CITY OF ALAMEDA
ALAMEDA FIRE STATION 3

1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501
PW. NO. 12-14-18

BRW PROJECT NO. 214073.00
FEBRUARY 9, 2015

OWNER

CITY OF ALAMEDA
PUBLIC WORKS, 950 WEST MALL SQUARE #110
ALAMEDA, CA 94501

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GEOTECHNICAL ENGINEER

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1956 WEBSTER STREET, SUITE 400
OAKLAND, CALIFORNIA 94612

PETER C. CONNOLLY, PRINCIPAL ENGINEER
(510) 343-3000

SYMBOL LEGEND

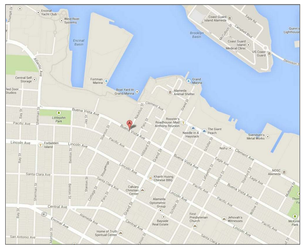
NORTH ARROWS (PLAN / TRUE)
ARTIFICIAL PROPERTY LINE / LIMITS OF CONSTRUCTION
BUILDING SETBACK LINE/EASEMENT
EXISTING CONTOURS (100)
REVISED CONTOURS (100)
EXISTING SPOT GRADE (100)
REVISED SPOT GRADE (100)
WORKING POINT, CONTROL OR DATUM POINT
COLUMN DESIGNATION (0)
DETAIL BUBBLE (1 / A463)
BUILDING SECTION (1 / A301)
WALL SECTION (1 / A314)
FACE OF FINISH DIMENSIONING (1")
MATCH LINE
VIEW TITLE (1 TITLE, SCALE)

EXTERIOR ELEVATION (A101 / 1)
INTERIOR ELEVATION (3 / A411 / 1)
KEYNOTE (3111.10)
WALL TYPE (A1)
DOOR NUMBER (101)
WINDOW TYPE (A)
REVISIONS (1)
ROOM NAME DESIGNATION & NUMBER (ROOM NAME / C101B)
CEILING FINISH
WALL FINISH
BASE FINISH
FLOOR FINISH
NEW CONSTRUCTION
NEW FIRE RATED CONSTRUCTION (2)
EXISTING WALL TO REMAIN
ALIGN
TEMPERED GLASS
REFERENCES: (3/A463)
SHEET NUMBER
DETAIL NUMBER
SHEET NUMBERING: (A463)
SHEET NUMBER
SHEET TYPE DESIGNATOR
DISCIPLINE DESIGNATOR

ARCHITECTURAL ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	MNTD.	MOUNTED
B.O.	BOTTOM OF	NOM.	NOMINAL
C.J.	CONTROL JOINT	N.I.C.	NOT IN CONTRACT
CLR	CLEAR	O.C.(E.W.)	ON CENTER (EACH WAY)
DIA.	DIAMETER	O.H.	OPPOSITE HAND
DN	DOWN	RE:	REFERENCE
D.S.	DOWNSPOUT	REQ./REQD	REQUIRED
E.J.	EXPANSION JOINT	R.O.	ROUGH OPENING
EQ.	EQUAL	R.W.L.	RAIN WATER LEADER
F.F.	FINISH FLOOR	SIM.	SIMILAR
F.V.	FIELD VERIFY	T.O.	TOP OF
GA.	GAUGE	TYP.	TYPICAL
M.O.	MASONRY OPENING	W/	WITH
MAX.	MAXIMUM	W.B.	WIND BRACE
MIN.	MINIMUM	W.P	WORKING POINT

VICINITY MAP



CITY CONTACT INFORMATION

ELECTRICAL:
ALAMEDA MUNICIPAL POWER
FRED BRANAMAN
(510) 715-7280

FIBER OPTIC SERVICE:
ALAMEDA MUNICIPAL POWER
LUIS ESCALANTE
(510) 814-5631

CITY PLANNING CONTACT:
ANDREW THOMAS
(510) 747-6881

DEFERRED SUBMITTALS

FIRE SPRINKLER SYSTEM

ROOF VENT REQUIREMENTS

MAIN ROOF = 3,408 SF / 300 = 11.36 SF (5.68 SF @ ROOF; 5.68 SF @ SOFFIT)

APP. BAY ROOF = 1,777 SF / 300 = 5.92 SF (2.96 SF @ ROOF; 2.96 SF @ SOFFIT)

LOBBY / EXERCISE ROOF = 669 SF / 300 = 2.23 SF (1.12 SF @ ROOF; 1.12 SF @ SOFFIT)

DAY ROOM ROOF = 457 SF / 150 = 1.52 SF (0.76 SF @ ROOF; 0.76 SF @ SOFFIT)

ACTUAL ROOF VENT PROVIDED

MAIN ROOF = 10.2 SF @ SOFFIT; 4.2 @ ROOF

APP. BAY ROOF = 5.7 SF @ SOFFIT; 3.72 @ ROOF

LOBBY / EXERCISE ROOF = 2.1 SF @ SOFFIT; 1.8 @ ROOF

DAY ROOM ROOF = 1.6 SF @ SOFFIT; 0.9 @ ROOF

EXTERIOR ENCLOSURE T24 REQUIREMENTS

EXTERIOR WINDOWS: U-VALUE OF 0.27, SHGC OF 0.39, UT OF 0.7 ASSEMBLY

METAL FRAMED WALLS: R-9.5

CMU WALLS ASSEMBLY: R-4.2

PITCHED ROOF ASSEMBLY: R-28

FLAT ROOF ASSEMBLY: R-32.3

COOL ROOF: CRRC-1 CERTIFIED W/ AGED SOLAR REFLECTANCE OF 0.7 & THERMAL EMISSIVITY OF 0.9

PROJECT INFORMATION

AS PART OF THE CITY OF ALAMEDA DISTRICT 3 PUBLIC SAFETY MASTER PLAN, FIRE STATION 3 WILL BE A NEW TWO-STORY FACILITY CONTAINING FIREFIGHTER OPERATIONS, LIVING QUARTERS, AND A CONFERENCE ROOM WITH A PUBLIC RESTROOM. THE FACILITY WILL INITIALLY HOUSE ONE ENGINE COMPANY AN AMBULANCE, WITH SPACE FOR RESERVE APPARATUS. SERVICE APRONS WILL BE AVAILABLE ON BOTH SIDES OF THE APPARATUS BAYS TO FACILITATE SERVICING, CLEANING AND FUELING.

THE DESIGN TEAM IS COORDINATING WITH ALAMEDA MUNICIPAL POWER (AMP) TO STUDY THE FEASIBILITY OF A ROOF-MOUNTED SOLAR INSTALLATION.

CODE INFORMATION

BUILDING:	2013 CALIFORNIA BUILDING CODE
MECHANICAL:	2013 CALIFORNIA MECHANICAL CODE
PLUMBING:	2013 CALIFORNIA PLUMBING CODE
ELECTRICAL:	2013 CALIFORNIA ELECTRIC CODE
GREEN BUILDING:	2013 GREEN BUILDING CODE
FIRE:	2013 CALIFORNIA FIRE CODE
SCOPE OF WORK:	NEW BUILDING, PARKING, AND LANDSCAPING
NUMBER OF FLOORS:	2
CONSTRUCTION TYPE:	TYPE V-B
OCCUPANCY CLASSIFICATION:	B
SPRINKLERED:	YES; NFPA 13
FLOOR AREA:	LOWER: 6,884 SF
	UPPER: 2,064 SF
	TOTAL: 8,948 SF
GROSS AREA (INCLUDING OVERHANG):	11,838 SF
BUILDING HEIGHT:	MAX. HT. AT HIGH RIDGE 29'-5"

SITE AREA CALCULATION

BUILDING FOOTPRINT E.O.C. :	1,995 SF
BUILDING FOOTPRINT STATION 3 :	7,306 SF
HARDSCAPE:	12,080 SF
LANDSCAPE - BIO R. & PLANTERS:	710 SF
LANDSCAPE:	3,670 SF

ZONING

C-M. COMMERCIAL-MANUFACTURING DISTRICT

ADJACENT ZONES/USE

NORTH:	R-4-PD
SOUTH:	R-3
EAST:	R-3, M-1
WEST:	R-4-PD

LAND USE

EXISTING:	VACANT
NEW:	FIRE STATION

LOT AREA

APN # 72-323-12

PHASE 1 (EOC):	12,655 SF
PHASE 2 (STATION 3):	12,430 SF
TOTAL AREA:	25,085 SF (0.58 AC)
TOTAL PERIMETER:	792 LF

SETBACKS AND LIMITS

	REQUIRED	PROPOSED
FRONT 1: (BUENA VISTA)	NO SETBACK	5'-0"
FRONT 2: (HIBBARD)	NO SETBACK	8'-0"
REAR:	12'-0"	12'-0"
SIDES:	5'-0"	5'-0"
FLOOR TO SITE AREA RATIO:	NO RESTRICTION	29%
HEIGHT LIMIT:	100'-0"	29'-5"

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. THE PLANS CONTAINED HEREIN REPRESENT THE SCOPE OF WORK TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL WORK SHOWN ON THESE DOCUMENTS AND ALL WORK THAT CAN BE REASONABLY INFERRED TO BE INCLUDED. ARCHITECT SHALL BE THE SOLE INTERPRETER OF THE INTENT OF THE PLANS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
3. IN ALL CASES, CARE SHALL BE TAKEN TO CREATE AS LITTLE NUISANCE AS POSSIBLE. CORRIDORS SHALL BE KEPT FREE OF HAZARDOUS EXTENSION CORDS, EQUIPMENT, TRASH AND OTHER SITUATIONS THAT COULD RESULT INJURY TO VISITORS OR EMPLOYEES OF THE CONTRACTOR.
4. PRIOR TO SUBMITTING A PROPOSAL, THE CONTRACTOR SHALL CHECK ON THE AVAILABILITY OF ALL MATERIALS SPECIFIED, AND QUALIFY IN WRITING AT THE TIME OF PROPOSAL IF ANY MATERIALS SHOULD REQUIRE A LONG LEAD TIME OR ARE NOT AVAILABLE WITHIN A REASONABLE TIME FRAME.
5. UPON SELECTION OF THE CONTRACTOR, HE SHALL SUBMIT A SCHEDULE OF WORK LISTING THE AREAS TO RECEIVE NEW WORK, THE STARTING DATES OF EACH PHASE OF WORK IN EACH AREA, THE LENGTH OF TIME TO COMPLETION, WORK TO BE PERFORMED AFTER HOURS, AND A SCHEDULE OF VALUES FOR EACH PHASE OF THE WORK.
6. CONTRACTOR SHALL INCLUDE ALL HAULING OF DEMOLISHED MATERIALS OR TRASH GENERATED BY THIS PROJECT. TRASH SHALL BE REMOVED DAILY FROM THE AREAS BEING IMPROVED AND SHALL NOT BE ALLOWED TO ACCUMULATE.
7. UPON COMPLETION OF WORK, CONTRACTOR SHALL THOROUGHLY CLEAN ALL AREAS WHERE WORK OCCURRED, AS WELL AS ANY "PATHS" THAT MAY HAVE BEEN ESTABLISHED DURING CONSTRUCTION. AREAS DESIGNATED FOR STORAGE OF THE CONTRACTORS EQUIPMENT AND MATERIALS SHALL ALSO BE LEFT CLEAN AND FREE OF DEBRIS OR EXCESS MATERIALS.
8. CONTRACTOR SHALL THOROUGHLY PROTECT ALL EXISTING SURFACES DURING DEMOLITION AND CONSTRUCTION. ANY MATERIAL OR SURFACE THAT IS DAMAGED SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE.
9. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY OF HIS WORK. CONFIRMING QUANTITIES, FOR SELECTING FABRICATION AND CONSTRUCTION PROCESSES, FOR TECHNIQUES OF ASSEMBLY, FOR PERFORMING HIS WORK IN A SAFE MANNER AND FOR ADHERING TO ALL APPLICABLE CODES.

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NOT FOR CONSTRUCTION

LICENSED ARCHITECT — F. CHRISTOPHER FORD — No. C-17751 — STATE OF CALIFORNIA

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DATE: FEBRUARY 9, 2015
DRAWN BY: Author
CHECKED BY: Checker
BRW PROJECT NUMBER: 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
P.W NO. 12.14.18

1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date
1	Revision 1	Date 1

T1.1

TITLE SHEET AND DRAWING INDEX

MASTER KEYNOTE LIST

0320.01	DOWEL INTO CONCRETE SLAB
0320.02	STEEL REINFORCING (RE: STRUCTURAL)
0320.04	DOWEL SUPPORT
0330.01	CONCRETE (RE: STRUCTURAL)
0330.02	CONCRETE SLAB (RE: STRUCTURAL)
0330.07	CONCRETE FOOTING (RE: STRUCTURAL)
0330.24	CAST-IN-PLACE CONCRETE RETAINING WALL
0330.26	LT. WT. CONCRETE OVER MTL. DECK (RE: STRUCTURAL)
0340.07	PRECAST CONC. CAP - THINSET O/ CONCRETE WALL
0360.03	FILL WITH GROUT
0420.10	4" CONCRETE MASONRY UNITS
0420.14	8" CONCRETE MASONRY UNITS
0420.18	12" CONCRETE MASONRY UNITS
0420.23	CONCRETE MASONRY BOND BEAM
0470.01	CAST STONE
0470.05	CAST STONE SILL WITH DRIP
0510.01	STEEL STRUCTURE (RE: STRUCTURAL)
0510.04	STEEL ANGLE (RE: STRUCTURAL)
0510.06	STEEL LINTEL / PLATE (RE: STRUCTURAL)
0520.01	STEEL JOIST (RE: STRUCTURAL)
0530.02	2" METAL DECK (RE: STRUCTURAL)
0530.04	3" METAL ROOF DECK (RE: STRUCTURAL)
0540.01	COLD-FORMED METAL FRAMING
0540.02	6" METAL STUDS AT 16" O.C.
0540.03	8" METAL STUDS AT 16" O.C.
0550.15	C6 X 8.4 STEEL CHANNEL
0550.20	1/2" STEEL PLATE WITH 3/4" DIAMETER LIGHTNING ARRESTOR SPIKE. EXTEND 2'-0" BELOW CONCRETE
0550.26	METAL PAN STAIR. FILL WITH CONCRETE
0550.29	STEEL TUBE STRINGER
0550.30	1/4" STEEL PLATE
0550.33	METAL LADDER
0550.34	METAL SHIPS LADDER
0550.38	PIPE SLEEVE
0550.39	1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL (3'-0" HIGH U.N.O.)
0550.40	1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL WITH 3/8" PLATE STEEL BRACKETS AT 5'-0" O.C. MAX.
0550.41	1 1/4" STANDARD STEEL PIPE GUARDRAIL (3'-6" HIGH) TOP RAIL
0550.42	1 1/4" STANDARD STEEL PIPE HANDRAIL
0550.43	HANDRAIL BRACKET
0550.57	4"x4"x3/8" STL. ANGLE W/1/2" O.D. ANCHOR BOLTS @24" O.C. - VERIFY WITH ELEVATOR MANUFACTURER IF REQUIRED
0550.62	
0550.63	
0550.65	
0550.68	MINIMUM OF (1) 12 GAGE WIRE ATTACHED TO FIXTURE AND ANCHORED TO STRUCTURE ABOVE FOR UPTO 56 lbs. & W/ UPRIGHT STRUTS
0550.69	ANGLE MOLDING
0550.70	FASTENER
0550.71	WARNING STRIPE
0550.80	2" X 12" STEEL TUBE
0550.81	1 1/4" DIAMETER STANDARD STEEL PIPE GUARDRAIL POST
0550.82	1 1/4" DIAMETER STANDARD STEEL PIPE BOTTOM RAIL
0550.91	ANGULAR STEEL BRACKET SECURED TO METAL STUD
0550.92	1 X 1 METAL CLIP ANGLE
0550.99	6" x 2" H. NOTCH AT EACH METAL BLOCK, TYPICAL
0570.10	3/4" DIAMETER SOLID STEEL VERTICAL PICKET
0610.02	1X WOOD BLOCKING
0610.03	2X WOOD BLOCKING
0610.04	2X PRESSURE TREATED WOOD BLOCKING
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0610.06	5/8" EXTERIOR GRADE PLYWOOD
0610.07	3/4" EXTERIOR GRADE PLYWOOD
0610.08	2 LAYERS 3/4" EXTERIOR GRADE PLYWOOD BLOCKING
0610.28	1" x 3" CEDAR BATTEN
0610.37	1 X 2 ROOF BATTEN
0620.02	1X HARDWOOD TRIM
0640.03	PLASTIC LAMINATE VENEER BASE CABINETS WITH ADJUSTABLE SHELVES
0640.04	PLASTIC LAMINATE VENEER WALL CABINETS WITH ADJUSTABLE SHELVES
0640.05	PLASTIC LAMINATE COUNTERTOP / 4" SPLASH AS SHOWN
0640.07	3/4" PLYWOOD
0640.18	ADJUSTABLE SHELVING
0640.21	3" WIRE GROMMET
0640.22	WIRE PULLS
0640.24	ADJUSTABLE METAL SHELF STANDARDS. PROVIDE BLOCKING IN WALL AS REQUIRED
0640.42	PLASTIC LAMINATE WARDROBE
0640.46	PLASTIC LAMINATE CABINET DOOR
0640.57	WOOD TRELLIS
0640.59	
0640.60	
0640.64	
0640.66	
0640.68	
0640.69	
0640.72	
0710.01	BITUMINOUS DAMPPROOFING
0710.03	15 LB. ASPHALT FELT
0710.05	WATER PROOFING MEMBRANE
0710.08	DAMPROOFING MASTIC
0720.03	5 1/2" NATURAL FIBER INSULATION
0720.05	2" RIGID CAVITY INSULATION
0720.08	4" RIGID INSULATION
0720.09	1/2" RIGID INSULATION COVERBOARD
0720.11	TAPERED INSULATION CRICKET
0720.16	CONTINUOUS WATERPROOFING FINISH COAT
0720.18	6 1/4" BATT INSULATION, R-22
0720.19	1 1/2" MINERAL FIBER INSULATION BOARD
0724.01	E.I.F.S. W/ R-5 INSULATION
0725.05	SEALANT
0730.05	CONCRETE FLAT ROOF TILES
0730.06	CONCRETE FLAT ROOF RIDGE TILES
0730.07	CONCRETE FLAT ROOF RAKE TILES
0740.03	PREFINISHED METAL WALL / SOFFIT PANEL WITH REVEALS
0740.15	PREFINISHED ALUMINUM COMPOSITE PANEL SYSTEM
0740.30	PREFINISH METAL SLOPING SILL WITH CONTINOUS CLEAT AND SEALANT AT EDGES
0750.01	ROOFING BASE FLASHING SYSTEM
0750.02	EXTEND BASE FLASHINGS TO OUTSIDE FACE OF BLOCKING
0750.03	4" CANT
0750.07	2-PLY MODIFIED BITUMEN MEMBRANE ROOFING SYSTEM
0750.08	EPDM MEMBRANE ROOFING SYSTEM
0750.09	PVC MEMBRANE ROOFING SYSTEM
0750.11	HEAT-WELDED LAP
0760.02	THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.)
0760.03	PREFINISHED METAL GUTTER
0760.04	6" PREFINISHED METAL DOWNSPOUT
0760.07	HOT-DIPPED GALVANIZED METAL OVERFLOW SCUPPER (8" H X 12" W CLEAR) WITH PREFINISHED METAL FACING
0760.10	GALVANIZED STRAP
0760.12	PREFINISHED METAL CANOPY GUTTER / FASCIA
0760.21	GALVANIZED METAL GRAVEL GUARD
0760.24	PREFINISHED METAL DRIP EDGE WITH FACTORY WELDED SKIRT
0760.29	PREFINISHED METAL FLASHING & COUNTER FLASHING
0760.38	BRAKE METAL FASCIA
0770.01	PREFINISHED METAL COPING SYSTEM
0770.02	CONTINUOUS CLEAT
0770.03	PREFORMED PREFINISHED METAL FLASHING WITH ALL SEAMS WELDED WATERTIGHT
0770.04	PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING
0770.05	GALVANIZED REGLET WITH SEALANT AND COUNTERFLASHING
0770.06	PRE-MANUFACTURED PIPE SUPPORT AT 4'-0" O.C. (STACK AS REQUIRED)
0770.07	PREFABRICATED EQUIPMENT SUPPORT
0770.08	EQUIPMENT CURB WITH GALVANIZED COUNTERFLASHING
0770.09	ROOF HATCH WITH INTEGRAL COUNTERFLASHING
0770.11	WALK PAD. SET IN ASPHALT
0770.16	4 LB. LEAD FLASHING. SET IN PLASTIC CEMENT AND EXTEND 2'-0" FROM DRAIN
0770.18	CONCRETE SPLASH BLOCK
0770.22	PIPE UMBRELLA WITH SEALANT
0770.28	ROOF VENT
0780.05	PENETRATION FIRESTOPPING
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0790.02	CAULKING
0790.09	JOINT SEALANT
0810.02	HOLLOW METAL FRAME
0810.05	JAMB ANCHOR (3 PER JAMB)
0810.06	HOLLOW METAL DOOR
0830.17	SECTIONAL DOOR
0830.18	SECTIONAL DOOR TRACK
0840.01	ALUMINUM STOREFRONT
0840.02	ALUMINUM STOREFRONT DOOR
0840.03	.060 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
0840.05	CONTINUOUS ALUMINUM SILL FLASHING
0840.14	ALUMINUM LEGG SILL BY CURTAINWALL MANUFACTURER
0850.01	FIXED ALUMINUM WINDOW
0850.02	OPERABLE ALUMINUM WINDOW
0870.01	METAL THRESHOLD. SET IN SEALANT
0880.13	1/4" GLASS MIRROR
0890.01	PREFINISHED FIXED ALUMINUM LOUVER (WITH INSECT SCREEN)
0890.05	CLOTHES DRYER VENT WITH FLAP
0890.08	4" ALUMINUM VENT SCREED
0890.09	PRE FABRICATED METAL ROOF VENT
0920.01	1 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.02	2 1/2" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.03	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 8" O.C.
0920.04	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.05	4" METAL STUDS AT 16" O.C.
0920.07	6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.08	STUD BRACE AT 4'-0" O.C. MAX.
0920.10	7/8" FURRING CHANNEL AT 16" O.C.
0920.11	1/2" RESILIENT CHANNEL AT 16" O.C. HORIZONTAL
0920.13	2 1/2" METAL C-H STUDS AT 2'-0" O.C.
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.20	METAL LATH
0920.23	ALUMINUM "F" REGLET
0920.26	5/8" CEMENTITIOUS BACKER BOARD
0920.27	1/2" GYPSUM SHEATHING
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.33	1" SHAFT LINER
0920.34	GYPSUM BOARD GUSSETS AT 16" O.C.
0920.35	CORNER BEAD, TYPICAL
0920.36	J-MOULD, TYPICAL
0920.46	CROSS FURRING CHANNELS
0920.47	MAIN RUNNER
0920.50	WIND CLIP WHEN REQUIRED
0920.51	METAL EAVE RISER STRIP/CLOSURE (WITH WEEP HOLES FOR DRAINAGE)
0920.52	CEMENT PLASTER SKIM COAT O/ CMU
0930.01	CERAMIC TILE
0930.02	COVED CERAMIC TILE BASE
0930.03	QUARRY TILE
0930.10	METAL TILE TRIM
0930.11	PORCELAIN TILE VENEER THINSET ON PLASTER SCRATCH & BROWN COAT
0930.12	PORCELAIN TILE COVED BASE
0930.13	PORCELAIN TILE VENEER THINSET ON CONCRETE WALL
0950.01	SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2' X 2')
0950.08	SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
0950.09	CEILING CLOSURE SYSTEM
0960.13	4" RESILIENT BASE
0960.14	RUBBER TREAD / RISER / FLOORING
0960.19	4" RUBBER BASE
0980.03	3 1/2" FIBERGLASS SOUND ATTENUATION INSULATION
0980.14	3" MINERAL WOOL INSULATION
0980.15	
1020.16	STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG)
1020.17	STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG)
1020.19	STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (L-SHAPED)
1020.20	SOAP DISPENSER (SURFACE-MOUNTED)
1020.24	STAINLESS STEEL SURFACE MOUNTED TOILET PAPER DISPENSER
1020.32	STAINLESS STEEL FRAMED MIRROR
1020.34	VINYL-COATED PIPING WRAP
1020.37	WALL-MOUNTED FOLDING SHOWER SEAT. PROVIDE BLOCKING IN WALL AS REQUIRED
1020.46	WALL MOUNTED TOILET SEAT COVER DISPENSER
1070.03	GROUND-SET FLAGPOLE
1070.05	FLAGPOLE COLLAR
1070.06	FLAGPOLE CLEAT
1130.01	MICROWAVE
1130.02	REFRIGERATOR
1130.06	WASHING MACHINE
1130.07	CLOTHES DRYER
1130.09	GAS RANGE
1130.12	RANGE HOOD
1220.05	MOTORIZED WINDOW SHADES
1230.19	SOLID SURFACE COUNTERTOP WITH 4" SPLASH AS SHOWN
1230.23	QUARTZ COUTNERTOP WITH SPLASH AS SHOWN
1250.04	XXX
2110.04	FIRE SPRINKLER RISER
2110.07	2" FIRE SPRINKLER HEAD CUT OUT
2210.02	PIPE SLEEVE AND SEAL
2210.06	FLOOR DRAIN
2210.10	GREASE INTERCEPTOR
2210.13	ROOF DRAIN / OVERFLOW ROOF DRAIN
2210.14	3" ROOF DRAIN PIPING
2240.01	WATER CLOSET. ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
2240.03	WALL-HUNG LAVATORY WITH CARRIER
2240.04	PORCELAIN LAVATORY
2240.07	SINK FITTINGS
2240.09	SHOWER HEAD
2240.10	HANDICAP ACCESSIBLE SHOWER HEAD
2240.12	UTILITY SINK
2310.01	GAS PIPING (PAINT WHERE EXPOSED)
2330.01	HVAC DUCTWORK
2330.03	MOTORIZED DAMPER
2350.01	METAL FLUE WITH BASE AND COLLAR
2650.01	RECESSED LIGHT FIXTURE
2650.04	PENDANT LIGHT FIXTURE
2650.08	LAY-IN FLUORESCENT LIGHT FIXTURE
3290.01	LANDSCAPE BED

MASTERFORMAT 2004

THE MASTER KEYNOTE LIST USES CSI MASTERFORMAT 2004 EDITION LEVEL 2 NUMBERS AND TITLES

EXAMPLE KEYNOTE

0960.01 - 09 (DIVISION) 60 (LEVEL 2) .01 (UNIQUE IDENTIFIER)

DIVISION 01 GENERAL REQUIREMENTS

DIVISION 02 EXISTING CONDITIONS (TO REMAIN, U.N.O.) & DEMOLITION

DIVISION 03 CONCRETE

DIVISION 04 MASONRY

DIVISION 05 METALS

DIVISION 06 WOOD, PLASTICS, & COMPOSITES

DIVISION 07 THERMAL & MOISTURE PROTECTION

DIVISION 08 OPENINGS

DIVISION 09 FINISHES

DIVISION 10 SPECIALTIES

DIVISION 11 EQUIPMENT

DIVISION 12 FURNISHINGS

DIVISION 21 FIRE SUPPRESSION (RE: PLUMBING)

DIVISION 22 PLUMBING (RE: PLUMBING)

DIVISION 25 INTEGRATED AUTOMATION

DIVISION 26 ELECTRICAL (RE: ELECTRICAL)

DIVISION 27 COMMUNICATIONS

DIVISION 28 ELECTRONIC SAFETY & SECURITY

DIVISION 31 EARTHWORK

DIVISION 32 EXTERIOR IMPROVEMENTS

DIVISION 33 UTILITIES (RE: CIVIL & MEP)

NOT FOR CONSTRUCTION

LICENSED ARCHITECT — EDWARD WATFORD — C-17552 — STATE OF CALIFORNIA

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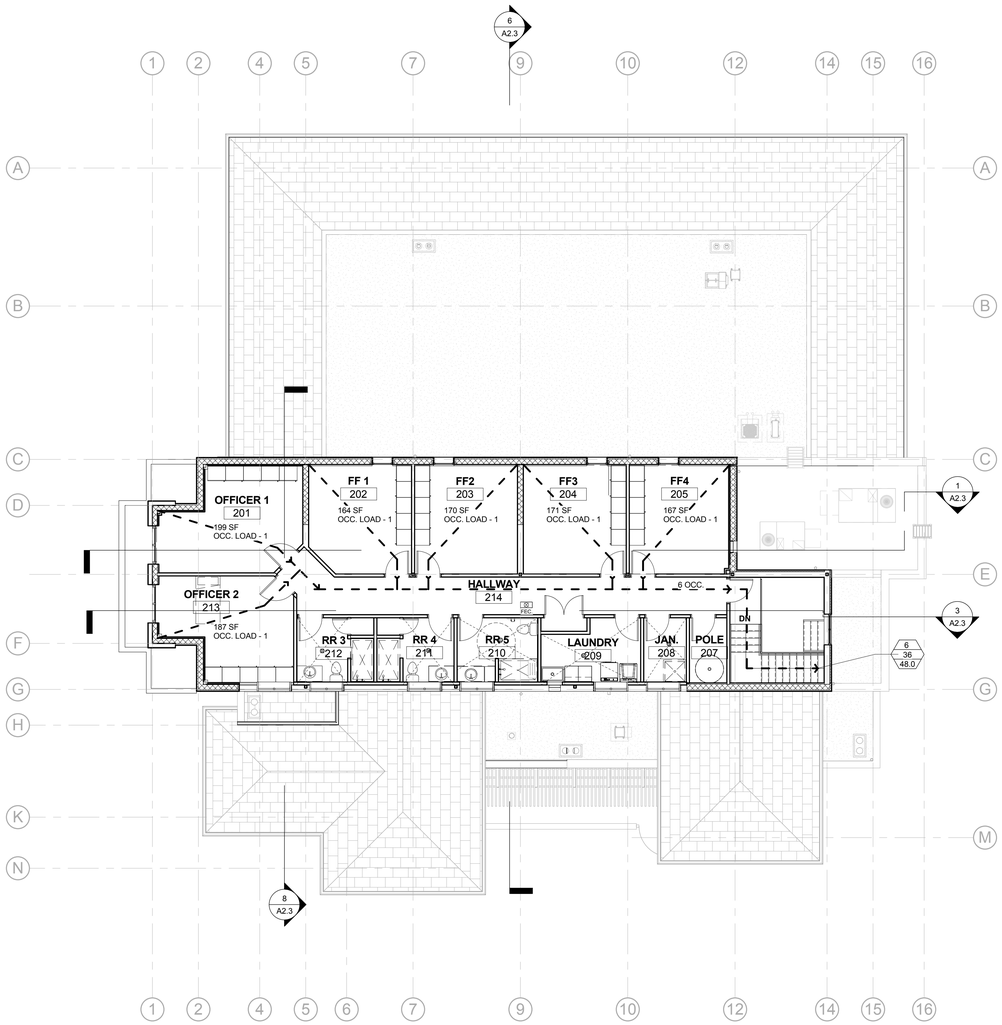
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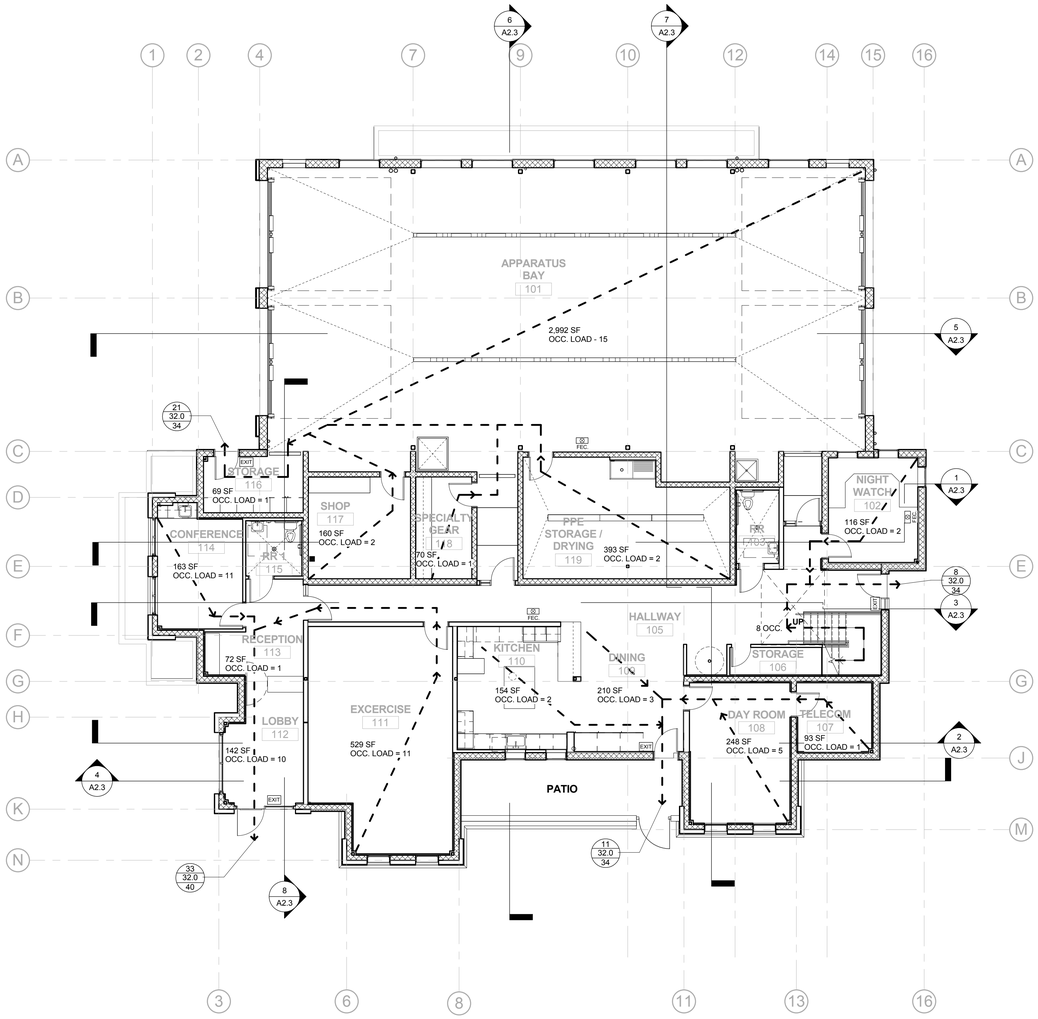
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

T1.2

MASTER KEYNOTE LIST





2 SECOND FLOOR EGRESS PLAN - TOTAL INTERIOR FLOOR AREA: 2,064 SF

1/8" = 1'-0"

1 FIRST FLOOR EGRESS PLAN - TOTAL INTERIOR FLOOR AREA: 6,883 SF

1/8" = 1'-0"

CODE ANALYSIS

Project Scope: New Fire Station #3, driveway, plaza and landscaping

Use and Occupancy Classification Section 303 & 304
Primary Occupancy: Business Group B

General Building Heights and Areas Section 503
Max. Building Height/Type V-B: 40 ft. / 2-Stories
Proposed: 30 ft. / 2-Stories

Construction Type: V-B-Sprinkled

Membrane Roof Section 3102.3.1:
Roof Membrane to comply with State Fire Marshall and NFPA 701

Allowable Area: per Table 503 and Section 507.4
Max. Allowable = 9,000 SF
Allowable Area Increase for Sprinkled Building: 9,000 x 3 = 27,000 SF
Proposed = 8,948 SF < 27,000 SF

Means of Egress Section 1004
Calculated Load for First Floor:
(B) Business / Office: 805 SF / 100 = 11
(B) Business / Meeting: 305 SF / 15 = 22
(B) Exercise: 529 / 50 = 11
(B) Dayroom (library function): 248 / 50 = 5
(B) Storage: 532 / 300 = 4
(B) Garage (App Bay): 2,992 / 200 = 15
Total Calculated Load: 67

Egress Width Section 1005
71 x 0.2 = 14.2 inches required
(4) 3 foot wide (36 inches) doors = **144 inches** > 14.2 inches

Exit Access Travel Distance Section 1016
B with Sprinklers = 300 feet Max.
Proposed Distance = 95 feet max. < 300 feet

Means of Egress Section 1004

Calculated Load for Second Floor:
(B) Officer/FF Rooms (residential): 1,058 SF / 200 = 6
Total Calculated Load: 6

Egress Width Section 1005
6 x 0.3 = 1.8 inches required
4 foot wide (48 inches) stairway = **48 inches** > 1.8 inches

Exit Access Travel Distance Section 1016
B with Sprinklers = 300 feet Max.
Proposed Distance = 75 feet < 300 feet

Portable fire extinguishers: Total (4) – One at Hallway by Kitchen, Night Watch Room, App Bay, and Hallway by Living Quarters (2nd floor)
B with Sprinklers =300 feet Max.

Plumbing Fixtures Requirements: Public

Occupancy Count
1st Floor (Lobby) = 10 occupants

Public Restrooms: 5 Male
Water Closets = 1
Lavatories = 1
Public Restrooms: 5 Female
Water Closets = 1
Lavatories = 1

Plumbing Fixtures Provided: Public

Unisex Restroom (1)
Water Closets = 1
Lavatories = 1

Plumbing Fixtures Requirements: Private

Occupancy Count
1st Floor = 52
2nd Floor = 6
Total Occupants = 58

Private Restrooms: 29 Male
Water Closets = 2
Lavatories = 1

Private Restrooms: 29 Female
Water Closets = 2
Lavatories = 1

Plumbing Fixtures Provided: Private

Unisex Restrooms (3)
Water Closets = 3
Lavatories = 3

OCCUPANCY AND AREA TABULATION (PER CBC TABLE 1004.1.2)

ROOM NUMBER	ROOM NAME	AREA NET	FUNCTION	LOAD FACTOR	OCCUANTS
101	APP BAY	2,992	GARAGE	200	15
102	NIGHT WATCH	116	BUSINESS	100	2
107	TELECOM	93	BUSINESS	100	1
108	DAYROOM	248	LIBRARY	50	5
109	DINING	210	BUSINESS	100	3
110	KITCHEN	154	BUSINESS	100	2
111	EXERCISE	529	EXERCISE	50	11
112	LOBBY	142	ASSEMBLY	15	10
113	RECEPTION	72	BUSINESS	100	1
114	CONFERENCE	163	ASSEMBLY	15	11
116	STORAGE	69	STORAGE	300	1
117	SHOP	160	BUSINESS	100	2
118	SPECIALITY GEAR	70	STORAGE	300	1
119	PPE STORAGE / DRYING	393	STORAGE	300	2
TOTAL 1ST FLOOR		5,411			67
201	OFFICER 1	199	RESIDENTAIL	200	1
202	FF 1	164	RESIDENTAIL	200	1
203	FF 2	170	RESIDENTAIL	200	1
204	FF 3	171	RESIDENTAIL	200	1
205	FF 4	167	RESIDENTAIL	200	1
213	OFFICER 2	187	RESIDENTAIL	200	1
TOTAL 2ND FLOOR		1,058			6
TOTAL 1ST & 2ND					77

STAIRWAY OCCUPANT LOAD DESIGNATION

100 = NUMBER OF OCCUPANTS
30.0 = STAIR WIDTH REQUIRED (INCHES)
60 = STAIR WIDTH PROVIDED (INCHES)

DOOR OCCUPANT LOAD DESIGNATION

100 = NUMBER OF OCCUPANTS
20.0 = EXIT WIDTH REQUIRED (INCHES)
34 = EXIT WIDTH PROVIDED (INCHES)
36"DR=34"
72"DR=68"

EXIT = 'EXIT' SIGN, SEE DETAIL 3/T1.3

FEC = FIRE EXTINGUISHER CABINET SURFACE MOUNTED

NOT FOR CONSTRUCTION

LICENSED ARCHITECT — C-17552 — STATE OF CALIFORNIA

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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

T1.3

EGRESS PLANS / CODE REVIEW

LEGEND

	EXISTING	PROPOSED
SAWCUT AND CONFORM LINE		
RETAINING WALL		
A.C. PAVEMENT		
CONC. VALLEY GUTTER		
CONC. SIDEWALK OR PAD		
6" CURB & GUTTER		
EDGE OF A.C. PAVEMENT	EP	
6" VERTICAL CURB		
CENTER LINE		
SANITARY SEWER MAIN	8" SS	8" SS
STORM DRAIN MAIN	12" SD	15" SD
PERFORATED PIPE		6" SD
WATER MAIN	6" W	6" W
FIRE WATER MAIN	6" FW	4" FW
DOMESTIC WATER MAIN	6" DW	4" DW
CHILLED WATER MAIN	6" CHW	4" CHW
IRRIGATION LINE	2" IRR	4" IRR
HOT WATER SUPPLY & RETURN	HWS HWR	HWS HWR
STEAM LINE	ST	STM
TRENCH DRAIN		
CONDENSATE RETURN		CR
METAL BEAM GUARD RAIL		
SILT FENCE		
FLOW LINE		
CHAIN LINK FENCE	x x	x x
GAS MAIN	G	2" G
CAP AND PLUG END DUCT BANK	E	E
OVERHEAD ELECTRIC LINE	OHE	
UNDERGROUND ELECTRIC LINE	UGE	UGE
STREET LIGHT CONDUIT	SL	
CONTOUR ELEVATION LINE	85	90 89
SPOT ELEVATION	x 95.94	FG 95.94
DIRECTION OF SLOPE		2:1 1%
GAS METER	GM	GM
GAS VALVE	GV	GV
WATER METER	WM	WM
WATER VALVE	WV	WV
FIRE HYDRANT		
BACK FLOW PREVENTOR		
POST INDICATOR VALVE		PIV
FIRE DEPARTMENT CONNECTION		
WATER LINE TEE		
ELECTRIC AND SIGNAL		
AIR RELEASE VALVE		ARV
SIGN		
ACCESSIBLE RAMP		
CONCRETE THRUST BLOCK		
REDUCER		
SANITARY SEWER MANHOLE		
SANITARY SEWER CLEANOUT	SSCO	SSCO
STORM DRAIN MANHOLE		
STORMCEPTOR		
STORM DRAIN AREA DRAIN		
STORM DRAIN CATCH BASIN	CB	
STORM DRAIN CURB INLET		
STORM DRAIN CLEANOUT	SDCO	SDCO
ELECTROLIER		
JOINT POLE	JP	
OVERLAND RELEASE		
CONSTRUCTION DETAIL REFERENCE		15 / C5.2 DETAIL REFERENCE / SHEET REFERENCE

ABBREVIATIONS

AB	–	AGGREGATE BASE
AC	–	ASPHALT CONCRETE
AD	–	AREA DRAIN
ADA	–	AMERICANS WITH DISABILITIES ACT
ASB	–	AGGREGATE SUBBASE
BC	–	BEGINNING OF CURVE
BFP	–	BACK FLOW PREVENTOR
BLDC	–	BUILDING CORNER
BLDG	–	BUILDING
BOD	–	BOTTOM OF DOCK
BOL	–	BOLLARD
BOS	–	BOTTOM OF STEP
BOW	–	FG @ BOTTOM OF WALL
BVC	–	BEGIN VERTICAL CURVE
BW	–	BACK OF WALK
C	–	CONCRETE OR CIVIL
C&G	–	CURB AND GUTTER
CB	–	CATCH BASIN
CI	–	CURB INLET
CIP	–	CAST IRON PIPE
CL	–	CENTER LINE OR CLASS
CMP	–	CORRUGATED METAL PIPE
CO	–	CLEANOUT
CONC	–	CONCRETE
CONST	–	CONSTRUCTION OR CONSTRUCT
CY	–	CUBIC YARD
DCDA	–	DOUBLE CHECK DETECTOR ASSEMBLY
DI	–	DROP INLET
DIP	–	DUCTILE IRON PIPE
DOM	–	DOMESTIC
DW	–	DOMESTIC WATER
DWG	–	DRAWING
E	–	EAST
EC	–	END OF CURVE
EP	–	EDGE OF PAVEMENT
ER	–	END OF RETURN
EVC	–	END VERTICAL CURVE
ELEV	–	ELEVATION
EX., EXIST.	–	EXISTING
FC	–	FACE OF CURB
FDC	–	FIRE DEPARTMENT CONNECTION
FF	–	FINISHED FLOOR
FG	–	FINISHED GRADE
FH	–	FIRE HYDRANT
FL	–	FLOW LINE
FOUND	–	FOUNDATION
FS	–	FINISHED SURFACE
FT	–	FOOT
FW	–	FIRE WATER
G	–	GROUND ELEVATION
GB	–	GRADE BREAK
GV	–	GATE VALVE
HCR	–	ACCESSIBLE RAMP
HP	–	HIGH POINT
INV	–	INVERT ELEVATION
JP	–	JOINT POLE
JT	–	JOINT TRENCH
LIP	–	LIP OF GUTTER
LP	–	LOW POINT
LSA	–	LANDSCAPE ARCHITECT
MAX	–	MAXIMUM
MEP	–	MECHANICAL/ELECTRICAL/PLUMBING
MH	–	MANHOLE
MIN	–	MINIMUM
MPVC	–	MIDPOINT OF VERTICAL CURVE
MON	–	MONUMENT
N	–	NORTH
N.I.C.	–	NOT IN CONTRACT
NO	–	NUMBER
NTS	–	NOT TO SCALE
P	–	PAVEMENT ELEVATION
PCC	–	PORTLAND CEMENT CONCRETE / POINT OF CONTINUOUS CURVATURE
PIV	–	POST INDICATOR VALVE
PL	–	PROPERTY LINE
PMH	–	POWER MANHOLE
POC	–	POINT ON CURVE
PP	–	POWER POLE
PRC	–	POINT OF REVERSE CURVATURE
PVC	–	POLYVINYL CHLORIDE PIPE
R	–	RADIUS
RC	–	RELATIVE COMPACTION
RCP	–	REINFORCED CONCRETE PIPE
RPPA	–	REDUCED PRESSURE PRINCIPLE ASSEMBLY
R/W	–	RIGHT OF WAY
S	–	SLOPE OR SOUTH
S.A.D.	–	SEE ARCHITECTURAL DRAWINGS
SB	–	SEDIMENT BASIN
SD	–	STORM DRAIN
S.E.D.	–	SEE ELECTRICAL DRAWINGS
SF	–	SILT FENCE
SG	–	SUBGRADE
S.L.D.	–	SEE LANDSCAPE DRAWINGS
S.M.D.	–	SEE MECHANICAL DRAWINGS
SMH	–	SIGNAL MANHOLE
S.P.D.	–	SEE PLUMBING DRAWINGS
SS	–	SANITARY SEWER
STA	–	STATION
STD	–	STANDARD
S/W	–	SIDEWALK
TC	–	TOP OF CURB
TD	–	TRENCH DRAIN
TOD	–	TOP OF DOCK
TOE	–	TOE OF SLOPE
TOS	–	TOP OF STAIR
TOW	–	FG @ TOP OF WALL
TS	–	TOP OF SLAB
TYP	–	TYPICAL
UON	–	UNLESS OTHERWISE NOTED
U/G	–	UNDERGROUND
VC	–	VERTICAL CURVE
WM	–	WATER METER
WV	–	WATER VALVE
W	–	WEST
WPJ	–	WEAKENED PLANE JOINTS
WWF	–	WELDED WIRE FABRIC
W/	–	WITH

CONSTRUCTION NOTES

1. ALL OFF-SITE CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE WITH THE LATEST EDITION OF THE CITY OF ALAMEDA STANDARD PLANS & SPECIFICATIONS AND THE LATEST CALTRANS STANDARD SPECIFICATIONS.
2. CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH THE POLICE AND FIRE DEPARTMENTS.
3. CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
4. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
5. UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE CITY NOR THE DESIGN PROFESSIONAL ASSUMES RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES ENCOUNTERED.
6. CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT U.S.A. 800-227-2600 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL UNDERGROUND FACILITIES.
7. THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM CITY STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES.
8. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MAINTENANCE DISTRICT FOR AIRBORNE PARTICULATES (DUST).
9. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.
10. ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
11. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY DURING THE CONSTRUCTION PERIOD.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.
14. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT ALL TIMES DURING CONSTRUCTION.
15. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY STREETS WILL NOT BE PERMITTED.
16. CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED.
17. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER OR STORM DRAIN.
18. A CONTAINED AND COVERED AREA ON-SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS, PAINTS, FLAMMABLE, OILS, FERTILIZERS, PESTICIDES, OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.
19. ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPSTER WHICH IS EMPTIED OR REMOVED WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORMWATER POLLUTION.
20. ANY TEMPORARY ON-SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.
21. CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.
22. COORDINATE PHASING OF DEMOLITION AND CONSTRUCTION OF OFFSITE WORK, WORK WITHIN NEIGHBORING PROPERTY, AND RECONSTRUCTION OF NEIGHBORING DRIVEWAYS WITH THE CITY AND ADJACENT PROPERTY OWNERS.
23. CONCRETE STRENGTH SHALL BE 3,000 PSI UNLESS OTHERWISE NOTED.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

UTILITY/POTHOLE NOTE

THE TYPES, LOCATIONS, SIZES AND /OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND FACILITIES AND UTILITIES BY POTHOLING PRIOR TO COMMENCING CONSTRUCTION.

