RATING: 10,000 | MAIN: MAIN LUG ONLY
ENTRY: | MOUNTING: RECESSED

LOADS:	Amps	VA	LOAD TYPES:	REMARKS:
PHASE A:	120	14356	1 = LIGHTING	
PHASE B:	126	15155	2 = RECEPTACLES	
PHASE C:	133	15965	3 = MISC	
TOTAL:		45476	4 = MOTOR	
			5 = KITCHEN	

LOAD (VA)	LOAD SERVED	NOTE	LOAD TYPE	AMPS/	POLES	CKT NO	PHASE	CKT NO	AMPS/	POLES	LOAD TYPE	NOTE	LOAD SERVED	LOAD (VA)
300	LTG - SIGN		1	20	1	1	A	2	20	1	1		LTG - APPARATUS ROOM	800
490	LTG - SITE LIGHTING		1	20	1	3	B	4	20	1	1		LTG - GENERAL LIGHTING	1225
210	LTG - SITE LIGHTING		1	20	1	5	C	6	20	1	1		LTG - APARTMENTS/KITCHEN	447
120	LTG - COOLING CENTER		1	20	1	7	A	8	20	1	1		LTG - GARAGE DOOR	420
360	REC - JANIOR/WASHROOM		2	20	1	9	B	10	20	1	2		REC - OFFICE	1080
300	HOOD CONTROL		2	20	1	11	C	12	20	1	2		REC - BEDROOM 1 & 2	1440
1000	REC - DATA RACK		2	15	1	13	A	14	20	1	1		REC - BEDROOM 3	720
1000	REC - DATA RACK		2	15	1	15	B	16	20	1	2		REC - LIVING ROOM	900
1000	REC - PA SYSTEM - LIVING ROOM		2	20	1	17	C	18	20	1	2		REC - KITCHEN	900
600	REC - KITCHEN DISHWASHER		2	20	1	19	A	20	20	1	2		REC - HALLWAY	900
300	REC - KITCHEN FRIG.		2	20	1	21	B	22	20	1	2		REC - WASHROOM	720
720	REC - EXTERIOR BACK		2	20	1	23	C	24	50	2	2	GFI	RANGE	3700
540	REC - SERVER ROOM		2	20	1	25	A	26	--	--	2	GFI	---	3700
600	WH-1/CP-1		3	20	1	27	B	28	20	1	2		REC - COOLING CENTER	1080
600	COOLING CENTER SIGN		1	20	1	29	C	30	20	1	2		REC - COOLING CENTER	900
	SPARE			20	1	31	A	32	20	1	1		LTG - CANOPY DOWNLIGHT	48
	SPARE			20	1	33	B	34	20	1	3		GENERATOR MONITORING	200
1548	GF-2		3	15	1	35	C	36	20	1	1		LTG - FRONT SIGN	600
1608	GF-1		3	15	1	37	A	38	40	2	3		EVCS (FUTURE)	3600
3600	EVCS (FUTURE)		3	40	2	39	B	40	--	--	3		---	3600
3600	---		3	--	--	41	C	42	20	1			SPARE	

5

LOADING BY TYPE			CONNECTED	NEC CODE	DEMAND FACTOR	DEMAND	NOTES:
LIGHTING			5980 VA	210-19	125%	7475 VA	GFI - 5mA GROUND FAULT PROTECTED BREAKER.
RECEPTACLES			21140 VA	220-44	10kVA @ 100%, ELSE @ 50%	15570 VA	
MISC.			18356 VA	220-60	100%	18356 VA	
MOTOR	LARGEST MOT.:		0 VA	220-50	100% + LARGEST x 25%	0 VA	
KITCHEN	# OF KIT. UNITS:	0	0 VA	220-56		0 VA	
TOTAL			126 A			115 A	

PANELBOARD SCHEDULE

PANEL: B
VOLTAGE: 208/120V | PHASE: 3 | WIRE: 4 | AMPERE RATING: 225A | SC RATING: 14,000 | MAIN: 225A MAIN BREAKER
ENTRY: | MOUNTING: SURFACE

LOADS:	Amps	VA	LOAD TYPES:	REMARKS:
PHASE A:	110	13214	1 = LIGHTING	
PHASE B:	111	13373	2 = RECEPTACLES	
PHASE C:	107	12806	3 = MISC	
TOTAL:		39393	4 = MOTOR	
			5 = KITCHEN	

LOAD (VA)	LOAD SERVED	NOTE	LOAD TYPE	AMPS/	POLES	CKT NO	PHASE	CKT NO	AMPS/	POLES	LOAD TYPE	NOTE	LOAD SERVED	LOAD (VA)
2080	DSO/DSI-1		4	30	2	1	A	2	40	2	4		CU-1	2714
2080	---		4	--	--	3	B	4	--	--	4		---	2714
300	MOTORIZED DAMPER LV-5		4	20	1	5	C	6	20	1	2		REC - APPARATUS ROOM	720
	SPARE			20	1	7	A	8	20	1	2		REC - OUTSIDE - GENERATOR	1500
2454	CU-2		4	40	2	9	B	10	20	1	2		REC - APPARATUS ROOM	540
2454	---		4	--	--	11	C	12	20	1	2		REC - OUTSIDE - GENERATOR	1500
1040	APPARATUS CEILING FAN		4	20	2	13	A	14	30	2	3	GFI	WASHING MACHINE	2100
1040	---		4	--	--	15	B	16	--	--	3		---	2100
3120	AIR COMPRESSOR		4	40	2	17	C	18	20	1	4		DOOR ROLL UP	864
3120	---		4	--	--	19	A	20	20	1	4		CONTACTOR CABINET	300
1040	APPARATUS CEILING FAN		4	20	2	21	B	22	20	1	4		DOOR ROLL UP	864
1040	---		4	--	--	23	C	24	20	1	4		DOOR ROLL UP	864
	SPARE			20	1	25	A	26	20	3	3	GFI	DRYER	360
181	EF-2/L-4			20	1	27	B	28	--	--	3		---	360
720	REC - EXTERIOR FRONT		2	20	1	29	C	30	--	--	3		---	360
	SPARE			20	1	31	A	32	20	1			SPARE	
	SPARE			20	1	33	B	34	20	1			SPARE	
	SPARE			20	1	35	C	36	20	1	4		DOOR ROLL UP	864
	SPACE			--	--	37	A	38	--	--			SPACE	
	SPACE			--	--	39	B	40	--	--			SPACE	
	SPACE			--	--	41	C	42	--	--			SPACE	

LOADING BY TYPE			CONNECTED	NEC CODE	DEMAND FACTOR	DEMAND	NOTES:
LIGHTING			0 VA	210-19	125%	0 VA	GFI - 5mA GROUND FAULT PROTECTED BREAKER.
RECEPTACLES			4980 VA	220-44	10kVA @ 100%, ELSE @ 50%	4980 VA	
MISC.			5280 VA	220-60	100%	5280 VA	
MOTOR	LARGEST MOT.:	6240	28952 VA	220-50	100% + LARGEST x 25%	30512 VA	
KITCHEN	# OF KIT. UNITS:		0 VA	220-56		0 VA	
TOTAL			109 A			114 A	

PANELBOARD SCHEDULE

PANEL: EM
VOLTAGE: 208/120V | PHASE: 3 | WIRE: 4 | AMPERE RATING: 60A | SC RATING: 10,000 | MAIN: 60A MAIN BREAKER
ENTRY: | MOUNTING: SURFACE

LOADS:	Amps	VA	LOAD TYPES:	REMARKS:
PHASE A:	5	654	1 = LIGHTING	
PHASE B:	1	85	2 = RECEPTACLES	
PHASE C:	0	0	3 = MISC	
TOTAL:		739	4 = MOTOR	
			5 = KITCHEN	

LOAD (VA)	LOAD SERVED	NOTE	LOAD TYPE	AMPS/	POLES	CKT NO	PHASE	CKT NO	AMPS/	POLES	LOAD TYPE	NOTE	LOAD SERVED	LOAD (VA)
574	LTG - EMERGENCY		1	20	1	1	A	2	20	1	1		LTG - COOLING CENTER	80
85	LTG - EM OUTDOOR		1	20	1	3	B	4	20	1			SPARE	
	SPARE			20	1	5	C	6	20	1			SPARE	
				20	1	7	A	8	--	--				
				20	1	9	B	10	--	--				
				20	1	11	C	7	--	--				
				--	--	13	A	14	--	--				
				--	--	15	B	16	--	--				
				--	--	17	C	18	--	--				

LOADING BY TYPE			CONNECTED	NEC CODE	DEMAND FACTOR	DEMAND	NOTES:
LIGHTING			739 VA	210-19	125%	924 VA	
RECEPTACLES			0 VA	220-44	10kVA @ 100%, ELSE @ 50%	0 VA	
MISC.			0 VA	220-60	100%	0 VA	
MOTOR	LARGEST MOT.:	2080	0 VA	220-50	100% + LARGEST x 25%	0 VA	
KITCHEN	# OF KIT. UNITS:		0 VA	220-56		0 VA	
TOTAL			2 A			3 A	

Percent Voltage Drop at Panel 0.4

Panel	Circuit	Voltage	Phase	Connected Load	Wire Gauge	Wire Material	Wire Resistance	Distance (Feet)	Vdrop	% Vdrop	Total % Vdrop
A	1	120	1	2.5	12	CU	2.05	113	1.16	0.97	1.33
A	3	120	1	4.1	12	CU	2.05	60	1.00	0.84	1.20
A	5	120	1	1.8	12	CU	2.05	80	0.57	0.48	0.84
A	7	120	1	1.0	12	CU	2.05	44	0.18	0.15	0.51
A	9	120	1	3.0	12	CU	2.05	7	0.09	0.07	0.43
A	11	120	1	2.5	12	CU	2.05	25	0.26	0.21	0.58
A	13	120	1	8.3	12	CU	2.05	25	0.85	0.71	1.07
A	15	120	1	8.3	12	CU	2.05	25	0.85	0.71	1.07
A	17	120	1	8.3	12	CU	2.05	55	1.88	1.57	1.93
A	19	120	1	5.0	12	CU	2.05	22	0.45	0.38	0.74
A	21	120	1	2.5	12	CU	2.05	36	0.37	0.31	0.67
A	23	120	1	6.0	12	CU	2.05	30	0.74	0.62	0.98
A	25	120	1	4.5	12	CU	2.05	25	0.46	0.38	0.75
A	27	120	1	5.0	12	CU	2.05	30	0.62	0.51	0.87
A	29	120	1	5.0	12	CU	2.05	31	0.64	0.53	0.89
A	31	120	1	0.0	12	CU	2.05	5	0.00	0.00	0.36
A	33	120	1	0.0	12	CU	2.05	65	0.00	0.00	0.36
A	35	120	1	12.9	12	CU	2.05	31	1.64	1.37	1.73
A	37	208	1	34.6	8	CU	0.809	95	5.32	2.56	2.92
A	39										
A	41										
A	2	120	1	6.7	12	CU	2.05	37	1.01	0.84	1.20
A	4	120	1	10.2	12	CU	2.05	21	0.88	0.73	1.09
A	6	120	1	3.7	12	CU	2.05	23	0.35	0.29	0.65
A	8	120	1	3.5	12	CU	2.05	36	0.52	0.43	0.79
A	10	120	1	9.0	12	CU	2.05	56	2.07	1.72	2.08
A	12	120	1	12.0	12	CU	2.05	69	3.39	2.83	3.19
A	14	120	1	6.0	12	CU	2.05	45	1.11	0.92	1.28
A	16	120	1	7.5	12	CU	2.05	53	1.63	1.36	1.72
A	18	120	1	7.5	12	CU	2.05	32	0.98	0.82	1.18
A	20	120	1	7.5	12	CU	2.05	45	1.38	1.15	1.52
A	22	120	1	6.0	12	CU	2.05	40	0.98	0.82	1.18
A	24	208	1	35.6	8	CU	0.809	24	1.38	0.66	1.03
A	26										
A	28	120	1	9.0	12	CU	2.05	81	2.99	2.49	2.85
A	30	120	1	7.5	12	CU	2.05	89	2.74	2.28	2.64
A	32	120	1	0.4	12	CU	2.05	62	0.10	0.08	0.45
A	34	120	1	1.7	12	CU	2.05	63	0.43	0.36	0.72
A	36	120	1	5.0	12	CU	2.05	73	1.50	1.25	1.61
A	38	208	1	34.6	8	CU	0.809	90	5.04	2.42	2.79
A	40										
A	42										

Percent Voltage Drop at Panel 0.1

Panel	Circuit	Voltage	Phase	Connected Load	Wire Gauge	Wire Material	Wire Resistance	Distance (Feet)	Vdrop	% Vdrop	Total % Vdrop
B	1	208	1	20.0	10	CU	1.29	80	4.13	1.98	2.04
B	3										
B	5	120	1	2.5	10	CU	1.29	102	0.66	0.55	0.61
B	7										
B	9	208	1	23.6	8	CU	0.809	85	3.25	1.56	1.62
B	11										
B	13	208	1	10.0	12	CU	2.05	90	3.69	1.77	1.83
B	15										
B	17	208	1	30.0	8	CU	0.809	56	2.72	1.31	1.36
B	19										
B	21	208	1	10.0	12	CU	2.05	50	2.05	0.99	1.04
B	23										
B	25										
B	27	120	1	1.5	13	CU	2.05	96	0.59	0.49	0.55
B	29	120	1	6.0	12	CU	2.05	74	1.82	1.52	1.57
B	31	120	1	0.0	12	CU	2.05	85	0.00	0.00	0.06
B	33										
B	35										
B	37										
B	39										
B	41										
B	2	208	1	26.1	8	CU	0.809	90	3.80	1.83	1.88
B	4										
B	6	120	1	6.0	12	CU	2.05	73	1.80	1.50	1.55
B	8	120	1	12.5	12	CU	2.05	15	0.77	0.64	0.70
B	10	120	1	4.5	13	CU	2.05	74	1.37	1.14	1.19
B	12	120	1	12.5	13	CU	2.05	15	0.77	0.64	0.70
B	14	208	1	20.2	8	CU	0.809	65	2.12	1.02	1.08
B	16										
B	18	120	1	7.2	12	CU	2.05	52	1.54	1.28	1.34
B	20	120	1	2.5	12	CU	2.05	12	0.12	0.10	0.16
B	22	120	1	7.2	12	CU	2.05	52	1.54	1.28	1.34
B	24	120	1	7.2	12	CU	2.05	52	1.54	1.28	1.34
B	26	208	3	3.0	12	CU	2.05	63	0.67	0.32	0.38
B	28										
B	30										
B	32										
B	34										
B	36	120	1	7.2	12	CU	2.05	60	1.77	1.48	1.53
B	38										
B	40										
B	42										

Panel	Voltage		Connected Load	Wire Gauge	Wire Material	Wire Resistance	Distance (Feet)	Vdrop	% Vdrop	Total %Vdrop
A	208	3	126	4/0	CU	0.0626	55	0.75	0.36	
B	208	3	109	4/0	CU	0.0626	10	0.12	0.06	
EM	208	3	2	6	CU	0.51	15	0.03	0.01	

LUMINAIRE SCHEDULE - SEELEY FIRE STATION & COOLING CENTER

7/26/2022

ID	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS
A	LITHONIA	RSX2 LED P1 40K R4 MVOLT SPA DDBXD; POLE: SSS 25 4C DM19 DDBXD	LED	71	120	POLE	OUTDOOR LED AREA LIGHT ON 25FT POLE; PROVIDE WITH HOUSE SIDE SHIELD WHERE INDICATED ON PLANS
B	LITHONIA	RSX1 LED P2 40K R2 MVOLT SPA DDBXD; POLE: SSS 25 4C DM19 DDBXD	LED	72	120	POLE	OUTDOOR LED AREA LIGHT ON 25FT POLE
C	LITHONIA	RSX2 LED P3 40K R5 MVOLT SPA DDBXD; POLE: SSS 25 4C DM19 DDBXD	LED	147	120	POLE	OUTDOOR LED AREA LIGHT ON 25FT POLE
D	LITHONIA	RSX1 LED P2 40K R3 MVOLT SPA DDBXD; POLE: SSS 25 4C DM19 DDBXD	LED	72	120	POLE	OUTDOOR LED AREA LIGHT ON 25FT POLE; PROVIDE WITH HOUSE SIDE SHIELD WHERE INDICATED ON PLANS
CF	KICHLER	330163SBK	LED	58	120	CEILING	CEILING FAN WITH LED LIGHTS
ED	LITHONIA	ARC1 LED P2 40K MVOLT PE DDBXD	LED	17	120	WALL ABOVE DOOR	EXTERIOR EGRESS LED WALLPACK
EX1	LITHONIA	LQM S W R 120/277	LED	0.6	120	WALL/CEILING	LED EXIT SIGN WITH ILLUMINATED RED LETTERS
HB	LITHONIA	CPHB 18000LM HEF GCL MD MVOLT 40K 80CRI	LED	134	120	SUSPENDED	LED HIGH BAY - MOUNT AT 16' A.F.F.
R1	JUNO/ACUITY	IC22LED G4 35K 90CRI MVOLT ZT1 24 WWH	LED	16	120	RECESSED	6" IC RATED LED RECESSED DOWNLIGHT
R2	COOPER	HC6 25 HM6 835 90CRI WD HB128APK	LED	27	120	RECESSED	6" WET RATED LED RECESSED DOWNLIGHT
R3	COOPER	HC6 30 HM6 835 90CRI WD HB128APK	LED	28	120	RECESSED	6" WET RATED LED RECESSED DOWNLIGHT
S4	LITHONIA	CLX L48 3000LM HEF FDL MVOLT EZ1 35K 80CRI EPNKO WH THCLX	LED	20	120	SURFACE	4' LINEAR LED STRIP
T2	LITHONIA	CPANL 2X2 80CRI 40K MVOLT 2X2SMKSH	LED	39	120	SURFACE	SURFACE MOUNT 2'X2' LED PANEL FIXTURE
W	LITHONIA	WDGE3 LED P4 40K 80CRI R4 MVOLT SRM PIR DDBXD	LED	88	120	WALL	WALL MOUNTED LED OUTDOOR AREA LIGHT - MOUNT ABOVE GARAGE DOOR
VL	LITHONIA	FMVCSLS 24IN MVOLT 35K 90CRI BN M6	LED	27	120	WALL ABOVE MIRROR	LED MIRROR LIGHT

General Notes:
G1. Design is based on first named manufacturer. Alternate manufacturers are acceptable, subject to compliance with the specified requirements, form, and function of the luminaire.
It is the contractors responsibility to provide a complete and operable system. Prior approvals will not be provided by Engineer.
G2. Confirm all finishes with owner's representative.
G3. Contractor shall provide and coordinate all fixture mounting accessories.
G4. Light fixtures shall "high efficiency" as defined by the California Building Energy Efficiency Standards and compliant with all other requirements of this code.
G5. All fixtures with sockets shall be provided with JA8 compliant light sources.
G6. Recessed downlights shall be IC rated and labeled as JA8 compliant. Recessed downlights shall not have screw socket lamp bases.

Percent Voltage Drop at Panel 0.0

Panel	Circuit	Voltage	Phase	Connected Load	Wire Gauge	Wire Material	Wire Resistance	Distance (Feet)	Vdrop	% Vdrop	Total % Vdrop
EM	1	120	1	4.8	10	CU	1.29	10	0.12	0.10	0.16
EM	3	120	1	0.7	11	CU	1.29	45	0.08	0.07	0.13
EM	5										
EM	7										
EM	9										
EM	11										
EM	13										
EM	15										
EM	17										
EM	2	120	1	0.7	8	CU	0.809	100	0.11	0.09	0.15
EM	4										
EM	6										
EM	8										
EM	10										
EM	12										
EM	14										
EM	16										
EM	18										

5

BUILDING LOAD SUMMARY

PANEL A	45	kVA	
PANEL B	39	kVA	
PANEL EM	1	kVA	
TOTAL (NEW LOADS)	86	kVA	
TOTAL BUILDING LOAD:	86	kVA	
LARGEST MOTOR @ 125% (NEC 220.50 - 60kVA)	2	kVA	
KITCHEN EQUIPMENT @ 65% (NEC 220.56 - 100kVA)	0	kVA	
RECEPTACLE LOADS (NEC 220.44)	-3		
TOTAL BUILDING DEMAND LOAD:	85	kVA	
	235	AMPS	208Y/120V

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DESIGN BY: GF
DRAWN BY: GF
CHECKED BY: IM

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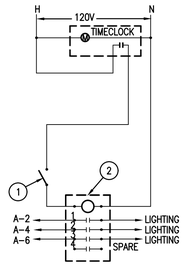
Phone: 208.288.2181 Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER
WILLIAM BURTON CRABB
E 22682
ELECTRICAL
STATE OF CALIFORNIA
[illegible]
07/25/2022

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
PANEL SCHEDULES

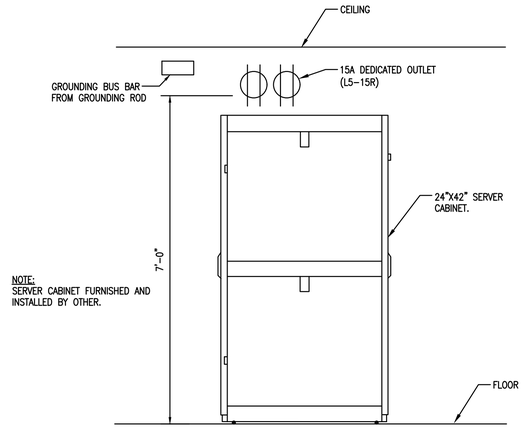
SHEET
E3.00
OF ___ SHEETS
JOB NO.
1509-00



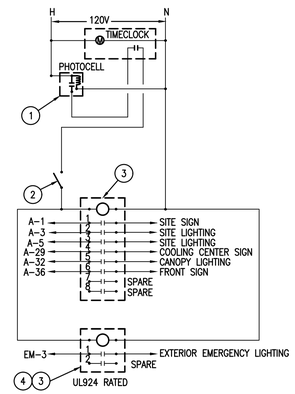
DETAIL KEYNOTES: (#)

1. PROVIDE 2HR TIMER SWITCH FOR LIGHTING CONTROL OVERRIDE NEAR CONTACTOR. LABEL "LIGHTING CONTROL OVERRIDE".
2. MOUNT LIGHTING CONTACTOR IN RECESSED NEMA 1 ENCLOSURE ADJACENT TO ELECTRICAL PANEL.

5 INTERIOR LIGHTING CONTACTOR
SCALE: N.T.S.



6 SERVER CABINET DETAIL
SCALE: N.T.S.



DETAIL KEYNOTES: (#)

1. MOUNT PHOTOCELL 12" ABOVE ROOF FACING NORTH.
2. PROVIDE 2HR TIMER SWITCH FOR LIGHTING CONTROL OVERRIDE NEAR CONTACTOR. LABEL "SITE LIGHTING & SIGN CONTROL OVERRIDE".
3. MOUNT LIGHTING CONTACTOR IN RECESSED NEMA 1 ENCLOSURE ADJACENT TO ELECTRICAL PANELS.
4. PROVIDE SEPARATE ENCLOSURE FOR EMERGENCY LIGHTING CONTACTOR.

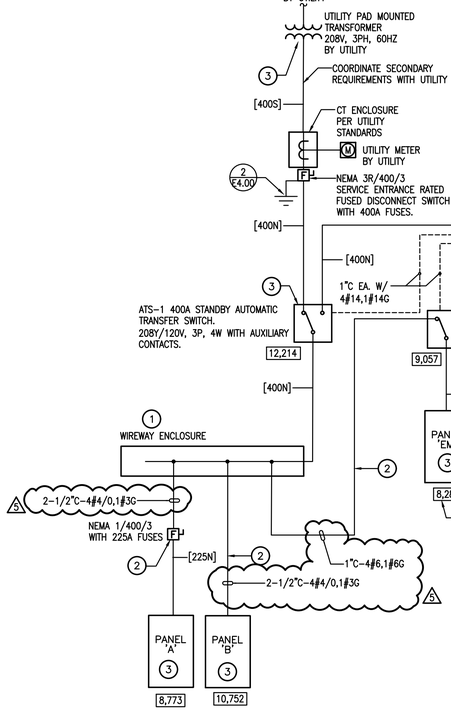
4 EXTERIOR LIGHTING CONTACTOR
SCALE: N.T.S.

CONDUIT/CONDUCTOR SCHEDULE

CONDUCTOR/ RACEWAY TAG	COPPER		ALUMINUM EQUIVALENT	
	CONDUIT	WIRE	CONDUIT	WIRE
[200S]	2"	4#3/0, 1#6G	2 1/2"	4#250KCMIL, 1#4G
[225S]	2 1/2"	4#4/0, 1#4G	3"	4#300KCMIL, 1#2G
[250S]	2 1/2"	4#250KCMIL, 1#4G	3"	4#350KCMIL, 1#2G
[300S]	3"	4#350KCMIL, 1#4G	4"	4#500KCMIL, 1#2G
[350S]	4"	4#500KCMIL, 1#3G	(2) 2 1/2"	EA. W/4#4/0, 1#1G
[400S]	4"	4#600KCMIL, 1#3G	(2) 2 1/2"	EA. W/4#4/0, 1#1G
[600S]	(2) 3"	EA. W/4#350KCMIL, 1#1G	(3) 3"	EA. W/4#250KCMIL, 1#2/0G
[800S]	(2) 4"	EA. W/4#600KCMIL, 1#1/0G	(3) 3"	EA. W/4#400KCMIL, 1#3/0G
[1000S]	(3) 3"	EA. W/4#400KCMIL, 1#2/0G	(3) 4"	EA. W/4#600KCMIL, 1#4/0G
[1200S]	(4) 3"	EA. W/4#350KCMIL, 1#3/0G	(4) 4"	EA. W/4#500KCMIL, 1#250G
[1600S]	(5) 3"	EA. W/4#400KCMIL, 1#4/0G	(5) 4"	EA. W/4#600KCMIL, 1#350G
[2000S]	(6) 3"	EA. W/4#400KCMIL, 1#250G	(7) 4"	EA. W/4#500KCMIL, 1#400G
[2500S]	(7) 4"	EA. W/4#500KCMIL, 1#350G	(8) 4"	EA. W/4#600KCMIL, 1#600G
[3000S]	(8) 4"	EA. W/4#500KCMIL, 1#400G	(9) 4"	EA. W/4#600KCMIL, 1#600G
[20N]	1/2"	4#12, 1#12G	3/4"	4#10, 1#10G
[30N]	3/4"	4#10, 1#10G	1"	4#8, 1#8G
[40N]	3/4"	4#8, 1#10G	1"	4#6, 1#8G
[50N]	1"	4#6, 1#10G	1 1/4"	4#4, 1#8G
[60N]	1"	4#6, 1#10G	1 1/4"	4#4, 1#8G
[70N]	1 1/2"	4#4, 1#8G	1 1/4"	4#3, 1#8G
[80N]	1 1/2"	4#3, 1#8G	1 1/2"	4#2, 1#8G
[90N]	1 1/2"	4#2, 1#8G	2"	4#1, 1#8G
[100N]	1 1/2"	4#2, 1#8G	2"	4#1/0, 1#6G
[125N]	1 1/2"	4#1, 1#6G	2"	4#1/0, 1#4G
[150N]	1 1/2"	4#1/0, 1#6G	2"	4#2/0, 1#4G
[175N]	1 1/2"	4#2/0, 1#6G	2 1/2"	4#3/0, 1#4G
[200N]	2"	4#3/0, 1#6G	2 1/2"	4#4/0, 1#4G
[225N]	2 1/2"	4#4/0, 1#4G	3"	4#250KCMIL, 1#2G
[250N]	2 1/2"	4#250KCMIL, 1#4G	4"	4#350KCMIL, 1#2G
[300N]	3"	4#350KCMIL, 1#4G	4"	4#400KCMIL, 1#2G
[350N]	4"	4#500KCMIL, 1#3G	4"	4#600KCMIL, 1#1G
[400N]	4"	4#500KCMIL, 1#3G	(2) 2 1/2"	EA. W/4#4/0, 1#1G
[600N]	(2) 2 1/2"	EA. W/4#300KCMIL, 1#1G	(3) 3"	EA. W/4#250KCMIL, 1#2/0G
[800N]	(2) 3"	EA. W/4#500KCMIL, 1#1/0G	(3) 4"	EA. W/4#350KCMIL, 1#3/0G
[1000N]	(3) 4"	EA. W/4#400KCMIL, 1#2/0G	(3) 4"	EA. W/4#600KCMIL, 1#4/0G
[1200N]	(4) 3"	EA. W/4#350KCMIL, 1#3/0G	(4) 4"	EA. W/4#500KCMIL, 1#250G
[1600N]	(5) 3"	EA. W/4#400KCMIL, 1#4/0G	(5) 4"	EA. W/4#600KCMIL, 1#350G
[2000N]	(6) 4"	EA. W/4#400KCMIL, 1#250G	(7) 4"	EA. W/4#500KCMIL, 1#400G
[2500N]	(7) 4"	EA. W/4#500KCMIL, 1#350G	(8) 4"	EA. W/4#600KCMIL, 1#600G
[3000N]	(8) 4"	EA. W/4#500KCMIL, 1#400G	(9) 4"	EA. W/4#600KCMIL, 1#600G
[20]	1/2"	3#12, 1#12G	1/2"	3#10, 1#10G
[30]	3/4"	3#10, 1#10G	3/4"	3#8, 1#8G
[40]	3/4"	3#8, 1#10G	3/4"	3#6, 1#8G
[50]	1"	3#6, 1#10G	1"	3#4, 1#8G
[60]	1"	3#6, 1#10G	1"	3#4, 1#8G
[70]	1 1/2"	3#4, 1#8G	1 1/4"	3#3, 1#8G
[80]	1 1/2"	3#3, 1#8G	1 1/4"	3#2, 1#8G
[90]	1 1/2"	3#2, 1#8G	1 1/2"	3#1, 1#8G
[100]	1 1/2"	3#2, 1#8G	1 1/2"	3#1/0, 1#6G
[125]	1 1/2"	3#1, 1#6G	2"	3#1/0, 1#4G
[150]	1 1/2"	3#1/0, 1#6G	2"	3#2/0, 1#4G
[175]	1 1/2"	3#2/0, 1#6G	2"	3#3/0, 1#4G
[200]	2"	3#3/0, 1#6G	2 1/2"	3#4/0, 1#4G
[225]	2"	3#4/0, 1#4G	2 1/2"	3#250KCMIL, 1#2G
[250]	2 1/2"	3#250KCMIL, 1#4G	3"	3#350KCMIL, 1#2G
[300]	2 1/2"	3#350KCMIL, 1#4G	3"	3#400KCMIL, 1#2G
[350]	4"	3#500KCMIL, 1#3G	4"	3#600KCMIL, 1#1G
[400]	4"	3#600KCMIL, 1#3G	(2) 2 1/2"	EA. W/3#4/0, 1#1G
[600]	(2) 2 1/2"	EA. W/3#300KCMIL, 1#1G	(3) 2 1/2"	EA. W/3#250KCMIL, 1#2/0G
[800]	(2) 3"	EA. W/3#500KCMIL, 1#1/0G	(3) 3"	EA. W/3#350KCMIL, 1#3/0G
[1000]	(3) 3"	EA. W/3#400KCMIL, 1#2/0G	(3) 4"	EA. W/3#600KCMIL, 1#4/0G
[1200]	(4) 3"	EA. W/3#350KCMIL, 1#3/0G	(4) 4"	EA. W/3#500KCMIL, 1#250G
[2000]	(6) 4"	EA. W/3#400KCMIL, 1#250G	(7) 4"	EA. W/3#500KCMIL, 1#400G
[2500]	(7) 4"	EA. W/3#500KCMIL, 1#350G	(8) 4"	EA. W/3#600KCMIL, 1#600G
[3000]	(8) 4"	EA. W/3#500KCMIL, 1#400G	(9) 4"	EA. W/3#600KCMIL, 1#600G
[20V]	1/2"	2#12, 1#12G	1/2"	2#10, 1#10G
[30V]	3/4"	2#10, 1#10G	3/4"	2#10, 1#8G
[40V]	3/4"	2#8, 1#10G	3/4"	2#8, 1#8G
[50V]	1"	2#6, 1#10G	3/4"	2#6, 1#8G
[60V]	1"	2#6, 1#10G	1"	2#4, 1#8G

NOTES:

* INDICATES THAT FEEDER HAS BEEN SIZED FOR VOLTAGE DROP.
** INDICATES THAT AN ISOLATED GROUND CONDUCTOR SHALL BE PROVIDED, SAME SIZE AS EQUIPMENT GROUND CONDUCTOR.



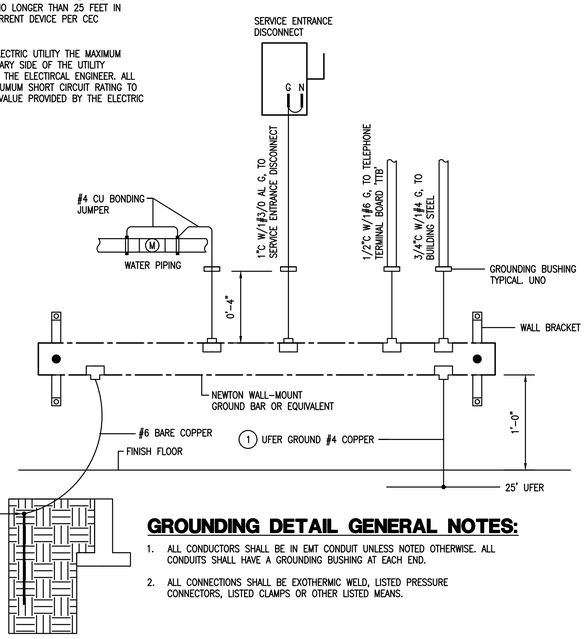
1 ONE-LINE DIAGRAM
SCALE: NTS

KEYED NOTES: (#)

5. 1. PROVIDE POLARIS FEEDER TAPS OR BUSSING WITH LUGS INSIDE ENCLOSURE.
2. THE SECONDARY FEEDER LENGTH CAN BE NO LONGER THAN 25 FEET IN LENGTH PRIOR TO TERMINATION ON OVERCURRENT DEVICE PER CEC 240.21(C)(6).
3. CONTRACTOR TO VERIFY WITH THE LOCAL ELECTRIC UTILITY THE MAXIMUM AVAILABLE FAULT CURRENT ON THE SECONDARY SIDE OF THE UTILITY TRANSFORMER AND PROVIDE THIS VALUE TO THE ELECTRICAL ENGINEER. ALL DOWNSTREAM EQUIPMENT IS TO HAVE A MINUMUM SHORT CIRCUIT RATING TO WITHSTAND THE AVAILABLE FAULT CURRENT VALUE PROVIDED BY THE ELECTRIC UTILITY.

5 EMERGENCY GENERATOR 100 kW, 208Y/120V, 3PH, 60HZ NEMA 3R ENCLOSURE DIESEL FUEL, 62HR BELLY TANK

400A/3P
60A/3P
G E



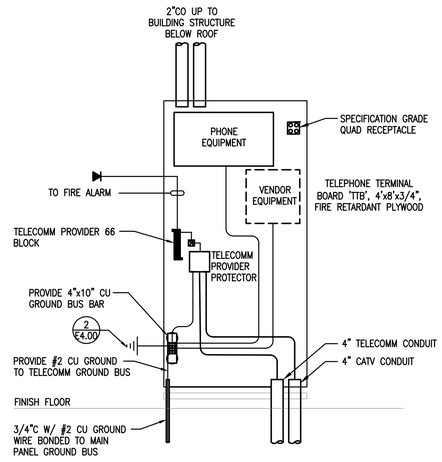
GROUNDING DETAIL GENERAL NOTES:

1. ALL CONDUCTORS SHALL BE IN EMT CONDUIT UNLESS NOTED OTHERWISE. ALL CONDUITS SHALL HAVE A GROUNDING BUSHING AT EACH END.
2. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS.

GROUNDING DETAIL KEYED NOTES: (#)

1. UFER GROUND TO BE 25' OF #4 AWG COPPER OR 1/2" MINIMUM DIAMETER STEEL REINFORCING BAR PER CEC 250.52

2 SYSTEM GROUNDING & BONDING DETAIL
SCALE: NTS



3 TELEPHONE TERMINAL BOARD DETAIL
SCALE: N.T.S.

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REGISTERED PROFESSIONAL ENGINEER
WILLIAM BURTON CRABB
E 22683
ELECTRICAL
STATE OF CALIFORNIA
07/25/2022

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ONE-LINE DIAGRAM & DETAILS

SHEET E4.00
OF ___ SHEETS
JOB NO. 1509-00

MECHANICAL LEGEND

EQUIPMENT

- FLEXIBLE DUCTWORK
- LINED DUCTWORK
- DEMO
- THERMOSTAT
- TEMPERATURE SENSOR
- SMOKE DETECTOR
- CO2 SENSOR
- MOTORIZED DAMPER
- BAROMETRIC DAMPER
- BACK DRAFT DAMPER
- MANUAL VOLUME DAMPER
- COMBINATION SMOKE/FIRE DAMPER
- FIRE DAMPER
- EQUIPMENT CALLOUT
- DETAIL CALLOUT
- TEMPERATURE GAUGE
- POINT OF CONNECTION
- INTAKE OR EXHAUST
- DIRECTION OF AIRFLOW
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- ROUND DUCTWORK BREAK
- DUCTWORK BREAK
- DUCTWORK RISE
- DUCTWORK DROP
- SPIN-IN SUPPLY (WITH VOLUME DAMPER)
- SPIN-IN RETURN/EXHAUST (WITH VOLUME DAMPER)
- 45° SQUARE DUCT TAKE-OFF FROM SQUARE DUCT
- 45° ROUND DUCT TAKE-OFF FROM SQUARE DUCT
- 45° ROUND DUCT TAKE-OFF FROM ROUND DUCT
- TURNING VANE
- MITERED CORNER
- RADIUS ELBOW

ABBREVIATIONS & DESCRIPTIONS

AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BTU	BRITISH THERMAL UNITS
BTUH	BTU'S PER HOUR
CA	COMBUSTION AIR
CC	COOLING COIL
CFF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CW	COLD WATER
DEG	DEGREE
DIA	DIAMETER
DB	DRY BULB TEMPERATURE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FEET
GA	GAUGE
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HP	HORSEPOWER
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
HVAC	HEATING, VENTILATING, AIR CONDITIONING
KES	KITCHEN EQUIPMENT SUPPLIER
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MIN	MINIMUM
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SFD/FSD	COMBINATION SMOKE/FIRE DAMPER
SP	STATIC PRESSURE
SYM	SYMBOL
T&P	TEMPERATURE AND PRESSURE
TEMP	TEMPERATURE
TYP	TYPICAL
UMC	UNIFORM MECHANICAL CODE
UPC	UNIFORM PLUMBING CODE
VTR	VENT THROUGH ROOF
V	VOLTS
WB	WET BULB
W/	WITH

SHEET INDEX

PROJECT CODE:

COMPLY WITH THE 2019 CALIFORNIA PLUMBING CODE, THE 2019 CALIFORNIA MECHANICAL CODE, THE 2019 CALIFORNIA BUILDING CODE, THE 2019 CALIFORNIA FIRE CODE, AND 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, AND THE 2019 CALIFORNIA ENERGY CODE. COMPLY WITH DIVISION 16 AND ALL CODES REFERENCED THEREIN FOR ANY AND ALL ELECTRICAL WORK.

SEISMIC DESIGN NOTE:

PROJECT IS LOCATED IN A SEISMIC CATEGORY D, RISK CATEGORY II ZONE. ALL EQUIPMENT, DUCTWORK, PIPING AND SUPPORTS SHALL BE ASSIGNED AN IMPORTANCE FACTOR OF 1.0. INSTALLATION AND DESIGN OF ALL EQUIPMENT, DUCTWORK, PIPING AND SUPPORTS SHALL COMPLY WITH THE REQUIREMENTS OF THE ASCE7-16 AND 2019 CBC AS IT APPLIES TO NON STRUCTURAL COMPONENTS. SEISMIC DESIGN REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND REFRIGERATION SYSTEMS SHALL BE HANDLED AS A DEFERRED SUBMITTAL

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1601 N. Imperial Ave., El Centro CA. 92243, (760) 337-3883
36951 Cook Street, Palm Desert CA 92211, (760) 427-8533

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DESIGN BY:
DRAWN BY: DM
CHECKED BY: JB

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Phone: 208.288.2181

Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER
JARED H. MILLER
NO. 31885
MECHANICAL
STATE OF CALIFORNIA

07-25-22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
HVAC - COVER SHEET

SHEET M0.00
OF ___ SHEETS
JOB NO. 1509-00

22MBA04 Seeley Fire Station and Cooling Center

BASED ON 2019 CMC AND 2019 CA BUILDING ENERGY EFFICIENCY STANDARDS
COMMERCIAL VENTILATION SECTION

PROJECT DESIGN CONDITIONS

PROJECT LOCATION	Seeley, CA
DESIGN TEMP HEATING DB	35
DESIGN TEMP COOLING DB	112
DESIGN TEMP COOLING WB	74
PROJECT ELEVATION	-43
SPACE HEATING	70
SPACE COOLING	75

OSA & LOAD CALCULATION TABLE

EQUIPMENT SERVING SPACE	ROOM NAME & NUMBER	AREA (SF)	ROOM TYPE	DEFAULT OCCUPANCY	Ez	TOTAL CODE MINIMUM OSA (CFM)	DESIGN OSA (CFM)	TOTAL EXHAUST AIR (CFM)	DESIGN EXHAUST AIR (CFM)	ADDED ELECTRICAL LOAD (W)	SENSIBLE COOLING (MBH)	LATENT COOLING (MBH)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)
GF-1/CU-1	COOLING CENTER	869	General: Conference/meeting	44	0.8	544	545	0	0	0	37629	526	38155	28397
Total		869				544	545	0	0				38155	28397

EQUIPMENT SERVING SPACE	ROOM NAME & NUMBER	AREA (SF)	ROOM TYPE	DEFAULT OCCUPANCY	Ez	TOTAL CODE MINIMUM OSA (CFM)	DESIGN OSA (CFM)	TOTAL EXHAUST AIR (CFM)	DESIGN EXHAUST AIR (CFM)	ADDED ELECTRICAL LOAD (W)	SENSIBLE COOLING (MBH)	LATENT COOLING (MBH)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)
GF-2/CU-2	UNI-SEX R/R 113	77	Non-Occupiable	0	0.8	0	0	75	75	0	541	0	541	577
	LOCKERS	130	Hotels, motels, resorts, dormitories: Lobbies/pre-function	4	0.8	82	85	125	125	0	5129	12	5141	3911
	UNI-SEX R/R 114	93	Non-Occupiable	0	0.8	0	0	150	150	0	1056	0	1056	1062
	HALLWAY	366	General: Corridors	0	0.8	69	70	0	0	0	3126	0	3126	2725
	WASH ROOM	138	Non-Occupiable	0	0.8	0	0	150	150	0	970	0	970	979
	KITCHEN	95	Food and beverage service: Kitchen (cooking)	2	0.8	34	35	50	50	0	2504	34	2538	1978
	LIVING ROOM	281	Hotels, motels, resorts, dormitories: Bedroom/living room	3	0.8	54	55	0	0	0	5785	20	5805	4555
	BED #3	84	Hotels, motels, resorts, dormitories: Barracks sleeping areas	2	0.8	20	20	0	0	0	1855	131	1986	1378
	JANITOR	52	Non-Occupiable	0	0.8	0	0	50	50	0	365	0	365	400
	OFFICE 101	105	Office buildings: Office space	1	0.8	20	20	0	0	0	3230	9	3239	1973
	OFFICE 102	97	Office buildings: Office space	1	0.8	19	20	0	0	0	3230	9	3239	1973
	BED #2	98	Hotels, motels, resorts, dormitories: Barracks sleeping areas	2	0.8	20	20	0	0	0	2220	145	2365	1719
	BED #1	98	Hotels, motels, resorts, dormitories: Barracks sleeping areas	2	0.8	20	20	0	0	0	2665	157	2822	1996
Total		1714				338	345	600	600				33193	25226

EQUIPMENT SERVING SPACE	ROOM NAME & NUMBER	AREA (SF)	ROOM TYPE	DEFAULT OCCUPANCY	Ez	TOTAL CODE MINIMUM OSA (CFM)	DESIGN OSA (CFM)	TOTAL EXHAUST AIR (CFM)	DESIGN EXHAUST AIR (CFM)	ADDED ELECTRICAL LOAD (W)	SENSIBLE COOLING (MBH)	LATENT COOLING (MBH)	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)
F-1,2	APPARATUS ROOM	1560	Miscellaneous spaces: All Others	0	0.8	293	295	1600	1600	0	36240	0	36240	31403
Total		1560				293	295	1600	1600				36240	31403

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		02/18/2022
3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY:

DRAWN BY: DM

CHECKED BY: JB

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REGISTERED PROFESSIONAL ENGINEER
JARED H. MILLER
NO. 31885
MECHANICAL
STATE OF CALIFORNIA

07–25–22

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:

HVAC CALCULATIONS

SHEET M0.01

OF ___ SHEETS

JOB NO. 1509-00

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.		
Project Name:	Seeley Fire Station and Cooling Center	**Report Page:** (Page 1 of 10)
Project Address:		**Date Prepared:** 3/29/2022

A. GENERAL INFORMATION

01	Project Location (city)	Seeley	04	Total Conditioned Floor Area	2583
02	Climate Zone	15	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☒ Office (B)	☐ Retail (M)	☐ Non-refrigerated Warehouse (S)			
☐ Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐ Healthcare Facility (I)			
☐ High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☐ Other (write in)	See Table J		

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☐ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	**Report Page:** (Page 2 of 10)
Project Address:		**Date Prepared:** 3/29/2022

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	**Report Page:** (Page 3 of 10)
Project Address:		**Date Prepared:** 3/29/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
GF-1, CU-1	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	58	58	0	29.75	34.93	6.67	19.5
GF-2, CU-1	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	58	58	0	30.36	34.93	15.3	36.56

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
GF-1, CU-1	<65,000		AFUE	0.80	0.965	SEER	14.0	16
GF-2, CU-1	<65,000		AFUE	0.80	0.965	SEER	14.0	16

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	**Report Page:** (Page 4 of 10)
Project Address:		**Date Prepared:** 3/29/2022

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	GF-1, CU-1	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B: Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.5		
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	1.32

System Name:	GF-2, CU-1	**Economizer:**[1]	NA: <=54 kBtu/h cooling	**Economizer Controls:**	Designed per §140.4(e) and (m)	**System Fan Type:**	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B: Device	Design Airflow through Device (CFM)
SF	Supply	1	1400	BHP	0.5		
Total System Design Supply Airflow (CFM):			1400	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	1.32

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	**Report Page:** (Page 5 of 10)
Project Address:		**Date Prepared:** 3/29/2022

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
GF-1, CU-1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
GF-2, CU-1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventialtion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04		05			06			07
System Name	GF-1, CU-1	System Design OA CFM Airflow[1]		130	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 [2]: Provided per §120.1(c) (NR and Hotel/Motel))
08	09	10	11	12	13	14	15	16

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	**Report Page:** (Page 6 of 10)
Project Address:		**Date Prepared:** 3/29/2022

J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Offices	Office space	869			130.4	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				130	18	Ventilation for this System Complies?	Yes
04	05				06		07	
System Name	GF-2, CU-1	System Design OA CFM Airflow[1]		257	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2]: Provided per §120.1(c) (NR and Hotel/Motel))	
08	09	10	11	12	13	14	15	16

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]				Exh. Vent per §120.1(c)4		DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
Offices	Office space	1714			257.1	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				257	18	Ventilation for this System Complies?	Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

[2] *Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*

[4] *See Standards Tables 120.1-A and 120.1-B.*

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		02/18/2022
3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY:
DRAWN BY: DM
CHECKED BY: JB

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REGISTERED PROFESSIONAL ENGINEER — JARED H. MILLER — NO. 31885 — MECHANICAL — STATE OF CALIFORNIA
07–25–22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
HVAC - TITLE 24 SHEETS

SHEET M0.02
OF ___ SHEETS
JOB NO. 1509-00

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	Report Page: (Page 7 of 10)
Project Address:		Date Prepared: 3/29/2022

J. VENTILATION AND INDOOR AIR QUALITY

[5] For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.

[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	Report Page: (Page 8 of 10)
Project Address:		Date Prepared: 3/29/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	☐	☐
●	○	NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	☐	☐
○	●	NRCA-MCH-04-A - Air Distribution Duct Leakage	☐	☐
○	●	NRCA-MCH-05-A - Air Economizer Controls	☐	☐
○	●	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	☐	☐
○	●	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
○	●	NRCA-MCH-08-A Valve Leakage Test	☐	☐
○	●	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
○	●	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
○	●	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
○	●	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
○	●	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
○	●	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to "Yes".	☐	☐
○	●	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutecti Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".	☐	☐
○	●	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
○	●	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
○	●	NRCA-MCH-18-A Energy Management Control Systems	☐	☐

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	Report Page: (Page 9 of 10)
Project Address:		Date Prepared: 3/29/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

○	●	NRCA-MCH-19-A Occupancy Sensor Controls	☐	☐
○	●	NRCA-MCH-20 Multi-Family Ventilation	☐	☐
○	●	NRCA-MCH-21 Multi-Family Envelope Leakage	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
○	●	NRCV-MCH-04-H Duct Leakaage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-24 Enclosure Air Leakaage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-27 High-rise Resdential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location: M-Sheets

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	Seeley Fire Station and Cooling Center	Report Page: (Page 10 of 10)
Project Address:		Date Prepared: 3/29/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jesse Baggenstos	Documentation Author Signature:
Company: DC Engineering	Signature Date: 3/29/22
Address: 440 E Corporate Dr Suite 103	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Meridian ID 82642	Phone: 208 493 0081

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Jared H Miller	Responsible Designer Signature:
Company: DC Engineering	Date Signed: 2022-03-29
Address: 440 E Corporate Dr Suite 103	License: 31885
City/State/Zip: Meridian ID 83642	Phone: 2082882181

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	Seeley Fire Station and Cooling Center	Report Page: (Page 1 of 6)
Project Address:		Date Prepared: 3/29/2022

This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.

Project Name:	Seeley Fire Station and Cooling Center	Report Page: (Page 1 of 6)
Project Address:		Date Prepared: 3/29/2022

A. GENERAL INFORMATION

01	Project Location (city)	Seeley	02	Climate Zone	15
03	Occupancy Types Within Project (select all that apply):				
☒ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel			
☐ State Building	☐ Healthcare Facility	☐ Other (Write In)			

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1] FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.

[2] Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	Seeley Fire Station and Cooling Center	Report Page: (Page 2 of 6)
Project Address:		Date Prepared: 3/29/2022

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY: —
DRAWN BY: DM
CHECKED BY: JB

DC ENGINEERING
Careful listening. Dynamic solutions.
www.dcengineering.net
Phone: 208.288.2181 Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER — JARED H. MILLER — NO. 31885 — MECHANICAL — STATE OF CALIFORNIA
07-25-22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
HVAC - TITLE 24 SHEETS

SHEET M0.03
OF ___ SHEETS
JOB NO. 1509-00

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	Seeley Fire Station and Cooling Center	**Report Page:** (Page 3 of 6)
Project Address:		**Date Prepared:** 3/29/2022

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)8 must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Individual Systems

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF)[1]
Bradford White	Residential-Duty Commercial Gas-Fired Storage (75,000-105,000 BTUH)	>75	GPM >= 4.0	0.575	0.57

[1]*FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating <6.8 kBTUH or 2 kW has been specified per §110.3(c)6

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

12	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3 : • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
13	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(j)3

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

TABLE 120.3-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			< 1	1 to < 1.5	1.5 to < 4
			Minimum Insulation Required		
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).
02	☒	☐	☐	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)1 unless covered by California Plumbing Code §13.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)8Bii, or §150.2 for additions or alterations.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)8.
06	☐	☐	☒	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)1Hiii.