ADA NOTES

1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
2. CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
3. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS, THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPEN ONTO THE LANDING.
4. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2%. RAMPS EXCEEDING 2'-6" VERTICAL SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".
5. MAXIMUM CROSS SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2% MAXIMUM. MAXIMUM SLOPE WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING SHALL BE 2% IN ANY DIRECTION.
6. ALL SIDEWALK SHALL HAVE A 4' MINIMUM CLEAR WIDTH FOR ACCESSIBLE CONFORMANCE.

BENCHMARK

PER THE TOPOGRAPHIC SURVEY, DATED APRIL 4, 2014, PERFORMED BY RJA, "BASIS OF ELEVATION DATUM: TRAVERSE STATION DISK, STAMPED "GRAND VISTA 1947", SET IN TOP OF CONCRETE POST IN A SIDEWALK WELL, 8" SOUTH OF THE SOUTH CURB OF BUENA VISTA AVENUE, AND 11' EAST OF THE EAST CURB OF GRAND STREET. ELEVATION TAKEN AS: 10.888"

EARTHWORK NOTE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL MATERIAL AND LABOR REQUIRED WITHIN THE BID PRICE, FOR EARTHWORK CONSTRUCTION, TO CARRY OUT THE CUT/FILL AND/OR IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES SHOWN ON THE PLANS. CONTRACTOR IS TO DELIVER TO OWNER THE PROJECT IN A COMPLETE AND OPERATIONAL MANNER. EARTHWORK QUANTITIES SHOWN ON THE PLANS OR REPRESENTED BY THE ENGINEER ARE APPROXIMATE AND ARE FOR GRADING PERMIT APPROVAL ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ANY INVESTIGATION OR STUDIES THAT ARE REQUIRED BY THE CONTRACTOR TO SATISFY THIS REQUIREMENT. NO ADDITIONAL COMPENSATION SHALL BE PAID FOR SAID CUT/FILL AND/OR IMPORT/EXPORT.

HAZARDOUS MATERIALS NOTE

ASBESTOS CONTAINING PIPE AND PIPE INSULATION IS KNOWN TO EXIST WITHIN THE PROJECT AREA. THE CONTRACTOR WILL PROTECT ALL ASBESTOS CONTAINING ITEMS DURING THE EXECUTION OF THIS CONTRACT. ADDITIONALLY THE CONTRACTOR WILL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS REGARDING CONSTRUCTION ACTIVITIES NEAR ASBESTOS CONTAINING MATERIALS.

CIVIL SHEET INDEX

C0.1	CIVIL NOTES, LEGEND, AND ABBREVIATIONS
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C2.1	DEMOLITION PLAN
C3.1	HORIZONTAL CONTROL PLAN
C4.1	GRADING PLAN
C4.3	GRADING SECTIONS
C5.1	UTILITY PLAN
C6.1	STORMWATER MANAGEMENT PLAN
C6.2	STORMWATER MANAGEMENT DETAILS
C7.1	EROSION CONTROL PLAN
C7.2	EROSION CONTROL DETAILS
C8.1	CONSTRUCTION DETAILS
C8.2	CONSTRUCTION DETAILS
C8.3	CONSTRUCTION DETAILS

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from sole negligence of design professional.

UNAUTHORIZED CHANGES AND USES

CAUTION: The engineer 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 the plans.

811 Know what's **below.** **Call** before you dig.

NOT FOR CONSTRUCTION

LICENSED ARCHITECT — RENEWAL 08/31/2015 — C-17552 — STATE OF CALIFORNIA

BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY
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415.749.2670
WWW.BRWARCH.COM

REGISTERED PROFESSIONAL ENGINEER — ROBERT F. SETERA — No. 62781 — Exp. 6/30/16 — CIVIL — STATE OF CALIFORNIA

SANDIS — CIVIL ENGINEERS, SURVEYORS, PLANNERS — SUNNYVALE | ROSEVILLE | OAKLAND

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CHECKED BY	HP
BRW PROJECT NUMBER	2140713.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02311 14
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C0.1

CIVIL NOTES, LEGEND, & ABBREVIATIONS

LANDS OF EULER
2004-388198

EXISTING BUILDING

EXISTING AC DRIVEWAY

N60°12'25"W 108.00'

LANDS OF BAZARES
2010-093179

LANDS OF KAHRS
1992-117591

LANDS OF BORISOVA
2009-178185

EXISTING BUILDING

EXISTING DIRT DRIVEWAY

N60°12'25"W 108.00'

4.5'±

N29°47'35"E 82.50'

N29°47'35"E 115.50'

WOOD FENCE

ALAMEDA STREET
(60' R/W)

ALAMEDA STREET
(80' R/W)

WATER METER

SANITARY SEWER CLEANOUT

GUY WIRE

N29°47'35"E 100.00'

GAS LINE

R=353.27'
Δ=05°01'49"
L=31.02'

N60°12'25"W 56.81'

20.81'

36.00'

N29°47'35"E 48.31'

N29°47'35"E 67.00'

EXISTING CONCRETE DRIVEWAY

8" TREE

FIRE HYDRANT

BROKEN SIDEWALK

BROKEN SIDEWALK

EX 5' SIDEWALK

4.5'

3.0'

46.00'

36.00'

N60°12'25"W 134.00'

EX 5' PLANTING STRIP

BUENA VISTA AVENUE
(60' R/W)

6" ACP

6" CIP

(6" W)

48" EBMUD INTERCEPTOR

SSMH RIM EL: 11.10'
(N) 6" PVC INV: 6.30'
(S) 6" PVC INV: 6.30'
(E) 8" PVC INV: 7.10'
(W) 8" PVC INV: 7.10'

12" CIP

(12" W)

8" CIP

8" STL

8" STL

8" CIP

15" RCP

21" RCP

54" EBMUD INTERCEPTOR

MH-EBMUD
RIM EL: 11.93'
UNABLE TO OPEN

SSMH RIM EL: 12.09'
(NE) 12" PVC INV: 4.99'
(SW) 12" PVC INV: 5.39'
(W) 8" PVC INV: 5.89'

SDMH RIM EL: 12.06'
(N) 21" RCP INV: 7.06'
(S) 21" RCP INV: 7.06'
(SE) 15" RCP INV: 7.06'

20" CIP

S=0.016 (NOT FIELD VERIFIED)

S=0.008 (NOT FIELD VERIFIED)

GRAPHIC SCALE
0 2 4 6 8 10
1 inch = 10 ft.

SURVEY NOTE

THE BACKGROUND SURVEY SHOWN UPON THESE PLANS ARE A SURVEY PERFORMED BY RJA ENGINEERS PLANNERS SURVEYORS, DATED OCTOBER 23, 2014.

NOT FOR CONSTRUCTION

LICENSED ARCHITECT
CHRISTOPHER HUP
C-17552
STATE OF CALIFORNIA

BROWN REYNOLDS WATFORD
ARCHITECTS
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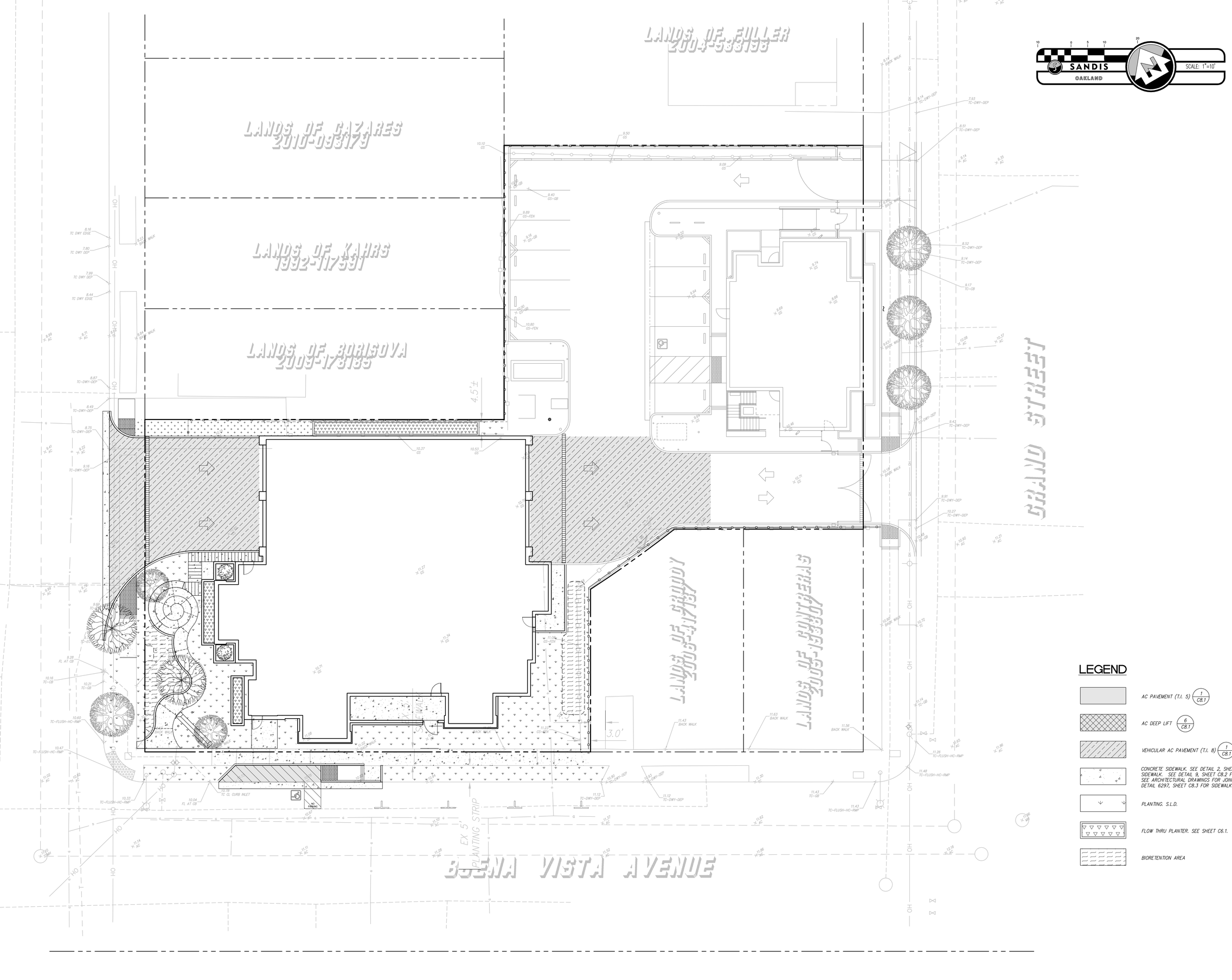
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1623 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C0.2

TOPOGRAPHIC SURVEY
(FOR REFERENCE ONLY)

File: X:\P\614018\PLAN SETS\FIRE STATION\CD\C0.2.dwg Date:Jan 30, 2015



LEGEND

- AC PAVEMENT (T.I. 5) (1 / C8.1)
- AC DEEP LIFT (6 / C8.1)
- VEHICULAR AC PAVEMENT (T.I. 8) (1 / C8.1)
- CONCRETE SIDEWALK. SEE DETAIL 2, SHEET C8.1 FOR ON-SITE SIDEWALK. SEE DETAIL 9, SHEET C8.2 FOR JOINT DETAILS. SEE ARCHITECTURAL DRAWINGS FOR JOINT PATTERN. SEE DETAIL 6297, SHEET C8.3 FOR SIDEWALK IN PUBLIC R.O.W.
- PLANTING. S.L.D.
- FLOW THRU PLANTER. SEE SHEET C6.1.
- BIORETENTION AREA

LICENSED LANDSCAPE ARCHITECT C-17552 REGISTERED RENEWAL 08/31/2016 STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER JEFFREY SETERA No. 62781 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

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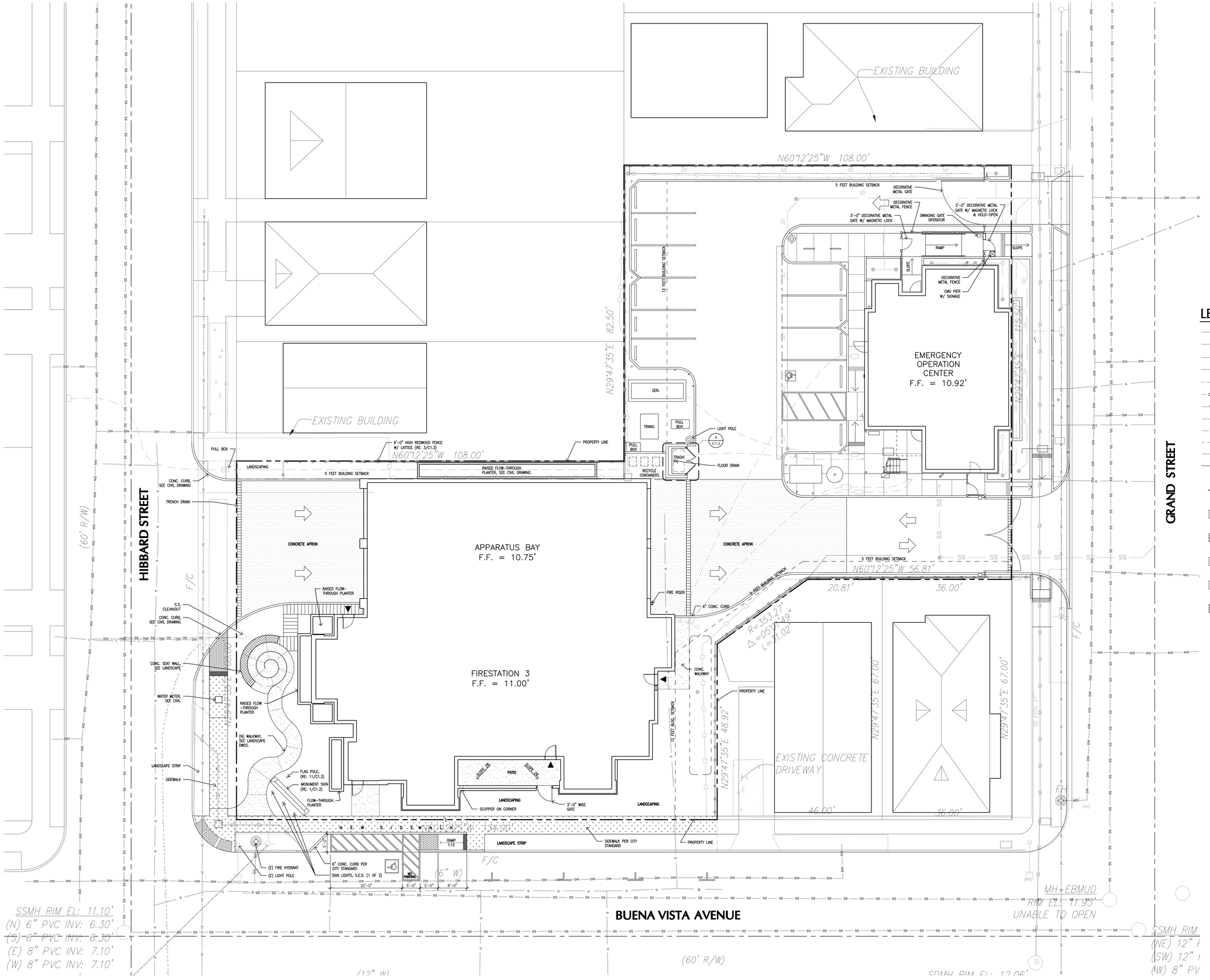
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1622 BUENA VISTA AVE
ALAMEDA, CA 94501

No.	Description	Date

C1.1

CIVIL SITE PLAN

File: X:\P\614018\PLAN SETS\FIRE STATION\CD\C1.1.dwg Date: Jan 30, 2015



LEGEND

- PROPERTY BOUNDARY LINE
- EXISTING PARCEL LINE
- EXISTING WOOD FENCE
- CHAIN LINK FENCE
- TIE LINE
- OVERHEAD LINES
- WATERLINE
- STORM DRAIN
- SANITARY SEWER
- TELECOMMUNICATION
- GAS LINE
- (N) 6'-0" HIGH REDWOOD FENCE W/ LATTICE, RE: 3/C1.3
- (N) DECORATIVE METAL FENCE
- (N) CONC APRON, SEE CIVIL
- (N) CONC. SEAT WALL, SEE LANDSCAPE
- (N) CONC. WALKWAY, SEE LANDSCAPE
- (N) CONC. SIDEWALK, SEE CIVIL
- (N) TRUNCATED DOME, SEE CIVIL
- (N) FLOOR DRAIN

1 SITE PLAN
1" = 10'-0"

PROJECT NORTH
TRUE NORTH

NOT FOR CONSTRUCTION

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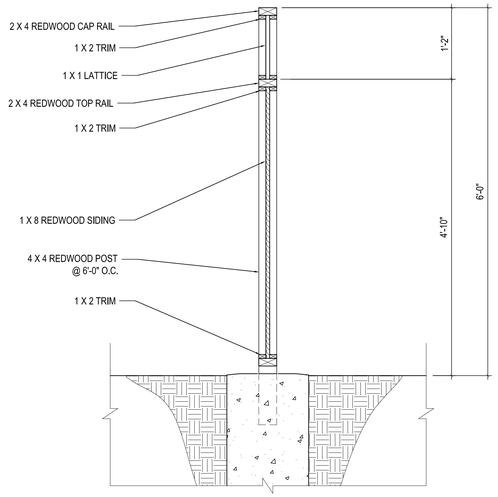
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1629 BUENA VISTA AVE.
ALAMEDA, CA 94501

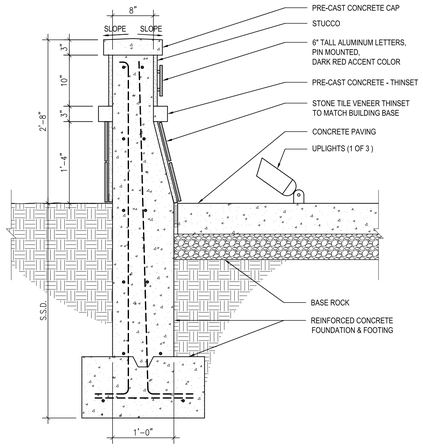
No.	Description	Date

C1.2

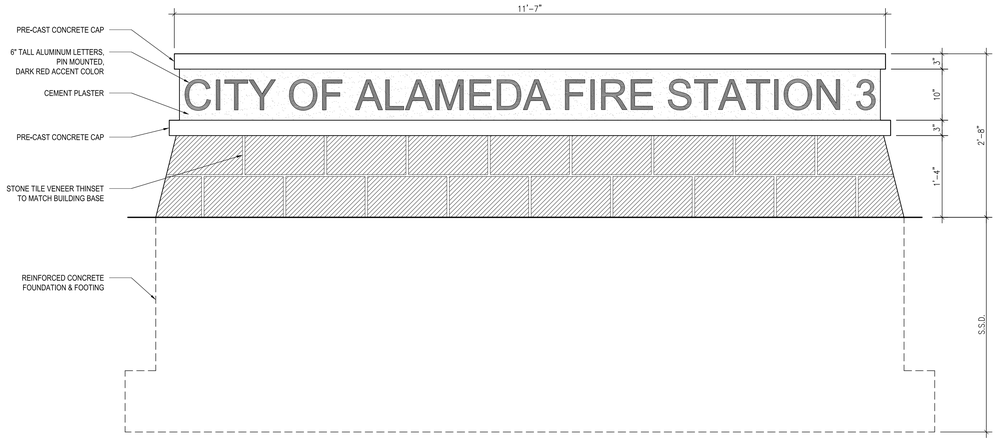
ARCHITECTURAL SITE PLAN



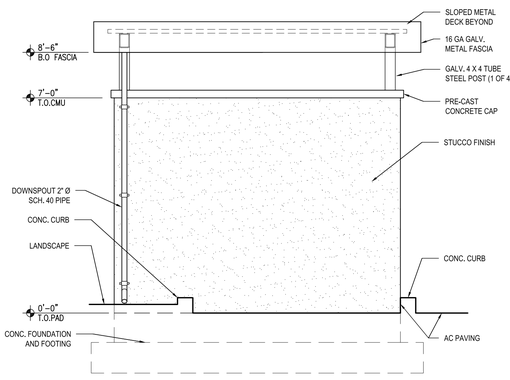
3 WOOD FENCE
1" = 1'-0"



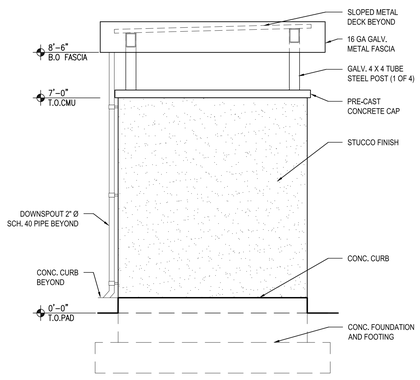
2 MONUMENT SIGN SECTION
1" = 1'-0"



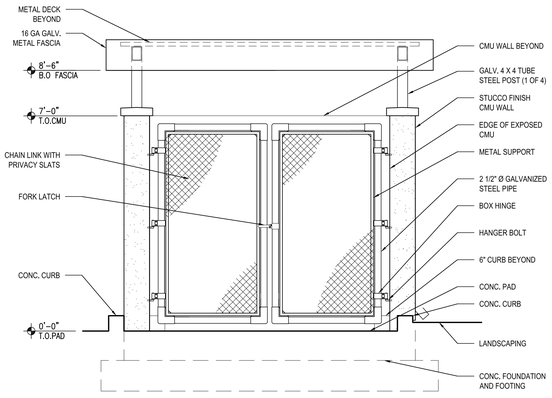
1 MONUMENT SIGN ELEVATION
1" = 1'-0"



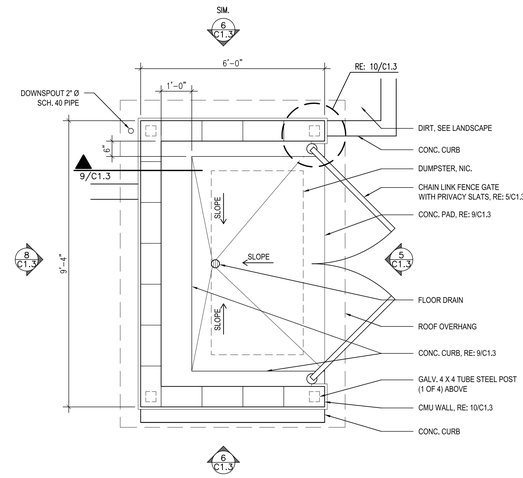
7 EXTERIOR ELEVATION
1/2" = 1'-0"



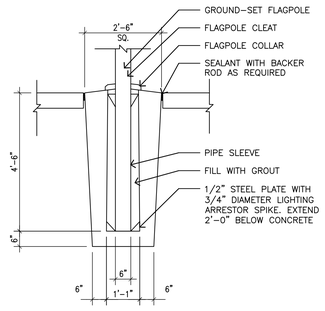
6 EXTERIOR ELEVATION
1/2" = 1'-0"



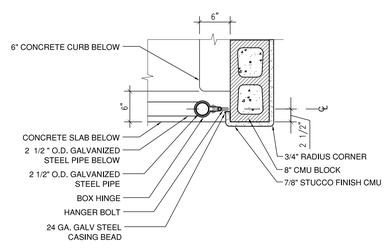
5 EXTERIOR ELEVATION
1/2" = 1'-0"



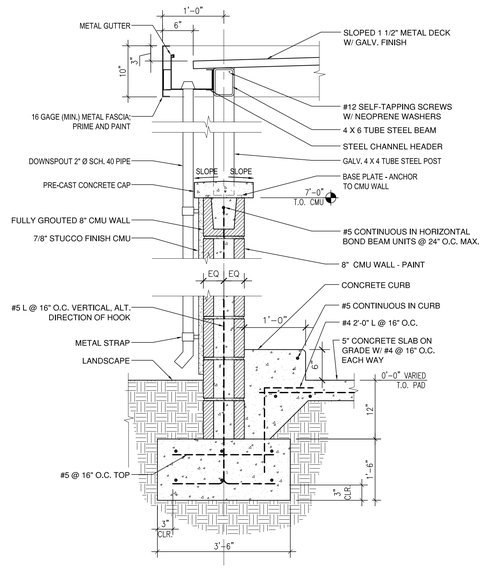
4 TRASH ENCLOSURE - ENLARGED PLAN
1/2" = 1'-0"



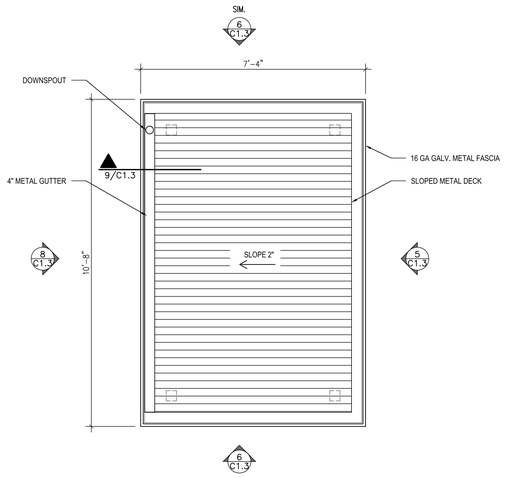
11 FLAG POLE
1/2" = 1'-0"



10 GATE CORNER DETAIL
1" = 1'-0"



9 CONC. CURB & WALL SECTION
1" = 1'-0"



8 TRASH ENCLOSURE - ENLARGED PLAN
1/2" = 1'-0"

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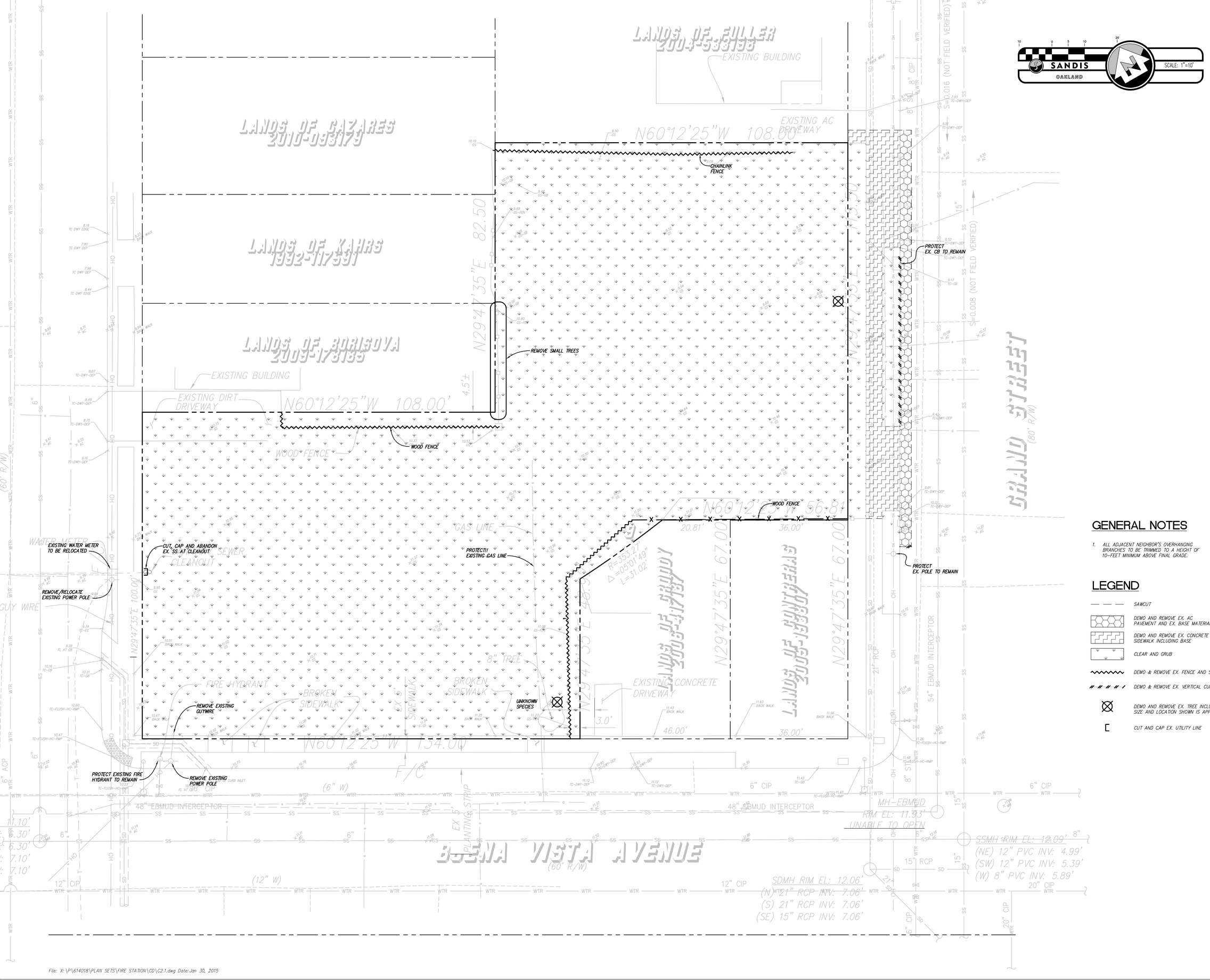
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C1.3

ARCHITECTURAL SITE DETAILS



GENERAL NOTES

1. ALL ADJACENT NEIGHBOR'S OVERHANGING BRANCHES TO BE TRIMMED TO A HEIGHT OF 10-FEET MINIMUM ABOVE FINAL GRADE.

LEGEND

- SAWCUT
- DEMO AND REMOVE EX. AC PAVEMENT AND EX. BASE MATERIAL
- DEMO AND REMOVE EX. CONCRETE SIDEWALK INCLUDING BASE
- CLEAR AND GRUB
- DEMO & REMOVE EX. FENCE AND SMALL TREES ALONG FENCE
- DEMO & REMOVE EX. VERTICAL CURB
- DEMO AND REMOVE EX. TREE INCLUDING ROOTBALL. SIZE AND LOCATION SHOWN IS APPROXIMATE.
- CUT AND CAP EX. UTILITY LINE

NOT FOR CONSTRUCTION

LICENSED ARCHITECT JEFFREY HEINZER C-17552 RENEWAL 08/31/2015 STATE OF CALIFORNIA

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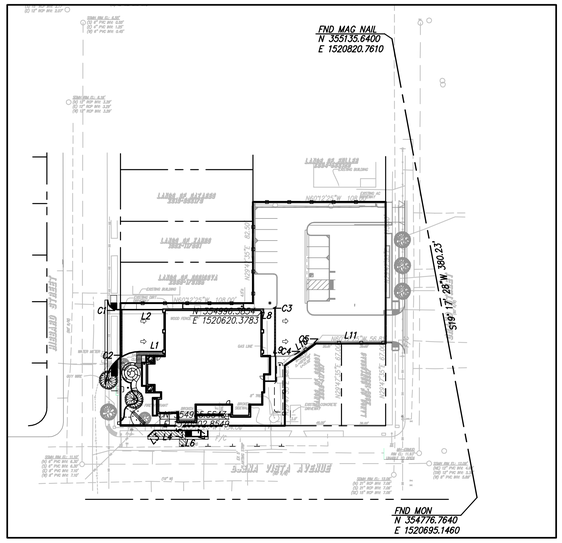
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C2.1

DEMOLITION PLAN

File: X:\P\614018\PLAN SETS\FIRE STATION\CD\C2.1.dwg Date: Jan 30, 2015



BASIS OF BEARINGS

SCALE: 1"=50'

BASIS OF BEARINGS IS A S19°17'28"W LINE FROM A FOUND MAGNAIL (NORTH CORNER OF GRAND ST AND EAGLE AVENUE) TO A FOUND RECORDED MONUMENT (SOUTH CORNER OF GRAND ST AND BUENA VISTA AVE)

SCALE: 1"=10'

LEGEND

STENCIL RED CURB LIMITS WITH "FIRE LANE NO STOPPING" IN WHITE

FIRE ACCESS LANE

LINE TABLE		
LINE	BEARING	LENGTH
L1	N60°12'26"W	18.73'
L2	N60°12'26"W	37.05'
L3	N75°02'31"E	7.10'
L4	S60°12'59"E	38.72'
L5	S29°47'35"W	5.00'
L6	S60°12'59"E	18.50'
L7	S29°47'35"W	5.00'
L8	N60°12'25"W	6.29'
L9	S60°12'25"E	11.95'
L10	N83°59'34"E	8.23'
L11	S60°12'25"E	52.94'

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	12.56'	8.00'	89°55'48"
C2	42.99'	28.00'	87°58'26"
C3	7.85'	5.00'	90°00'00"
C4	15.62'	25.00'	35°48'01"
C5	8.12'	13.00'	35°48'01"

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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVE
ALAMEDA, CA 94501

No.	Description	Date

C3.1

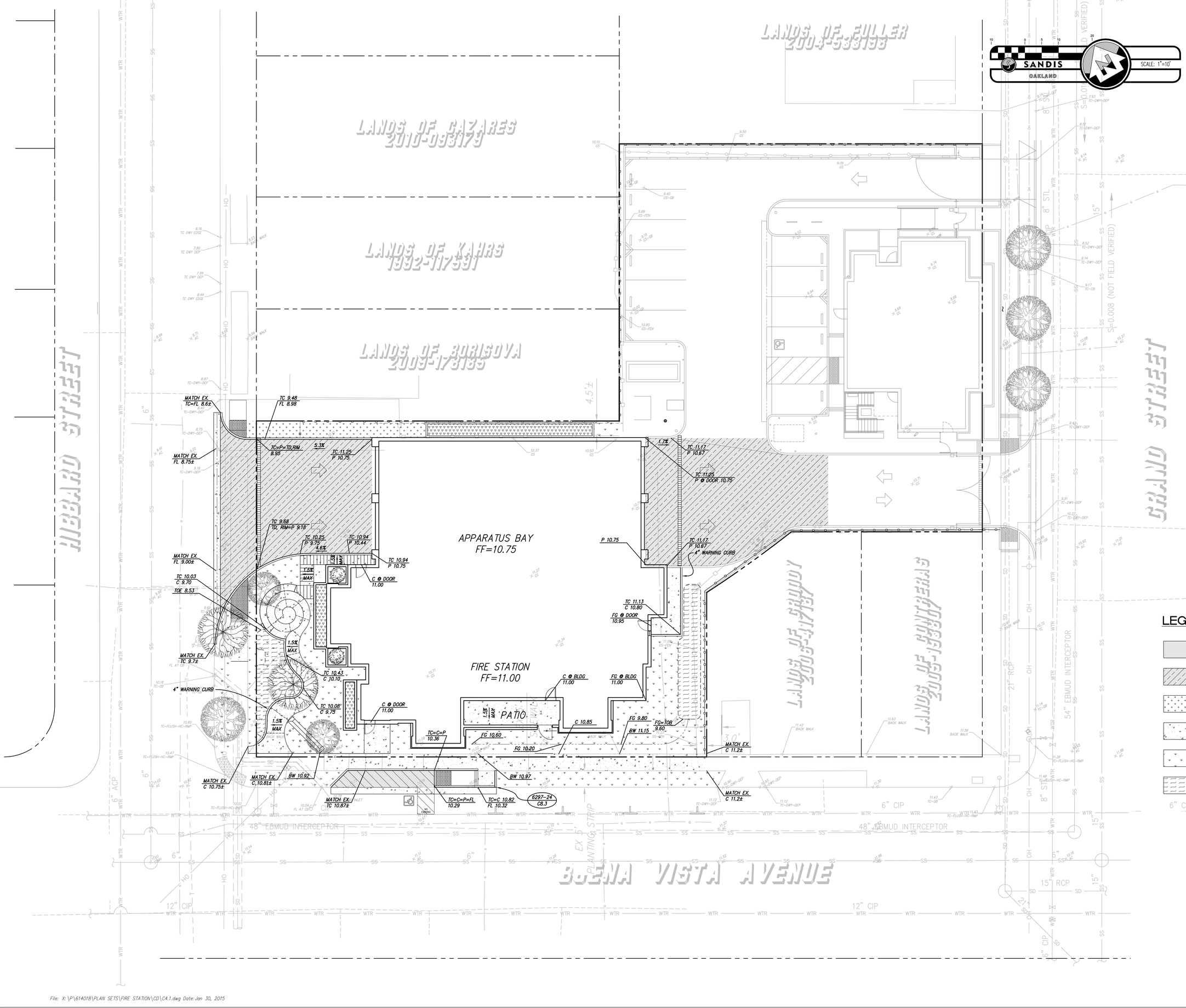
HORIZONTAL CONTROL PLAN

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File: X:\P\614018\PLAN SETS\FIRE STATION\CD\C3.1.dwg Date:Jan 30, 2015



LEGEND

- AC PAVEMENT
- VEHICULAR CONCRETE
- FLOW THROUGH PLANTER
- CONCRETE SIDEWALK
- PLANTING
- BIO-TREATMENT AREA

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DATE: JANUARY 14, 2015
DRAWN BY: IRR / RAB
CHECKED BY: HP
BRW PROJECT NUMBER: 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C4.1

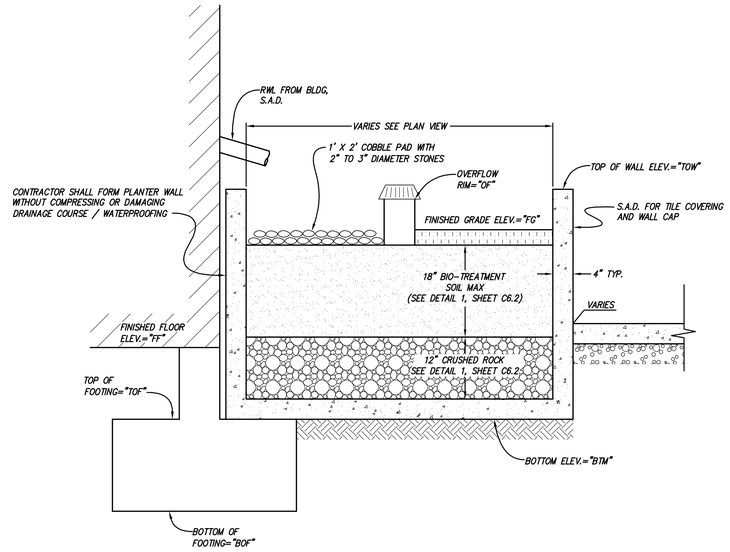
GRADING PLAN

NOT FOR CONSTRUCTION

BROWN REYNOLDS WATFORD
ARCHITECTS
1620 MONTGOMERY
SUITE 320
SAN FRANCISCO, CA 94111
415.749.2670
WWW.BRWARCH.COM

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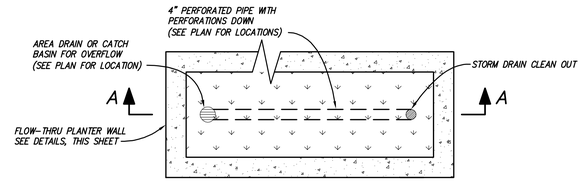
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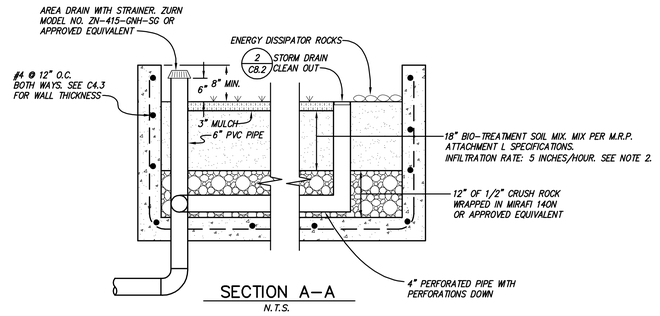
PLANTER ELEVATIONS

PLANTER ID	"FF"	"TOF"	"BTM"	"FG"	"OF"	"TOW"
A	10.75	9.42	9.42	12.50	13.00	13.33
B	11.00	9.67	9.67	12.75	13.25	13.58
C	11.00	9.67	9.67	12.75	13.25	13.58

SECTION A-A
SCALE: 1"=1'



PLAN
N.T.S.



SECTION A-A
N.T.S.

NOTES:
1. CONTRACTOR SHALL OBTAIN AND RETAIN DELIVERY VERIFICATION/CERTIFICATION OF ATTACHMENT L COMPLIANT SOIL MIX FOR USE BY THE CIVIL ENGINEER CERTIFYING COMPLIANCE OF THE STORMWATER TREATMENT MEASURES.
2. THE FOLLOWING VENDORS ARE LISTED ON THE REGIONAL CLEAN WATER PROGRAM WEBSITE AS OFFERING PROVISION C3-COMPLIANT BIOTREATMENT SOIL MIX:
   A. AMERICAN SOIL & STONE PRODUCTS, http://www.americansoil.com/, 510-292-3000
   B. L.H. VOSS MATERIALS, http://www.lhvoss.com, 925-676-7910
   C. LYNGSO GARDEN MATERIALS, http://lyngsogarden.com/, 650-333-1044
   D. PLEASANTON TRUCKING, www.pleasantontrucking.com , 925-449-5400
   E. REDI-GRO, http://www.redi-gro.com/, 916-381-6063
   F. TMT ENTERPRISES, http://www.tmtenterprises.net, 408-432-9040

FOR ADDITIONAL DETAILS AND CONTACT INFORMATION REFERENCE THE CLEAN WATER PROGRAM'S BIOTREATMENT SOIL MIX SUPPLIERS LIST (C.3 SOIL PROVIDERS) AT: http://www.cleanwaterprogram.org/resources/resources-development.html

FLOW-THRU PLANTER (TYP.) 1
N.T.S.

GENERAL NOTE

1. SEE C6.2 FOR TYPICAL FLOW-THROUGH PLANTER DETAILS.

File: X:\P\614018\PLAN SETS\FIRE STATION\CD\C4.3.dwg Date: Jan 30, 2015

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LICENSED ARCHITECT MICHAEL P. WATFORD No. C-17552 REGISTERED STATE OF CALIFORNIA

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PROFESSIONAL ENGINEER MICHAEL SETERA No. 62781 Civil CIVIL REGISTERED STATE OF CALIFORNIA

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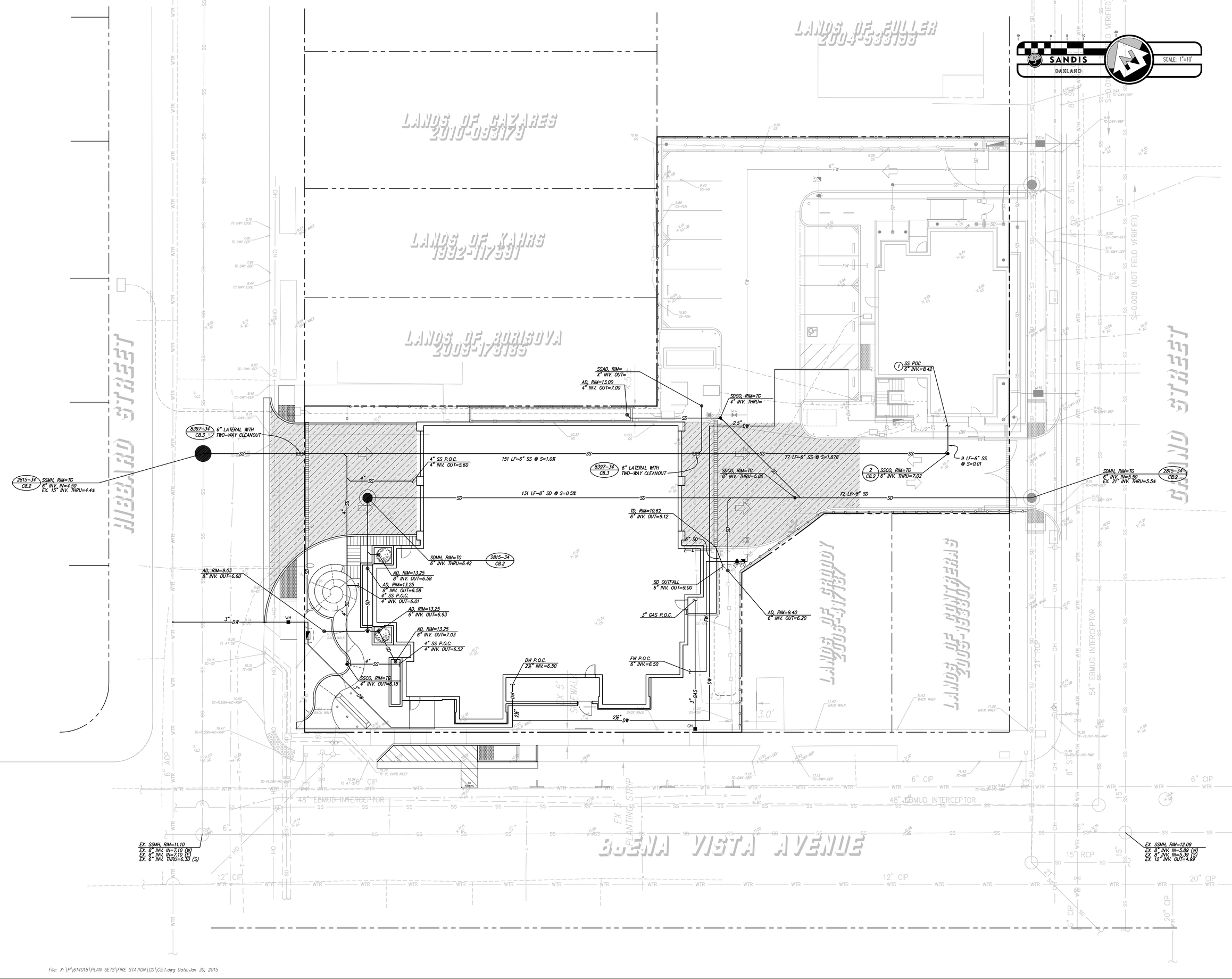
DATE	JANUARY 14, 2015
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BRW PROJECT NUMBER	214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1629 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C4.3

GRADING SECTIONS



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REGISTERED PROFESSIONAL ENGINEER
JEFFREY SETERA
No. 62781
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

LICENSED ARCHITECT
CHRISTOPHER REED KIENKE
C-17552
Exp. 8/31/15
STATE OF CALIFORNIA

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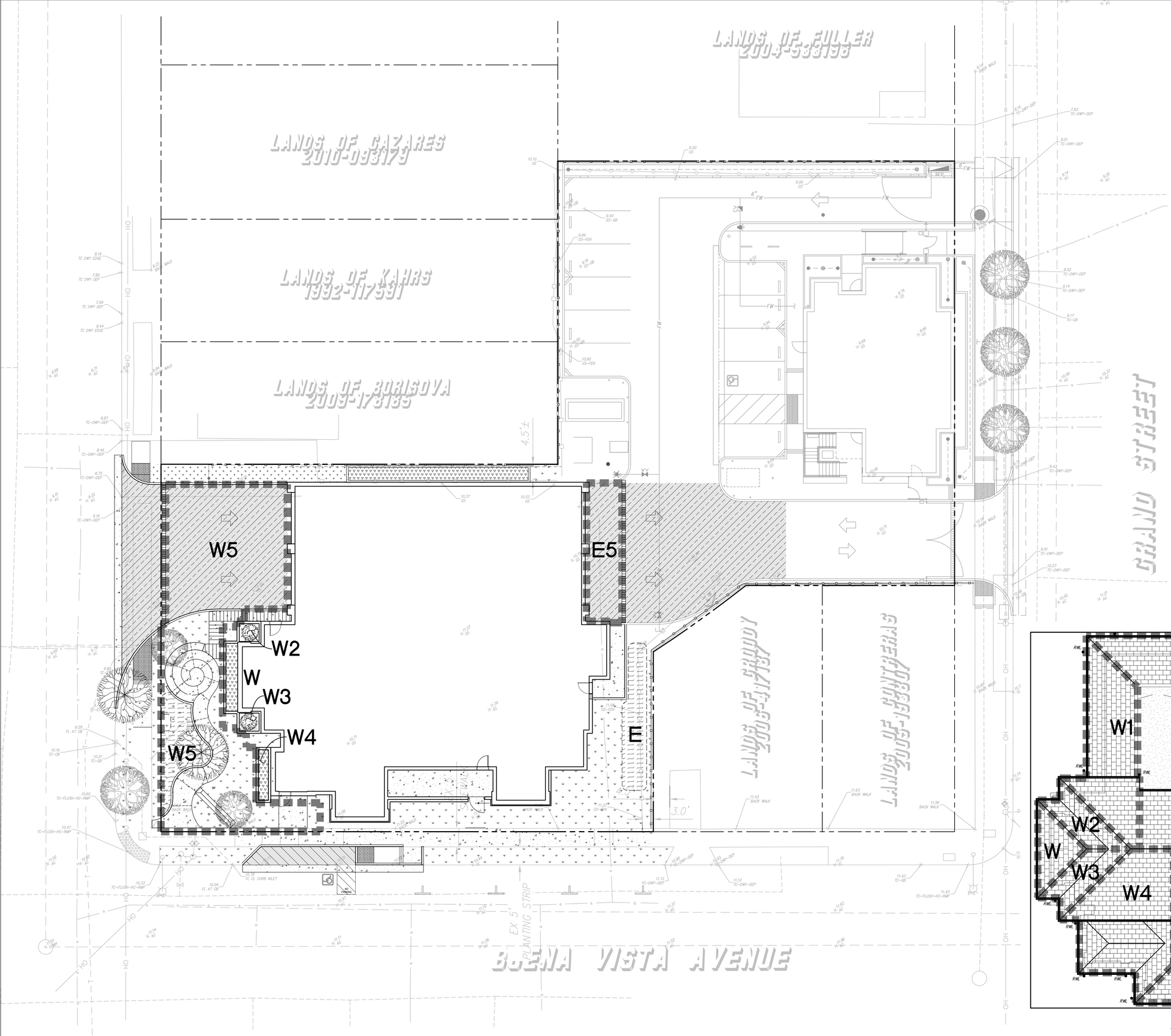
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ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

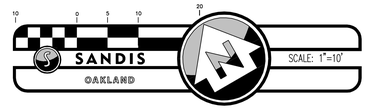
No.	Description	Date

C5.1

UTILITY PLAN

File: X:\P\614018\PLAN SETS\FIRE STATION\CD\C5.1.dwg Date:Jan 30, 2015





DRAINAGE MANAGEMENT AREA (DMA)	HARDSCAPE / ROOF AREA (sf)	REQUIRED TREATMENT AREA (sf)	TREATMENT AREA PROVIDED (sf)
E	1,140	46	240
E1	475	19	E
N	3,550	142	144
S1	385	16	E
S2	915	137	E
W	175	7	58
W1	675	27	W5
W2	175	7	26
W3	175	7	26
W4	810	33	40
W5	2,535	101	219
E5	365	15	E

LEGEND

BIO-RETENTION

PLANTING, S.L.D.

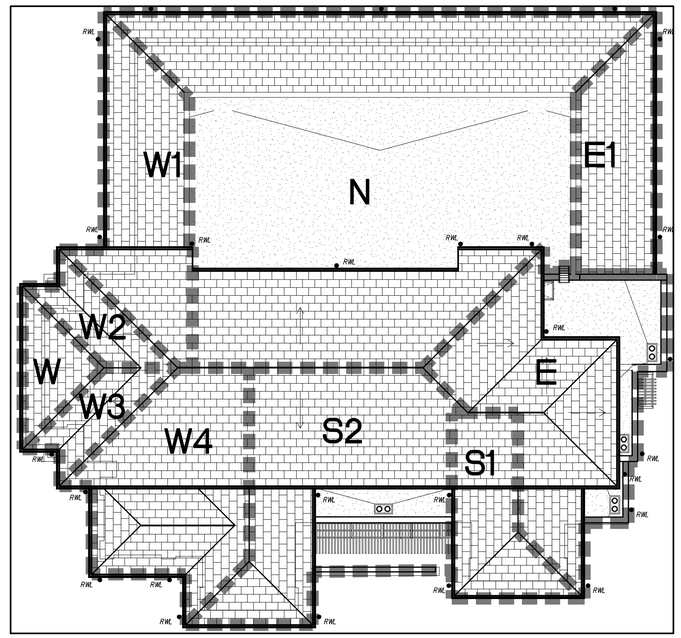
FLOW-THRU PLANTER (FTP). SEE SHEET C6.1.

DMA X — DRAINAGE MANAGEMENT AREA (DMA)

FTP X — FLOW-THRU PLANTER THAT DMA DRAINS TO.

RWL DOWNSPOUT FOR ROOF DMA

ROUTE OF RWL PIPING THROUGH BUILDING (DIAGRAMATIC). SEE MEP PLANS FOR ACTUAL ROUTING.



ROOF ENLARGEMENT
SCALE: 1"=10'

REGISTERED LANDSCAPE ARCHITECT
STEPHEN HOWARD FONG
No. C-17552
STATE OF CALIFORNIA

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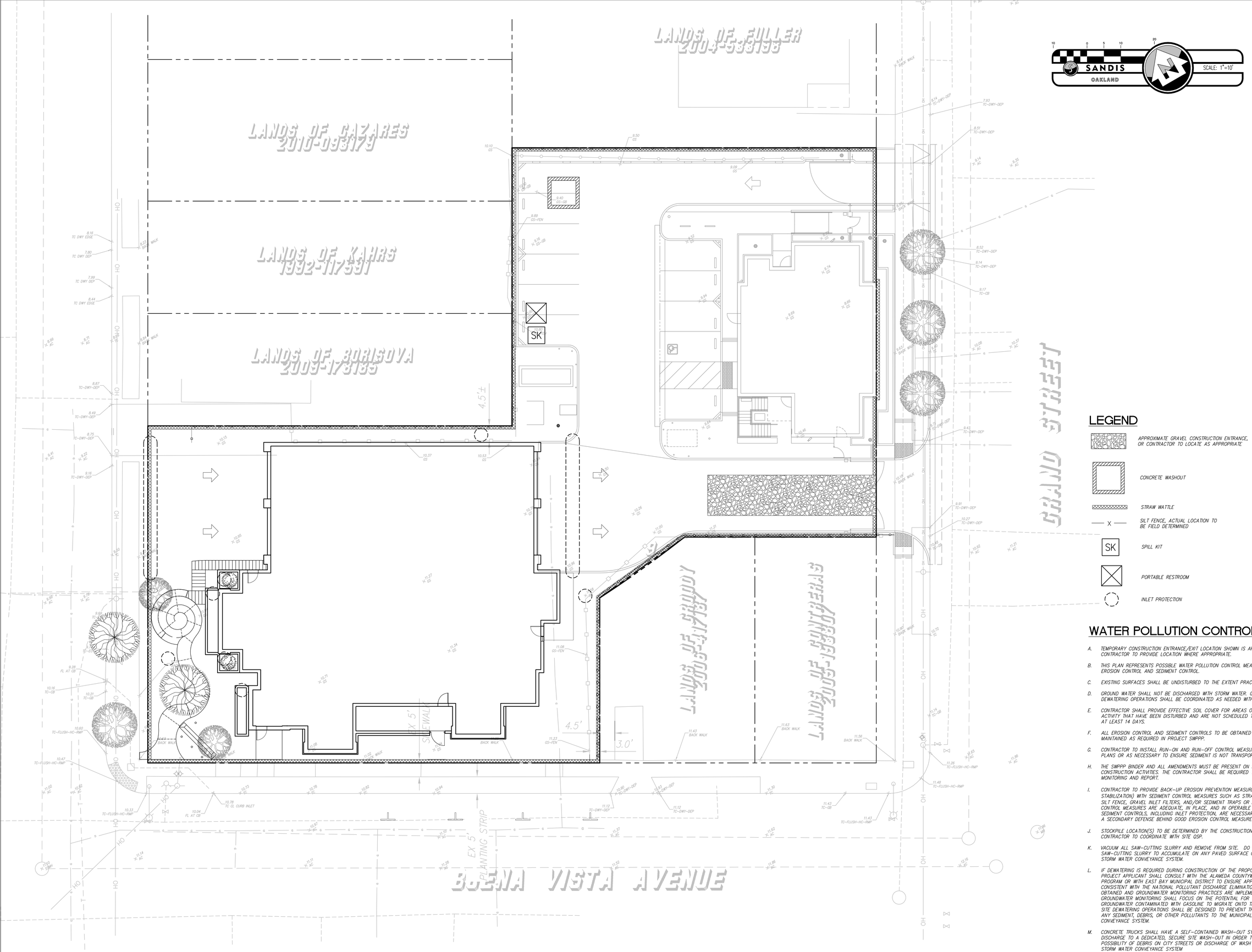
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 0231114
1629 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C6.1

STORMWATER MANAGEMENT PLAN

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WATER POLLUTION CONTROL NOTES:

A. TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.

B. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.

C. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.

D. GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.

E. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.

F. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED IN PROJECT SWPPP.

G. CONTRACTOR TO INSTALL RUN-ON AND RUN-OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.

H. THE SWPPP BINDER AND ALL AMENDMENTS MUST BE PRESENT ON SITE DURING ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE REQUIRED TO CONDUCT ALL MONITORING AND REPORT.

I. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.

J. STOCKPILE LOCATION(S) TO BE DETERMINED BY THE CONSTRUCTION SCHEDULE. CONTRACTOR TO COORDINATE WITH SITE QSP.

K. VACUUM ALL SAW-CUTTING SLURRY AND REMOVE FROM SITE. DO NOT ALLOW SAW-CUTTING SLURRY TO ACCUMULATE ON ANY PAVED SURFACE OR ENTER THE STORM WATER CONVEYANCE SYSTEM.

L. IF DEWATERING IS REQUIRED DURING CONSTRUCTION OF THE PROPOSED PROJECT, THE PROJECT APPLICANT SHALL CONSULT WITH THE ALAMEDA COUNTYWIDE CLEAN WATER PROGRAM OR WITH EAST BAY MUNICIPAL DISTRICT TO ENSURE APPROPRIATE PERMITS CONSISTENT WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM ARE OBTAINED AND GROUNDWATER MONITORING PRACTICES ARE IMPLEMENTED. GROUNDWATER MONITORING SHALL FOCUS ON THE POTENTIAL FOR OFFSITE GROUNDWATER CONTAMINATED WITH GASOLINE TO MIGRATE ONTO THE PROJECT SITE. SITE DEWATERING OPERATIONS SHALL BE DESIGNED TO PREVENT THE DISCHARGE OF ANY SEDIMENT, DEBRIS, OR OTHER POLLUTANTS TO THE MUNICIPAL STORM WATER CONVEYANCE SYSTEM.

M. CONCRETE TRUCKS SHALL HAVE A SELF-CONTAINED WASH-OUT SYSTEM OR DISCHARGE TO A DEDICATED, SECURE SITE WASH-OUT IN ORDER TO AVOID THE POSSIBILITY OF DEBRIS ON CITY STREETS OR DISCHARGE OF WASH WATER TO THE STORM WATER CONVEYANCE SYSTEM

File: X:\P\614018\PLAN SETS\FIRE STATION\CD\C7.1.dwg Date:Jan 30, 2015

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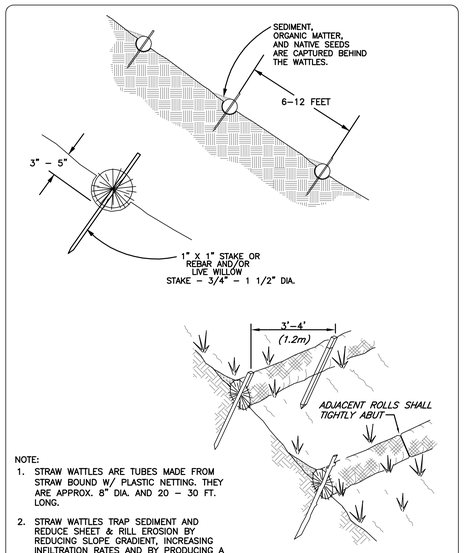
DATE	JANUARY 14, 2015
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CHECKED BY	HP
BRW PROJECT NUMBER	214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C7.1

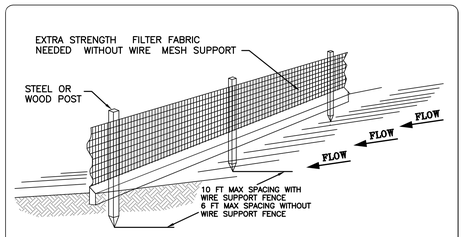
EROSION CONTROL PLAN

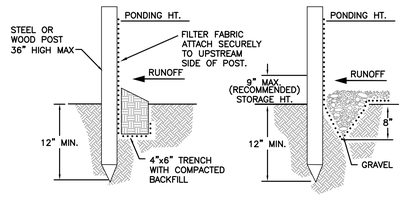


NOTE:
1. STRAW WATTLES ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING. THEY ARE APPROX. 8" DIA. AND 20 – 30 FT. LONG.
2. STRAW WATTLES TRAP SEDIMENT AND REDUCE SHEET & RILL EROSION BY REDUCING SLOPE GRADIENT, INCREASING INFILTRATION RATES AND BY PRODUCING A FAVORABLE ENVIRONMENT FOR PLANT ESTABLISHMENT.
3. STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3" – 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND WATTLE.

STRAW WATTLES

© 1994 JOHN McCULLAH





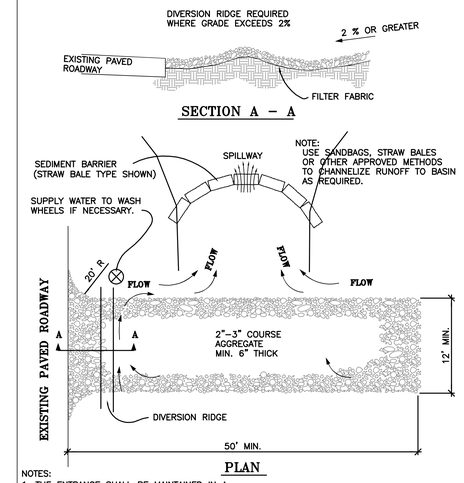
STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTE:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF–SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE

© 1994 JOHN McCULLAH

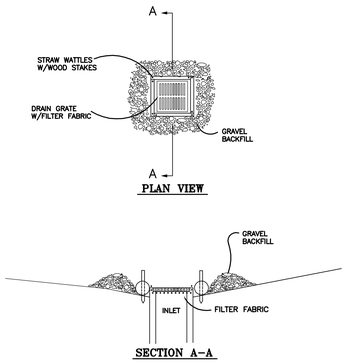


PLAN

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

© 1994 JOHN McCULLAH



NOTE:
1. SE DETAIL X FOR STRAW WATTLE INFORMATION.
2. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT FROM THE TRAVELED WAY IMMEDIATELY.

DETAIL X

INLET PROTECTION

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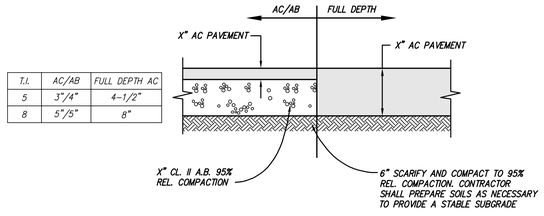
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CITY OF ALAMEDA
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1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

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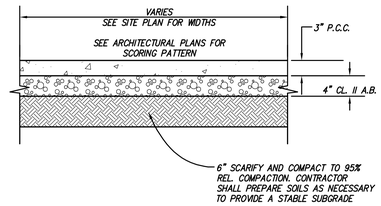
C7.2

EROSION CONTROL DETAILS

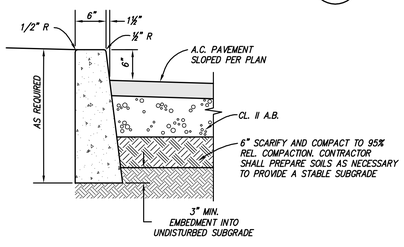


T.I.	AC/AB	FULL DEPTH AC
5	3"/4"	4-1/2"
8	5"/5"	8"

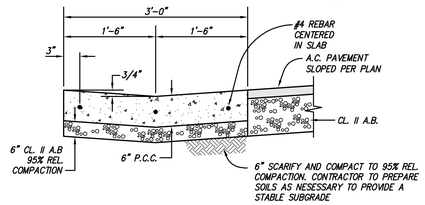
ASPHALT PAVEMENT SECTION 1
N.T.S.



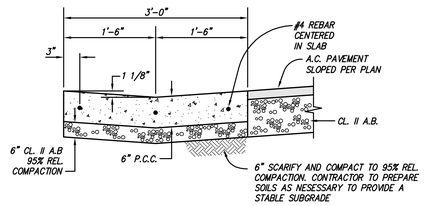
PEDESTRIAN CONCRETE SECTION 2
N.T.S.



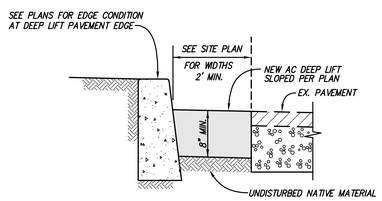
6" VERTICAL CURB 3
N.T.S.



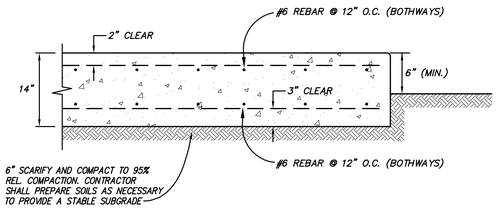
3' ADA VALLEY GUTTER 4
N.T.S.



3' VALLEY GUTTER 5
N.T.S.

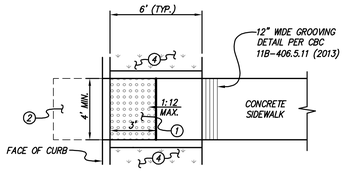


AC DEEP LIFT 6
N.T.S.



TYPICAL PAD DETAIL 7
N.T.S.

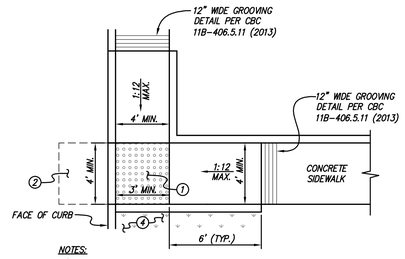
NOT USED 8
N.T.S.



NOTES:

1. BLACK DETECTABLE WARNING SURFACE (TRUNCATED DOMES), AS REQUIRED, PER CBC 11B-705. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE FLUSH CURB IS 6 INCHES MIN. AND 8 INCHES MAX. FROM THE EDGE OF THE STREET OR GUTTER.
2. COUNTER SLOPE AT BOTTOM OF RAMP SHALL NOT EXCEED 5% WITHIN 24 INCHES OF THE BOTTOM OF THE RAMP.
3. DIMENSIONS LABELED TYP. ARE THE TYPICAL DIMENSIONS USED TO ACHIEVE ADA COMPLIANCE. THESE DIMENSIONS MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND DESIGN INTENT. DIMENSIONS LABELED MIN. OR MAX. ARE THE DIMENSIONS FOR CODE COMPLIANCE.
4. LANDSCAPE AREA ADJACENT TO RAMP. SEE LANDSCAPE PLANS.

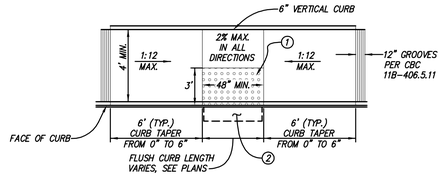
IN-LINE ACCESSIBLE RAMP 9
N.T.S.



NOTES:

1. BLACK DETECTABLE WARNING SURFACE (TRUNCATED DOMES), AS REQUIRED, PER CBC 11B-705. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE FLUSH CURB IS 6 INCHES MIN. AND 8 INCHES MAX. FROM THE EDGE OF THE STREET OR GUTTER.
2. COUNTER SLOPE AT BOTTOM OF RAMP SHALL NOT EXCEED 5% WITHIN 24 INCHES OF THE BOTTOM OF THE RAMP.
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4. LANDSCAPE AREA ADJACENT TO RAMP. SEE LANDSCAPE PLANS.

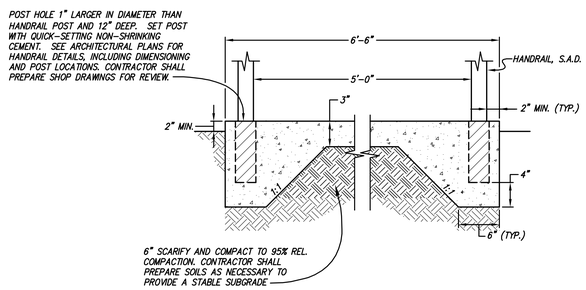
90° DUAL IN-LINE ACCESSIBLE RAMP 10
N.T.S.



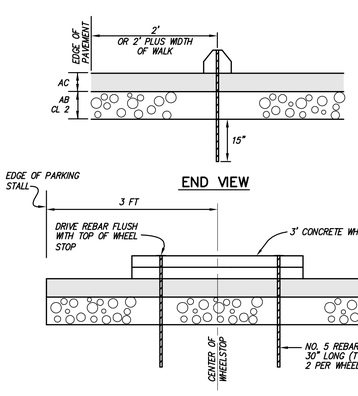
NOTES:

1. BLACK DETECTABLE WARNING SURFACE (TRUNCATED DOMES), AS REQUIRED PER CBC 11B-705, SHALL EXTEND TO FACE OF CURB.
2. COUNTER SLOPE AT BOTTOM OF RAMP SHALL NOT EXCEED 5% WITHIN 24 INCHES OF THE BOTTOM OF THE RAMP.
3. DIMENSIONS LABELED TYP. ARE THE TYPICAL DIMENSIONS USED TO ACHIEVE ADA COMPLIANCE. THESE DIMENSIONS MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND DESIGN INTENT. DIMENSIONS LABELED MIN. OR MAX. ARE THE DIMENSIONS FOR CODE COMPLIANCE.

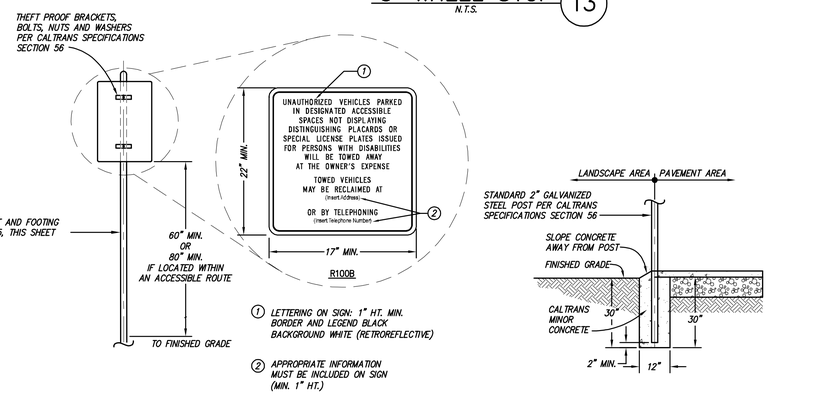
DUAL IN-LINE ACCESSIBLE RAMP (CBC 2013) 11
N.T.S.



ACCESSIBLE RAMP SECTION 12
N.T.S.



3' WHEEL STOP 13
N.T.S.



TOW AWAY SIGN DETAIL 14
N.T.S.

SIGN FOOTING DETAIL 15
N.T.S.

NOT FOR CONSTRUCTION

LICENSED ARCHITECT REGISTERED PROFESSIONAL ENGINEER C-17552 STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER MICHAEL SETERA NO. 62781 Civil CALIFORNIA

SANDIS CIVIL ENGINEERS LAND SURVEYORS PLANNERS
SUNNYVALE ROSEVILLE OAKLAND

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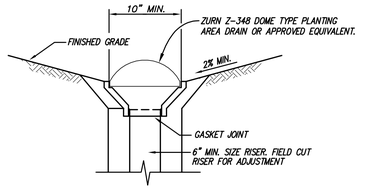
DATE	JANUARY 14, 2015
DRAWN BY	IRR / RAB
CHECKED BY	HP
BRW PROJECT NUMBER	214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

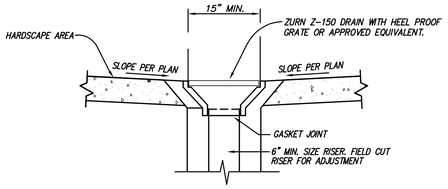
No.	Description	Date

C8.1

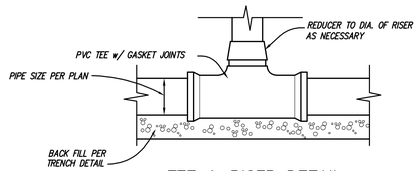
CONSTRUCTION DETAILS



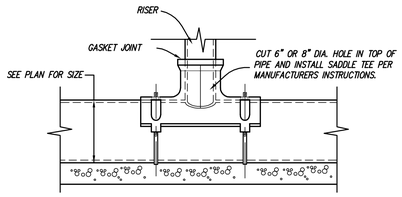
LANDSCAPE
GRATE & RISER DETAIL



HARDSCAPE
GRATE & RISER DETAIL

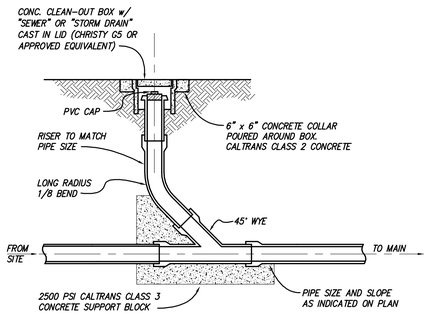


TEE & RISER DETAIL

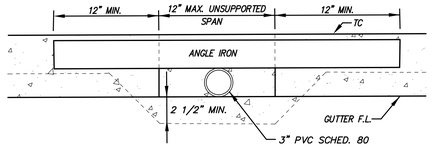


SADDLE & RISER DETAIL

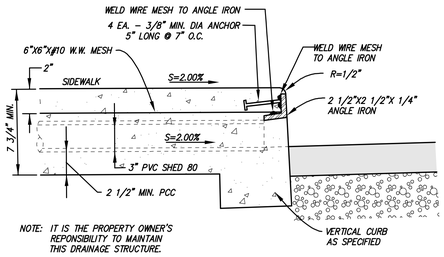
AREA DRAIN
N.T.S. 1



CLEANOUT WITH LATERAL STUB
N.T.S. 2



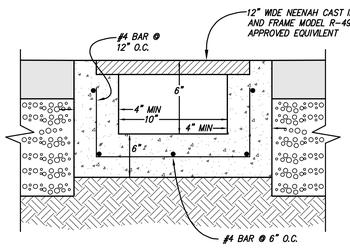
ELEVATION AT FACE OF CURB



NOTE: IT IS THE PROPERTY OWNER'S REPONSIBILITY TO MAINTAIN THIS DRAINAGE STRUCTURE.

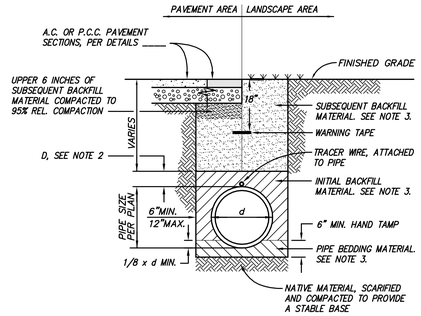
SECTION VIEW

"THRU CURB" DRAIN
N.T.S. 3



NOTES:
1. NEENAH MODEL R-4999 CX FRATE AND GRATE OR APPROVED EQUIVALENT.
2. CONCRETE SHALL BE CALTRANS MINOR CONCRETE WITH A 28 DAY STRENGTH OF 3,000 PSI. THE CONCRETE SHALL BE VIBRATED TO ELIMINATE AIR POCKETS.
3. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
4. IF DEPTH FROM RIM TO BOTTOM OF TRENCH DRAIN IS GRATER THAN 9", WIDTH OF TRENCH DRAIN SIDE WALLS SHALL BE 6".

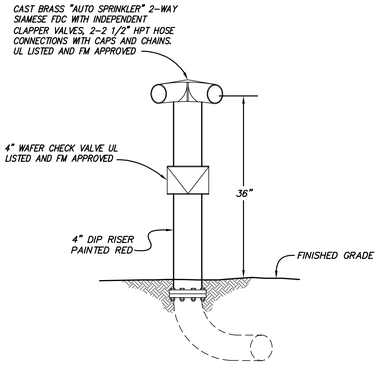
TRENCH DRAIN DETAIL
N.T.S. 4



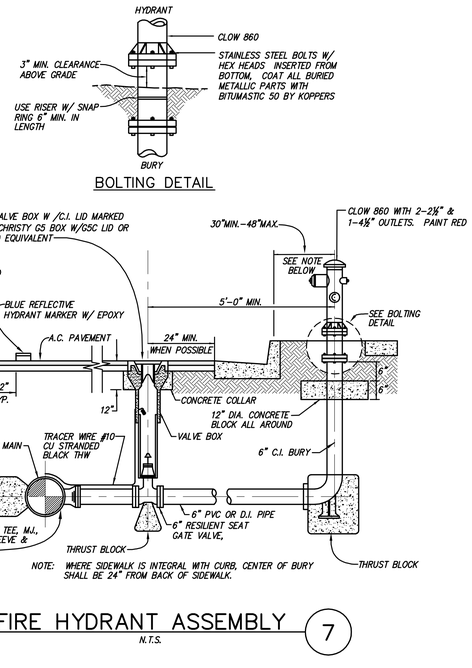
NOTE:
1. PLACE CUT OFF PLUG OF IMPERMEABLE MATERIAL WHERE ALL TRENCHES ENTER A PAVEMENT AREA.
2. D=6" MIN. FOR PIPE SIZES ≤ 12 INCHES
   D=12" MIN. FOR PIPE SIZES > 12 INCHES
3. COMPACT BACKFILL AND BEDDING MATERIALS TO THE FOLLOWING PERCENT RELATIVE COMPACTION:

COMPACTION REQUIREMENTS					
	TRENCH SAND	TRENCH GRAVEL	APPROVED NATIVE	IMPORTED FILL	CLASS II AGGREGATE BASE
SUBSEQUENT BACKFILL MATERIAL (UNDER PAVEMENT)	N/A	N/A	95%	95%	95%
SUBSEQUENT BACKFILL MATERIAL (IN LANDSCAPE)	N/A	N/A	90%	90%	90%
INITIAL BACKFILL MATERIAL	90%	90%	N/A	N/A	N/A
BEDDING MATERIAL	90%	90%	N/A	N/A	N/A

TRENCH DETAIL
N.T.S. 5

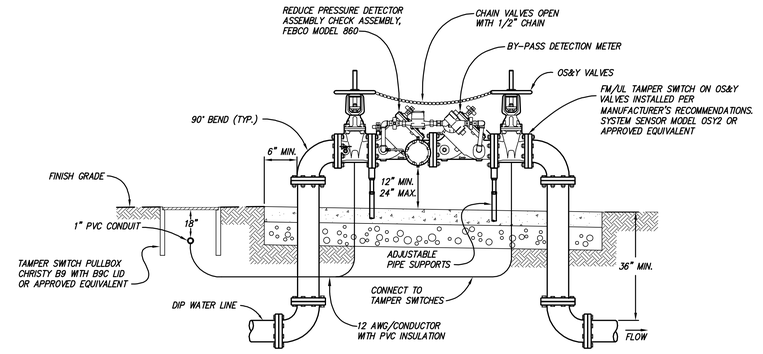


FIRE DEPARTMENT CONNECTION
N.T.S. 6

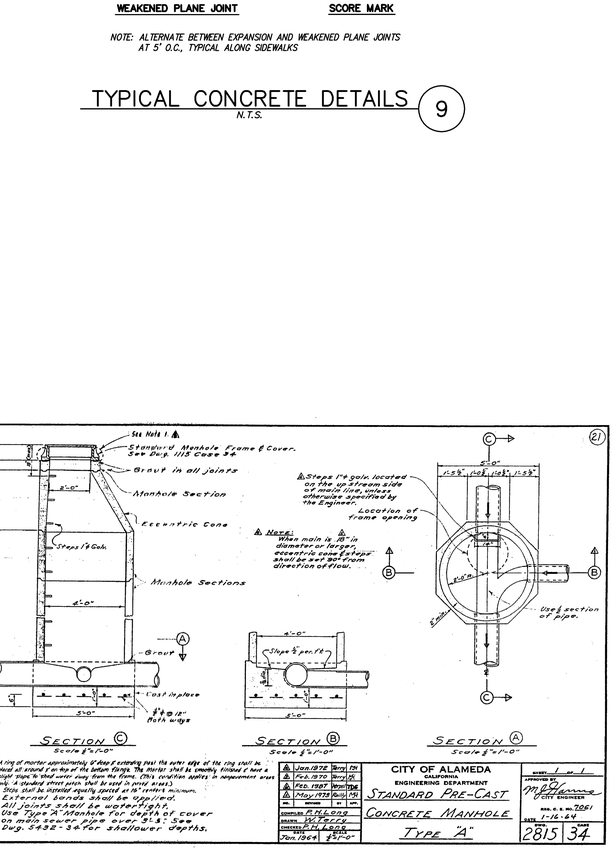


NOTE: WHERE SIDEWALK IS INTEGRAL WITH CURB, CENTER OF BURY SHALL BE 24" FROM BACK OF SIDEWALK.