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	Seeley Fire Station and Cooling Center	**Report Page:** (Page 5 of 6)
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I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance.	☐	☐
○	●	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.	☐	☐

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
○	●	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification	☐	☐
○	●	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	☐	☐

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
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Company: DC Engineering	Signature Date: 3/29/22
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Company: DC Engineering	Date Signed: 2022-03-29
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DESIGN BY:
DRAWN BY: DM
CHECKED BY: JB

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REGISTERED PROFESSIONAL ENGINEER JARED H. MILLER NO. 31885 MECHANICAL STATE OF CALIFORNIA
07-25-22

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SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
HVAC - TITLE 24 SHEETS

SHEET M0.04
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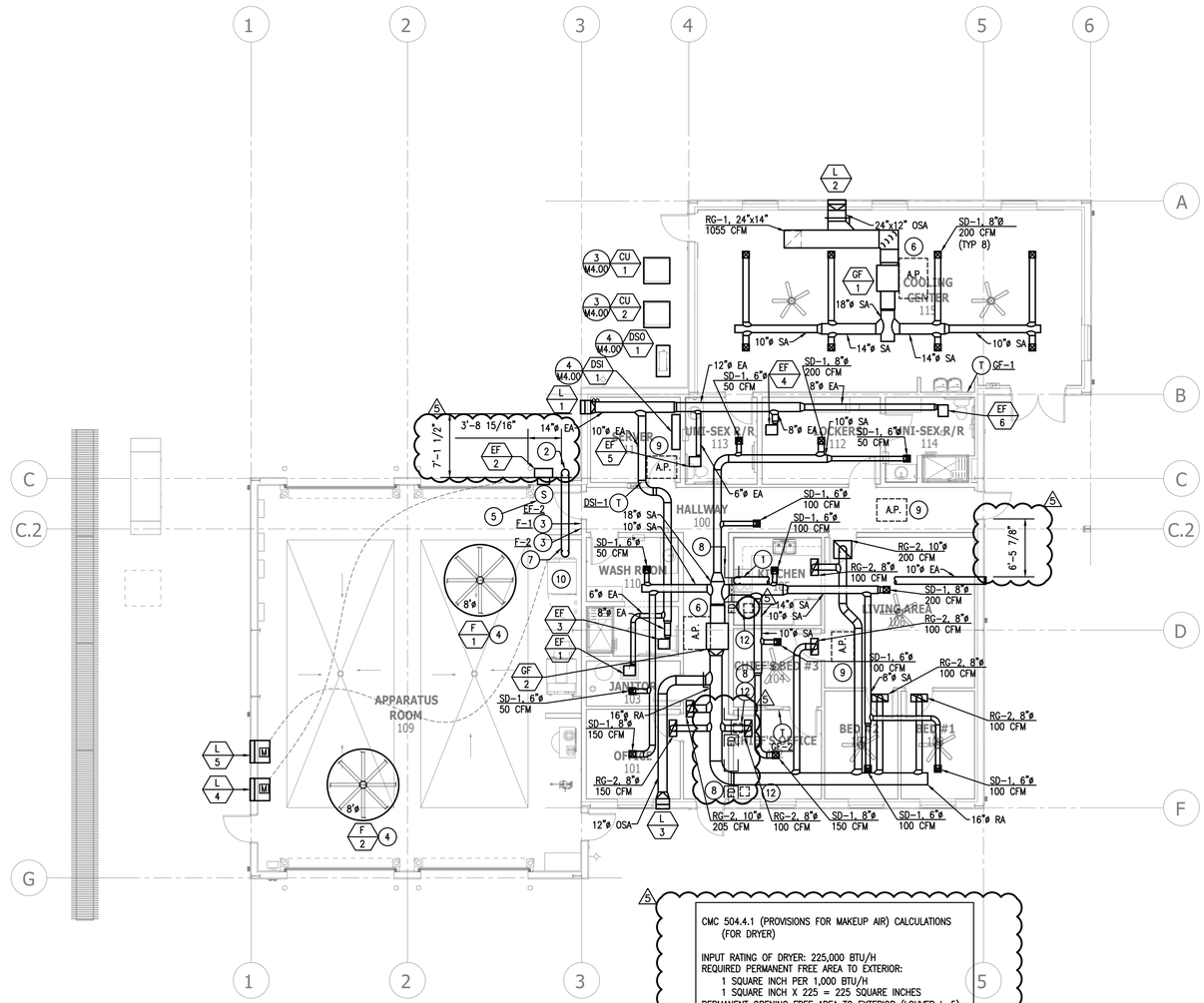

CMC 504.4.1 (PROVISIONS FOR MAKEUP AIR) CALCULATIONS (FOR DRYER)

INPUT RATING OF DRYER: 225,000 BTU/H
REQUIRED PERMANENT FREE AREA TO EXTERIOR:
1 SQUARE INCH PER 1,000 BTU/H
1 SQUARE INCH X 225 = 225 SQUARE INCHES
PERMANENT OPENING FREE AREA TO EXTERIOR (LOUVER L-5):
3.27 SQUARE FEET (471 SQUARE INCHES).
471>225, SO THE INTAKE LOUVER IS SIZED APPROPRIATELY.
THE DRYER IS NOT INSTALLED WITH AN ALCOVE, IT IS OPEN TO THE APPARATUS BAY.

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

NORTH

GENERAL NOTES:

G1 CONTRACTOR TO COORDINATE ALL EQUIPMENT LOCATIONS AND WALL PENETRATIONS WITHIN THE SCOPE OF THIS PROJECT. PLUMBING VENTS, REGULATOR VENTS, FLUES, AND EXHAUST AIR OUTLETS TO BE KEPT A MINIMUM OF 10' AWAY FROM OUTSIDE AIR INTAKE LOCATIONS.

G2 ALL SUPPLY, RETURN AND OUTSIDE AIR DUCT TO BE INSULATED PER 2019 TITLE 24 ENERGY STANDARDS.

G3 SEE DETAIL 1, SHEET M4.00 FOR TYPICAL DUCT SUPPORT DETAIL.

G4 SEE DETAIL 2, SHEET M4.00 FOR TYPICAL LAY-IN DIFFUSER DETAIL.

G5 MOUNT ALL TSTATS AND SWITCHES WITH TOP OF TSTAT OR SWITCH AT 48" A.F.F.

G6 PROVIDE ACOUSTICAL DUCT LINER FOR FIRST 10' OF SUPPLY AND RETURN AIR MAIN DUCTS.

G7 ANY REQUIRED SEISMIC RESTRAINTS FOR SUSPENDED DUCTWORK/EQUIPMENT/PIPING SHALL DESIGNED AS A DEFERRED SUBMITTAL BY MECHANICAL CONTRACTOR.

G8 REFER TO SHEET A4.00 FOR ALL ACCESS PANELS, GRILLES, AND DIFFUSER LOCATIONS.

5 G9 DUCT LEAKAGE TEST SHALL BE CONDUCTED THAT COMPLIES WITH CMC 603.10.1.

G10 ALL FLEX DUCT SHALL COMPLY WITH CMC 603.4.1 & 603.5 FOR LENGTH LIMITATIONS FOR FACTORY MADE FLEXIBLE AIR DUCTS: (1) CANNOT BE GREATER THAN 5' IN LENGTH, (2) CANNOT BE USED AS A REPLACEMENT OF RIGID ELBOWS (I.E. ONLY AN ELBOW CONNECT TO A TERMINAL DEVICE/REGISTER IS ACCEPTABLE), (3) SAG BETWEEN SUPPORTS HANGERS SHALL NOT EXCEED ½" PER FOOT OF SUPPORT SPACING, AND (4) THE ELBOW CONNECTION TO THE TERMINAL DEVICE/REGISTER IS REQUIRED TO HAVE A BEND RADIUS NOT LESS THAN ONE DUCT DIAMETER.

KEYED NOTES: (1)

1. 10"ø EXHAUST AIR DUCT FOR DOMESTIC RANGE HOOD. ROUTE TO EXTERIOR AND TERMINATE WITH WALL FLAPPER IF BACKDRAFT DAMPER NOT PROVIDED AT HOOD.
2. ROUTE 10" DRYER VENT THROUGH SIDEWALL. TERMINATE WITH 90 DEGREE TURNDOWN. MAINTAIN 3' CLEARANCE TO EXTERIOR DOOR.
3. FAN WALL SWITCH.
4. COORDINATE EXACT LOCATION TO AVOID SPRINKLER CONFLICTS.
5. WALL SWITCH FOR EF-2. INTERLOCK WITH L-4 ACTUATOR.
6. PROVIDE ACCESS PANEL LARGE ENOUGH TO REMOVE FURNACE AND ACCESS FILTER RACK. COORDINATE EXACT LOCATION IN FIELD.

5 7. INTERLOCK L-5 ACTUATOR WITH DRYER. 10"ø DRYER VENT, VENT MATERIAL PER MANUFACTURER'S REQUIREMENTS.

8. SEE DETAIL 1, SHEET M4.01 FOR FIRE DAMPER DETAIL.

5 9. PROVIDE 40"x30" ACCESS PANEL FOR GENERAL ABOVE CEILING ACCESS.

10. GAS FIRED DRYER PROVIDED BY OWNER, UNIMAC MODEL UTF75DN. INSTALL PER ALL MANUFACTURER'S INSTALLATION REQUIREMENTS, REFERENCE MANUFACTURER'S INSTALLATION MANUAL. SEE KEYNOTE 7 AS WELL.
11. EF-2 IS INTENDED TO PROVIDE SOME COOLING VENTILATION WHEN THE OVERHEAD DOORS ARE CLOSED. IT IS NOT A SOURCE OF ENVIRONMENTAL AIR EXHAUST. EF-2 IS CLOSER THAN 3' TO THE OVERHEAD DOOR, BUT WHEN THE OVERHEAD DOORS ARE OPEN, THE APPARATUS BAY BECOMES AN OPEN AIR SPACE. PER THE INTENT OF THE CODE, THERE IS NO DETRIMENTAL AFFECT FROM LOCATING EF-2 CLOSER THAN 3' FROM THE OVERHEAD DOOR.
12. PROVIDE 12"x12" ACCESS PANEL IN CEILING FOR ACCESSING/INSPECTING FIRE DAMPERS. PROVIDE CORRESPONDING ACCESS DOOR IN DUCT. COORDINATE EXACT LOCATION IN FIELD.

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MECHANICAL
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07-25-22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
HVAC PLAN

SHEET M2.11
OF ___ SHEETS
JOB NO. 1509-00

FURNACE SCHEDULE

EQUIP. NO.	SERVICE	CORRESPONDING OUTDOOR UNIT	FAN		OSA CFM	DX COOLING	GAS HEAT			ELECTRICAL					WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOTES
			CFM	E.S.P. (IN. W.C.)		NOMINAL TONS	STAGES	INPUT (MBH)	OUTPUT (MBH)	AFUE	VOLTAGE	PHASE	MCA	MOCP				
GF-1	SEE PLANS	CU-1	1600	0.5	545	4	1	80	78	96.5%	115	1	13.4	15	150	CARRIER	59SC5B080E17**16	1,2,3,4
GF-2	SEE PLANS	CU-2	1400	0.5	345	3.5	1	60	58	96.5%	115	1	12.9	15	140	CARRIER	59SC5B060E17**14	1,2,3,4

ALTERNATE MANUFACTURERS: CARRIER, TRANE, YORK, LENNOX, RHEEM

NOTES:
1. PROVIDE VIBRATION ISOLATION HANGERS
2. PROVIDE FACTORY CONDENSATE KIT WITH CONDENSATE OVERFLOW CUT-OFF SWITCH AND NEUTRALIZATION KIT
3. PROVIDE PROGRAMMABLE 7-DAY THERMOSTAT WITH 5 DEGREE DEADBAND
4. PROVIDE MERV 8 FILTERS

CONDENSING UNIT SCHEDULE

EQUIP. NO.	LOCATION	CORRESPONDING INDOOR UNIT	NOMINAL TONS	DX COOLING			ELECTRICAL				WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOTES
				STAGES	SENSIBLE CAP. (MBH)	TOTAL CAP. (MBH)	VOLTAGE	PHASE	MCA	MOCP				
CU-1	SEE PLANS	GF-1	4	1	39.2	39.2	208	1	26.1	40	295	CARRIER	24ACC648A**30	1,2,3,4
CU-2	SEE PLANS	GF-2	3.5	1	34.93	34.93	208	1	23.6	40	285	CARRIER	24ACC642A**30	1,2,3,4

ALTERNATE MANUFACTURERS: CARRIER, TRANE, YORK, LENNOX, RHEEM

NOTES:
1. COOLING CAPACITIES RATED AT 115F OUTDOOR TEMP, HEATING CAPACITIES RATED AT 47F OUTDOOR TEMP, SEA LEVEL ELEVATION
2. PROVIDE INSULATED LINESET. ALL LINESETS TO BE SIZED FOR INSTALLED CONDITIONS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PROVIDE LONG-LENGTH ACCESSORIES IF REQUIRED.
3. PROVIDE CONCRETE HOUSEKEEPING PAD

EXHAUST FAN SCHEDULE

TAG	SERVICE	CFM	STATIC PRESSURE (IN. W.C.)	ELECTRICAL				SONES	WEIGHT	CONTROL	MANUFACTURER	MODEL NUMBER	NOTES
				VOLTAGE	PHASE	WATTS	HP						
EF-1	103 JANITOR	50	0.35	120	1	27	-	1.3	16	INTERLOCK W/ LIGHTS	COOK	GC-128	1,2,3,4
EF-2	APPARATUS RM	1600	0.25	115	1	181	1/2	9.8	26	WALL SWITCH	COOK	14XW32D17EC	1,4,5,6,7
EF-3	110 WASH ROOM	150	0.35	120	1	55	-	3.5	17	INTERLOCK W/ LIGHTS	COOK	GC-168	1,2,3,4
EF-4	112 LOCKERS	125	0.35	120	1	46	-	2.5	17	INTERLOCK W/ LIGHTS	COOK	GC-166	1,2,3,4
EF-5	113 UNI-SEX R/R	75	0.35	120	1	34	-	1.5	17	INTERLOCK W/ LIGHTS	COOK	GC-146	1,2,3,4
EF-6	114 UNI-SEX R/R	150	0.35	120	1	55	-	3.5	17	INTERLOCK W/ LIGHTS	COOK	GC-168	1,2,3,4

ALTERNATE MANUFACTURERS: GREENHECK, PANASONIC, PENNBARRY, CARNES, ACME, TWIN CITY, BROAN, NUTONE

NOTES:
1. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONTROLS
2. PROVIDE SPEED CONTROL ACCESSORY
3. CEILING MOUNTED FAN WITH INTEGRAL BACKDRAFT DAMPER, PROVIDE CEILING GRILLE
4. PROVIDE DISCONNECT
5. FURNISH WITH EC MOTOR, SPEED CONTROL, STEEL 90° WEATHER HOOD, HOUSING BACKDRAFT DAMPER, DISCONNECT, AND BIRDSCREEN
6. PROVIDE WITH THERMAL OVERLOAD PROTECTION
7. PROVIDE WITH WALL SLEEVE, FAN GUARD, AND BUG SCREEN, WALL OPENING = 20-7/16"x20-7/16"

AIR DISTRIBUTION DEVICES

(A), (B) / (C) — SD-1, 10"ø, 250 CFM

1,2, AND 3-WAY AIR DEVICES ARE DETERMINED BY BLOCKED OFF SECTIONS ON DRAWINGS.

1-WAY 2-WAY 2-WAY 3-WAY 4-WAY

SYMBOL KEY :
A. FIRST LETTER: S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER
SECOND LETTER: D-DIFFUSER R-REGISTER G-GRILLE
B. LEAD-IN DUCT SIZE, UNLESS NOTED OTHERWISE
C. CFM

SYMBOL	SIZE	CFM RANGE	MOUNTING					MATERIAL		ACCESSORIES	MANUFACTURER MODEL #	NOTES
	NOMINAL DUCT		SIDEWALL	LAY-IN CEILING	HARD CEILING	DUCT	FLOOR	STEEL	ALUM.	FACE OPERATED DAMPER		
SD-1	9"x9"	0-200	–	–	X	–	–	X	–	X	TITUS MODEL-TDC	CEILING SUPPLY DIFFUSER
RG-1	22"x22"	601-1500	–	–	X	–	–	X	–	X	TITUS MODEL-25RL	CEILING RETURN GRILLE, AIRFOIL
RG-2	22"x10"	0-600	–	–	X	–	–	X	–	X	TITUS MODEL-25RL	CEILING RETURN GRILLE, AIRFOIL

ALTERNATE MANUFACTURERS: TITUS, PRICE, METAL-AIRE, NAILOR, CARNES, TUTTLE & BAILEY

NOTES:
1. CONTRACTOR TO VERIFY AND PROVIDE ALL MOUNTING HARDWARE FOR APPLICABLE CEILING TYPES.
2. FINISH TO BE COORDINATED WITH ARCHITECT PRIOR TO SUBMITTAL.
3. CONTRACTOR TO PROVIDE TRANSITIONS FROM LEAD-IN DUCT SIZE TO NOMINAL DUCT SIZE AS REQUIRED.
4. NC VALUES NOT TO EXCEED 25.
5. NOMINAL DUCT SIZE DOES NOT INCLUDE THE SIZE OF THE BORDER. NOMINAL DUCT SIZE REFERS TO THE DUCT SIZE CONNECTION AT THE DIFFUSER OR GRILLE.

CEILING FAN SCHEDULE

(F)

EQUIPMENT NO.	LOCATION	MOTOR			WEIGHT (LBS)	DIAMETER (FEET)	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
		HP	RPM	VOLT.-PH.-CY.				
F-1/2	SEE PLANS	–	158	208-1-60	75	8	BIG ASS FANS ESSENCE	FAN SHALL BE OPERATED AT 30% OF MAX SPEED. MEET ALL MANUFACTURER CLEARANCE REQUIREMENTS. OPERATE WITH WALL SWITCH

ALTERNATE MANUFACTURERS: MACROAIR.

NOTES:
- PROVIDE WITH REQUIRED UNIVERSAL MOUNTING ACCESSORIES, MOUNT PER MANUFACTURER'S RECOMMENDATIONS AND STRUCTURAL DETAILS.
- PROVIDE MANUFACTURER'S DISCONNECT SWITCH AND ASSOCIATED COMPONENTS FOR A COMPLETE INSTALLATION.
- INSTALL WITH BOTTOM OF FAN AT 16' A.F.F.

DUCTLESS SPLIT HEAT PUMP SCHEDULE

(DSO)

EQUIPMENT NO.	SERVICE	NOMINAL CAPACITY	SEER/ HSPF	ELECTRICAL (INDOOR UNIT)			ELECTRICAL (OUTDOOR UNIT)			WEIGHT (OUTDOOR UNIT) (LBS)	MANUFACTURER & MODEL (INDOOR UNIT)	MANUFACTURER & MODEL (OUTDOOR UNIT)	OPTIONS-ACCESSORIES
				MCA	MOCP	VOLT.-PH.-CY.	MCA	MOCP	VOLT.-PH.-CY.				
DSO/DSI-1	SERVER	2 TON	20.5/11.5	--	--	--	20	30	240-1-60	150	CARRIER 40MAQB24B	CARRIER 38MAQB24R	PROVIDE WITH EQUIPMENT STAND, T-STAT. PROVIDE LINE SET SIZED PER MANUFACTURER'S INSTRUCTIONS.

ALTERNATE MANUFACTURERS: TRANE, LENNOX, LG, DAIKIN, MITSUBISHI

NOTES:
- INDOOR UNIT IS POWERED BY OUTDOOR UNIT, ELECTRICAL REQUIREMENTS ARE COMBINED.
- UNIT SHALL OPERATE DOWN TO -13°F, COOLING, -22°F, HEATING.
- PROVIDE CONDENSATE PUMP

LOUVER SCHEDULE

(L)

EQUIPMENT NO.	SERVICE	WIDTH	HEIGHT	FREE AREA (SQ. FT)	THICKNESS OF FRAME	MATERIAL	SCREEN	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
L-1	EXHAUST	18"	18"	1.00	6"	ALUMINUM	1/2" EXP. ALM.	RUSKIN ELF6375DX	--
L-2	OSA	24"	24"	1.89	6"	ALUMINUM	1/2" EXP. ALM.	RUSKIN ELF6375DX	--
L-3	OSA	18"	18"	1.00	6"	ALUMINUM	1/2" EXP. ALM.	RUSKIN ELF6375DX	--
L-4	OSA	30"	30"	3.27	6"	ALUMINUM	1/2" EXP. ALM.	RUSKIN ELF6375DX	PROVIDE MOTORIZED 120V DAMPER AND INTERLOCK WITH EF-2. ACTUATOR SHALL BE LOCATED OUT OF THE AIRSTREAM.
L-5	OSA	30"	30"	3.27	6"	ALUMINUM	1/2" EXP. ALM.	RUSKIN ELF6375DX	(5) PROVIDE MOTORIZED 120V DAMPER AND INTERLOCK WITH DRYER. ACTUATOR SHALL BE LOCATED OUT OF THE AIRSTREAM. DAMPER TO FAIL OPEN. DAMPER SHALL BE OPEN WHEN FAN IS RUNNING.

ALTERNATE MANUFACTURERS: CESCO, L & D.

NOTES:
- PROVIDE 90° WEATHER HOOD.

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4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

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DRAWN BY: DM
CHECKED BY: JB

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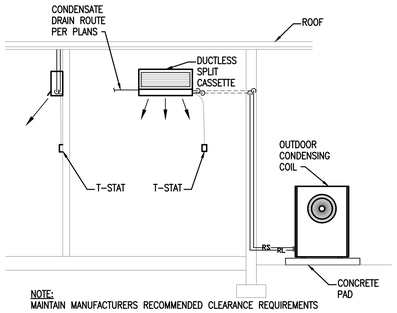
REGISTERED PROFESSIONAL ENGINEER — JARED H. MILLER — NO. 31885 — MECHANICAL — STATE OF CALIFORNIA
07-25-22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

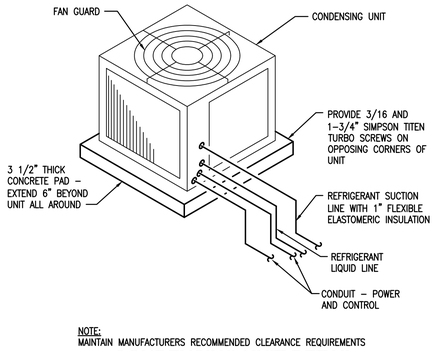
SHEET CONTENT:
HVAC - SCHEDULES

SHEET M3.00
OF ___ SHEETS
JOB NO. 1509-00



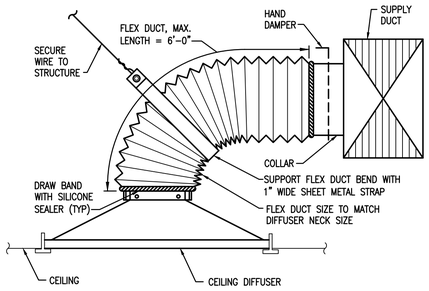
NOTE:
MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCE REQUIREMENTS

4 DUCTLESS SPLIT DETAIL
SCALE: NTS

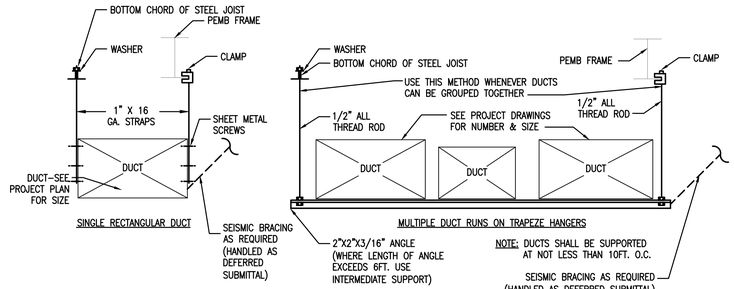


NOTE:
MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCE REQUIREMENTS

3 CONDENSING UNIT DETAIL
SCALE: NTS



2 TYPICAL DIFFUSER CONNECTION DETAIL
SCALE: NTS



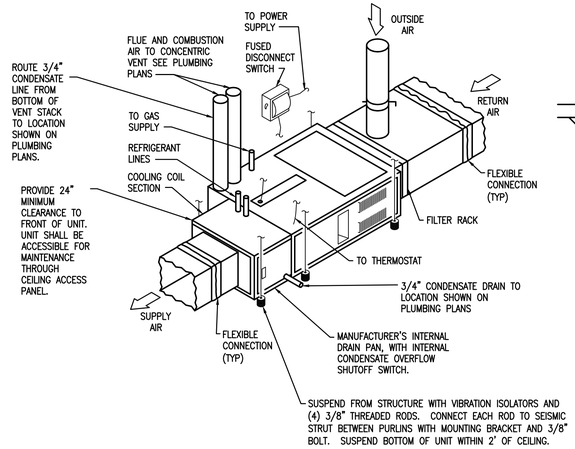
1 DUCT HANGER DETAIL
SCALE: NTS

Table 1 – Minimum Clearances to Combustible Materials for All Units

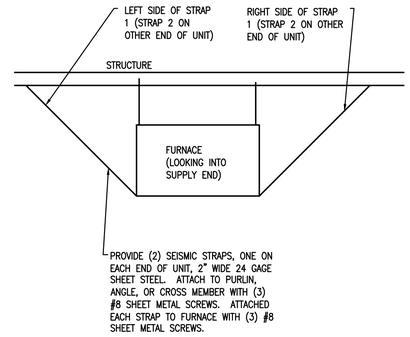
POSITION	CLEARANCE
REAR	0
FRONT (Combustion air openings in furnace and in structure)	1 in. (25 mm)
Required for service	*24 in. (610 mm)
All Sides of Supply Plenum	*1 in. (25 mm)
Sides	0
Vent	0
Top of Furnace	1 in. (25 mm)

*. Consult local building codes

12. Maintain a 1-in. (25 mm) clearance from combustible materials to supply air ductwork for a distance of 36 in. (914 mm) horizontally from the furnace. See NFPA 90B or local code for further requirements.
13. These furnaces SHALL NOT be installed directly on carpeting, combustible tile, or any other combustible material other than wood flooring. In downflow installations, factory accessory floor base MUST be used when installed on combustible materials and wood flooring. Special base is not required when this furnace is installed on manufacturer's Coil Assembly or when Coil Box is used. See Table 1 for clearance to combustible construction information.



6 HORIZONTAL GAS FURNACE WITH DX COOLING COIL
SCALE: NTS



5 NOT USED
SCALE: NTS

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HVAC - DETAILS

SHEET M4.00
OF ___ SHEETS
JOB NO. 1509-00

RUSKIN®

3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

INSTALLATION INSTRUCTIONS
1½ HOUR UL CLASSIFIED
CURTAIN TYPE (D)IBD2, (D)IBD2SS AND IBDT FIRE DAMPERS

APPLICATION

The fire damper models shown on this sheet are marked with a 1½ hour fire damper label and are approved for use in fire walls or masonry floors with ratings of less than 3 hours. Fire Dampers require a field-or factory-installed sleeve. Select a sleeve of sufficient length to permit mounting angles attachment. Static and Dynamic dampers must be installed with leading edge of the closed blades within the wall or floor.

STATIC FIRE DAMPERS – IBD models

Not for use in Dynamic (fans on) Systems.

MODEL IBD2 MAXIMUM SIZE
Single Section
Vertical Installation – 48"w x 30"h or 33"w x 72"h (1219 x 762 or 838 x 1829) or 36"w x 36"h (914 x 914).
Horizontal Installation – 30"w x 45½"h (762 x 1156) or 33"w x 38"h (838 x 965).
Multiple Section Assembly
Vertical Installation – 120"w x 72"h (3048 x 1829).
Horizontal Installation – 90"w x 91"h (2286 x 2311) or 114"w x 38"h (2896 x 965).

MODEL IBD2SS MAXIMUM SIZE
Single Section
Vertical Installation – 48"w x 30"h or 33"w x 72"h (1219 x 762 or 838 x 1829) or 36"w x 36"h (914 x 914).
Horizontal Installation – 30"w x 45½"h (762 x 1156) or 33"w x 38"h (838 x 965).
Multiple Section Assembly
Vertical Installation – 99"w x 72"h (2515 x 1829).
Horizontal Installation – 90"w x 91"h (2286 x 2311) or 114"w x 38"h (2896 x 965).

MODEL IBDT, IBDT1 and IBDT2 MAXIMUM SIZE
Single Section
Vertical Installation – 40"w x 48"h (1016 x 1219).
Horizontal Installation – 60"w x 12"h (1524 x 305).

DYNAMIC FIRE DAMPERS

Use in Dynamic (fans on) or Static (fans off) Systems

MODEL DIBD2 MAXIMUM SIZE
Single Section
Vertical Installation – 33"w x 36"h (838 x 914).
Horizontal Installation – 24"w x 24"h (610 x 610).
Multiple Section Assembly
Vertical Installation – 72"w x 48"h (1828 x 1219) or 48"w x 72"h (1219 x 1828) or 120"w x 24"h (3048 x 610).

MODEL DIBD2X MAXIMUM SIZE
Single Section
Vertical Installation – 18"w x 24"h (457 x 610).
Horizontal Installation – 18"w x 24"h (457 x 610) or 24"w x 18" h (610 x 457).
Multiple Section Assembly
Horizontal Installation – 36"w x 48"h (914 x 1219) or 48"w x 36"h (1219 x 914).

MODEL DIBD2SS MAXIMUM SIZE
Single Section
Vertical or Horizontal Installation – 24"w x 24"h (610 x 610).
Multiple Section Assembly
Vertical Installation – 72"w x 48"h (1828 x 1219) or 48"w x 72"h (1219 x 1828) or 90"w x 24"h (2286 x 610).

INSTALLATION SUPPLEMENTS

Refer to the appropriate Ruskin installation instruction supplements for additional information or special requirements:

- Optional Sealant of Dampers in Fire Rated Wall or Floor Openings
- Transfer Openings and Duct Terminations
- Optional FireStop Material
- Extension of Fire and Combination Fire and Smoke Damper Sleeves
- Fire and Combination Fire/Smoke Dampers Installation in Concrete Floor with Steel Deck
- Drivemate No. 14880 Breakaway Connection
- Flanged System Breakaway Connections
- Mullions for Dampers in Oversized Concrete Wall Openings

Notes:

1. Dimensions shown in parentheses ( ) indicate millimeters.
2. All multiple section dampers are constructed of equal single section sizes no greater than the maximum single section sizes indicated above.

CLASSIFIED UL — SEE COMPLETE MARKING ON PRODUCT

California State Fire Marshal Listing No. 3225-245:005

1. Opening Clearance
The opening in the wall or floor shall be larger than the damper/sleeve assembly to permit installation or expansion. For two angle installations the opening shall be a minimum of 1/8" per foot (3 per 305) larger than the overall size of the damper/sleeve assembly. The maximum opening size shall not exceed 1/4" per foot (3 per 305) plus 2" (51), nor shall the opening be less than 1/4" (6) larger than the damper/sleeve assembly. For one angle installations, the opening shall be a minimum of 1/4" (6) to a maximum of 1" (25) larger than the overall size of the damper/sleeve assembly. The opening may be as much as 2" (51) larger than the damper/sleeve assembly if a 16ga (1.6) mounting angles is utilized.

2. Fasteners and Multiple Section Assembly
Use No. 10 (M5) bolts or screws, 3/16" (5) rivets, tack welds or spot welds as depicted in figures 3 and 4 and spaced as follows when joining individual dampers to make multiple section damper assemblies or when fastening damper to the sleeve:

Vertical Mount (In wall)	
Galvanized steel dampers	12" (305) spacing
Stainless steel dampers	6" (152) spacing
Horizontal Mount (In floor)	
All dampers	6" (152) spacing

Multiple section horizontal mount dampers require a 14 gage thick x 4½" (2 x 114) wide steel reinforcing plate sandwiched between the damper frames with ½" (13) long welds staggered intermittently and spaced on maximum 6" (152) centers. The reinforcing plate must be the same material as the dampers. The length must be equal to the damper width of two or more adjoining damper sections. Reinforcing plates are not required for assemblies consisting of two dampers attached end-to-end or three dampers attached side-to-side as depicted in figure 5.

3. Damper Sleeve
Sleeve thickness must be equal to or thicker than the duct connected to it. Sleeve gage requirements are listed in the SMACNA Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems and in NFPA90A. If a breakaway style duct/sleeve connection is not used, the sleeve shall be a minimum of 16 gage (1.6) for dampers up to 36" (914) wide by 24" (610) high and 14 gage (1.9) for dampers exceeding 36" (914) wide by 24" (610) high. Damper sleeve shall not extend more than 6" (152) beyond the fire wall or partition unless damper is equipped with a factory installed access door. Sleeve may extend up to 16" (406) beyond the fire wall or partition on sides equipped with a factory installed access door. Sleeve shall terminate at both sides of wall within dimensions shown.

4. Damper Orientation
Use "Air Flow" and "Mount with Arrow Up" labels on Dynamic DIBD and DIBDX models for proper damper orientation. For Static IBD models use only "Mount With Arrow Up" label on damper for proper damper orientation. Static and Dynamic dampers must be installed with leading edge of the closed blades within the wall or floor.

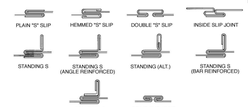
5. Mounting Angles
Mounting angles shall be a minimum of 1½" x 1½" x 20 gage steel (38 x 38 x 1.0). For openings in metal stud, wood stud walls or concrete/masonry walls and floors of sizes 90" x 49" or 49" x 90" (2286 x 1245 or 1245 x 2286) and less mounting angles are only required on one side of the wall or top side of the floor and must be attached to both the sleeve and the wall or floor. Mounting angles may be installed directly to the metal stud under the wall board on metal stud wall installations only. Larger openings require mounting angles on both sides of the partition and must be attached only to the sleeve. Mounting angles must overlap the partition a minimum of 1" (25). Do not weld or fasten angles together at corners of dampers. Ruskin fire dampers may be installed using Ruskin FAST angle for one angle installation or Ruskin PFMA for two angle installations.

a. Mounting Angle Fasteners
Sleeve: #10 bolts or screws, 3/16" (5) steel rivets or ½" (13) long welds.
Masonry/Wall or Floor: #10 self-tapping concrete screws.
Wood/Steel Stud Wall: #10 screws

b. Mounting Angle Fastener Spacing
For one angle installations the sleeve fasteners shall be spaced at 6" (152) o.c. and the wall or floor fasteners shall be spaced at 12" (305) o.c. with a minimum of 2 fasteners on each side, top and bottom. Screw fasteners used in metal stud must engage the metal stud a minimum of ½" (13). Screw fasteners used in wood stud must engage the wood stud a minimum of 3/4" (19). Screw fasteners used in masonry walls or floors must engage the wall a minimum of 1½" (38). For two angle installations the fasteners shall be spaced at 8" (203) o.c.

6. Duct/Sleeve Connections

a. Break-away Duct/Sleeve Connections
Rectangular ducts must use one or more of the connections depicted: below:



A maximum of two #10 sheet metal screws on each side and the bottom, located in the center of the slip pocket and penetrating both sides of the slip pocket may be used. Connections using these slip joints on the top and bottom with flat drive slips up to 20" (508) long on the sides may also be used.

b. Round and Oval Break-away Connections
Round and flat oval break-away connections must use either a 4" (102) wide drawband or #10 sheet metal screws spaced equally around the circumference of the duct as follows:

- Duct diameters 22" (559) and smaller – Maximum 3 screws.
- Duct diameters over 22" (559) and including 36" (914) – Maximum 5 screws.
- Duct diameters over 36" (914) and up to and including 191" (4851) total perimeter – Maximum 8 screws. For flat oval ducts, the diameter is considered the largest (major) dimension of the duct.

Note: When optional sealing of these joints is desired, the following sealants may be applied in accordance with the sealant manufacturer's instructions:

Design Polymerics – DP 1010	Precision – PA2084T
Hardcast, Inc. – Iron Grip 601	Eco Duct Seal 44-52

c. Flanged Break-away Style Duct Sleeve Connections.
Flanged connection systems manufactured by Ductmate, Nexus or Ward are approved break-away connections when installed as shown on the Flanged System Breakaway Connections Supplement.
TDC and TDF roll-formed flanged connections using 3/8" (10) steel bolts and nuts, and metal cleats, as tested by SMACNA, are approved break-away connections when installed as shown on the Flanged System Breakaway Connections Supplement.

d. Non-Break-away Duct/Sleeve Connections
If other duct sleeve connections are used, the sleeve shall be a minimum of 16 gage (1.6) for dampers up to 36" (914) wide x 24" (610) high and 14 gage (2.0) for dampers exceeding 36" (914) wide x 24" (610) high.

7. Installation and Maintenance
To ensure optimum operation and performance, the damper must be installed so it is square and free from racking. Each fire damper should be maintained and tested on a regular basis and in accordance with the latest editions of NFPA 90A and local codes. Care should be exercised to ensure that such tests are performed safely and do not cause system damage.

VERTICAL INSTALLATION

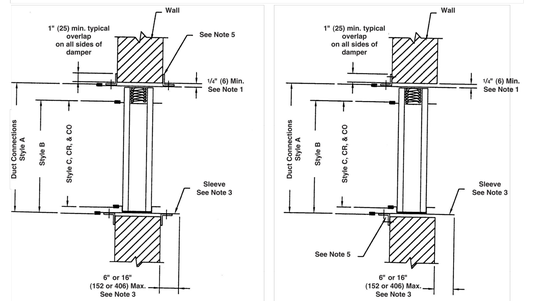


FIGURE 1

HORIZONTAL INSTALLATION

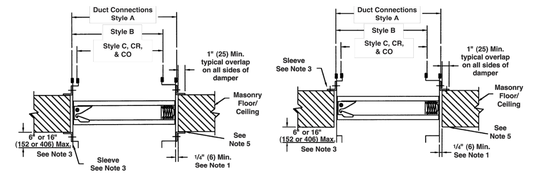


FIGURE 2

1 FIRE DAMPER DETAIL
SCALE: NTS

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DRAWN BY: DM
CHECKED BY: JB

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SHEET CONTENT:
HVAC - DETAILS

SHEET M4.01 OF ___ SHEETS

JOB NO. 1509-00

PLUMBING LEGEND

SD	STORM DRAIN
HWS	HEATING WATER SUPPLY LINE
HWR	HEATING WATER RETURN LINE
CHWS	CHILLED WATER SUPPLY LINE
CHWR	CHILLED WATER RETURN LINE
CS	CONDENSER WATER SUPPLY LINE
CR	CONDENSER WATER RETURN LINE
CD	CONDENSATE DRAIN LINE
D	DEMO
GW	GREASE WASTE
SS	SANITARY SEWER
V	VENT
RD	ROOF DRAIN LINE
OD	OVERFLOW DRAIN LINE
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER RECIRC
MPG	MEDIUM PRESSURE NATURAL GAS
NG	LOW PRESSURE NATURAL GAS
F	FIRE SPRINKLER LINE
CA	COMPRESSED AIR
MA	MEDICAL AIR
MV	MEDICAL VACUUM
	BALANCE DEVICE
	HOSE BIBB
	IN-LINE PUMP
	PIPE BREAK
	OVERFLOW DRAIN
	ROOF DRAIN
	GAS PRESSURE REGULATOR
XX-X	FIXTURE CALLOUT
X/X	DETAIL CALLOUT
	EQUIPMENT CALLOUT
	QUICK DISCONNECT
	PRESSURE REDUCING VALVE
	BALL VALVE
	REDUCER
	GATE VALVE
	GLOBE VALVE
	2 WAY CONTROL VALVE
	3 WAY CONTROL VALVE
	CHECK VALVE
	SOLENOID VALVE
	BALANCE VALVE
	GAS COCK
	BUTTERFLY VALVE
	OS & Y VALVE
	STRAINER
	SAFETY RELIEF VALVE
	VALVE IN VERTICAL
	FLOOR SINK
	FLOOR DRAIN
	GRADE CLEANOUT
	FLOOR CLEANOUT
	WALL CLEANOUT
	VENT THROUGH ROOF
	PIPE DOWN
	PIPE UP
	UNION
	CAP
	DOUBLE CHECK BACKFLOW PREVENTER
RP	REDUCED PRESSURE BACKFLOW PREVENTER
	POINT OF CONNECTION

ABBREVIATIONS & DESCRIPTIONS

AB.C.	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AV	ACID VENT
AW	ACID WASTE
BFF	BELOW FINISHED FLOOR
BG	BELOW GRADE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
C.I.N.H.	CAST IRON NO HUB
CO	CLEANOUT
CFF	CAP FOR FUTURE
CKV	CHECKVALVE
CW	COLD WATER
CX	CONNECT TO EXISTING
(D)	PIPE DROP
DN	PIPE DROP TO NEXT LEVEL
DTL.	DETAIL
(E)	EXISTING
F	FIRE SERVICE
FCO	FLOOR CLEANOUT
FND	FOUNDATION DRAIN
GCO	GRADE CLEANOUT
HW	HOT WATER
HWC	HOT WATER CIRCULATION
IDW	INDIRECT WASTE
I.E.	INVERT ELEVATION
IRR	IRRIGATION
KES	KITCHEN EQUIPMENT SUPPLIER
LP	LIQUID PROPANE GAS
LPG	LIQUEFIED PETROLEUM GAS
LWCO	LOW WATER CUTOFF
MAX.	MAXIMUM
MIN.	MINIMUM
NG	NATURAL GAS
(N)	NEW
N.O.	NORMALLY OPEN (VALVE)
N.C.	NORMALLY CLOSED (VALVE)
OH	OVER HEAD
POC	POINT OF CONNECTION
(R)	PIPE RISE
RIO	ROUGH-IN ONLY
SHT.	SHEET
SCW	SOFT COLD WATER
SOC	SHUT OFF COCK (GAS)
SOV	SHUT OFF VALVE
TPL	TRAP PRIMER LINE
UG	UNDERGROUND
UP	PIPE RISE TO NEXT LEVEL
US	UNDER SLAB
UTR	UP THRU ROOF
V	VENT
VA	VALVE
VTR	VENT THRU ROOF
W	WASTE
WCO	WALL CLEANOUT

SHEET INDEX

GENERAL PLUMBING NOTES

(RE: ALL PLUMBING SHEETS)

G1 COORDINATE LOCATION OF VENTS THROUGH WALLS TO MAINTAIN 10' CLEARANCE FROM OUTSIDE AIR INTAKES.

G2 SITE UTILITIES: THE MECHANICAL DOCUMENTS INDICATE CONNECTION LOCATION OF VARIOUS BUILDING SERVICES. COORDINATE WORK WITH THE SITE UTILITIES CONTRACTOR TO ENSURE PROPER INVERT ELEVATION, PIPE SLOPE GRADIENT, PIPE SIZE AND SEPARATION WITHIN TRENCH WORK. NOTIFY ARCHITECT OR ENGINEER OF ANY DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS.

G3 CONTRACTOR SHALL IDENTIFY ALL SERVICEABLE ITEMS (VALVES, CLEANOUTS, COILS, ETC.) SO THAT THE CEILING SUBCONTRACTOR MAY KNOW WHERE TO INSTALL ACCESS-TYPE PANELS SHOULD A LIFT-UP TYPE CEILING NOT BE INSTALLED. THIS CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR HIS WORK UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. ARCHITECT SHALL APPROVE LOCATIONS OF ACCESS PANELS PRIOR TO INSTALLATION.

G4 PROVIDE ALL NECESSARY FLASHING, SEALING, ETC. TO MAINTAIN THE WATERPROOF INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF ITEMS AS REQUIRED BY THIS SCOPE OF WORK.

G5 ALL PENETRATIONS MADE THROUGH RATED ASSEMBLIES TO ACCOMMODATE WORK OF THIS SECTION MUST BE SEALED TO MAINTAIN THE RATING OF SUCH ASSEMBLY BY A U.L. RECOGNIZED SEALING METHOD.

G6 PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF THIS WORK. COORDINATE ALL BLOCKING, SUPPORT, ETC. NECESSARY FOR THE INSTALLATION OF THIS WORK WITH THE GENERAL CONTRACTOR.

G7 THE RESPECTIVE SUB-CONTRACTOR, AT HIS EXPENSE, SHALL OBTAIN ALL PERMITS AND FEES REQUIRED FOR THIS SCOPE OF WORK ON THIS PROJECT. THE SUB-CONTRACTORS SHALL ALSO SCHEDULE ALL REQUIRED INSPECTIONS AND OBTAIN CERTIFICATES FOR HIS WORK, AT HIS EXPENSE.

G8 CONTRACTOR HAS SOLE RESPONSIBILITY TO COORDINATE ANY SUBSTITUTIONS WITH ALL OTHER DISCIPLINES. EQUIPMENT OF GREATER POWER, DIMENSIONS, CAPACITIES, AND RATINGS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT HAS BEEN SUBMITTED FOR REVIEW, IN WRITING AND CONNECTING MECHANICAL AND ELECTRICAL SERVICES, CIRCUIT BREAKERS, CONDUIT, MOTORS, BASES, AND EQUIPMENT SPACES ARE ADJUSTED APPROPRIATELY. NO ADDITIONAL COSTS WILL BE APPROVED FOR THESE INCREASES, IF LARGER EQUIPMENT IS PROPOSED. IF MINIMUM ENERGY RATINGS OR EFFICIENCIES OF THE EQUIPMENT ARE SPECIFIED, THE EQUIPMENT MUST MEET THE DESIGN REQUIREMENTS AND COMMISSIONING REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR SUBSTITUTED EQUIPMENT MEETING THE INTENT OF THE ORIGINAL DESIGNED EQUIPMENT IN ALL ASPECTS.

G9 PROVIDE A COMMISSIONING PLAN DEVELOPED BY A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY AS/WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

PROJECT CODES:

COMPLY WITH THE 2019 CALIFORNIA PLUMBING CODE, THE 2019 CALIFORNIA MECHANICAL CODE, THE 2019 CALIFORNIA BUILDING CODE, THE 2019 CALIFORNIA FIRE CODE, 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, AND THE 2019 CALIFORNIA ENERGY CODE. COMPLY WITH DIVISION 16 AND ALL CODES REFERENCED THEREIN FOR ANY AND ALL ELECTRICAL WORK.

SEISMIC DESIGN NOTE:

PROJECT IS LOCATED IN A SEISMIC CATEGORY D, RISK CATEGORY II ZONE. ALL EQUIPMENT, DUCTWORK, PIPING AND SUPPORTS SHALL BE ASSIGNED AN IMPORTANCE FACTOR OF 1.0. INSTALLATION AND DESIGN OF ALL EQUIPMENT, DUCTWORK, PIPING AND SUPPORTS SHALL COMPLY WITH THE REQUIREMENTS OF THE ASCE7-16 AND 2019 CBC AS IT APPLIES TO NON STRUCTURAL COMPONENTS. SEISMIC DESIGN REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND REFRIGERATION SYSTEMS SHALL BE HANDLED AS A DEFERRED SUBMITTAL

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DRAWN BY: DM

CHECKED BY: JB

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Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER
JARED H. MILLER
NO. 31885
MECHANICAL
STATE OF CALIFORNIA

07-25-22

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:

PLUMBING - COVER SHEET

SHEET P0.00

OF ___ SHEETS

JOB NO. 1509-00

WASTE CALCULATIONS (Based on 2019 CPC Code, Table 702.1)

Seeley Fire Station and Cooling Center		CODE FIXTURE UNITS PER FIXTURE					
WASTE CALC		# OF FIXTURES	MIN. TRAP & TRAP ARM SIZE	PRIVATE	PUBLIC	ASSEMBLY	TOTAL FIXTURE UNITS
FIXTURE							
drinking fountain or watercooler	private	0.0	1-1/4"	0.5			0.0
	public	2.0	1-1/4"		0.5		1.0
	assembly	0.0	1-1/4"			1.0	0.0
floor drain	public	2.0	2"		2.0		4.0
lavatory, single	private	0.0	1-1/4"	1.0			0.0
	public	3.0	1-1/4"		1.0		3.0
shower, single-head trap	private	0.0	2"	2.0			0.0
	public	2.0	2"		2.0		4.0
sink, kitchen, domestic, with or without disposer and/or dishwasher	private	0.0	1-1/2"	2.0			0.0
	public	1.0	1-1/2"		2.0		2.0
sink, service or mop basin	public	1.0	3"		3.0		3.0
water closet, 1.6 gpf gravity tank	private	0.0	3"	3.0			0.0
	public	3.0	3"		4.0		12.0
	assembly	0.0	3"			6.0	0.0
						CALCULATED FIXTURE UNITS	29.0
						ADDITIONAL FIXTURE UNITS	90.0
						TOTAL FIXTURE UNITS	119.0
						EXITING WASTE SIZE	4"

WASTE MAIN SIZES (1/4" PER FOOT)

max units SIZE	2"	3"	4"	6"	8"
vertical	16	48	256	1380	3600
horizontal	8	35	216	720	2640
max length					
vertical	85'	212'	300'	510'	750'
horizontal	unlimited	unlimited	unlimited	unlimited	unlimited

WASTE MAIN SIZES (1/8" PER FOOT)

max units SIZE	2" *	3" *	4"	6"	8"
vertical	16	48	256	1380	3600
horizontal	8	35	172.8	576	2112
max length					
vertical	85'	212'	300'	510'	750'
horizontal	unlimited	unlimited	unlimited	unlimited	unlimited

* Pipe sizes smaller than 4" sloping less than 1/4" per foot require approval from local authority having jurisdiction.

WATER CALCULATIONS (Based on 2019 CPC Code, Table A 103.1)

Seeley Fire Station & Cooling Center		CODE FIXTURE UNITS PER FIXTURE					
WATER CALC		# OF FIXTURES	MIN. FIXTURE BRANCH PIPE SIZE	PRIVATE	PUBLIC	ASSEMBLY	TOTAL FIXTURE UNITS
FIXTURE							
dishwasher, domestic	private	0.0	1/2"	1.5			0.0
	public	1.0			1.5		1.5
drinking fountain or water cooler	public	0.0	1/2"	0.5			0.0
	public	2.0			0.5		1.0
	assembly	0.0				0.75	0.0
hose bibb	private	0.0	1/2"	2.5			0.0
	public	1.0			2.5		2.5
additional hose bibb	private	0.0	1/2"	1.0			0.0
	public	2.0			1.0		2.0
lavatory	private	0.0	1/2"	1.0			0.0
	public	3.0			1.0		3.0
	assembly	0.0				1.0	0.0
sinks, kitchen, domestic	private	0.0	1/2"	1.5			0.0
	public	1.0			1.5		1.5
sinks, service or mop basin	private	0.0	1/2"	1.5			0.0
	public	1.0			3.0		3.0
shower, per head	private	0.0	1/2"	2.0			0.0
	public	2.0			2.0		4.0
water closet, 1.6 gpf gravity tank	private	0.0	1/2"	2.5			0.0
	public	3.0			2.5		7.5
	assembly	0.0				3.5	0.0
						TOTAL FIXTURE UNITS	26.0
						GPM	20
						ADD. GPM	45
						TOTAL GPM	65
						INCOMING LINE SIZE	2"

REQ. STREET PRESSURE	60	PSI
LOSS THROUGH METER	5	PSI
LOSS THROUGH BACKFLOW	10	PSI
PRESSURE AT BUILDING	45	PSI
PRESSURE AFTER ANY REQUIRED BOOSTING	45	PSI
HIGHEST FIX IN FT 7	3	PSI
PIPE LENGTH	170	L.F.
FITTING LOSS	15	%
PIPE LENGTH WITH FITTING LOSS	196	EQ. FT.
LOSS THROUGH WATER SOFTENER	0	PSI
ADDITIONAL LOSS	0	PSI
REQUIRED PRESSURE FOR FARTHEST FIXTURE	20	PSI
REMAINING PRESSURE	22	PSI
PSI / 100 FT	11.25	

Cold Water Sizing

<7 psi/100 ft Head Loss, <8 fps Velocity

Type L Copper, 50 deg. F Water	Max Fixture Units (Flush Tank)	Max GPM	Head Loss (psi/100 ft)	Velocity (fps)
1/2"	3	3	7.28	4.13
3/4"	10	8	7.17	5.30
1"	23	16	6.84	6.22
1-1/4"	49	28	6.77	7.15
1-1/2"	103	44	6.60	7.94
2"	260	77	4.77	7.98
2-1/2"	470	118	3.63	7.93
3"	743	169	2.95	7.96
4"	1744	298	2.11	7.98
5"	3291	465	1.62	7.99
6"	5092	668	1.30	7.99

Hot Water/Hot Water Recirculation Sizing

<7 psi/100 ft Head Loss, <5 fps Velocity

Type L Copper, 70 deg. F Water	Max Fixture Units (Flush Tank)	Max GPM	Head Loss (psi/100 ft)	Velocity (fps)
1/2"	3	3	6.77	4.13
3/4"	9	7.5	5.99	4.97
1"	17	12.5	4.14	4.86
1-1/4"	28	19	3.18	4.85
1-1/2"	46	27	2.59	4.87
2"	119	48	1.92	4.98
2-1/2"	245	74	1.48	4.97
3"	406	106	1.20	4.99
4"	840	186	0.85	4.98
5"	1668	290	0.65	4.98
6"	2832	417	0.52	4.99

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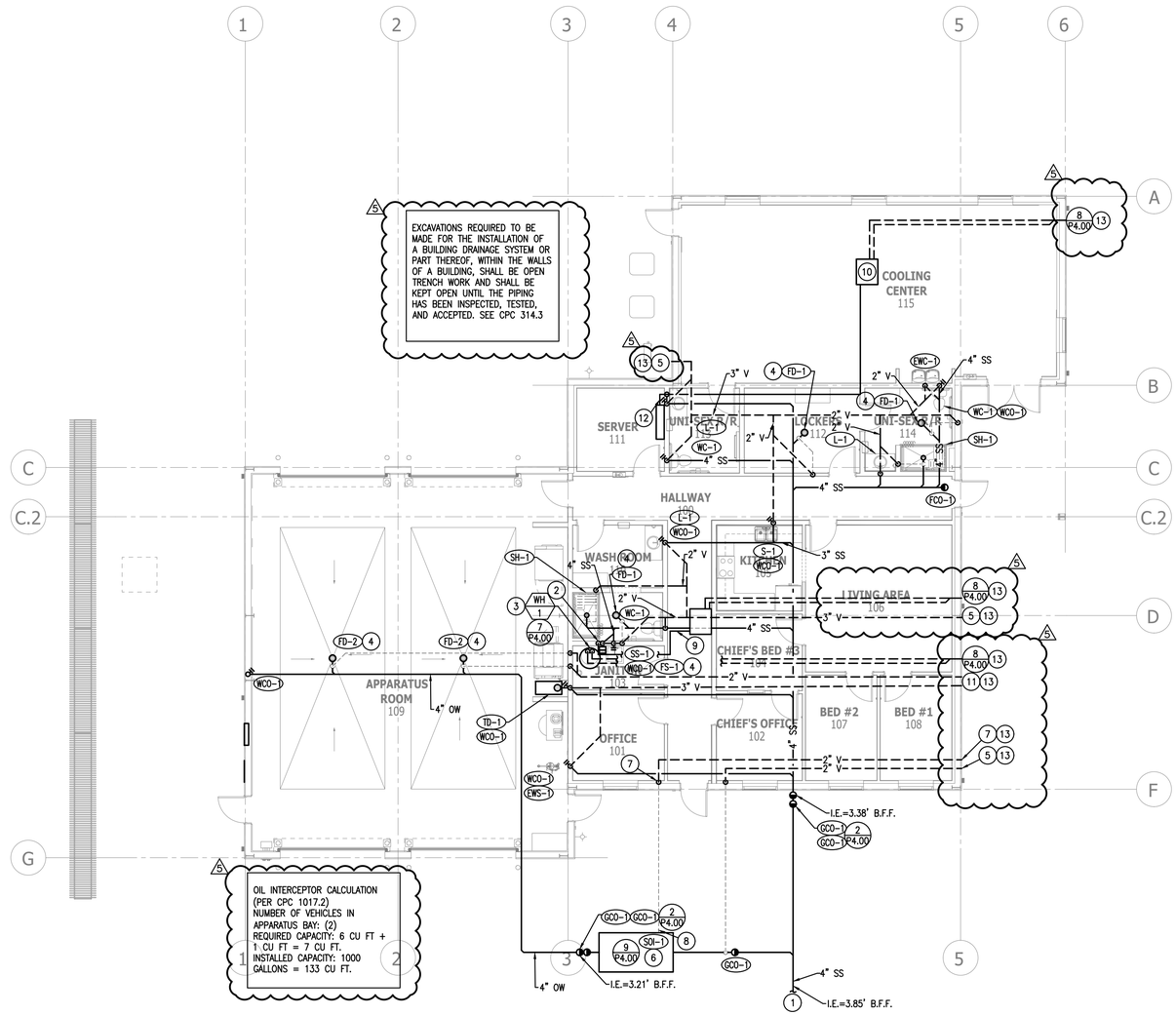
REGISTERED PROFESSIONAL ENGINEER
JARED H. MILLER
NO. 31885
MECHANICAL
STATE OF CALIFORNIA
07-25-22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
PLUMBING - CALCULATIONS

SHEET P0.01
OF ___ SHEETS
JOB NO. 1509-00



1 PLUMBING - WASTE & VENT PLAN

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

NORTH

GENERAL NOTES:

G1 CERTAIN EQUIPMENT REQUIREMENTS NOTED ON THESE DRAWINGS WERE DERIVED FROM OWNER-FURNISHED COORDINATION DRAWINGS. CONTRACTOR TO VERIFY ACTUAL OWNER-FURNISHED EQUIPMENT CONNECTION REQUIREMENTS AND SCOPE OF WORK. CONTRACTOR TO PROVIDE INSTALLATION OF ALL OWNER SUPPLIED PLUMBING FIXTURES.

G2 CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SANITARY, DOMESTIC, AND GAS LINES. VERIFY AVAILABLE INVERT DEPTHS PRIOR TO BEGINNING WORK.

G3 SEE DETAIL 1, SHEET P4.00 FOR PIPE HANGER DETAIL.

G4 SEE DETAIL 2, SHEET P4.00 FOR CLEANOUT DETAIL.

G5 WHERE PIPING PASSES THROUGH WALLS THAT ARE FIRE RATED, FIRE CAULK PENETRATIONS TO MAINTAIN RATING. PROVIDE FIRE RATED CLEANOUTS AS REQUIRED.

G6 SOME BELOW SLAB PIPING MAY REQUIRE COORDINATION WITH STRUCTURAL FOOTINGS; COORDINATE WITH GENERAL CONTRACTOR BEFORE FOOTINGS ARE POURED. ANY ADDITIONAL WORK REQUIRED TO ROUTE PIPING THROUGH/AROUND FOOTINGS TO BE COVERED BY PLUMBING CONTRACTOR IN BID.

G7 ANY REQUIRED SEISMIC RESTRAINTS FOR SUSPENDED DUCTWORK/EQUIPMENT/PIPING SHALL DESIGNED AS A DEFERRED SUBMITTAL BY MECHANICAL CONTRACTOR.

5 G8 SLOPE ALL HORIZONTAL SANITARY SEWER PIPING AT 1/4" PER FOOT (2%).

G9 COORDINATE PLUMBING LOCATIONS WITH ARCHITECTURAL SHEET A3.20.

KEYED NOTES: (1)

1. EXTEND 5'-0" FROM BUILDING AND CONNECT TO SITE UTILITIES.
2. ROUTE CONDENSATE DOWN IN WALL AND TERMINATE AT FLOOR SINK WITH AIR GAP. SEE DETAIL 3, SHEET P4.00.
3. TERMINATE T&P VALVE AND CONDENSATE DRAIN FROM WATER HEATER EXHAUST PIPING AT FLOOR SINK WITH AIR GAP. SEE DETAIL 3, SHEET P4.00.
4. PROVIDE TRAP PRIMER (TP-1) FOR FLOOR DRAIN/SINK. SEE DETAIL 4, SHEET P4.00.
5. ROUTE 4" V THROUGH SIDEWALL. ROUTE HORIZONTALLY OUT PAST ROOF EAVE, AND THEN UP UNTIL ABOVE ROOF LEVEL. SUPPORT FROM WALLS/ROOF. PROVIDE RODENT SCREEN.
6. PROVIDE 1,000 GALLON PRECAST CONCRETE SAND OIL INTERCEPTOR. COORDINATE LOCATION WITH GENERAL CONTRACTOR.

5 7. ROUTE 3" V SERVING SAND OIL INTERCEPTOR THROUGH SIDEWALL. TERMINATE AT LEAST 10' ABOVE GRADE. ROUTE HORIZONTALLY OUT PAST ROOF EAVE, AND THEN UP UNTIL ABOVE ROOF LEVEL. SUPPORT FROM WALLS/ROOF. PROVIDE RODENT SCREEN.

8. ROUTE VENT TO OUTLET OF SAND OIL INTERCEPTOR.
9. ROUTE 3/4" CONDENSATE TO FLOOR SINK. PROVIDE CONDENSATE PUMP.
10. ROUTE 3/4" CONDENSATE TO TAILPIECE OF LAV. PROVIDE CONDENSATE PUMP.
11. ROUTE 2" V THROUGH SIDEWALL. ROUTE HORIZONTALLY OUT PAST ROOF EAVE, AND THEN UP UNTIL ABOVE ROOF LEVEL. SUPPORT FROM WALLS/ROOF. PROVIDE RODENT SCREEN.

5 12. ROUTE 3/4" CONDENSATE TO TAILPIECE OF LAV.

13. MAINTAIN 10' CLEARANCE TO ANY BUILDING OPENING.

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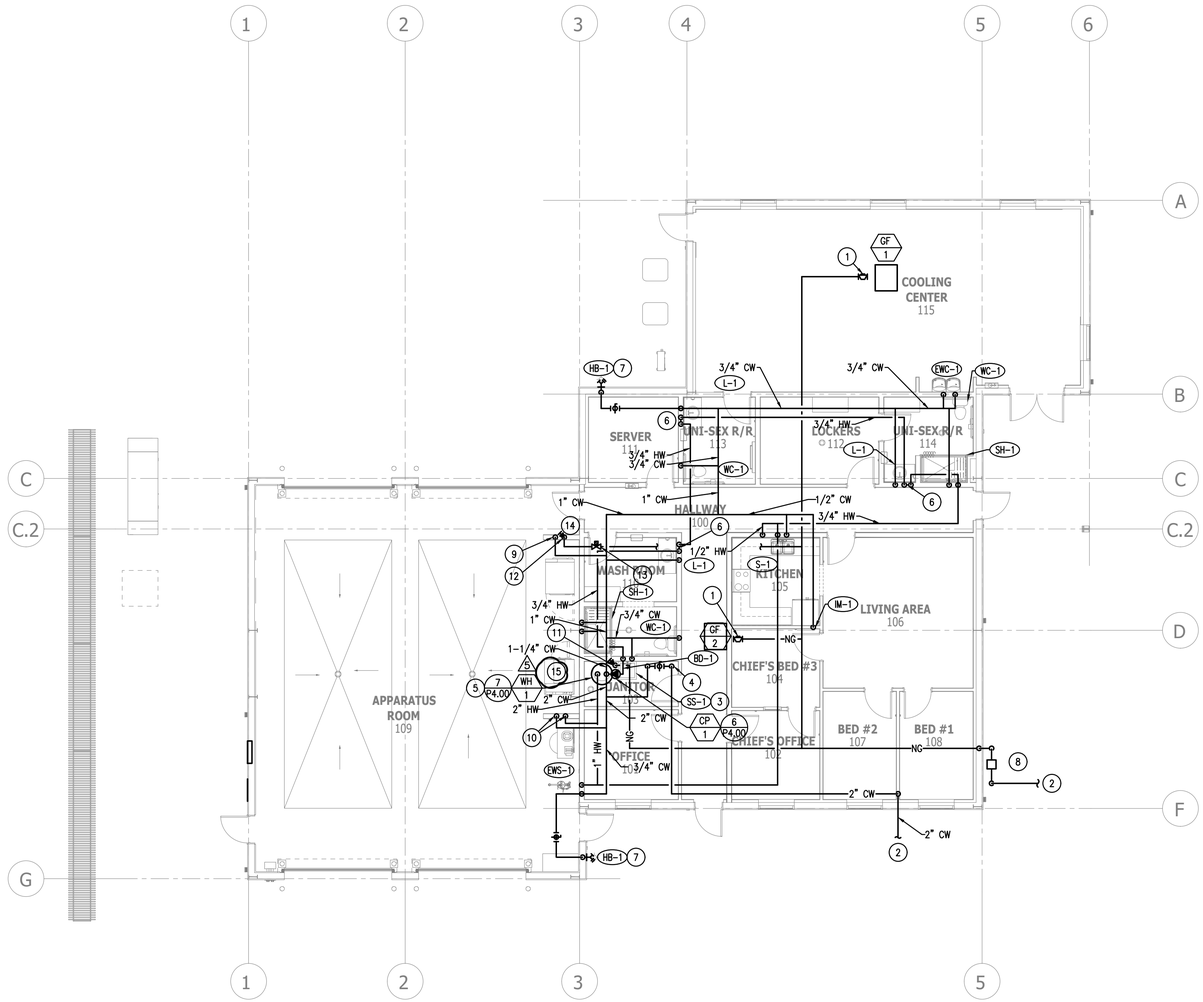
REGISTERED PROFESSIONAL ENGINEER JARED H. MILLER NO. 31885 MECHANICAL STATE OF CALIFORNIA
07-25-22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
PLUMBING - WASTE & VENT PLAN

SHEET P1.11
OF ___ SHEETS
JOB NO. 1509-00



1 **WATER & GAS PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

G1 CERTAIN EQUIPMENT REQUIREMENTS NOTED ON THESE DRAWINGS WERE DERIVED FROM OWNER-FURNISHED COORDINATION DRAWINGS. CONTRACTOR TO VERIFY ACTUAL OWNER-FURNISHED EQUIPMENT CONNECTION REQUIREMENTS AND SCOPE OF WORK. CONTRACTOR TO PROVIDE INSTALLATION OF ALL OWNER SUPPLIED PLUMBING FIXTURES.

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G4 SEE DETAIL 2, SHEET P4.00 FOR CLEANOUT DETAIL.

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G6 SOME BELOW SLAB PIPING MAY REQUIRE COORDINATION WITH STRUCTURAL FOOTINGS; COORDINATE WITH GENERAL CONTRACTOR BEFORE FOOTINGS ARE POURED. ANY ADDITIONAL WORK REQUIRED TO ROUTE PIPING THROUGH/AROUND FOOTINGS TO BE COVERED BY PLUMBING CONTRACTOR IN BID.

G7 ANY REQUIRED SEISMIC RESTRAINTS FOR SUSPENDED DUCTWORK/EQUIPMENT/PIPING SHALL DESIGNED AS A DEFERRED SUBMITTAL BY MECHANICAL CONTRACTOR.

G8 SLOPE ALL BELOW GRADE SANITARY SEWER PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.

G9 COORDINATE PLUMBING LOCATIONS WITH ARCHITECTURAL SHEET A3.20.

KEYED NOTES: (1)

1. NG TO MECHANICAL EQUIPMENT. CONNECTION LOCATION SHOWN FOR CLARITY, CONNECT TO EQUIPMENT PER MANUFACTURER'S DRAWINGS. TERMINATE WITH DIRT LEG, GAS COCK, AND FLEXIBLE STEEL HOSE. SEE DETAIL 5, SHEET P4.00. SEE DETAIL 1, SHEET P3.00 FOR SIZING.
2. EXTEND 5'-0" FROM BUILDING AND CONNECT TO SITE UTILITIES.
3. PROVIDE CHECK VALVES IN ACCESSIBLE LOCATION TO PREVENT CROSS CONTAMINATION.
4. PROVIDE MAIN BUILDING SHUTOFF IN ACCESSIBLE LOCATION FOR INCOMING CW LINE.
5. CONNECT 2" CW AND 2" HW TO WATER HEATER.
6. ROUTE HW LOOP DOWN IN WALL WITHIN 2' OF FIXTURE.
7. PROVIDE 3/4" CW TO HOSE BIB. LOCATE ISOLATION VALVE IN ACCESSIBLE LOCATION WITH ACCESS PANEL AS REQUIRED.
8. GAS METER BY LOCAL GAS UTILITY, SEE GAS SCHEMATIC DETAIL 1, SHEET P3.00 FOR SIZING.
9. ROUTE 3/4" CW DOWN TO DRYER FOR CONNECTION.
10. ROUTE 2" CW AND 2" HW DOWN FOR WASHER CONNECTION. SPLIT INTO (2) 1" CW AND (2) 1" HW CONNECTIONS. PROVIDE AIR CUSHION RISERS AND WATER FAUCETS PRIOR TO CONNECTION OF UNIT.
11. NG TO WH. CONNECTION LOCATION SHOWN FOR CLARITY, CONNECT TO EQUIPMENT PER MANUFACTURER'S DRAWINGS. TERMINATE WITH DIRT LEG, GAS COCK, AND FLEXIBLE STEEL HOSE. SEE DETAIL 5, SHEET P4.00. SEE DETAIL 1, SHEET P3.00 FOR SIZING.
12. NG TO DRYER. CONNECTION LOCATION SHOWN FOR CLARITY, CONNECT TO EQUIPMENT PER MANUFACTURER'S DRAWINGS. TERMINATE WITH DIRT LEG, GAS COCK, AND FLEXIBLE STEEL HOSE. SEE DETAIL 5, SHEET P4.00. SEE DETAIL 1, SHEET P3.00 FOR SIZING.
13. ACCESSIBLE ABOVE CEILING NG SOLENOID VALVE SHALL BE INTERLOCKED WITH EMERGENCY SHUT NG SHUTOFF SWITCH.
14. EMERGENCY NG SHUTOFF SWITCH WITH TRANSPARENT COVER SHALL BE WALL MOUNTED AND INTERLOCKED WITH ABOVE CEILING NG SOLENOID VALVE.
15. OWNER PROVIDED, CONTRACTOR INSTALLED UNIMAC UWT065D4 WASHER. INSTALL PER ALL MANUFACTURER'S INSTALLATION REQUIREMENTS, REFER TO THE MANUFACTURER'S INSTALLATION DOCUMENT.

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REGISTERED PROFESSIONAL ENGINEER — JARED H. MILLER — NO. 31885 — MECHANICAL — STATE OF CALIFORNIA

07-25-22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
PLUMBING - WATER & GAS PLAN

SHEET P2.11
OF ___ SHEETS
JOB NO. 1509-00

GAS FIRED WATER HEATER SCHEDULE

WH 1

EQUIPMENT NO.	MANUFACTURER & MODEL	TYPE	CAPACITY (GAL)	RECOVERY (GAL/HOUR)	NAT. GAS INPUT (MBH)	THERM. EFF. (%)	INTAKE/ EXHAUST SIZE	ELECTRICAL VOLT.-PH.-CY.	OPERATING WEIGHT (LBS)	OPTIONS-ACCESSORIES
WH-1	BRADFORD WHITE EF-100T-250E-3N	SEALED COMBUSTION	100	290 @ 100° RISE	250.0	96.0	SEE NOTES	115-1-60	1800	PROVIDE COMPLETE WATER HEATER FOR SEALED COMBUSTION OPERATION INCLUDING PIPING AND MANUFACTURER'S CONCENTRIC VENT TERMINATION KIT. PROVIDE W/ 4.4 GALLON, AMTROL MODEL ST-12 EXPANSION TANK. CONDENSATE NEUTRALIZATION KIT.

ALTERNATE MANUFACTURERS: BRADFORD WHITE, AO SMITH, RHEEM/RUUD, STATE, LOCHINVAR

NOTES

- PROVIDE WITH 3 YEAR TANK WARRANTY AND 1 YEAR PARTS WARRANTY.
- SIZE INTAKE/EXHAUST PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE FLOOR SINK, SIOUX CHIEF 861--PDW2T (12"x12"x6" DEEP) ADJACENT TO WATER HEATER FOR T&P AND EXHAUST CONDENSATE PER MANUFACTURER'S RECOMMENDATIONS.

PUMP SCHEDULE

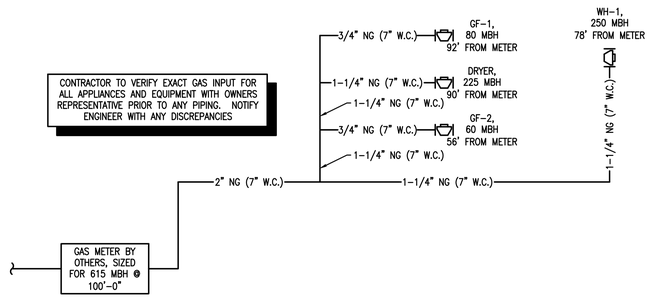
P 1

EQUIPMENT NO.	AREA SERVED	PUMP LOCATION	STYLE/ CONST.	FLUID TYPE	RPM	FLOW RATE (GPM)	HEAD (FT)	INLET SIZE (INCH)	DISCH SIZE (INCH)	IMPELLER DIA (INCH)	ELECTRIC WATTS	ELECTRIC VOLT.-PH.-CY.	WEIGHT (LBS)	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
CP-1	HW RECIRC	JANITOR'S CLOSET	CENTRIFUGAL/ BRONZE	HOT WATER	-	1	11	3/4	3/4	-	40	120-1-60	4	TACO 006E3LC	MOTOR SHALL BE PERMANENTLY LUBRICATED, RESILIENT MOUNTED, FURNISH WITH CHECK VALVE, AQUASTAT AND TIMER.

ALTERNATE MANUFACTURERS: GRUNDFOS, B & G

NOTES

PROVIDE ALL ANCILLARY COMPONENTS REQUIRED FOR A FULL INSTALLATION.



1 **GAS SCHEMATIC**
SCALE: NTS

5

POTABLE HOT WATER PIPING INSULATION SCHEDULE

PIPE SIZE	INSULATION LEVEL
1/2"	1/2"
3/4"	1"
1" - 1-1/2"	1-1/2"
2" AND LARGER	2"

PLUMBING FIXTURE SCHEDULE

WC-1

FIXTURE NO.	DESCRIPTION	MANUFACTURER & CAT. NO.	SIZE	PIPING CONNECTIONS TRAP	WASTE	VENT	C.W.	H.W.	FEATURES & ACCESSORIES
BD-1	AUTOMATIC BALANCE VALVE	ARMSTRONG CBC050VTCR-LF	LINE SIZE (SEE PLANS)	--	--	--	LINE SIZE	--	INLINE STAINLESS STEEL BALANCING VALVE, FACTORY SET TO AUTOMATICALLY LIMIT THE FLOW TO 1 GPM. INSTALL WITH ISOLATION VALVES.
EWC-1	DRINKING FOUNTAIN (ADA COMPLIANT HI-LO) W/CANE GUARD	ELKAY EZSTL8WSK W/PUSH BUTTON ACTIVATION	18-3/8"x19" EACH	1-1/4"x 1-1/2"	1-1/2"	1-1/2"	1/2"	--	BARRIER FREE BI-LEVEL ELECTRIC WATER COOLER, HIGH POLISHED STAINLESS STEEL DRINKING FOUNTAINS WITH BUBBLER HEADS, PUSH BUTTONS, WASTE STRAINERS, MATCHING BACK PANEL, ACCESS PANEL, VANDAL RESISTANT BOTTOM PLATES, AND COMPLETE MOUNTING SYSTEM. PROVIDE WITH EZH2O BOTTLE FILLING STATION, 115/1/60, 8.9 FLA, 370 RATED WATTS, DELIVERS 8.0 GAL CHILLED WATER PER HOUR. MOUNT PER ADA REQUIREMENTS AND PROVIDE CANE GUARD. INSTALL PER ALL CALIFORNIA T24 REQUIREMENTS, INCLUDING BUBBLER HEIGHT. 1
EWS-1	SHOWER AND EYE FACE WASH	ACORN MODEL S1320	--	1-1/4"	2"	1-1/4"	1"	1"	PROVIDE WITH THERMOSTATIC MIXING VALVE AND ALL ACCESSORIES PER MANUFACTURER'S RECOMMENDATION.
FCO-1	FLOOR CLEANOUT (FINISHED FLOOR)	JAY R SMITH SERIES 4020S	LINE SIZE (SEE PLANS)	--	--	--	--	--	ROUND, MEDIUM DUTY FINISHED FLOOR CLEANOUT. PROVIDE WITH ROUND ADJUSTABLE NICKEL BRONZE TOP, GASKET SEAL, & TAPERED ABS PLUG. 2" MINIMUM.
FD-1	FLOOR DRAIN	JAY R SMITH 2005Y--A05-NB	--	2"	2"	2"	TRAP PRIMER	--	ROUND NICKEL BRONZE STRAINER; TRAP PRIMER CONNECTION.
FD-2	HEAVY FLOOR DRAIN	JAY R SMITH 2340	--	4"	4"	2"	-	--	CAST IRON BODY, DUCTILE IRON HEAVY DUTY GRATE.
FS-1	FLOOR SINK	SIOUX CHIEF 861--PDW2T	12"x12"x6" DEEP	2"/3"	2"/3"	2"	TRAP PRIMER	--	11-3/16"x11-3/16"x6-3/8" DEEP. SCH. 40 PVC FLOOR SINK. PROVIDE WITH PVC DOME STRAINER, STAINLESS STEEL MESH SCREEN, HALF GRATE COVER, TRAP PRIMER CONNECTION. 2" MINIMUM.
GCO-1	GRADE CLEAN OUT	JAY R. SMITH 4220S	LINE SIZE (SEE PLANS)	--	--	--	--	--	CAST IRON TOP, ABS PLUG WITH GASKET SEAL. SIZE TO MATCH WASTE PIPING.
HB-1	HOSE BIBB (FREEZE-PROOF)	WOODFORD 65	--	--	--	--	3/4"	--	ANTI-SIPHON, AUTOMATIC DRAINING WITH ONE REMOVABLE OPERATING KEY TO BE FURNISHED WITH EACH HYDRANT. FLUSH MOUNT WITH RECESSED BOX AT 18" ABOVE FINISHED GRADE.
IM-1	ICE MAKER HOOK-UP (WALL BOX)	WATER-TITE 9700	5.75"x4.875"x 3.50" D	--	--	--	1/2"	--	FLUSH WALL MOUNT. PROVIDE WITH 1/4 TURN, LEVER HANDLE, CHROME BALL VALVES.
L-1	LAVATORY-PUBLIC (COUNTER MOUNT, ADA COMPLIANT)	KOHLER K-2196-4 WITH MOEN 8886 TWO-HANDLE METERING FAUCET AND CFG 40104 TEMPERATURE LIMIT STOP, 0.2 GPC MAX	21"x17"	1-1/2"	1-1/4" x 1-1/2"	1-1/2"	1/2"	1/2"	VITREOUS CHINA, OVAL COUNTERTOP; CYCLE TIME TO BE ADJUSTED TO NOT EXCEED 0.2 GPC, GRID STRAINER. 1/2" x 3/8" ANGLE STOPS WITH OVAL HANDLE AND FLEXIBLE RISERS; 17 GAUGE TRAP. OFFSET GRID DRAIN ASSEMBLY FOR WHEELCHAIR; PROVIDE WITH CANE GUARD.
S-1	SINK (DOUBLE COMPARTMENT, SELF RIM COUNTERTOP, ADA COMPLIANT)	MAINLINE MLDXR33223 W/MAINLINE 134E-CP WITH HOSE AND SPRAY, 1.5 GPM MAX	33"x22"x 8-3/16"	1-1/2"	2"	1-1/2"	1/2"	1/2"	18 GAUGE STAINLESS STEEL; PUNCHED TO ACCOMMODATE FAUCET AND SPRAY. PROVIDE ANGLE STOP WITH OVAL HANDLE AND FLEXIBLE RISERS; 17 GAUGE TRAP. ELKAY LKJ-35 DRAIN (REAR PUNCH); 17 GA. CONTINUOUS DRAIN ASSEMBLY. PROVIDE "PASCO" AIR GAP FITTING ON COUNTER FOR DISHWASHER CONNECTION. PROVIDE OTHER COMPARTMENT WITH OFFSET GRID DRAIN ASSEMBLY FOR WHEELCHAIR; PROVIDE APRON. PROVIDE WITH WALL CLEANOUT (WCO-1).
SH-1	SHOWER, ACCESSIBLE ROLL-IN	AQUATIC 16030BFSBTTR WITH MOEN 62320 PRESS. BALANCED VALVE, MOEN 52224GBM15 HAND HELD SHOWER SYSTEM, 1.5 GPM MAX	60"x30"x 76-3/4"H	2"	2"	1-1/2"	1/2"	1/2"	GELCOAT WITH INTEGRAL DRAIN AND BUILT IN BACKING FOR GRAB BAR INSTALLATION. HAND HELD SHOWER, HOSE VACUUM BREAKER AND GRAB/SLIDE BAR, OUTLET FITTING, SHOWER CURTAIN, FOLDING TEAKWOOD SEAT. VERIFY RIGHT/LEFT CONFIGURATION WITH ARCHITECTURAL PLANS. ADJUST TEMPERATURE LIMIT STOP TO DELIVER HOT WATER AT 110° MAXIMUM. PLUMBING CONTRACTOR TO PROVIDE SAND/GROUT SHOWER PAN SUPPORT
SS-1	SERVICE SINK	FIAT MSB-2424 W/MOEN 8230 FAUCET	24"x24"x12"	3"	3"	1-1/2"	1/2"	1/2"	MOLDED STONE; FLOOR MOUNTED, SQUARE. INTEGRAL DRAIN. STOPS IN SHANK. CAST IRON TRAP. 832-AA HOSE AND WALL HOOK, 889-CC STAINLESS STEEL MOP HANGER AND MSG-2424 STAINLESS STEEL SPLASH PANELS. PROVIDE WITH WALL CLEANOUT (WCO-1). PROVIDE VACUUM BREAKER FOR FAUCET
TD-1	TRENCH DRAIN (LAUNDRY)	(POURED IN PLACE BY OTHERS)	36"x18"x18"	4"	4"	3"	--	--	POURED IN PLACE CONCRETE TRENCH. PROVIDE 6" FD WITH DOME GRADE IN BOTTOM OF LOW SIDE OF TRENCH. COORDINATE SIZE WITH LAUNDRY EQUIPMENT AND LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.
TP-1	TRAP PRIMER	JAY R. SMITH 2699-1	--	--	--	--	1/2"	--	PROVIDE SCREWDRIVER STOP VALVE UPSTREAM FOR MAINTENANCE. PROVIDE APPROPRIATE ACCESS PANEL FOR MAINTENANCE.
WC-1	WATER CLOSET (PRESSURE ASSISTED TANK TYPE, ADA COMPLIANT)	VORTENS 3123-V SEAT HYDRAPRO HPWCSNLOF TANK VORTENS 3486-V, 1.28 GPF	ELONGATED BOWL	--	3"	2"	1/2"	--	VITREOUS CHINA; FLOOR MOUNTED. PROVIDE VITREOUS CHINA TANK AND TANK COVER, POLISHED CHROME TRIP LEVER, BOLT CAPS, CLOSET SWEEP, SEAT FLANGE AND GASKET. OPEN FRONT SEAT, WHITE, WITHOUT COVER. PROVIDE WITH OVAL HANDLE AND FLEXIBLE RISERS. PROVIDE WITH MANUFACTURER'S PRESSURE ASSISTED FLUSHING SYSTEM. MOUNT PER ADA; TRIP LEVER ON WIDE SIDE.
WCO-1	WALL CLEAN OUT	JAY R. SMITH 4472	--	--	--	--	--	--	TAPERED BRONZE PLUG AND STAINLESS STEEL COVER. SIZE TO MATCH WASTE PIPING, 2" MINIMUM.
SOI-1	1000 GAL SAND & OIL INTERCEPTOR	IDAHO PRE CAST 1000 GALLON	102"x54"x 71-3/8"	--	4"	3"	--	--	PROVIDE WITH 2' MAN HOLE OPENING AND LID LEVELING UNITS AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE WITH GAS TIGHT CLEANOUT COVERS. PROVIDE TRAFFIC RATED UNIT UNLESS LOCATED IN LANDSCAPING.

GENERAL SCHEDULE NOTES

1. FIXTURES INDICATED AS ADA MUST COMPLY WITH ICC/ANSI A117.1. VERIFY EXACT NUMBERS, FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS.
2. ALL HW PIPING AND DRAIN LINES BENEATH ADA COMPLIANT LAVATORIES MUST BE INSULATED TO PREVENT BURNS, WHERE APPLICABLE. REF. ARCHITECTURAL PLANS. INSULATE WITH MOLDED CLOSED CELL VINYL INSULATION - TRUEBRO OR EQUAL.
3. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS (PPP INC., OR EQUAL). PROVIDE ACCESS PANELS AS REQUIRED.
4. ALL ACCESS PANELS AND WALL BOXES SHALL BE RATED TO MATCH ASSEMBLY RATING.

EQUIVALENT MANUFACTURERS

ENAMELED CAST IRON, VITREOUS CHINA, ACRYLIC	KOHLER, AMERICAN STANDARD, ELJER, CRANE, ZURN WARE, BEST BATH, LASCO, AQUAGLASS
STAINLESS STEEL SINKS	ELKAY, JUST, DAYTON, KOHLER
SERVICE SINKS	FIAT, BRADLEY, ACORN, STERN & WILLIAMS, E.L. MUSTEE
FAUCETS	DELTA HDF, ELKAY, JUST, KOHLER, ZURN, AMERICAN STANDARD
SHOWER VALVES, MIXING VALVES	POWERS, LEONARD, SYMMONS, MOEN
TOILET SEATS	CHURCH, OSLONITE, BEMIS, SMITH,
ROOF DRAINS, FLOOR SINKS, FLOOR DRAINS AND TRAPS	WATTS, ZURN, WADE, JOSAM WATTS,
BACKFLOW PREVENTION DEVICES, PRESSURE REDUCING VALVES	WILKENS, FEBCO, APOLLO/CONBRA CO,
TRAP PRIMERS AND SHOCK ABSORBERS	PPP, SIOUX CHIEF, SMITH

NON RESIDENTIAL CAL GREEN STANDARDS: MAXIMUM FLOW RATES PER CALGREEN TABLE A5.303.2.3.1		
FIXTURE TYPE	MAXIMUM FLOW RATE	NOTES
WATER CLOSETS	1.28 GALLONS PER FLUSH	[1] [3]
SHOWERHEADS	2 GALLONS PER MINUTE (AT 80 PSI)	[1] [2]
NONRESIDENTIAL LAVATORY FAUCETS	0.5 GALLONS PER MINUTE (AT 60 PSI)	[5]
KITCHEN FAUCETS	1.8 GALLONS PER MINUTE (AT 60 PSI)	[4] [5]
WASH FOUNTAINS	1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI]	[5]
METERING FAUCETS	0.2 GALLONS PER CYCLE	[5]
METERING FAUCETS FOR WASH FOUNTAINS	0.2 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI]	[5]

NOTES:

[1] SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE EPA WATERSENSE SPECIFICATION.
[2] WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.5 GALLONS PER MINUTE (AT 80 PSI), OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.
[3] THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.
[4] KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.5 GPM AT 60 PSI.
[5] WHERE COMPLYING FAUCETS ARE NOT AVAILABLE, AERATORS OR OTHERS MEANS MAY BE USED TO ACHIEVE REDUCTION.

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		02/18/2022
3	100% REVIEW SET		03/09/2022
4	PERMIT SET		03/29/2022
5	PERMIT REV 1		07/08/2022

DESIGN BY:
DRAWN BY: DM
CHECKED BY: JB

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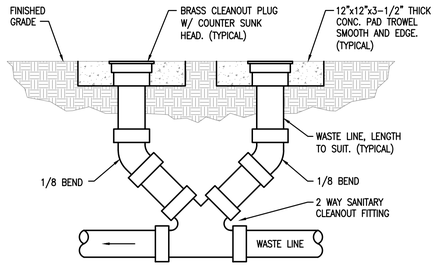
Project: 22MBA04

REGISTERED PROFESSIONAL ENGINEER JARED H. MILLER NO. 31885 MECHANICAL STATE OF CALIFORNIA
07-25-22

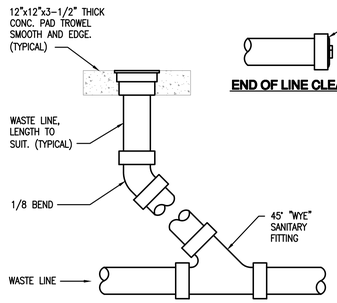
PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
PLUMBING - SCHEDULE

SHEET P3.00
OF ___ SHEETS
JOB NO. 1509-00

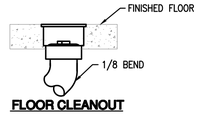


DOUBLE GRADE CLEANOUT

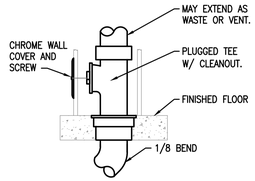


GRADE CLEANOUT

END OF LINE CLEANOUT



FLOOR CLEANOUT



WALL CLEANOUT

2 CLEANOUT DETAILS
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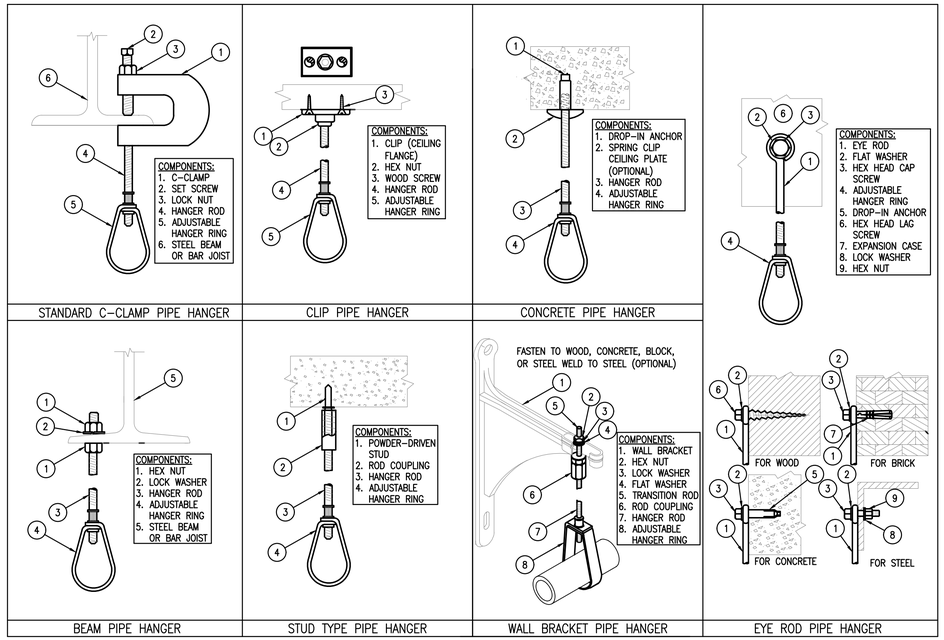
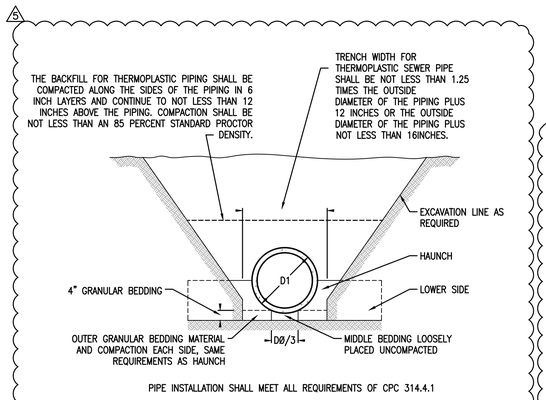
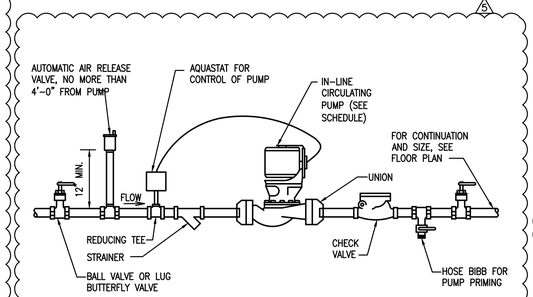


1 PIPE HANGER DETAIL
SCALE: NTS



10 BURIED THERMOPLASTIC WASTE PIPE DETAIL
SCALE: NTS

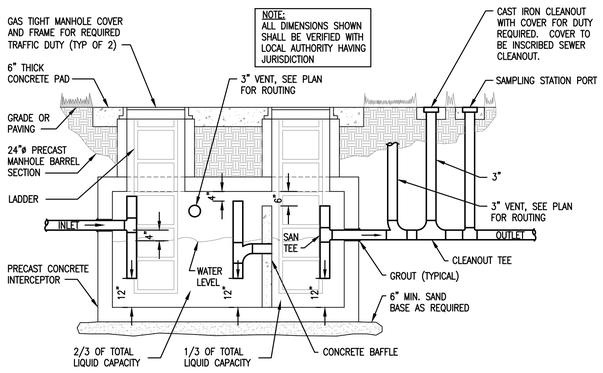


6 RECIRC PUMP DETAIL
SCALE: NTS

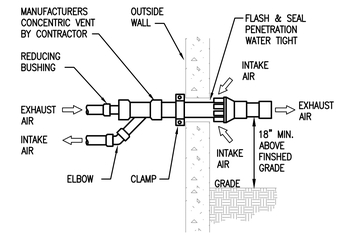
5 GAS CONNECTION DETAIL
SCALE: NTS

4 TRAP PRIMER DETAIL
SCALE: NTS

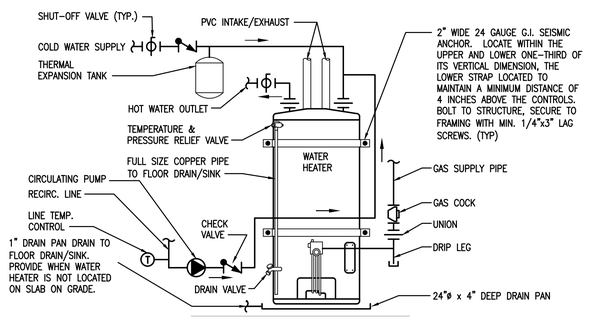
3 INDIRECT WASTE DRAIN DETAIL
SCALE: NTS



9 SAND OIL INTERCEPTOR DETAIL
SCALE: NTS (1,000 GAL)



8 CONCENTRIC VENT THROUGH WALL DETAIL
SCALE: NTS



7 CLOSED COMBUSTION GAS RECIR. W/H DETAIL
SCALE: NTS

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REGISTERED PROFESSIONAL ENGINEER — JARED H. MILLER — NO. 31885 — MECHANICAL — STATE OF CALIFORNIA
07-25-22

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
PLUMBING - DETAILS

SHEET P4.00 OF ___ SHEETS
JOB NO. 1509-00

STRUCTURAL SPECIFICATIONS

PART 1 - GENERAL NOTES

1.1 GENERAL NOTES

A. ALL GENERAL NOTES APPLY, UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS.

B. ORDER OF PRECEDENCE: DRAWINGS GOVERN OVER NOTES, NOTES ON THE INDIVIDUAL DRAWINGS GOVERN OVER THESE GENERAL NOTES. FOUNDATION, FLOOR AND ROOF DETAILS GOVERN OVER TYPICAL DETAILS. REFER TO CONTRACT SPECIFICATIONS FOR INFORMATION IN ADDITION TO THAT CONTAINED IN THESE NOTES AND DRAWINGS. THE DRAWINGS SHALL TAKE PRECEDENCE OVER SPECIFICATIONS IF THEY CONTRADICT. ADDENDA, RFI'S AND SKETCHES TAKE PRECEDENCE OVER THESE DRAWINGS.

C. NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES:
   i. BETWEEN PLANS, SPECIFICATIONS AND GOVERNING CODE.
   ii. BETWEEN DETAILS AND TYPICAL DETAILS.
   iii. BETWEEN NOTES AND DRAWINGS.

1.2 SCOPE OF WORK

A. THE SEALED STRUCTURAL DRAWINGS AND PROJECT SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE.

B. THE CONTRACTOR SHALL MAKE AND KEEP CURRENT A SET OF RECORD DRAWINGS SHOWING EXACT DIMENSIONED LOCATIONS OF UNDERGROUND UTILITIES, STUB OUTS, CONSTRUCTION CHANGES.

1.3 CODE COMPLIANCE

A. ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST RULES, CODES, AND REGULATIONS IN THE STATE OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO OSHA, ADOPTED BUILDING CODE AND OTHER STATE AND LOCAL LAWS AND REGULATIONS. CODE COMPLIANCE IS MANDATORY. NOTHING IN THESE DRAWINGS AND SPECIFICATIONS PERMITS WORK NOT CONFORMING TO THESE CODES. WHERE WORK IS SHOWN TO EXCEED MINIMUM CODE REQUIREMENTS, COMPLY WITH DRAWINGS AND SPECIFICATIONS.

B. ALL PRODUCT SUBMITTALS AND PRODUCT SUBSTITUTIONS ARE TO BE SUPPLIED WITH ICC-ES REPORTS TO COMPLY WITH CODE REGULATIONS ACCORDING TO THE ADOPTED BUILDING CODE.

1.4 LICENSE FEES AND PERMITS

A. THE CONTRACTOR SHALL ARRANGE FOR REQUIRED INSPECTIONS AND PAY ALL LICENSE, PERMIT AND INSPECTION FEES, UNLESS DIRECTED OTHERWISE IN SPECIFICATIONS OR CONTRACT.

1.5 SAFETY

A. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FRAMED FLOORS OR ROOFS. THE CONSTRUCTION MATERIAL LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

B. CONTRACTOR TO PROVIDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS REQUIRED.

C. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.

1.6 SUBSTITUTIONS

A. WHEREVER POSSIBLE, MORE THAN ONE MANUFACTURER HAS BEEN LISTED FOR VARIOUS PRODUCTS, ANY ONE OF WHICH WILL BE ACCEPTABLE TO BASE THE BID ON THE USE OF MATERIAL SPECIFIED.

1.7 COORDINATION

PROFESSIONAL REFERENCED REPORTS REFERENCED IN CONSTRUCTION DOCUMENTS.
I. GEOTECHNICAL
   a. (Report of Geotechnical Investigation - County of Imperial Fire Station and Cooling Center, Project No. EC957, January 18, 2022)
   b. Geotechnical Letter - Interwest Plan Check Comments, Project No. EC957. June 21, 2022

5

A. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION.

B. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING ELEVATIONS SHOWN ON THESE DRAWINGS PRIOR TO CONSTRUCTION, DO NOT SCALE PLANS.

C. CONTRACTOR TO REPORT IN WRITING ANY OMISSIONS AND/OR DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS TO THE ARCHITECT PRIOR TO PROCEEDING.

D. REFER TO ELECTRICAL PLANS FOR SLEEVES, OPENINGS, HANGERS FOR PIPES, DUCTS, AND EQUIPMENT. COORDINATE THESE ITEMS WITH STRUCTURAL WORK.

1.8 MISC.

A. DO NOT SCALE THE DRAWINGS.

B. TYPICAL DETAILS AND SCHEDULES INDICATED MAY NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES. IF LOCATIONS ARE FOUND WHERE NO TYPICAL DETAIL, TYPICAL SCHEDULE, OR SPECIFIC DETAIL APPLIES, NOTIFY THE ARCHITECT/ENGINEER.

PART 2 - MATERIALS AND DESIGN CRITERIA

2.1 DESIGN LOADING CRITERIA

A. APPLICABLE BUILDING CODES:
   I. 2019 CALIFORNIA BUILDING CODE (CBC): REFERENCED IN DRAWINGS AS "ADOPTED BUILDING CODE"
   II. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES

B. RISK CATEGORY: IV 5

C. DEAD LOADS: SELF WEIGHT OF THE STRUCTURE PLUS A MAXIMUM COLLATERAL LOADS OF:
   I. SPRINKLERS = 1.0 PSF
   II. MECHANICAL DUCTS = 1.0 PSF
   III. ELECTRICAL CONDUIT = 1.0 PSF

D. LIVE LOADS
   I. FLOOR LIVE LOAD: 100 PSF, UNO
      a. STORAGE = 125 PSF
   II. ROOF LIVE LOAD:
      a. CONSTRUCTION = 20 PSF (REDUCIBLE)

E. SNOW LOAD DATA
   I. SNOW IMPORTANCE FACTOR = 1.20
   II. THERMAL FACTOR = 1.0
   III. SNOW EXPOSURE FACTOR, C_e = 1.0
   IV. GROUND SNOW LOAD: P_g = 0 PSF
   V. ROOF SNOW LOAD: P_f = 0 PSF
   VI. MINIMUM ROOF SNOW LOAD: P_f = 0 PSF
   VII. DRIFTING, SLIDING AND UNBALANCED SNOW LOADS: IN ACCORDANCE WITH ASCE 7

F. WIND LOAD DATA
   I. WIND EXPOSURE CATEGORY = C
   II. ULTIMATE DESIGN WIND SPEED: V_{ult} = 108 MPH, 3 SECOND GUST
   III. NOMINAL DESIGN WIND SPEED: V_{asd} = 84 MPH, 3 SECOND GUST
   IV. APPLICABLE INTERNAL PRESSURE COEFFICIENT: GC_{pi} = +/- 0.18
   V. COMPONENT AND CLADDING WIND LOADS: N/A

2.1 DESIGN LOADING CRITERIA (CONT)

G. EARTHQUAKE DESIGN DATA
   I. SEISMIC IMPORTANCE FACTOR = 1.5
   II. SEISMIC DESIGN CATEGORY = D
   III. SITE CLASS = D
   IV. BASIC SEISMIC RESISTING SYSTEM = PER PEMB DESIGN
   V. RESPONSE MODIFICATION FACTOR, R = PER PEMB DESIGN
   VI. SPECTRAL RESPONSE ACCELERATION:
      a. SHORT PERIOD, S_S = 0.1.5 g
      b. 1 SECOND PERIOD, S_1 = 0.6 g 5
   VII. DESIGN SPECTRAL RESPONSE ACCELERATION:
      a. SHORT PERIOD, S_{DS} = 1.0 g
      b. 1 SECOND PERIOD, S_{D1} = 0.6 g
   VIII. SEISMIC RESPONSE COEFFICIENT, C_S = PER PEMB DESIGN
   IX. DESIGN BASE SHEAR, V = C_S * W (W = BUILDING SEISMIC DEAD LOAD)
   X. ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

2.2 SOILS AND FOUNDATIONS

A. CODE COMPLIANCE
   I. THE FOUNDATIONS SHALL CONFORM TO ADOPTED BUILDING CODE CHAPTER FOR "SOILS AND FOUNDATIONS".

B. DESIGN SOIL VALUES: THE STRUCTURAL DESIGN IS BASED ON OWNER-ACCEPTED RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT REFERENCED IN PART 1 - GENERAL NOTES - 1.11. COORDINATION PART A.
   I. SOIL BEARING PRESSURE (DL+LL) = 1,500 PSF
   II. LATERAL BEARING PRESSURE = 300 PCF
   III. COEFFICIENT OF SLIDING FRICTION = 0.25
   IV. SUBGRADE MODULUS, K = 150 PCI
   V. MINIMUM FOOTING EMBEDMENT BELOW LOWEST ADJACENT GRADE = 30"
   VI. SULFATE EXPOSURE - NEGLIGIBLE (PER GEOTECH)

C. SITE PREPARATION BY OTHERS
   I. CONTRACTOR SHALL PREPARE SITE IN ACCORDANCE WITH OWNER-ACCEPTED RECOMMENDATIONS AS LISTED IN GEOTECHNICAL REPORT
   II. CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES, FOOTINGS, AND ALL OTHER BURIED OBJECTS.
   III. CONTRACTOR SHALL PROVIDE PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER SEEPAGE AND ETC.
   IV. EXCAVATION FOR ANY PURPOSE SHALL NOT REDUCE LATERAL SUPPORT FROM ANY EXISTING FOUNDATION OR ADJACENT EXISTING FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST DETRIMENTAL LATERAL OR VERTICAL MOVEMENT, OR BOTH.
   V. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. BACKFILL SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. SEE GEOTECHNICAL REPORT FOR REQUIREMENTS. FLOODING WILL NOT BE PERMITTED.
   VI. CONTRACTOR TO COORDINATE METHODS OF CONSTRUCTION WITH GEOTECHNICAL ENGINEER FOR IMPACTS TO ADJOINING PROPERTIES TO INCLUDE BUT NOT LIMITED TO VIBRATIONS AND SETTLEMENT FROM DRIVEN PILES, WILD-LIFE AND NATURE RESERVES, AND ETC.