FIRE HYDRANT ASSEMBLY
N.T.S. 7



FIRE SERVICE BACKFLOW PREVENTOR
N.T.S. 8



NOTE: ALTERNATE BETWEEN EXPANSION AND WEAKENED PLANE JOINTS AT 5' O.C., TYPICAL ALONG SIDEWALKS

TYPICAL CONCRETE DETAILS
N.T.S. 9

LICENSED ARCHITECT RENEWAL 2016 C-17552 STATE OF CALIFORNIA

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1620 MONTGOMERY
SUITE 320
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415.749.2670
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PROFESSIONAL ENGINEER JEFFREY MICHAEL SETERA NO. 63731 Civil 6/30/16 STATE OF CALIFORNIA

SANDIS CIVIL ENGINEERS LAND SURVEYORS PLANNERS
SURVEYVALE ROSEVILLE OAKLAND

NOT FOR CONSTRUCTION

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DATE	JANUARY 14, 2015
DRAWN BY	RRR/RAB
CHECKED BY	HP
BRW PROJECT NUMBER	2114013.00

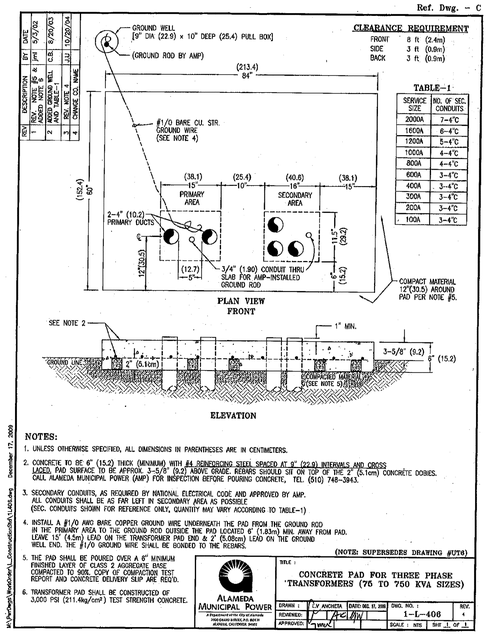
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C8.2

CONSTRUCTION DETAILS

Ref. Dwg. – C



TABLE–1	
SERVICE SIZE	NO. OF SEC. CONDUITS
2000A	7–4"C
1600A	8–4"C
1200A	5–4"C
1000A	4–4"C
800A	4–4"C
600A	3–4"C
400A	3–4"C
300A	3–4"C
200A	3–4"C
100A	3–4"C

REV	DESCRIPTION	BY	DATE
1	REV. NOTE 6 & ADD NOTE 8	JHT	5/7/02
2	ADD'D GROUND WELL	CJS	8/29/03
3	REV. NOTE 7	JJJ	10/20/04
4	CHANGE CO. NAME		

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS IN PARENTHESES ARE IN CENTIMETERS.
2. CONCRETE TO BE 6" (15.2) THICK (MINIMUM) WITH #4 REINFORCING STEEL SPACED AT 8" (22.9) INTERVALS AND CROSS LACED. PAD SURFACE TO BE APPROX. 3–5/8" (9.2) ABOVE GRADE. REBARS SHOULD SIT ON TOP OF THE 2" (5.1cm) CONCRETE DOBIES. CALL ALAMEDA MUNICIPAL POWER (AMP) FOR INSPECTION BEFORE POURING CONCRETE, TEL. (510) 748–3943.
3. SECONDARY CONDUITS, AS REQUIRED BY NATIONAL ELECTRICAL CODE AND APPROVED BY AMP. ALL CONDUITS SHALL BE 4C FOR LEFT IN SECONDARY AREA AS POSSIBLE (SEC. CONDUITS SHOWN FOR REFERENCE ONLY, QUANTITY MAY VARY ACCORDING TO TABLE–1)
4. INSTALL A #1/0 AWG BARE COPPER GROUND WIRE UNDERNEATH THE PAD FROM THE GROUND ROD IN THE PRIMARY AREA TO THE GROUND ROD OUTSIDE THE PAD LOCATED 6' (1.83m) MIN. AWAY FROM PAD. LEAVE 15' (4.5m) LEAD ON THE TRANSFORMER PAD END & 2' (5.08m) LEAD ON THE GROUND WELL END. THE #1/0 GROUND WIRE SHALL BE BONDED TO THE REBARS.
5. THE PAD SHALL BE POURED OVER A 6" MINIMUM FINISHED LAYER OF CLASS 2 AGGREGATE BASE COMPACTED TO 90% COPY OF COMPACTION TEST REPORT AND CONCRETE DELIVERY SLIP ARE REQ'D.
6. TRANSFORMER PAD SHALL BE CONSTRUCTED OF 3,000 PSI (211.4kg/cm²) TEST STRENGTH CONCRETE.

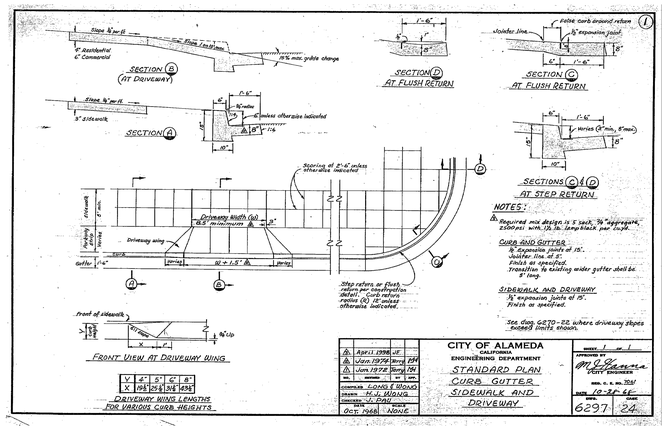
(NOTE: SUPERSEDES DRAWING #UT0)

ALAMEDA MUNICIPAL POWER
A DEPARTMENT OF THE CITY OF ALAMEDA
PRESIDENT JAMES M. ASTI
ALAMEDA, CALIFORNIA 94501

TITLE: CONCRETE PAD FOR THREE PHASE TRANSFORMERS (75 TO 750 KVA SIZES)

DRAWN: J.V. ANCHETA	DATE: DEC. 17, 2000	DWG. NO.: 1–1–406	REV. 4
REVIEWED:			
APPROVED:		SCALE: NTS	SHT. 1 OF 1

W:\Portrait\Word\Set_Construction\1_1_406.dwg December 17, 2000



V	4"	5"	6"	8"
X	9"[23]	8"[20]	6"[15]	4"[10]

NOTES:

1. Required mix design is 5 sack, ¾" aggregate, 2500psi with 12 lb. lamp black per 1yd³.

CURB AND GUTTER
¾" Expansion joints at 15'.
Joiner line at 3'.
Finish as specified.
Transition to existing wider gutter shall be 5' long.

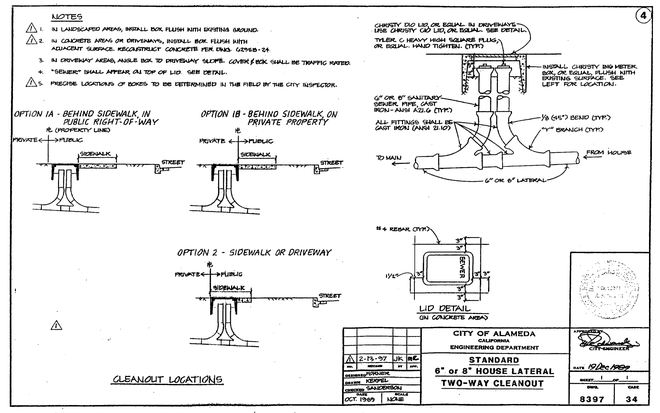
SIDEWALK AND DRIVEWAY
½" expansion joints at 15'.
Finish as specified.

See dwg. G670-22 where driveway slopes exceed limits shown.

1	April 1998	JE
2	June 1976 Reorg 154	
3	June 1972 Reorg 154	
NO.	REVISION	BY APP'D
COMPILED: LONG & BOUG		
DRAWN: H.L. WONG		
CHECKED: M. TAM		
DATE: Oct. 1968	SCALE: None	

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT
STANDARD PLAN
CURB GUTTER
SIDEWALK AND
DRIVEWAY

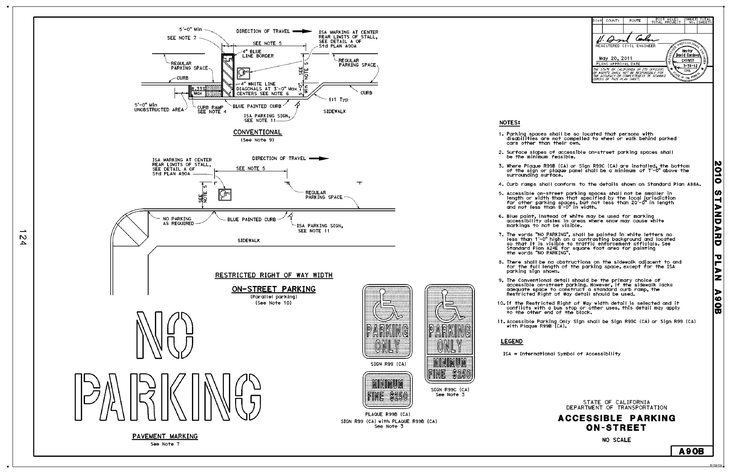
SHEET 1 of 1
APPROVED BY: Matt O'Connor
CITY ENGINEER
RES. OR C. M. NO. 7041
DATE: 12-21-66
DWG. 6297 | CASE 24



1	2-75-97	JJH
NO.	REVISION	BY APP'D
ENGINEERED: APPROVED		
DRAWN: KOSPEL		
CHECKED: SANDERSON	SCALE: NONE	
DATE: OCT. 1969	CASE:	

CITY OF ALAMEDA
CALIFORNIA
ENGINEERING DEPARTMENT
STANDARD
6" or 8" HOUSE LATERAL
TWO-WAY CLEANOUT

APPROVED: Matt O'Connor
CITY ENGINEER
DATE: 10/20/1969
SHEET 1 of 1
DWG. 8397 | CASE 34



NOTES:

1. Parking spaces shall be so located that persons with disabilities are not compelled to wheel or walk behind parked cars other than their own.
2. Surface slopes of accessible on-street parking spaces shall be the minimum feasible.
3. Where Plaque R99B (CA) or Sign R99C (CA) are installed, the bottom of the sign or plaque panel shall be a minimum of 7'-0" above the surface of the sidewalk.
4. Curb ramps shall conform to the details shown on Standard Plan A88A.
5. Accessible on-street parking spaces shall not be smaller in length than 22'-0" or in width than 8'-0". Signs designating location for other parking spaces, but not less than 22'-0" in length and not less than 8'-0" in width.
6. Blue paint, instead of white may be used for marking accessibility aisles in areas where snow may cause white markings to not be visible.
7. The words "NO PARKING", shall be painted in white letters as shown in the figure. Where the curb is painted red, the words shall be kept 1ft in height. In traffic enforcement officials, see Standard Plan A24E for square foot area for painting the words "NO PARKING".
8. There shall be no obstructions in the sidewalk adjacent to and within the 3'-0" width of the parking space, except for the ISA parking sign shown.
9. The Conventional detail should be the primary choice of accessible on-street parking. However, if the sidewalk lacks adequate space to construct a standard curb ramp, the Restricted Right of Way detail should be used.
10. If the Restricted Right of Way width detail is selected and it is impossible to locate the ramp in either area, this detail may apply to the other end of the space.
11. Accessible Parking Only Sign shall be Sign R99C (CA) or Sign R99 (CA) with Plaque R99B (CA).

LEGEND

ISA = International Symbol of Accessibility

1	May 20, 2011	
NO.	REVISION	BY APP'D
APPROVED:		
DRAWN:	CHECKED:	
DATE:	SCALE:	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ACCESSIBLE PARKING
ON-STREET
NO SCALE

A90B

2010 STANDARD PLAN A90B

124

ADA PARKING DETAIL 1
N.T.S.

File: X:\P\614018\PLAN SETS\FIRE STATION\CD\C8.3.dwg Date: Jan 30, 2015

NOT FOR CONSTRUCTION

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LICENSED ARCHITECT
TIMOTHOY REYNOLDS
No. C-17552
STATE OF CALIFORNIA

PROFESSIONAL ENGINEER
RICHARD SETERA
No. 62781
CIVIL
STATE OF CALIFORNIA

SANDIS
CIVIL ENGINEERS
LAND PLANNERS
SURVEYORS
2656 29th Street, Suite 201 Santa Rosa, CA 95405-8739 707.542.1281 www.sandis.net
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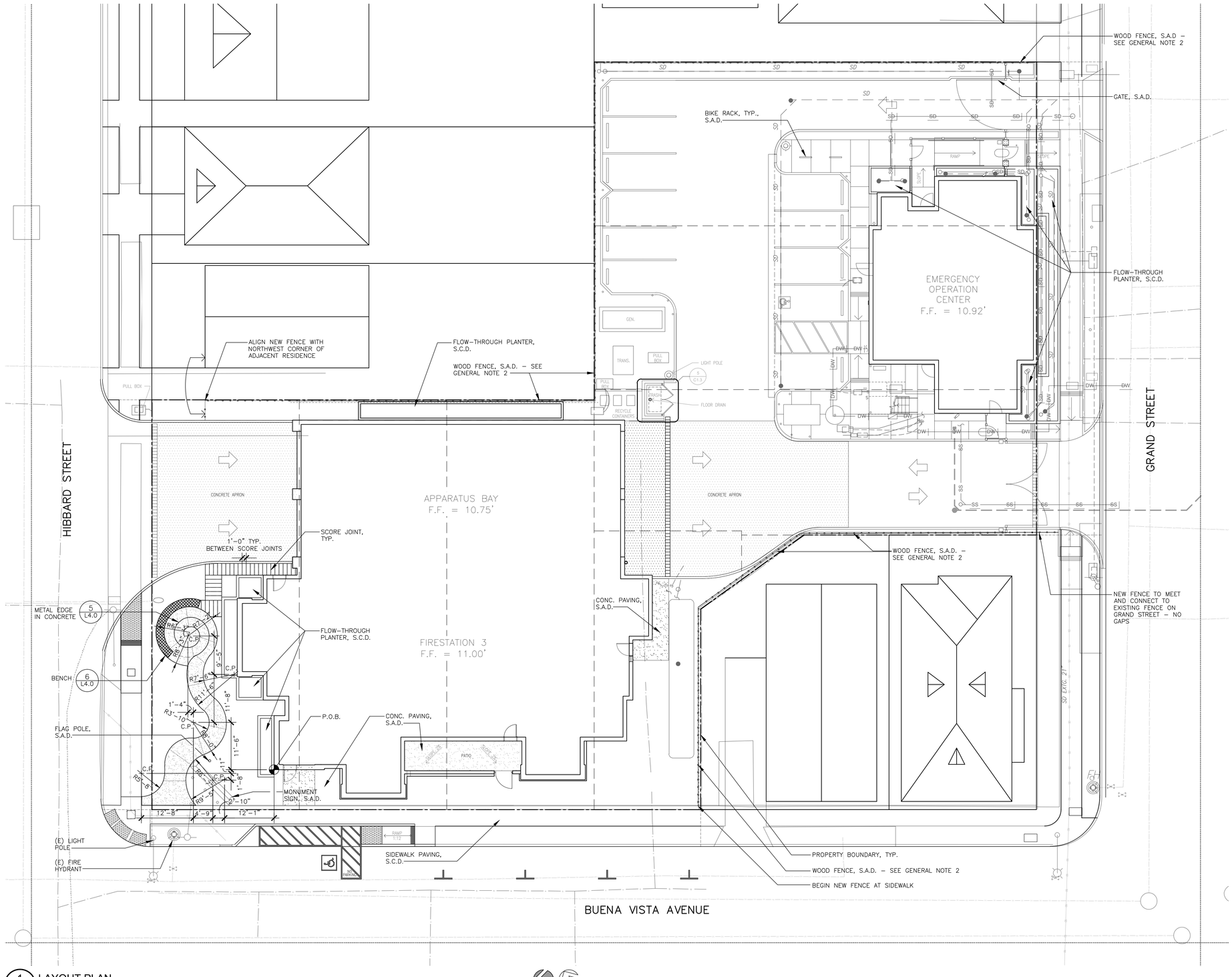
DATE	JANUARY 14, 2015
DRAWN BY	IRR / RAB
CHECKED BY	HP
BRW PROJECT NUMBER	214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

C8.3

CONSTRUCTION DETAILS



1 L1.0 LAYOUT PLAN
SCALE: 1" = 10'

0' 10' 20' 40'
UNITS IN FEET

PLAN TRUE

GENERAL NOTES

1. EXISTING SITE INFORMATION PROVIDED ON SURVEY PLAN. LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY OR LIABILITY FOR COMPLETENESS OR ACCURACY OF PLANS PROVIDED BY OTHERS.
2. VERIFY PROPERTY BOUNDARIES AND LOT LINES PRIOR TO COMMENCEMENT OF WORK. CONSTRUCT FENCES ON PROPERTY LINES. NOTIFY OWNER'S REPRESENTATIVE OF SIGNIFICANT DISCREPANCIES BETWEEN DIMENSIONS OF ACTUAL PROPERTY LINES.
3. 'TYP' OR TYPICAL MEANS THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY NOTED 'TYP' ONLY ONCE WHEN THEY FIRST OCCUR.
4. NOTES AND SYMBOLS ON ONE DRAWING APPLY TO OTHER SIMILAR DETAILS AND CONDITIONS.
5. BECOME ACQUAINTED WITH SUBGRADE UTILITIES, PIPES AND STRUCTURES. SHOULD UTILITIES OR OTHER WORK NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, PROMPTLY NOTIFY OWNER'S REPRESENTATIVE. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR DAMAGE ARISING FROM HIS OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN ON PLANS.
6. COORDINATE WITH SUBCONTRACTORS AS REQUIRED.
7. REPLACE EXISTING MATERIALS DAMAGED DURING CONSTRUCTION.

LAYOUT NOTES

1. DIMENSIONS ARE FROM OUTSIDE FACE OF BUILDING, WALLS, OR CURB UNLESS OTHERWISE NOTED, AND ARE TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION AND MAJOR EXCAVATION. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALING.
2. UNLESS OTHERWISE NOTED, ANGLES ARE TO BE RIGHT ANGLES, ARCS WHICH APPEAR TANGENT AND UNIFORM ARE TO BE TANGENT AND UNIFORM, LINES WHICH APPEAR PARALLEL ARE TO BE PARALLEL, AND ITEMS WHICH APPEAR CENTERED TO BE CENTERED, MAINTAIN LINES TRUE, LEVEL, PLUMB, AND SQUARE.
3. REFER TO GRADING PLANS FOR GRADING AND DRAINAGE STRUCTURES PRIOR TO INSTALLATION OF WALKS, WALLS, FOOTINGS, AND OTHER STRUCTURES.
4. OWNER'S REPRESENTATIVE TO APPROVE LAYOUT IN THE FIELD PRIOR TO CONSTRUCTION. AT TIME OF FIRST SITE VISIT AND BEFORE ANY MAJOR EXCAVATION, THE GENERAL LAYOUT OF SITE ELEMENTS SHOULD BE CONFIRMED. IN A SEPARATE SITE VISIT, OWNER'S REPRESENTATIVE TO CONFIRM LAYOUT OF FORMS.
5. VERIFY THAT CONDUITS AND SLEEVES ARE PLACED PRIOR TO POURING CONCRETE PAVING.
6. LOCATE ELECTRICAL JUNCTION BOXES FOR LIGHTS IN PLANTING AREAS UNLESS SHOWN OTHERWISE. LAYOUT TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO TRENCHING.
7. CAREFULLY REVIEW LANDSCAPE IRRIGATION PLANS AND NOTES TO IDENTIFY LOCATIONS WHERE PIPE, SLEEVES, SANDBED OR CONDUIT MUST BE PLACED PRIOR TO PLACEMENT OF FORMWORK FOR INSTALLATION OF CONCRETE, OTHER PAVING, OR WALLS. COORDINATE WITH OTHER TRADES TO INSTALL IRRIGATION PIPE, SLEEVE, SANDBEDDING, OR CONDUIT. SHOULD CONFLICTS ARISE REVIEW WITH OWNER'S REPRESENTATIVE FOR RESOLUTION.
8. QUANTITIES PROVIDED ARE FOR INFORMATION ONLY, VERIFY QUANTITIES AND NOTIFY OWNER OF DISCREPANCIES.

SYMBOLS & ABBREVIATIONS

℄	CENTERLINE
— · — · —	PROPERTY LINE
2 / L5-1	DETAIL IDENTIFICATION NO. / DRAWING NO. WHERE DETAIL OR SECTION IS LOCATED
C.P.	CENTER POINT
EQ	EQUAL
O.C.	ON CENTER
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
P.O.B.	POINT OF BEGINNING
TYP.	TYPICAL
V.I.F.	VERIFY IN FIELD
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.C.D	SEE CIVIL DRAWINGS
S.S.D.	SEE STRUCTURAL DRAWINGS

LICENSED LANDSCAPE ARCHITECT C-17552 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY
SUITE 320
SAN FRANCISCO, CA 94111
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WWW.BRWARCH.COM

LICENSED LANDSCAPE ARCHITECT
CHRIS PATTILLO PRYOR
No. 5016
Exp. 31, 2016
Renewal 08/16
2/9/2015
STATE OF CALIFORNIA

PGA design
LANDSCAPE ARCHITECTS
44 17th Street
Oakland CA 94612
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DATE FEBRUARY 9, 2015
DRAWN BY KF
CHECKED BY CP
BRW PROJECT NUMBER 2140713.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date
1	DESIGN DEVELOPMENT	12/5/14
2	90% CD	2/9/15

L1.0

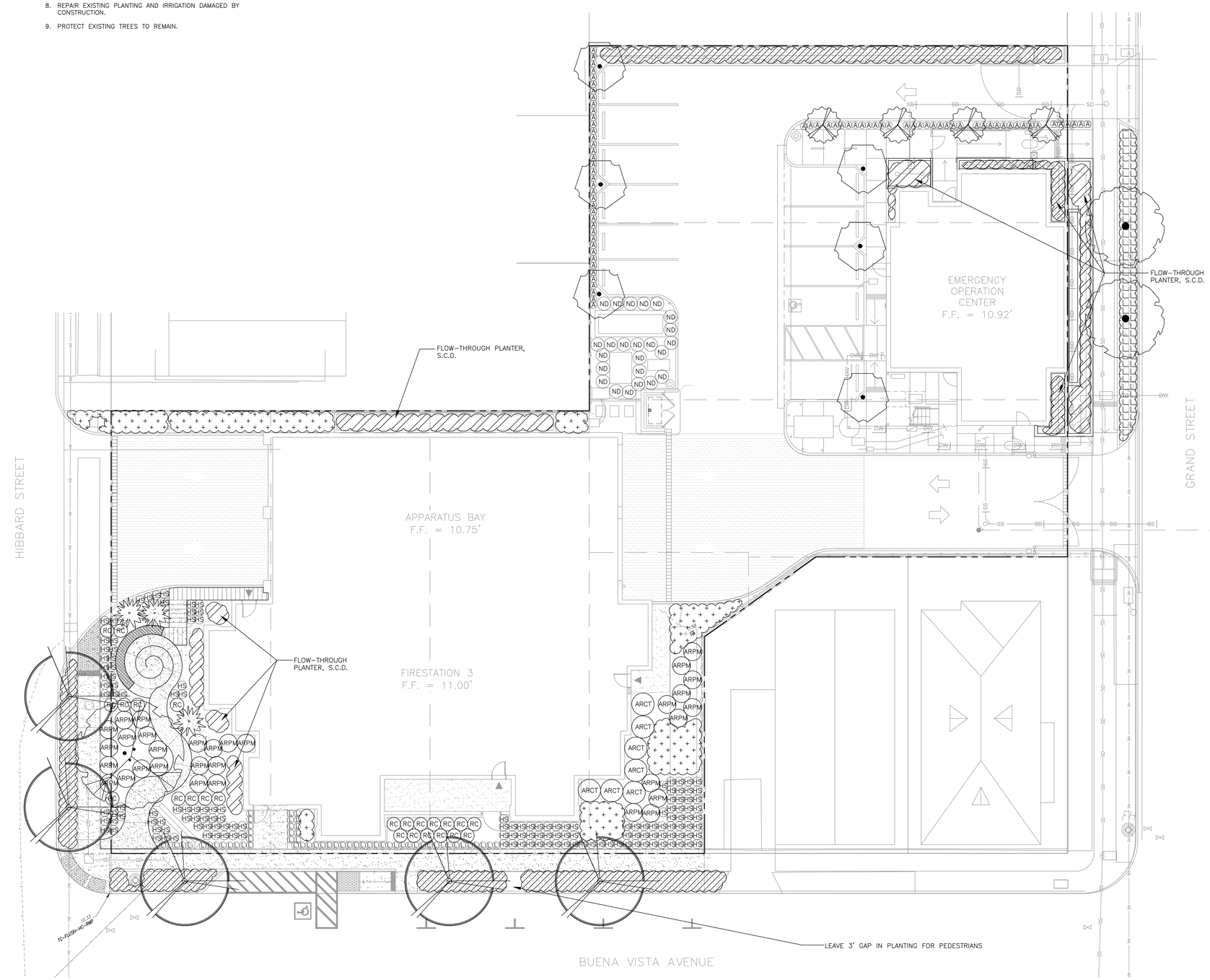
LAYOUT PLAN

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPREAD/ SPACING OR AS SHOWN	WATER USE / WATER REQ REFERENCE	NOTES
TREES						
	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	24" BOX	AS SHOWN	MODERATE WUCOL	
	CARPINUS BETULUS 'FASTIGIATA'	COLUMNAR HORNBEAM	24" BOX	AS SHOWN	MODERATE WUCOL	
	PISTACIA CHINENSIS 'KEITH DAVEY'	KEITH DAVEY PISTACHIO	24" BOX	AS SHOWN	LOW WUCOL	
	PRUNUS CAROLINIANA 'COMPACTA'	COMPACT CAROLINA CHERRY LAUREL	STANDARD FORM, 4' TALL MINIMUM	AS SHOWN	LOW WUCOL	
	QUERCUS AGRIFOLIA	COAST LIVE OAK	60" BOX, MULTI-TRUNK	AS SHOWN	VERY LOW WUCOL	
	ULMUS AMERICANA 'JEFFERSON'	AMERICAN ELM	24" BOX	AS SHOWN	MODERATE WUCOL	
SHRUBS, GROUNDCOVERS AND GRASSES						
(A)	AGAPANTHUS 'PETER PAN'	DWARF LILY OF THE NILE	5 GAL.	AS SHOWN	MODERATE WUCOL	
ARCT	ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN'	HOWARD MCMINN MANZANITA	5 GAL.	60" O.C.	LOW WUCOL	PLANT CENTER OF PLANT NO CLOSER THAN 8" TO EDGE OF PLANTING BED
ARPM	ARCTOSTAPHYLOS 'PACIFIC MIST'	WAYSIDE MANZANITA	5 GAL.	48" O.C.	LOW WUCOL	PLANT CENTER OF PLANT NO CLOSER THAN 8" TO EDGE OF PLANTING BED
	50%/50% MIX OF CONVOLVULUS CNEORUM AND DIETES GRANDIFLORA 'VARIEGATA'	MIX OF BUSH MORNING GLORY AND STRIPED FORTNIGHT LILY	1 GAL. CONVOLVULUS; 5 GAL. DIETES	30" O.C., TRIANGULAR SPACING	LOW WUCOL	PLANT CENTER OF PLANT NO CLOSER THAN 8" TO EDGE OF PLANTING BED
	50%/50% MIX OF FESTUCA IDAHOENSIS AND SISYRINCHIUM BELLUM	MIX OF IDAHO FESCUE AND BLUE-EYED GRASS	1 GAL.	24" O.C., TRIANGULAR SPACING	VERY LOW WUCOL	
HS	HELICTOTRICHON SEMPIRVIRENS	BLUE OAT GRASS	1 GAL.	24" O.C.	LOW WUCOL	PLANT CENTER OF PLANT NO CLOSER THAN 8" TO EDGE OF PLANTING BED
(L)	LAVANDULA AUGUSTIFOLIA 'HIDCOTE'	ENGLISH LAVENDER	1 GAL.	12" O.C.	LOW WUCOL	PLANT CENTER OF PLANT NO CLOSER THAN 8" TO EDGE OF PLANTING BED
	50%/50% MIX OF LEYMUS CONDENSATUS 'CANYON PRINCE' AND NASSELLA PULCHRA	MIX OF CANYON PRINCE WILD RYE AND PURPLE STIPA	1 GAL.	18" O.C., TRIANGULAR SPACING	LOW WUCOL	PLANT CENTER OF PLANT NO CLOSER THAN 8" TO EDGE OF PLANTING BED
ND	NANDINA DOMESTICA 'GULF STREAM'	GULF STREAM HEAVENLY BAMBOO	5 GAL.	24" O.C.	LOW WUCOL	
RC	RHAMNUS CALIFORNICA 'SEAVIEW'	DWARF COFFEEBERRY	5 GAL.	36" O.C.	LOW WUCOL	PLANT CENTER OF PLANT NO CLOSER THAN 8" TO EDGE OF PLANTING BED

PLANTING NOTES

1. VERIFY LOCATION OF SUBSURFACE UTILITIES, PIPES AND STRUCTURES. SHOULD UTILITIES OR OTHER WORK NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, PROMPTLY NOTIFY OWNER'S REPRESENTATIVE. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR DAMAGE ARISING FROM HIS OPERATIONS SUBSEQUENT TO DISCOVERY OF UTILITIES NOT SHOWN ON PLANS.
2. LANDSCAPE CONTRACTOR TO RECEIVE SITE GRADED TO PLUS OR MINUS 0.10 FT PRIOR TO PROJECT EXECUTION.
3. NO PLANT SPECIES SUBSTITUTIONS WILL BE ACCEPTED. CONTRACT GROW PLANTS AS REQUIRED. CONTRACT GROWN PLANTS MUST MEET INDUSTRY STANDARDS FOR SIZE IN ORDER TO BE ACCEPTED.
4. ALL PLANTS AND LAYOUT TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION OF PLANTING HOLES.
5. NOTIFY OWNER'S REPRESENTATIVE 36 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT OBSERVATION MEETINGS.
6. CLEAR AND GRUB ALL AREAS TO RECEIVE NEW PLANTING AND PREPARE SOIL PER SPECIFICATION. SLOPE SOIL AWAY FROM BUILDING AT 2% MINIMUM.
7. SPACE GROUND COVERS TRIANGULARLY IN PLANTING AREAS. GROUND COVER KEY INDICATIONS ARE SHOWN IN LEGEND. HOLD GROUND COVER BACK 18 IN. FROM THE EDGE OF NEW SHRUB PLANTS UNLESS NOTED OTHERWISE. PLANT GROUND COVER WHERE SHRUBS ARE PLANTED 2 1/2 FT. APART OR MORE.
8. REPAIR EXISTING PLANTING AND IRRIGATION DAMAGED BY CONSTRUCTION.
9. PROTECT EXISTING TREES TO REMAIN.



1 L2.0 **PLANTING PLAN**
SCALE: 1" = 10'

0' 10' 20' 40'
UNITS IN FEET
PLAN TRUE

LICENSED LANDSCAPE ARCHITECT
CHRIS PATTILLO PEPS
No. 5206
Renewal: 08/31
09/9/2015
STATE OF CALIFORNIA

BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY
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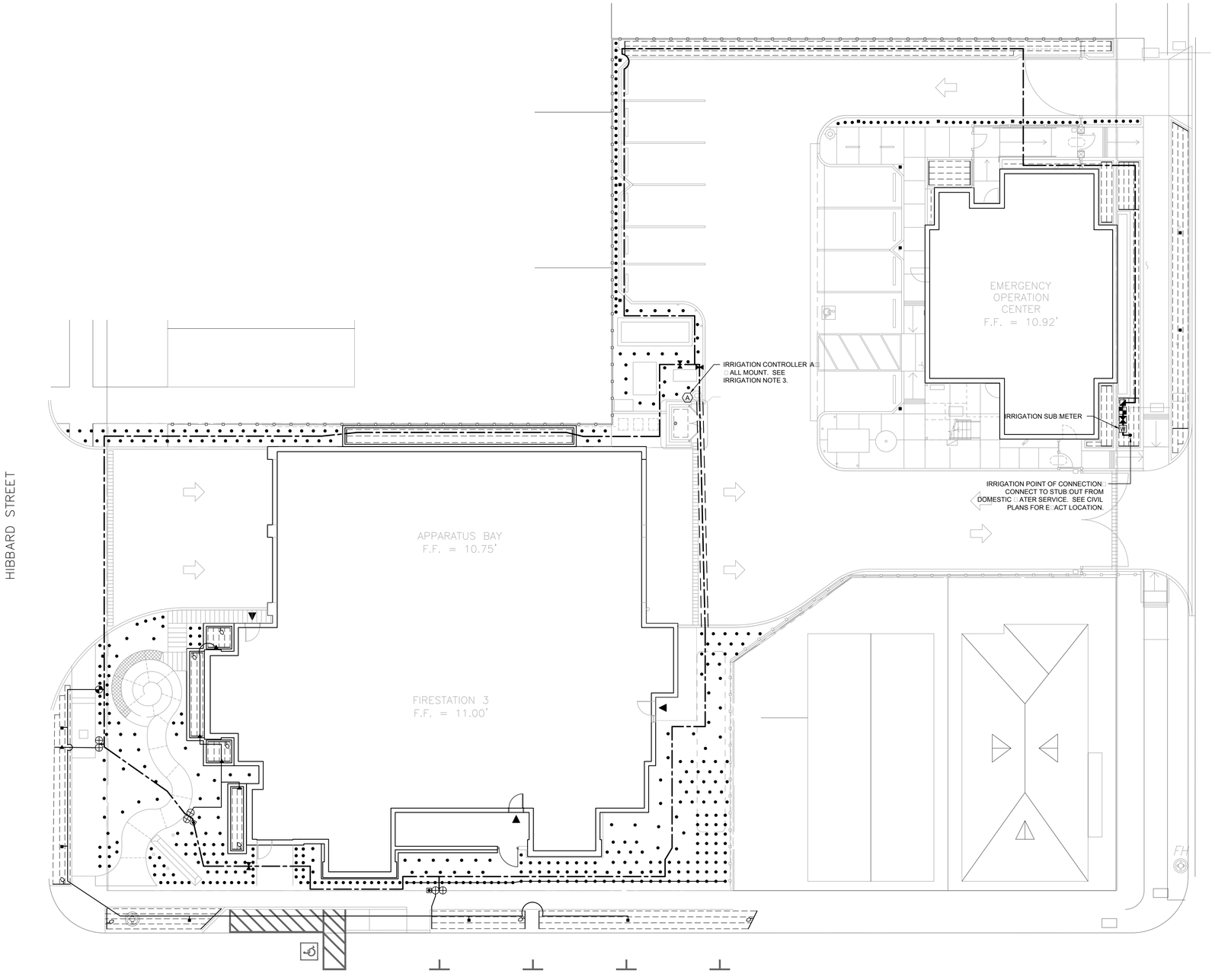
DATE FEBRUARY 9, 2015
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BRW PROJECT NUMBER 214073.00

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PROJECT NO. 02-3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date
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2	90% CD	2/9/15

L2.0

PLANTING PLAN



IRRIGATION LEGEND

SYMBOL	MODEL	DESCRIPTION	PSI	GPM
•	XBT–20	RAIN BIRD PRESSURE COMPENSATING EMITTER INSTALL ON FLEX PVC RISER	30	0.5
■	1402	RAIN BIRD PRESSURE COMPENSATING BUBBLER INSTALL ON FLEX PVC RISER	30	0.5
A	ITS–CAXXXXX	ITS/HUNTER CONTROLLER & CABINET ASSEMBLY – WALL MOUNT		
	WSS–SEN	HUNTER WIRELESS WEATHER SENSOR		
W	XXX	SENSUS WATER METER		
	825YA–1"	FEBCO BACKFLOW PREVENTER		
	T–113–K	NIBCO GATE VALVE – LINE SIZE		
	ICV–101	HUNTER REMOTE CONTROL VALVE		
	ICZ–101	HUNTER DRIP ZONE CONTROL VALVE ASSEMBLY		
	33DNP	RAIN BIRD QUICK COUPLING VALVE		
	CE–FCH	AUTOMATIC DRIP LINE FLUSH VALVE		
	ARV050	RAIN BIRD AIR/VACUUM RELIEF VALVE		
		TRANSITION FROM PVC LATERAL LINE TO SUBSURFACE SUPPLY & EXHAUST HEADERS		

MAINLINE: SCH 40 PVC SOLVENT WELD PIPE WITH SCH 40 PVC SOLVENT WELD FITTINGS–18" COVER. ALL MAINLINE TO BE SIZE 1–1/2" UNLESS OTHEWISE NOTED ON PLAN.

LATERAL LINE, SUBSURFACE SUPPLY AND EXHAUST HEADERS: CLASS 200 PVC SOLVENT WELD PIPE WITH SCH 40 PVC SOLVENT WELD FITTINGS–12" COVER. ALL LATERAL LINE TO BE SIZE 3/4" UNLESS OTHERWISE NOTED ON PLAN.

SLEEVE: SCH 40 PVC, SIZE AS NOTED ON PLAN.

SUBSURFACE IRRIGATION: TORO DL2000 MODEL RGP–212 EMITTER LINE, WITH TORO LOK–EZE FITTINGS. 0.5 GPH EMITTER FLOW, 12" EMITTER SPACING, APPROX. 16" LINE SPACING.

A□1 — CONTROLLER / STATION NUMBER
1" — REMOTE CONTROL VALVE SIZE
20 — APPROXIMATE GPM THROUGH VALVE

1 IRRIGATION PLAN
L2.0 SCALE: 1" = 10'

0' 10' 20' 40'
UNITS IN FEET

PLAN TRUE

LICENSED LANDSCAPE ARCHITECT
CHRIS PATTILLO FRIES
Registered
JAN. 31, 2016
Renewal Date
2/9/2015
STATE OF CALIFORNIA

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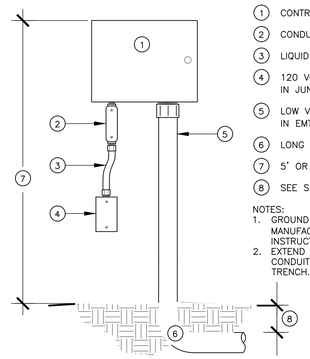
DATE 12/5/14 FEBRUARY 9, 2015
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BRW PROJECT NUMBER 214073.00

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L3.0

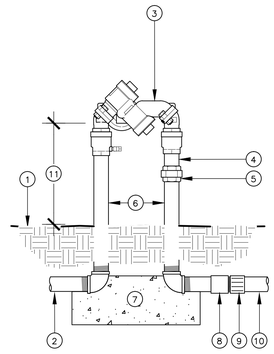
IRRIGATION PLAN



1. CONTROLLER
2. CONDUIT BODY TYPE L
3. LIQUID–TITE CONDUIT
4. 120 VOLT POWER SUPPLY IN JUNCTION BOX
5. LOW VOLTAGE FIELD WIRING IN EMT STEEL CONDUIT
6. LONG CONDUIT SWEEP
7. 5' OR AS DIRECTED
8. SEE SPECIFICATIONS

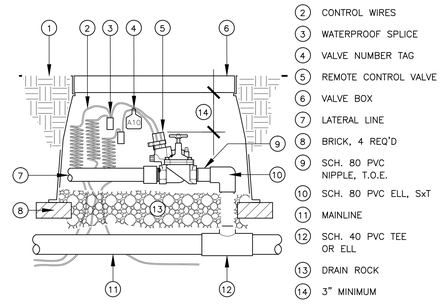
NOTES:
1. GROUND CONTROLLER PER MANUFACTURER'S INSTRUCTIONS.
2. EXTEND FIELD WIRING CONDUIT TO MAINLINE TRENCH.

1 CONTROLLER □OUTDOOR □ ALL MOUNT
SCALE: NTS



1. FINISH GRADE
2. FROM WATER METER OR P.O.C.
3. BACKFLOW PREVENTER
4. 4" PIPE NIPPLE
5. UNION
6. PIPE NIPPLES–– LENGTH AS REQ'D.
7. CONCRETE THRUST BLOCK
8. THREADED COUPLING
9. PVC MALE ADAPTER
10. PVC MAINLINE
11. 12" MINIMUM

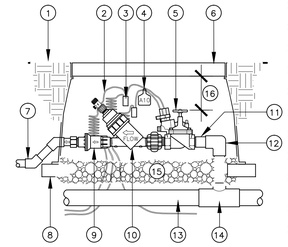
2 BACKFLO□ PREVENTER
SCALE: NTS



1. FINISH GRADE
2. CONTROL WIRES
3. WATERPROOF SPLICE
4. VALVE NUMBER TAG
5. REMOTE CONTROL VALVE
6. VALVE BOX
7. LATERAL LINE
8. BRICK, 4 REQ'D
9. SCH. 80 PVC NIPPLE, T.O.E.
10. SCH. 80 PVC ELL, SxT
11. MAINLINE
12. SCH. 40 PVC TEE OR ELL
13. DRAIN ROCK
14. 3" MINIMUM

NOTE: WRAP FILTER FABRIC AROUND AND UNDER VALVE BOX PRIOR TO INSTALLATION OF DRAIN ROCK.

3 REMOTE CONTROL VALVE
SCALE: NTS



1. FINISH GRADE
2. CONTROL WIRES
3. WATERPROOF SPLICE
4. VALVE NUMBER TAG
5. REMOTE CONTROL VALVE
6. VALVE BOX
7. LATERAL LINE
8. BRICK, 4 REQ'D
9. PRESSURE REGULATOR
10. FILTER
11. SCH. 80 PVC NIPPLE, T.O.E.
12. SCH. 80 PVC ELL, SxT
13. MAINLINE
14. SCH. 40 PVC TEE OR ELL
15. DRAIN ROCK
16. 3" MINIMUM

NOTE: WRAP FILTER FABRIC AROUND AND UNDER VALVE BOX PRIOR TO INSTALLATION OF DRAIN ROCK.

4 DRIP □ONE REMOTE CONTROL VALVE
SCALE: NTS

1. VALVE BOX
2. FINISH GRADE
3. MAIN LINE
4. FILL BOTTOM OF BOX WITH 3" DEPTH DRAIN ROCK
5. MALE ADAPTERS
6. GATE VALVE
7. BRICK, 2 REQ'D.

5 GATE VALVE
SCALE: NTS

1. FINISH GRADE
2. QUICK COUPLER
3. PAVEMENT OR ADJACENT VALVE BOX
4. SCH. 80 PVC NIPPLE 4" LONG
5. SCH. 80 90° ELL, TxT, 3 REQ'D.
6. SCH. 80 PVC NIPPLE, LENGTH AS REQUIRED
7. 3" SCH. 80 PVC NIPPLE, 2 REQ'D.
8. FEMALE ADAPTER OR SxT ELL
9. MAINLINE

6 □UICK COUPLING VALVE
SCALE: NTS

1. FINISH GRADE WITH MULCH COVER
2. BUBBLER
3. WIRE STAPLE INTO ROOTBALL
4. ROOTBALL
5. LATERAL LINE
6. SxSxT TEE
7. SCH 40 PVC STREET ELL
8. 1/2" IPS FLEX PVC TUBE
9. MALE ADAPTER

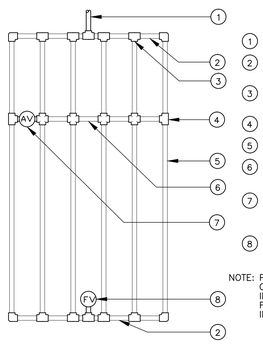
INSTALL BUBBLER ON TOP OF ROOTBALL. STAKE IN PLACE WITH WIRE STAPLE AND COVER WITH MULCH.