D. SITE CONTROL DURING CONSTRUCTION
   I. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND CRIBBING AS NEEDED AT ALL EXCAVATIONS, EARTH BANKS, AND EXISTING STRUCTURES.
   II. CONTRACTOR SHALL KEEP SOIL AT PROPER MOISTURE CONTENT AS NOTED IN THE GEOTECHNICAL REPORT.
   III. CONTRACTOR SHALL PROVIDE PROPER SITE DRAINAGE AND DEWATERING OF SITE AND EXCAVATIONS. ALL EXCAVATIONS WITHIN BUILDING PERIMETER SHALL BE PROPERLY BACKFILLED AND COMPACTED TO MEET GEOTECHNICAL REQUIREMENTS.

E. GEOTECHNICAL INSPECTION
   I. GEOTECHNICAL INSPECTIONS BY OWNER. SEE S0.00 - 3.2

F. SLAB ON GRADE AND FOUNDATIONS
   I. ALL FOUNDATIONS SHALL BEAR ON COMPETENT NATIVE SOIL OR STRUCTURAL COMPACTED FILL PER GEOTECHNICAL REPORT. ALL SLABS ON GRADES SHALL BEAR ON APPROPRIATE SUBGRADE PREPARATION AS NOTED IN GEOTECHNICAL REPORT, WHICH MAY INCLUDE FREE DRAINING SAND/GRAVEL AND VAPOR BARRIER.
   II. VAPOR BARRIER TO BE LOCATED AS DIRECTED IN ACI 302.1R-15 UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

2.3 CONCRETE

A. GENERAL
   I. CONCRETE SHALL CONFORM TO ADOPTED BUILDING CODE CHAPTER FOR "CONCRETE" AND THE FOLLOWING:
      a. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
   II. CONCRETE MIXING OPERATIONS SHALL BE IN ACCORDANCE WITH ASTM C94.
   III. 28 DAY CONCRETE STRENGTHS AND W/C RATIOS, SEE CONCRETE MEMBER SCHEDULES ON TYPICAL CONCRETE DETAIL SHEETS.

B. CEMENT
   I. PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE I.
   II. DO NOT USE CONCRETE OR GROUT CONTAINING CHLORIDES.

C. AGGREGATE
   I. NORMAL WEIGHT CONCRETE AGGREGATE SHALL CONFORM TO ASTM C33 AND PROJECT SPECIFICATIONS.
   II. MAX AGGREGATE SIZE = 1 1/2", UNO

D. CEMENTITIOUS MATERIALS
   I. CEMENTITIOUS MATERIALS SUCH AS FLY ASH, SLAG, SILICA FUME, AND OTHER POZZOLANS; MAY BE USED AS AN ALTERNATIVE TO PORTLAND CEMENT. THE AMOUNT OF CEMENTITIOUS MATERIALS USED SHALL BE ADEQUATE FOR CONCRETE TO SATISFY THE SPECIFIED REQUIREMENTS FOR STRENGTH, W/CM, DURABILITY, AND FINISHABILITY, UNLESS NOTED OTHERWISE BELOW. CEMENTITIOUS MATERIAL SHALL BE IN ACCORDANCE WITH ACI 301-10, SECTION 4.2.
      a. IF FLY ASH IS USED, THE MAXIMUM AMOUNT SHALL BE 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIALS.
      b. CONCRETE EXPOSED TO FREEZE-THAW CYCLES AND WHERE EXPOSURE TO DEICING CHEMICALS IS ANTICIPATED SHALL HAVE CEMENTITIOUS MATERIAL AMOUNTS LIMITED TO ACI 318.

E. ENTRAINED AIR
   I. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL HAVE 6% (+/- 1.5%) OF ENTRAINED AIR. ALL OTHER CONCRETE SHALL HAVE 2% (+/- 1%) OF ENTRAINED AIR.
   II. SPECIFIED AIR ENTRAINMENT PERCENTAGE SHALL BE ACHIEVED AT TIME CONCRETE IS DELIVERED ON SITE.

F. SLUMP
   I. SLUMP OF CONCRETE MIXTURE BEFORE ADDING ADMIXTURES SHALL BE 4" (+/- 1").

2.3 CONCRETE (CONT)

G. CONSTRUCTION EXECUTION
   I. THE TEMPERATURE OF CONCRETE MUST REMAIN ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR 7 DAYS AFTER CONCRETE PLACEMENT; UNLESS OTHERWISE ACCEPTED BY ENGINEER/ARCHITECT. ADDITIONAL TESTING FOR CONDITIONS LESS THAN 50 DEGREES FAHRENHEIT INCLUDE HAVING 2 ADDITIONAL CYLINDERS POURED AND FIELD CURED PRIOR TO CONCRETE PLACEMENT.
   II. COLD WEATHER PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 318 AND ACI 306R - "GUIDE TO COLD WEATHER CONCRETING"
   III. HOT WEATHER PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 318 AND 305R -"HOT WEATHER CONCRETING".
   IV. CLEAN AND ROUGHEN CONCRETE SURFACES TO ¼" FULL AMPLITUDE AT CONCRETE COLD JOINTS.
   V. CONCRETE CLEAR COVERAGE OVER REINFORCING BARS AND ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH THE ACI.
   VI. THE PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS. CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED, LAITANCE REMOVED, AND STANDING WATER REMOVED BEFORE PLACING NEW CONCRETE.

H. REINFORCING, EMBEDS, PIPES, WATERSTOPS AND INSERTS
   I. ALL EMBEDS, REINFORCING BARS, ANCHOR BOLTS, WATERSTOPS AND CONCRETE INSERTS MUST BE SECURELY IN PLACE PRIOR TO CONCRETE PLACEMENT.
   II. SLAB ON GRADE DO NOT REQUIRE SLEEVES AT LOCATIONS WHERE MECHANICAL PIPES AND ELECTRICAL CONDUITS PASS THROUGH UNLESS OTHERWISE NOTED ON MECHANICAL OR ELECTRICAL DRAWINGS OR IN SPECIFICATION.
   III. IF SLEEVES ARE USED, THE SLEEVES MUST BE POSITIONED BEFORE CONCRETE IS POURED. CORING OPENINGS THROUGH CONCRETE IS NOT PERMITTED. DO NOT CUT REINFORCING THAT MAY INTERFERE WITH SLEEVES.
   IV. CONCRETE COLUMNS SHALL NOT HAVE MECHANICAL PIPES AND ECTRICAL CONDUITS PASS THOUGH THEM UNLESS SPECIFIED ON STRUCTURAL DRAWINGS.
   V. SLAB ON GRADE SHALL NOT HAVE MECHANICAL PIPES OR ELECTRICAL CONDUITS RUNNING CONTINUOUS WITHIN THE SLAB THICKNESS OR DIRECTLY BELOW THE SLAB UNLESS SPECIFIED OTHERWISE ON THE STRUCTURAL DRAWINGS.
   VI. NO MECHANICAL OR ELECTRICAL PIPES TO BE INSTALLED PARALLEL IN WALL OR SLAB WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
   VII. AT PENETRATIONS IN GRADE BEAMS, PROVIDE GALVANIZED PIPE SLEEVES, AS REQUIRED BY MECHANICAL DRAWINGS.

I. SUBMITTALS
   I. CONCRETE MIX DESIGNS:
      a. CONCRETE MIX DESIGNS SHALL BE FULLY DOCUMENTED AND REVIEWED BY QUALIFIED TESTING LABORATORY. THE SUBMITTED MIX TEST DATA SHALL BE IN ACCORDANCE WITH ACI 318.
      b. MINIMUM OF (3) 4"x8" CYLINDERS TO BE TESTED PER 150 CUBIC YARDS OF CONCRETE.
   II. CONCRETE JOINT PLACEMENT
      a. THE PROPOSED LOCATIONS OF CONCRETE JOINTS MUST BE SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER BEFORE POURING OF CONCRETE. PLACE JOINTS AT LOCATIONS TO MINIMIZE CONCRETE CRACKING AND OTHER EFFECTS FOR CURING AND SHRINKAGE. JOINT LOCATIONS SHOWN ON DRAWINGS ARE A MINIMUM.

J. QUALITY ASSURANCE:
   I. TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT AGENCY, ACCEPTABLE TO OWNER AND AUTHORITIES HAVING JURISDICTION, QUALIFIED ACCORDING TO ASTM C 1077 AND ASTM E 329 FOR TESTING INDICATED.
      a. PERSONNEL PERFORMING LABORATORY TESTS SHALL BE ACI-CERTIFIED CONCRETE STRENGTH TESTING TECHNICIAN AND CONCRETE LABORATORY TESTING TECHNICIAN - GRADE I. TESTING AGENCY LABORATORY SUPERVISOR SHALL BE AN ACI-CERTIFIED CONCRETE LABORATORY TESTING TECHNICIAN - GRADE II.
   II. SOURCE LIMITATIONS: OBTAIN EACH TYPE OR CLASS OF CEMENTITIOUS MATERIAL OF THE SAME BRAND FROM THE SAME MANUFACTURER'S PLANT, OBTAIN AGGREGATE FROM SINGLE SOURCE, AND OBTAIN ADMIXTURES FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
   III. ACI PUBLICATIONS: COMPLY WITH THE FOLLOWING UNLESS MODIFIED BY REQUIREMENTS IN THE CONTRACT DOCUMENTS:
      a. ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE," SECTIONS 1 THROUGH 5.
      b. ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."
      c. ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
   IV. COMPLY WITH THE CONCRETE REINFORCING INSTITUTE "MANUAL OF STANDARD PRACTICE."

2.4 REINFORCING STEEL BAR

A. GENERAL
   I. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE SPECIFICATIONS.
   II. WELDING OF REINFORCING STEEL BAR SHALL BE IN ACCORDANCE WITH AWS D1.4 STRUCTURAL WELDING CODE-REINFORCING STEEL.

B. REINFORCING STEEL
   I. DEFORMED BARS SHALL BE ASTM A615 - GRADE 60.
   II. WELDABLE DEFORMED BARS SHALL CONFORM TO ASTM A706 - GRADE 60.

C. CONSTRUCTION EXECUTION
   I. FOR REINFORCING PLACEMENT, LAP LENGTH, AND ADDITIONAL INFORMATION SEE CONCRETE TYPICAL DETAIL SHEETS.
   II. FIELD BENDING OR STRAIGHTENING OF BARS SIZES 3 THROUGH 5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS.
   III. BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY STATED ON DRAWINGS OR AUTHORIZED BY ENGINEER.

2.5 STEEL

A. DEFERRED SUBMITTALS: SHOP DRAWINGS AND CALCULATIONS ARE REQUIRED TO BE STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
   I. PRE-ENGINEERED STEEL BUILDING

PART 3 - EXECUTION

3.1 GENERAL NOTES

A. THE METHODS, PROCEDURES, AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

B. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

C. THE CONTRACTOR SHALL TAKE THE RESPONSIBILITY TO PROVIDE SUPERVISION OF THE CONSTRUCTION TO INSURE COMPLIANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

D. PER THE ADOPTED BUILDING CODE SECTION 1704.4, EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-FORCE-RESISTING OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

3.2 SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS BY OTHERS

A. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE BUILDING OFFICIAL, REGISTERED SPECIAL INSPECTOR, AND/OR REGISTERED LICENSED ENGINEER FOR ALL SPECIAL INSPECTIONS OR TESTING REQUIRED IN THIS SECTION.

B. CONTRACTOR SHALL SUBMIT ALL SPECIAL INSPECTION REPORTS TO STRUCTURAL ENGINEER OF RECORD WITHIN 14 DAYS OF EACH REPORT BEING COMPLETED.

C. AN APPROVED AGENCY AS SET FORTH IN ADOPTED BUILDING CODE SECTION 1703 WITH THE APPROVAL OF THE BUILDING OFFICIAL MAY PERFORM SPECIAL INSPECTIONS.

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D. PER THE LOCAL AHJ, A STRUCTURAL OBSERVATION IS REQUIRED TO BE PERFORMED BY A REGISTERED DESIGN PROFESSIONAL THE CONTRACTOR SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURUAL OBSERVATIONS. DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER AND THE BUILDING OFFICIAL. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE SUTRCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

E. PROVIDE ADDITIONAL INSPECTION REQUIREMENTS PER ADOPTED BUILDING CODE 17A FOR ESSENTIAL SERVICE BUILDINGS.

F. WHERE SPECIAL INSPECTION OR TESTING IS REQUIRED BY ADOPTED BUILDING CODE SECTION 1704 AND 1705 (SPECIAL INSPECTIONS), 1705.12 (SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE), OR 1705.13 (STRUCTURAL TESTING FOR SEISMIC RESISTANCE), THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IS REQUIRED TO PREPARE A STATEMENT OF SPECIAL INSPECTION DESCRIBED IN THE FOLLOWING (ALL TABLES REFERENCED ARE FROM THE ADOPTED BUILDING CODE, UNO):
   I. SOILS: REFER TO TABLE 1705.6
      a. EXISTING SITE SOIL CONDITIONS
      b. FILL PLACEMENT
      c. LOAD-BEARING REQUIREMENTS
   II. CONCRETE: REFER TO TABLE 1705.3
   III. STRUCTURAL STEEL
      a. SPECIAL INSPECTION, QUALITY CONTROL, QUALITY ASSURANCE AND NON-DESTRUCTIVE TESTING FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF AISC 360-10, CHAPTER N.
         i. FABRICATOR AND ERECTOR TO PERFORM QUALITY CONTROL PROCEDURES AND INSPECTIONS.
         ii. FABRICATOR AND ERECTOR TO HAVE REQUIRED DOCUMENTS AVAILABLE FOR REVIEW UPON REQUEST, UNLESS OTHERWISE REQUIRED IN THE CONTRACT DOCUMENTS TO BE SUBMITTED.
         iii. INSPECTION OF WELDING
         iv. NONDESTRUCTIVE TESTING OF WELDED JOINTS
         v. INSPECTION OF HIGH-STRENGTH BOLTING
         vi. OTHER INSPECTION TASKS:
            A. INSPECTION OF FABRICATED STEEL
            B. INSPECTION OF ERECTED STEEL
            C. INSPECTION OF ANCHOR RODS
         vii. EXCEPTION FOR APPROVED FABRICATORS AND ERECTORS:
            A. QUALITY ASSURANCE MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM THE WORK WITHOUT QUALITY ASSURANCE.
      b. LATERAL RESISTING SYSTEMS: SPECIAL INSPECTION FOR STRUCTURAL STEEL SEISMIC FORCE RESISTING SYSTEMS IN SEISMIC DESIGN CATEGORY B,C,D,E OR F SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341-10.
         i. ALL STEEL MOMENT FRAMES
         ii. ALL STEEL BRACE FRAMES

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G. THE CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE SEISMIC-FORCE-RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATE OF RESPONSIBILITY TO THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM.

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	REQUIRED		CONT	PERIODIC
	YES	NO		
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	X			X
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2B.		X		
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	X			X
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		X		
5. VERIFYING USE OF REQUIRED DESIGN MIX.	X			X
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		X	
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		X	
8. INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X			X
9. INSPECTION OF PRESTRESSED CONCRETE:				
a. APPLICATION OF PRESTRESSING FORCES.		X		
b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM.		X		
10. ERECTION OF PRECAST CONCRETE MEMBERS.		X		
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X		
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	X			X

SHEET INDEX 5

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE	MANUF	MANUFACTURER
AIA	AMERICAN INSTITUTE OF ARCHITECTS	MAX	MAXIMUM
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MECH	MECHANICAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	MEZZ	MEZZANINE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MIN	MINIMUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MISC	MISCELLANEOUS
AWS	AMERICAN WELDING SOCIETY	N	NORTH
ARCH	ARCHITECT OR ARCHITECTURAL	NTS	NOT TO SCALE
BP	BASE PLATE	NO or #	NUMBER
BOD	BOTTOM OF DECK	OC	ON CENTER
CL	CENTER LINE	OD	OUTSIDE DIAMETER
CLR	CLEAR	PEN	PENETRATION
CONC	CONCRETE	PERP	PERPENDICULAR
CONST	CONSTRUCTION	PL	PLATE
CONT	CONTINUOUS	lb OR #	POUND
DL	DEAD LOAD	PCF	POUNDS PER CUBIC FOOT
DS	DEFERRED SUBMITTALS	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
2L	DOUBLE ANGLE	RAD	RADIUS
DWG	DRAWING	REF	REFERENCE
EOD	EDGE OF DECK	REINF	REINFORCE, REINFORCED, REINFORCEMENT OR REINFORCING
ELEC	ELECTRIC OR ELECTRICAL	REQ'D	REQUIRED
ELEV	ELEVATION	REV	REVISE OR REVISION
ENGR	ENGINEER	SCHED	SCHEDULE
EQ	EQUAL	EL	SEISMIC LOAD
EXIST	EXISTING	SIM	SIMILAR
EXT	EXTERIOR	SK	SKETCH
FAB	FABRICATION	SOG	SLAB ON GRADE
FF	FINISH FLOOR	S	SOUTH
FG	FINISH GRADE	SPECS	SPECIFICATIONS
FTG	FOOTING	SQ	SQUARE
GA	GAGE OR GAUGE	SF	SQUARE FOOT
GALV	GALVANIZE	STD	STANDARD
GEN	GENERAL (NOTES)	STL	STEEL
GC	GENERAL CONTRACTOR	STRUCT	STRUCTURAL
HORIZ	HORIZONTAL	SYM	SYMMETRICAL
NT	INTERIOR	THRU	THROUGH
IBC	INTERNATIONAL BUILDING CODE	T&B	TOP AND BOTTOM
K	KIP (1,000 LBS)	TOC	TOP OF CONCRETE
LW	LIGHT WEIGHT	TOF	TOP OF FOOTING
LL	LIVE LOAD	TRANS	TRANSVERSE
LONGIT	LONGITUDINAL	TYP	TYPICAL
		UN	UNLESS NOTED
		UNO	UNLESS NOTED OTHERWISE
		VERT	VERTICAL
		WT	WEIGHT
		WL	WIND LOAD

GENERAL NOTES

GENERAL NOTES:

G1 THE DIMENSIONS SHOWN HERE APPLY TO STRUCTURAL ELEMENTS ONLY.

G2 CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURAL CONDITIONS. IF ANY DISCREPANCY OCCURS BETWEEN EXISTING CONDITIONS AND PROPOSED ALTERATIONS, CONTRACTOR SHALL CONTACT STRUCTURAL ENGINEER BEFORE PERFORMING ALTERATION WORK.

LEGEND:

1 / S0.00	SECTION REFERENCE		NEW CONSTRUCTION
			EXISTING CONSTRUCTION OR PROVIDED BY OTHERS
1 / S0.00	ELEVATION REFERENCE		ELEMENT BEYOND/ OPTIONAL
			MASONRY (CMU)
1 / S0.00	GENERAL VIEW REFERENCE		CONCRETE
1	REVISION CLOUD AND NUMBER		EARTH

TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	REQUIRED		CONT	PERIODIC
	YES	NO		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X			X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	X			X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	X			X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	X			X

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DESIGN BY: TG
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REGISTERED PROFESSIONAL ENGINEER
JOSEPH L. CHAPMAN
6141
EXP: 09/30/23
STRUCTURAL
STATE OF CALIFORNIA
2022/07/08

PREPARED UNDER THE DIRECT SUPERVISION OF:

A.I.A. NO.

DATE

REG EXP.

PROJECT TITLE:

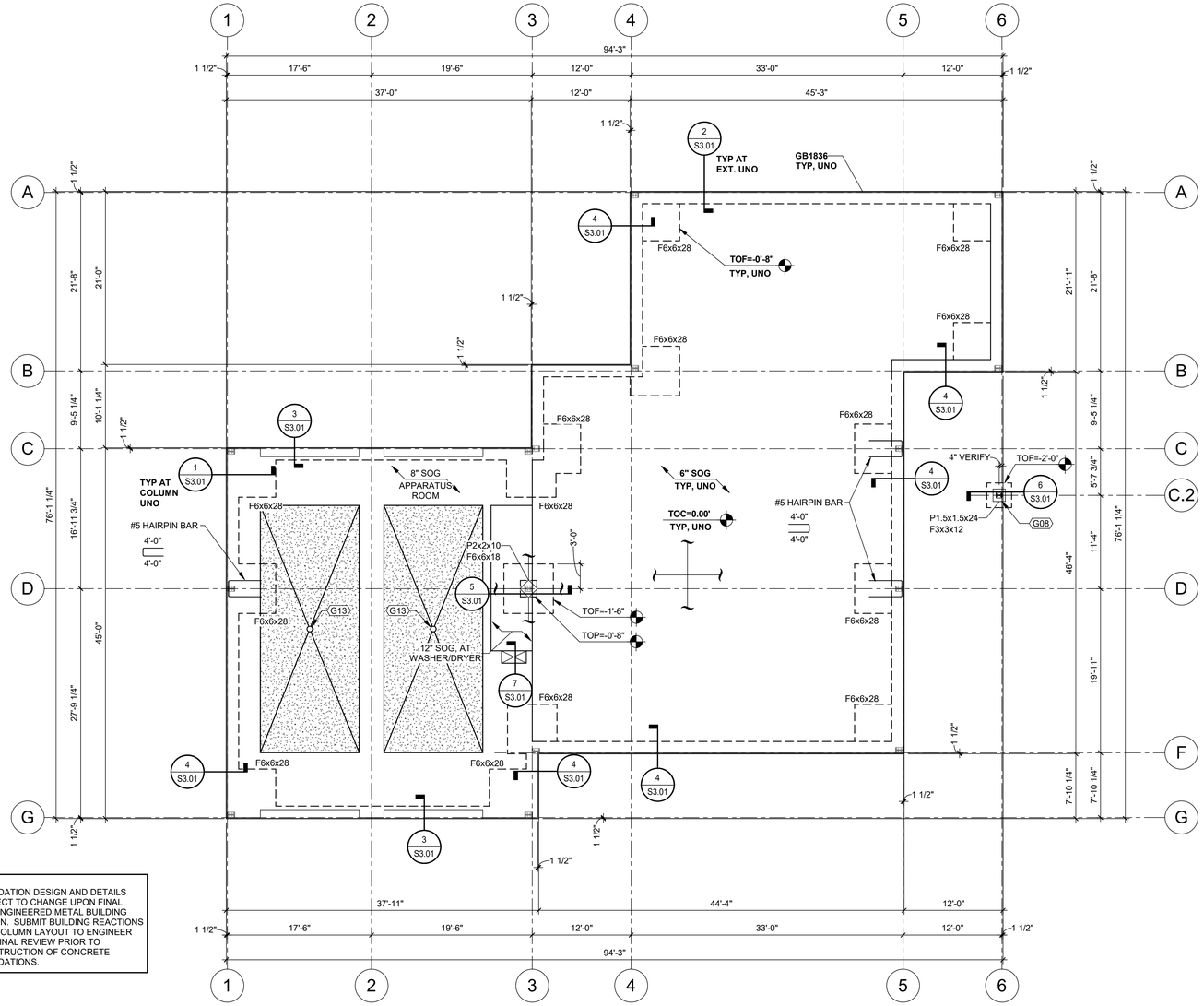
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:

STRUCTURAL LEGENDS AND SPECS

SHEET
S0.00
OF ___ SHEETS

JOB NO.
1509-00



NOTE:
FOUNDATION DESIGN AND DETAILS SUBJECT TO CHANGE UPON FINAL PRE-ENGINEERED METAL BUILDING DESIGN. SUBMIT BUILDING REACTIONS AND COLUMN LAYOUT TO ENGINEER FOR FINAL REVIEW PRIOR TO CONSTRUCTION OF CONCRETE FOUNDATIONS.

1 FOUNDATION PLAN

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

N

LEGEND

GENERAL

TOC=0'-0" — DENOTES ELEMENT ELEVATION:
(TOC) = TOP OF CONCRETE
(TOF) = TOP OF FOOTING
(TOP) = TOP OF PIER

CONCRETE

(SEE S2.00's SERIES SHEETS)

GB1230 — DENOTES ELEMENT TYPE:
(GB) = GRADE BEAM, SEE 7/S2.01
DESCRIBES DIMENSIONS [WIDTH, DEPTH] (INCHES)

F3x3x32 — DENOTES ELEMENT TYPE:
(F) = SPREAD FOOTING, SEE 1/S2.01
(P) = PIER, SEE 5/S2.02
DENOTES DEPTH OF FOOTING/ PIER (INCHES)
DESCRIBES ROUGH DIMENSIONS [WIDTHxLENGTH] (FEET)

6" SOG — DESCRIBES DIMENSIONS [THICKNESS] (INCHES)
DENOTES SLAB ON GRADE, SEE 3/S2.01

DENOTES CONTROL JOINT LOCATIONS TO BE COORDINATED BY CONTRACTOR, SEE 5/S2.01

DENOTES CONTROL JOINT LOCATIONS TO BE COORDINATED BY CONTRACTOR, SEE DETAILS 5/S2.01.

ISOLATION JOINT SEE DETAIL 11/S2.01

KEYNOTE SYMBOL LEGEND:

WA WHERE APPLICABLE
G08 COORDINATE TOP OF CONCRETE PIER WITH EXTERIOR SLAB
DENOTES ELEMENT SIZE AND INFORMATION IS PROVIDED ON PLAN AND/OR APPLICABLE SCHEDULES.
G13 SEE SHEET A3.20 FOR MEP KNOCKOUTS AND DRAINS THROUGH SLAB.

X## KEYNOTES

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DRAWN BY: PW
CHECKED BY: JC

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REGISTERED PROFESSIONAL ENGINEER — JOSEPH L. CHAPMAN — 8141 — EXP: 09/30/23 — STRUCTURAL — STATE OF CALIFORNIA
2022/07/08

PREPARED UNDER THE DIRECT SUPERVISION OF:

A.I.A. NO.

DATE

REG EXP.

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
FOUNDATION PLAN

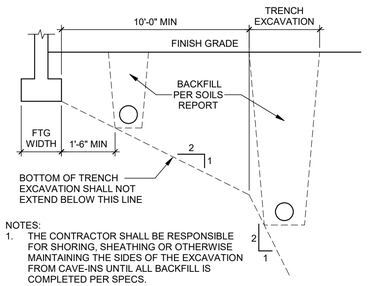
SHEET S1.01
OF ___ SHEETS
JOB NO. 1509-00

CONCRETE SPREAD FOOTING SCHEDULE

MARK	SIZE WIDTH	SIZE LENGTH	SIZE DEPTH (SEE NOTE 2)	REINFORCING TOP	REINFORCING BOTTOM	STRENGTH f'c (PSI) (5)	COMMENTS
F3x3x12	3'-0"	3'-0"	1'-0"	-	(4) #5 EACH WAY	5,000	
F6x6x18	6'-0"	6'-0"	1'-6"	(7) #5 EACH WAY	(7) #5 EACH WAY	5,000	RUN GRADE BEAM REINFORCEMENT CONT THROUGH FOOTING
F6x6x28	6'-0"	6'-0"	2'-4"	(7) #5 EACH WAY	(7) #5 EACH WAY	5,000	RUN GRADE BEAM REINFORCEMENT CONT THROUGH FOOTING

NOTES:
1. DISTRIBUTE REINF EVENLY IN FOOTING
2. INCREASE FOOTING THICKNESS, AS NEEDED, TO ACHIEVE REQUIRED FOOTING EMBED OR FROST DEPTH SHOWN ON FOUNDATION DETAILS.
3. f'c IS A 28 DAY CONCRETE STRENGTH.
4. W/CM IS 0.45 FOR FOOTINGS UNO.

1 FOOTING SCHEDULE
SCALE: NTS



NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING, SHEATHING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECS.

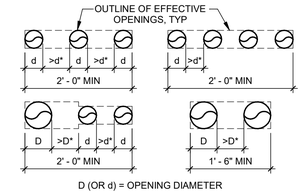
2 EXCAVATIONS PARALLEL TO FOOTING
SCALE: NTS

CONCRETE SLAB SCHEDULE

MARK	THICKNESS	REINFORCING	STRENGTH f'c (PSI) (5)	COMMENTS
6" SOG	6"	#4 BARS AT 12" OC EACH WAY	5,000	SEE NOTE 1
8" SOG	8"	#4 BARS AT 12" OC EACH WAY	5,000	SEE NOTE 1
12" SOG	12"	#4 BARS AT 8" OC EACH WAY	5,000	SEE NOTE 1

NOTES:
1. REBAR SHALL HAVE 1 1/2" CLEAR COVER FROM TOP OF SLAB ON GRADE.
2. f'c IS A 28 DAY CONCRETE STRENGTH.
3. W/CM IS 0.40 FOR SLABS UNO.

3 CONCRETE SLAB SCHEDULE
SCALE: NTS



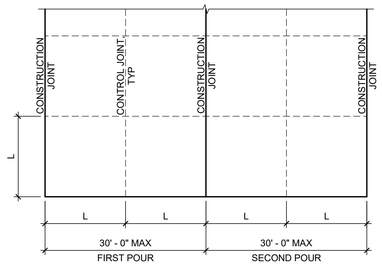
WHERE SPACING OF OPENINGS IS < 3D

NOTES:
1. ALL ABOVE CONDITIONS REQUIRE (1) #5 TOP AND BOTTOM ADDED TRIM BARS ALL AROUND THE EFFECTIVE OPENING EXTENDING 1'-6" BEYOND THE EFFECTIVE OPENING EACH SIDE TYP (DIAGONAL BARS ARE NOT REQUIRED)
2. * CLEAR DISTANCE BETWEEN OPENINGS MIN 4" CLEAR.
3. OPENINGS IN WALL OR SLAB MUST BE A MINIMUM OF 6" OR 2D EDGE DISTANCE, WHICHEVER IS GREATER.

4 MULTIPLE OPENINGS PERPENDICULAR TO SLAB AND/OR WALL
SCALE: NTS

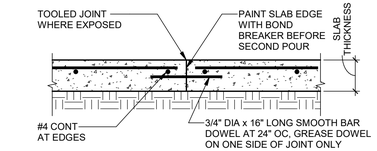
CONTROL JOINT SPACING LAYOUT

SLAB THICKNESS	MAXIMUM CLEAR DISTANCE FOR SAW CUTS (L)	COMMENTS
6"	15' - 0"	OR AS DIRECTED PER ACI 360
8"	15' - 0"	OR AS DIRECTED PER ACI 360
12"	15' - 0"	OR AS DIRECTED PER ACI 360

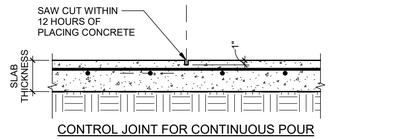


NOTES:
1. FOR CONSTRUCTION JOINT AND CONTROL JOINT, SEE 6/S2.01
2. WHERE PLAN CONFIGURATION DIFFERS FROM ABOVE, CONTRACTOR TO SUBMIT PROPOSED POUR SEQUENCE TO STRUCTURAL ENGINEER FOR APPROVAL.
3. AVOID RE-ENTRANT CORNERS AT CONSTRUCTION AND CONTROL JOINTS.

5 STANDARD METHOD OF POURING SLAB ON GRADE
SCALE: NTS



CONSTRUCTION JOINT



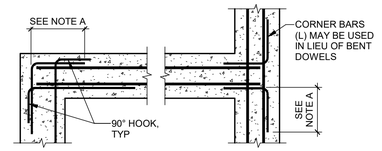
CONTROL JOINT FOR CONTINUOUS POUR

6 SLAB JOINT INFORMATION
SCALE: NTS

CONCRETE GRADE BEAM SCHEDULE

MARK	SIZE WIDTH	SIZE DEPTH	LONGITUDINAL REINFORCING TOP	LONGITUDINAL REINFORCING BOTTOM	SHEAR REINFORCING	STRENGTH f'c (PSI) (5)	COMMENTS
GB1836	1'-6"	3'-0"	(3) #5 CONT.	(3) #5 CONT.	#3 TIES AT 12" OC	5,000	-

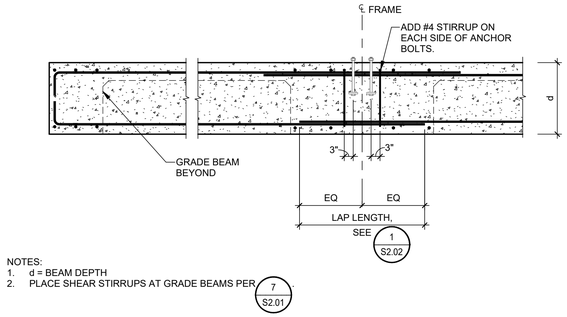
NOTES:
1. TYPICAL GRADE BEAM ELEVATION, SEE 8/S2.01
2. CONTINUE LONGITUDINAL AND SHEAR REINFORCEMENT INTO FOOTING.
3. f'c IS A 28 DAY CONCRETE STRENGTH.
4. W/CM IS 0.45 FOR FOOTINGS UNO.



CORNER INTERSECTION

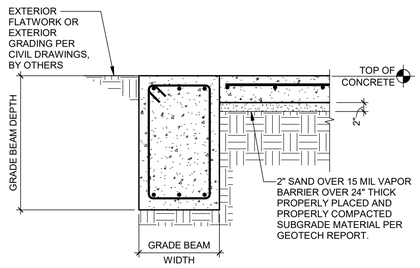
NOTES:
A. USE TENSION LAP SPLICE, SEE 1/S2.02

7 GRADE BEAM SCHEDULE
SCALE: NTS

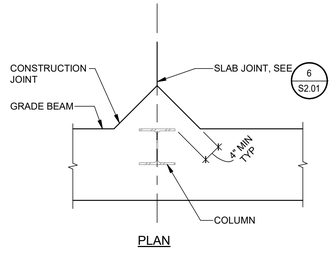


NOTES:
1. d = BEAM DEPTH
2. PLACE SHEAR STIRRUPS AT GRADE BEAMS PER 7/S2.01

8 TYPICAL GRADE BEAM ELEVATION AND FRAME COLUMN HOLD-DOWN DETAIL
SCALE: NTS

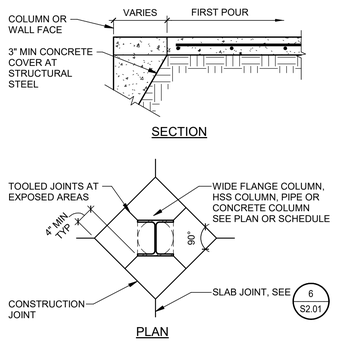


9 VAPOR BARRIER DETAIL
SCALE: NTS



PLAN

10 SLAB ISOLATION JOINT AT COLUMN
SCALE: NTS



SECTION

PLAN

11 ISOLATION JOINT AT COLUMN
SCALE: NTS

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4	ISSUED FOR PERMIT		2022/03/29
5	PERMIT REV 1		2022/07/08

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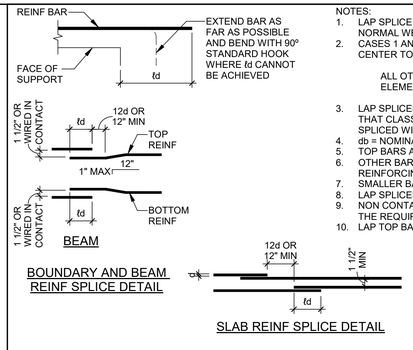
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
CONCRETE FOUNDATION - SCHEDULE

SHEET S2.01
OF ___ SHEETS
JOB NO. 1509-00



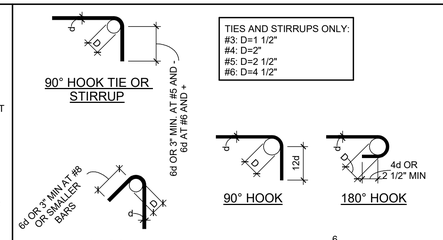
NOTES:
1. LAP SPLICE LENGTH VALUES ARE BASED ON ACI 318 CHAPTER 25, GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
2. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER TO CENTER SPACING OF THE BARS DENOTE:

   ALL OTHER ELEMENTS — CASE 1: CONCRETE COVER ≥ 1.0 db AND CENTER TO CENTER SPACING ≥ 3.0 db.

3. LAP SPLICES OF DEFORMED BARS AND DEFORMED WIRE IN TENSION SHALL BE CLASS B SPLICES EXCEPT THAT CLASS A SPLICES ARE ALLOWED WHEN ONE-HALF OR LESS OF THE TOTAL REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.
4. db = NOMINAL DIAMETER OF A BAR.
5. TOP BARS ARE HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
6. OTHER BARS ARE ALL VERTICAL REINFORCING, ALL HORIZONTAL WALL REINFORCING AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF CONCRETE BELOW BAR.
7. SMALLER BAR LAP LENGTH MAY BE USED WHEN SPLICING DIFFERENT SIZE BARS.
8. LAP SPLICES ARE NOT PERMITTED IF MECHANICAL SPLICES ARE SHOWN.
9. NON CONTACT LAP SPLICED BARS SHALL NOT BE PLACED TRANSVERSELY FURTHER APART THAN 1/5 OF THE REQUIRED LAP SPLICE LENGTH NOR 6 INCHES.
10. LAP TOP BARS AT MIDSPAN AND BOTTOM BARS AT SUPPORTS UNLESS OTHERWISE SHOWN.

CASE 1								
f'c PSI		BAR SIZE GRADE 60	#3	#4	#5	#6	#7	#8
TENSION SPLICE CLASS A AND DEVELOPMENT LENGTHS, ℓd (INCHES)	4,000	TOP	19"	25"	31"	37"	54"	62"
		OTHER	15"	19"	24"	29"	42"	48"
TENSION SPLICE CLASS B	4,000	TOP	24"	32"	40"	48"	70"	80"
		OTHER	19"	25"	31"	37"	54"	62"

1 REINFORCED BAR SPLICE LENGTH AND STRAIGHT DEVELOPMENT LENGTHS SCHEDULE, NORMAL WEIGHT CONC, ℓd
SCALE: NTS

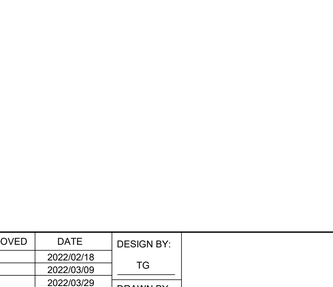


TIES AND STIRRUPS ONLY:
#3: D=1 1/2"
#4: D=2"
#5: D=2 1/2"
#6: D=4 1/2"

NOTE:
1. ALL BENDS SHALL BE MADE COLD.

D=6d FOR #3 TO #8

2 STANDARD HOOK AND TIE DETAILS
SCALE: NTS

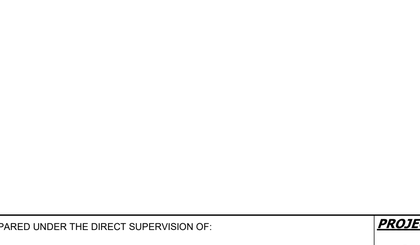


NOTES:
1. FOR STANDARD HOOK SIZES, SEE 2 / S2.02

MIN TENSION EMBED LENGTHS, (ℓdh), FOR STANDARD END HOOKS ON GRADE 60 BARS GENERAL USE (NON-SEISMIC)	
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c (psi) 4,000
#3	6"
#4	7"
#5	9"
#6	10"
#7	12"
#8	14"

NOTES:
1. SIDE COVER ≥ 2 1/2 INCHES.
2. END COVER 90° HOOKS > 2 INCHES.
3. FOR SIDE COVER < 2 1/2 INCHES AND END COVER < 2", MULTIPLY THE TABULATED VALUES BY 1.43.

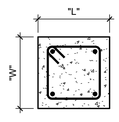
3 EMBEDMENT LENGTHS FOR HOOKED BARS
SCALE: NTS



REINFORCEMENT CLEAR COVERAGE REQUIREMENTS AT EXTERIOR CONCRETE	
CONDITION	CLEAR COVER
CONCRETE CAST AGAINST EARTH	3"
CONCRETE CAST AGAINST FORM AND LEFT EXPOSED TO EARTH OR WEATHER:	
#5 BAR AND SMALLER	1 1/2"
#6 BAR AND LARGER	2"

4 MINIMUM EXTERIOR CONCRETE COVER OVER REINFORCING
SCALE: NTS

CONCRETE PIER SCHEDULE							
MARK	WIDTH "W"	LENGTH "L"	REINFORCING VERTICAL	REINFORCING HORIZONTAL	STRENGTH f'c (PSI)	PIER TYPE	COMMENTS
P1.5x1.5x24	1'-6"	1'-6"	(4)#5	#3 TIES AT 12" OC AND (3) #3 TIES IN TOP 6"	4,000	A	-
P2x2x10	2'-0"	2'-0"	(4)#5	#3 TIES AT 12" OC AND (3) #3 TIES IN TOP 6"	4,000	A	-



NOTES:
1. FOR REINFORCING MINIMUM CLEARANCES, SEE 4 / S2.02
2. f'c IS A 28 DAY CONCRETE STRENGTH.
3. W/CM IS 0.45 FOR COLUMNS/PIERS UNO.

5 CONCRETE PIER SCHEDULE AND SECTIONS
SCALE: NTS

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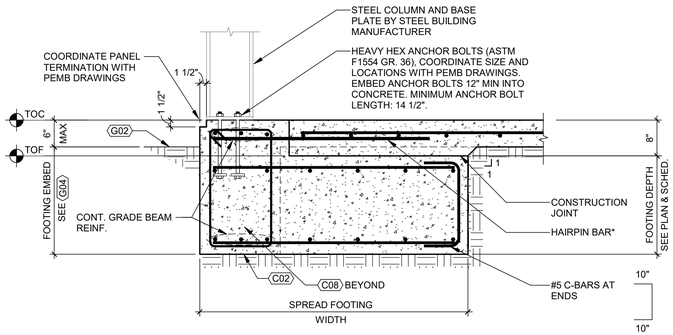
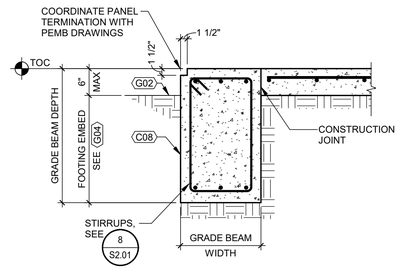
SHEET CONTENT:
CONCRETE REINFORCING

SHEET S2.02 OF ___ SHEETS

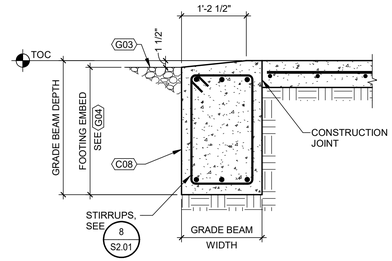
JOB NO. 1509-00



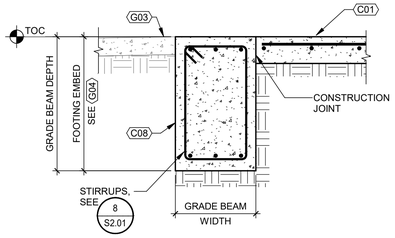
1 EXTERIOR COLUMN DETAIL
SCALE: NTS



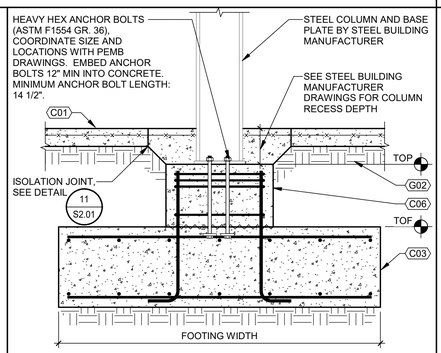
2 EXTERIOR GRADE BEAM DETAIL
SCALE: NTS



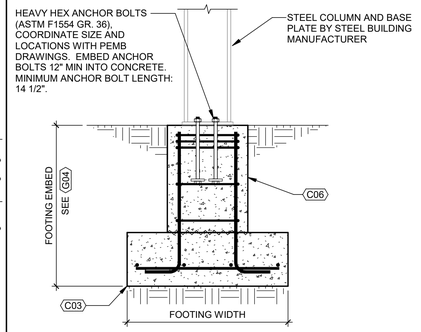
3 EXTERIOR GRADE BEAM DETAIL AT OVERHEAD DOOR
SCALE: NTS



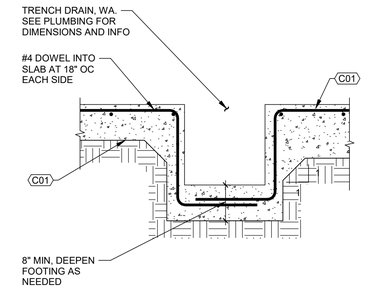
4 EXTERIOR GRADE BEAM AT MAN DOOR DETAIL
SCALE: NTS



5 INTERIOR COLUMN AT FOOTING
SCALE: NTS



6 CANOPY COLUMN AT FOOTING WITH PIER
SCALE: NTS



7 TRENCH DRAIN DETAIL
SCALE: NTS

SHEET NOTES

A. SEE SHEETS S0.00 FOR GENERAL NOTES, MATERIAL SPECIFICATION AND SPECIAL INSPECTION NOTES.

B. THE DIMENSIONS SHOWN HERE APPLY TO STRUCTURAL ELEMENTS ONLY, SEE PRE-ENGINEERED METAL BUILDING DRAWINGS FOR ANY DIMENSIONS NOT SHOWN.

C. SCHEDULES AND TYPICAL DETAILS, SEE:
CONCRETE: SEE S2.00's SERIES SHEETS

5 D. 2" x 2" x18GA MIN ANGLE IS REQUIRED. FOR ACTUAL SIZE AND SHAPE REFER TO ARCHITECTURAL DRAWINGS.

E. SEISMIC SPLAY WIRES SHALL BE SECURED TO THE MAIN FRAMING MEMBER WITHIN 2" OF THE CROSS FRAMING INTERSECTION AND SPLAYED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. SPLAY WIRES SHALL BE PLACED AT 12'-0" OC IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6'-0" OF EACH WALL. SEISMIC SPLAY WIRES SHALL MAINTAIN A MINIMUM OF 6" CLEAR FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL FORCES.

F. COMPRESSION POSTS SHALL BE LOCATED WITH IN 2" OF EVERY SPLAY WIRE CONNECTION. FOR SIZE 9/S3.01.

G. VERTICAL HANGER WIRES SHALL NOT HANG MORE THAN 1 IN 6 OUT OF PLUMB UNLESS COUNTERSLOPING WIRES ARE PROVIDED. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT.

H. MECHANICAL AND LIGHT FIXTURES SHALL BE INDEPENDENTLY SUPPORTED AND BRACED PER CISCA GUIDELINES FOR SEISMIC RESTRAINT FOR DIRECT HUNG SUSPENDED CEILING ASSEMBLIES.

I. THE SUSPENDED CEILING ASSEMBLY SHALL NOT SERVE AS A BRACE FOR PARTITIONS.

SUSPENDED LAY-IN CEILING NOTES:

1. MAIN RUNNER TO BE DESIGNED AND ENGINEERED BY CEILING MANUFACTURER.
2. CROSS RUNNER AND ITS CONNECTIONS TO MAIN RUNNER TO BE DESIGNED AND ENGINEERED BY CEILING MANUFACTURER
3. HANGER WIRES SHALL BE 12GA WIRES SHALL BE LOCATED WITHIN 8" OF END OF RUNNERS AND AT 4'-0" OC ALONG MAIN RUNNER.
4. SEISMIC SPLAY WIRES SHALL BE (4) 12 GA WIRES, COORDINATE WITH NOTE B ABOVE.
5. LAY-IN TILES TO WEIGHT A MAXIMUM OF 1PSF. COORDINATE SIZE AND TYPE WITH ARCHITECTURAL.
6. PROVIDE PINS BY CEILING MANUFACTURER IN THE ENDS OF MAIN RUNNER AND CROSS RUNNER AT TWO ADJACENT WALLS. AT OTHER TWO WALLS CEILING MANUFACTURE TO PROVIDE TIES BETWEEN ADJACENT CROSS RUNNERS AND MAIN RUNNERS TO PREVENT SPREADING.

KEYNOTE SYMBOL LEGEND:

WA WHERE APPLICABLE

* DENOTES ELEMENT SIZE AND INFORMATION IS PROVIDED ON PLAN AND/OR APPLICABLE SCHEDULES.

X## KEYNOTES

C01 REINFORCED CONCRETE SLAB ON GRADE *

C02 REINFORCED CONCRETE SPREAD FOOTING *

C03 REINFORCED CONCRETE CONTINUOUS FOOTING *

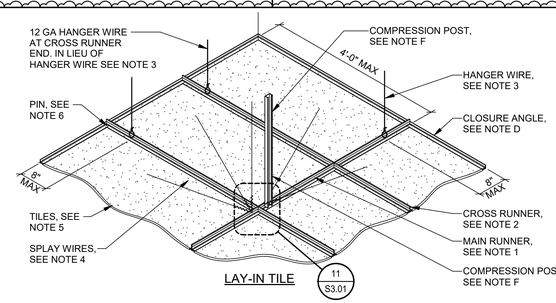
C06 REINFORCED CONCRETE PIER *

C08 REINFORCED CONCRETE GRADE BEAM *

G02 ALL FOUNDATION SUB-GRADE, BUILDING PAD, AND SITE GRADE INFORMATION TO BE COORDINATED WITH THE GEOTECHNICAL ENGINEER, AND CIVIL ENGINEER.

G03 FINISH GRADE OR EXTERIOR SLAB TO BE COORDINATED WITH CIVIL ENGINEER, BY OTHERS.

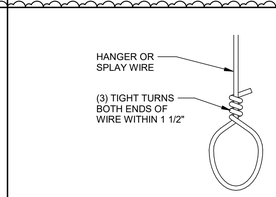
G04 2'-6" MINIMUM FOOTING EMBEDMENT.



8 SUSPENDED CEILING
SCALE: NTS

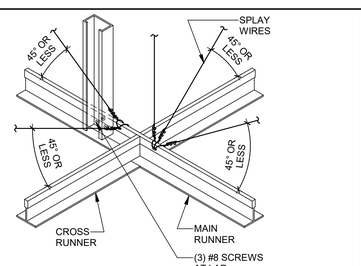
COMPRESSION POST SCHEDULE	
POST LENGTH	POST SIZE
0'-0" TO 5'-0"	250S137-43
5'-0" TO 10'-0"	362S137-33
10'-0" TO 15'-0"	400S137-33

9 SEISMIC STRUT BETWEEN FLUTES
SCALE: NTS



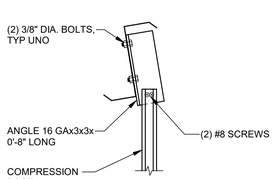
NOTES:
1. THIS DETAILS APPLIES TO EACH END OF EACH WIRE.

10 END OF WIRE
SCALE: NTS

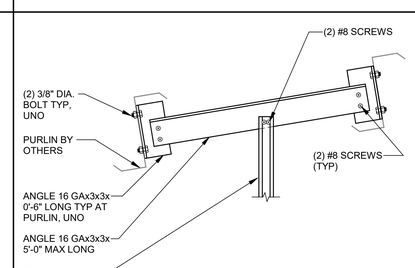


NOTES:
1. LATERAL BRACING 4'-0" OR LESS FROM WALL AND 12'-0" OC MAX

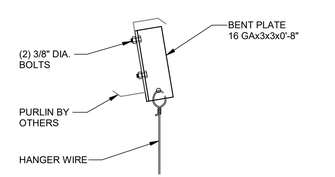
11 CONNECTION AT CORNERS
SCALE: NTS



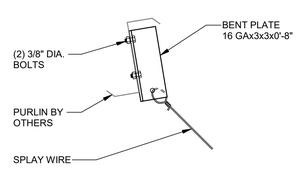
12 TYPICAL SEISMIC STRUT CONNECTION
SCALE: NTS



13 SEISMIC STRUT BETWEEN PURLINS
SCALE: NTS



14 TYPICAL HANGER WIRE CONNECTION
SCALE: NTS



15 TYPICAL SPLAY WIRE CONNECTION
SCALE: NTS

5

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/09
4	ISSUED FOR PERMIT		2022/03/29
5	PERMIT REV 1		2022/07/08

DESIGN BY: TG
DRAWN BY: PW
CHECKED BY: JC

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REGISTERED PROFESSIONAL ENGINEER JOSEPH L. CHAPMAN STRUCTURAL STATE OF CALIFORNIA
EXP: 09/30/23
2022/07/08

PREPARED UNDER THE DIRECT SUPERVISION OF:

DATE

A.I.A. NO.

REG EXP.

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
FOUNDATION DETAILS

SHEET S3.01
OF ___ SHEETS
JOB NO. 1509-00

GENERAL NOTES

1. WORKMANSHIP, MATERIALS AND INSTALLATIONS SHALL CONFORM TO LATEST EDITIONS OF THE CBC, IFC, IMC, IPC, AND NEC, ETC., AS WELL AS APPLICABLE STATE AND LOCAL CODES, TRADE ASSOCIATION STANDARDS AND MANUFACTURER'S STANDARDS AND AMENDMENTS AS ADOPTED BY THE LOCAL JURISDICTION OR WHICHEVER IS MORE STRINGENT.

2. IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THESE CONTRACT DOCUMENTS, ALL SUBCONTRACTORS SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR AND SUPERVISION REQUIRED TO COMPLETE THEIR WORK. ALL WORK SHALL BE PERFORMED IN A GOOD WORKMANLIKE MANNER.

3. ALL WORK SHALL BE DONE BY SUBCONTRACTORS DULY LICENSED BY THE LOCAL JURISDICTION. ALL WORK TO BE DONE PER THE LATEST EDITION OF THE APPLICABLE NATIONAL, STATE, AND LOCAL CODES.

4. SUBCONTRACTORS ARE REQUIRED TO CAREFULLY EXAMINE THE PROJECT CONSTRUCTION DOCUMENTS SO THAT ALL WORK WILL BE PROPERLY COORDINATED. ANY DISPUTE RESULTING FROM NON-COORDINATION REQUIREMENTS SHALL BE SETTLED BY MBA ENERGY & INDUSTRIAL AT NO ADDITIONAL COST TO THE OWNER OR MBA ENERGY & INDUSTRIAL AND WITHOUT REGARD TO WHOSE MATERIAL WAS INSTALLED FIRST, BUT AS REQUIRED FOR PROPER FUNCTIONING OF THE CONFLICTING SYSTEMS AS APPROVED BY MBA ENERGY & INDUSTRIAL.

5. SUBCONTRACTORS ARE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. SUBCONTRACTORS SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, EXCAVATION PROTECTION, SCAFFOLDING, JOB SITE SAFETY, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, OWNER, OR ENGINEER SHALL NOT INCLUDE INSPECTION OF ABOVE ITEMS.

6. SUBCONTRACTORS SHALL NOT USE REPRODUCTIONS OF THE CONTRACT DOCUMENTS AS SHOP DRAWINGS, OR THE BASIS OF SHOP DRAWINGS, WITHOUT WRITTEN AUTHORIZATION BY MBA ENERGY & INDUSTRIAL. MBA ENERGY & INDUSTRIAL ASSUMES NO LIABILITY AS THE RESULT OF THE USE OF REPRODUCTIONS OF THE CONTRACT DOCUMENTS FOR SHOP DRAWINGS.

7. SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ETC., PRIOR TO BEGINNING CONSTRUCTION AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES. PROCEEDING WITH WORK SHALL CONSTITUTE ACCEPTANCE BY THE SUBCONTRACTOR THAT ALL CONDITIONS ARE CORRECT AND THE SUBCONTRACTOR SHALL ASSUME FULL RESPONSIBILITY.

8. DO NOT SCALE DRAWINGS. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL INFORMATION ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, SUBCONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM MBA ENERGY & INDUSTRIAL BEFORE CONTINUING CONSTRUCTION. ALL MEASUREMENTS ARE SUBJECT TO VERIFICATION IN THE FIELD BY SUBCONTRACTORS. SUBCONTRACTORS SHALL NOTIFY MBA ENERGY & INDUSTRIAL OF ANY DISCREPANCIES PRIOR TO FABRICATION OR CONSTRUCTION.

9. SUBCONTRACTORS SHALL VISIT THE SITE AND INFORM THE ARCHITECT OF ANY CONDITIONS THAT MAY AFFECT THE EXECUTION OF THE WORK PRIOR TO COMMENCING ANY AFFECTED WORK.

10. SUBCONTRACTORS TO VERIFY ALL INFORMATION ON PROJECT CONSTRUCTION DOCUMENTS AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT PRIOR TO SUBMISSION OF BIDS OF ANY AFFECTED WORK. FAILURE TO FULLY REVIEW ALL DRAWINGS IS NOT GROUNDS FOR CHANGE ORDERS.

11. ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS UNLESS SPECIFICALLY NOTED TO THE CONTRARY. NOTIFY THE ARCHITECT IF MANUFACTURER'S REQUIREMENTS ARE MORE STRINGENT.

12. ALL MATERIALS AND EQUIPMENT FURNISHED BY SUBCONTRACTORS SHALL BE NEW AND FREE FROM DEFECTS.

13. MATERIALS, EQUIPMENT, ETC., NOT INDICATED ON DRAWINGS OR SPECIFIED HEREIN, BUT REQUIRED FOR SUCCESSFUL AND EFFICIENT COMPLETION OF THE INSTALLATION, SHALL BE HELD TO BE IMPLIED AND SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER OR THE ARCHITECT.

14. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR MAINTAINING THE BUILDING AND SITE, CLEANING AND PROVIDING ALL AND ANY SAFETY PROVISIONS TO ENSURE THE PUBLIC SAFETY ON A DAILY BASIS.

15. DAMAGED WORK MUST BE REPLACED AT NO ADDITIONAL COST TO THE OWNER OR THE ARCHITECT.

16. SUBCONTRACTORS SHALL PROVIDE BACKING BEHIND FINISH WALL AND CEILING SURFACES FOR SUPPORT AND ATTACHMENT OF CASEWORK, SHELVING, MIRRORS, PEGBOARDS, COUNTERS, TOILET PARTITIONS AND ACCESSORIES ETC.

17. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM OR WHICHEVER IS MORE STRINGENT.

18. ESTABLISH AND VERIFY ALL OPENING AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PRIOR TO CONSTRUCTION. CONFIRM WITH OWNER J-BOXES AND CONDUITS REQUIRED FOR FIRE DETECTION AND SECURITY SYSTEM.

19. NOTIFY THE ARCHITECT OF CONFLICT IN DETAILS OR GENERAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT AND TO APPLICABLE CODES. DETAILS NOTED AS "TYPICAL" SHALL APPLY UNLESS NOTED OTHERWISE.

20. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A LICENSED PROFESSIONAL ENGINEER/ARCHITECT REGISTERED WITH THE AUTHORITY HAVING JURISDICTION.

21. IN CASE OF PLAN LOCATION CONFLICTS BETWEEN DISCIPLINES, NOTIFY THE ARCHITECT.

22. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE SUBCONTRACTORS SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO; BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY ARCHITECT OR ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

23. THESE DOCUMENTS ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN ORIGINALLY ISSUED UNLESS AUTHORIZED IN WRITING BY THE ARCHITECT OF RECORD.

24. SHOP DRAWINGS ARE TO COMPLIMENT AND SUPPLEMENT CONSTRUCTION DOCUMENTS. WHEN CONFLICTING INFORMATION IS PROVIDED IN SHOP DRAWINGS AND CONSTRUCTION DOCUMENTS, NOTIFY THE ARCHITECT PRIOR TO FABRICATION. REVIEW OF SHOP DRAWINGS BY ARCHITECT DOES NOT RELIEVE SUBCONTRACTOR OF RESPONSIBILITY FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS.

25. THE ARCHITECT RESERVES THE RIGHT TO DIRECT REMOVAL AND REINSTALLATION OF WORK WHICH DOES NOT, IN THE OPINION OF THE ARCHITECT, MAINTAIN STANDARDS AND WORKMANSHIP OF A CRAFT.

26. MANUALLY OPERATED EDGE OR SURFACE MOUNTED BOLTS (FLUSH AND SURFACE) ARE PROHIBITED (CBC).

27. ON SITE FABRICATED SHEET METAL WORK SHALL CONFORM TO LATEST S.M.A.C.N.A. STANDARDS.

28. ALL DRYWALL PARTITIONS ARE DIMENSIONED FINISH DRYWALL FACE TO FINISH DRYWALL FACE, UNLESS OTHERWISE NOTED.

29. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPE, BED, WITH LEVEL 4 FINISH UNLESS NOTED OTHERWISE.

30. PRIOR TO START OF CONSTRUCTION, IDENTIFY GAS MAIN AND SHUTDOWN, ELECTRICAL MAIN AND SHUTDOWN, WATER MAIN AND SHUTDOWN, AND ALL OTHER EMERGENCY UTILITY SHUTDOWN DEVICES. POST A PLAN OF ALL LOCATIONS WITH EMERGENCY NUMBERS OF TRADES ASSOCIATED WITH SUCH UTILITIES. SITE SHALL BE BLUE-STAKED BEFORE START OF U.G. WORK.

31. SEAL ALL CRACKS AROUND STRUCTURAL MEMBERS, BRACING, PIPES, CONDUITS, DUCTS AND BETWEEN WALLS AND ROOF DECK WHERE AIR INFILTRATIONS BETWEEN CONDITIONED AND NON-CONDITIONED (EXTERIOR) SPACES MAY OCCUR (I.E. SEAL THE BUILDING ENVELOPE).

32. CONCEAL ALL PIPING IN DRYWALL, WHERE PIPING IS TOO LARGE, WALLS ARE TO BE FURRED-OUT MINIMUM TO CONCEAL PIPING. INFORM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

33. CONCRETE SUBCONTRACTOR SHALL ENSURE FLATNESS OF BUILDING SLAB. MAXIMUM DEVIATION 5/8" TOLERANCE PER 10'-0" DISTANCE

MATERIAL INDICATIONS

- CONCRETE
- BRICK
- CONC. MASONRY UNITS (CMU)
- RIGID INSULATION
- BATT INSULATION
- ACOUSTICAL TILE
- GYPSUM BOARD
- PLASTER ON METAL LATH
- FINISH WOOD
- CONTINUOUS WOOD
- BLOCKING / SHIM
- PLYWOOD
- EARTH
- SAND/MORTAR
- STEEL
- ALUMINUM
- STONE
- GRAVEL
- SEALANT
- BACKER ROD & SEALANT

ARCHITECTURAL SYMBOLS

- A — WINDOW AND LOUVER TYPE
- L8, 1-4 — PARTITION TYPE
- 101 — DOOR DESIGNATION
- 01/A101 — EXTERIOR ELEVATION
- 1/A101 — INTERIOR ELEVATION
- 01/A101 — DETAIL MARKER
- 1 — REVISION
- N — NORTH ARROW
- KEYED NOTE
- 01 / A1.01 — BUILDING SECTION
- 01/A1.01 — WALL SECTION DETAIL CUT
- WORK POINT/ TOP OF FRAMING OR STEEL
- PROPERTY LINE POINT
- ENLARGED DETAIL KEY/REFERENCE — 01 / A1.01
- **ROOM NAME** 100 — ROOM NAME & ROOM NUMBER

SHEET NUMBER	SHEET NAME / CONTENT

CIVIL DRAWINGS

C1.01	TITLE SHEET
C1.02	SHEET INDEX/SITE PLAN
C1.03	EXISTING DEMOLITION SITE PLAN
C1.04	GRADING IMPROVEMENT PLAN
C1.05	GRADING IMPROVEMENT PLAN
C1.06	FENCING/UTILITY PLAN
C1.07	HANDICAP PARKING LOT BLOW-UP DETAIL
C1.08	GRADING AND FINISH SURFACE SECTION
C1.09	WATER, SANITARY SEWER, PAVING AND SITE GRADING DETAIL SHEET
C1.10	SOLID WASTE ENCLOSURE PLAN
C1.11	WATER AND SANITARY SEWER DETAIL SHEET
C1.12	CHAIN LINK FENCE DETAIL SHEET
C1.13	MISCELLANEOUS DETAIL SHEET
C1.14	SOLID WASTE ENCLOSURE SECTIONS AND DETAILS
C1.15	EROSION CONTROL PLAN AND CONTRACTOR STAGING AREA
C1.16	EROSION CONTROL DETAILS
C1.17	HORIZONTAL CONTROL PLAN
C2.01	EVAN HEWES HIGHWAY WATER AND SANITARY SEWER PLAN AND PROFILE SHEET
C2.02	STORM WATER DRAINAGE SWALE AND SECTIONS
C2.03	WATER AND SEWERDETAIL SHEET
C2.04	WATER, SEWER AND DEPRESSED CURB & GUTTER DETAIL SHEET
C2.05	TRAFFIC CONTROL PLAN
C2.06	SIGNAGE AND STRIPING PLAN

SHEET NUMBER	SHEET NAME / CONTENT

ARCHITECTURAL DRAWINGS

A0.00	COVER
A0.01	DRAWINGS INDEX / SYMBOLS & ABBREVIATIONS
A0.02	ADA REQUIREMENTS
A0.03	ADA REQUIREMENTS
A0.04	ADA REQUIREMENTS
A0.05	ADA REQUIREMENTS
A0.10	LIFE SAFETY PLAN
A0.21	THERMAL & MOISTURE PROTECTION

SHEET NUMBER	SHEET NAME / CONTENT

ARCHITECTURAL DRAWINGS

A1.00	OVERALL SITE PLAN
A1.10	SITE PLAN DETAILS
A3.00	FLOOR PLAN - DIMENSIONS
A3.10	FLOOR PLAN - ANNOTATIONS
A3.20	ARCHITECTURAL FOUNDATION PLAN
A3.30	ENLARGED PLANS
A4.00	REFLECTED CEILING PLAN
A5.00	EXTERIOR ELEVATIONS
A6.00	BUILDING SECTIONS
A6.10	WALL SECTIONS
A7.00	INTERIOR ELEVATIONS
A7.20	MILLWORK DETAILS
A9.00	FINISH FLOOR PLAN & SCHEDULES
A9.10	FINISH DETAILS
A9.20	DOOR, WINDOW, & HARDWARE SCHEDULES
A9.30	DOOR & WINDOW DETAILS
A9.50	PARTITION TYPES
A9.60	UL ASSEMBLIES
A9.80	CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES
A9.81	CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES
A9.82	CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES

SHEET NUMBER	SHEET NAME / CONTENT

STRUCTURAL DRAWINGS

S0.00	STRUCTURAL LEGENDS AND SPECS
S1.01	FOUNDATION PLAN
S2.01	CONCRETE FOUNDATION - SCHEDULE
S2.02	CONCRETE REINFORCING
S3.01	FOUNDATION DETAILS

SHEET NUMBER	SHEET NAME / CONTENT

MECHANICAL DRAWINGS

M0.02	HVAC - TITLE 24 SHEETS
M0.03	HVAC - TITLE 24 SHEETS
M0.04	HVAC - TITLE 24 SHEETS
M4.01	HVAC DETAILS
M0.00	HVAC COVER SHEET
M0.01	HVAC CALCULATIONS
M2.11	HVAC PLAN
M3.00	HVAC SCHEDULES
M4.00	HVAC DETAILS

SHEET NUMBER	SHEET NAME / CONTENT

ELECTRICAL DRAWINGS

E0.00	ELECTRICAL COVER SHEET
E0.01	TITLE 24 ENERGY COMPLIANCE FORMS
E0.02	TITLE 24 ENERGY COMPLIANCE FORMS
E0.03	TITLE 24 ENERGY COMPLIANCE FORMS
E1.00	ELECTRICAL SITE PLAN
E1.11	LIGHTING PLAN
E2.11	POWER PLAN
E3.00	PANEL SCHEDULES
E4.00	ONE-LINE DIAGRAM & DETAILS

SHEET NUMBER	SHEET NAME / CONTENT

PLUMBING DRAWINGS

P0.00	PLUMBING COVER SHEET
P1.11	PLUMBING WASTE & VENT PLAN
P2.11	PLUMBING WATER & GAS PLAN
P3.00	PLUMBING SCHEDULES
P4.00	PLUMBING DETAILS

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT — MAY 2023 RENEWAL DATE — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

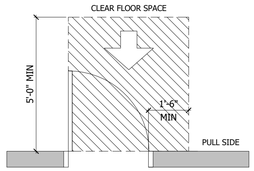
SEELEY FIRE STATION & COOLING CENTER

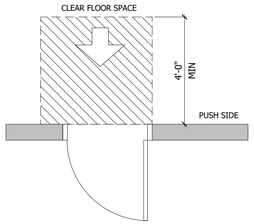
SHEET CONTENT:

DRAWINGS INDEX / SYMBOLS & ABBREVIATIONS

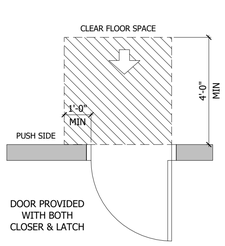
SHEET A0.01 OF ___ SHEETS

JOB NO. 1509-00

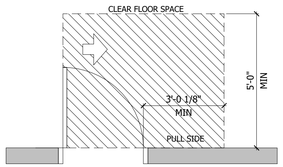




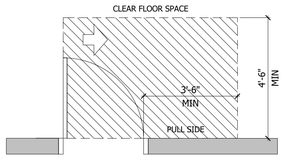
FRONT APPROACH - SWINGING DOORS

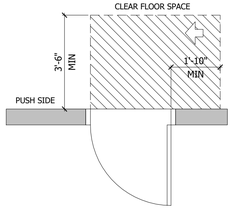


DOOR PROVIDED WITH BOTH CLOSER & LATCH

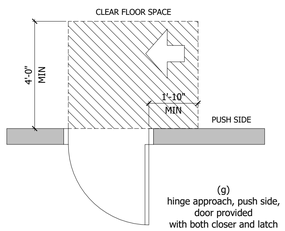


LATCH SIDE APPROACH - SWINGING DOORS

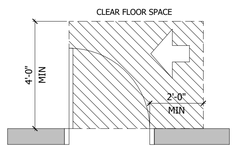




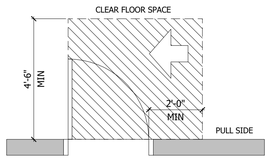
HINGE SIDE APPROACH - SWINGING DOORS



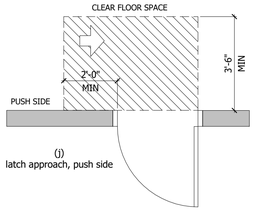
(g)
hinge approach, push side, door provided with both closer and latch



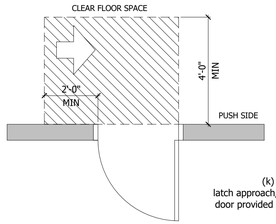
(h)
latch approach, pull side



(i)
latch approach, pull side, door provided with closer

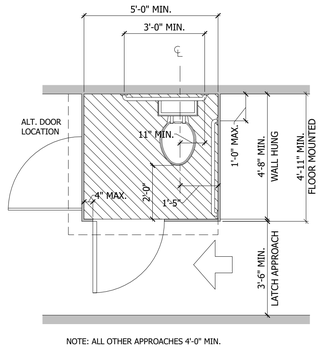


(j)
latch approach, push side



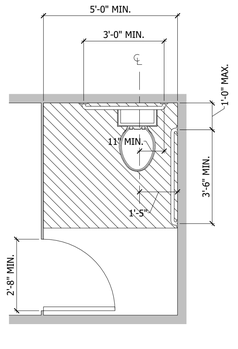
(k)
latch approach, push side, door provided with closer

SWINGING DOORS AND GATES - SECTION 404.2.4.1

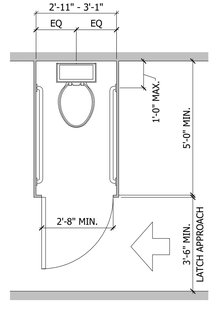


NOTE: ALL OTHER APPROACHES 4'-0" MIN.

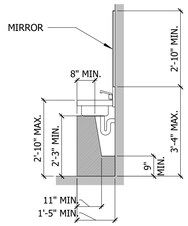
STANDARD STALLS



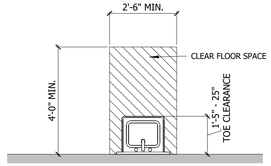
ALTERNATE STALLS



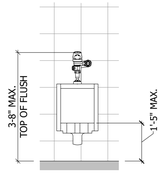
SIZE - SECTION 604.8.1.1



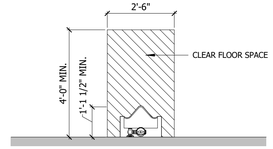
NOTE: EQUIPMENT NOT PERMITTED IN SHADED AREA. MUST COMPLY WITH 305 AND 306 OF THE TAS



NOTE: HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS. CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM PER 606.4.



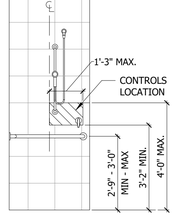
NOTE: URINALS SHALL HAVE A TAPERED ELONGATED RIM



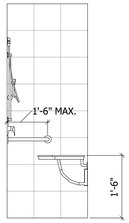
NOTE: URINALS INSTALLED IN ALCOVES DEEPER THAN 24" REQUIRE A CLEAR FLOOR SPACE 3'-0" WIDE

CLEAR FLOOR SPACE & HEIGHT - SECTION 606.2 - 606.5

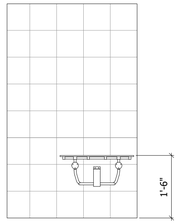
URINALS - SECTION 605.2



CONTROL WALL



END WALL



SEAT WALL

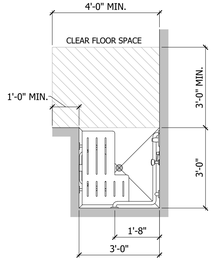


FIGURE 608.2.1

NOTE: Y= PROVIDE A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER.

TRANSFER TYPE SHOWER COMPARTMENTS - SECTION 608.2.1, 608.5.1, 608.5.2 & 608.5.3

DOORS

SECTION 404.2.4.1 - Maneuvering Clearances at Manual Swinging Doors and Gates
SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.1

SECTION 404.2.3 - CLEAR WIDTH
DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32" MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24" IN DEPTH SHALL PROVIDE A CLEAR OPENING OF 36" MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34" ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34" AND 80" ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.

SECTION 404.2.5 - THRESHOLDS
THRESHOLDS, IF PROVIDE AT DOORWAYS, SHALL BE 1/2" HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 302 AND 303.

SECTION 404.2.7 - DOOR AND GATE HARDWARE
HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITIONS, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

SECTION 404.2.8.1 - DOOR CLOSERS AND GATE CLOSERS
DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

SECTION 404.2.9 - DOOR AND GATE OPENING FORCE
THE MAXIMUM FORCE PERTAINS TO THE CONTINUOUS APPLICATION OF FORCE NECESSARY TO FULLY OPEN A DOOR. NOT THE INITIAL FORCE NEEDED TO OVERCOME THE INERTIA OF THE DOOR. IT DOES NOT APPLY TO THE FORCE REQUIRED TO RETRACT BOLTS OR TO DISENGAGE OTHER DEVICES USED TO KEEP THE DOOR IN A CLOSED POSITION.

TOILET AND SHOWER STALLS

SECTION 604.8.1.1 - TOILET STALLS
WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO TEH SIDE WALL, AND 59 INCHES DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.

SECTION 605.2 - URINALS HEIGHT AND DEPTH
URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 1/2 INCHES DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHAL COMPLY WITH 309.

SECTION 606.2 & 606.3 - LAVATORIES AND SINKS
LAVATORIES AND SINKS SHALL COMPLY WITH 606. A CLEAR FLOOR SPACE COMPLYING WITH 305. POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

SECTION 608.5.1 - TRANSFER TYPE SHOWER COMPARTMENTS
IN TRANSFER TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE SIDE WALL OPPOSITE THE SEAT 38 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE SHOWER FLOOR AND SHALL BE LOCATED ON THE CONTROL WALL 15 INCHES MAXIMUM FROM THE CENTERLINE OF THE SEAT TOWARD THE SHOWER OPENING.

SECTION 608.5.2 - STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS
IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE BACK WALL ADJACENT TO THE SEAT WALL AND SHALL BE LOCATED 27 INCHES MAXIMUM FROM TEH SEAT WALL.

SECTION 608.5.3 - ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS
IN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ON THE SIDE WALL ADJACENT TO THE SEAT 27 INCHES MAXIMUM FROM THE SIDE WALL BEHIND THE SEAT OR SHALL BE LOCATED ON THE BACK WALL OPPOSITE THE SEAT 15 INCHES MAXIMUM, LEFT OR RIGHT, OF THE CENTERLINE OF THE SEAT. WHERE A SEAT IS NOT PROVIDED, THE CONTROLS. FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE SIDE WALL FARTHEST FROM THE COMPARTMENT ENTRY.

SIGNAGE

SECTION 216.1 - BUILDING SIGNS
SIGNS WHICH DESIGNATE PERMANENT ROOMS AND SPACES SHALL COMPLY WITH ALL SECTIONS OF SECTIONS 216 AND 703. ELEMENTS AND SPACES OF ACCESSIBLE FACILITIES WHICH SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY ARE PARKING SPACES AS RESERVED FOR INDIVIDUALS WITH DISABILITIES, ACCESSIBLE PASSENGER LOADING ZONES, ACCESSIBLE ENTRANCES WHEN NOT ALL ARE ACCESSIBLE, AND ACCESSIBLE TOILET AND BATHING FACILITIES WHEN NOT ALL ARE ACCESSIBLE.

SECTION 216.2 & 216.3 - BUILDING SIGNS
SIGNS WHICH DESIGNATE PERMANENT ROOMS AND SPACES AND OTHER SIGNS WHICH PROVIDE DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDING SHALL COMPLY WITH ALL SECTIONS OF 703.5. (BUILDING DIRECTORIES, MENUS, AND ALL OTHER SIGNS WHICH ARE TEMPORARY ARE NOT REQUIRED TO COMPLY.)

SECTION 216.6 - ENTRANCES
WHERE NOT ALL ENTRANCES COMPLY WITH 404, ENTRANCES COMPLYING WITH 404 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. DIRECTIONAL SIGNS COMPLYING WITH 703.5 THAT INDICATE THE LOCATION OF THE NEAREST ENTRANCE COMPLYING WITH 404 SHALL BE PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH 404.

SECTION 703.1 - SIGNS
SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.

SECTION 703.2.1 & 703.3- RAISED AND BRAILLED CHARACTERS
RAISED CHARACTERS SHALL BE 1/32" MINIMUM ABOVE THEIR BACKGROUND. CHARACTERS SHALL BE UPPERCASE, SANS SERIF, AND SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. BRAILLE CHARACTERS SHALL BE CONTRACTED (GRADE 2).
CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8"MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I"

SECTION 703.2.4 - CHARACTER PROPORTION
CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

SECTION 703.5.1 - FINISH AND CONTRAST
CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND

NOTE: THESE DRAWINGS ARE FOR GENERAL MOUNTING CLEARANCE REFERENCE. SEE PLANS FOR CONFIGURATIONS. ALL DIMENSIONS SHALL CONFORM TO ADA STANDARDS.

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M HOLT — MAY 2023 RENEWAL DATE — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ADA REQUIREMENTS

SHEET
A0.02
OF ___ SHEETS
JOB NO.
1509-00

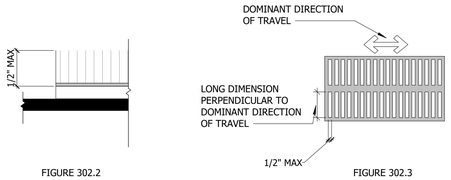


FIGURE 302.2 FIGURE 302.3

CARPET AND OPENINGS - SECTION 302.2 AND 302.3

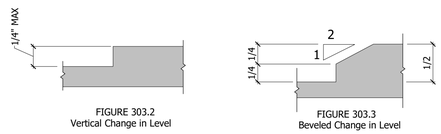
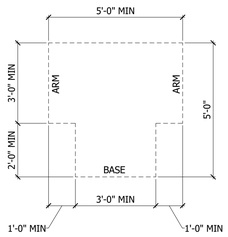


FIGURE 303.2
Vertical Change in Level

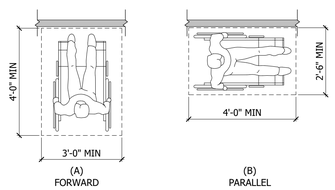
FIGURE 303.3
Beveled Change in Level

CHANGES IN LEVEL - SECTION 303.2 AND 303.3



TURNING SPACE - SECTION 304.3.2

SIZE - CLEAR FLOOR OR GROUND SPACE - SECTION 305.3



POSITION OF CLEAR FLOOR OR GROUND SPACE - SECTION 305.5

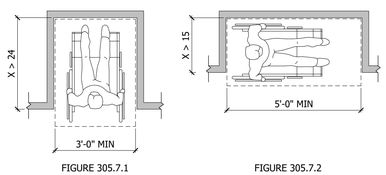


FIGURE 305.7.1 FIGURE 305.7.2

FORWARD AND PARALLEL APPROACH - SECTION 305.7.1 & 305.7.2

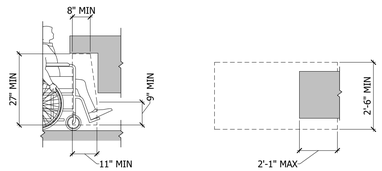


FIGURE 306.3

(a) elevation (b) plan

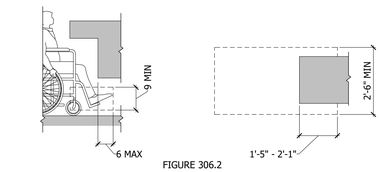


FIGURE 306.2

(a) elevation (b) plan

TOE AND KNEE CLEARANCE - SECTION 306.2 & 306.3

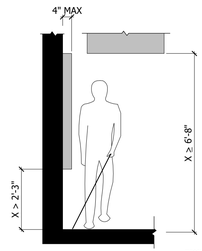
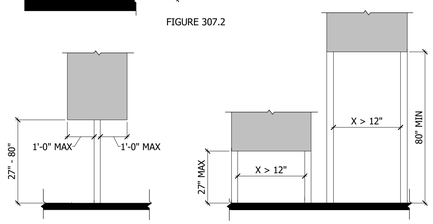


FIGURE 307.2



(a) (b)

FIGURE 307.3

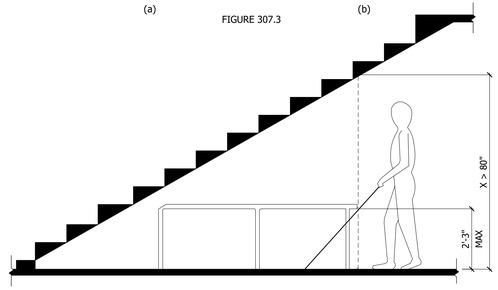
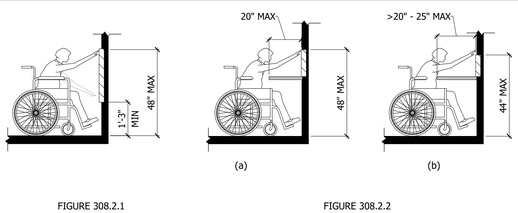


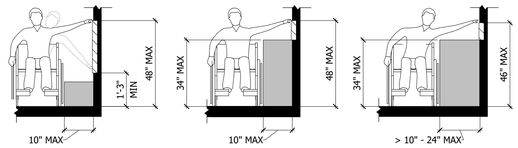
FIGURE 307.4

PROTRUDING OBJECTS - SECTION 307.2 & 307.3 & 307.4



(a) (b)

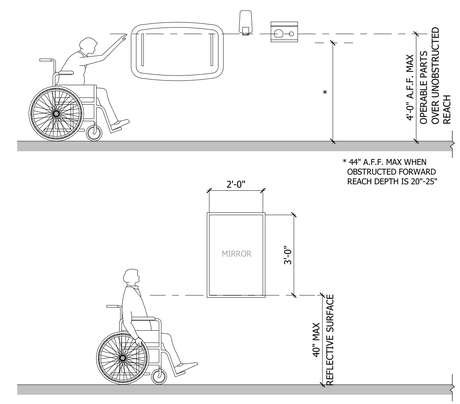
FIGURE 308.2.1 FIGURE 308.2.2



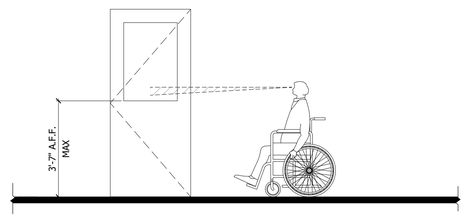
(a) (b)

FIGURE 308.3.1 FIGURE 308.3.2

REACH RANGES - SECTION 308.2.1, 308.2.2, 308.3.1 & 308.3.2



MIRRORS - SECTION 603.3 - RESTROOM ACCESSORIES



VISION LIGHTS - SECTION 404.2.11

BUILDING BLOCKS

SECTION 302.1 - GENERAL
FLOOR OR GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 302.

SECTION 302.2 - CARPET
CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.

SECTION 302.3 - OPENINGS
OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 409.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

SECTION 303.2 - VERTICAL
CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.

SECTION 303.3 - BEVELED
CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

SECTION 304.3.2 - T-SHAPED SPACE
THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

SECTION 305.3 - SIZE
THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES MINIMUM BY 48 INCHES MINIMUM.

SECTION 305.5 - POSITION
UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

SECTION 305.7.1 - FORWARD APPROACH
ALCOVES SHALL BE 36 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES.

SECTION 305.7.2 - PARALLEL APPROACH
ALCOVES SHALL BE 60 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES.

SECTION 306.2 - TOE CLEARANCE
GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2

SECTION 306.3 - KNEE CLEARANCE
GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

SECTION 307.2 - PROTRUSION LIMITS
OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.

SECTION 307.3 - POST-MOUNTED PROTRUDING OBJECTS
FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12 INCHES MAXIMUM WHEN LOCATED 27 INCHES MINIMUM AND 80 INCHES MAXIMUM ABOVE LOCATED 27 INCHES MINIMUM AND 80 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12 INCHES, THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27 INCHES MAXIMUM OR 80 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTION 307.4 - VERTICAL CLEARANCE
VERTICAL CLEARANCE SHALL BE 80 INCHES HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTON 308.2.1 - UNOBSTRUCTED
WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTION 308.2.2 - OBSTRUCTED HIGH REACH
WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE DEPTH IS 20 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS THE 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM.

SECTION 308.3.1 - UNOBSTRUCTED
WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTION 308.3.2 - OBSTRUCTED HIGH REACH
WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM.

SECTION 404.2.11 - VISION LIGHTS
DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR.
EXCEPTION: VISION LIGHTS WITH THE LOWEST PART MORE THAN 66 INCHES FROM THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.11

SECTION 903.1 - GENERAL
BENCHES SHALL COMPLY WITH 903

SECTION 903.2 - CLEAR FLOOR OR GROUND SPACE
CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED AND SHALL BE POSITIONED AT THE END OF THE BENCH SEAT AND PARALLEL TO THE SHORT AXIS OF THE BENCH

903.3 - SIZE
BENCHES SHALL HAVE SEATS THAT ARE 42 INCHES LONG MINIMUM AND 20 INCHES DEEP MINIMUM AND 24 INCHES MAXIMUM

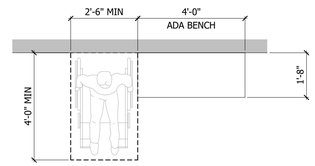
903.4 - BACK SUPPORT
THE BENCH SHALL PROVIDE FOR BACK SUPPORT OR SHALL BE AFFIXED TO A WALL. BACK SUPPORT SHALL BE 42 INCHES LONG MINIMUM AND SHALL EXTEND FROM A POINT 2 INCHES MAXIMUM ABOVE THE SEAT SURFACE TO A POINT 18 INCHES ABOVE THE SEAT SURFACE. BACK SUPPORT SHALL BE 2 1/2 INCHES MAXIMUM FROM THE REAR EDGE OF THE SEAT MEASURED HORIZONTALLY

903.5 - HEIGHT
THE TOP OF THE BENCH SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND

903.6 - STRUCTURAL STRENGTH
ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE

903.7 - WET LOCATIONS
WHERE INSTALLED IN WET LOCATIONS, THE SURFACE OF THE SEAT SHALL BE SLIP RESISTANT AND SHALL NOT ACCUMULATE WATER

NOTE: THESE DRAWINGS ARE FOR GENERAL MOUNTING CLEARANCE REFERENCE. SEE PLANS FOR CONFIGURATIONS. ALL DIMENSIONS SHALL CONFORM TO ADA STANDARDS.



CLEAR FLOOR SPACE @ ADA BENCH

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY: ____
DRAWN BY: LMH
CHECKED BY: NEB

ADVANCED ARCHITECTURE TIMOTHY M. HOLT
MAY 2023 RENEWAL DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ADA REQUIREMENTS

SHEET
A0.03
OF ___ SHEETS
JOB NO.
1509-00

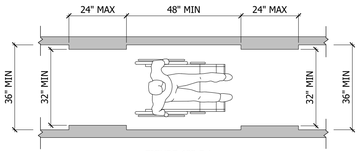
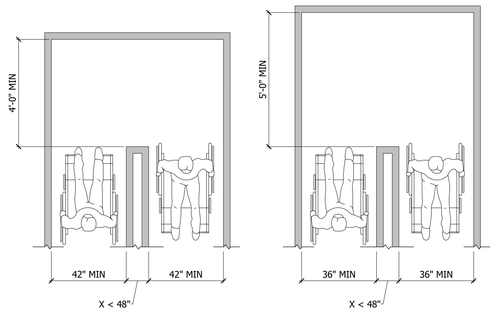


FIGURE 403.5.1

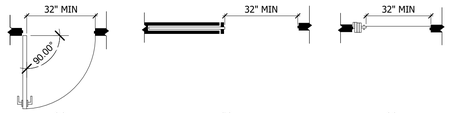


(a)
180 degree turn

(b)
180 degree turn
(Exception)

FIGURE 403.5.2

WALKING SURFACES - SECTION 403.5.1 & 403.5.2

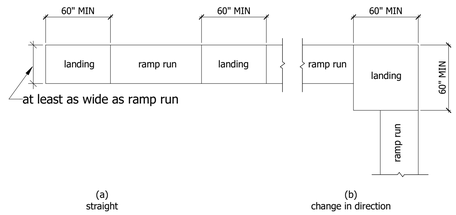


(a)
hinged door

(b)
sliding door

(c)
folding door

CLEAR WIDTH - SECTION 404.2.3



(a)
straight

(b)
change in direction

FIGURE 405.7

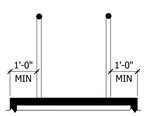


FIGURE 405.9.1

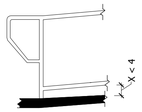
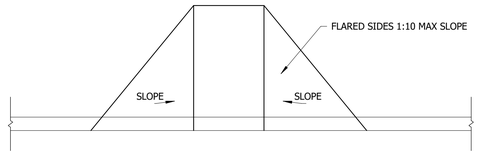
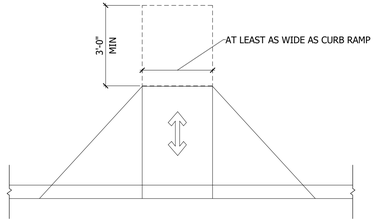


FIGURE 405.9.2

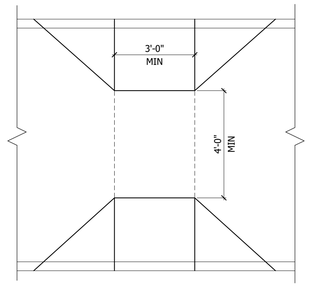
LANDINGS & EDGE PROTECTION - SECTION 405.7 & 405.9.1 & 405.9.2



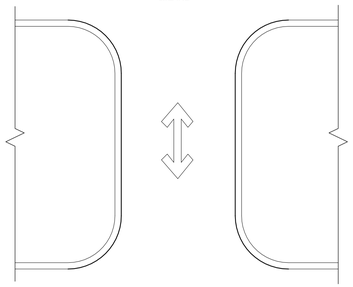
SIDES OF CURB RAMPS - SECTION 406.3



CURB RAMPS - SECTION 406.4

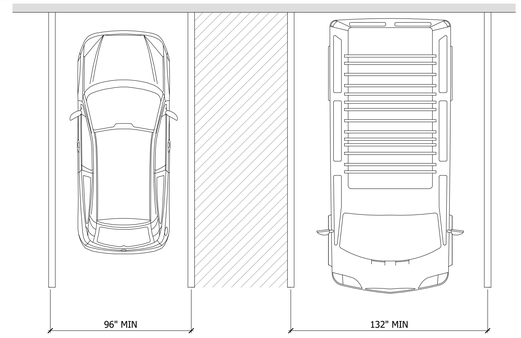


(B)
CURB RAMP AT
ISLAND



(A)
CUT THROUGH AT
ISLAND

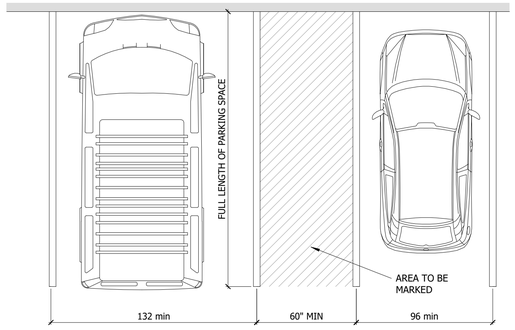
ISLANDS - SECTION 406.7



(A)
CAR

(B)
VAN

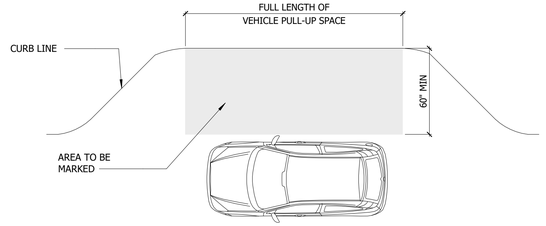
PARKING SPACES - SECTION 502.2



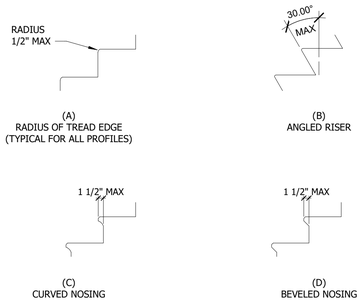
(A)
VAN

(B)
CAR

PARKING SPACES - SECTION 502.2



PASSENGER LOADING ZONE ACCESS AISLE - SECTION 503.3



(A)
RADIUS OF TREAD EDGE
(TYPICAL FOR ALL PROFILES)

(B)
ANGLED RISER

(C)
CURVED NOSING

(D)
BEVELED NOSING

NOSINGS - SECTION 504.5

ACCESSIBLE ROUTES

SECTION 403.3 - SLOPE
THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.

SECTION 403.5.1 - CLEAR WIDTH
EXCEPT AS PROVIDED IN 403.5.2 AND 403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINIMUM.

SECTION 403.5.2 - CLEAR WIDTH AT TURN
WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTH SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE TURN AND 42 INCHES MINIMUM LEAVING THE TURN.

SECTION 404.2.3 - CLEAR WIDTH
DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE TEH FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.

SECTION 405.7 - LANDINGS
RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. LANDINGS SHALL COMPLY WITH 405.7.

SECTION 405.9.1 - EXTENDED FLOOR OR GROUND SURFACE
THE FLOOR OR GROUND SURFACE OF THE RAMP RUN OR LANDING SHALL EXTEND 12 INCHES MINIMUM BEYOND THE INSIDE FACE OF A HANDRAIL COMPLYING WITH 505.

SECTION 405.9.2 - CURB OR BARRIER
A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SRUFACE.

SECTION 406.2 - COUNTER SLOPE
COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.

SECTION 406.3 - SIDES OF CURB RAMPS
WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.

SECTION 406.4 - LANDINGS
LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MIMIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.

SECTION 406.6 - DIAGONAL CURB RAMPS
DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF THE DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

SECTION 406.7 - ISLANDS
RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIMUM BY 36 INCHES WIDE MINIMUM AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIMUM BY 36 INCH MINIMUM AREA SHALL BE ORIENTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.

ACCESSIBLE PARKING

SECTION 208.2.4 - VAN PARKING SPACES
FOR EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.

SECTION 502.2 - VEHICLE SPACES
CAR PARKING SPACES SHALL BE 96 INCHES WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 132 INCHES WIDE MINIMUM, SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE COMPLYING WITH 502.3.

SECTION 502.3 - ACCESS AISLE
ACCESS AISLES SERVING PARKING SPACES SHALL COMPLY WITH 502.3. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTEDTO SHARE A COMMON ACCESS AISLE.

SECTION 502.6 - IDENTIFICATION
PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE". SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

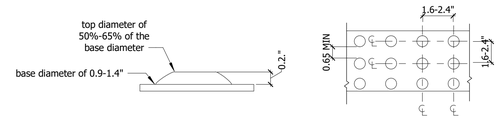
SECTION 503.3.1 & 503.3.2 - PASSENGER LOADING ZONES
ACCESS AISLES SERVING VEHICLE PULL-UP SPACES SHALL BE 60" WIDE MINIMUM. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE VEHICLE PULL-UP SPACES THEY SERVE.

SECTION 503.3 - ACCESS AISLE
PASSENGER LOADING ZONES SHALL PROVIDE ACCESS AISLES COMPLYINH WITH 503 ADJACENT TO THE VEHICLE PULL-UP SPACE. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY.

SECTION 504.5 - NOSINGS
THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/2 INCHES MAXIMUM OVER THE TREAD BELOW.

705 - DETECTABLE WARNINGS
DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES AND SHALL COMPLY WITH 705. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9" MINIMUM AND 1.4" MAXIMUM, A TOP DIAMETER OF 50% OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2". TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6" MINIMUM AND 2.4" MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65" MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

NOTE: THESE DRAWINGS ARE FOR GENERAL MOUNTING CLEARANCE REFERENCE. SEE PLANS FOR CONFIGURATIONS. ALL DIMENSIONS SHALL CONFORM TO ADA STANDARDS.



(a)
elevation
(enlarged)

(b)
plan

DETECTABLE WARNINGS - SECTION 705.1

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DRAWN BY: LMH
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PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

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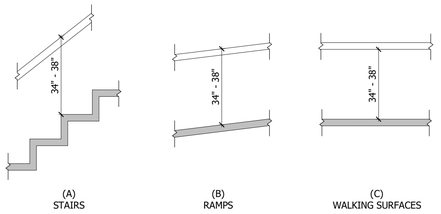
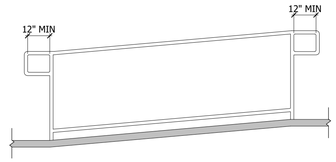


HANDRAIL HEIGHTS - SECTION 505.4



TOP/BOTTOM HANDRAIL EXTENSION AT RAMPS - SECTION 505.10.1

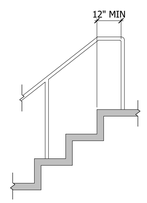
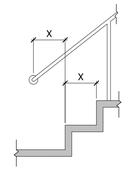


FIGURE 505.10.2



NOTE: X = TREAD DEPTH

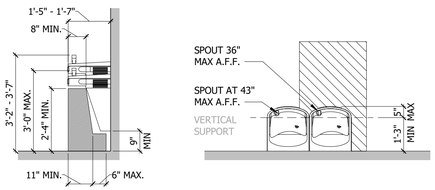
FIGURE 505.10.3

TOP/BOTTOM HANDRAIL EXT. AT STAIRS - SECTION 505.10.2 & 505.10.3

FIGURE 505.5

FIGURE 505.6

HANDRAIL CLEARANCE - SECTION 505.5 & 505.6



NOTE: EQUIPMENT NOT PERMITTED IN SHADED AREA.
MUST COMPLY WITH 305 AND 306 OF THE TAS

SPOUT LOCATION - SECTION 602.5

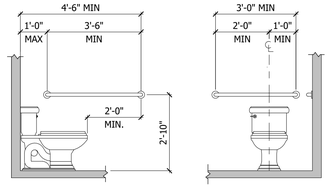


FIGURE 604.5.1

FIGURE 604.5.2

GRAB BARS SIDE & REAR WALL - SECTION 604.5.1 & 604.5.2

GENERAL SITE AND BUILDING ELEMENTS CONTINUED

SECTION 505.4 - HANDRAIL HEIGHT
TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VETICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.

SECTION 505.5 - CLEARANCE
CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES MINIMUM.

SECTION 505.6 - GRIPPING SURFACE
HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES MINIMUM BEOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.

SECTION 505.7.2 & 609.2.2 - NON-CURCULAR SECTIONS
HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 6 1/4 INCHES MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2 1/4 INCHES MAXIMUM. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVEA CROSS-SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM.

SECTION 505.10.1 - TOP AND BOTTOM EXTENTION AT RAMPS
RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM RAMP RUNS. EXTENTIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

SECTION 505.10.2 - TOP EXTENTION AT STAIRS
AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENTIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

SECTION 505.10.3 - BOTTOM EXTENTION AT STAIRS
AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

PLUMBING ELEMENTS AND FACILITIES

SECTION 602.5 - SPOUT LOCATION
THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS. UNITS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH AND CENTERED ON THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED. SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

SECTION 604.2 - LOCATION
THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.

SECTION 604.31 - CLEARANCE
CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL.

SECTION 604.51 - SIDE WALL GRAB BAR AT WATER CLOSETS
THE SIDE WALL GRAB BAR SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL.

SECTION 604.5.2 - REAR WALL GRAB BAR AT WATER CLOSETS
THE REAR WALL GRAB BAR SHALL BE 36 INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE.

HAND RAILS AND GRAB BARS

SECTION 609.3 SPACING
THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALLS BE 1 1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

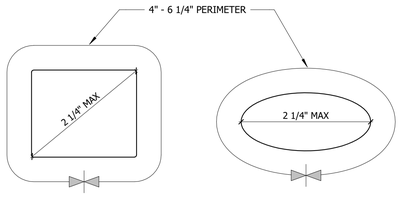
SECTION 609.2.1 & 505.7.1 CIRCULAR CROSS SECTION
GRAB BARS AND HANDRAIL GRIPPING SURFACES WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND 2" MAXIMUM.

SECTIONS 405.5 - CLEAR WIDTH
THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36" MINIMUM.

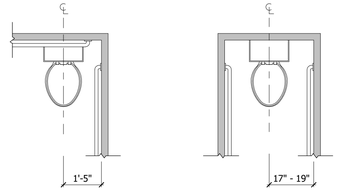
SECTION 609.8 - STRUCTURAL STRENGTH
ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

SECTION 505.8 & 609.5 - SURFACE HAZARDS
HANDRAILS, GRAB BARS, AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS AND HANDRAILS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

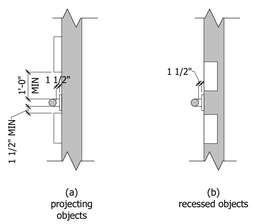
NOTE: THESE DRAWINGS ARE FOR GENERAL MOUNTING CLEARANCE REFERENCE. SEE PLANS FOR CONFIGURATIONS. ALL DIMENSIONS SHALL CONFORM TO ADA STANDARDS.