□ BUBBLER ON FLE□ RISER
SCALE: NTS

1. FINISH GRADE
2. FLEX PVC EXHAUST HEADER
3. 6" ROUND VALVE BOX
4. AUTOMATIC FLUSH VALVE
5. PVC MALE ADAPTER
6. PVC TEE
7. 3/4" DRAIN ROCK SUMP

NOTE: INSTALL FLUSH VALVE TO HYDRAULIC CENTER OF EXHAUST MANIFOLD.

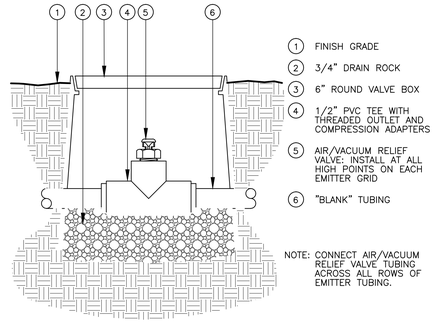
□ AUTOMATIC FLUSH VALVE
SCALE: NTS



1. PVC LATERAL LINE
2. FLEX PVC SUPPLY AND EXHAUST HEADERS
3. SCH 40 PVC FITTING WITH COMPRESSION ADAPTER
4. COMPRESSION FITTING
5. SUBSURFACE EMITTER TUBING
6. "BLANK" TUBING USED TO PLUMB AIR/VACUUM RELIEF VALVE
7. AIR/VACUUM RELIEF VALVE: INSTALL AT ALL HIGH POINTS ON EACH EMITTER GRID
8. AUTOMATIC FLUSH VALVE

NOTE: PLUMB FLUSH VALVE TO HYDRAULIC CENTER OF EXHAUST HEADER. INSTALL ADDITIONAL MANUAL FLUSH BALL VALVE WHERE INDICATED ON PLAN.

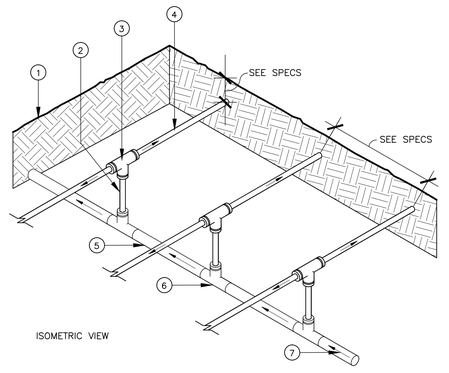
9 SUBSURFACE IRRIGATION LAYOUT
SCALE: NTS



1. FINISH GRADE
2. 3/4" DRAIN ROCK
3. 6" ROUND VALVE BOX
4. 1/2" PVC TEE WITH THREADED OUTLET AND COMPRESSION ADAPTERS
5. AIR/VACUUM RELIEF VALVE: INSTALL AT ALL HIGH POINTS ON EACH EMITTER GRID
6. "BLANK" TUBING

NOTE: CONNECT AIR/VACUUM RELIEF VALVE TUBING ACROSS ALL ROWS OF EMITTER TUBING.

10 AIR/VACUUM RELIEF VALVE
SCALE: NTS



1. FINISH GRADE
2. "BLANK" TUBING
3. COMPRESSION FITTING
4. SUBSURFACE EMITTER TUBING
5. FLEX PVC SUPPLY HEADER
6. SCH 40 PVC FITTING WITH COMPRESSION ADAPTER
7. FROM REMOTE CONTROL VALVE

11 SUBSURFACE TYPICAL CENTER□FEED SUPPLY MANIFOLD
SCALE: NTS

NOT FOR CONSTRUCTION

LICENSED LANDSCAPE ARCHITECT
CHRIS PATTILLO #3865
Signature
Date 2/9/2015
Renewal 10/31
2/9/2015
STATE OF CALIFORNIA

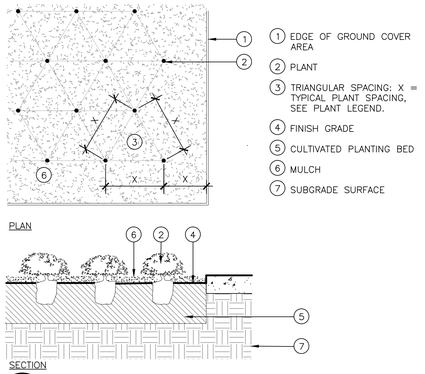
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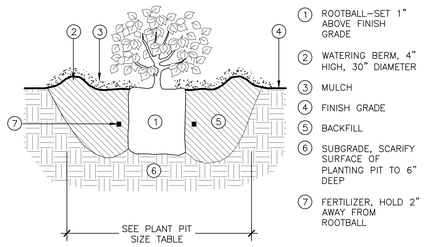
No.	Description	Date
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2	90% CD	2/9/15

L3.1



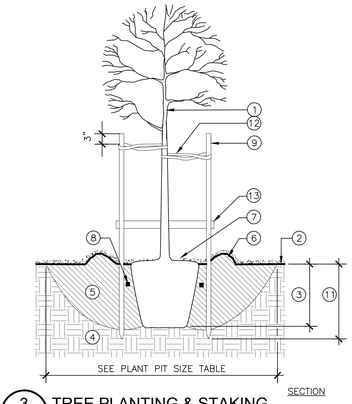
1 EDGE OF GROUND COVER AREA
2 PLANT
3 TRIANGULAR SPACING: X = TYPICAL PLANT SPACING, SEE PLANT LEGEND.
4 FINISH GRADE
5 CULTIVATED PLANTING BED
6 MULCH
7 SUBGRADE SURFACE

1 GROUND COVER PLANTING
L4.0 SCALE: 3/4"=1'=0"

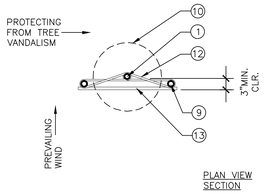


1 ROOTBALL–SET 1" ABOVE FINISH GRADE
2 WATERING BERM, 4" HIGH, 30" DIAMETER
3 MULCH
4 FINISH GRADE
5 BACKFILL
6 SUBGRADE, SCARIFY SURFACE OF PLANTING PIT TO 6" DEEP
7 FERTILIZER, HOLD 2" AWAY FROM ROOTBALL

2 SHRUB PLANTING
L4.0 SCALE: 3/4"=1'–0"

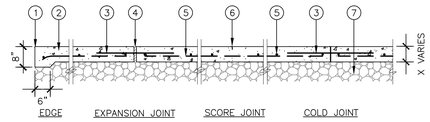


TREE PLANTING:
1 TREE, SET PLUMB
2 FINISH GRADE
3 DIG PLANT PIT 1" SHALLOWER THAN DEPTH OF ROOTBALL, DEEPER BEYOND ROOTBALL AS SHOWN.
4 SUBGRADE – SCARIFY SURFACE OF PLANTING PIT
5 BACKFILL
6 4" HIGH WATERING BERM, 12" BEYOND ROOTBALL
7 MULCH, HOLD 2" FROM TRUNK
8 FERTILIZER, PLACE 2" FROM ROOTBALL



TREE STAKING:
9 TREE STAKES ONLY AS REQUIRED. HEIGHT AS REQUIRED TO SUPPORT TREE. SET VERTICAL, DO NOT PENETRATE ROOTBALL.
10 OUTLINE OF ROOTBALL
11 STAKE DEPTH AS REQUIRED TO SUPPORT TREE
12 TREE TIES, (2) LOOP IN FIGURE 8 AROUND TREE & STAKES AS SHOWN. SCREW TO STAKES – 2 SCREWS PER STAKE
13 1" X 3" CROSSTIE

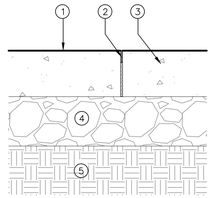
3 TREE PLANTING & STAKING
L4.0 SCALE: 3/8"=1'–0"



1 1/2" R AT EDGES, 1/4" AT ALL JOINTS
2 CONCRETE PAVEMENT, DEPTH CHART:
FOR PEDESTRIAN USE X=4"
FOR LIGHT VEHICULAR TRAFFIC X=6"
FOR HEAVY VEHICULAR TRAFFIC SEE CIVIL DWGS
3 #3 REBAR, 30" LONG, 24" O.C., GREASE ONE END
4 EXPANSION JOINT, 3/8" THICK WITH BACKER ROD. CAULK, COLOR TO MATCH ADJACENT PAVING, SEE NOTES.
5 #4 REBAR, EACH WAY, 18" O.C.
6 TROWEL SCORE WEAKENED PLANE JOINT – 1" DEPTH X 1/4" WIDTH
7 COMPACTED AGGREGATE BASE, FOR DEPTH S.C.D.

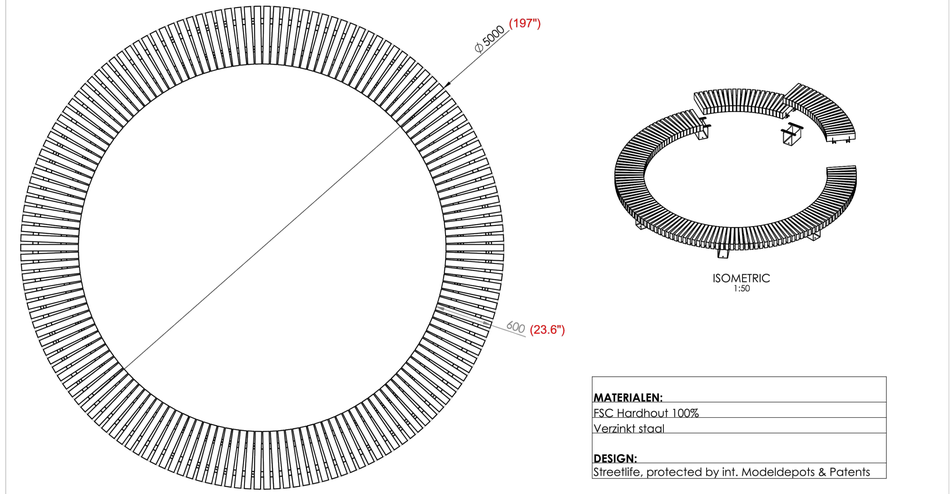
NOTES:
INSTALL EXPANSION JOINT IN PAVING AND AT BUILDING, WALLS, STAIRS, AND AS SHOWN ON PLAN.

4 CONCRETE PAVING
L4.0 SCALE: 1/2"=1'–0"



1 FINISH SURFACE
2 TYPE II MANHATTAN AMERICAN 1/4" THICK EXPANSION DIVIDING STRIP, WITH 16 GUAGE WHITE ZINC METAL FILL WITH FLEXIBLE PRE–MOLDED FILLER, SEALANT COLOR TO MATCH COLOR OF ADJACENT CONCRETE
3 CONCRETE PAVEMENT, SEE 4/L4.0
4 COMPACTED AGGREGATE BASE, FOR DEPTH S.C.D.
5 COMPACTED SUBGRADE

5 METAL EDGING FOR SPIRAL
L4.0 SCALE: 1–1/2"=1'–0"



ISOMETRIC
1:50

MATERIALEN:
FSC Hardhout 100%
Verzinkt staal
DESIGN:
Streetlife, protected by int. Modeldepots & Patents

PROVIDE ALL REQUIRED MOUNTING HARDWARE TO SECURELY ANCHOR BENCH TO PAVING.

purpose: DFA		material:	
am. proj.	scale: 1:25	drawn by:	
	units: mm	checked by: JOBE	
	date: 14-10-2014	client:	

STREETLIFE®
Oude Singel 144
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F +31 (0) 715246849
www.streetlife.nl

project name:
Item no: — Rev.
Item name: **D500 Kringbank** — A3

6 STREETLIFE ROUGH & READY CURVE 500 BENCH
L4.0

BROWN REYNOLDS WATFORD ARCHITECTS
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DATE FEBRUARY 9, 2015
DRAWN BY — KF
CHECKED BY — CP
BRW PROJECT NUMBER | 2140730.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02–3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date
1	DESIGN DEVELOPMENT	12/5/14
2	90% CD	2/9/15

L4.0

LANDSCAPE DETAILS

MATERIAL DATA

GENERAL

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING CODE. SEE 'PROJECT DATA'

CONSTRUCTION LIABILITY
THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

CONCRETE & REINFORCING

REINFORCING STEEL
BARS #4 AND LARGER FOR REINFORCING OF COLUMNS, WALLS, BEAMS & GIRDERS SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A706. ALL OTHER BARS MAY BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A706 OR A615. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 – CURRENT EDITION UNLESS NOTED OTHERWISE ON THE PLANS. REINFORCING FOR SHOTCRETE SHALL HAVE NON CONTACT LAP SPLICES PER CBC, CURRENT GOVERNING EDITION. BARS TO BE WELDED OR FIELD BENT SHALL CONFORM TO ASTM A706.

MECHANICAL REINFORCEMENT COUPLING DEVICE
MECHANICAL COUPLING OF REINFORCEMENT SHALL BE LENTON STANDARD COUPLERS BY ERICO (IAPMO ES ER 0129) OR APPROVED EQUAL.

WELDED WIRE FABRIC – ASTM A 185

CONCRETE
CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 301 & 318. CONCRETE SHALL BE READY–MIXED CONCRETE IN ACCORDANCE WITH ASTM C94.

MAXIMUM WATER–CEMENT RATIO, BY WEIGHT

28 DAY COMPRESSIVE STRENGTH	WATER–CEMENT RATIO
3500 PSI CONCRETE	0.45
3000 PSI CONCRETE	0.50

AVERAGE DRYING SHRINKAGE FOR CONCRETE AFTER 21 DAYS OF DRYING SHALL NOT EXCEED 0.040% IN SUSPENDED SLABS AND 0.048% IN SLABS ON GRADE.

AT THE CONTRACTOR'S OPTION, AN AIR ENTRAINING AGENT CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C260 MAY BE ADDED TO THE CONCRETE TO PROVIDE UP TO A MAXIMUM OF 3% ± 1.5% ENTRAINED AIR. CEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PORTLAND CEMENT PER ASTM DESIGNATION C150, TYPE II. NO MORE THAN 15% BY WEIGHT OF CEMENT MAY BE REPLACED BY FLY ASH CONFORMING TO ASTM C618, CLASS N OR F.

CONCRETE ELEMENT	MIN 28 DAY COMPRESSIVE STRENGTH	MAX SIZE AGGREGATE (INCHES)	SLUMP (INCHES)
FOOTINGS	3000	1–1/2	3
SLABS ON GRADE	3500	1	4
LW CONCRETE TOPPING SLAB (115 PCF DRY WT)	3000	3/8	4

SLUMP WILL BE MEASURED AT THE TRUCK DISCHARGE. SLUMPS NOTED ABOVE ARE FOR CONCRETE WITHOUT ADMIXTURES TO BE CONSOLIDATED USING VIBRATION. FORMWORK CONSTRAINTS, CONGESTION OF REBAR, AND PUMPING OF CONCRETE MAY REQUIRE INCREASED SLUMP BEYOND THE SLUMP LISTED ABOVE. THE CONTRACTOR SHALL ADJUST THE SLUMP UP TO 8" MAX USING ADMIXTURES AS NECESSARY TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. ALL ADMIXTURES SHALL BE NOTED IN THE SUBMITTED MIX DESIGN AND ARE SUBJECT TO THE ENGINEER'S REVIEW. THE SPECIAL INSPECTOR SHALL BE PROVIDED WITH A BATCH TICKET AND WEIGHT TAG UPON DELIVERY OF EACH LOAD OF CONCRETE.

ALL CONCRETE SHALL BE PLACED WITH MECHANICAL VIBRATION UNLESS NOTED OTHERWISE.

UNDER SLAB MATERIALS
SAND SHALL MEET THE REQUIREMENTS OF ACI 302.1R AND CONTAIN NO MORE THAN 20 PERCENT PASSING THE No. 200 SIEVE. SAND SHALL BE MOIST BUT NOT SATURATED AT THE TIME OF CONCRETE SLAB PLACEMENT.

SLAB MEMBRANE SHALL BE 15 MIL POLYETHYLENE FILM, UNLESS NOTED OTHERWISE. LAP SLAB MEMBRANE PER THE MANUFACTURER'S RECOMMENDATIONS, BUT NO LESS THAN 2 FEET.

GRAVEL SHALL BE 3/4" CLEAN MATERIAL MEETING THE REQUIREMENTS OF ACI 302.1R.

NON–SHRINK GROUT
NON SHRINK GROUT SHALL BE FLOWABLE, WITH A MINIMUM 7 DAY COMPRESSIVE STRENGTH OF 5000 PSI. NON–SHRINK GROUT SHALL BE MASTERFLOW 928 GROUT AS MANUFACTURED BY CHEMREX OR APPROVED EQUAL.

MASONRY

STRUCTURAL MASONRY (CMU)
STRUCTURAL MASONRY (CMU) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 530 & 530.1: COMPLIANCE WITH SPECIFIED DESIGN STRENGTH METHOD SHALL BE BY THE UNIT STRENGTH METHOD. AT THE CONTRACTOR'S OPTION, THE PRISM TEST METHOD MAY BE USED TO CONFIRM COMPLIANCE WITH SPECIFIED DESIGN STRENGTH.

MASONRY UNITS SHALL BE OPEN ENDED LIGHT WEIGHT GRADE IN TYPE N UNITS CONFORMING TO ASTM DESIGNATION C90. ALL CELLS SHALL BE GROUTED SOLID. F'm = 1500 PSI. WALL REINFORCEMENT SHALL BE RESTRAINED BY MECHANICAL POSITIONERS AT 48" OC, MAX.

MORTAR SHALL CONFORM TO ASTM C270 TYPE S AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI AT 28 DAYS. MASONRY CEMENT MAY NOT BE USED IN MORTAR.

GROUT SHALL BE COARSE GROUT CONFORMING TO ASTM C476. THE GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. SLUMP SHALL BE 8" TO 10".

POST INSTALLED ANCHORS

ADHESIVE ANCHORING SYSTEMS FOR CONCRETE
ADHESIVE ANCHORING SYSTEMS SHALL BE:
– HILTI HIT–RE500–SD (ICC ESR–2322) OR HIT–HY 200 (ICC ESR 3187)
– SIMPSON SET–XP (ICC ESR–2508) OR AT–XP (IAPMO UES ER–263)
– APPROVED EQUAL.
INSTALLATION OF ANCHORS AND ADHESIVE INCLUDING DRILLING AND CLEANING OF HOLES SHALL BE IN ACCORDANCE WITH THE CURRENT ICC OR IAPMO REPORT. ADHESIVES SHALL BE USED ONLY IN APPLICATIONS PERMITTED BY THE ADHESIVE'S ICC OR IAPMO REPORT. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.

ADHESIVE ANCHORING SYSTEMS FOR GROUTED CONCRETE BLOCK
ADHESIVE ANCHORING SYSTEMS SHALL BE:
– HILTI HY150 (ICC ER–1967)
– SIMPSON SET–XP (IAPMO UES ER–265) OR AT–XP (IAPMO UES ER–281)
– APPROVED EQUAL
INSTALLATION OF ANCHORS AND ADHESIVE INCLUDING DRILLING AND CLEANING OF HOLES SHALL BE IN ACCORDANCE WITH THE CURRENT ICC OR IAPMO REPORT. ADHESIVES SHALL BE USED ONLY IN APPLICATIONS PERMITTED BY THE ADHESIVE'S ICC OR IAPMO REPORT.

EXPANSION ANCHORS FOR CONCRETE
EXPANSION ANCHORS SHALL BE:
– HILTI KWIK BOLT TZ ANCHORS (ICC ESR–1917),
– SIMPSON STRONG BOLT 2 WEDGE ANCHOR (ICC ESR–3037)
– APPROVED EQUAL.
CONTRACTOR SHALL TORQUE ANCHORS IN ACCORDANCE WITH THE ICC OR IAPMO REPORT. EXPANSION ANCHORS SHALL USE WASHERS SIZED TO PREVENT CRUSHING OF THE ATTACHED MEMBER UNDER THE INSTALLATION TORQUE.

EXPANSION ANCHORS FOR GROUTED CONCRETE BLOCK
EXPANSION ANCHORS SHALL BE:
– HILTI KWIK BOLT 3 WEDGE ANCHORS (ICC ESR–1385)
– SIMPSON STRONG BOLT 2 EXPANSION ANCHOR (IAPMO ER–240)
– APPROVED EQUAL.
CONTRACTOR SHALL TORQUE ANCHORS IN ACCORDANCE WITH THE ICC OR IAPMO REPORT. EXPANSION ANCHORS SHALL USE WASHERS SIZED TO PREVENT CRUSHING OF THE ATTACHED MEMBER UNDER THE INSTALLATION TORQUE.

STRUCTURAL STEEL

STRUCTURAL STEEL AND MISCELLANEOUS IRON
STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC CODE OF STANDARD PRACTICE.

1. WIDE FLANGE AND STRUCTURAL TEE SHAPES SHALL CONFORM TO ASTM A992.
2. CHANNELS AND ANGLES SHALL CONFORM TO ASTM A36.
3. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE B.
4. STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
5. STRUCTURAL PLATE SHALL CONFORM TO ASTM A36 OR ASTM A572 GR50.

ALL STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL RECEIVE SHOP PRIME COAT EXCEPT ON SURFACES RECEIVING WELDS, EMBEDDED IN CONCRETE, OR AT SLIP CRITICAL HIGH STRENGTH BOLTS WHICH SHALL BE TOUCHED UP AFTER CONNECTION IS COMPLETE. STRUCTURAL STEEL AND MISCELLANEOUS IRON WHICH IS TO HAVE SPRAY ON FIREPROOFING SHALL NOT BE PAINTED. STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL RECEIVE TWO COATS OF SEMI–GLOSS ALKYD ENAMEL COMPATIBLE WITH PRIMER.

ALL STEEL MEMBERS SHALL BE FABRICATED IN AN APPROVED FABRICATORS SHOP PER CBC 1704.2.5.2. STEEL FABRICATORS SHALL SUBMIT CERTIFICATE OF COMPLIANCE TO THE BUILDING INSPECTOR PRIOR TO STEEL ERECTION.

METAL DECKING
METAL DECKING SHALL COMPLY W/ THE TYPE, SIZE, THICKNESS & ATTACHMENT SHOWN ON THE PLANS AND SHALL BE SUBSTANTIATED BY AN ICC REPORT. METAL DECKING SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653, G60 FOR INTERIOR CONDITIONS AND G90 FOR EXTERIOR CONDITIONS.

MACHINE BOLTS, ANCHOR BOLTS AND THREADED RODS
BOLTS, NUTS, WASHERS AND RODS PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

1. BOLTS AND RODS SHALL CONFORM TO ASTM A307 GRADE A OR B OR A36.
2. ALL BOLTS & LAG SCREWS SHALL HAVE STANDARD STEEL WASHERS, U.N.O.
3. NUTS SHALL BE AS SHOWN BELOW AND FINISH SHALL MATCH FASTENER.

FASTENER GRADE AND SIZE	NUT CLASS	NUT STYLE
ASTM A36 OR ASTM A307A, 1/4" TO 1–1/2"	ASTM A563–A	HEX
ASTM A36 OR ASTM A307A, OVER 1–1/2" TO 4"	ASTM A563–A	HEAVY HEX
ASTM A307B, 1/4" TO 4"	ASTM A563–A	HEAVY HEX

HIGH STRENGTH BOLTS, NUTS, WASHERS & ANCHOR RODS
BOLTS, NUTS, WASHERS AND RODS PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

1. BOLTS SHALL BE HEAVY HEX STRUCTURAL BOLTS PER ANSI B18.2.1 AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. BOLTS SHALL BE TYPE 1, 2 OR 3 AND SHALL BE USED IN A BEARING CONNECTION, U.N.O.
2. TENSION CONTROL BOLT ASSEMBLIES SHALL CONFORM TO ASTM F1852.
3. DIRECT–TENSION INDICATORS SHALL CONFORM TO ASTM F959.
4. RODS SHALL CONFORM TO ASTM A193, GRADE B7 OR ASTM A449, TYPE 1 OR 2.
5. WASHERS SHALL BE FLAT CIRCULAR, RECTANGULAR OR SQUARE BEVELED WASHERS AND SHALL CONFORM TO ASTM F436 TYPE 1. FINISH SHALL MATCH NUT. WASHERS SHALL BE INSTALLED UNDER THE ELEMENT BEING TURNED FOR A325 BOLTS AND UNDER BOTH THE HEAD AND THE NUT FOR A490 BOLTS. WASHERS OVER OVERSIZED OR SLOTTED HOLES SHALL ALSO COMPLY WITH RCSC SPECIFICATIONS.
6. BOLT HOLES SHALL BE STANDARD SIZE (BOLT DIA +1/16") TYP, U.N.O.
7. NUTS SHALL BE AS SHOWN BELOW AND FINISH SHALL MATCH FASTENER.

ITEM	FASTENER GRADE AND SIZE	NUT CLASS	NUT STYLE
BOLTS:			
ASTM A325	TYPE 1 AND 2, UNCOATED	ASTM A563–C, C3,D,DH,DH3	HEAVY HEX
	TYPE 1 AND 2, ZINC COATED	ASTM A563–DH	HEAVY HEX
	TYPE 3, UNCOATED	ASTM A563–C3, DH3	HEAVY HEX
ASTM A490	TYPE 1 AND 2, UNCOATED	ASTM A563–DH, DH3	HEAVY HEX
	TYPE 3, UNCOATED	ASTM A563–DH3	HEAVY HEX
RODS:			
ASTM A449	TYPE 1 AND 2, 1/4" TO 1–1/2" UNCOATED	ASTM A563–B	HEX
	TYPE 1 AND 2, OVER 1–1/2" TO 3" UNCOATED	ASTM A563–DH	HEAVY HEX
	TYPE 1 AND 2, 1/4" TO 3" ZINC COATED	ASTM A563–DH	HEAVY HEX
ASTM A193	B7	ASTM A194–2H	HEAVY HEX

WELDING
ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS PER AWS "STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT AWS WELDING CODE. ARC WELDING ELECTRODES SHALL BE E70 SERIES FOR A36, A53, A500, A572 & A992 MATERIAL, AND E80 SERIES FOR A706 REINFORCING STEEL.

AUTOMATIC END WELDED STUDS
AUTOMATIC END WELDED STUDS SHALL BE NELSON GRANULAR FLUX–FILLED S3L SHEAR CONNECTORS OR CFL FULLY THREADED STUDS (OR APPROVED EQUAL).

1. STUDS SHALL CONFORM TO ASTM A108, GRADES C1010 THROUGH C1020, COLD DRAWN STEEL.
2. HEADED ANCHOR STUDS SHALL BE AWS D1.1 TYPE B.
3. THREADED STUDS SHALL BE AWS D1.1 TYPE A.

THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" DIAMETER AND UNDER, AND 3/16" FOR OVER 5/8" DIAMETER. WELDING SHALL BE DONE BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.

LIGHT GAGE METAL FRAMING
ALL LIGHT GAGE METAL FRAMING SHALL CONFORM TO ASTM A653. STUDS SHALL HAVE PUNCHED WEBS. STUDS AND JOISTS SHALL HAVE STIFFENED FLANGES W/ 1–5/8" MIN WIDTH UNLESS NOTED OTHERWISE ON THE PLANS.

STAIRS
1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE STAIRS TO BE CONSTRUCTED AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. SHOP DRAWINGS SHALL SHOW LAYOUT, SIZE OF MEMBERS, AND CONNECTION DETAILS. IN ADDITION TO THE ABOVE DRAWINGS, CALCULATIONS SHOWING ALL STRESSES AND DEFLECTIONS CAUSED BY DEAD AND LIVE LOADS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE SIGNED BY A REGISTERED CIVIL ENGINEER OF THE STATE OF CALIFORNIA.
2. STAIR DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE MOST CURRENT CBC EDITION ACCEPTED BY THE GOVERNING JURISDICTION AND THE LATEST EDITION OF THE STEEL CONSTRUCTION MANUAL.
3. LOADS SHALL BE AS FOLLOWS:
   DEAD LOAD: AS REQUIRED
   LIVE LOAD: 100 PSF
4. STAIR MANUFACTURERS SHALL OBTAIN ALL NECESSARY APPROVALS FROM THE PUBLIC AGENCIES INVOLVED IN GOVERNING CONSTRUCTION.

WOOD FRAMING

PLYWOOD
ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1–07, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

ALL PLYWOOD PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE PLYWOOD.

ALL UNBLOCKED PLYWOOD EDGES SHALL BE TONGUE–AND–GROOVE OR SUPPORTED WITH PLYWOOD CLEATS OR PLYWOOD CLIPS.

ROOF PLYWOOD:
– 5 PLY EXPOSURE 1, CDX, SPAN RATING 32/16, SPECIES GROUP 2 OR BETTER.

TESTING & SPECIAL INSPECTION

GENERAL

PER CBC SECTION 1704.2 A SPECIAL INSPECTOR SHALL PERFORM SAMPLING, TESTING AND INSPECTION DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK.

SPECIAL INSPECTOR
– THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR
– THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE PROJECT DRAWINGS AND SPECIFICATIONS.
– THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE, THE ARCHITECT OR PROJECT MANAGER, THE STRUCTURAL ENGINEER OF RECORD, THE CONTRACTOR AND OTHER PERSONS DESIGNATED BY THE OWNER OR OWNER'S REPRESENTATIVE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
– THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CBC.

SOILS & FOUNDATIONS

SOILS
– PERIODICALLY INSPECT MATERIALS BELOW FOOTING FOR BEARING CAPACITY.
– PERIODICALLY INSPECT EXCAVATIONS FOR PROPER DEPTH.
– PERIODICALLY PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.
– CONTINUOUSLY VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.
– PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY SITE HAS BEEN PREPARED PROPERLY.

FOUNDATIONS
PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING DEPARTMENT OF THE FOLLOWING IN WRITING:
– THAT THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
– THAT THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
– THAT THE FOUNDATION AND PIERS COMPLY WITH THE SOILS REPORT AND THE APPROVED PLANS.

CONCRETE & REINFORCING

REINFORCING STEEL
– VERIFY THAT MILL CERTIFICATES SHOW REINFORCING STEEL IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.
– PERIODICALLY INSPECT THE PLACEMENT OF REINFORCING STEEL FOR CONCRETE WHICH IS REQUIRED TO HAVE CONTINUOUS INSPECTION AND FOR MASONRY.
– CONTINUOUSLY INSPECT THE INSTALLATION OF ALL MECHANICAL COUPLING DEVICES.

BOLTS INSTALLED IN CONCRETE
– PERIODICALLY INSPECT INSTALLATION OF BOLTS AND CONTINUOUSLY INSPECT PLACEMENT OF CONCRETE AROUND SUCH BOLTS.

CONCRETE
– CONTINUOUSLY INSPECT THE PLACEMENT OF ALL CONCRETE EXCEPT PERIODIC INSPECTION MAY BE PROVIDED FOR THE PLACEMENT OF CONCRETE FOR FOUNDATIONS WITH f'c EQUAL TO 2500 PSI OR LESS AND NON–STRUCTURAL SLABS ON GRADE.
– SAMPLE CONCRETE: ASTM C172, EXCEPT SLUMP SHALL COMPLY WITH ASTM C94.
– TEST SLUMP: ASTM C143, ONE TEST AT POINT OF TRUCK DISCHARGE FOR 150 CY OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE; ADDITIONAL TESTS REQUIRED WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
– TEST CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 50 DEGREES F. (10 DEGREES C.) AND BELOW, AND WHEN 85 DEGREES F. (29 DEGREES C.) AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.
– TAKE COMPRESSION TEST SPECIMENS: ASTM C31, TAKE ONE SET OF 3 STANDARD CYLINDERS FOR EACH 150 CY OF CONCRETE OR 5000 SQ. FT. OF SLABS & WALLS OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE TAKEN EACH DAY. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD–CURE TEST SPECIMENS ARE REQUIRED.
– TEST COMPRESSIVE STRENGTH: ASTM C39; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS.

NON–SHRINK GROUT
– TAKE TEST SPECIMENS AND CONTINUOUSLY INSPECT THE PLACEMENT OF NON–SHRINK GROUT.

MASONRY

STRUCTURAL MASONRY (LEVEL 2 INSPECTION)
– PERIODICALLY INSPECT THE PLACING CONCRETE MASONRY UNITS, PROPORTIONS OF SITE–PREPARED MORTAR, CONSTRUCTION OF MORTAR JOINTS, AND LOCATION OF REINFORCEMENT.
– PERIODICALLY INSPECT SIZE OF STRUCTURAL ELEMENTS AND REINFORCEMENT SIZE, GRADE AND TYPE.
– CONTINUOUSLY INSPECT INSTALLATION OF ANCHOR ASSEMBLIES.
– PRIOR TO GROUTING, VERIFY GROUT SPACE IS CLEAN.
– VERIFY THAT LETTERS OF CERTIFICATION FOR UNITS AND GROUT ARE IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS.
– CONTINUOUSLY INSPECT GROUT PLACEMENT.
– TEST GROUT TEMPERATURE HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F. AND BELOW, AND WHEN 90 DEGREES F. AND ABOVE.
– CONTINUOUSLY INSPECT PREPARATION OF REQUIRED PRISMS.
– TEST 3 PRISMS FOR EACH 5000 SQUARE FEET OF WALL.

POST INSTALLED ANCHORS

POST–INSTALLED ANCHORS
– THE SPECIAL INSPECTOR SHALL VERIFY THE INSPECTION REQUIREMENTS WITH THE ICC REPORT FOR EACH ANCHOR TYPE.
– THE SPECIAL INSPECTOR SHALL VERIFY THE INITIAL INSTALLATIONS OF EACH TYPE AND SIZE OF ANCHOR BY CONSTRUCTION PERSONNEL.
– PERIODICALLY INSPECT PLACEMENT OF POST–INSTALLED ANCHORS.
– CONTINUOUSLY INSPECT PLACEMENT OF OVERHEAD (VERTICAL UP) POST–INSTALLED ANCHORS.
– THE SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING AND RECORD THE INSTALLATION IN THE INSPECTION REPORT:
  1. ANCHOR TYPE, SIZE, AND DIMENSIONS.
  2. HOLE DIMENSIONS AND CLEANLINESS.
  3. ANCHOR SPACING.
  4. EDGE DISTANCE.
  5. ANCHOR EMBEDMENT.
  6. TORQUE VALUE (AS APPLICABLE).
  7. ADHESIVE TYPE AND EXPIRATION (AS APPLICABLE).

STRUCTURAL STEEL

STRUCTURAL STEEL AND MISCELLANEOUS IRON
– VERIFY THAT MILL CERTIFICATES SHOW STRUCTURAL STEEL AND MISCELLANEOUS IRON IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.

METAL DECK
– VERIFY THAT MILL CERTIFICATES SHOW METAL DECK IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.
– PERIODICALLY INSPECT THE PLACEMENT OF ALL METAL DECK PRIOR TO METAL DECK BEING COVERED.

HIGH STRENGTH BOLTING
PRIOR TO BOLTING OPERATIONS:
– VERIFY THAT MILL CERTIFICATES SHOW THAT BOLTS, NUTS AND WASHERS COMPLY WITH THE PROJECT SPECIFICATIONS.
– VERIFY THAT THE METHODS OF TIGHTENING TO BE USED BY THE CONTRACTOR COMPLY WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" – CURRENT EDITION APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION (RCSC) AND ENDORSED BY AISC.
– PERFORM TENSION CALIBRATION TESTS WITH THE CONTRACTOR'S TOOLS ON 3 BOLT ASSEMBLIES FOR EACH DIAMETER, LENGTH, GRADE, PRODUCTION LOT AND TIGHTENING METHOD TO BE USED ON THE PROJECT INCLUDING PRETENSIONED ANCHOR RODS. TESTS SHALL BE PER RCSC SPECIFICATIONS.
– INSPECT THE FAYING SURFACES OF EACH BOLTED CONNECTION FOR COMPLIANCE WITH RCSC SPECIFICATIONS.

DURING BOLTING OPERATIONS:
– VERIFY THAT ALL PLIES OF CONNECTED MATERIAL HAVE BEEN DRAWN TOGETHER TO A SNUG CONDITION AS DEFINED PER RCSC SPECIFICATIONS BEFORE FINAL TIGHTENING.
– VERIFY PLACEMENT OF MATCH–MARKS OR WRENCH CALIBRATION AS REQUIRED.
– CONTINUOUSLY INSPECT FINAL TIGHTENING OPERATIONS PER RCSC SPECIFICATIONS.

EXCEPTIONS:
– THE SPECIAL INSPECTOR NEED NOT BE PRESENT DURING ALL FINAL TIGHTENING OPERATIONS PROVIDED IT CAN BE VERIFIED THAT PROPER PROCEDURES WERE FOLLOWED (I.E. THE USE OF DTI's, "TWIST–OFF" TYPE BOLTS OR MATCH MARKING).

WELDING
– VERIFY WELDER CERTIFICATIONS, COMPLIANCE WITH WELDING PROCEDURE SPECIFICATIONS AND PQR (IF APPLICABLE).
– CONTINUOUSLY INSPECT ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL.

EXCEPTIONS:
– SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" MAY HAVE PERIODIC INSPECTION.
– FLOOR AND ROOF DECK WELDING MAY HAVE PERIODIC INSPECTION.
– WELDED STUDS USED FOR DIAPHRAGM OR COMPOSITE CONSTRUCTION MAY HAVE PERIODIC INSPECTION.
– WELDED SHEET STEEL FOR COLD FORMED STEEL FRAMING MAY HAVE PERIODIC INSPECTION.
– WELDED STAIRS AND RAILING SYSTEMS MAY HAVE PERIODIC INSPECTION.

NONDESTRUCTIVE TESTING:
– MAGNETIC PARTICLE TESTING OF 100% OF WEBS WHERE WELDING OF PLATES HAS OCCURRED IN THE K–AREA.
– ULTRASONIC TESTING OF 100% OF COMPLETE JOINT PENETRATION GROOVE WELDS ON MATERIALS 5/16" THICK AND GREATER.
– MAGNETIC PARTICLE TESTING OF 25% OF COMPLETE JOINT PENETRATION GROOVE WELDS OF BEAM TO COLUMN JOINTS.
– ULTRASONIC TESTING OF 100% OF COMPLETE JOINT PENETRATION GROOVE WELDS ON TEE AND CORNER JOINTS WHERE MATERIAL THICKER THAN 3/4" IS CONNECTED TO BASE METAL THICKER THAN 1–1/2".
EXCEPTION:
– THE RATE OF TESTING FOR ULTRASONIC WELDS MAY BE REDUCED TO 25% IF THE FAILURE RATE MEETS THE REQUIREMENTS OF AISC 341 APPENDIX Q.

AUTOMATIC END – WELDED STUDS
– THE SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING WITH THE MANUFACTURER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS. RECORD THE INSTALLATION IN THE INSPECTION REPORT:
  1. STUD TYPE, SIZE, AND CLEARANCES TO EDGES AND ADJACENT STUDS.
  2. TYPE OF WELDING EQUIPMENT.
  3. WELDER'S QUALIFICATIONS.
  4. WELDING PROCEDURE.
  5. WELD JOINT PREPARATION.
– PERIODICALLY INSPECT INSTALLATION OF STUDS.
– TEST STUDS PER THE REQUIREMENTS OF AWS D1.1, AISC 360, AND THE STUD'S ICC REPORT. PERFORM TORQUE TEST FOR TYPE A STUDS AND BEND TESTS FOR TYPE B STUDS.
– TEST STUDS WITH THE FOLLOWING FREQUENCY:
  1. AT THE BEGINNING OF EACH DAY'S WORK, A MINIMUM OF TWO TEST STUD WELDS SHALL BE MADE WITH THE EQUIPMENT TO BE USED TO METAL WHICH IS THE SAME AS ACTUAL WORK PIECE.
  2. AT ANY CHANGE IN WELDING SETUP OR PERSONNEL, RETEST TWO STUDS PRIOR TO PRODUCTION WORK.

LIGHT GAGE METAL FRAMING
– VERIFY THAT MILL CERTIFICATES SHOW STRUCTURAL STEEL AND MISCELLANEOUS IRON USED IN FABRICATION OF LIGHT GAGE METAL FRAMING IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.

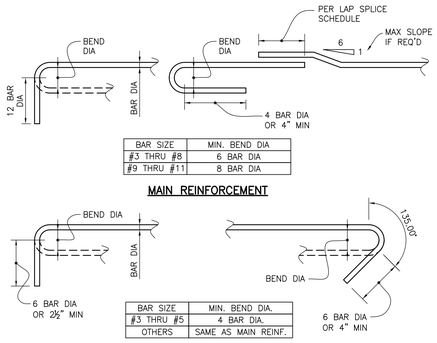
MISCELLANEOUS

ARCHITECTURAL COMPONENTS
– PERIODICALLY INSPECT INSTALLATION OF EXTERIOR CLADDING & VENEER, NON–BEARING WALLS.

MECHANICAL AND ELECTRICAL COMPONENTS
– PERIODICALLY INSPECT INSTALLATION OF ANCHORAGE OF EMERGENCY ELECTRICAL EQUIPMENT.

ABBREVIATIONS

@	AT	FOM	FACE OF MASONRY	PL	PLATE
ø	DIAMETER	FOS	FACE OF STUD(S)	PLY	PLYWOOD
#	NUMBER	FP	FULL PENETRATION	PSF	POUNDS PER SQUARE FOOT
AB	ANCHOR BOLT	FS	FAR SIDE	PSI	POUNDS PER SQUARE INCH
ACI	AMERICAN CONCRETE INSTITUTE	FTG	FOOTING



BAR SIZE	MIN. BEND DIA
#3 THRU #8	6 BAR DIA
#9 THRU #11	8 BAR DIA

MAIN REINFORCEMENT

BAR SIZE	MIN. BEND DIA.
#3 THRU #5	4 BAR DIA.
OTHERS	SAME AS MAIN REINF.

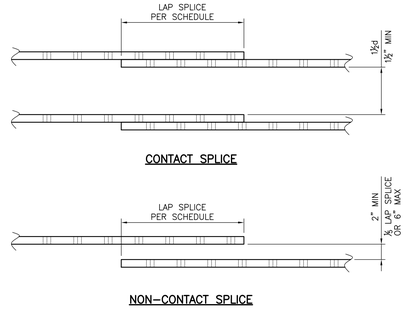
STIRRUPS & TIES

TYPICAL BAR HOOKS — 1 / S1.1

1"=1'-0"

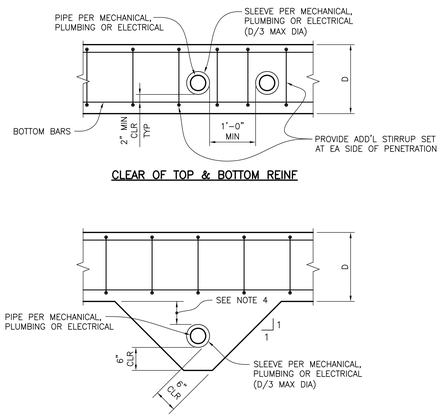
MINIMUM LAP SPLICE SCHEDULE			
BAR SIZE	POSITION	LAP SPLICE LENGTH IN INCHES	
		F'c ≤ 3500 PSI	
		CLASS A	CLASS B
#3	TOP	24	28
	BOTTOM	24	24
#4	TOP	29	38
	BOTTOM	24	29
#5	TOP	36	47
	BOTTOM	28	36
#6	TOP	43	56
	BOTTOM	33	43
#7	TOP	63	81
	BOTTOM	48	63
#8	TOP	72	93
	BOTTOM	55	72
#9	TOP	81	105
	BOTTOM	62	81
#10	TOP	91	118
	BOTTOM	70	91
#11	TOP	101	131
	BOTTOM	78	101

NOTES:
1. LAP SPLICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. LAP SPLICES SHALL BE CLASS B UNLESS NOTED OTHERWISE.
3. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF FRESH CONCRETE BELOW THE BAR.
4. WHEN TWO BARS OF DIFFERENT SIZE ARE SPLICED, USE THE LARGER LAP LENGTH.
5. STAGGER LAP SPLICES WHERE POSSIBLE. WHERE CLASS A SPLICES ARE CALLED OUT ON THE DRAWINGS, STAGGER LAP SPLICES 24 INCHES FOR ADJACENT BARS.
6. LAP SPLICES NOTED ARE FOR NORMAL WEIGHT CONCRETE. LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR LIGHTWEIGHT CONCRETE.
7. NO SPLICES ARE ALLOWED FOR #14 AND #18 REINFORCEMENT.
8. BAR DEVELOPMENT LENGTHS EQUAL CLASS A LAP SPLICE LENGTHS.
9. ENTIRE BUNDLED BARS SHALL NOT BE LAP SPLICED. LAP SPLICES OF INDIVIDUAL BARS WITHIN THE BUNDLE SHALL NOT OVERLAP.
10. AT CONTRACTOR'S OPTION, MECHANICAL COUPLERS MAY BE SUBSTITUTED FOR LAP SPLICES. MECHANICAL COUPLERS SHALL HAVE AN ICC REPORT AND SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR.