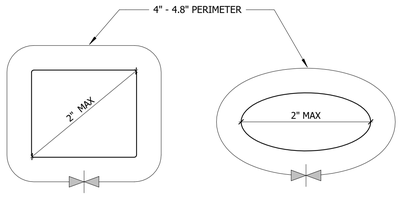
HANDRAIL NON-CIRCULAR CROSS SECTION - SECTION 505.7.2



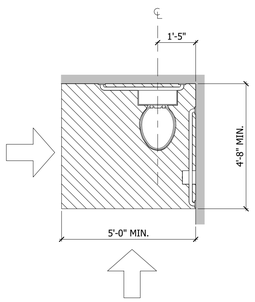
WATER CLOSET LOCATION - SECTION 604.2



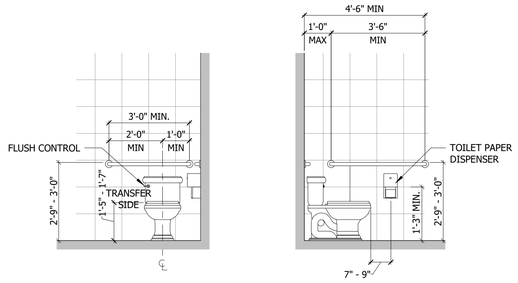
SPACING OF GRAB BARS - SECTION 609.3



GRAB BAR NON-CIRCULAR CROSS SECTION - SECTION 609.2.2



CLEAR FLOOR SPACE



HEIGHT REQUIREMENTS

SIZE OF CLEARANCE AT WATER CLOSETS - SECTION 604.3.1, 604.5.1 & 604.5.2

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

ADVANCED ARCHITECTURE TIMOTHY M HOLT
MAY 2023 RENEWAL DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
ADA REQUIREMENTS

SHEET
A0.05
OF ___ SHEETS
JOB NO.
1509-00

KEYNOTES ⟨XXX⟩

343	FIRE DEPARTMENT CONNECTION
357	PROVIDE CBC COMPLIANT RECESSED KNOXBOX - BRACE WALL AS NECESSARY

LIFE SAFETY LEGEND

TRAVEL DISTANCE	● - - -	GROUP A-3 OCCUPANCY	☰
1-HOUR FIRE RATED DEMISING WALL	▬	GROUP B OCCUPANCY	‖
GROUP S-2 OCCUPANCY	▨	GROUP R-3 OCCUPANCY	■

FIRE EXTINGUISHER LEGEND

PROPOSED FIRE EXTINGUISHER CABINET - TRAVEL DISTANCE TO EXTINGUISHERS IS 75' MAXIMUM

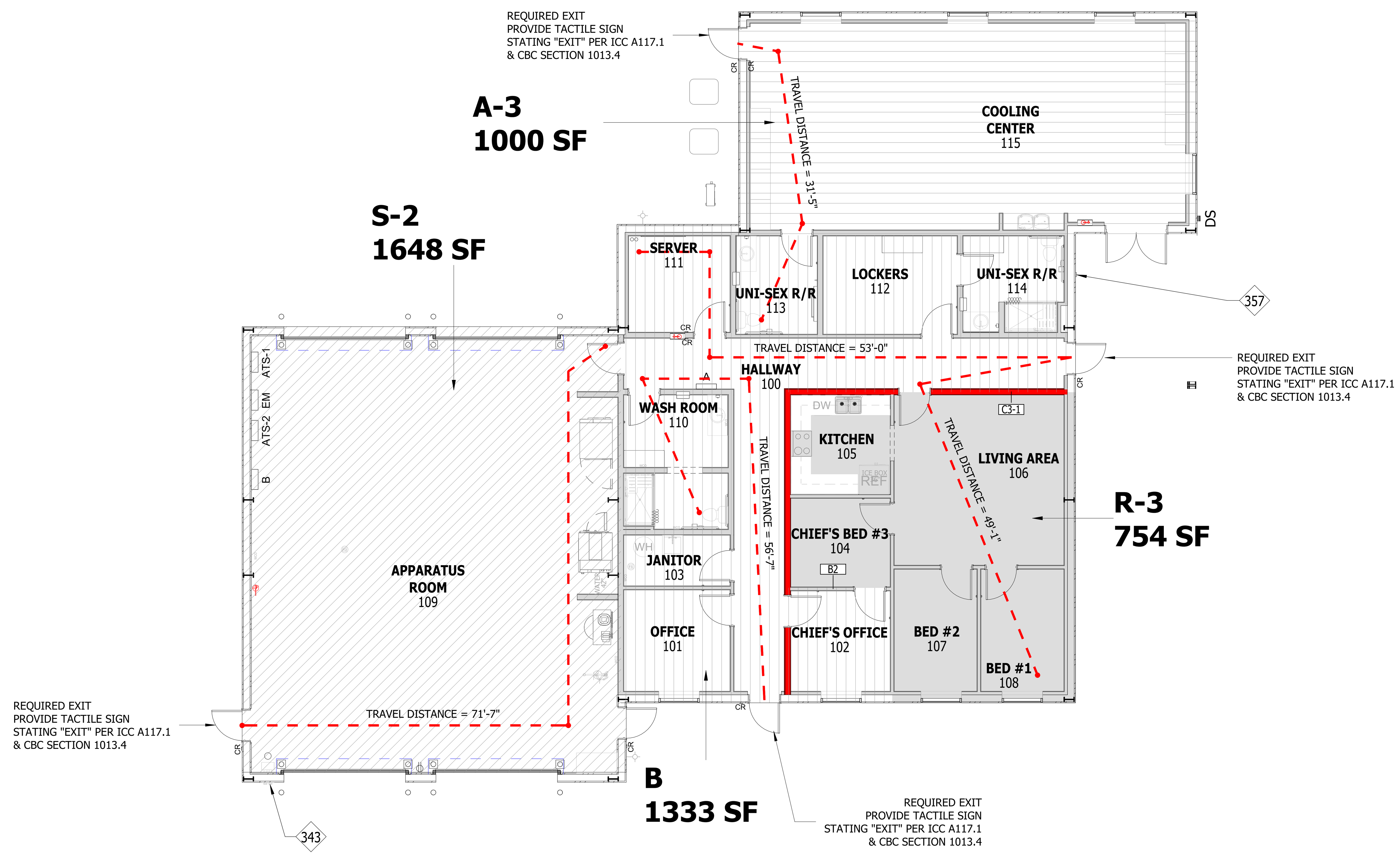
PROPOSED FIRE EXTINGUISHER - TRAVEL DISTANCE TO EXTINGUISHERS IS 75' MAXIMUM

FIRE EXTINGUISHER TO BE 10LB, ABC DRY CHEMICAL
TOP OF FIRE EXTINGUISHER TO BE MOUNTED BELOW 48" A.F.F.
INSTALL EXTINGUISHERS PER NFPA 10

6

STRUCTURAL NOTE FOR CONSTRUCTION TYPE IIA

***BUILDING STRUCTURE TO HAVE A FIRE PROTECTIVE COATING APPLIED TO ACHIEVE A 1-HR RATING**



01 LIFE SAFETY PLAN
1/8" = 1'-0"

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UNAUTHORIZED CHANGES & USES: The architect preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT
TIMOTHY M HOLT
C-12576
MAY 2023
RENEWAL
DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

[illegible]

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
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05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
LIFE SAFETY PLAN

SHEET
A0.10
OF ___ SHEETS

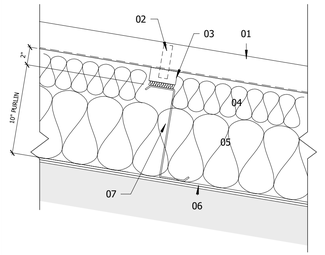
JOB NO.
1509-00

WALL INSULATION SYSTEM INFORMATION

FIBERGLASS INSULATION WITH THE CORRECT R-VALUE SHOWN IS TO FILL GIRT CAVITY. THERMAL BREAK TAPE WILL BE APPLIED TO THE OUTSIDE OF GIRTS. INSULATION HANGERS ARE REQUIRED FOR WALLS TO HOLD THE FIBERGLASS IN PLACE TEMPORARILY BEFORE THE LINER FABRIC IS INSTALLED OVER THE GIRTS ON THE INSIDE OF THE BUILDING. FABRIC WILL BE PROVIEDED TO COVER ONE BAY IN WIDTH AND ATTACH OVER THE GIRTS, SECURED BY A BANDING GRID. FLAME SPREAD AND SMOKE CONTRIBUTION TO MEET UL723/ASTM E84. THE INSTALLED WALL SYSTEM IS TO PROVIDE A CONTINUOUS VAPOR RETARDER.

ROOF INSULATION SYSTEM INFORMATION

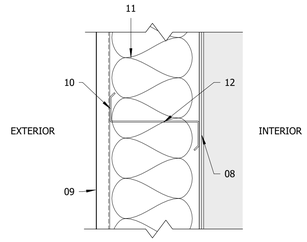
FIBERGLASS INSULATION WITH THE CORRECT R-VALUE SHOWN IS TO FILL PURLIN CAVITY AND FIBERGLASS INSULATION WITH THE CORRECT R-VALUE SHOWN TO BE PLACED ATOP PURLINS CONSISTS OF TWO LAYERS. NOMINAL EXTRUDED POLYSTYRENE THERMAL BLOCKS, THREE INCHES WIDE WITH AN R-VALUE OF 3 WILL BE APPLIED TO THE TOP OF THE PURLINS. FABRIC WILL BE PROVIED TO COVER ONE BAY IN WIDTH AND ATTACH UNDERNEATH THE PURLIN (INSIDE GIRT), SECURED BY A BANDING GRID. A SAFETY BAND WILL BE INSTALLED PARALLEL TO EACH FRAME AND 16" FROM THE FRAME, SECURED BY SAFETY CLIPS. FLAME SPREAD AND SMOKE CONTRIBUTION TO MEET UL723/ASTM E84. THE INSTALLED ROOF SYSTEM IS TO PROVIDE A CONTINUOUS VAPOR RETARDER.



01. STANDING SEAM ROOF PANEL
02. STANDOFF CLIP
03. MIN R3 XPS THERMAL BLOCK
04. MIN R-13 (3.5") UNFACED BATT INSULATION CONTINUOUS OVER PURLINS
05. MIN R-25 (8") UNFACED BATT INSULATION BETWEEN PURLINS
06. CONTINUOUS INSULATION LINER WITH BANDING GRID
07. PEMB ROOF PURLIN - 10"

ROOF ASSEMBLIES

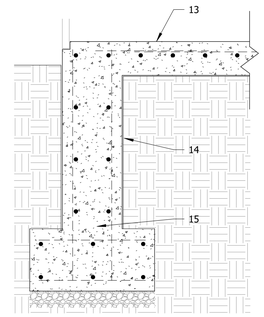
OVERALL U FACTOR = 0.026



08 CONTINUOUS INSULATION LINER WITH BANDING GRID
09. METAL WALL PANEL
10. THERMAL BREAK TAPE
11. MIN R-25 (8") UNFACED BATT INSULATION (CONTINUOUS)
12. PEMB WALL GIRT - 8"
* DOORS U-FACTOR: SWINGING 0.37, GARAGE <14% 0.31
* WINDOWS U-FACTOR: FIXED 0.50, OPERABLE 0.65

WALL ASSEMBLIES

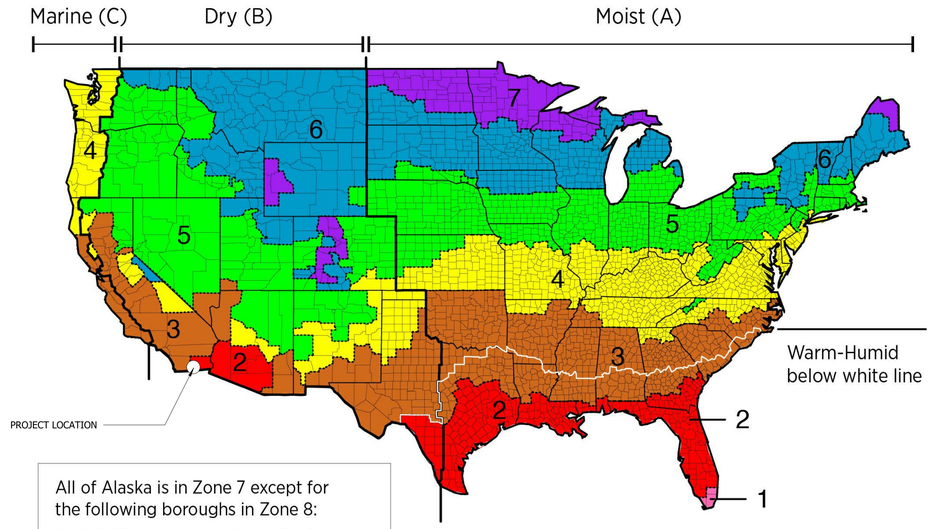
OVERALL U FACTOR = 0.040



13. FINISH FLOOR
14. VAPOR BARRIER
15. STRUCTURAL FOUNDATION

FLOOR ASSEMBLIES

CLIMATE ZONE 2



All of Alaska is in Zone 7 except for the following boroughs in Zone 8:

Bethel, Northwest Arctic, Dellingham, Southeast Fairbanks, Fairbanks N. Star, Wade Hampton, Nome, Yukon-Koyukuk, North Slope

Zone 1 includes Hawaii, Guam, Puerto Rico, and the Virgin Islands

IECC CLIMATE ZONE MAP

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DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

ADVANCED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

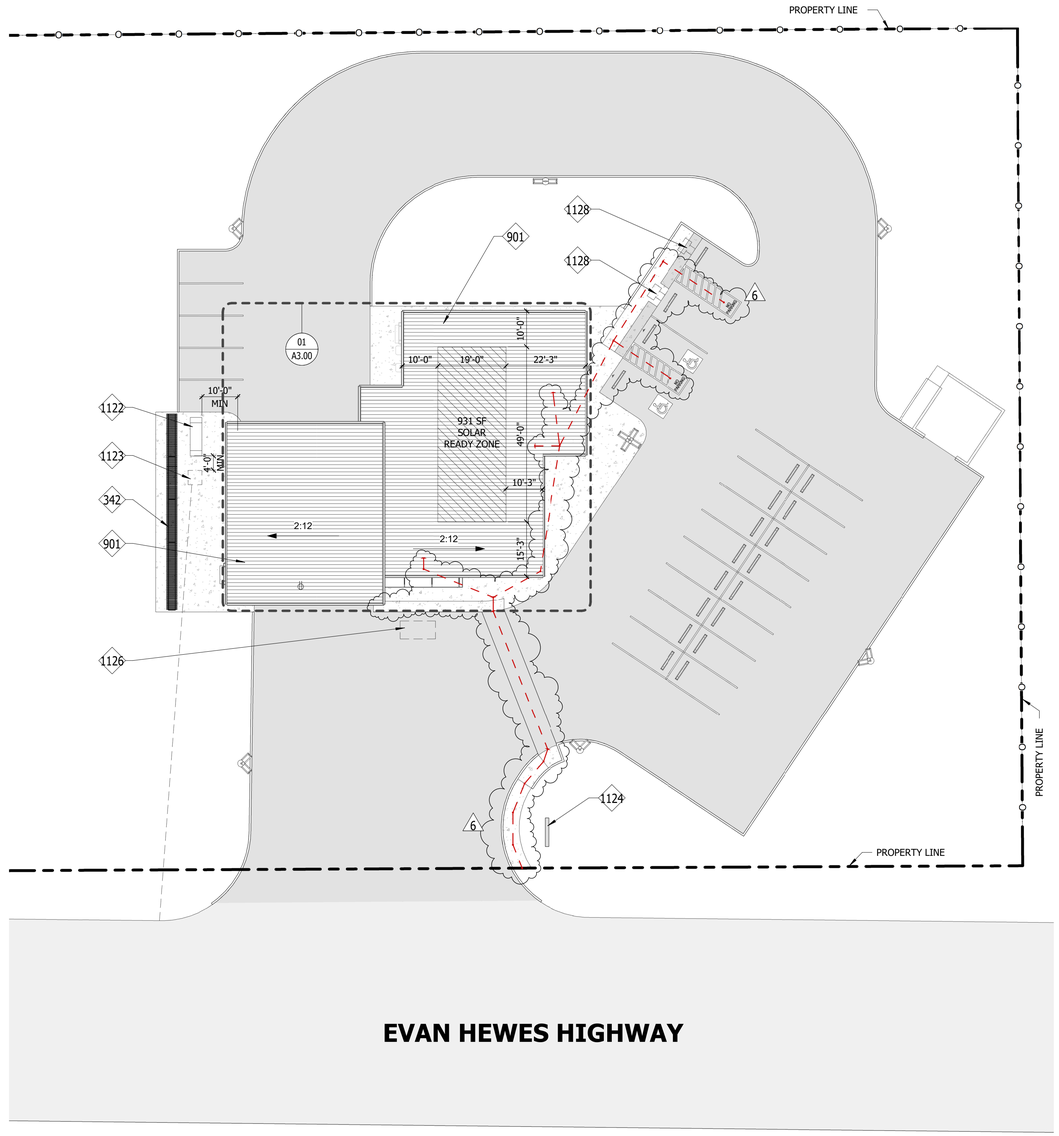
SHEET CONTENT:

THERMAL & MOISTURE PROTECTION

SHEET A0.21

OF ___ SHEETS

JOB NO. 1509-00



N

01 ARCHITECTURAL SITE PLAN

1" = 20'-0"

KEYNOTES (XXX)

342	STEEL RACK FOR DRYING FIRE HOSE - SECURELY ATTACH TO CONCRETE SLAB
901	MP-1: METAL ROOF PANEL - RE: FINISH MATERIALS SCHEDULE
1122	GENERATOR PAD & DIESEL GENERATOR - RE: MEP DRAWINGS
1123	TRANSFORMER PAD LOCATION - RE: ELECTRICAL DRAWINGS
1124	PROVIDE POWER TO MONUMENT SIGN - RE: MEP & CIVIL DRAWINGS
1126	SAND AND OIL INTERCEPTOR - RE: PLUMBING DRAWINGS
1128	FUTURE ELECTRIC VEHICLE CHARGING STATION

GENERAL SITE NOTES

ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 1:48 SLOPE IN ANY DIRECTION PER CBC 11B-302 & 11B-502.4

THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 PER CBC 11B-403.3

THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 PER CBC 11B-403.3

*REFER TO CIVIL DRAWINGS FOR FUTHER SITE INFORMATION

EXCAVATION & TRENCHING NOTES

CALL 811 PRIOR TO START OF EXCAVATION - WRITE TICKET NUMBER ON EXCAVATION PERMIT

ALL SUB-CONTRACTORS PERFORMING GROUND DISTURBANCES SHALL HAVE A G.C. SUPERINTENDENT PRESENT WHILE WORK IS BEING PERFORMED

UTILITY MARKING FLAGS INSTALLED EVERY 8'-0" MIN. IMMEDIATELY UPON BACKFILLING OF LINE, CONDUIT, & PIPE

A SPOTTER MUST BE UTILIZED WHILE TRENCHING AND EXCAVATING

LINE TAPE OR LINE TRACE MUST BE INSTALLED PRIOR TO BACKFILLING LINE, CONDUIT, & PIPE

SUB-CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY/UNDERGROUND LINE FLAGS AND MUST ENSURE THEY ARE PRESENT FOR THE DURATION OF THE PROJECT

SUB-CONTRACTOR TO MARK UNDERGROUND LINES WITH FLOURESCENT SPRAY PAINT

SUB-CONTRACTOR MUST COMPLETE JSA FORM AND GAIN G.C. SUPERINTENDENT APPROVAL PRIOR TO EXCAVATION/TRENCHING

ALL LINE CROSSINGS MUST BE EXCAVATED AND DAYLIGHTED BY HAND OR HYDROVAC

SUB-CONTRACTOR TO UPDATE AS-BUILT DRAWING IMMEDIATELY TO RECORD LOCATIONS OF LINES

ALL PRIVATE LINES MUST BE MARKED BY OWNER PRIOR TO EXCAVATING & TRENCHING

SOLAR READY ZONE NOTES

TOTAL ROOF AREA = (3,933 SF + 2,270 SF) = 6,203 SF
SOLAR READY REQUIREMENT = 15%

TOTAL REQUIRED SOLAR READY AREA = 930 SF
TOTAL PROVIDED SOLAR READY AREA = **931 SF**

6

SITE PLAN LEGEND

ACCESSIBLE PATH

NEW FENCE

ROOF SOLAR READY AREA

PROPOSED LIGHT POLE

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DESIGN BY: ____

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

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07/08/2022
DATE

12576
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05 - 31 - 2023
EXPIRATION

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SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:

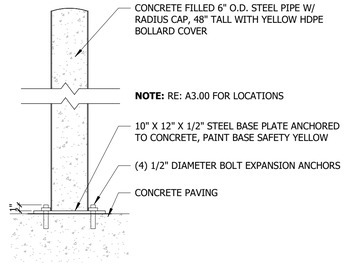
OVERALL SITE PLAN

SHEET A1.00

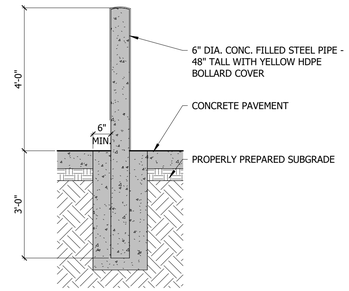
OF ___ SHEETS

JOB NO. 1509-00

KEYNOTES XXX



12 INTERIOR BOLT DOWN BOLLARD
1" = 1'-0"



08 BOLLARD DETAIL
1/2" = 1'-0"

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SEELEY FIRE STATION & COOLING CENTER

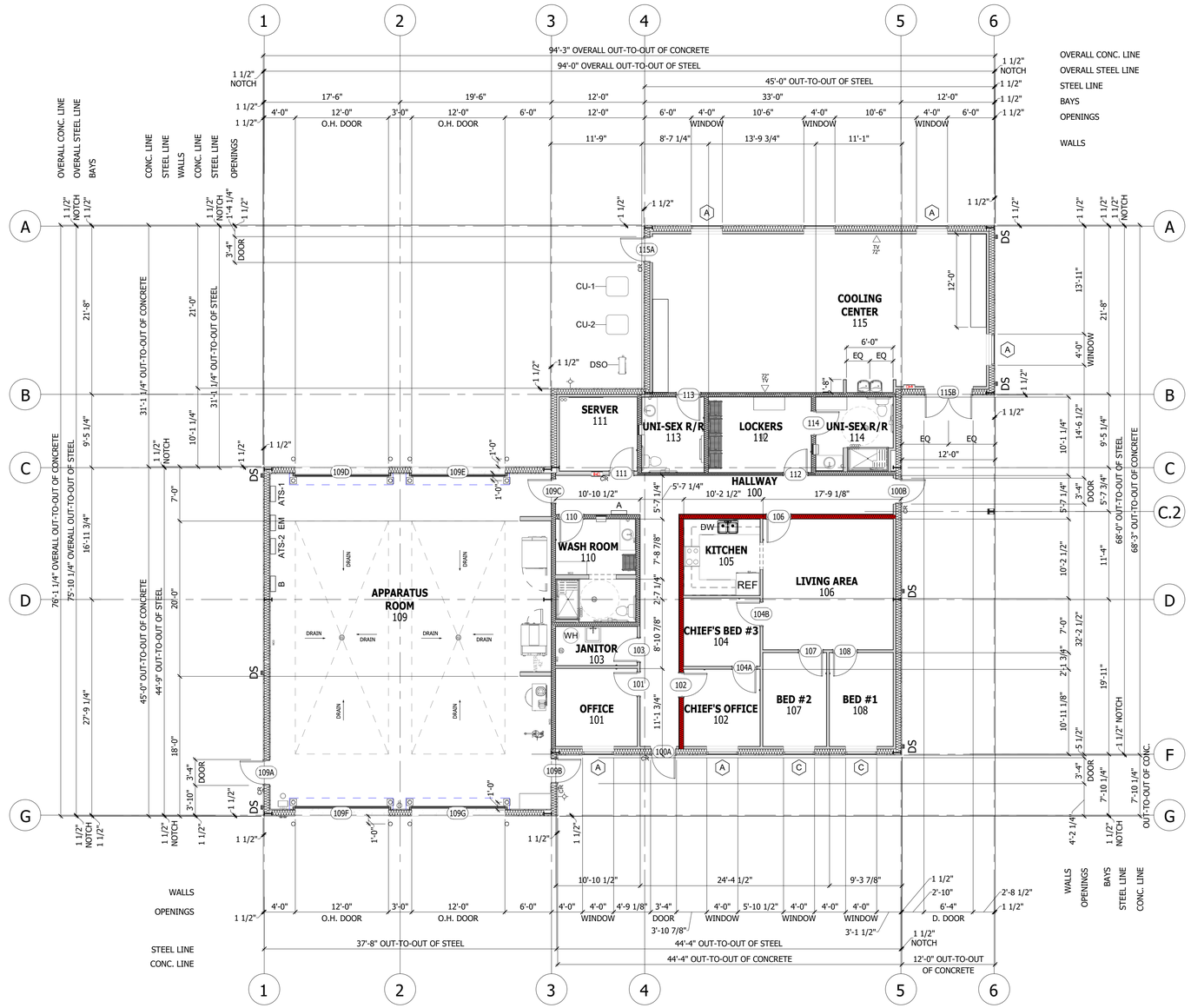
SHEET CONTENT:

SITE PLAN DETAILS

SHEET
A1.10
OF ___ SHEETS

JOB NO.
1509-00

*RE: A3.10 FOR WALL ID TAGS



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01 FLOOR PLAN - DIMENSIONS

1/8" = 1'-0"

WALL TYPE

NEW WALL

NEW WALL WITH INSULATION

FIRE EXTINGUISHER LEGEND

PROPOSED FIRE EXTINGUISHER CABINET - TRAVEL DISTANCE TO EXTINGUISHERS IS 75' MAXIMUM

PROPOSED FIRE EXTINGUISHER - TRAVEL DISTANCE TO EXTINGUISHERS IS 75' MAXIMUM

FIRE EXTINGUISHER TO BE 10LB, ABC DRY CHEMICAL
TOP OF FIRE EXTINGUISHER TO BE MOUNTED BELOW 48" A.F.F.
INSTALL EXTINGUISHERS PER NFPA 10

ENTRANCE & REQUIRED EXIT DOOR NOTES

ENTRANCES:
DOOR IS AT GRADE. PROVIDE HANDICAP SIGNAGE AT INTERIOR AND EXTERIOR DISPLAYING INTERNATIONAL SYMBOL AND WORDING INDICATING ACCESSIBILITY. MAINTAIN SAME ELEVATION BOTH SIDES OF THRESHOLD PER IBC SECTION 1010.1.7. THRESHOLD MUST NOT EXCEED 1/2" IN HEIGHT.

EXITS:
MAINTAIN SAME ELEVATION BOTH SIDES OF THRESHOLD PER IBC SECTION 1010.1.7. THRESHOLD MUST NOT EXCEED 1/2" IN HEIGHT.

STRUCTURAL NOTE

BAY DIMENSIONS AND COLUMN LOCATIONS ARE SHOWN FOR REFERENCE ONLY - RE: PEMB DRAWINGS FOR EXACT SIZES AND BUILDING SPECIFICATIONS

***BUILDING STRUCTURE TO HAVE A FIRE PROTECTIVE COATING APPLIED TO ACHIEVE A 1-HR RATING**

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SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
FLOOR PLAN - DIMENSIONS

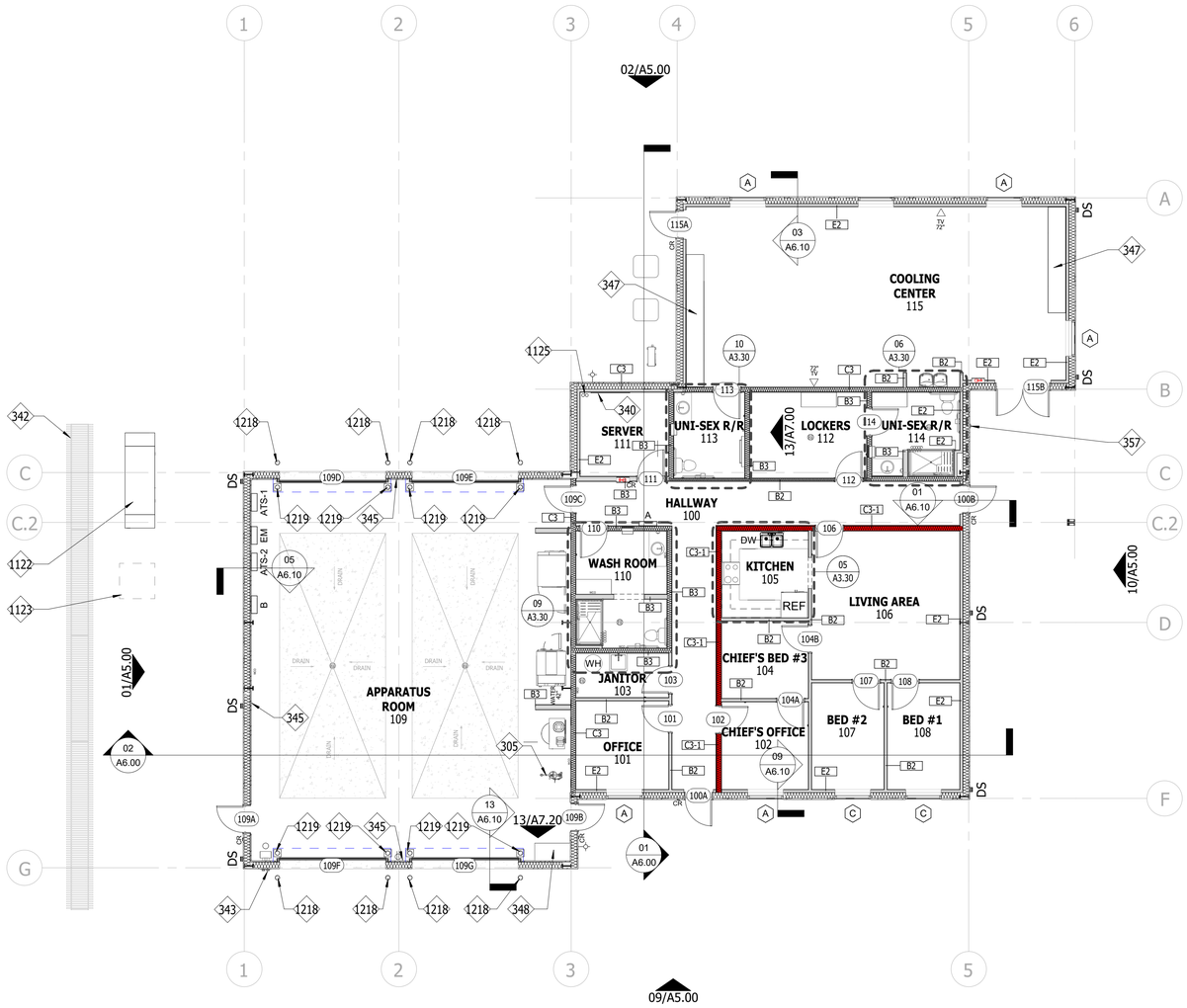
SHEET A3.00
OF ___ SHEETS

JOB NO. 1509-00

KEYNOTES	XXX
305	PROVIDE NEW COMBO EYE-WASH/DRENCH STATION WITH DRAIN - TO COMPLY WITH ALL OSHA REQUIREMENTS - RE:MEP
340	PROVIDE 4'x8'x3/4" FIRE RESISTANT PLYWOOD TO 8'-0" A.F.F. FOR TELEPHONE TERMINAL BOARD "TTB" - REFER TO PLAN FOR LOCATION
342	STEEL RACK FOR DRYING FIRE HOSE - SECURELY ATTACH TO CONCRETE SLAB
343	FIRE DEPARTMENT CONNECTION
345	LINER PANEL TO ROOF - RE: FINISH MATERIALS SCHEDULE
347	PROVIDE TALL CABINETS FOR STORING TABLES AND CHAIRS - 80" TALL BY 24" DEEP BY 144" LONG
348	PROVIDE COUNTERTOP AND LOWER CABINETS - 24" DEEP BY 34" TALL BY 48" WIDE
357	PROVIDE CBC COMPLIANT RECESSED KNOXBOX - BRACE WALL AS NECESSARY
1122	GENERATOR PAD & DIESEL GENERATOR - RE: MEP DRAWINGS
1123	TRANSFORMER PAD LOCATION - RE: ELECTRICAL DRAWINGS
1125	PROVIDE (2) 4" CONDUITS FOR AT&T/SPECTRUM - RE: ELECTRICAL DRAWINGS
1218	PROVIDE 6" DIA. CONC. FILLED SCH 40 PIPE; HDPE YELLOW PLASTIC COVER - RE: 08/A1.10
1219	CONCRETE FILLED 6" O.D. STEEL PIPE W/ RADIUS CAP, 48" TALL WITH YELLOW HDPE BOLLARD COVER WITH 10" X 12" X 1/2" STEEL BASE PLATE ANCHORED TO CONCRETE BY (4) 1/2" DIAMETER BOLT EXPANSION ANCHORS, PAINT BASE SAFETY YELLOW - RE: 12/A1.10

ELECTRICAL LEGEND	X" = LOCATION A.F.F.
TV ▽	FOR ALL ELECTRICAL INFORMATION REFERENCE ELECTRICAL DRAWINGS

GENERAL NOTES:
1) ALL OUTLETS PLACED AT 18" ABOVE FINISH FLOORS UNLESS INDICATED OTHERWISE
2) ALL OUTLET PLATES AND SWITCH PLATES IN GYP WALLS TO BE WHITE



N

01 FLOOR PLAN - ANNOTATIONS

1/8" = 1'-0"

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3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

ADVANCED ARCHITECTURE TIMOTHY M. HOLT STATE OF CALIFORNIA MAY 2023 RENEWAL DATE

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

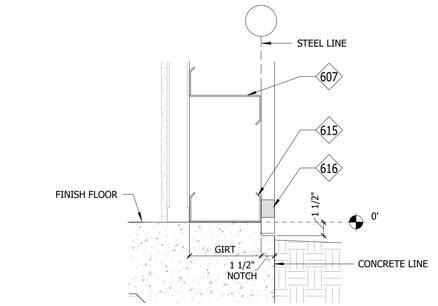
SHEET CONTENT:
FLOOR PLAN - ANNOTATIONS

SHEET A3.10
OF ___ SHEETS
JOB NO. 1509-00

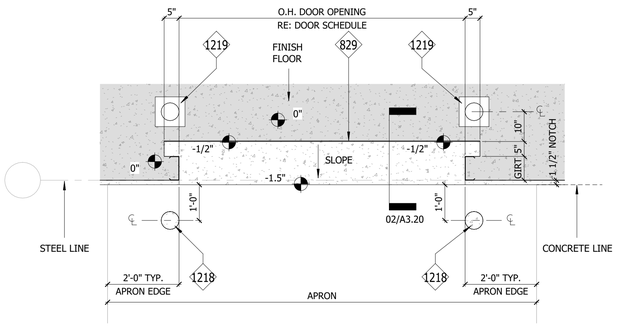
KEYNOTES	XXX
506	METAL DOWNSPOUT - TIE DOWNSPOUTS INTO CIVIL DRAINS - RE: CIVIL DRAWINGS
607	GIRTS (TYP.) - RE: PEMB DRAWINGS
615	BASE TRIM - RE: PEMB DRAWINGS
616	CLOSURE STRIP - RE: PEMB DRAWINGS
823	OVERHEAD DOOR GUIDE
825	OVERHEAD DOOR
829	TOOLED CHAMFERED EDGE, 1/4"
1125	PROVIDE (2) 4" CONDUITS FOR AT&T/SPECTRUM - RE: ELECTRICAL DRAWINGS
1218	PROVIDE 6" DIA. CONC. FILLED SCH 40 PIPE; HDPE YELLOW PLASTIC COVER - RE: 08/A1.10
1219	CONCRETE FILLED 6" O.D. STEEL PIPE W/ RADIUS CAP, 48" TALL WITH YELLOW HDPE BOLLARD COVER WITH 10" X 12" X 1/2" STEEL BASE PLATE ANCHORED TO CONCRETE BY (4) 1/2" DIAMETER BOLT EXPANSION ANCHORS, PAINT BASE SAFETY YELLOW - RE: 12/A1.10

FOUNDATION NOTES

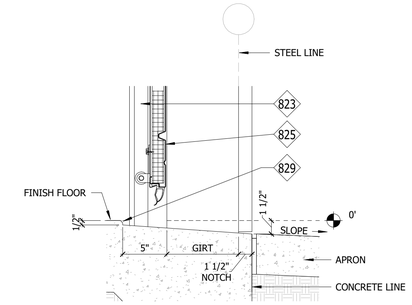
-ALL DIMENSIONS MEASURED FROM OUT-TO-OUT OF STEEL LINE U.N.O.
-WALL CLEANOUTS SHOWN IN GENERAL LOCATIONS ONLY - LOCATION TO MEET ALL APPLICABLE CODES
-PROVIDE FLOOR DRAINS WHERE INDICATED ON PLUMBING DRAWINGS - T.O. GRATE TO BE FLUSH WITH T.O. FLOOR FINISH



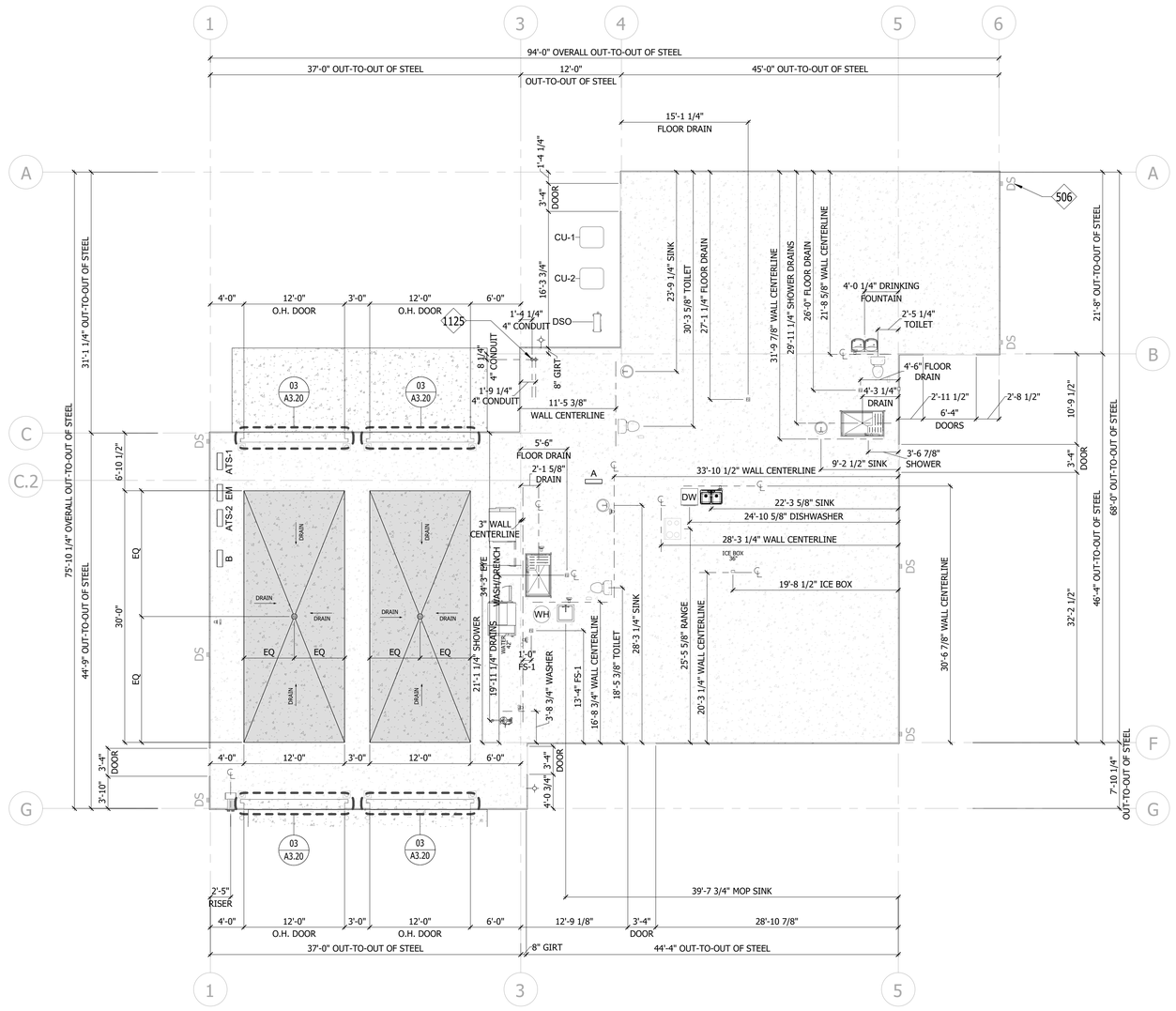
04 CONCRETE NOTCH DETAIL
1 1/2" = 1'-0"



03 O.H. DOOR CONCRETE PLAN
1/2" = 1'-0"



02 O.H. DOOR SILL
1 1/2" = 1'-0"



01 ARCHITECTURAL FOUNDATION PLAN
1/8" = 1'-0"

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3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENSED ARCHITECT TIMOTHY M. HOLT
MAY 2023 RENEWAL DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

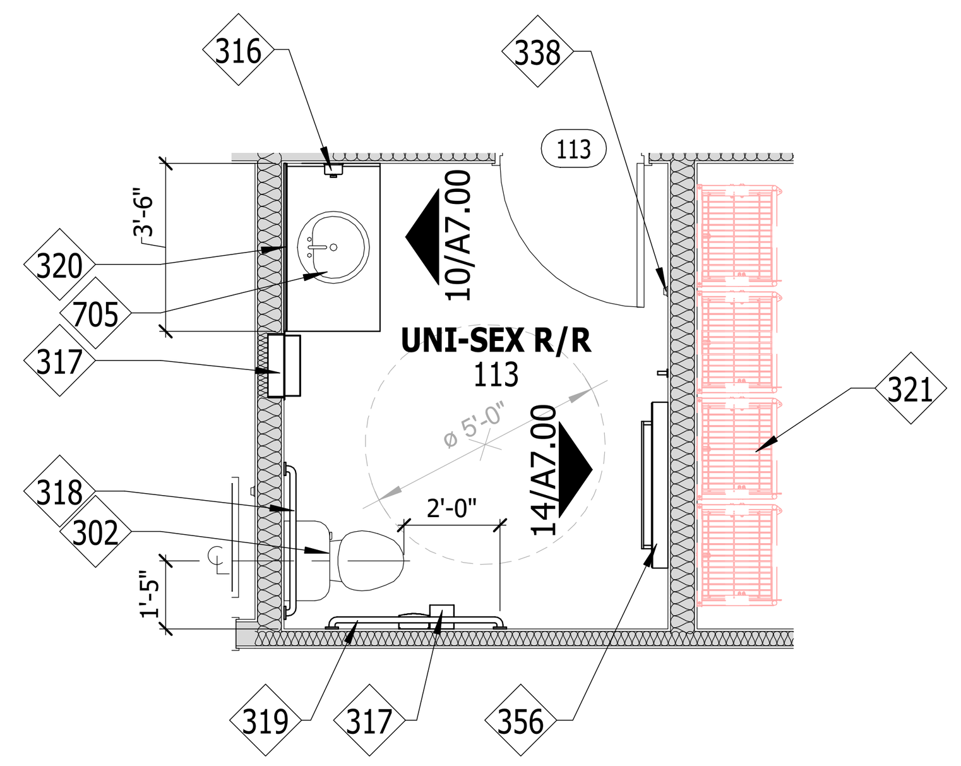
12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

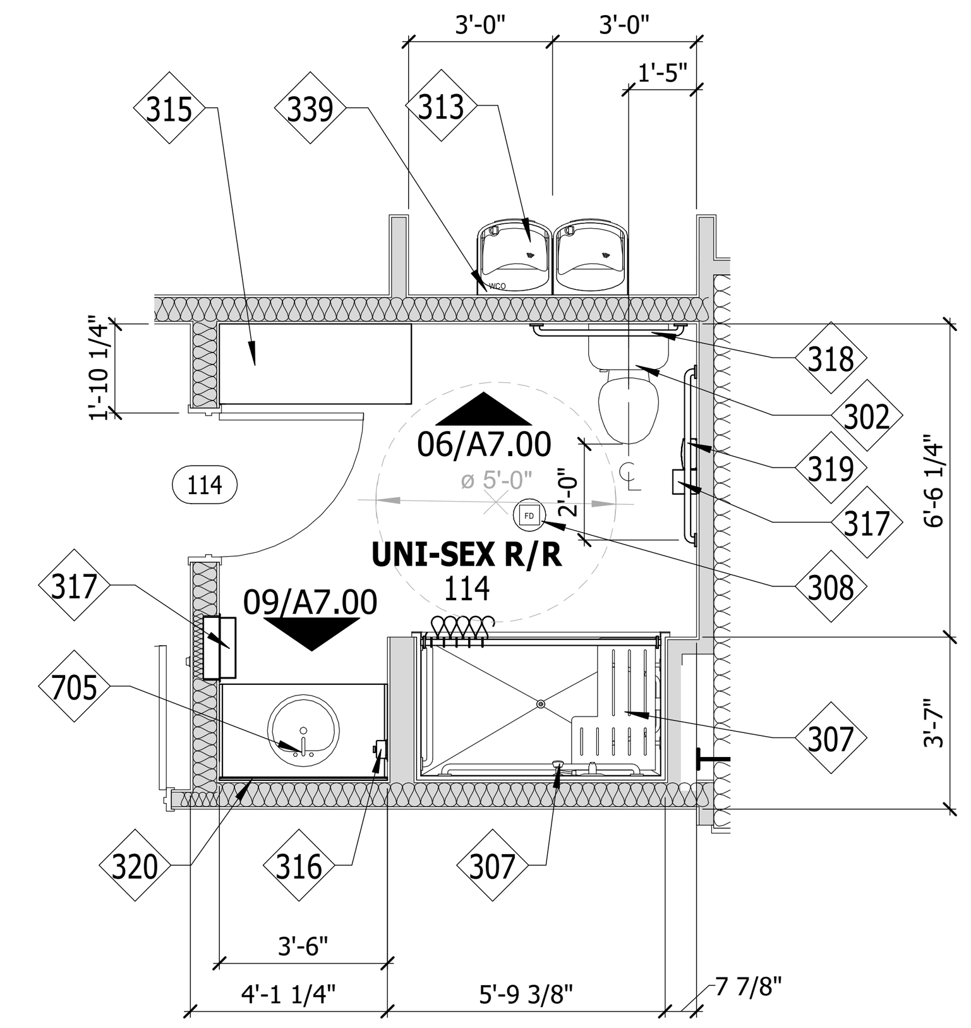
SHEET CONTENT:
ARCHITECTURAL FOUNDATION PLAN

SHEET
A3.20
OF ___ SHEETS
JOB NO.
1509-00

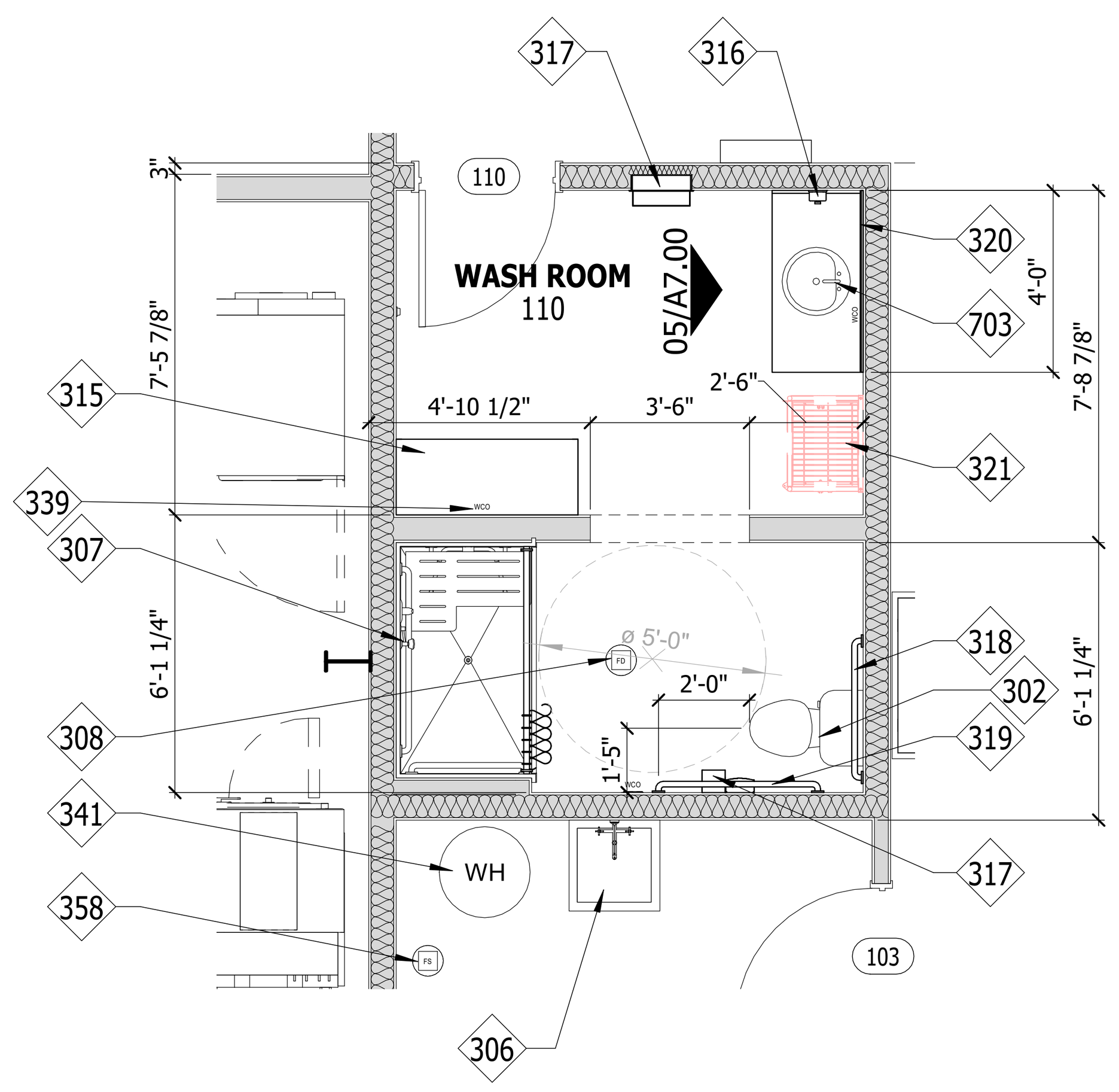
KEYNOTES	XXX
302	PROVIDE NEW ADA COMPLIANT FLOOR MOUNTED TANK TOILET RE:MEP
306	PROVIDE NEW 24"X24" MOLDED-STONE MOP SERVICE BASIN - SHALL HAVE BOTH HOT & COLD WATER SUPPLY AND A DRAIN RE:MEP
307	PROVIDE NEW ADA COMPLIANT PRE-FABRICATED ROLL-IN TYPE FIBERGLASS SHOWER COMPARTMENT WITH INTEGRATED BENCH, GRAB BARS, AND SPRAY HANDLE - RE:MEP - MUST COMPLY WITH CBC 11B-608.2.2
308	PROVIDE FLOOR DRAIN AT LOCATION SHOWN - RE: MEP
310	PROVIDE WATER CONNECTION AND REFRIGERATOR
313	PROVIDE ADA COMPLIANT BI-LEVEL DRINKING FOUNTAIN WITH CANE GUARD - COMPLY WITH ALL TITLE 24 PROVISIONS - RE: MEP
315	PROVIDE ADA COMPLIANT CHANGING BENCH 48" LONG X 22" DEEP X 18" HIGH WITH BACK SUPPORT MINIMUM 18 INCH HIGH ABOVE SEAT AND 2.5 INCH MAX FROM REAR EDGE OF THE SEAT
316	PROVIDE NEW SOAP DISPENSER
317	PROVIDE RECESSED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE
318	PROVIDE NEW 36" ADA GRAB BAR - BRACE WALL AS NECESSARY
319	PROVIDE NEW 42" ADA GRAB BAR - BRACE WALL AS NECESSARY
320	PROVIDE NEW 42"Wx36"H POLISHED PLATE GLASS MIRROR WITH STAINLESS STEEL FRAME
321	PROVIDE NEW TWO-TIER, 24"Wx20"Dx72"H GEARGRID FIRE STORAGE LOCKERS - FINISH: RED BARON - PROVIDE (2)2x BLOCKING FOR WALL LOCKER MOUNTS. PROVIDE SIMPSON WBAC CONNECTOR FROM BLOCKING TO STUDS. ATTACH LOCKER WALL MOUNT BRACKETS TOP AND BOTTOM AT 24" OC WITH 3/8" DIAMETER X2 1/2" LAG SCREWS
328	PROVIDED RANGE AND VENT HOOD AND PROPER CONNECTIONS - RE:MEP
338	DOOR STOP - RE: DOOR SCHEDULE
339	WALL CLEANOUT - RE: MEP
341	WATER HEATER - RE: MEP
356	PROVIDE ADA COMPLIANT BABY CHANGING STATION - BRACE WALL AS NECESSARY
358	FS-1: FLOOR SINK 1 - RE: MEP DRAWINGS
703	PROVIDE PLASTIC LAMINATE COUNTER TOP 4'-0" WIDE 24" DEEP 34" HIGH WITH 4" BACKSPLASH AND DROP IN SINK WITH ADA APRON - BRACE AS NECESSARY
705	PROVIDE PLASTIC LAMINATE COUNTER TOP 3'-6" WIDE 24" DEEP 34" HIGH WITH 4" BACKSPLASH AND DROP IN SINK WITH ADA APRON - BRACE AS NECESSARY
706	PROVIDE STAINLESS STEEL DOUBLE COMPARTMENT SINK WITH FAUCET & ADA COMPLIANT APRON



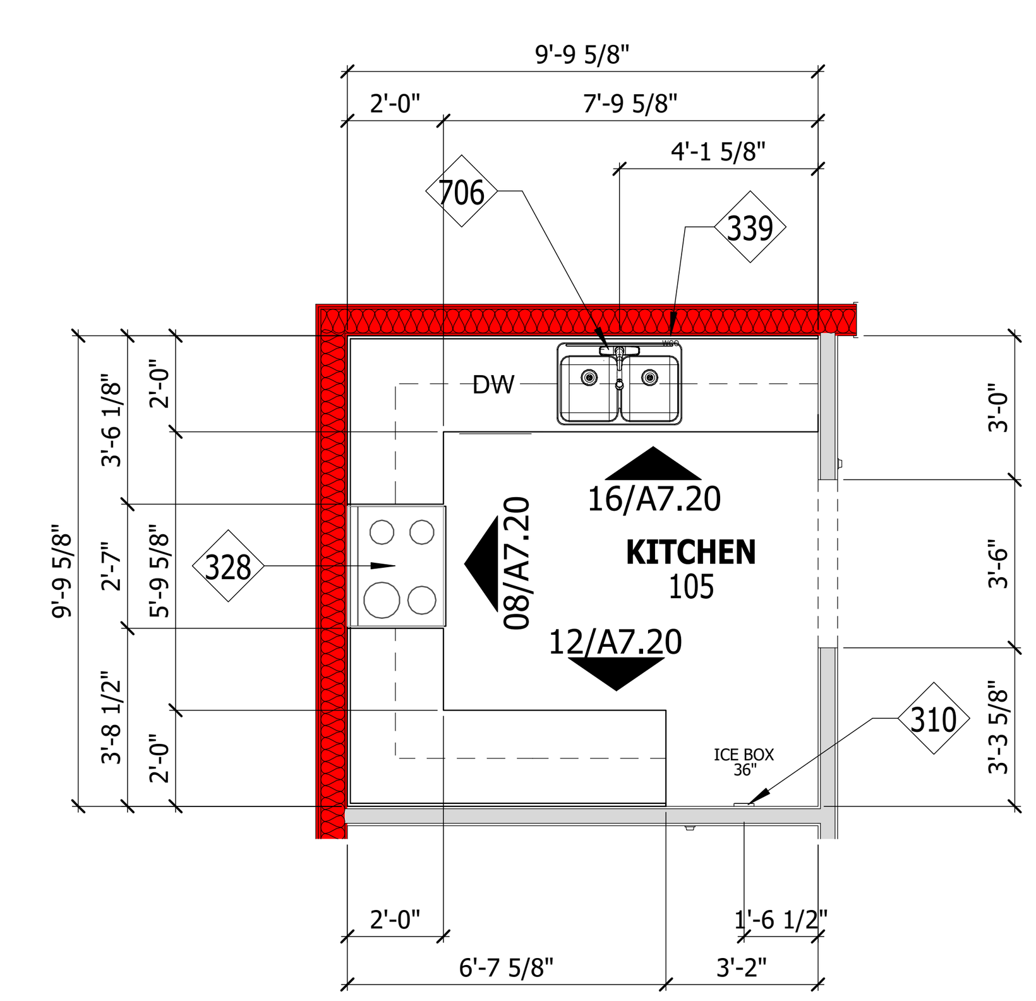
10 ENLARGED UNI-SEX R/R 113 PLAN
1/4" = 1'-0"



06 ENLARGED UNI-SEX R/R 114 PLAN
1/4" = 1'-0"



09 ENLARGED WASH ROOM 110 PLAN
1/4" = 1'-0"



05 ENLARGED KITCHEN PLAN
1/4" = 1'-0"

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DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT
TIMOTHY M HOLT
C-12576
MAY 2023
RENEWAL
DATE
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

[illegible]

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

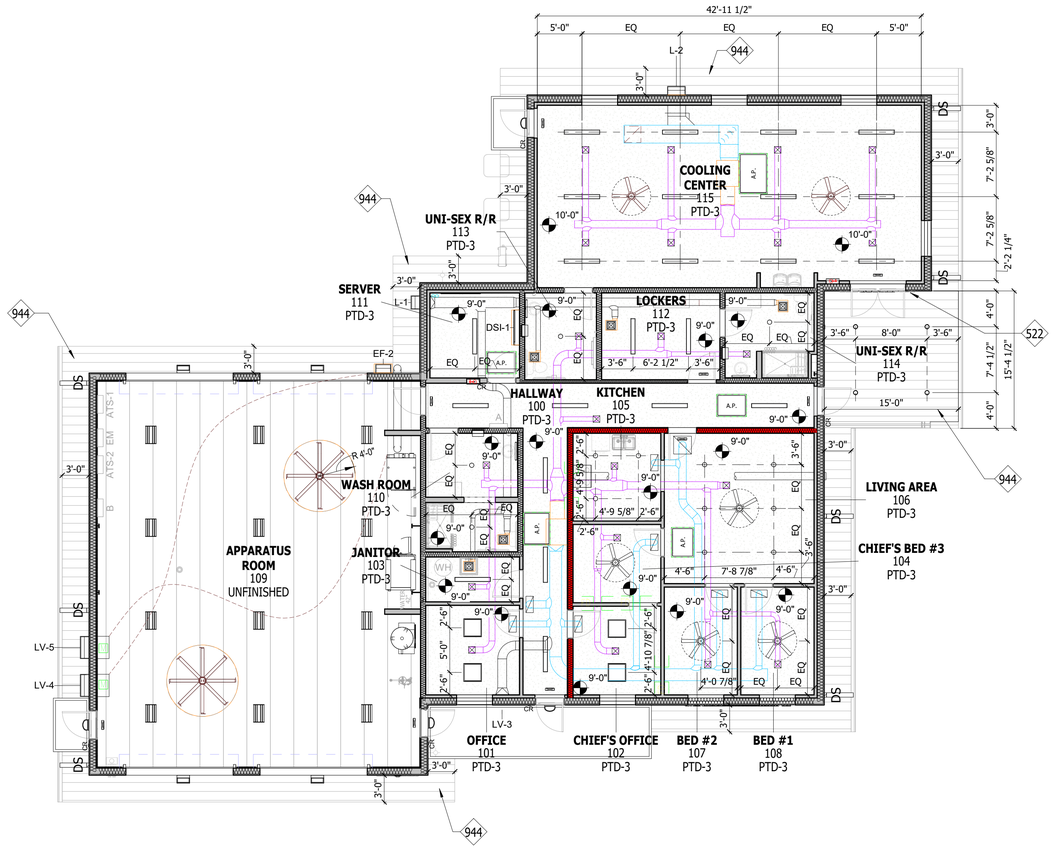
SHEET CONTENT:

ENLARGED PLANS

SHEET
A3.30

OF ___ SHEETS

JOB NO.
1509-00



N

01 REFLECTED CEILING PLAN

1/8" = 1'-0"

KEYNOTES ◇XXX

522	PROVIDE POWER AND BACKLITE "COUNTY COOLING CENTER" SIGN - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
944	MP-6: METAL SOFFIT PANEL - RE: FINISH MATERIALS SCHEDULE

REFLECTED CEILING PLAN LEGEND

- PTD GYP. BD. CEILING
- 4' LINEAR SURFACE MOUNTED LED LIGHT FIXTURE
- LED HIGH-BAY LIGHT FIXTURE
- 6" RECESSED CAN LIGHT
- NEW LED ILLUMINATED EGRESS SIGN
- EXTERIOR EGRESS LIGHT
- EXTERIOR WALL PACK
- EXHAUST FAN - CEILING MOUNTED
- SPOT ELEVATION X'-X" A.F.F.
- ACCESS PANEL (A.P.)
- CEILING FAN
- 8' DIAMETER HVLS FAN

REFLECTED CEILING PLAN NOTES

RE: ELECTRICAL DRAWINGS FOR LIGHTING INFORMATION

CEILING BRACING SHALL BE PROVIDED BY FOUR NO. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING

A STRUT (ADEQUATE TO RESIST THE VERTICAL COMPONENT FROM LATERAL LOADS) FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS OF THE ROOF ABOVE. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FT. ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6 FT. OF EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED

*WHEN EMERGENCY WARNING SYSTEMS OR FIRE ALARMS ARE PROVIDED, THERE SHALL BE APPROVED NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED, INSTALLED IN ACCORDANCE WITH THE NATIONAL STANDARDS PER SECTIONS 907.5.2.1.3 & 11B-702.1 IN THE FOLLOWING AREAS:

I) RESTROOM
II) OCCUPIED ROOMS WHERE AMBIENT NOISE IMPAIRS HEARING OF THE FIRE ALARM
III) MEETING ROOMS

*AUDIBLE AND VISUAL ALARMS WILL COMPLY WITH THE PROVISIONS OF TITLE 24 SECTION 907

ELECTRICAL EQUIPMENT SCHEDULE

IDENTIFICATION	COMMENTS
GENERATOR	RE: MEP DRAWINGS
ATS-1	RE: MEP DRAWINGS
B	RE: MEP DRAWINGS
A	RE: MEP DRAWINGS
EM	RE: MEP DRAWINGS
ATS-2	RE: MEP DRAWINGS

MECHANICAL EQUIPMENT SCHEDULE

IDENTIFICATION	COMMENTS
LV-3	RE: MECHANICAL DRAWINGS
L-1	RE: MECHANICAL DRAWINGS
DSO	RE: MECHANICAL DRAWINGS
CU-2	RE: MECHANICAL DRAWINGS
CU-1	RE: MECHANICAL DRAWINGS
DSI-1	RE: MECHANICAL DRAWINGS
LV-5	RE: MECHANICAL DRAWINGS
EF-2	RE: MECHANICAL DRAWINGS
L-2	RE: MECHANICAL DRAWINGS
LV-4	RE: MECHANICAL DRAWINGS

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DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT — STATE OF CALIFORNIA — MAY 2023 RENEWAL DATE

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

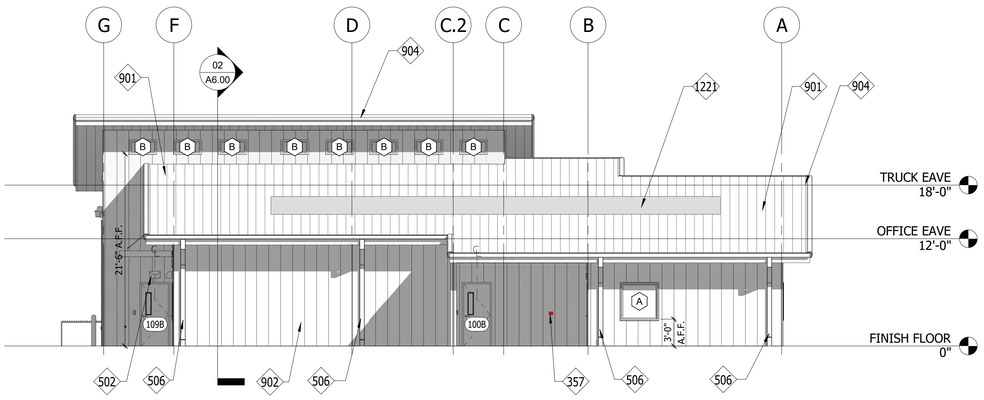
SHEET CONTENT:

REFLECTED CEILING PLAN

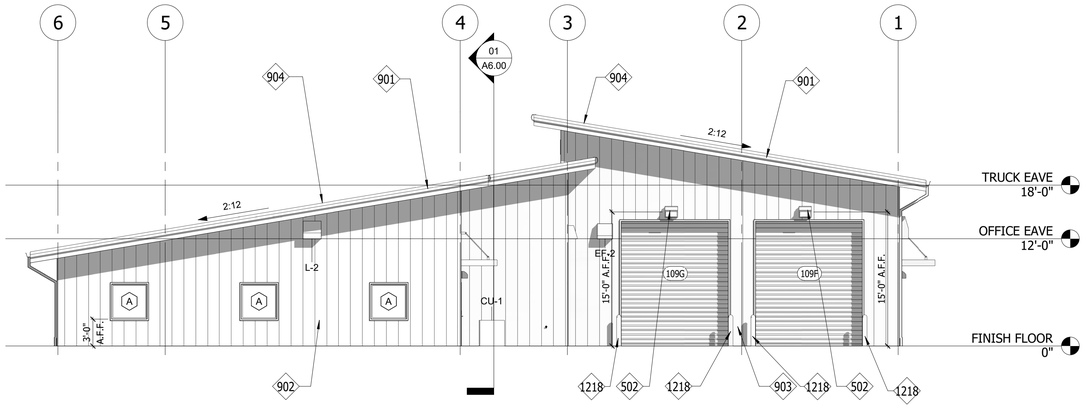
SHEET
A4.00
OF ___ SHEETS

JOB NO.
1509-00

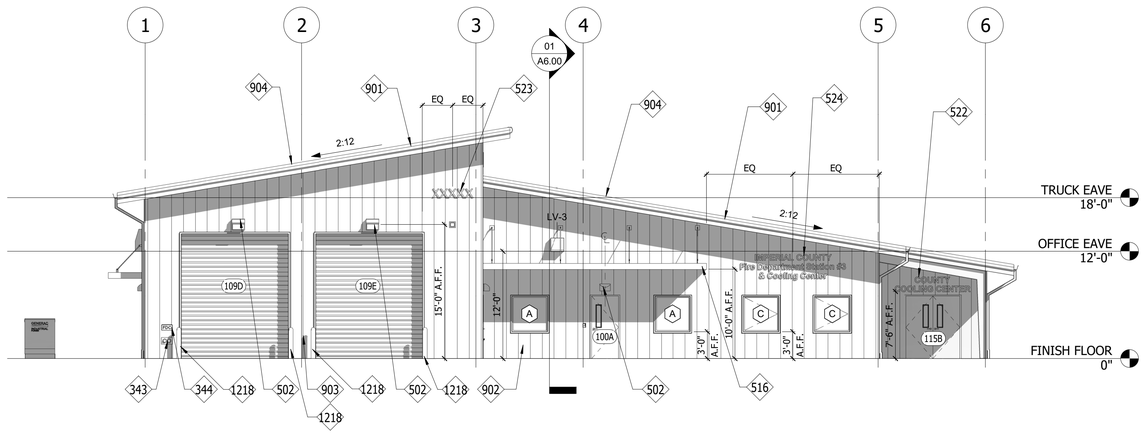
KEYNOTES	XXX
343	FIRE DEPARTMENT CONNECTION
344	FDC SIGN
357	PROVIDE CBC COMPLIANT RECESSED KNOXBOX - BRACE WALL AS NECESSARY
502	PROVIDE NEW LED WALL PACK - RE: MEP
506	METAL DOWNSPOUT - TIE DOWNSPOUTS INTO CIVIL DRAINS - RE: CIVIL DRAWINGS
511	METAL CANOPY 3'-0" PROJECTION x 5'-0" WIDE AT 9' A.F.F. - CENTER OVER DOOR
516	METAL CANOPY 6'-0" PROJECTION x 25'-0" WIDE AT 10' A.F.F.
522	PROVIDE POWER AND BACKLITE "COUNTY COOLING CENTER" SIGN - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
523	PROVIDE SIGN FOR BUILDING ADDRESS - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
524	PROVIDE POWER AND BACKLITE "IMPERIAL COUNTY Fire Department Station #3 & Cooling Center" SIGN - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
901	MP-1: METAL ROOF PANEL - RE: FINISH MATERIALS SCHEDULE
902	MP-2: METAL WALL PANEL - RE: FINISH MATERIALS SCHEDULE
903	MP-3: METAL TRIM AT RAKE, EAVE, GUTTERS, DOWNSPOUTS - RE: FINISH MATERIALS SCHEDULE
904	MP-4: METAL TRIM AT DOORS, WINDOWS, OPENINGS - RE: FINISH MATERIALS SCHEDULE
1122	GENERATOR PAD & DIESEL GENERATOR - RE: MEP DRAWINGS
1218	PROVIDE 6" DIA. CONC. FILLED SCH 40 PIPE; HDPE YELLOW PLASTIC COVER - RE: 08/A1.10
1221	SOLAR READY ZONE



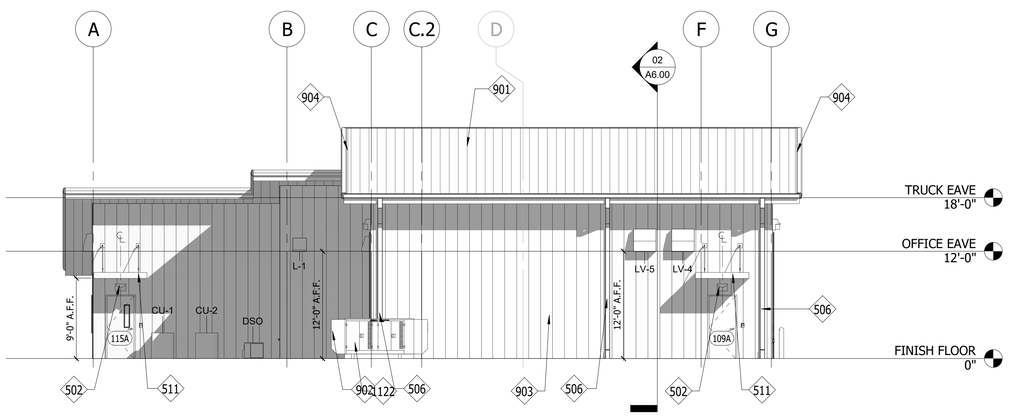
10 EAST ELEVATION
1/8" = 1'-0"



02 NORTH ELEVATION
1/8" = 1'-0"



09 SOUTH ELEVATION
1/8" = 1'-0"



01 WEST ELEVATION
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DESIGN BY:

DRAWN BY: LMH

CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT C-32576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

12576
REGISTRATION NUMBER

05 - 31 - 2023
EXPIRATION

PROJECT TITLE:

SEELEY FIRE STATION & COOLING CENTER

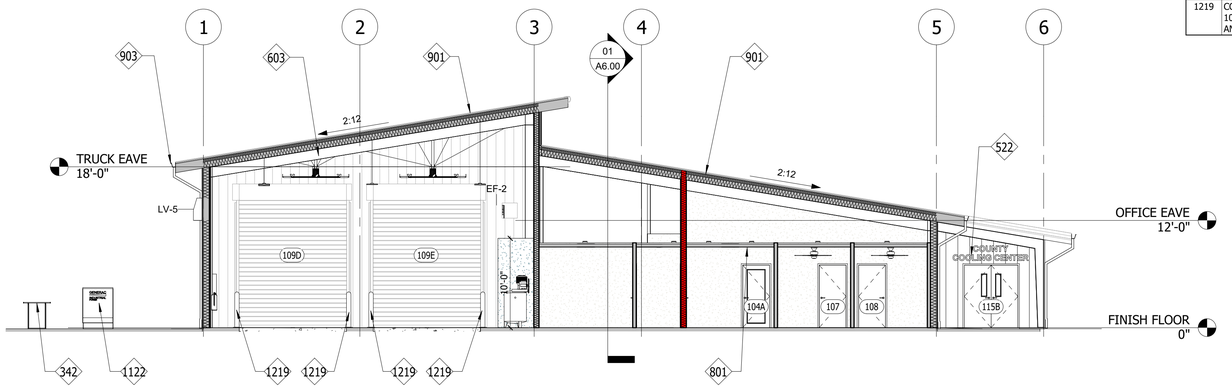
SHEET CONTENT:

EXTERIOR ELEVATIONS

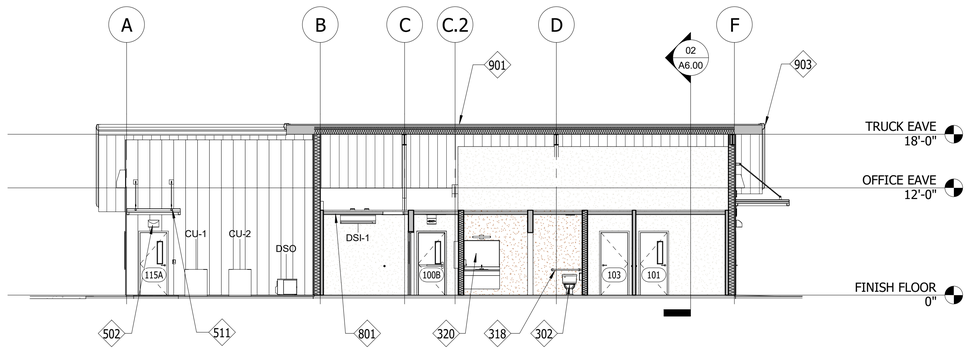
SHEET
A5.00
OF ___ SHEETS

JOB NO.
1509-00

KEYNOTES	XXX
302	PROVIDE NEW ADA COMPLIANT FLOOR MOUNTED TANK TOILET RE:MEP
318	PROVIDE NEW 36" ADA GRAB BAR - BRACE WALL AS NECESSARY
320	PROVIDE NEW 42"Wx36"H POLISHED PLATE GLASS MIRROR WITH STAINLESS STEEL FRAME
342	STEEL RACK FOR DRYING FIRE HOSE - SECURELY ATTACH TO CONCRETE SLAB
502	PROVIDE NEW LED WALL PACK - RE: MEP
511	METAL CANOPY 3'-0" PROJECTION x 5'-0" WIDE AT 9' A.F.F. - CENTER OVER DOOR
522	PROVIDE POWER AND BACKLITE "COUNTY COOLING CENTER" SIGN - DESIGN TO BE SUBMITTED FOR OWNER APPROVAL
603	METAL BUILDING FRAME - RE: PEMB DRAWINGS
801	SCHED. CEILING
901	MP-1: METAL ROOF PANEL - RE: FINISH MATERIALS SCHEDULE
903	MP-3: METAL TRIM AT RAKE, EAVE, GUTTERS, DOWNSPOUTS - RE: FINISH MATERIALS SCHEDULE
1122	GENERATOR PAD & DIESEL GENERATOR - RE: MEP DRAWINGS
1219	CONCRETE FILLED 6" O.D. STEEL PIPE W/ RADIUS CAP, 48" TALL WITH YELLOW HDPE BOLLARD COVER WITH 10" X 12" X 1/2" STEEL BASE PLATE ANCHORED TO CONCRETE BY (4) 1/2" DIAMETER BOLT EXPANSION ANCHORS, PAINT BASE SAFETY YELLOW - RE: 12/A1.10



02 CROSS SECTION
1/8" = 1'-0"



01 LONGITUDINAL SECTION
1/8" = 1'-0"

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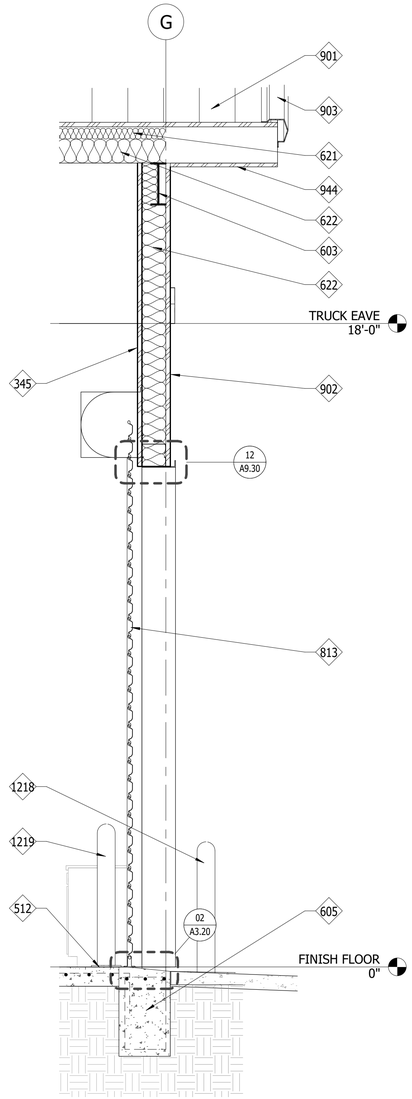
PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

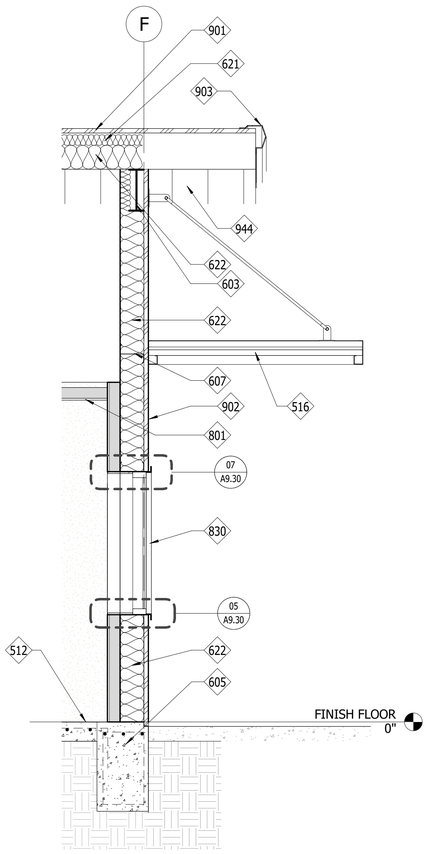
SHEET CONTENT:
BUILDING SECTIONS

SHEET
A6.00
OF ___ SHEETS
JOB NO.
1509-00

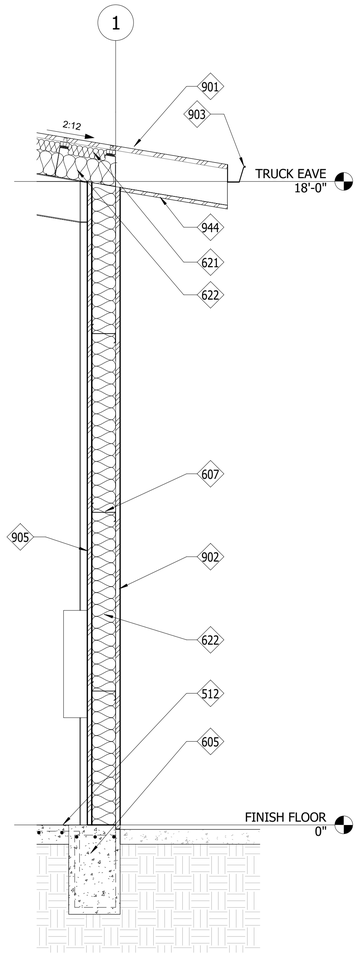
KEYNOTES ◇XXX◇	
345	LINER PANEL TO ROOF - RE: FINISH MATERIALS SCHEDULE
512	FINISHED FLOOR
516	METAL CANOPY 6'-0" PROJECTION x 25'-0" WIDE AT 10' A.F.F.
603	METAL BUILDING FRAME - RE: PEMB DRAWINGS
605	BUILDING FOUNDATION - RE: STRUCTURAL
607	GIRTS (TYP.) - RE: PEMB DRAWINGS
621	(R13) INSULATION
622	(R25) INSULATION
801	SCHED. CEILING
813	OVERHEAD COILING DOOR - RE: DOOR SCHEDULE
830	SCHEDULED WINDOW
834	SCHED. DOOR
901	MP-1: METAL ROOF PANEL - RE: FINISH MATERIALS SCHEDULE
902	MP-2: METAL WALL PANEL - RE: FINISH MATERIALS SCHEDULE
903	MP-3: METAL TRIM AT RAKE, EAVE, GUTTERS, DOWNSPOUTS - RE: FINISH MATERIALS SCHEDULE
905	MP-5: METAL LINER PANEL - RE: FINISH MATERIALS SCHEDULE
944	MP-6: METAL SOFFIT PANEL - RE: FINISH MATERIALS SCHEDULE
1218	PROVIDE 6" DIA. CONC. FILLED SCH 40 PIPE; HDPE YELLOW PLASTIC COVER - RE: 08/A1.10
1219	CONCRETE FILLED 6" O.D. STEEL PIPE W/ RADIUS CAP, 48" TALL WITH YELLOW HDPE BOLLARD COVER WITH 10" X 12" X 1/2" STEEL BASE PLATE ANCHORED TO CONCRETE BY (4) 1/2" DIAMETER BOLT EXPANSION ANCHORS, PAINT BASE SAFETY YELLOW - RE: 12/A1.10



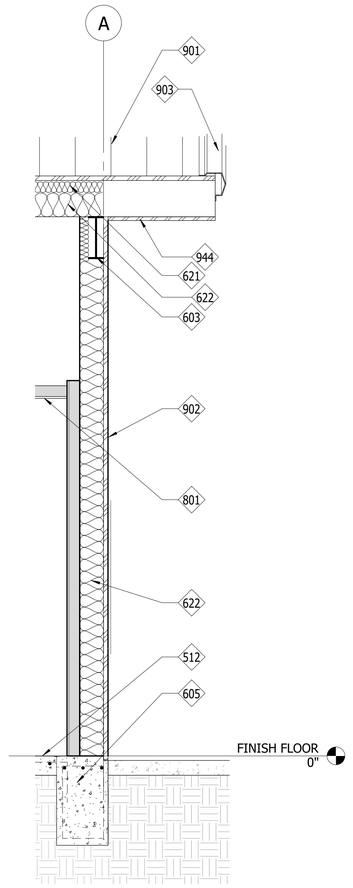
13 O.H. DOOR SECTION
1/2" = 1'-0"



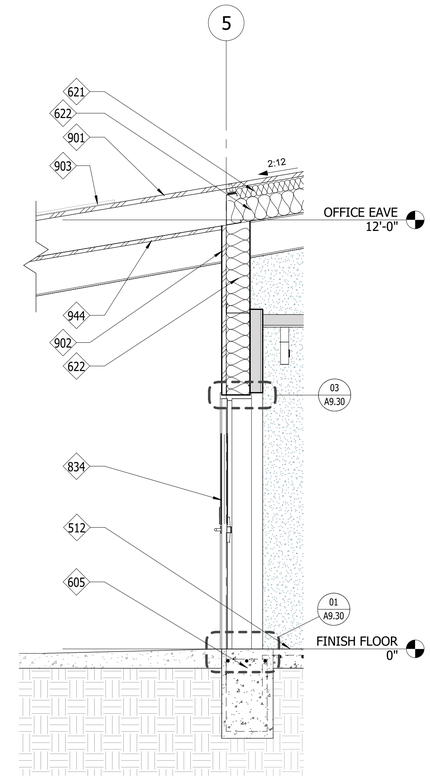
09 WINDOW SECTION
1/2" = 1'-0"



05 APPARATUS WALL SECTION
1/2" = 1'-0"



03 FINISHED WALL SECTION
1/2" = 1'-0"



01 DOOR SECTION
1/2" = 1'-0"

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT STATE OF CALIFORNIA
MAY 2023 RENEWAL DATE

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

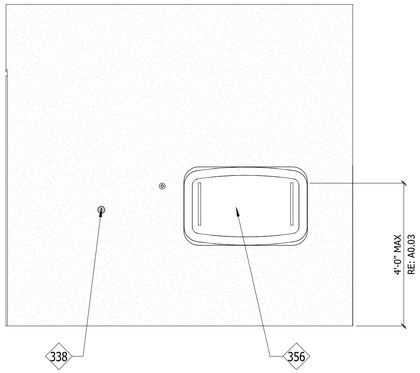
SHEET CONTENT:
WALL SECTIONS

SHEET
A6.10
OF ___ SHEETS
JOB NO.
1509-00

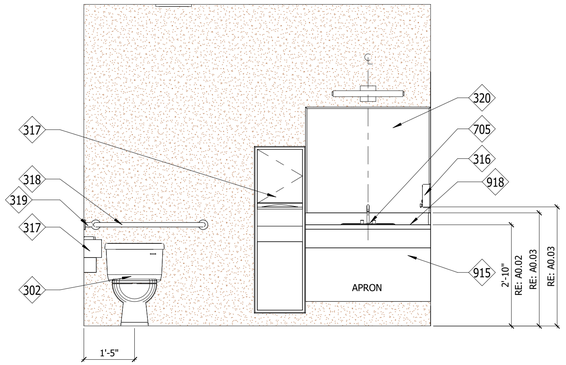
KEYNOTES	XXX
302	PROVIDE NEW ADA COMPLIANT FLOOR MOUNTED TANK TOILET RE:MEP
307	PROVIDE NEW ADA COMPLIANT PRE-FABRICATED ROLL-IN TYPE FIBERGLASS SHOWER COMPARTMENT WITH INTEGRATED BENCH, GRAB BARS, AND SPRAY HANDLE - RE:MEP - MUST COMPLY WITH CBC 11B-608.2.2
315	PROVIDE ADA COMPLIANT CHANGING BENCH 48" LONG X 22" DEEP X 18" HIGH WITH BACK SUPPORT MINIMUM 18 INCH HIGH ABOVE SEAT AND 2.5 INCH MAX FROM REAR EDGE OF THE SEAT
316	PROVIDE NEW SOAP DISPENSER
317	PROVIDE RECESSED COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE
318	PROVIDE NEW 36" ADA GRAB BAR - BRACE WALL AS NECESSARY
319	PROVIDE NEW 42" ADA GRAB BAR - BRACE WALL AS NECESSARY
320	PROVIDE NEW 42"Wx36"H POLISHED PLATE GLASS MIRROR WITH STAINLESS STEEL FRAME
321	PROVIDE NEW TWO-TIER, 24"Wx20"Dx72"H GEARGRID FIRE STORAGE LOCKERS - FINISH: RED BARON - PROVIDE (2)2x BLOCKING FOR WALL LOCKER MOUNTS. PROVIDE SIMPSON WBAC CONNECTOR FROM BLOCKING TO STUDS. ATTACH LOCKER WALL MOUNT BRACKETS TOP AND BOTTOM AT 24" OC WITH 3/8" DIAMETER X2 1/2" LAG SCREWS
338	DOOR STOP - RE: DOOR SCHEDULE
356	PROVIDE ADA COMPLIANT BABY CHANGING STATION - BRACE WALL AS NECESSARY
705	PROVIDE PLASTIC LAMINATE COUNTER TOP 3'-6" WIDE 24" DEEP 34" HIGH WITH 4" BACKSPLASH AND DROP IN SINK WITH ADA APRON - BRACE AS NECESSARY
915	PL-2: PLASTIC LAMINATE COUNTERTOPS - RE: FINISH MATERIALS SCHEDULE
918	SS-1: STAINLESS STEEL COUNTERTOP WITH MATCHING 4" BACKSPLASH, TYP. AROUND ALL COUNTERTOPS - RE: FINISH MATERIALS SCHEDULE

ADAA COMPLIANCE NOTES

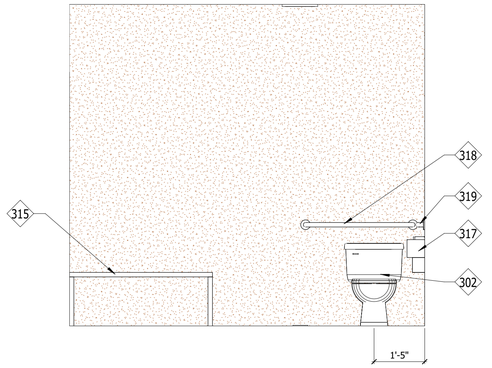
REFER TO SHEETS A0.02 - A0.05 FOR ALL ACCESSIBILITY STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO:
OPERABLE PART MOUNTING HEIGHTS, REACH RANGES, PROTRUDING OBJECTS, CHANGES IN LEVEL, ETC...



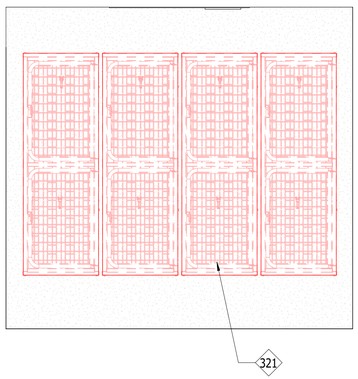
14 UNI-SEX R/R 113 - EAST ELEV.
1/2" = 1'-0"



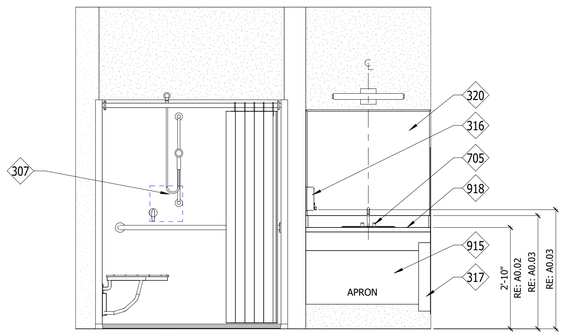
10 UNI-SEX R/R 113 - WEST ELEV.
1/2" = 1'-0"



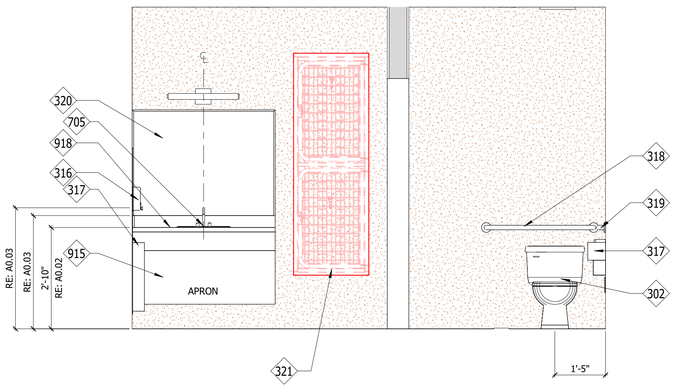
06 UNI-SEX R/R 114 - NORTH ELEV.
1/2" = 1'-0"



13 LOCKERS 112 - WEST ELEV.
1/2" = 1'-0"



09 UNI-SEX R/R 114 - SOUTH ELEV.
1/2" = 1'-0"



05 WASHROOM 110 - EAST ELEV.
1/2" = 1'-0"

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4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08

UNAUTHORIZED CHANGES & USES: The architect preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT C-32576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
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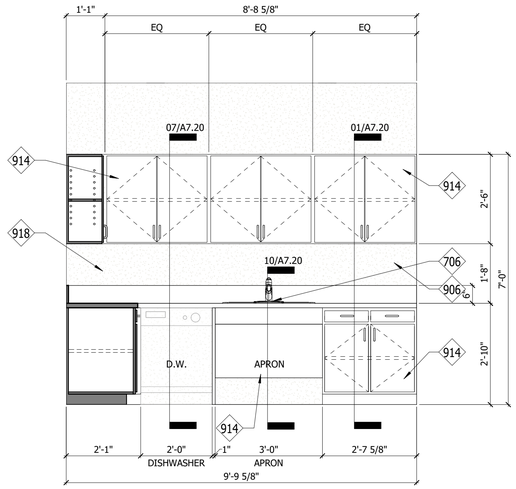
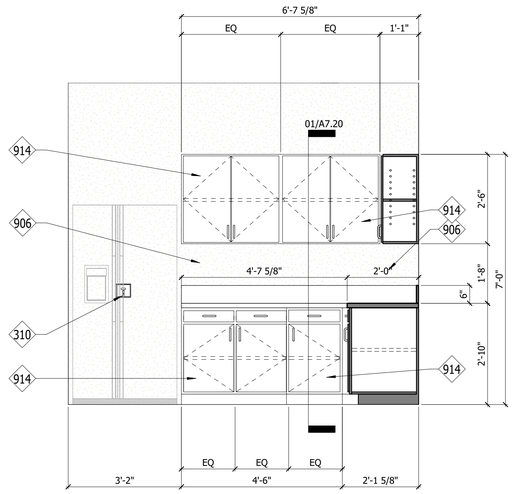
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
INTERIOR ELEVATIONS

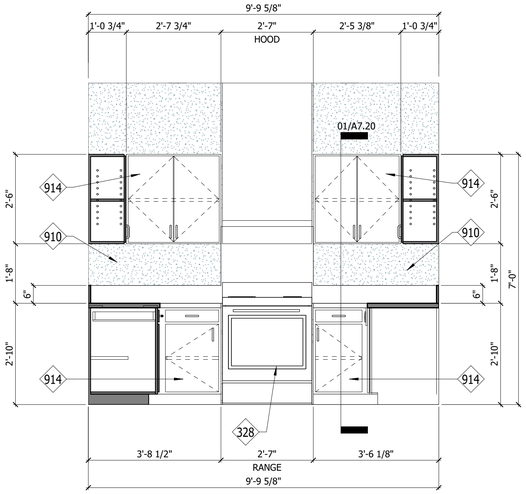
SHEET
A7.00
OF ___ SHEETS
JOB NO.
1509-00



16 KITCHEN 105 - NORTH ELEV.
1/2" = 1'-0"



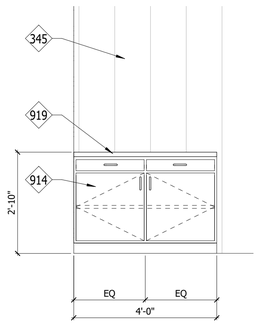
12 KITCHEN 105 - SOUTH ELEV.
1/2" = 1'-0"



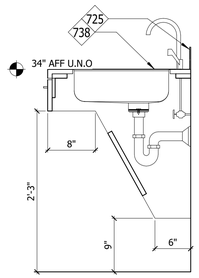
08 KITCHEN 105 - WEST ELEV.
1/2" = 1'-0"

KEYNOTES

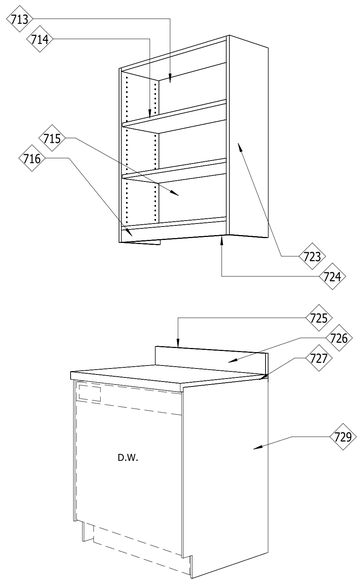
310	PROVIDE WATER CONNECTION AND REFRIGERATOR
328	PROVIDED RANGE AND VENT HOOD AND PROPER CONNECTIONS - RE:MEP
345	LINER PANEL TO ROOF - RE: FINISH MATERIALS SCHEDULE
706	PROVIDE STAINLESS STEEL DOUBLE COMPARTMENT SINK WITH FAUCET & ADA COMPLIANT APRON
713	CABINET BACK: 1/2" PARTICLE BOARD ONSET BACKS
714	SHELF EDGE: EXTRUDED PVC EDGE BAND
715	INTERIOR OF CABINET: PVC LAMINATE
716	2-1/2" VALANCE: REFER TO ELEVATIONS FOR LIGHTING LOCATIONS
717	DOOR & DRAWER PULL: REFER TO HARDWARE ACCESSORIES
718	INTERIOR OF CLOSED CABINET: THERMALLY FUSED MELAMINE; COLOR: WHITE
719	POLYURETHANE DOOR BUMPERS; 3/8" DIAMETER X 1/8" THICK; CLEAR
720	HINGE: REFER TO HARDWARE ACCESSORIES
721	BODY FRONT EDGING, 1MM PVC LAMINATE
722	TOE KICK: 4" HIGH X 3" DEEP; PVC LAMINATE AT ALL EXPOSED AREAS
723	EXPOSED ENDS: PLASTIC LAMINATE
724	WALL UNIT BOTTOM: PLASTIC LAMINATE
725	4" HIGH BACKSPLASH WHERE SHOWN ON ELEVATIONS - MATCH COUNTERTOP FINISH
726	COUNTERTOP: PLASTIC LAMINATE
727	FULL SUBTOP
728	CABINET CORE MATERIAL: 3/4" PARTICLE BOARD
729	FACE EXTERIOR SURFACE MATERIAL: PLASTIC LAMINATE
730	SUBBASE: WATER-RESISTANT, EXTERIOR GRADE PLYWOOD, LADDER-TYPE SYSTEM
731	DRAWER SLIDES: REFER TO HARDWARE ACCESSORIES
732	DRAWER EDGE: 3MM EXTRUDED PVC, FLAT SHAPED, SMOOTH FINISH; PRODUCT: EDGECO INC.; COLOR: MATCH LAMINATE MATERIAL COLOR AND WOOD GRAIN
733	PLAM ADJUST SHELF
734	SCHED FINISH ON 3/4" SUBSTRATE RE: ELEV
735	PLAM INTERIOR FINISH ALL SURFACES
737	WIRE GROMMET IF NOTED ON PLAN AND INTERIOR ELEVATIONS
738	SCHED PLAM TOP RE: ELEV
739	REDUCED DRAWER DEPTH AT OUTLET LOCATION
740	SCHED FINISH ON 3/4" SUBSTRATE RE: ELEV
741	ELECTRICAL OUTLET IF NOTED ON INTERIOR ELEVATIONS
742	PLAM INTERIOR FINISH ALL SURFACES
906	PTD-1: PAINT - RE: FINISH MATERIALS SCHEDULE
910	PTD-5: PAINT - RE: FINISH MATERIALS SCHEDULE
914	PL-1: PLASTIC LAMINATE CABINET FRONTS - RE: FINISH MATERIALS SCHEDULE
918	SS-1: STAINLESS STEEL COUNTERTOP WITH MATCHING 4" BACKSPLASH, TYP. AROUND ALL COUNTERTOPS - RE: FINISH MATERIALS SCHEDULE
919	QTZ-1: QUARTZ COUNTERTOP - RE: FINISH MATERIALS SCHEDULE



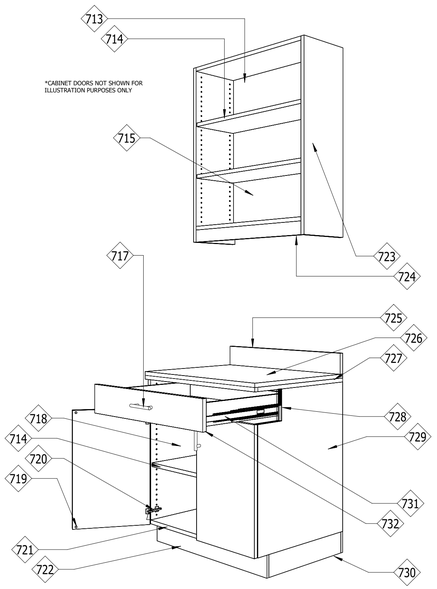
13 APPARATUS - SOUTH ELEV.
1/2" = 1'-0"



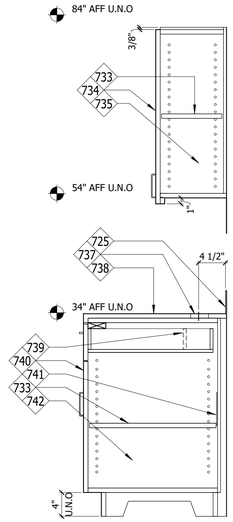
10 SINK DETAIL
1" = 1'-0"



07 ARCH. CASEWORK DETAIL - D.W.
3/16" = 1'-0"



05 ARCH. CASEWORK DETAIL - TYP.
3/16" = 1'-0"



01 CABINET DETAILS
1" = 1'-0"

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SHEET CONTENT:
MILLWORK DETAILS

SHEET
A7.20
OF ___ SHEETS

JOB NO.
1509-00

FINISH SCHEDULE REMARKS

1. PROVIDE RB-1 ON ALL GYP. WALLS - UNLESS NOTED OTHERWISE (U.N.O.)
2. NOT USED
3. UNFINISHED = EXPOSED PRE-ENGINEERED METAL BUILDING (CEILINGS ARE OPEN TO DECK)
4. SC-1: SEALED CONCRETE - FLOORING SUBCONTRACTOR MUST SUBMIT FLOOR SEALING SYSTEM FOR APPROVAL BY MBA PRIOR TO INSTALLATION. APPLY SEALER PER MANUFACTURER'S RECOMMENDATIONS INCLUDING ALL NECESSARY PREPARATION WORK
5. PROVIDE 4'x8'x3/4" FIRE RESISTANT PLYWOOD TO 8'-0" A.F.F.
6. PTD-2: EPOXY PAINT FOR WET WALLS - MATCH PAINT COLOR WHERE SPECIFIED ON FINISH FLOOR PLAN
7. PROVIDE FLOORING FINISH TRANSITION - RE: A9.10

FINISH NOTES

PER THE IBC, WALLS WITHIN TWO (2) FEET OF URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE TO A HEIGHT OF FOUR (4) FEET A.F.F. AND EXCEPT FOR STRUCTURAL ELEMENTS. THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES PROVIDED ON OR WITHIN SUCH WALLS SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

WHEN GYPSUM BOARD IS USED AS A SUBSTRATE FOR TILE OR WALL PANELS FOR TILE OR WALL PANELS FOR TUBS, SHOWER OR WATER CLOSET COMPARTMENT WALLS, WATER-RESISTANT GYPSUM BACKING BOARD SHALL BE USED AS A SUBSTRATE

- STANDARD WALL PRIMER: SHERWIN WILLIAMS PROMAR 200 ZERO VOC B28W2600
- STANDARD WALL PAINT: SHERWIN WILLIAMS PROMAR 200 EGG-SHELL OR EQUAL
- COLORS SHOULD BE APPLIED IN BLOCKS (DO NOT BREAK OR CHANGE COLORS ON OUTSIDE CORNERS)
- PROVIDE STANDARD RESTROOM ACESSORIES INCLUDING MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, AND ADA COMPLIANT GRAB BARS
- ALL RUBBER BASE TO BE APPLIED SO THAT SEAMS ARE LOCATED AT WALL CORNERS - 48" BASE SECTIONS ARE NOT PERMITTED

WALL FINISH NOTES

- ALL OFFICE WALLS TO BE LEVEL 4 FINISH U.N.O.