LAP SPLICE SCHEDULE FOR CONCRETE — 2 / S1.1

NO SCALE



NOTES:
1. SLEEVE ID 2" LARGER THAN PIPE OD OR BELL OD.
2. SEAL VOID BETWEEN PIPE AND SLEEVE WITH ELASTIC WATERPROOF MATERIAL, TYP.
3. DETAIL APPLICABLE TO MAXIMUM 8"ø SLEEVE.
4. NO FTG EXTENSION REQ'D FOR PIPE DEEPER THAN 12" BELOW FTG (SLEEVE STILL REQ'D).
5. WHERE PENETRATION CONFLICTS WITH REBAR TIE, OMIT TIE & PROVIDE 1 ADDITIONAL TIE EA SIDE OF SLEEVE.

TYPICAL FOOTING PENETRATIONS — 6 / S1.1

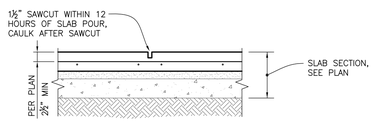
3/4"=1'-0"

MINIMUM CONCRETE COVER SCHEDULE	
ELEMENT	CLEAR COVER (INCHES)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 AND SMALLER	1½
#6 AND LARGER	2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS & JOISTS:	
#11 AND SMALLER	¾
#14 AND #18	1½
BEAMS & COLUMNS	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, & SPIRALS	1½
SHELLS & FOLDED PLATE MEMBERS	
#5 AND SMALLER	½
#6 AND LARGER	¾

NOTES:
1. COVERS NOTED SHALL BE USED UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS.
2. COVERS NOTED ARE FOR CAST-IN-PLACE, NON-PRESTRESSED MEMBERS..
3. MINIMUM CLEAR COVER FOR BUNDLED BARS SHALL BE THE LESSER OF THE EQUIVALENT DIAMETER OF THE BUNDLE AND 2".

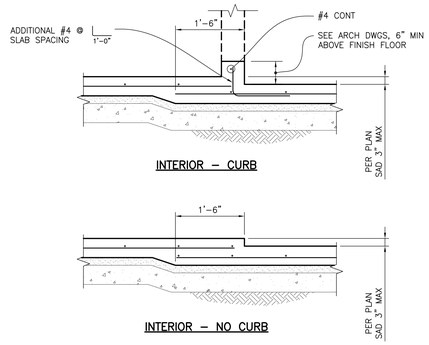
MINIMUM CONCRETE COVER SCHEDULE — 3 / S1.1

NO SCALE



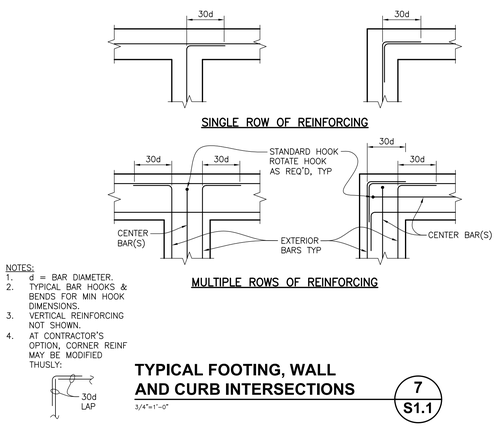
TYPICAL SLAB DEPRESSION — 4 / S1.1

3/4"=1'-0"



TYPICAL SLAB DEPRESSION — 5 / S1.1

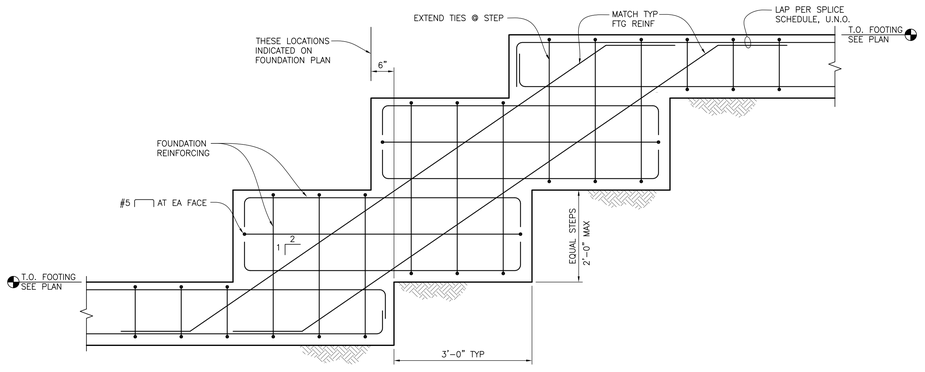
3/4"=1'-0"



NOTES:
1. d = BAR DIAMETER.
2. TYPICAL BAR HOOKS & BENDS FOR MIN HOOK DIMENSIONS.
3. VERTICAL REINFORCING NOT SHOWN.
4. AT CONTRACTOR'S OPTION, CORNER REINF MAY BE MODIFIED THUSLY:

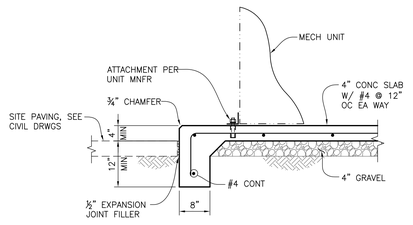
TYPICAL FOOTING, WALL AND CURB INTERSECTIONS — 7 / S1.1

3/4"=1'-0"



TYPICAL STEP DETAIL — 8 / S1.1

3/4"=1'-0"



TYPICAL EXTERIOR MECHANICAL PAD — 9 / S1.1

3/4"=1'-0"

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DATE -
DRAWN BY DDA
CHECKED BY WDH
BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

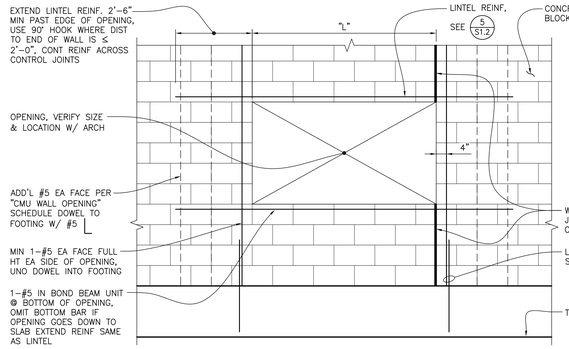
S1.1

TYPICAL DETAILS No.1

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REINFORCED STRUCTURAL MASONRY NOTES:

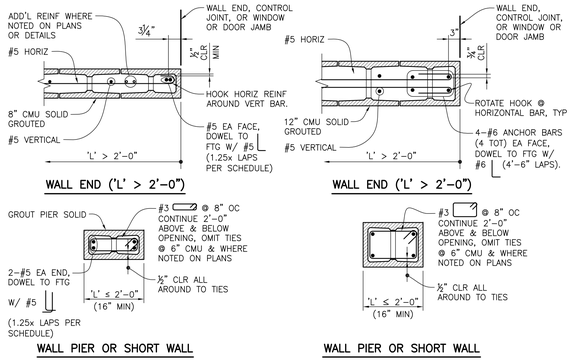
1. ALL CELLS IN CONCRETE BLOCK CONSTRUCTION SHALL BE FULLY GROUTED.
2. THE STANDARD WIDTH OF BOTH HORIZONTAL AND VERTICAL MORTAR JOINTS SHALL BE ⅜".
3. CONCRETE BLOCK CONSTRUCTION SHALL BE RUNNING BOND WITH OPEN ENDED BLOCK. STACK BOND REQUIRES OPEN ENDED BLOCK AT ALL BOND BEAM UNITS.
4. ALL VERTICAL STEEL IN WALLS AND COLUMNS SHALL BE LAPPED WITH DOWELS OF THE SAME SIZE AND SPACING INTO THE FOOTING UNLESS NOTED OTHERWISE. DOWELS SHALL BE DETAILED SIMILAR TO TYPICAL WALL DOWELS.
5. TYPICAL HORIZONTAL WALL REINFORCEMENT SHALL BE INSTALLED ABOVE AND BELOW ALL OPENINGS UNLESS NOTED OTHERWISE ON THE DRAWINGS. REINFORCEMENT SHALL EXTEND PAST OPENINGS 30", MINIMUM. IF REINFORCEMENT CANNOT EXTEND A FULL 30" PAST THE OPENING, THEN THE REINFORCING IS TO EXTEND AS FAR AS POSSIBLE AND THE REST OF THE BAR IS TO BE BENT 90 DEGREES, EITHER UP OR DOWN.
6. MECHANICAL COUPLERS WHICH DEVELOP 125% OF THE BARS' YIELD STRENGTH MAY BE SUBSTITUTED FOR LAP SPLICES UPON SUBMITTAL AND REVIEW BY THE ENGINEER. WHEN A LAP SPLICE CANNOT BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, THE ENGINEER MAY SPECIFY A MECHANICAL SPLICE AT NO ADDITIONAL COST TO THE OWNER.
7. CLEANOUTS SHALL BE PROVIDED AT THE BOTTOM COURSE OF EVERY GROUT POUR AT EACH VERTICAL BAR.
8. WHERE ELECTRICAL CONDUITS ARE RUN IN 8" CMU CELLS, THE CONDUITS SHALL BE LOCATED AT THE FACE OF CONCRETE AWAY FROM THE REINFORCEMENT AND BOXES MAY BE CONCEALED W/IN THE CMU. IN 12" CMU, THE CONDUITS MAY BE RUN AT MID DEPTH BUT THE BOXES SHALL BE SURFACE MOUNTED. HORIZONTAL REINF MAY BE SHIFTED UP OR DOWN ONE CELL AS LONG AS THE SPACING REQUIREMENTS ARE NOT EXCEEDED. IN NO CASE SHALL REBAR BE CUT TO ACCOMODATE CONDUIT OR ELECTRICAL BOXES.



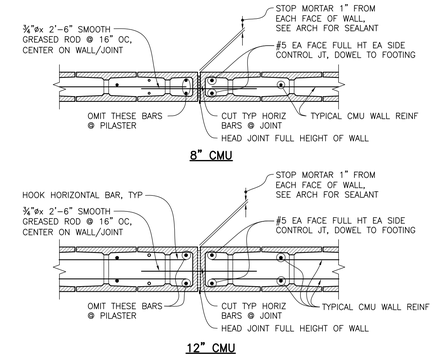
CMU WALL OPENING REINFORCING	
OPENING LENGTH "L"	VERTICAL TRIM STEEL EACH SIDE
L < 4'-0"	1-#5 EA FACE
L ≤ 8'-0"	2-#5 EF @ 8" OC
L > 8'-0"	3-#5 EF @ 8" OC

NOTES:
1. ADDITIONAL VERTICAL TRIM STEEL NOT REQUIRED WHERE PILASTER, COLUMN, OR RETURN WALL OCCURS ADJACENT TO OPENING.
2. FOR OPENINGS FOR ROUND DUCTS 24"ø MAX, CONSTRUCT SQUARE OPENING W/ MIN 2 COURSES ABOVE & BELOW & GROUT BACK SOLID AROUND DUCT.

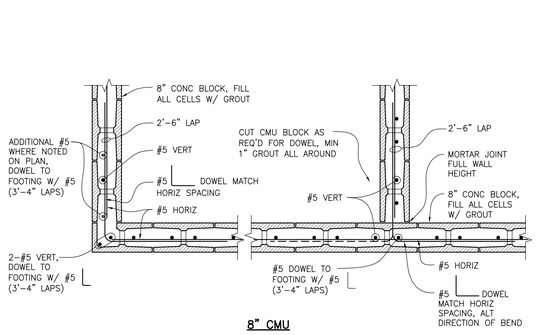
TYPICAL WALL ELEVATION 1/2"=1'-0" — 1 S1.2



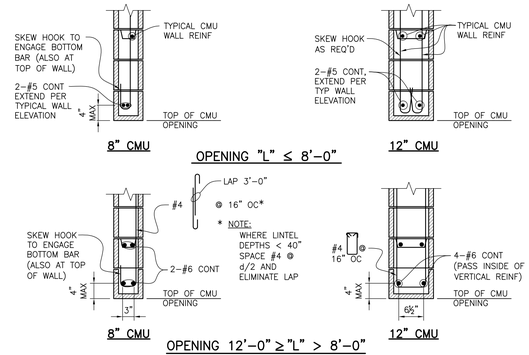
TYPICAL WALL END / PIER 3/4"=1'-0" — 2 S1.2



TYPICAL WALL CONTROL JOINT 3/4"=1'-0" — 3 S1.2

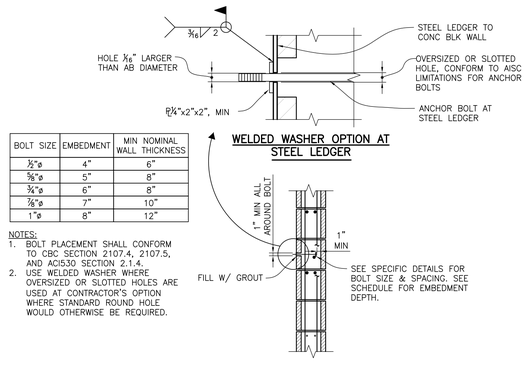


TYPICAL WALL CORNERS & INTERSECTIONS 3/4"=1'-0" — 4 S1.2



NOTE: MINIMUM END SUPPORT OF LINTEL SHALL BE 4"

TYPICAL LINTEL 3/4"=1'-0" — 5 S1.2



BOLT SIZE	EMBEDMENT	MIN NOMINAL WALL THICKNESS
½"ø	4"	6"
⅝"ø	5"	8"
¾"ø	6"	8"
⅞"ø	7"	10"
1"ø	8"	12"

NOTES:
1. BOLT PLACEMENT SHALL CONFORM TO CBC SECTION 2107.4, 2107.5, AND ACI530 SECTION 2.1.4.
2. USE WELDED WASHER WHERE OVERSIZED OR SLOTTED HOLES ARE USED AT CONTRACTOR'S OPTION WHERE STANDARD ROUND HOLE WOULD OTHERWISE BE REQUIRED.

TYPICAL BOLT IN CMU WALL 3/4"=1'-0" — 6 S1.2

LAP SPLICE SCHEDULE		
BAR SIZE	STANDARD LAP LENGTH	REDUCED LAP LENGTH
#3	16"	16"
#4	26"	22"
#5	40"	28"
#6	74"	50"
#7	102"	68"
#8	152"	102"

NOTES:
1. LAP SPLICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. THE REDUCED LAP LENGTH MAY BE USED WHEN BOTH THE CLEAR COVER & BAR SPACING BETWEEN ADJACENT BARS IS EQUAL TO OR GREATER THAN 3".
3. WHEN TWO BARS OF DIFFERENT SIZE ARE SPLICED, USE LONGER LAP LENGTH.

LAP SPLICE SCHEDULE FOR MASONRY 3/4"=1'-0" — 7 S1.2

DESIGN DEVELOPMENT

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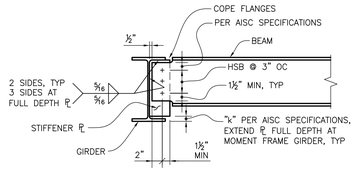
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1629 BUENA VISTA A.V.E.
ALAMEDA, CA 94501

No.	Description	Date

S1.2

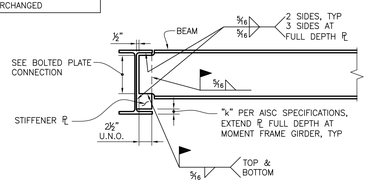
TYPICAL DETAILS No.2

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BOLTED PLATE CONNECTION

NOTE:
BOLTED AND WELDED CONNECTIONS MAY BE INTERCHANGED



WELDED PLATE CONNECTION

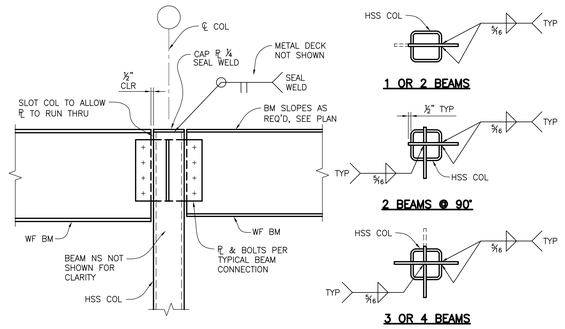
BEAM SIZE	NUMBER OF BOLTS	BOLTS	STIFF PLATE * THICKNESS
C8–C12, W8–W10	2	¾"ø	⅜"
C13–C15, W12–W14	3	¾"ø	⅜"
C18, W16	4	¾"ø	⅜"
W18, W21	5	¾"ø	⅜"
W24	6	¾"ø	½"
W27	7	¾"ø	½"
W30	8	¾"ø	½"
W36	9	¾"ø	½"

* USE WEB THICKNESS OF SUPPORTED BEAM WHEN IT EXCEEDS TABULATED VALUES

TYPICAL BEAM CONNECTION

1"=1'-0"

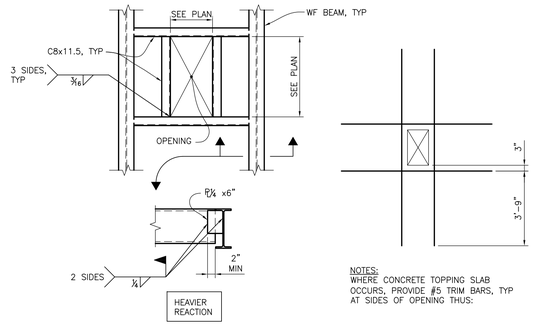
1 S1.3



TYP BEAM TO TOP OF HSS COL CONNECTION

1"=1'-0"

2 S1.3

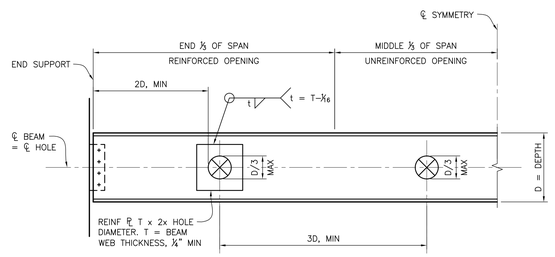


NOTES:
WHERE CONCRETE TOPPING SLAB OCCURS, PROVIDE #5 TRIM BARS, TYP AT SIDES OF OPENING THUS:

TYPICAL FRAMED DECK OPENING

3/4"=1'-0"

3 S1.3

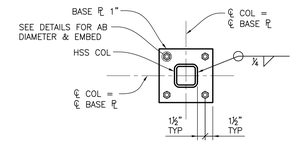


NOTE:
1. HOLES 2"ø AND LESS SHALL NOT BE TORCH CUT.
2. TORCH CUT HOLES SHALL BE W/IN ¼" AMPLITUDE FROM CIRCULAR HOLE DIAMETER. CONTRACTOR SHALL MARK BEAM W/ HOLE OUTLINE PRIOR TO CUTTING.
3. GRIND TORCH CUT HOLES TO REMOVE BURRS.

TYPICAL STEEL BEAM PENETRATION

NO SCALE

5 S1.3



MAX AB HOLE OVERSIZE	
AB DIA	OVERSIZE
¾" – 1"	5/16"
1⅛" – 2"	½"

NOTE: PROVIDE MIN ⅜"x3"x0'-3" ℄ WASHER UNDER NUT @ OVERSIZED HOLES.

HSS COLUMN

TYPICAL BASE PLATE DETAIL

1"=1'-0"

4 S1.3

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STRUCTURAL
STATE OF CALIFORNIA

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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

S1.3

TYPICAL DETAILS No.3

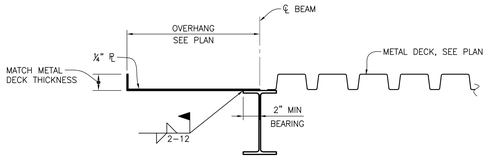
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METAL DECK SCHEDULE

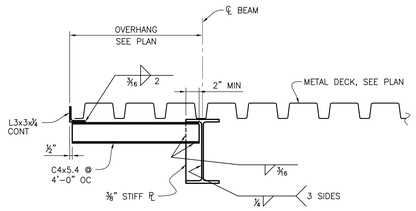
TYPE	PRODUCT	ICC REPORT	HEIGHT (INCH)	GAGE	CONCRETE FILL (INCH)	REINFORCING	PROFILE	-Ix MIN (IN^4)	+Ix MIN (IN^4)	-Sx MIN (IN^3)	+Sx MIN (IN^3)	REMARKS
1	VERCO W2 FORMLOK	ESR 1735P	2	18	2¾"	6x6 W4.0xW4.0 WWF @ MID-DEPTH	5", 7", 12", 5", 3'-0", 2⅛"	N/A	0.555	0.511	0.510	VENTED FLOOR DECK
2	VERCO N-24	ESR 1735P	3	16	N/A	N/A	5⅝", 2⅜", 8", 3", 1⅞", 2'-0"	N/A	1.283	0.737	0.664	ROOF DECK

NOTE:
1. METAL DECK SHALL BE CONTINUOUS OVER 3 SPANS WHERE POSSIBLE. CONTRACTOR SHALL DETERMINE SHORING REQUIREMENTS FOR DECK INSTALLATION.
2. METAL DECK SHALL BEAR A MINIMUM OF 2 INCHES AT ENDS AND 4 INCHES AT INTERMEDIATE SUPPORTING MEMBERS.
3. DECK FLUTES SHALL RUN PERPENDICULAR TO SUPPORTING MEMBERS UNLESS SHOWN OTHERWISE.
4. CONCRETE FILL THICKNESS IS MEASURED FROM TOP OF DECK TO TOP OF CONCRETE. CONTRACTOR TO COMPENSATE FOR FRAMING AND DECK DEFLECTION TO MAINTAIN LEVEL.
5. NO CONDUITS SHALL BE RUN WITHIN THE CONCRETE FILL UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
6. MECH, ELEC, OR PLUMBING UTILITIES HUNG FROM METAL DECK SHALL NOT EXCEED 10D# PER HANGER AND SHALL BE SPACED SO THAT THE TOTAL UTILITY WEIGHT DOES NOT EXCEED 5 PSF.
7. PROVIDE BENT ℄ CLOSURES AT ALL DECK EDGES @ CONC FILL LOCATIONS, U.N.O.
8. THE CONTRACTOR SHALL PROTECT METAL DECK DURING CONSTRUCTION. ANY DECKING WHICH IS FOUND TO BE DAMAGED SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
9. ISOLATED DECK PENETRATIONS UP TO 6" x 6" OR 6"ø DO NOT REQUIRE ADDITIONAL STEEL SUPPORT ANGELS. PROVIDE TRIM REINFORCING AT ALL PENETRATIONS PER 6/S1.4. DECK PENETRATIONS LOCATED AT 2'-0" OC OR CLOSER SHALL BE CONSIDERED AS A SINGLE PENETRATION.

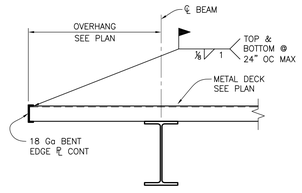
METAL DECK SCHEDULE — 1 / S1.4
1"=1'-0"



METAL DECK PARALLEL TO EDGE BEAM
OVERHANG ≤ 12"

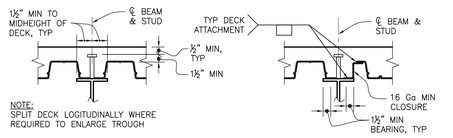


METAL DECK PARALLEL TO EDGE FORM
12" < OVERHANG ≤ 24"



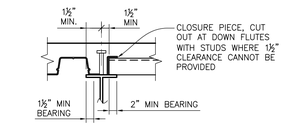
METAL DECK PERPENDICULAR TO EDGE BEAM
OVERHANG ≤ 24"

TYPICAL DECK OVERHANG W/O CONC FILL — 4 / S1.4
1"=1'-0"

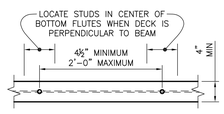


FLUTE CENTERED ON BM

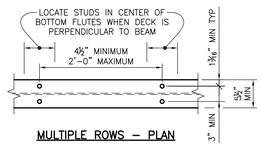
OFF-CENTER FLUTE



CHANGE OF DECK DIRECTION



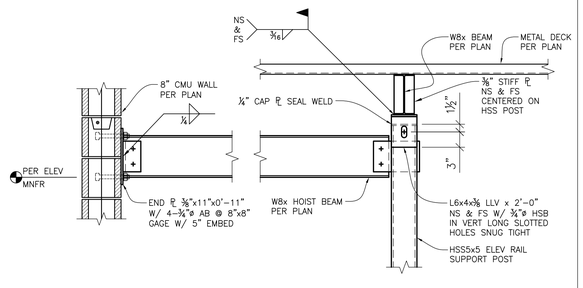
SINGLE ROW – PLAN



MULTIPLE ROWS – PLAN

NOTES:
1. WELDED STUDS SHALL BE ¾" DIAMETER, U.N.O.
2. WHERE WELDED STUDS FILL EVERY FLUTE, REMAINING STUDS SHALL BE INSTALLED ON TWO OR MORE ROWS STARTING AT EACH END OF BEAM OR GIRDER.
3. WELDED STUDS ARE EQUALLY SPACED UNLESS OTHERWISE NOTED ON PLANS. IF EQUAL SPACING IS NOT POSSIBLE DUE TO DECK CONFIGURATION, THE STRUCTURAL ENGINEER MUST BE NOTIFIED.
4. DISTANCE FROM END OF BEAM TO CENTERLINE OF FIRST STUD SHALL NOT EXCEED 12" U.N.O.

TYPICAL DECK AND WELDED STUD PLACEMENT — 5 / S1.4
1"=1'-0"

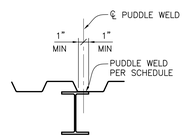


TYPICAL ELEVATOR RAIL SUPPORT POST — 8 / S1.4
1"=1'-0"

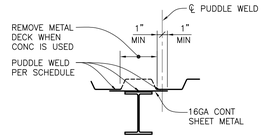
METAL DECK ATTACHMENT

TYPE	TRANSVERSE SUPPORTS	PARALLEL SUPPORTS	SIDE SEAMS	REMARKS
1	4 PUDDLE WELDS PER 36 INCH SHEET	PUDDLE WELDS @ 12" OC	VERCO SIDELAP CONNECTIONS @ 36" OC	
2	4 PUDDLE WELDS PER 24 INCH SHEET	PUDDLE WELDS @ 12" OC	VERCO SIDELAP CONNECTIONS @ 24" OC	

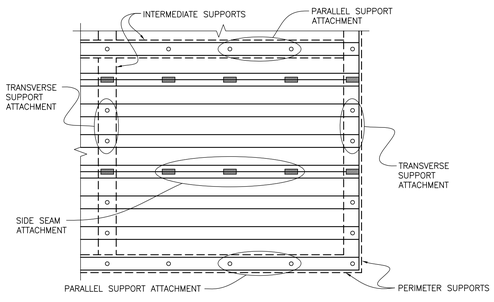
NOTE:
1. PUDDLE WELDS SHALL HAVE ⅝" EFFECTIVE DIAMETER.
2. A HEADED STUD WELDED THRU DECK MAY REPLACE A SINGLE DECK WELD.



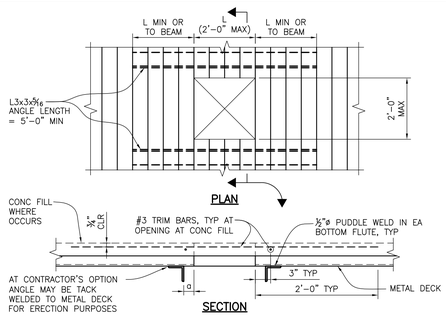
BOTTOM FLUTE AT SUPPORT



BOTTOM FLUTE OUTSIDE SUPPORT

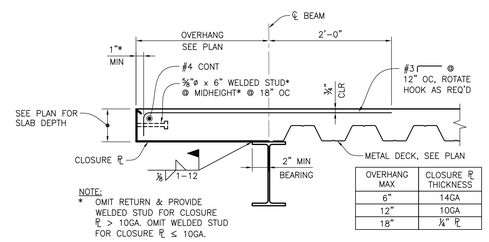


METAL DECK ATTACHMENT SCHEDULE — 2 / S1.4
1"=1'-0"



NOTES:
1. THESE OPENINGS ARE NOT SHOWN ON FRAMING PLANS. a = 2" TYP, ADJACENT L3x3 MAY BE OMITTED WHERE DISTANCE "a" TO BEAM FLANGE IS 8" OR LESS.
2. L3x3s MAY BE OMITTED AT SINGLE OPENINGS 6" DIAMETER/4" SQUARE OR SMALLER THAT CUT MAXIMUM OF ONE DECK WEB.

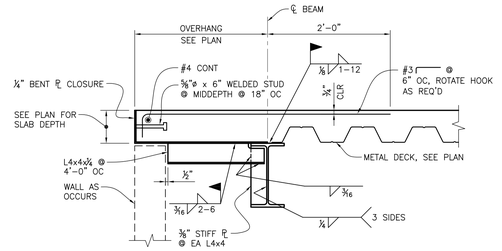
TYPICAL SMALL DECK PENETRATION — 6 / S1.4
1"=1'-0"



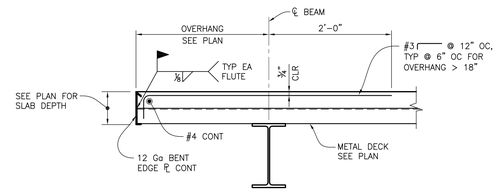
NOTE:
* OMIT RETURN & PROVIDE WELDED STUD FOR CLOSURE ℄ > 10GA. OMIT WELDED STUD FOR CLOSURE ℄ ≤ 10GA.

OVERHANG MAX	CLOSURE ℄ THICKNESS
6"	14GA
12"	10GA
18"	¼" ℄

METAL DECK PARALLEL TO EDGE BEAM
OVERHANG ≤ 18"

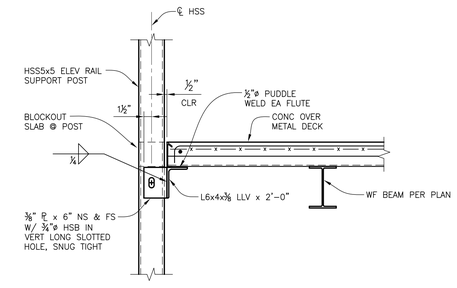


METAL DECK PARALLEL TO EDGE FORM
18" < OVERHANG ≤ 30"



METAL DECK PERPENDICULAR TO EDGE BEAM
OVERHANG ≤ 30"

TYPICAL DECK OVERHANG AT CONC FILL — 3 / S1.4
1"=1'-0"



TYPICAL ELEVATOR SUPPORT POST — 7 / S1.4
1"=1'-0"

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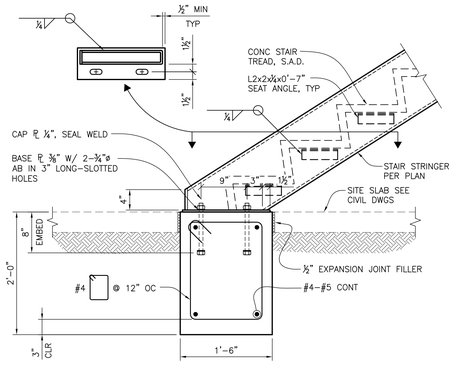
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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

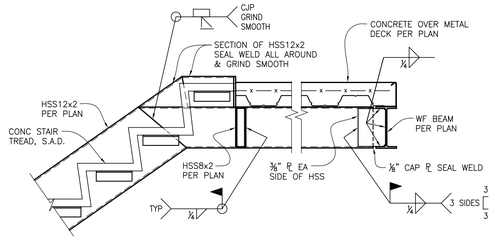
S1.4
TYPICAL DETAILS No.4

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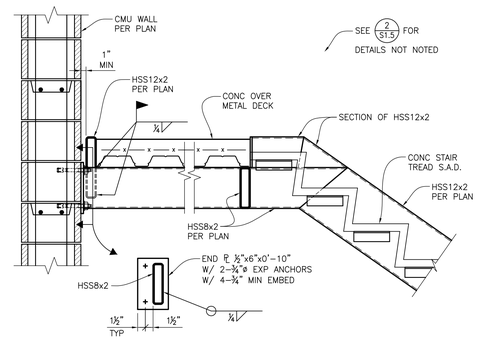
STAIR STRINGER AT BASE DETAIL 1 S1.5

1"=1'-0"



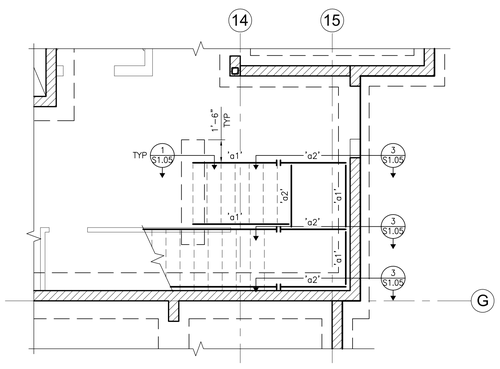
STAIR STRINGER AT LANDING No.1 2 S1.5

1"=1'-0"



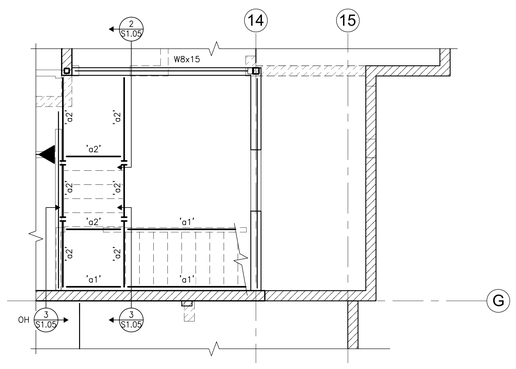
STAIR STRINGER AT LANDING 3 S1.5

1"=1'-0"



ENLARGED STAIR PLAN AT END

¼"=1'-0"



ENLARGED STAIR PLAN AT 2ND FLOOR

¼"=1'-0"

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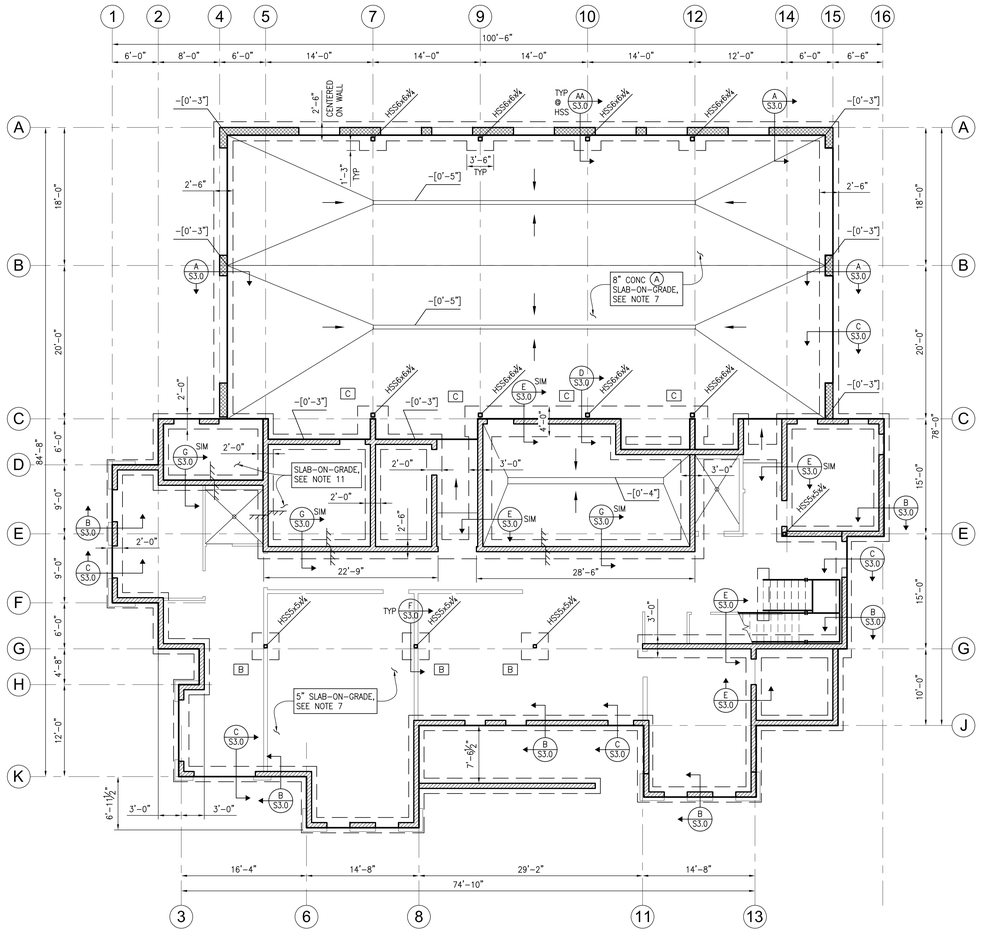
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

S1.5

STAIR DETAILS

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FOUNDATION PLAN

⅛"=1'-0"

FOUNDATION PLAN NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.1.
2. SEE SHEETS S1.1 & S1.2 FOR TYPICAL FOUNDATION DETAILS.
3. TOP OF SLAB & GROUND FLOOR REFERENCE ELEVATION = +[100'-0"] TYP, U.N.O.
4. FOR DETAILED SOILS INFORMATION AND COMPLETE REQUIREMENTS, REFER TO SOILS REPORT.
5. SEE CIVIL DRAWINGS FOR BUILDING PAD PREPARATION, INCLUDING OVER EXCAVATION AND FILL REQUIREMENTS PER THE SOILS REPORT FOR DETAILED SOILS INFORMATION AND COMPLETE REQUIREMENTS, REFER TO SOILS REPORT.
6. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
7. TYPICAL SLAB SECTION AS FOLLOWS:
   - 5" THICK CONCRETE SLAB.
   - #4 @ 18" OC EACH WAY AT 2" BELOW TOP OF SLAB. SUPPORT AT 36" MAX EACH WAY.
   - 2" COMPACTED SAND.
   - SLAB MEMBRANE.
   - 4" OF ¾" CRUSHED ROCK.

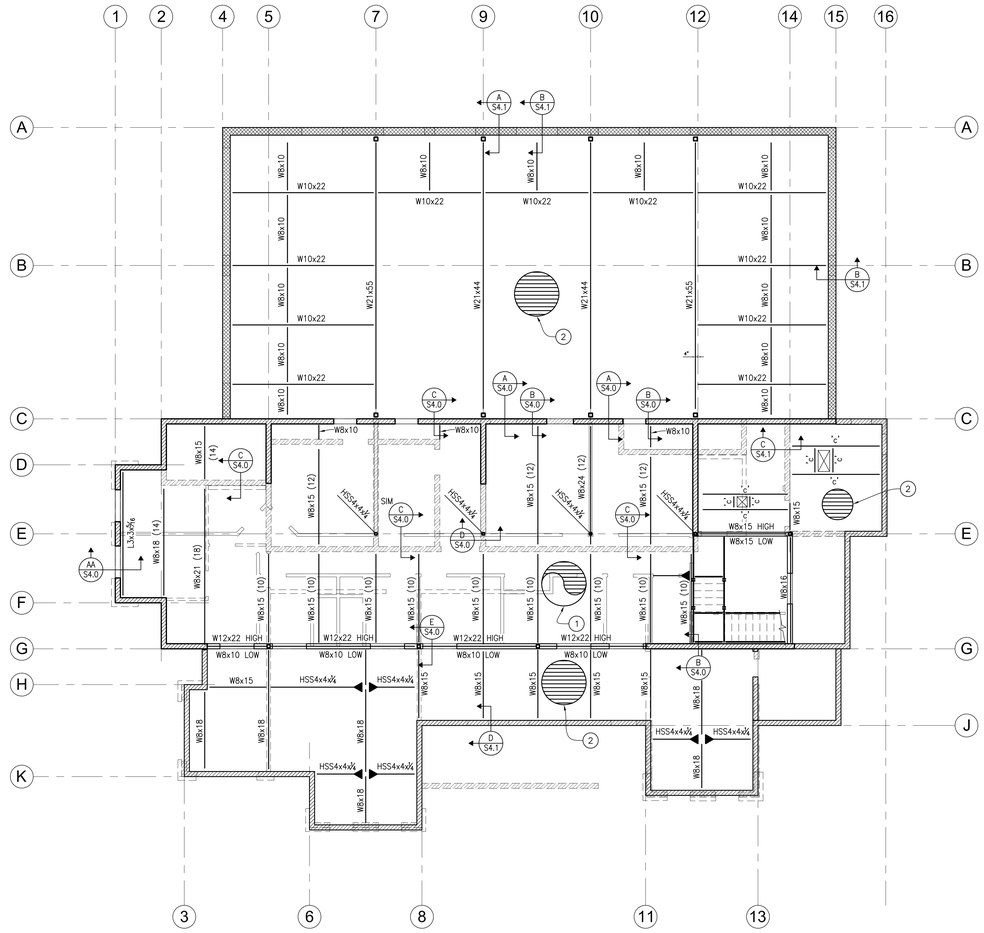
   SLAB SECTION INDICATED (A) AS FOLLOWS:
   - 8" THICK CONCRETE SLAB.
   - #4 @ 18" OC EACH WAY TOP & BOTTOM (BOTTOM MAT 2" CLR TO CRUSHED SAND).
   - 2" COMPACTED SAND.
   - MEMBRANE.
   - 4" OF ¾" CRUSHED ROCK.
8. CONTROL JOINTS ARE TO BE INSTALLED @ 12'-6" OC MAX AS SHOWN.
9. SEE ARCHITECTURAL DRAWINGS FOR CURB LOCATIONS.
10. INDICATES SLAB DEPRESSION.
11. -[0'-2"] INDICATES DEPRESSED SLAB ELEVATION. VERIFY DEPRESSION W/ ARCHITECTURAL, SEE ARCHITECTURAL DRAWINGS FOR LIMITS OF DEPRESSED AREAS.
12. INDICATES FOOTING.
13. [-1'-0"] INDICATES TOP OF FOOTING ELEVATION BELOW TOP OF SLAB ELEV +[100'-0"]. TOP OF FOOTING SHALL BE +[98'-8"] U.N.O.
14. S--------S INDICATES STEP IN FOOTING.
15. [A] INDICATES FOOTING TYPE, SEE SCHEDULE.
16. INDICATES METAL STUD WALL, S.A.D.
17. INDICATES 8" CONCRETE BLOCK WALL.
18. INDICATES 12" CONCRETE BLOCK WALL.
19. 'a1' INDICATES HSS12x2x¼ STAIR STRINGER.
    'a2' INDICATES HSS8x2x¼ STAIR LANDING BEAM.
    SEE SHEET S1.5 FOR STAIR CONSTRUCTION DETAILS.
20. INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT PER (3/S1.2).
21. INDICATES SLOPED SLAB, S.A.D..

FOOTING SCHEDULE

TYPE	SIZE	REINFORCING		REMARKS
		LONGITUDINAL	TRANSVERSE	
[A]	2'-0" x 2'-0" x 1'-6" DEEP	3 - #5	3 - #5	2
[B]	3'-6" x 3'-6" x 1'-6" DEEP	5 - #6	5 - #6	3
[C]	4'-0" x 4'-0" x 1'-6" DEEP	6 - #6	6 - #6	3

NOTES:

1. RUN CONTINUOUS STEEL THROUGH FOOTIING.
2. REINFORCING INDICATES BOTTOM MAT ONLY.
3. REINFORCING INDICATES TOP AND BOTTOM MAT.



SECOND FLOOR & LOW ROOF FRAMING PLANS

⅛"=1'-0"

FLOOR FRAMING NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.1.
2. SEE SHEETS S1.2, S1.3, & S1.4 FOR TYPICAL FRAMING DETAILS.
3. TOP OF STEEL ELEVATION (BOTTOM OF METAL DECK) = +113'-7⅞" W/ RESPECT TO FOUNDATION REFERENCE ELEVATION, TYP U.N.O.
4. SEE ARCH DRAWINGS FOR STAIR LAYOUT AND LANDING ELEVATIONS.
5. CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM ARCHITECT & STRUCTURAL ENGINEER OF ANY DISCREPANCY.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EDGE OF DECK LOCATIONS.
7. SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF DECK PENETRATIONS.
8. INDICATES FRAMED DECK OPENING.
9. (12) INDICATES No. OF WELDED STUDS. ALL BEAMS TO BE COVERED BY CONCRETE FILL SHALL HAVE WELDED STUDS @ 24" OC, U.N.O.
10. C=¾" INDICATES AMOUNT OF POSITIVE CAMBER IN BEAM.
11. INDICATES METAL STUD WALL, S.A.D.
12. INDICATES 8" CONCRETE BLOCK WALL.
13. INDICATES 8" CONCRETE BLOCK WALL BELOW.
14. INDICATES 12" CONCRETE BLOCK WALL.
15. INDICATES 12" CONCRETE BLOCK WALL BELOW.
16. (1) INDICATES 2¾" LIGHTWEIGHT CONCRETE TOPPING OVER 2" METAL DECK TYPE 1.
17. (2) INDICATES 3" METAL DECK TYPE 3.
18. 'a1' INDICATES HSS12x2x¼ STAIR STRINGER.
    'a2' INDICATES HSS8x2x¼ STAIR LANDING BEAM.
    SEE SHEET S1.5 FOR STAIR CONSTRUCTION DETAILS.
19. 'c' INDICATES C8x11.5.
20. CJ INDICATES APPROXIMATE LOCATION OF WALL CONTROL JOINT PER (3/S1.2).

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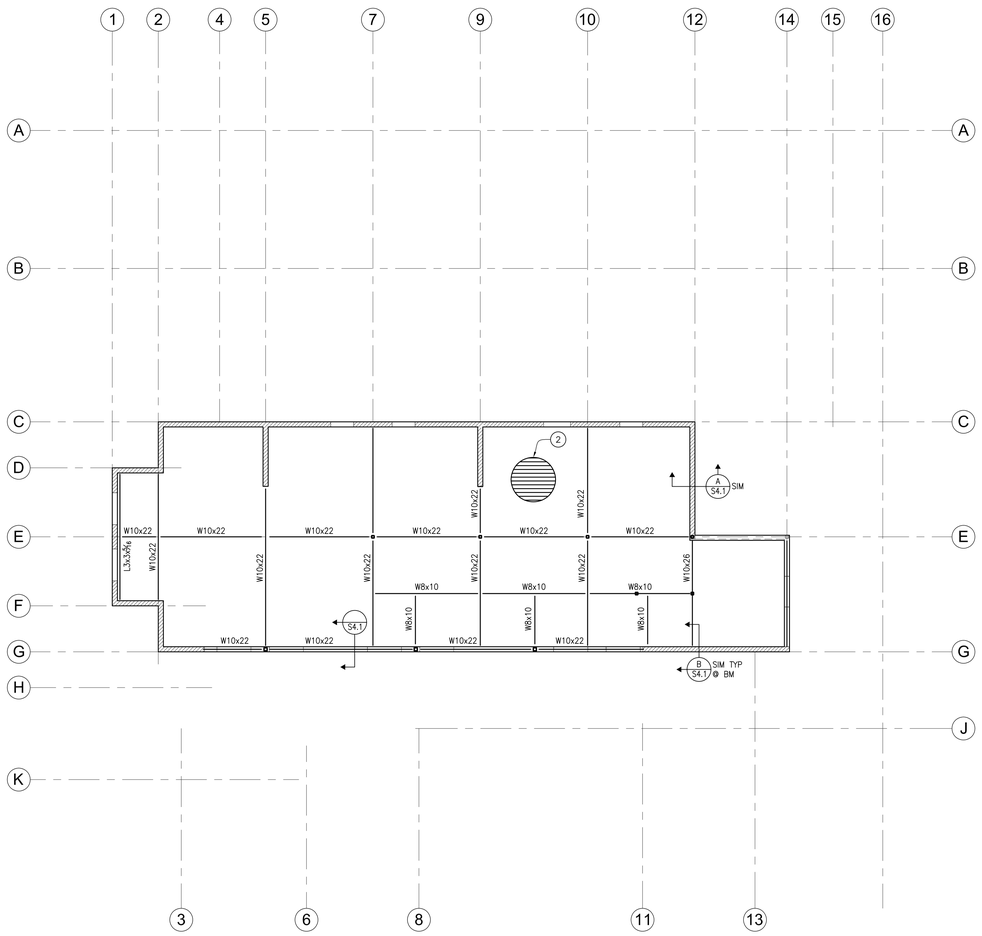
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ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVE.
ALAMEDA, CA 94501

No.	Description	Date

S2.0

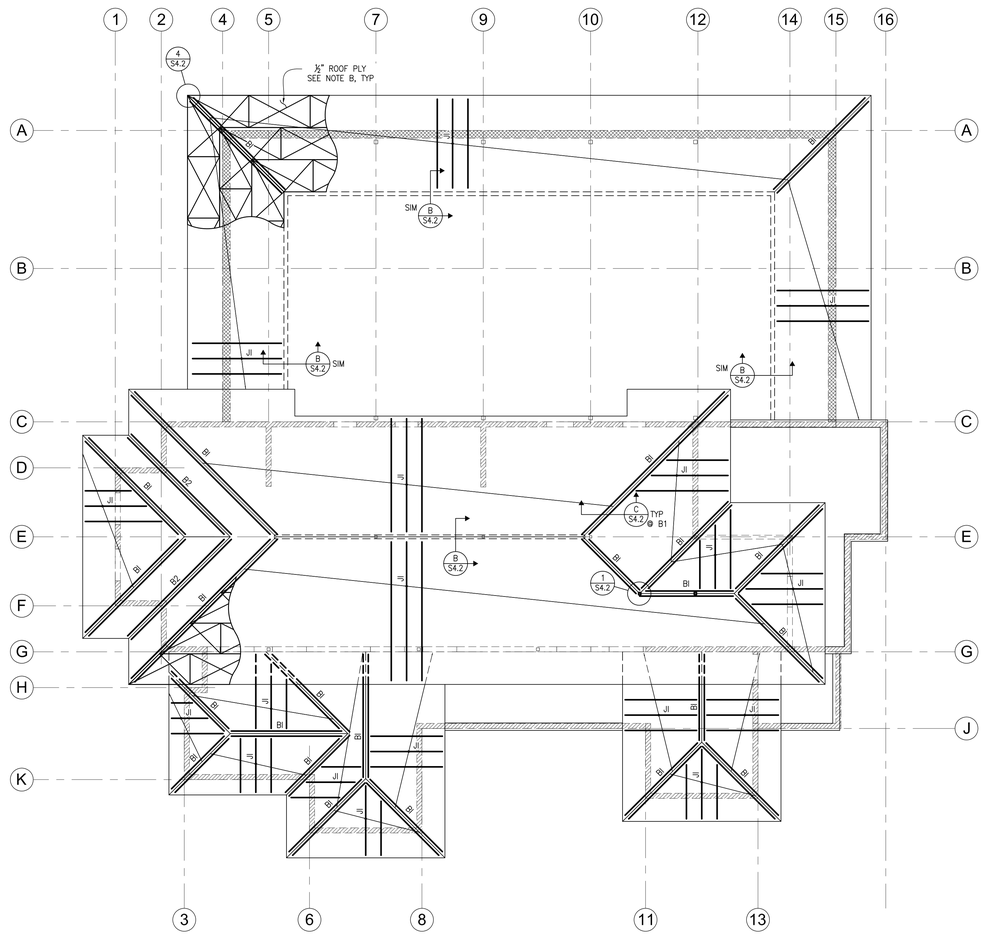
FOUNDATION, SECOND FLOOR & LOW ROOF FRAMING PLANS

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HIGH ROOF FRAMING PLAN

⅛"=1'-0"



SLOPED ROOF FRAMING PLAN

⅛"=1'-0"

ROOF FRAMING PLAN NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.1.
2. SEE SHEETS S1.3 & S1.4 FOR TYPICAL FRAMING DETAILS.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM ARCHITECT & STRUCTURAL ENGINEER OF ANY DISCREPANCY.
4. SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF DECK PENETRATIONS.
5. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES TYP, UNO.
6. THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMMEDIATELY.
7. HIGH ROOF TOP OF STEEL ELEVATION (BOTTOM OF METAL DECK) = +24'-9½" & LOW ROOF TOP OF STEEL ELEVATION (BOTTOM OF METAL DECK) = +19'-1½" W/ RESPECT TO FOUNDATION REFERENCE ELEVATION, TYP U.N.O.
8. C=¾" INDICATES AMOUNT OF POSITIVE CAMBER.
9. INDICATES HSS4x4x⅜ DIAGONAL BRACE BELOW (ARROW TOWARDS LOW SIDE).
10. INDICATES 8" CONCRETE BLOCK WALL BELOW.
11. INDICATES 12" CONCRETE BLOCK WALL BELOW.
12. INDICATES 6" METAL STUD PONY WALL.
13. (2) INDICATES 3" METAL DECK TYPE 2.
14. SEE (8/S1.4) FOR ELEVATOR RAIL SUPPORT POST CONNECTION @ ROOF.

ROOF FRAMING PLAN NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.1.
2. SEE SHEETS S1.3 & S1.4 FOR TYPICAL FRAMING DETAILS.
3. SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM ARCHITECT & STRUCTURAL ENGINEER OF ANY DISCREPANCY.
5. SEE ARCHITECTURAL DRAWINGS FOR EDGE OF ROOF LOCATIONS.
6. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES TYP, UNO.
7. THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMMEDIATELY.
8. ROOF PLYWOOD SHALL CONSIST OF ½" CDX PLYWOOD W/ No.10 SMS @ 6" OC AT BOUNDARIES AND EDGES, No.10 SMS @ 12" OC FIELD NAILING.
9. SEE ARCH DRAWINGS FOR ROOF ELEVATIONS.
10. INDICATES DIRECTION OF ROOF SLOPE.
11. INDICATES 8" CONCRETE BLOCK WALL BELOW.
12. INDICATES 12" CONCRETE BLOCK WALL BELOW.
13. B1 INDICATES 2-800S200-54 HIP BEAM.
14. J1 INDICATES 800S162-54 JOIST @ 24" OC.

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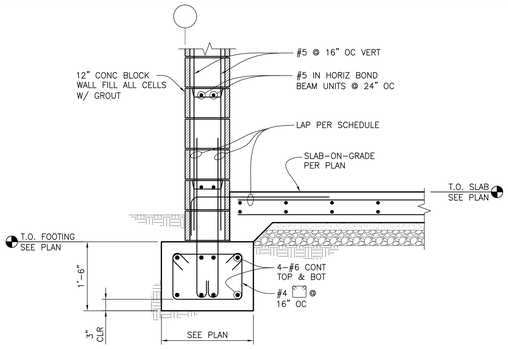
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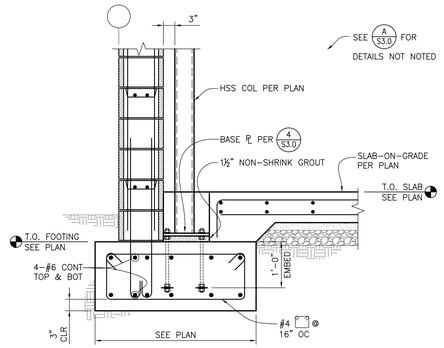
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HIGH ROOF & SLOPED ROOF FRAMING PLANS

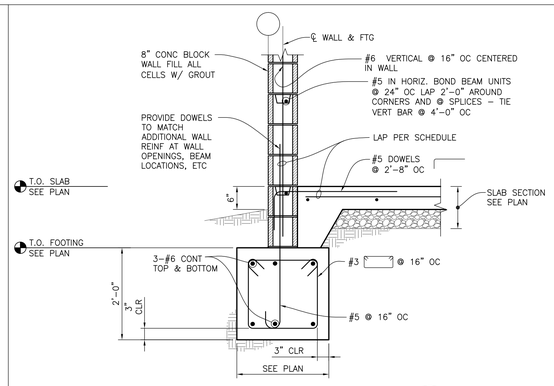
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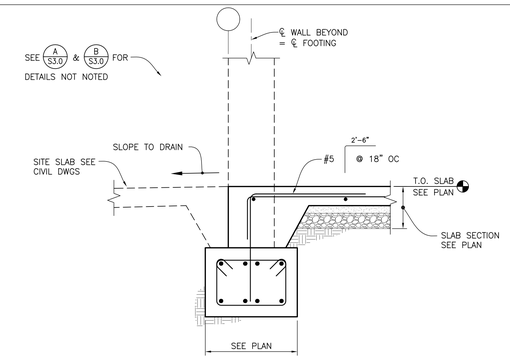
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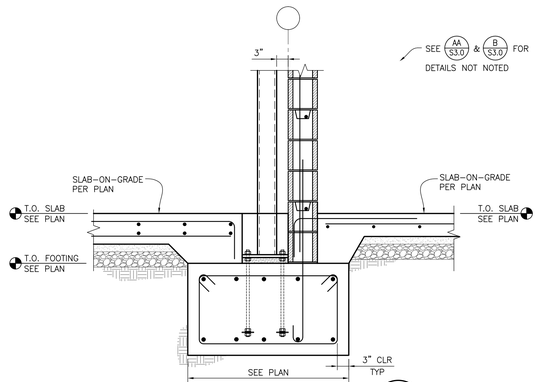
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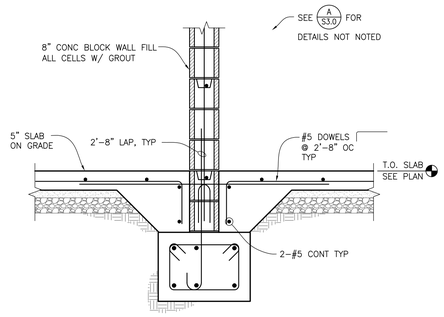
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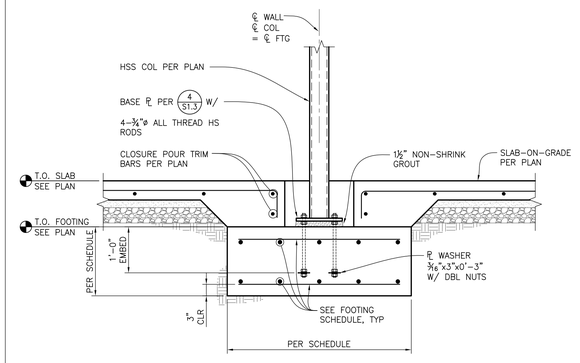
SECTION C S3.0
3/4"=1'-0"



SECTION D S3.0
3/4"=1'-0"



SECTION E S3.0
3/4"=1'-0"



SECTION F S3.0
3/4"=1'-0"

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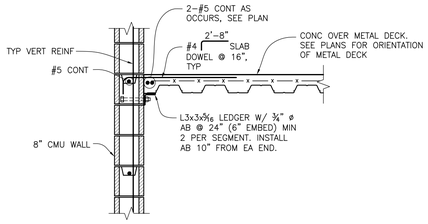
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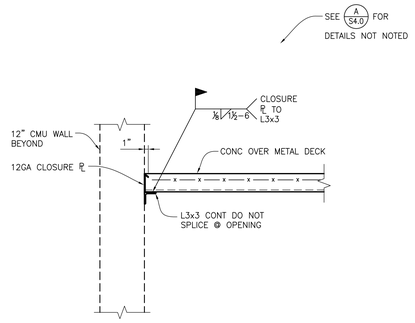
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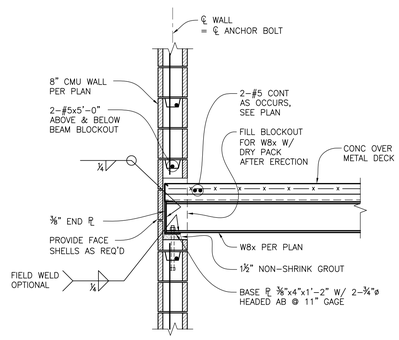
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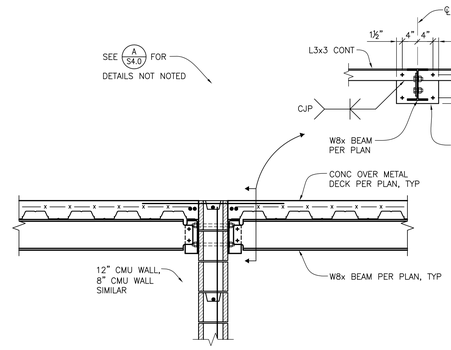
SECTION A / S4.0
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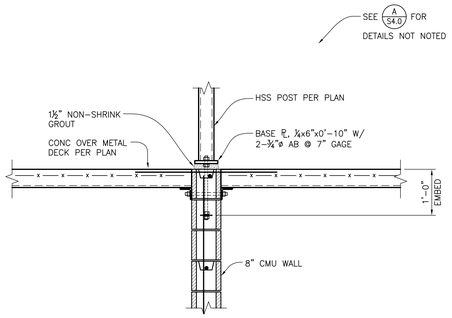
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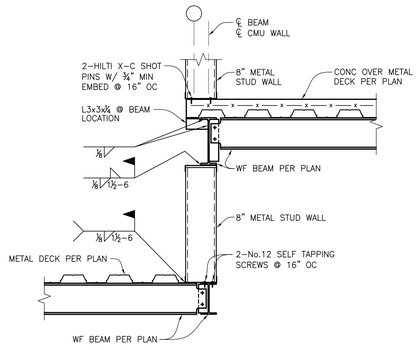
SECTION B / S4.0
3/4"=1'–0"



SECTION C / S4.0
3/4"=1'–0"



SECTION D / S4.0
3/4"=1'–0"



SECTION E / S4.0
3/4"=1'–0"

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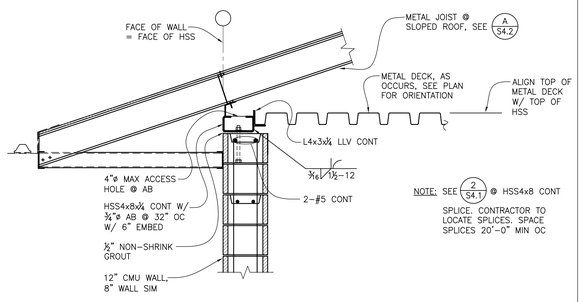
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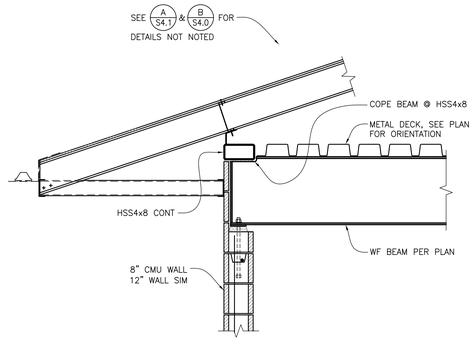
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FRAMING DETAILS No.1

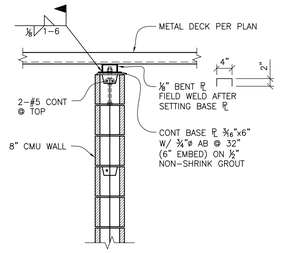
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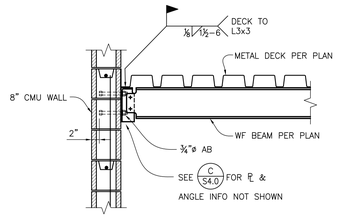
SECTION A S4.1
3/4"=1'–0"



SECTION B S4.1
3/4"=1'–0"



SECTION C S4.1
3/4"=1'–0"



SECTION D S4.1
3/4"=1'–0"

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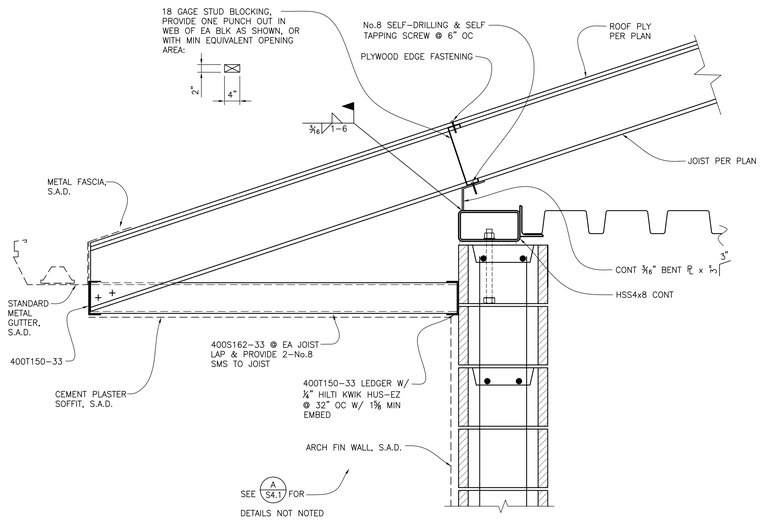
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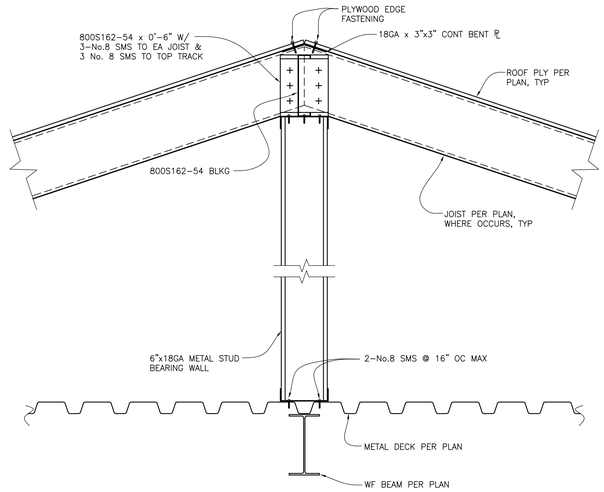
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FRAMING DETAILS No.2

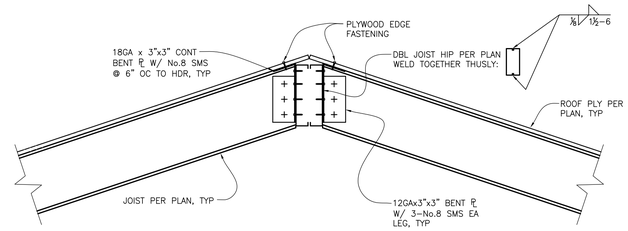
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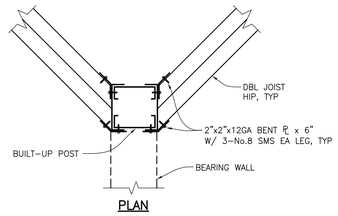
SECTION A — S4.2
1 1/2"=1'-0"



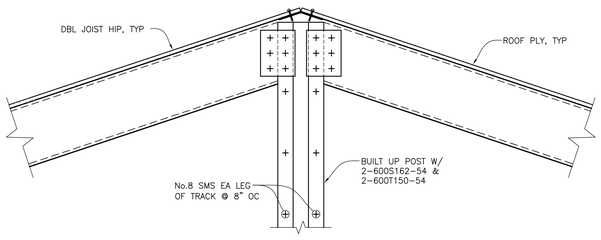
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1 1/2"=1'-0"



SECTION C — S4.2
1 1/2"=1'-0"

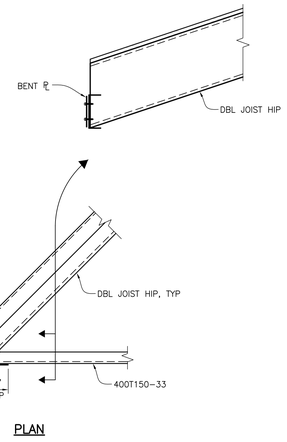


PLAN



ELEVATION

DETAIL 1 — S4.2
1 1/2"=1'-0"



PLAN

DETAIL 4 — S4.2
1 1/2"=1'-0"

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PROJECT NO. 02-3114
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ALAMEDA, CA 94501

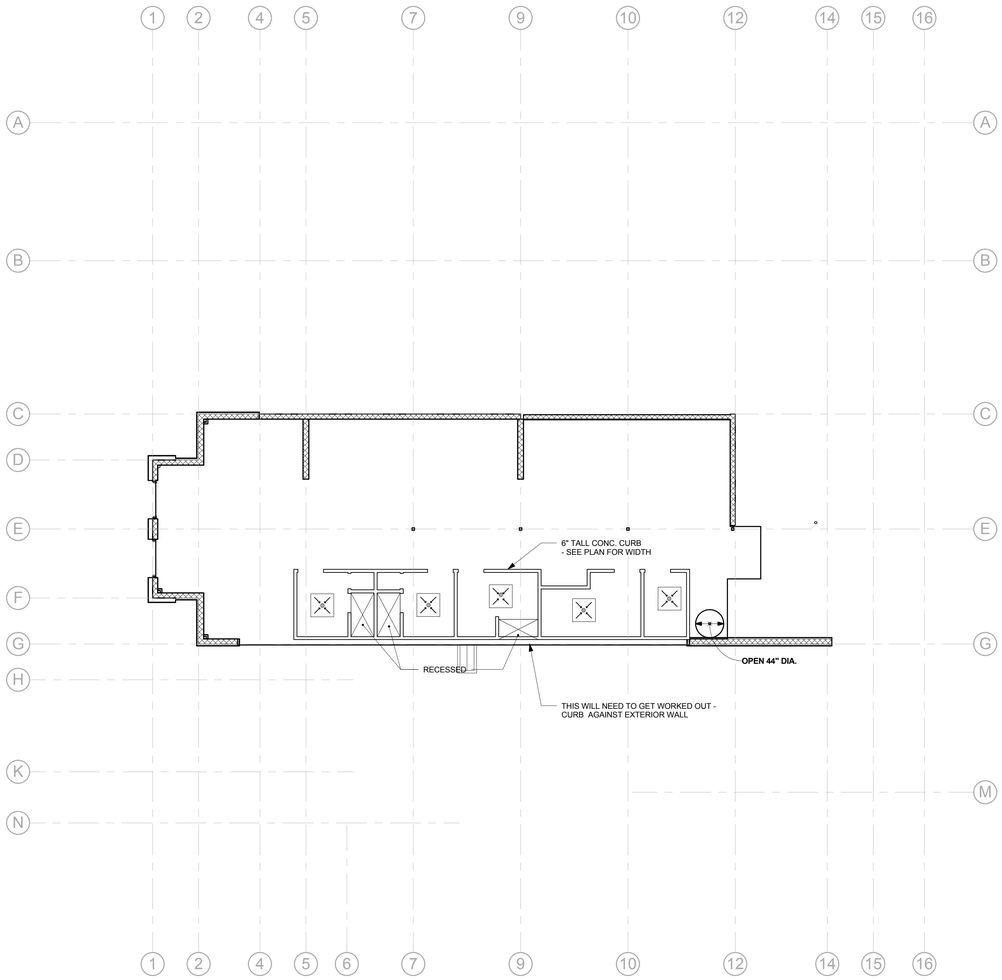
No.	Description	Date

S4.2

FRAMING DETAILS No.3

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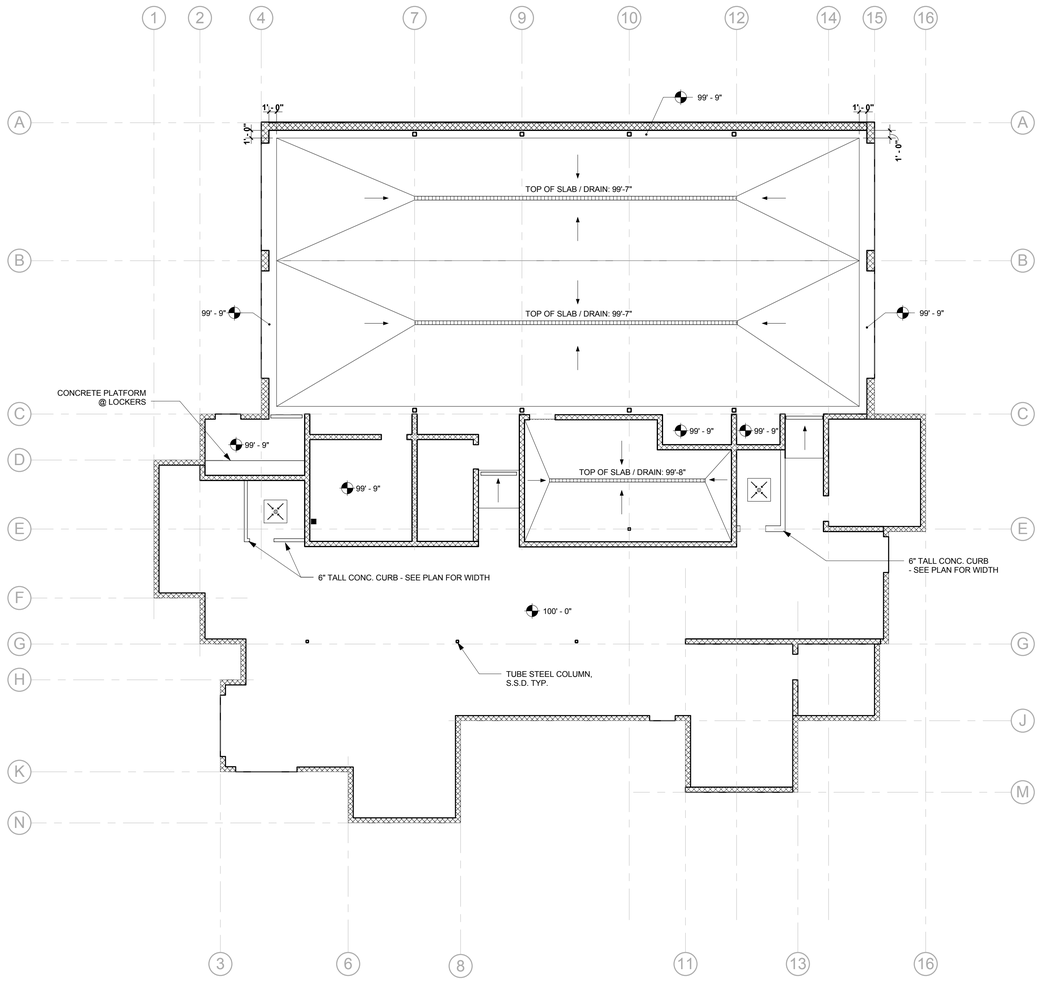
KEYNOTES



PLAN NORTH

2 SECOND FLOOR SLAB PLAN

1/8" = 1'-0"



PLAN NORTH

1 FIRST FLOOR SLAB PLAN

1/8" = 1'-0"

LEGEND

- FLOOR SINK
- FLOOR DRAIN
- TRENCH DRAIN
- CMU WALL

NOT FOR CONSTRUCTION

LICENSED ARCHITECT — C-17552 — STATE OF CALIFORNIA

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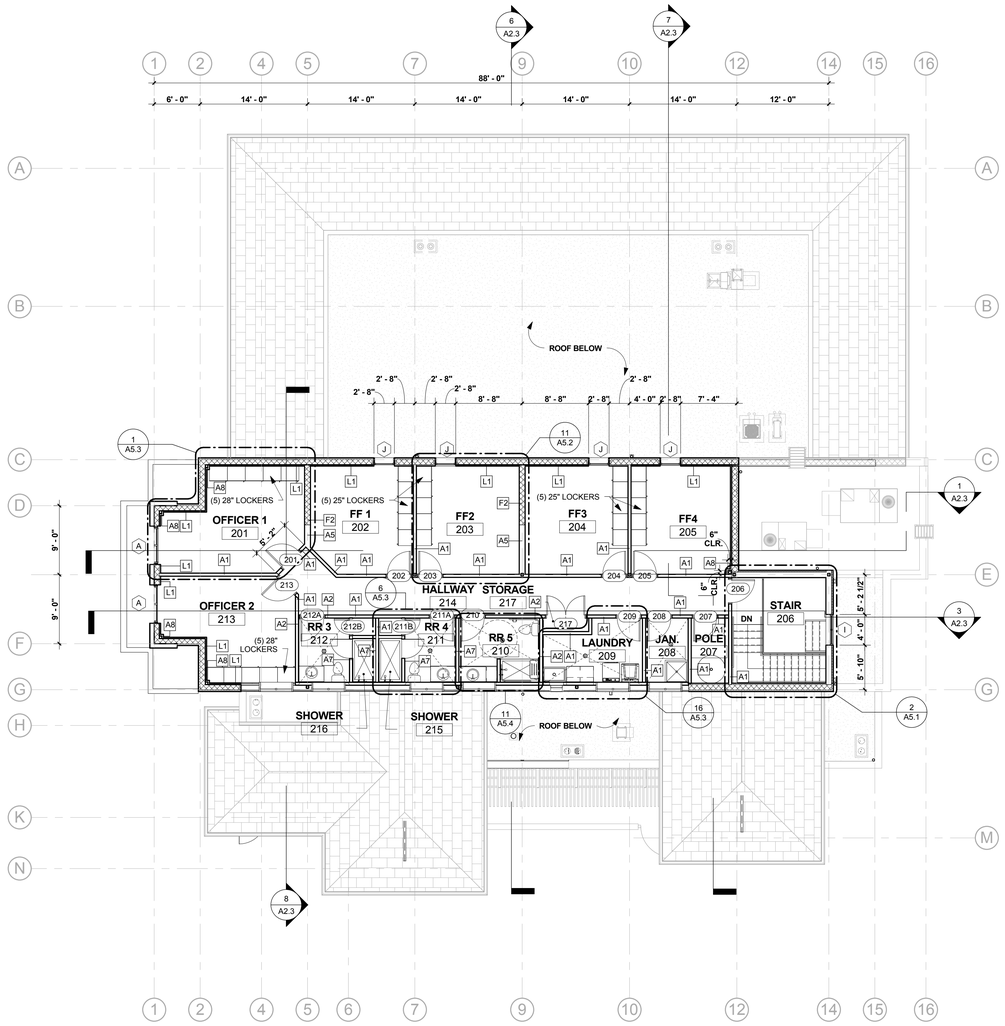
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ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

A1.0

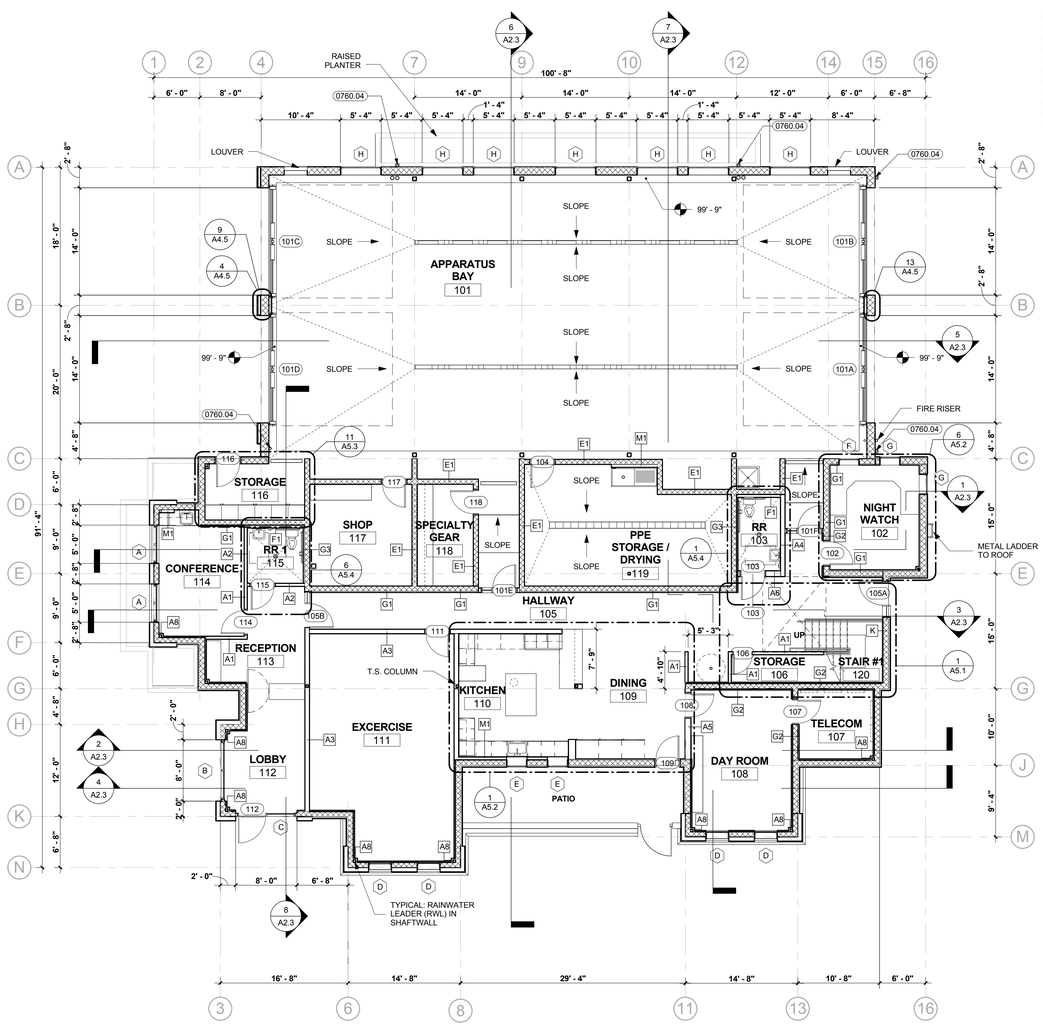
FIRST AND SECOND FLOOR SLAB PLAN



2 SECOND FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH



1 FIRST FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH

KEYNOTES

0360.03	FILL WITH GROUT
0420.14	8" CONCRETE MASONRY UNITS
0760.04	6" PREFINISHED METAL DOWNSPOUT
0920.01	1 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.04	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.05	4" METAL STUDS AT 16" O.C.
0920.07	6" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.10	7/8" FURRING CHANNEL AT 16" O.C.
0920.26	5/8" CEMENTITIOUS BACKER BOARD
0920.28	5/8" GYPSUM BOARD (TYPE X)
0980.03	3 1/2" FIBERGLASS SOUND ATTENUATION INSULATION

K SERIES
NONCOMBUSTIBLE
NO FIRE RATING AVAILABLE
0920.10
0920.28
0920.26 @ WALL TILE

PLAN VIEW

PTN TYPE	STUD	PART WIDTH	PART HEIGHT	W/O INSUL	W/ INSUL	NOTES
L1	1 1/2" AT 16" O.C.	1 1/2"	TO DECK	N/A	N/A	ONE SIDE OF GYP. BD. O/ FURRING @ EXTERIOR WALL

NOTES:

1. EXTEND GYPSUM BOARD 3" ABOVE ACOUSTIC CEILING TILE OR STOP AT GYPSUM BOARD CEILING UNLESS NOTED OTHERWISE (ACOUSTIC INSULATION REQUIREMENTS DO NOT APPLY UNLESS INDICATED ABOVE)
2. ALL C.I.P. CONCRETE COLUMNS TO RECEIVE PTN TYPE L2, U.N.O.

G SERIES
NON COMBUSTIBLE
LIGHT WEIGHT CONCRETE BLOCK
0920.28
0420.14
0920.01
0360.03 (RE: STRUCTURAL)
0920.26 @ WALL TILE

PLAN VIEW

PTN TYPE	CMU	PART WIDTH	PART HEIGHT	STC W/O INSUL	STC W/ INSUL	NOTES
G1	8" CMU	9 3/4"	TO DECK			ONE SIDE OF GYP. BOARD O/ FURRING
G2	8" CMU	11 7/8"	TO DECK			BOTH SIDE OF GYP. BOARD O/ FURRING
G3	8" CMU	10 3/8"	TO DECK			TILE ON ONE SIDE @ G1

F SERIES
NON COMBUSTIBLE
LIGHT WEIGHT CONCRETE BLOCK
0420.14
0920.05
0920.28
0920.26 @ WALL TILE
0360.03

PLAN VIEW

PTN TYPE	CMU	PART WIDTH	PART HEIGHT	STC W/O INSUL	STC W/ INSUL	(RE: STRUCTURAL) NOTES
F1	8" CMU	12 1/4"	TO DECK			ONE SIDE OF TILE O/ GYP. BOARD O/ 3 5/8" METAL STUD

E SERIES
NON COMBUSTIBLE
LIGHT WEIGHT CONCRETE BLOCK
0420.14
0360.03

PLAN VIEW

PTN TYPE	CMU	PART WIDTH	PART HEIGHT	STC W/O INSUL	STC W/ INSUL	NOTES
E1	8" CMU	7 5/8"	TO DECK			

A SERIES
NONCOMBUSTIBLE
AVAILABLE FIRE RESISTANCE: 1 HOUR
0980.03
0920.05
0920.04
0920.07
0920.28
0920.26 @ WALL TILE

PLAN VIEW

PTN TYPE	STUD	PART WIDTH	PART HEIGHT	STC W/O INSUL	STC W/ INSUL	NOTES
A1	3 5/8" AT 16" O.C.	4 7/8"	TO DECK		40	BOTH SIDE OF GYP. BOARD
A2	3 5/8" AT 16" O.C.	5 1/2"	TO DECK		40	ONE SIDE OF TILE @ A1
A3	6" AT 16" O.C.	7 1/4"	TO DECK		40	BOTH SIDE OF GYP. BOARD
A4	6" AT 16" O.C.	7 7/8"	TO DECK		40	ONE SIDE OF TILE @ A3
A5	8" AT 16" O.C.	9 1/4"	TO DECK		40	BOTH SIDE OF GYP. BOARD
A6	8" AT 16" O.C.	9 7/8"	TO DECK		40	ONE SIDE OF TILE @ A5
A7	3 5/8" AT 16" O.C.	8 1/8"	TO DECK		40	BOTH SIDE OF TILE @ A1
A8	2" AT 16" O.C.	2 5/8"	TO DECK		40	GYP. BOARD ONE SIDE ONLY

M SERIES
NONCOMBUSTIBLE
NO FIRE RATING AVAILABLE
1/2"
PARTITION WIDTH (SEE BELOW)
0980.03
0920.05
0920.07
0920.28
0920.26 @ WALL TILE

PLAN VIEW

PTN TYPE	STUD	PART WIDTH	PART HEIGHT	W/O INSUL	W/ INSUL	NOTES
M1	4" AT 16" O.C.	4 1/4"	TO DECK	N/A	N/A	ONE SIDE OF GYP. BD. O/ 3 5/8" METAL STUD @ EXTERIOR WALL

1. EXTEND GYPSUM BOARD 4" ABOVE ACOUSTIC CEILING TILE OR STOP AT GYPSUM BOARD CEILING UNLESS NOTED OTHERWISE (ACOUSTIC INSULATION REQUIREMENTS DO NOT APPLY UNLESS INDICATED ABOVE)

L SERIES
NONCOMBUSTIBLE
NO FIRE RATING AVAILABLE
0920.01
0920.28
0920.26 @ WALL TILE

PLAN VIEW

PTN TYPE	STUD	PART WIDTH	PART HEIGHT	W/O INSUL	W/ INSUL	NOTES
L1	1 1/2" AT 16" O.C.	1 1/2"	TO DECK	N/A	N/A	ONE SIDE OF GYP. BD. O/ FURRING @ EXTERIOR WALL

NOTES:

1. EXTEND GYPSUM BOARD 3" ABOVE ACOUSTIC CEILING TILE OR STOP AT GYPSUM BOARD CEILING UNLESS NOTED OTHERWISE (ACOUSTIC INSULATION REQUIREMENTS DO NOT APPLY UNLESS INDICATED ABOVE)
2. ALL C.I.P. CONCRETE COLUMNS TO RECEIVE PTN TYPE L2, U.N.O.