REFER TO A9.50 - PARTITION TYPES FOR LEVEL FINISH INFORMATION

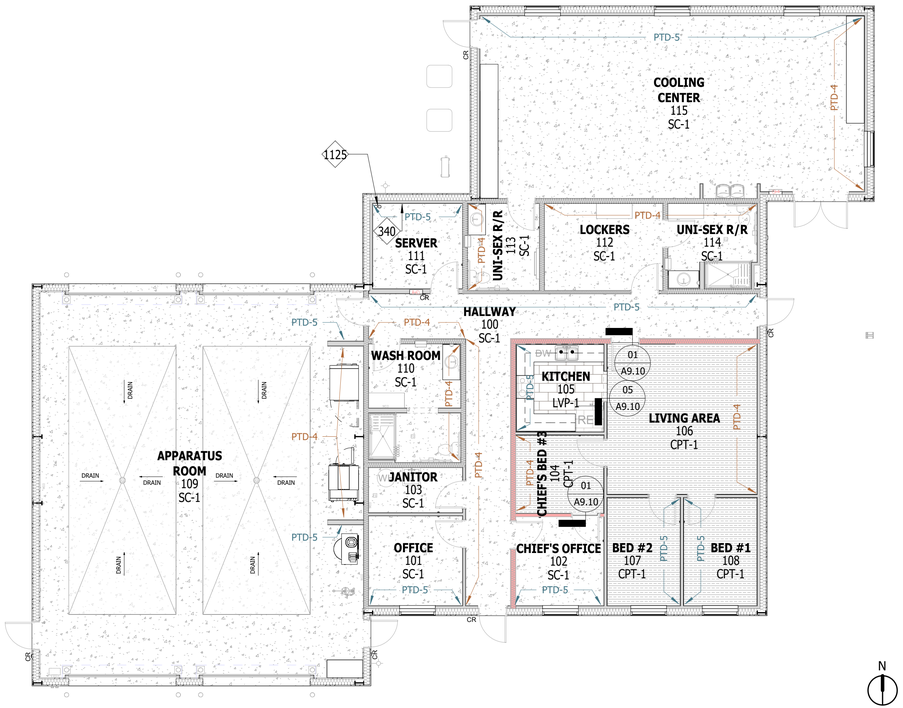
-ALL OUTSIDE CORNERS TO HAVE SQUARE CORNER BEADS

FINISH SCHEDULE - ROOM

ROOM #	ROOM NAME	FLOOR	BASE	CEILINGS	WALLS (BASED ON PLAN NORTH) NORTH	EAST	SOUTH	WEST	REMARKS
100	HALLWAY	SC-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-4/PTD-5	PTD-1	4
101	OFFICE	SC-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-5	PTD-1	4
102	CHIEF'S OFFICE	SC-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-5	PTD-1	4
103	JANITOR	SC-1	RB-1	PTD-3	PTD-2	PTD-1	PTD-1	PTD-2	4, 6
104	CHIEF'S BED #3	CPT-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-1	PTD-4	7
105	KITCHEN	LVP-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-1	PTD-5	6, 7
106	LIVING AREA	CPT-1	RB-1	PTD-3	PTD-1	PTD-4	PTD-1	PTD-1	7
107	BED #2	CPT-1	RB-1	PTD-3	PTD-1	PTD-5	PTD-1	PTD-1	
108	BED #1	CPT-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-1	PTD-5	
109	APPARATUS ROOM	SC-1	LP-1	UNFINISHED	LP-1	PTD-1/LP-1/PTD-2/PTD-4/PTD-5	LP-1	LP-1	1, 3, 4, 6
110	WASH ROOM	SC-1	RB-1	PTD-3	PTD-1	PTD-2/PTD-4	PTD-1	PTD-1	4, 6
111	SERVER	SC-1	RB-1	PTD-3	PTD-5	PTD-1	PTD-1	PTD-1	4, 5
112	LOCKERS	SC-1	RB-1	PTD-3	PTD-4	PTD-1	PTD-1	PTD-1	4
113	UNI-SEX R/R	SC-1	RB-1	PTD-3	PTD-1	PTD-1	PTD-1	PTD-2/PTD-4	4, 6
114	UNI-SEX R/R	SC-1	RB-1	PTD-3	PTD-2/PTD-4	PTD-1	PTD-2	PTD-1	4, 6
115	COOLING CENTER	SC-1	RB-1	PTD-3	PTD-5	PTD-4	PTD-1/PTD-2	PTD-1	4, 6

KEYNOTES

340	PROVIDE 4'x8'x3/4" FIRE RESISTANT PLYWOOD TO 8'-0" A.F.F. FOR TELEPHONE TERMINAL BOARD "TTB" - REFER TO PLAN FOR LOCATION
1125	PROVIDE (2) 4" CONDUITS FOR AT&T/SPECTRUM - RE: ELECTRICAL DRAWINGS



N

01 FINISH FLOOR PLAN
1/8" = 1'-0"

FINISH MATERIALS SCHEDULE - EXTERIOR

ID	PRODUCT INFORMATION	APPEARANCE
AL-1	ALUMINUM WINDOW FRAME FINISH: ANNODIZED	
MP-1	METAL PANEL 1 STANDING SEAM METAL ROOF COPPER METALLIC RE: PEMB DRAWINGS FIRE CLASSIFICATION: CLASS A	
MP-2	METAL PANEL 2 EXTERIOR WALL SHEATHING - APPARATUS BUILDING CUSTOM PANEL SYSTEMS STUCCO FINISH - DUSK COLOR FIRE CLASSIFICATION: CLASS A	
MP-3	METAL PANEL 3 EXTERIOR WALL SHEATHING - MAIN BUILDING CUSTOM PANEL SYSTEMS STUCCO FINISH - ADOBE COLOR FIRE CLASSIFICATION: CLASS A	
MP-4	METAL PANEL 4 PEMB RAKE/EAVE TRIM, GUTTERS METALLIC COPPER RE: PEMB DRAWINGS FIRE CLASSIFICATION: CLASS A	
MP-6	METAL PANEL 5 PEMB SOFFIT PANEL POLAR WHITE RE: PEMB DRAWINGS	
MP-7	METAL PANEL 7 PEMB DOWNSPOUTS/DOORS/WINDOW TRIM COAL BLACK RE: PEMB DRAWINGS FIRE CLASSIFICATION: CLASS A	
OH-D	OVERHEAD DOOR PANELS MANUFACTURER: CORNELL FINISH TBD	
PTD-6	EXTERIOR H.M. DOORS SHERWIN WILLIAMS STOP - SW6869 FINISH: SEMI-GLOSS	
PTD-7	EXTERIOR/INTERIOR H.M. FRAMES SHERWIN WILLIAMS IRON ORE - SW7069 FINISH: SEMI-GLOSS	

FINISH MATERIALS SCHEDULE - INTERIOR

ID	PRODUCT INFORMATION	APPEARANCE
CPT-1	CARPET 1 J&J FLOORING Z FACTOR - MARGIN PATTERN: BASKETWEAVE	
DF-1	INTERIOR KNOCK-DOWN DOOR FRAMES TIMELY CLASSIC C-SERIES ALUMATONE CASING TA-28 SC 101 BLACK	
LVP-1	LUXURY VINYL PLANK MOHAWK - LVP FLOORING PREMIUM WOOD - 96 SHADOW PATTERN: OFFICE SET 7.72"Wx51.97"L 20 MIL	
MP-5	METAL PANEL 5 PEMB LINER PANEL POLAR WHITE RE: PEMB DRAWINGS	
MWP-1	MILLWORK PULLS BRUSHED ALUMINUM BAR PULL	
PL-1	PLASTIC LAMINATE SC DOORS WILSONART FAWN CYPRESS - 8208K-16 FINISH: CASUAL RUSTIC	
PL-2	PLASTIC LAMINATE CABINETS WILSONART BLACKBIRD - 5024K-19 FINISH: FINE LENO WEAVE	
PLY-1	PLYWOOD 1 3/4" FIRE RESISTANT PLYWOOD TO 8'-0" A.F.F.	
PTD-1	INTERIOR WALLS U.N.O. SHERWIN WILLIAMS NUANCE - SW7049 FINISH: EG-SHELL	
PTD-3	PAINTED GYP. CEILINGS SHERWIN WILLIAMS CEILING BRIGHT WHITE - SW7007 FINISH: SATIN	
PTD-4	ACCENT PAINT 1 SHERWIN WILLIAMS COPPER POT - SW7709 FINISH: EG-SHELL RE: FINISH FLOOR PLAN FOR LOCATIONS	
PTD-5	ACCENT PAINT 2 SHERWIN WILLIAMS SILKEN PEACOCK - SW9059 FINISH: EG-SHELL RE: FINISH FLOOR PLAN FOR LOCATIONS	
PTD-8	INTERIOR H.M. DOORS SHERWIN WILLIAMS NUANCE - SW7049 SEMI-GLOSS SHEEN	
PTD-9	INTERIOR H.M. FRAMES SHERWIN WILLIAMS IRON ORE - SW7069 FINISH: SEMI-GLOSS	
QTZ-1	QUARTZ COUNTERTOP DALTILE OQN9 WOVEN WOOL FINISH: POLISHED 3CM - 1/4" EDGE	
RB-1	RUBBER BASE ALL GYP. WALLS U.N.O. ROPPE BLACK BROWN 193 4" COVE	
SC-1	SEALED CONCRETE RE: FINISH SCHEDULE REMARKS	
SS-1	STAINLESS STEEL 1 COUNTERTOPS FINISH: BRUSHED 4" BACKSPLASH	

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NO.	REVISIONS:	APPROVED	DATE
2	75% REVIEW SET		2022/02/18
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT — SIGNED — MAY 2023 RENEWAL DATE — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022 DATE

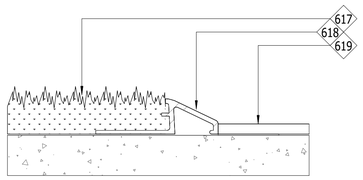
12576 REGISTRATION NUMBER
05 - 31 - 2023 EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

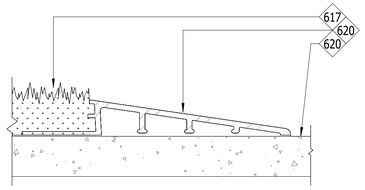
SHEET CONTENT:
FINISH FLOOR PLAN & SCHEDULES

SHEET A9.00
OF ___ SHEETS
JOB NO. 1509-00

KEYNOTES	XXX
617	CARPET - RE: FINISH MATERIALS SCHEDULE
618	CARPET TO LUXURY VINYL PLANK METAL TRANSITION
619	LUXURY VINYL PLANK - RE: FINISH MATERIALS SCHEDULE
620	CARPET TO SEALED CONCRETE METAL TRANSITION



05 CPT-1 TO LVP-1
3/8" = 1'-0"



01 SC-1 TO CPT-1
3/8" = 1'-0"

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LICENCED ARCHITECT TIMOTHY M HOLT C-12576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:

TIMOTHY M. HOLT, A.I.A.

07/08/2022
DATE

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SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:

FINISH DETAILS

SHEET
A9.10
OF ___ SHEETS

JOB NO.
1509-00

LOCK SET LEGEND

SET	TYPE	DESCRIPTION	IMAGE
1	ENTRY LOCKSET	DEADLOCKING LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE EXCEPT WHEN OUTSIDE LEVER IS LOCKED FROM OUTSIDE WITH KEY. WHEN OUTSIDE LEVER IS LOCKED, LATCHBOLT IS OPERATED BY KEY IN OUTSIDE LEVER OR BY ROTATING INSIDE LEVER	
2	PASSAGE SET	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE AT ALL TIMES	
3	INTERIOR LOCKSET	TURN/PUSH BUTTON LOCKING. PUSHING AND TURNING BUTTON LOCKS OUTSIDE LEVER REQUIRING USE OF KEY UNTIL BUTTON IS MANUALLY UNLOCKED. PUSHING BUTTON LOCKS OUTSIDE LEVER UNTIL UNLOCKED WITH KEY OR INSIDE LEVER IS TURNED. DEADLOCKING LATCHBOLT OPERATED BY INSIDE LEVER AT ALL TIMES	
4	PRIVACY LOCKSET	LATCHBOLT OPERATED BY LEVER FROM EITHER SIDE. OUTSIDE LEVER IS LOCKED BY PUSH BUTTON INSIDE AND UNLOCKED BY EMERGENCY RELEASE OUTSIDE, ROTATING INSIDE LEVER OR CLOSING DOOR	
5	PUSH/PULL SET	PUSH PLATE AND PULL HANDLE WITH PLATE - NO LATCHING OR LOCKING CAPABILITIES	
6	STOREROOM LOCKSET	DEADLOCKING LATCHBOLT OPERATED BY KEY IN OUTSIDE LEVER OR ROTATING INSIDE LEVER. OUTSIDE LEVER IS ALWAYS LOCKED	
7	OVERHEAD DOOR	HARDWARE BY MANUFACTURER	

DOOR SCHEDULE NOTES

1. PROVIDE A READILY VISIBLE SIGN ON THE EGRESS SIDE OR ADJACENT TO THE DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN THE SPACE IS OCCUPIED" PER CBC, SECTION 1010.1.9.4(#2)(2.2)
2. ALL DOORS AND HARDWARE SHALL COMPLY WITH ALL SECTION OF THE ACCESSIBILITY STANDARDS, INCLUDING BUT NOT LIMITED TO, SECTIONS 404.2.7 - 404.2.8 - 404.2.9
3. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE PER CBC, SECTION 1010.1.9
4. LOCKING DEVICES SHALL BE READILY DISTINGUISHABLE AS LOCKED PER CBC, SECTION 1010.1.9.4(#2)(2.1)
5. ALL OVERALL DIMENSIONS ARE NOMINAL
6. UNLESS NOTED OTHERWISE, GLASS TYPE IS TYPE "1"
7. VERIFY ROUGH OPENING DIMENSIONS IN FIELD PRIOR TO FABRICATION
8. ALL 7'-0" TALL DOORS TO HAVE (3) FULLY MORTISED HINGES; ALL 9'-0" TALL DOORS TO HAVE (4) FULLY MORTISED HINGES
9. SWINGING DOORS WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR BRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED
10. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
    A. INTERIOR HINGED DOORS AND GATES - 5 POUNDS MAXIMUM
    B. REQUIRED FIRE DOORS - THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS
    C. EXTERIOR HINGED DOORS - 5 POUNDS MAXIMUM

ABBREVIATIONS

1. H.M. = HOLLOW METAL , ALUM. = ALUMINUM , PL = PLASTIC LAMINATE , STL. = STEEL
   S.C. = SOLID CORE, O.H. = OVERHEAD, PTD = PAINTED

DOOR GLASS NOTES

GLASS TYPE 1 = 1/4" THICK - TEMPERED
GLASS TYPE 2 = FIRE RATED GLAZING - COMPLY WITH D-H-45 REQUIREMENTS

DOOR SCHEDULE REMARKS

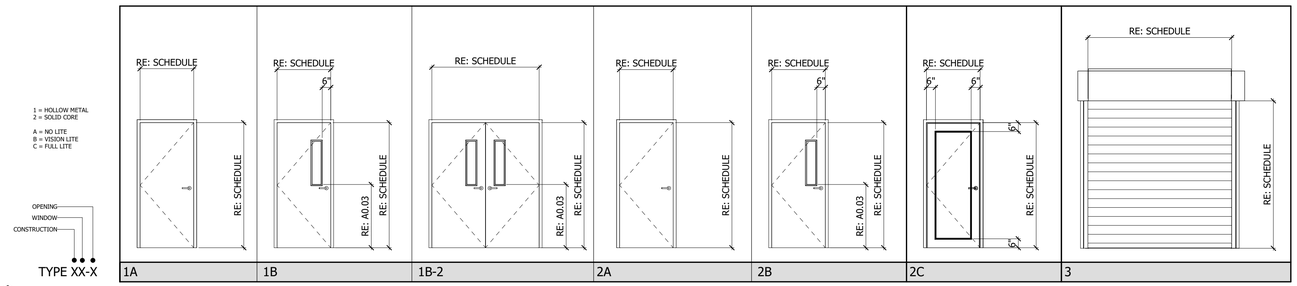
1. GLAZING SUBJECT TO HUMAN IMPACT LOADS AND IN ALL HAZARDOUS LOCATIONS SHALL COMPLY WITH CBC SECTION 2406 (INCLUDING 2406.1, 2406.2, 2406.3, & 2406.4.1 through 2604.4.7). STOREFRONT GLASS DOORS AND ADJACENT GLASS PANELS SHALL BE SAFETY/IMPACT RESISTANT GLASS
2. DOOR & DOOR FRAME TO BE PREPARED FOR ACCESS CONTROL - PROVIDE CONDUIT AND PULL STRING - ACCESS CONTROL BY OTHERS
3. A TRIANGLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO MEN'S TOILET AND BATHING FACILITIES. THE TRIANGLE SYMBOL SHALL BE AN EQUILATERAL TRIANGLE 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND A VERTEX POINTING UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND
4. A CIRCLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO WOMEN'S TOILET AND BATHING FACILITIES. THE CIRCLE SYMBOL SHALL BE 1/4 INCH THICK AND 12 INCHES IN DIAMETER. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE CIRCLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND
5. A COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL BE LOCATED AT ENTRANCES TO UNISEX TOILET AND BATHING FACILITIES. THE COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL CONSIST OF A CIRCLE SYMBOL 1/4 INCH THICK AND 12 INCHES IN DIAMETER WITH A 1/4 INCH THICK EQUILATERAL TRIANGLE SYMBOL SUPERIMPOSED ON AND GEOMETRICALLY INSCRIBED WITHIN THE 12-INCH DIAMETER OF THE CIRCLE SYMBOL. THE TRIANGLE SYMBOL SHALL BE LOCATED 1/4 INCH MAXIMUM FROM THE EDGE OF THE CIRCLE SYMBOL WITH A VERTEX POINTING UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE COMBINED CIRCLE AND TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND
6. PROVIDE TACTILE SIGN STATING "EXIT" PER ICC A117.1 & CBC SECTION 1013.4

FINISH MATERIALS SCHEDULE - DOORS

ID	PRODUCT INFORMATION	APPEARANCE
DF-1	INTERIOR KNOCK-DOWN DOOR FRAMES TIMELY CLASSIC C-SERIES ALUMATONE CASING TA-28 SC 101 BLACK	
PTD-6	EXTERIOR H.M. DOORS SHERWIN WILLIAMS STOP - SW6869 FINISH: SEMI-GLOSS	
PTD-7	EXTERIOR/INTERIOR H.M. FRAMES SHERWIN WILLIAMS IRON ORE - SW7069 FINISH: SEMI-GLOSS	
PTD-8	INTERIOR H.M. DOORS SHERWIN WILLIAMS NUANCE - SW7049 SEMI-GLOSS SHEEN	
PTD-9	INTERIOR H.M. FRAMES SHERWIN WILLIAMS IRON ORE - SW7069 FINISH: SEMI-GLOSS	

DOOR & HARDWARE SCHEDULE

DOOR #	ROOM NAME	LOCATION	DOOR INFORMATION								CONSTRUCTION/FINISH				HARDWARE ACCESSORIES											LOCK SET	REMARKS
			SWING KEYSIDE	SIZE	TYPE	THROAT SIZE	FIRE RATING	GLASS TYPE	INSULATION U-FACTOR	PANEL THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	CLOSER	DOOR STOP	PANIC DEVICE	CARD READER	SEAL	DOOR SWEEP	KICK PLATE	FUNCTION TYPE	DRIP CAP	THRESHOLD	TRIM		
100A	HALLWAY	Exterior	RHR	3070	1B	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●			●	●	●	1	1, 6
100B	HALLWAY	Exterior	RHR	3070	1B	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●			●	●	●	1	1, 6
109A	APPARATUS ROOM	Exterior	LHR	3070	1A	8"			0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●	●		●	●	●	6	6
109B	APPARATUS ROOM	Exterior	RHR	3070	1B	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●	●		●	●	●	1	1
109D	APPARATUS ROOM	Exterior		120140	3	8"			0.31		BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.					●	●		ELECTRIC				7	
109E	APPARATUS ROOM	Exterior		120140	3	8"			0.31		BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.					●	●		ELECTRIC				7	
109F	APPARATUS ROOM	Exterior		120140	3	8"			0.31		BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.					●	●		ELECTRIC				7	
109G	APPARATUS ROOM	Exterior		120140	3	8"			0.31		BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.					●	●		ELECTRIC				7	
115A	COOLING CENTER	Exterior	LHR	3070	1B	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●	●	●	●	●		●	●	●	1	1, 6
115B	COOLING CENTER	Exterior	RHR/LHR	6070	1B-2	8"		1	0.37	1 3/4"	H.M.	PTD-6	H.M.	PTD-7	●		●		●	●	●		●	●	●	1	1
101	OFFICE	Interior	RH	3070	2B	4 7/8"		1		1 3/4"	S.C.	PL-1	STL.	DF-1		●										3	
102	CHIEF'S OFFICE	Interior	LH	3070	2B	7 7/8"	45 MIN	2		1 3/4"	S.C.	PL-1	STL.	DF-1	●	●										3	1
103	JANITOR	Interior	LH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1		●										6	
104A	CHIEF'S BED #3	Interior	RHR	3070	2C	4 7/8"		1		1 3/4"	S.C.	PL-1	STL.	DF-1	●	●										2	1
104B	CHIEF'S BED #3	Interior	RH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1		●								●		4	
106	LIVING AREA	Interior	RH	3070	2B	7 7/8"	45 MIN	2		1 3/4"	S.C.	PL-1	STL.	DF-1	●	●								●		3	1
107	BED #2	Interior	LH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1		●								●		4	
108	BED #1	Interior	RH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1		●								●		4	
109C	APPARATUS ROOM	Interior	LHR	3070	1B	7 1/4"			0.37	1 3/4"	H.M.	PTD-8	H.M.	PTD-9	●		●		●	●	●					2	1
110	WASH ROOM	Interior	RH	3070	2A	7 1/4"				1 3/4"	S.C.	PL-1	STL.	DF-1	●	●										5	5
111	SERVER	Interior	RH	3070	2A	7 1/4"				1 3/4"	S.C.	PL-1	STL.	DF-1		●		●								6	
112	LOCKERS	Interior	RH	3070	2A	4 7/8"				1 3/4"	S.C.	PL-1	STL.	DF-1	●	●										5	5
113	UNI-SEX R/R	Interior	LH	3070	3	7 1/4"				1 3/4"	H.M.	PTD-8	H.M.	PTD-9	●	●										4	5
114	UNI-SEX R/R	Interior	LH	3070	2A	7 1/4"				1 3/4"	S.C.	PL-1	STL.	DF-1	●											4	5



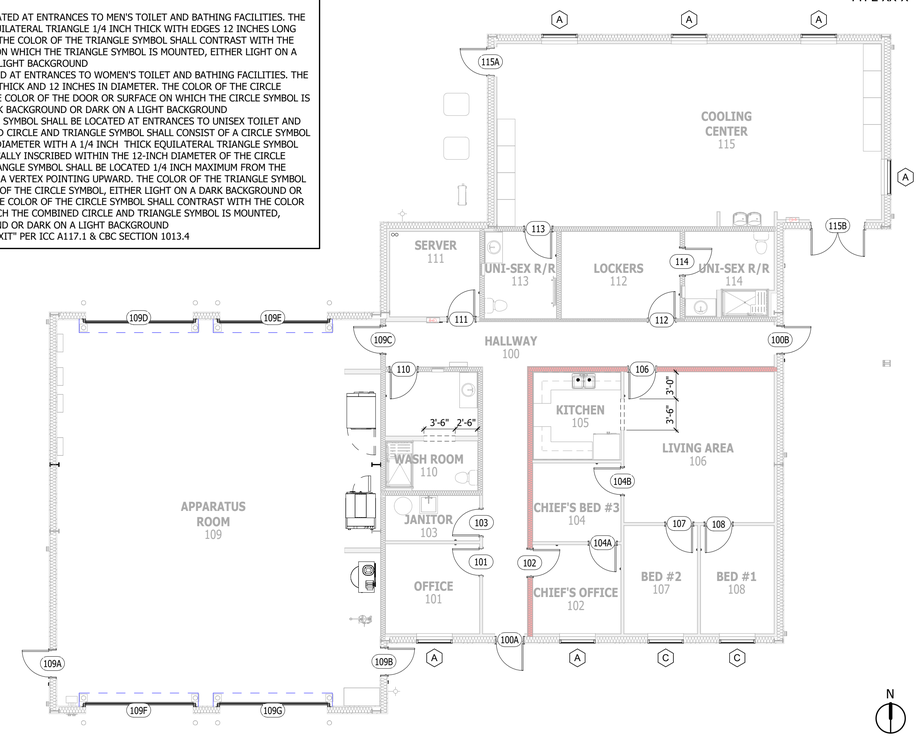
1 = HOLLOW METAL
2 = SOLID CORE

A = NO LITE
B = VISION LITE
C = FULL LITE

OPENING
WINDOW
CONSTRUCTION

TYPE XX-X

***RE: A3.10 FOR WALL ID TAGS**



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01 DOOR/WINDOW LOCATION PLAN

1/8" = 1'-0"

DOOR TYPES

N.T.S.

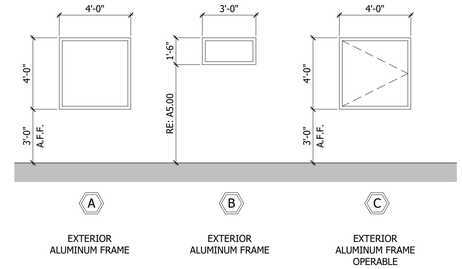
EXTERIOR GLAZING SCHEDULE AND NOTES		
TAG	SIZE	REMARKS
A	4'-0" x 4'-0"	PROVIDE WINDOW BLINDS
B	3'-0" x 1'-6"	
C	4'-0" x 4'-0"	PROVIDE WINDOW BLINDS OPERABLE FROM INSIDE

GLAZING SUBJECT TO HUMAN IMPACT LOADS AND IN ALL HAZARDOUS LOCATIONS SHALL COMPLY WITH CBC SECTION 2406 (INCLUDING 2406.1, 2406.2, 2406.3, & 2406.4.1 through 2604.4.7). STOREFRONT GLASS DOORS AND ADJACENT GLASS PANELS SHALL BE SAFETY/IMPACT RESISTANT GLASS

STOREFRONT GLASS DOORS AND ADJACENT GLASS PANELS SHALL BE SAFETY/IMPACT RESISTANT GLASS

ALL EXTERIOR GLAZING TO BE 1" INSULATED TEMPERED TINTED, LOW-E - GLASS COLOR TO BE PPG OPTIGRAY 23 OR APPROVED EQUAL - SYSTEM TO BE DESIGNED FOR LATEST ADOPTED EDITION OF APPLICABLE BUILDING CODES

GLAZING VENDOR TO FIELD VERIFY ALL MEASUREMENTS AND PROVIDE SHOP DRAWINGS FOR ARCHITECT REVIEW PRIOR TO FABRICATION



WINDOW TYPES

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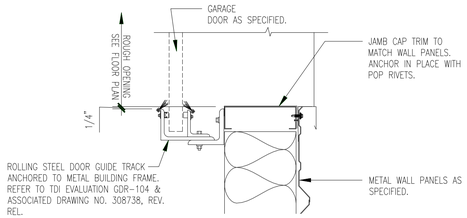
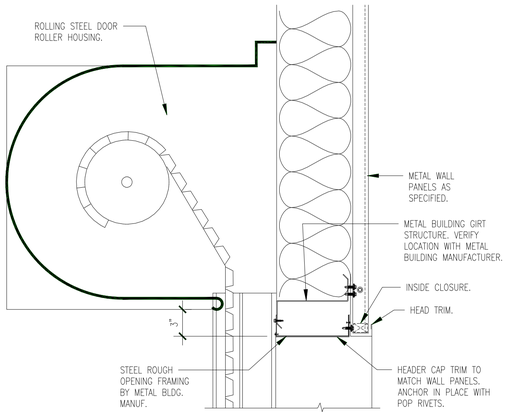
DOOR, WINDOW, & HARDWARE SCHEDULES

SHEET
A9.20
OF ___ SHEETS

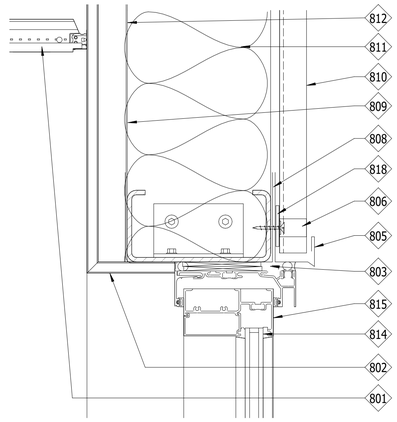
JOB NO.
1509-00



16 OH DOOR JAMB
1 1/2" = 1'-0"

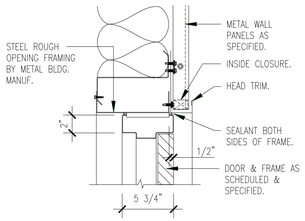


12 OH DOOR HEAD
1 1/2" = 1'-0"

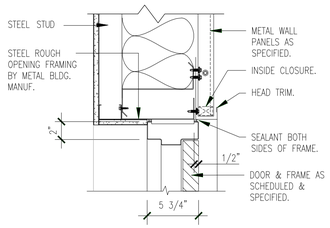


07 EXTERIOR WINDOW HEAD
3" = 1'-0"

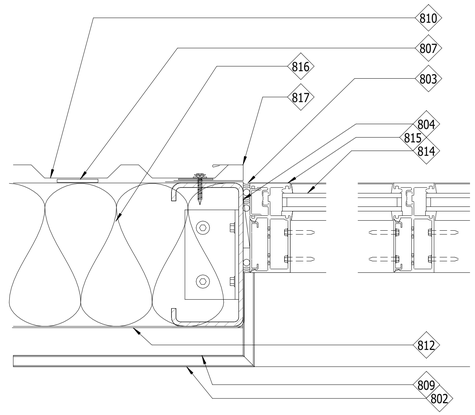
KEYNOTES ◇XXX	
801	SCHED. CEILING
802	GYPSUM BOARD
803	BACKER ROD & SEALANT
804	HEAD/JAMB COVER
805	HEAD TRIM
806	INSIDE CLOSURE
807	THERMAL BREAK TAPE
808	CHANNEL CLOSURE FLASH
809	METAL STUDS
810	MTL WALL PANEL
811	SPEC. WALL INSULATTION
812	SKYLINER SYSTEM W/BANDING
814	SCHED. GLAZING
815	STOREFRONT SYSTEM
816	BATT INSULATION
817	JAMB TRIM
818	THERMAL BREAK TAPE
830	SCHEDULED WINDOW
832	SILL TRIM
833	INSIDE CLOSURE



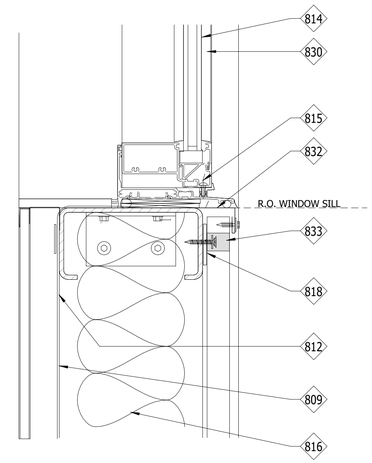
02 HM DOOR HEAD UNFINISHED
1 1/2" = 1'-0"



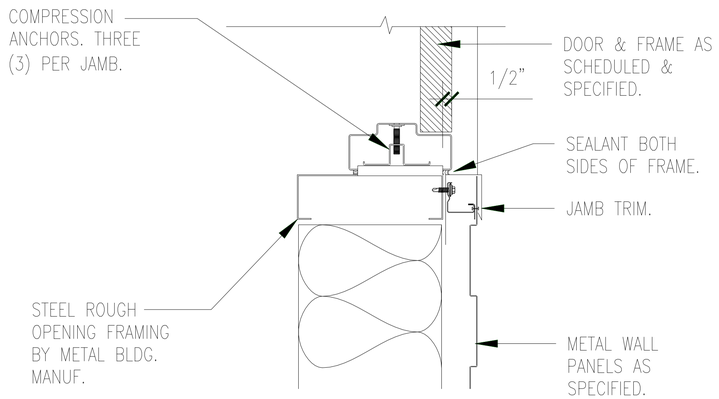
03 HM DOOR HEAD FINISHED
1 1/2" = 1'-0"



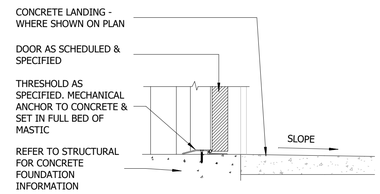
06 EXTERIOR WINDOW JAMB
3" = 1'-0"



05 EXTERIOR WINDOW SILL
3" = 1'-0"



14 EXT. HM DOOR JAMB
3" = 1'-0"



01 HM DOOR THRESHOLD
1 1/2" = 1'-0"

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY: ____
DRAWN BY: LMH
CHECKED BY: NEB

ADVANCED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
DOOR & WINDOW DETAILS

SHEET
A9.30
OF ___ SHEETS
JOB NO.
1509-00

WALL FINISH LEVEL INFORMATION

LEVEL 0
GYP. BD. SCREWED TO STUDS - NO TAPING, FINISHING, OR ACCESSORIES REQUIRED

LEVEL 1
ALL JOINTS AND INTERIOR ANGLES HAVE TAPE EMBEDDED IN COMPOUND

LEVEL 2
THIN COATING OF COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. ALL CORNER BOARDS AND FASTENERS COVERED IN ONE COAT OF COMPOUND.

LEVEL 3
ADDITIONAL COATING OF COMPOUND OVER JOINTS AND INTERIOR ANGLES. SMOOTH AND FREE OF TOOL MARKS AND RIDGES. ALL CORNER BOARDS AND FASTENERS COVERED IN TWO COATS OF COMPOUND.

LEVEL 4
ANOTHER COATING OF COMPOUND OVER FLAT JOINTS, SMOOTH AND FREE OF TOOL MARKS OR RIDGES. ALL CORNER BOARDS AND FASTENERS COVERED IN THREE COATS OF COMPOUND.

LEVEL 5
SKIM COAT APPLIED OVER A SANDED LEVEL 4 FINISH ON ENTIRE SURFACE. SURFACE SMOOTH AND FREE OF TOOL MARKS OR RIDGES

5. FIRE RATED PARTITIONS

A. ALL COMPONENTS OF FIRE RATED PARTITION TYPES/ASSEMBLIES SHALL BE INSTALLED PER THE REFERENCED ASSEMBLY, INCLUDING PACKING MATERIALS, WALLBOARD BATTENS, AND FILL MATERIALS WHERE THE PARTITION TERMINATES AT THE UNDERSIDE OF A METAL DECK.

B. SUFFIXES "-1, -2, -3" ETC. FOLLOWING THE BASIC PARTITION TYPE REFER TO THE FIRE RESISTIVE RATING OF THE PARTITION TYPE. FOR EXAMPLE, "C1-1" WOULD REFER TO PARTITION TYPE C1, BUT CONSTRUCTED TO MEET 1 HOUR RESISTIVE ASSEMBLY AS INDICATED.

C. 5/8" GYPSUM BOARD TYPICAL; TYPE "X" FIRE-RESISTIVE GYP. BD. AT ALL RATED ASSEMBLIES.

PARTITION LIMITING HEIGHTS

FRAMING MEMBER		COMPOSITE		NON-COMPOSITE BRACED @ 48"		NON-COMPOSITE FULLY BRACED		
SECTION	SPACING	L/240	L/360	L/240	L/360	L/240	L/360	Lu (in)
162S125-18 (1 5/8")	12	11'-1"	9'-10"	7'-10"	6'-11"	7'-8"	6'-8"	29.0
	16	10'-1"	8'-11"	7'-1"	6'-3"	6'-11"	6'-1"	
	24	8'-9"	7'-9"	5'-11"	5'-5"	6'-1"	5'-4"	
162S125-27	12	11'-8"	10'-2"	9'-0"	7'-10"	8'-11"	7'-10"	29.1
	16	10'-7"	9'-1"	8'-2"	7'-2"	8'-2"	7'-1"	
	24	9'-1"	--	7'-1"	6'-3"	7'-1"	6'-3"	
162S125-30	12	11'-10"	10'-4"	9'-3"	8'-1"	9'-3"	8'-1"	29.2
	16	10'-9"	9'-4"	8'-5"	7'-4"	8'-5"	7'-4"	
	24	9'-4"	7'-11"	7'-4"	6'-5"	7'-4"	6'-5"	
250S125-18 (2 1/2")	12	14'-2"	12'-9"	10'-9"	9'-6"	10'-6"	9'-2"	**29.0**
	16	**12'-10"**	**11'-7"**	**9'-8"**	**8'-7"**	**9'-7"**	**8'-4"**	
	24	11'-3"	10'-2"	8'-2"	7'-6"	8'-3"	7'-4"	
250S125-27	12	15'-4"	13'-9"	12'-5"	10'-10"	12'-4"	10'-10"	28.9
	16	13'-11"	12'-5"	11'-3"	9'-11"	11'-3"	9'-10"	
	24	12'-2"	10'-11"	9'-10"	8'-7"	9'-10"	8'-7"	
250S125-30	12	15'-10"	14'-1"	12'-10"	11'-3"	12'-9"	11'-2"	28.9
	16	14'-5"	12'-10"	11'-8"	10'-2"	11'-7"	10'-2"	
	24	12'-7"	11'-2"	10'-2"	8'-11"	10'-2"	8'-10"	
362S125-18 (3 5/8")	12	16'-8"	14'-7"	13'-1"	12'-7"	14'-0"	12'-6"	**29.0**
	16	**15'-2"**	**13'-3"**	**11'-4"**	**11'-4"**	**12'-2"**	**11'-4"**	
	24	13'-2"	11'-6"	9'-3"	9'-3"	9'-11"	9'-11"	
362S125-27	12	18'-2"	15'-10"	16'-6"	14'-6"	16'-6"	14'-5"	28.9
	16	16'-6"	14'-5"	15'-0"	13'-2"	15'-0"	13'-1"	
	24	14'-5"	12'-6"	12'-5"	11'-5"	13'-1"	11'-5"	
362S125-30	12	18'-3"	16'-4"	17'-1"	14'-11"	17'-0"	14'-10"	28.9
	16	16'-7"	14'-10"	15'-6"	13'-7"	15'-6"	13'-6"	
	24	14'-6"	12'-11"	13'-4"	11'-10"	13'-6"	11'-10"	
600S125-18 (6")	12	22'-9"	19'-11"					
	16	**20'-1"**	**18'-1"**					
	24	16'-4"	15'-10"					
600S125-27	12	26'-9"	23'-5"	24'-5"	21'-6"	24'-4"	21'-3"	**27.7**
	16	24'-4"	21'-3"	**21'-5"**	**19'-6"**	**21'-6"**	**19'-4"**	
	24	21'-3"	18'-7"	17'-6"	17'-0"	17'-7"	16'-10"	
600S125-30	12	27'-1"	23'-8"	25'-4"	22'-4"	25'-2"	22'-0"	27.6
	16	24'-7"	21'-6"	23'-0"	20'-3"	22'-11"	20'-0"	
	24	21'-6"	18'-9"	18'-10"	17'-7"	18'-11"	17'-6"	
800S125-43 (8")	12			36'-6"	31'-11"	36'-1"	36'-1"	**26.3**
	16			**33'-1"**	**29'-0"**	**32'-9"**	**28'-8"**	
	24			28'-4"	25'-4"	28'-8"	25'-0"	
800S125-54	12			39'-2"	34'-3"	38'-9"	33'-10"	21.1
	16			35'-7"	31'-1"	35'-2"	30'-9"	
	24			31'-1"	27'-2"	30'-9"	26'-10"	
800S125-68	12			42'-0"	36'-8"	41'-11"	36'-8"	20.8
	16			38'-2"	33'-4"	38'-1"	33'-4"	
	24			33'-4"	29'-1"	33'-4"	29'-1"	
SHAFT WALL - 1 HR								
212CH25-18	24	10'-7"	9'-4"					
400CH25-18	24	14'-5"	12'-9"					
600CH20-34	24	15'-2"	14'-8"					
SHAFT WALL - 2 HR								
212CH25-18	24	11'-2"	9'-10"					
400CH25-18	24	15'-7"	13'-11"					
600CH20-34	24	21'-9"	20'-0"					

LIMITING HEIGHTS

1. AT CONDITIONS WHERE A PARTITION EXCEEDS THE LIMITING HEIGHT LISTED FOR THAT TYPE, REDUCE STUD SPACING OR PROVIDE HEAVIER GAUGE FRAMING MEMBERS PER TABLE BELOW, OR APPLICABLE LOCAL CODES, WHICHEVER IS MORE STRINGENT. ALTERNATELY, PROVIDE DIAGONAL BRACING TO STRUCTURE AT OR BELOW THE LIMITING HEIGHT, PER PARTITION ATTACHMENT DETAILS.
2. L/240 AND L/360 VALUES ARE FOR 5 PSF LATERAL LOAD. VERIFY AND COMPLY WITH LOCAL CODE REQUIREMENTS.
3. TYPICAL ALLOWABLE DEFLECTION DESIGN CRITERIA RATIO IS L/240. USE L/360 WHERE BRITTLE FINISHES WILL BE APPLIED SUCH AS PLASTER OR TILE.
4. TABLE VALUES ARE FROM SSMA (STEEL STUD MANUFACTURERS ASSOCIATION) TECHNICAL GUIDE (EFFECTIVE 9/5/2014) COMPLYING WITH 2015, 2012, 2009, & 2006 IBC, AND ARE PROVIDED FOR REFERENCE ONLY. VERIFY AND COMPLY WITH LOCAL CODE REQUIREMENTS.

1. SOUND RATED PARTITIONS

A. SOUND RATED PARTITIONS AND PARTITIONS WITH THERMAL INSULATION ARE GRAPHICALLY INDICATED IN FLOOR PLAN. REFER TO FLOOR PLANS FOR LOCATIONS.

B. STC RATINGS FOR PARTITIONS ARE BASED ON LABORATORY-TESTED ASSEMBLIES, AND DO NOT NECESSARILY INDICATE THE ACTUAL STC RATING OF THE COMPLETED ASSEMBLY.

C. PROVIDE THE FOLLOWING ACOUST. INSULATION THICKNESSES (U.N.O):
2 1/2" THICK SOUND ATTENUATION BLANKETS AT 2 1/2" STUD PARTITIONS;
3" THICK SOUND ATTENUATION BLANKETS AT 3 5/8" STUD PARTITIONS;
4" SOUND ATTENUATION BLANKETS AT > 3 5/8" STUD PARTITIONS;
3" SOUND ATTENUTATION BLANKETS EXTENDING MIN. 24" BOTH SIDES OF PARTITION, AT ABOVE CLG. LOCATIONS U.N.O.

D. FILL ALL DECK VOIDS ABOVE PARTITIONS WITH SOUND ATTENUATION AND APPROPRIATE SEALANT. SEAL TOPS OF FIRE RATED PARTITIONS TO MATCH FIRE RATING OF THE WALL ASSEMBLY.

E. SEAL PARTITION PERIMETER AND ALL PENETRATIONS WITH ACOUSTICAL SEALANT.

F. PROVIDE "ACOUSTIC PUTTY PADS" BEHIND ALL SWITCH, RECEPTACLE OR MISC. WALL MOUNTED JUNCTION OR BACK BOXES, TYPICAL.

2. DAMP LOCATIONS

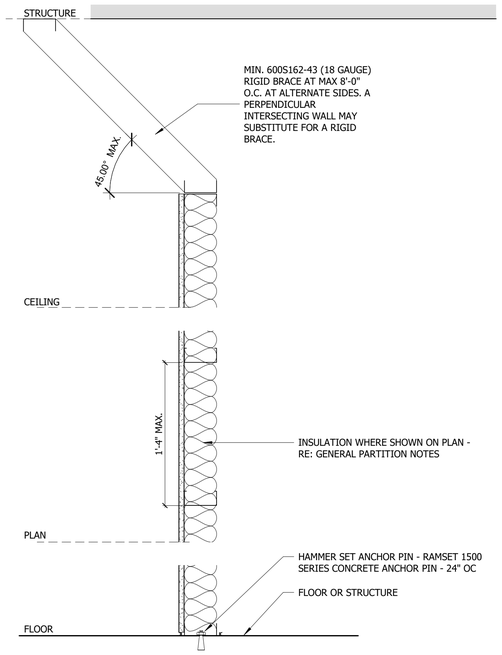
A. PROVIDE MOISTURE-RESISTANT GYPSUM BOARD AT PARTITIONS RECEIVING TILE AND/OR PLASTIC-FACED WALL PANELS. REFER TO ROOM FINISH SCHEDULE FOR LOCATIONS.

3. BRACING

A. RIGIDLY BRACE AT DOOR JAMBS.

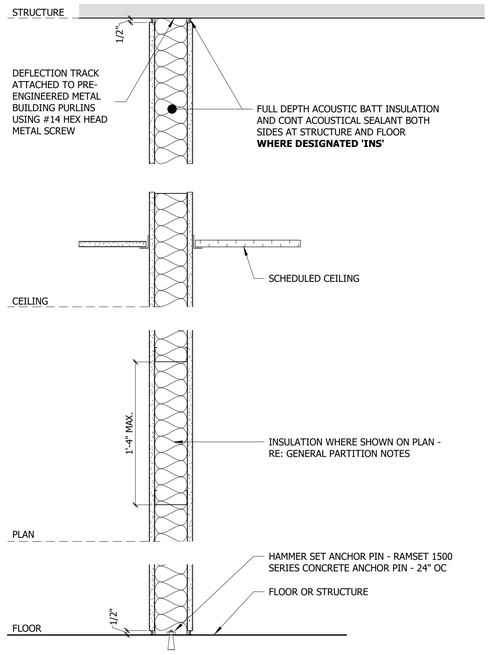
4. BLOCKING

A. PROVIDE METAL STUD OR STEEL BLOCKING (AND/OR FIRE-RETARDANT 2X WOOD BLOCKING WHERE PERMITTED BY CODE) ADEQUATE TO SUPPORT GRAB BARS, HANDRAILS, TRIM, MOULDINGS, WALL MOUNTED EQUIPMENT AND FIXTURES AS SCHEDULED OR NOTED ELSEWHERE. ALL BLOCKING MUST PROVIDE ADEQUATE STRUCTURAL SUPPORT TO MEET ALL APPLICABLE CODES RELATED TO SUCH ITEMS.



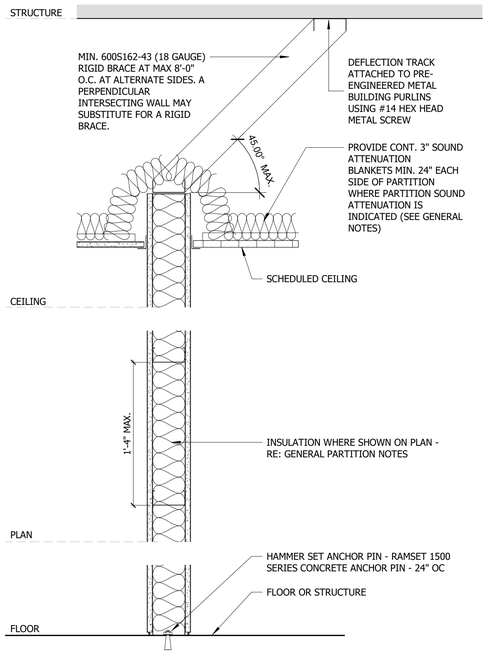
MIN. 25 GAUGE METAL STUDS AT 16" O.C. W/ 1 LAYER 5/8" GYP BOARD EACH SIDE				
TYPE MARK	FRAMING MEMBERS		PARTITION WIDTH	STC
	PRODUCT #	METAL STUD SIZE		MIN/INSULATED
E1	250S125-8	2 1/2"	3 1/8"	N/A
E2	362S125-18	3 5/8"	4 1/4"	N/A
E3	400S125-18	4"	4 5/8"	N/A
E4	600S125-27	6"	6 5/8"	N/A

13 PARTITION TYPE "E"
1 1/2" = 1'-0"



MIN. 25 GAUGE METAL STUDS AT 16" O.C. W/ 1 LAYER 5/8" GYP BOARD EACH SIDE					
TYPE MARK	FRAMING MEMBERS		PARTITION WIDTH	UL #	STC
	PRODUCT #	METAL STUD SIZE			MIN/INSULATED
C1	250S125-18	2 1/2"	3 3/4"		38/45
C2	362S125-18	3 5/8"	4 7/8"		43/48
C3	600S125-18	6"	7 1/4"		43/48
C3-1	600S125-18	6"	7 7/8"	UL419	50
C4	800S125-43 18 GA	8"	9 1/4"		

09 PARTITION TYPE "C"
1 1/2" = 1'-0"



MIN. 25 GAUGE METAL STUDS AT 16" O.C. W/ 1 LAYER 5/8" GYP BOARD EACH SIDE				
TYPE MARK	FRAMING MEMBERS		PARTITION WIDTH	STC
	PRODUCT #	METAL STUD SIZE		MIN/INSULATED
B1	250S125-18	2 1/2"	3 3/4"	38/45
B2	362S125-18	3 5/8"	4 7/8"	43/48
B3	600S125-18	6"	7 1/4"	43/48

02 PARTITION TYPE "B"
1 1/2" = 1'-0"

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4	IFP SET		2022/03/29
5	PERMIT REV 1		2022/07/08

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENSED ARCHITECT TIMOTHY M. HOLT C-12576 MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

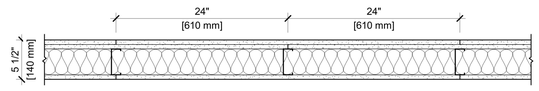
PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

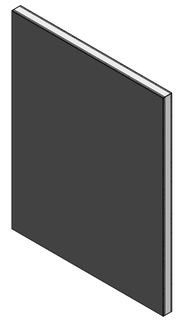
SHEET CONTENT:
PARTITION TYPES

SHEET
A9.50
OF ___ SHEETS
JOB NO.
1509-00

DESIGN NO. **UL U419**

FIRE RATING:	1 HOUR
STC RATING:	50
SOUND TEST:	USG-160727
SYSTEM THICKNESS:	5-1/2" [140 MM]
LOCATION:	INTERIOR
FRAMING TYPE:	STEEL STUD (NONLOAD-BEARING)





ASSEMBLY REQUIREMENTS:

GYPSUM PANELS:	TWO LAYERS 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)
STEEL STUDS:	3-5/8" [92 MM] STEEL STUDS, EQ20 (0.018"), 24" [610 MM] O.C.
INSULATION:	3-1/2" [89 MM] FIBERGLASS INSULATION
GYPSUM PANELS:	ONE LAYER 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)

GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDICATES "PER", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

USG CGC

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T. 800-USG4YOU

UL U419

ISSUE RECORD:
Revision Date
10/05/2021 11:49:46 PM

SHEET INFORMATION:
SN-P-1-11

01 UL 419 - FIRE RESISTANCE RATED INT. WALL - 1-HR 50 STC
12" = 1'-0"

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SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
UL ASSEMBLIES

SHEET
A9.60
OF ___ SHEETS
JOB NO.
1509-00

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	3
25-50	6
51-75	9
76-100	12
101-150	18
151-200	21
201 AND OVER	AT LEAST 12% OF TOTAL[1]

1.Calculation for spaces shall be rounded up to the nearest whole number.

Note: Designated parking for clean air vehicles shall count towards the total parking spaces required by the local enforcing agencies.

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	2
26-50	4
51-75	7
76-100	9
101-150	13
151-200	18
201 AND OVER	10% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

Note: Future electric vehicle charging spaces shall count towards the total parking spaces required by the local enforcing agencies.

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING - (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade trees plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG] *California Energy Code [DSA-SS].* For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

01 2019 CALGREEN NONRESIDENTIAL MANDATORY MEASURES NOTES
1 1/2" = 1'-0"

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES

SHEET A9.80
OF ___ SHEETS
JOB NO. 1509-00

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) *of California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certification or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

01 2019 CALGREEN NONRESIDENTIAL MANDATORY MEASURES NOTES
1 1/2" = 1'-0"

The Holt Group, Inc.
ENGINEERING · PLANNING · SURVEYING

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENSED ARCHITECT TIMOTHY M. HOLT MAY 2023 RENEWAL DATE STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE

12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES

SHEET A9.81
OF ___ SHEETS
JOB NO. 1509-00

AIA California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y | N/A | RESPON. PARTY

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^0 Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (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, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

01 2019 CALGREEN NONRESIDENTIAL MANDATORY MEASURES NOTES
1 1/2" = 1'-0"

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NO.	REVISIONS:	APPROVED	DATE
3	100% REVIEW SET		2022/03/14
4	IFP SET		2022/03/29

DESIGN BY:
DRAWN BY: LMH
CHECKED BY: NEB

LICENCED ARCHITECT · TIMOTHY M. HOLT · C-12576 · MAY 2023 RENEWAL DATE · STATE OF CALIFORNIA

PREPARED UNDER THE DIRECT SUPERVISION OF:
TIMOTHY M. HOLT, A.I.A.
07/08/2022
DATE
12576
REGISTRATION NUMBER
05 - 31 - 2023
EXPIRATION

PROJECT TITLE:
SEELEY FIRE STATION & COOLING CENTER

SHEET CONTENT:
CALGREEN NON RESIDENTIAL MANDATORY MEASURES NOTES

SHEET
A9.82
OF ___ SHEETS
JOB NO.
1509-00