PARTITION TYPE NOTES

NOT TO SCALE

A. PARTITIONS SHALL BE TYPE "A1" UNLESS OTHERWISE NOTED.

B. ALL ELEMENTS OF ACOUSTIC RATED PARTITIONS SHALL EXTEND TO ROOF OR FLOOR DECK ABOVE AND ALL JOINTS AND PENETRATIONS OF ACOUSTIC RATED PARTITIONS SHALL BE FILLED AND SEALED.

C. PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.

D. WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH.

E. INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT/MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS.

F. PROVIDE CEMENTITIOUS BACKER BOARD AT AREAS THAT ARE SCHEDULED TO RECEIVE CERAMIC TILE FINISH AND AT AREAS SO REQUIRED BY CODE.

G. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.

H. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE NOMINAL FINISH FACE OF GYPSUM BOARD.

J. WHERE PARTITIONS AND/OR FURRING MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE THE FINISH IS STRAIGHT OR CONTINUOUS UNLESS OTHERWISE NOTED.

L. PROVIDE STUD BRACING AT 4' - 0" O.C. STAGGERED IN ALTERNATING DIRECTIONS. BRACING SHALL ATTACH TO STUDS 1' - 0" MAX. ABOVE CEILING.

NOT FOR CONSTRUCTION

LICENSED ARCHITECT — EDWARD REYNOLDS WATFORD — C-17552 — STATE OF CALIFORNIA

BROWN REYNOLDS WATFORD ARCHITECTS
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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

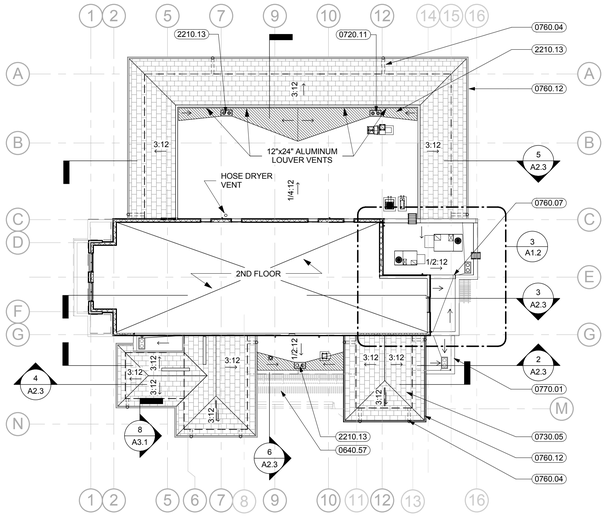
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A1.1

FIRST AND SECOND FLOOR PLANS

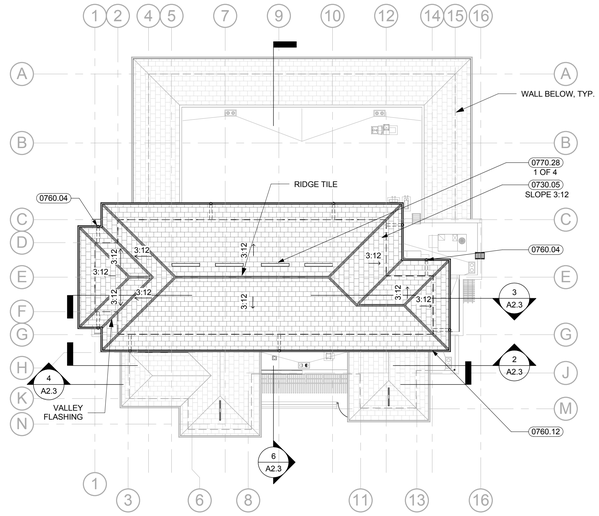
KEYNOTES

0550.34	METAL SHIPS LADDER
0640.57	WOOD TRELLIS
0720.11	TAPERED INSULATION CRICKET
0730.05	CONCRETE FLAT ROOF TILES
0760.04	6" PREFINISHED METAL DOWNSPOUT
0760.07	HOT-DIPPED GALVANIZED METAL OVERFLOW SCUPPER (8" H X 12" W CLEAR) WITH PREFINISHED METAL FACING
0760.12	PREFINISHED METAL CANOPY GUTTER / FASCIA
0770.01	PREFINISHED METAL COPING SYSTEM
0770.18	CONCRETE SPLASH BLOCK
0770.28	ROOF VENT
2210.13	ROOF DRAIN / OVERFLOW ROOF DRAIN



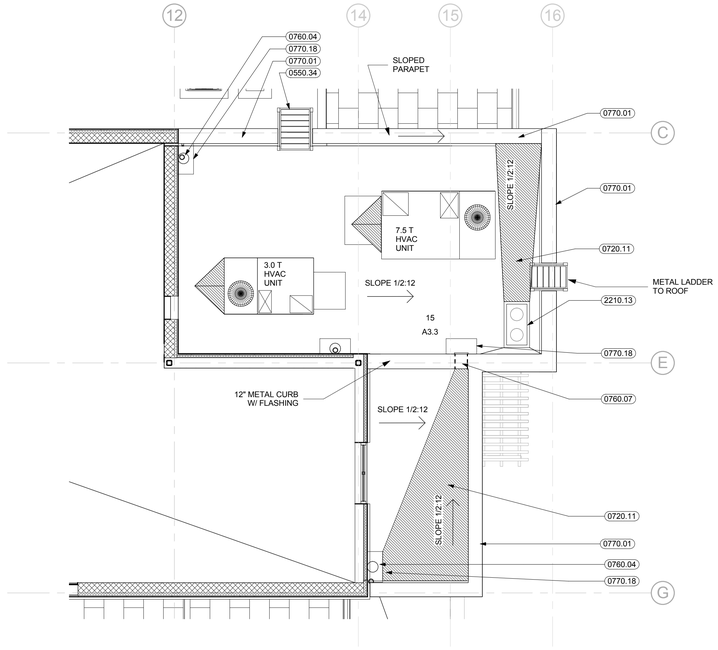
2 LOW ROOF PLAN
1/16" = 1'-0"

PLAN NORTH



1 HIGH ROOF PLAN
1/16" = 1'-0"

PLAN NORTH



3 ENLARGED LOW ROOF PLAN
1/4" = 1'-0"

PLAN NORTH

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LICENSED ARCHITECT EDWARD REYNOLDS WATFORD C-17552 STATE OF CALIFORNIA

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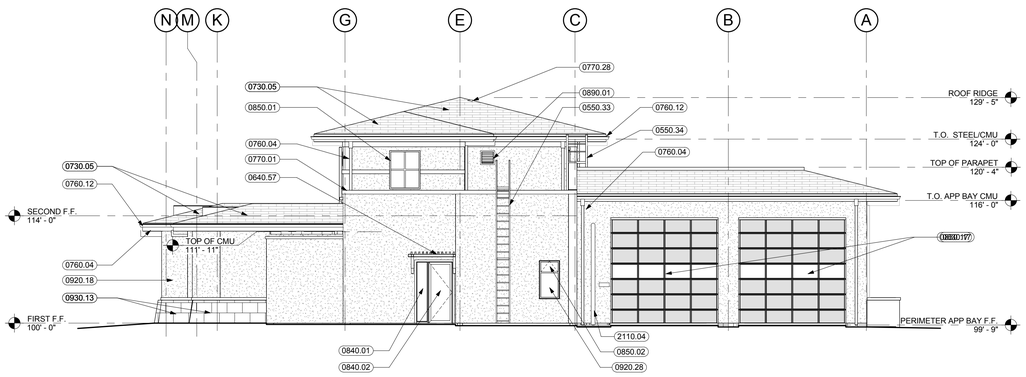
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

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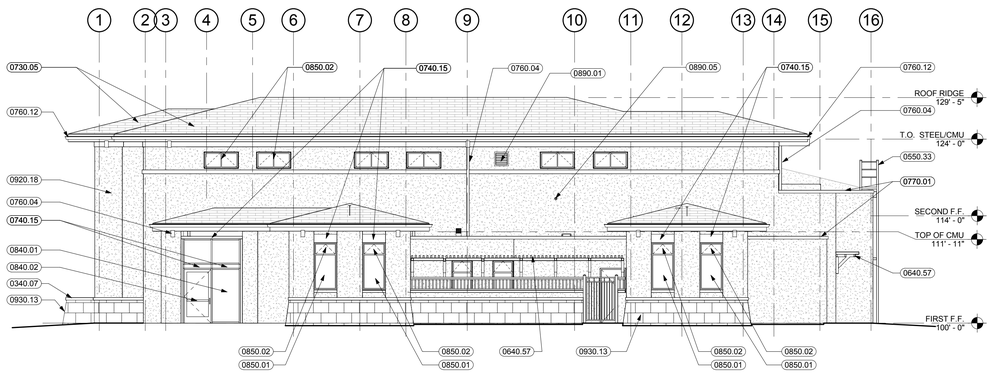
A1.2

ROOF PLAN AND DETAILS



2 EXTERIOR ELEVATION (EAST)

1/8" = 1'-0"



1 EXTERIOR ELEVATION (SOUTH)

1/8" = 1'-0"

4 EXTERIOR ELEVATION (WEST)

1/8" = 1'-0"

3 EXTERIOR ELEVATION (NORTH)

1/8" = 1'-0"

KEYNOTES

0340.07	PRECAST CONC. CAP - THINSET O/ CONCRETE WALL
0550.33	METAL LADDER
0550.34	METAL SHIPS LADDER
0640.57	WOOD TRELLIS
0730.05	CONCRETE FLAT ROOF TILES
0740.15	PREFINISHED ALUMINUM COMPOSITE PANEL SYSTEM
0760.04	6" PREFINISHED METAL DOWNSPOUT
0760.12	PREFINISHED METAL CANOPY GUTTER / FASCIA
0770.01	PREFINISHED METAL COPING SYSTEM
0770.28	ROOF VENT
0830.17	SECTIONAL DOOR
0840.01	ALUMINUM STOREFRONT
0840.02	ALUMINUM STOREFRONT DOOR
0850.01	FIXED ALUMINUM WINDOW
0850.02	OPERABLE ALUMINUM WINDOW
0890.01	PREFINISHED FIXED ALUMINUM LOUVER (WITH INSECT SCREEN)
0890.05	CLOTHES DRYER VENT WITH FLAP
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.28	5/8" GYPSUM BOARD (TYPE X)
0930.11	PORCELAIN TILE VENEER THINSET ON PLASTER SCRATCH & BROWN COAT
0930.13	PORCELAIN TILE VENEER THINSET ON CONCRETE WALL
2110.04	FIRE SPRINKLER RISER

LICENSED ARCHITECT
ROBERT E. WATFORD
C-17552
EXP. 11/30/15
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

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PROJECT NO. 02.3114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

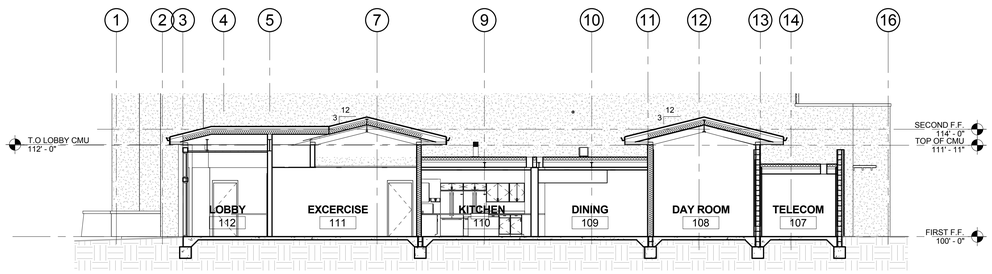
No.	Description	Date

A2.1

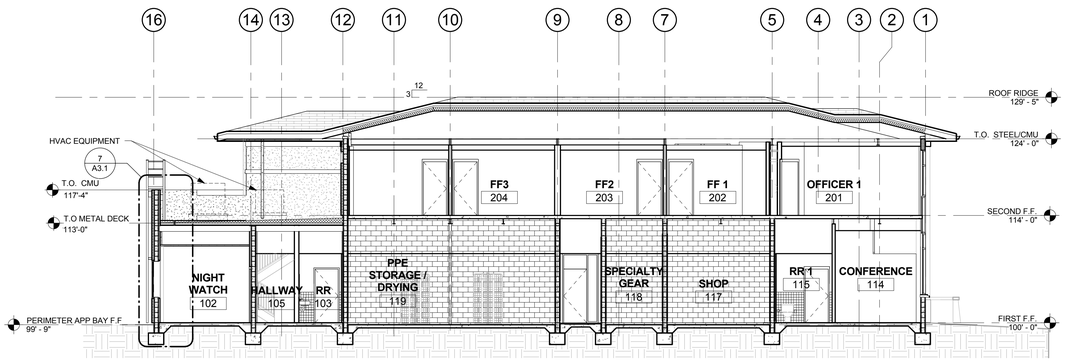
EXTERIOR ELEVATIONS

KEYNOTES

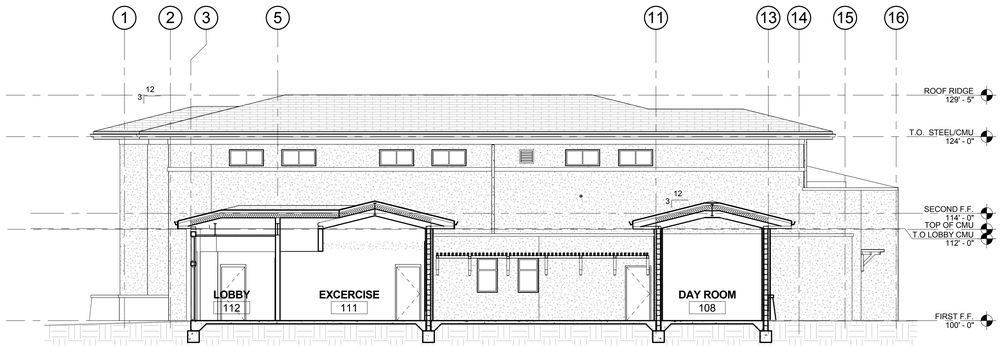
0730.05	CONCRETE FLAT ROOF TILES
0760.12	PREFINISHED METAL CANOPY GUTTER / FASCIA
2330.01	HVAC DUCTWORK



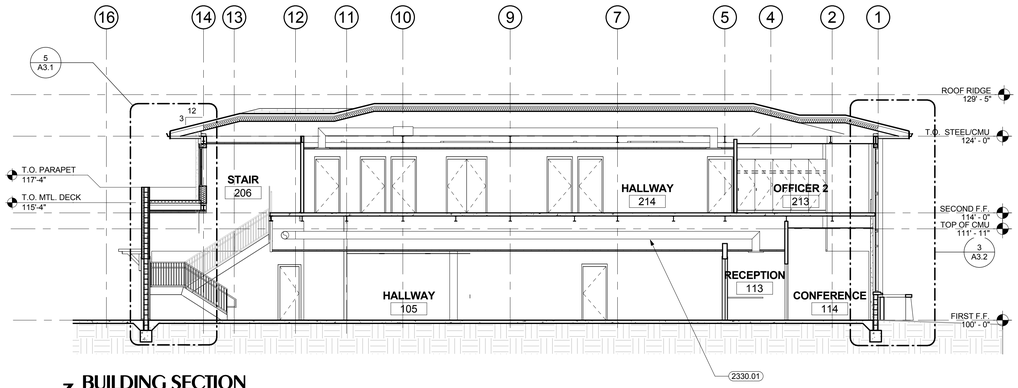
2 BUILDING SECTION
1/8" = 1'-0"



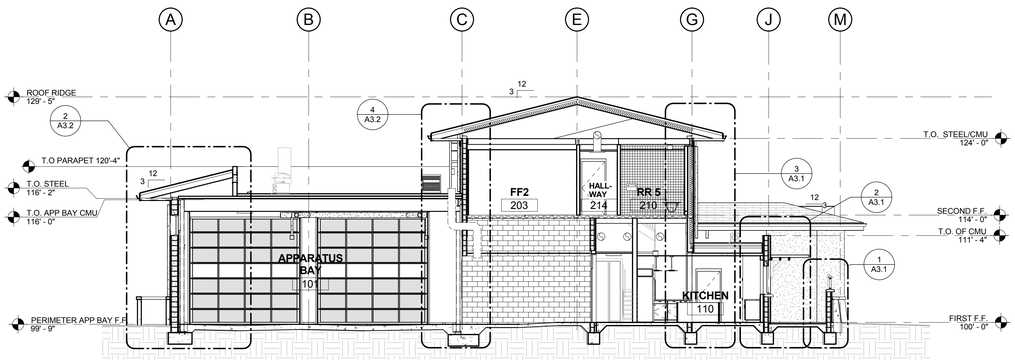
1 BUILDING SECTION
1/8" = 1'-0"



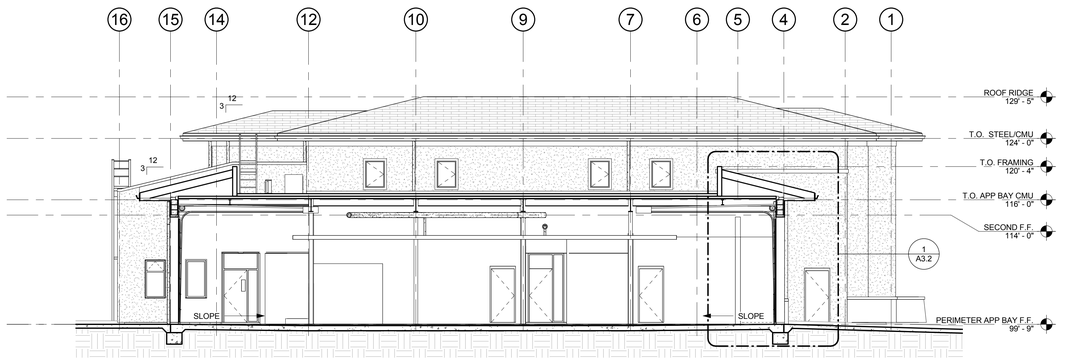
4 BUILDING SECTION
1/8" = 1'-0"



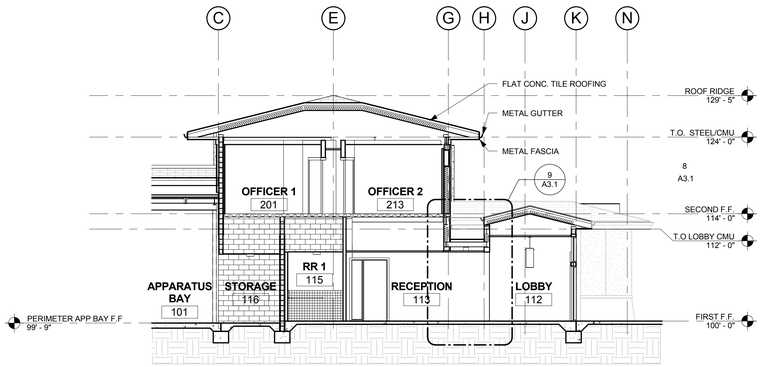
3 BUILDING SECTION
1/8" = 1'-0"



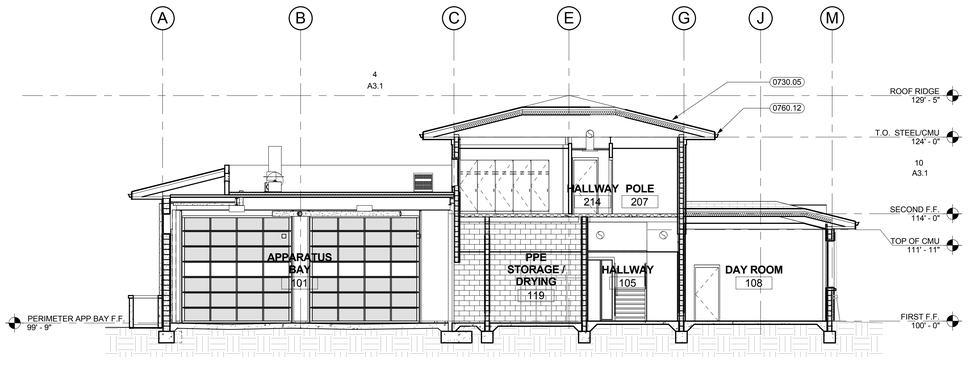
6 BUILDING SECTION
1/8" = 1'-0"



5 BUILDING SECTION
1/8" = 1'-0"



8 BUILDING SECTION
1/8" = 1'-0"



7 BUILDING SECTION
1/8" = 1'-0"

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LICENSED ARCHITECT — C-17552 — STATE OF CALIFORNIA

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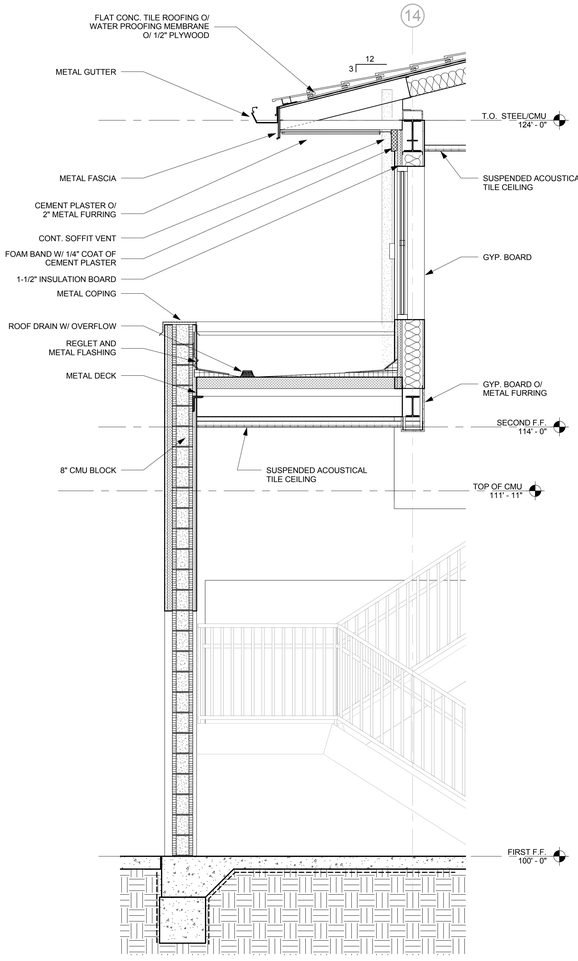
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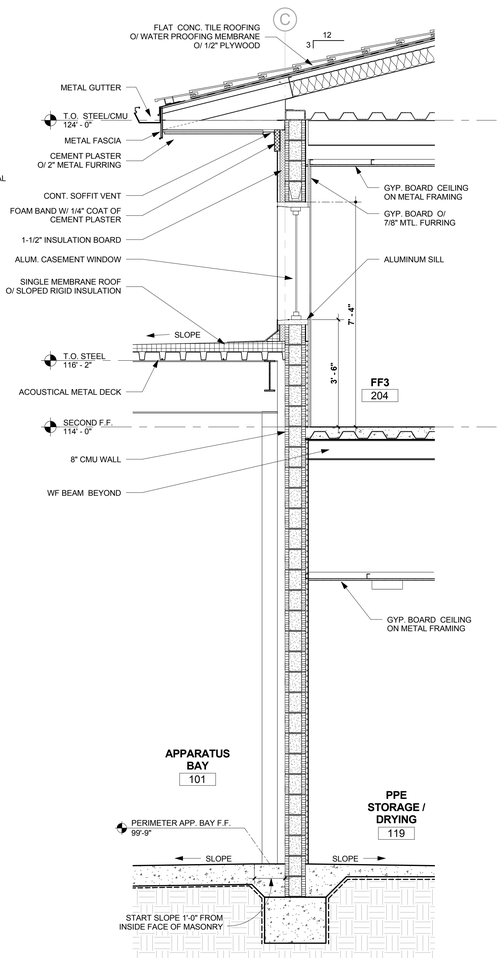
A2.3

BUILDING SECTIONS

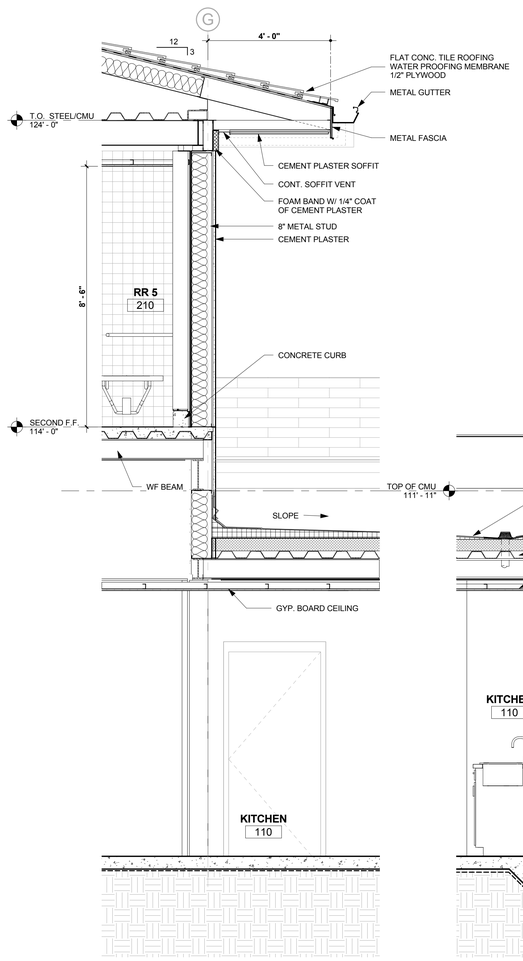
KEYNOTES



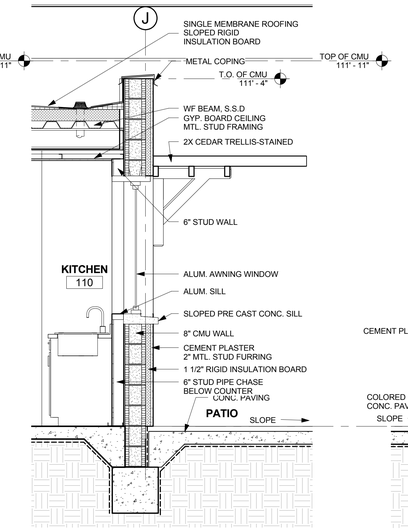
5 **WALL SECTION**
1/2" = 1'-0"



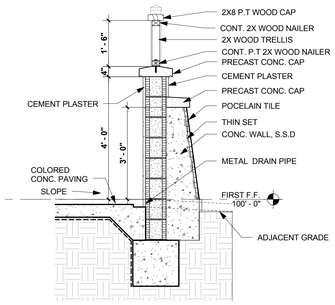
4 **WALL SECTION**
1/2" = 1'-0"



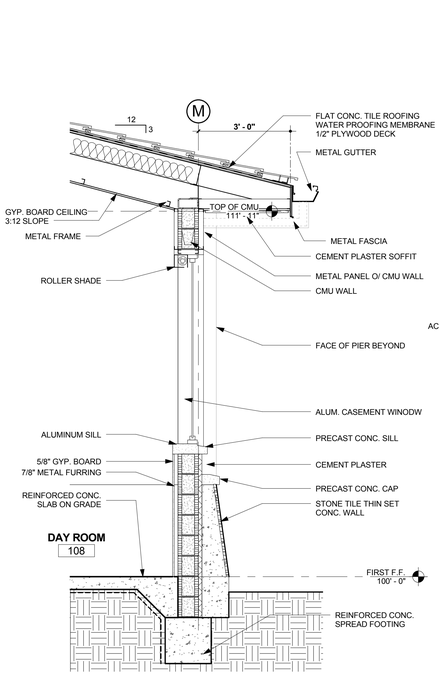
3 **WALL SECTION**
1/2" = 1'-0"



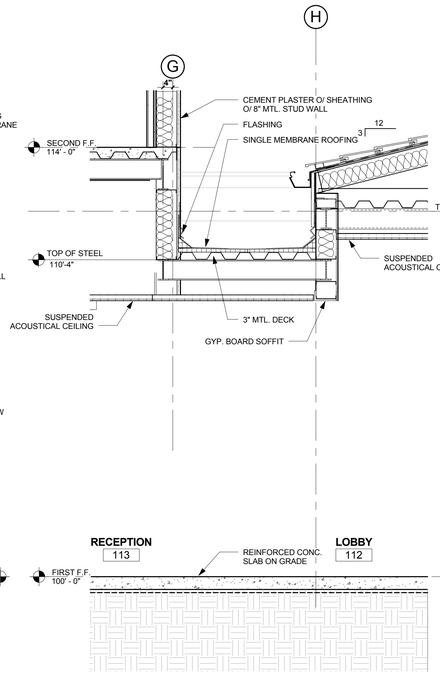
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1/2" = 1'-0"



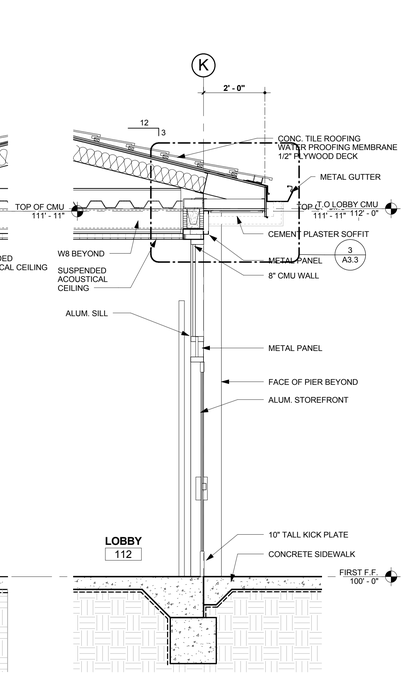
1 **WALL SECTION-SCREEN WALL**
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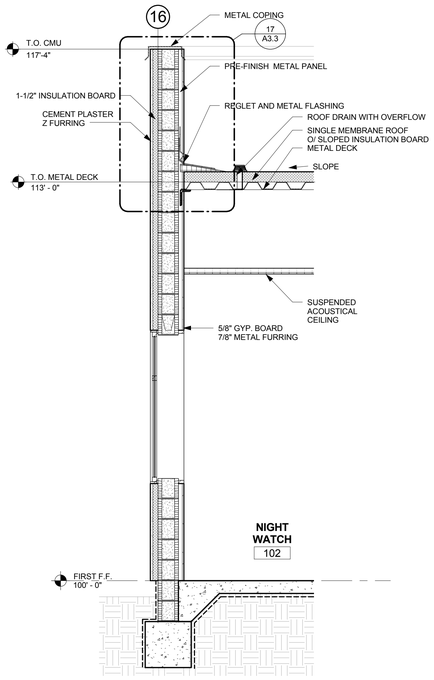
10 **WALL SECTION**
1/2" = 1'-0"



9 **WALL SECTION**
1/2" = 1'-0"



8 **WALL SECTION**
1/2" = 1'-0"



7 **WALL SECTION**
1/2" = 1'-0"

NOT FOR CONSTRUCTION

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1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

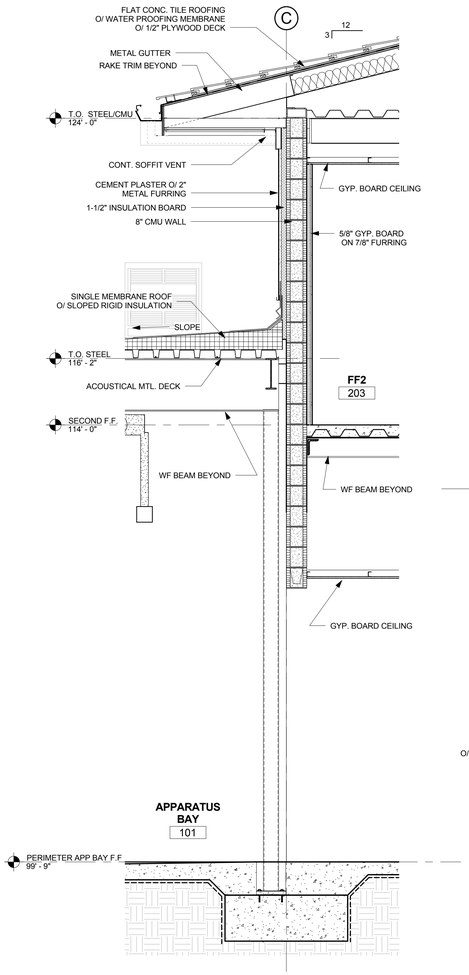
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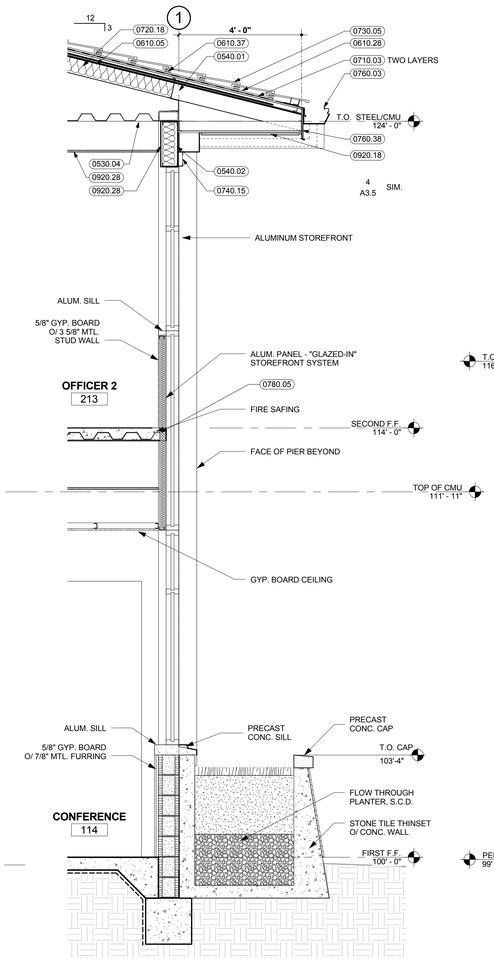
WALL SECTIONS

KEYNOTES

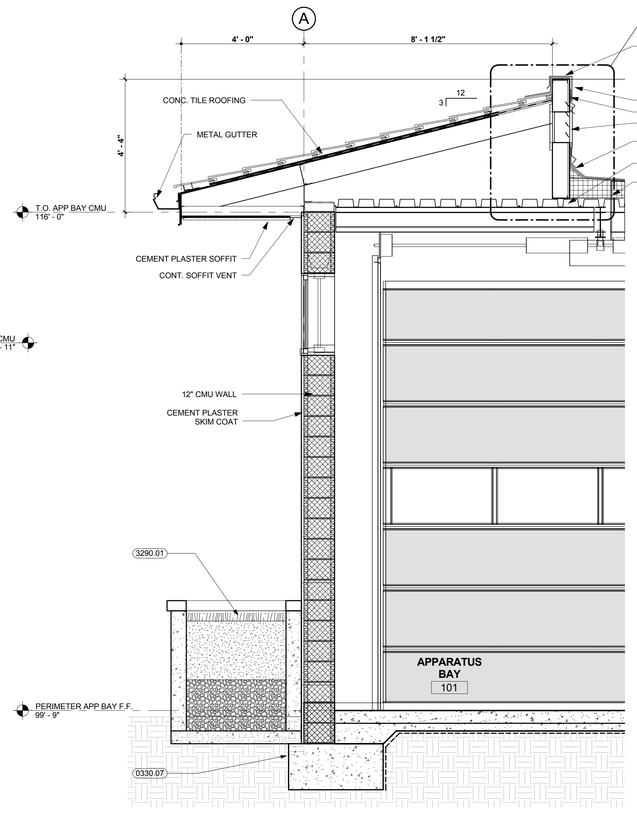
0330.07	CONCRETE FOOTING (RE: STRUCTURAL)
0530.04	3" METAL ROOF DECK (RE: STRUCTURAL)
0540.01	COLD-FORMED METAL FRAMING
0540.02	6" METAL STUDS AT 16" O.C.
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0610.28	1" x 3" CEDAR BATTEN
0610.37	1 X 2 ROOF BATTEN
0710.03	15 LB. ASPHALT FELT
0720.18	6 1/4" BATT INSULATION, R-22
0730.05	CONCRETE FLAT ROOF TILES
0740.15	PREFINISHED ALUMINUM COMPOSITE PANEL SYSTEM
0760.03	PREFINISHED METAL GUTTER
0760.38	BRAKE METAL FASCIA
0780.05	PENETRATION FIRESTOPPING
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.28	5/8" GYPSUM BOARD (TYPE X)
3290.01	LANDSCAPE BED



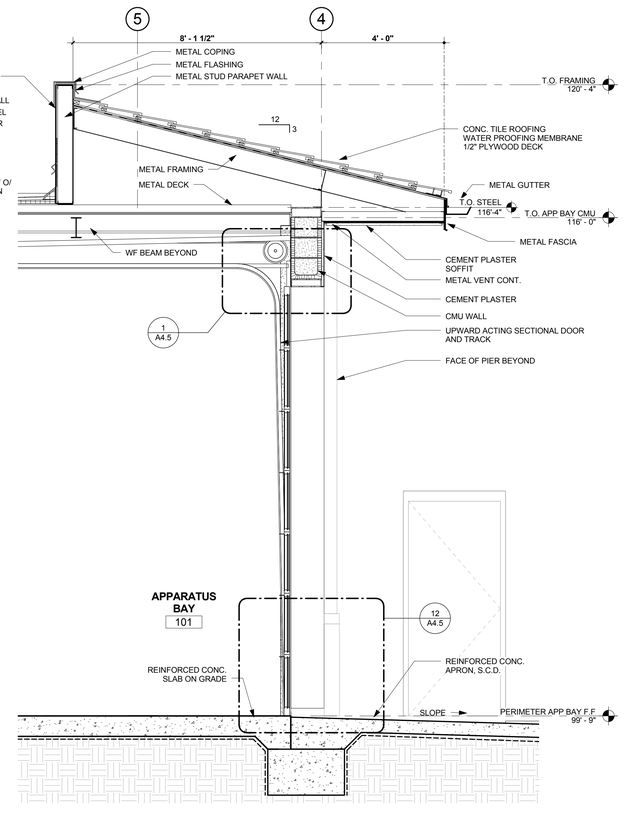
4 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"



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



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

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EDWARD REID BROWN
C-17552
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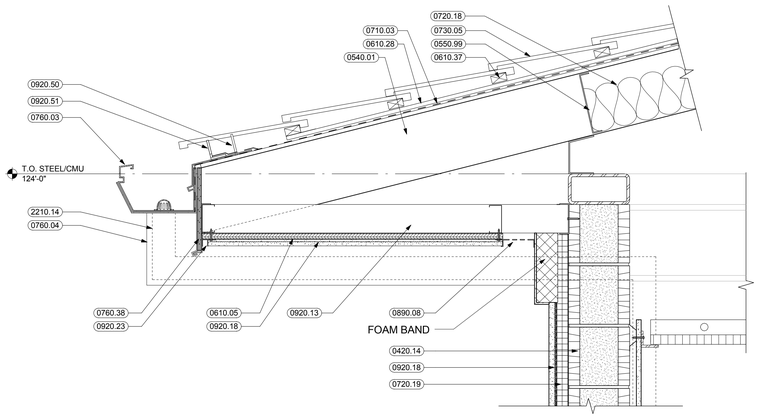
BRW PROJECT NUMBER
2140730.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

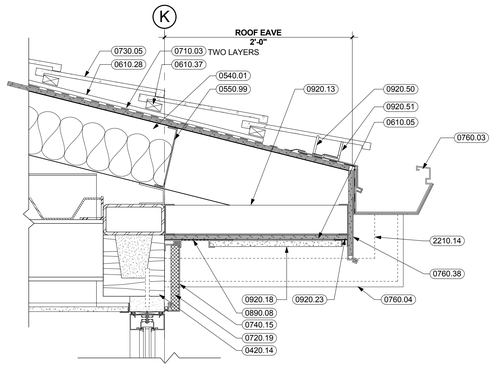
No.	Description	Date

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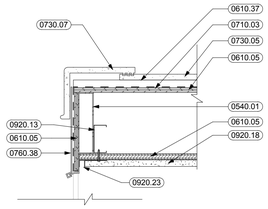
WALL SECTIONS



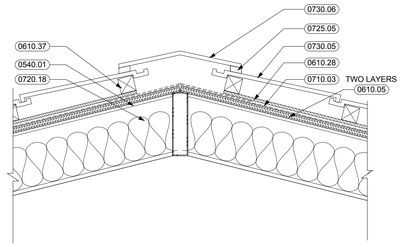
4 ROOF EAVE DETAIL
1 1/2" = 1'-0"



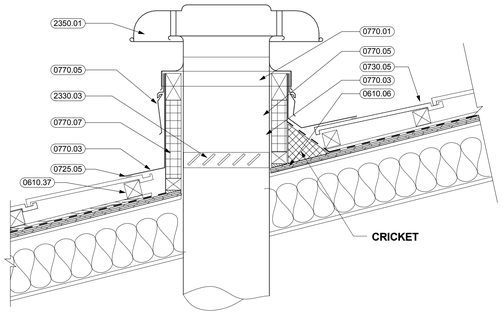
3 ROOF EAVE DETAIL-LOBBY
1 1/2" = 1'-0"



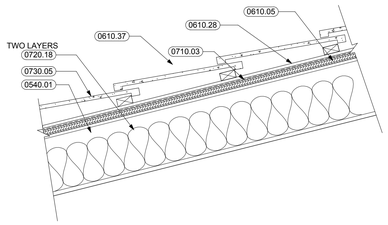
2 RAKE FLASHING DETAIL
1 1/2" = 1'-0"



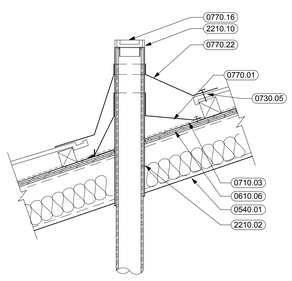
1 ROOF RIDGE DETAIL
1 1/2" = 1'-0"



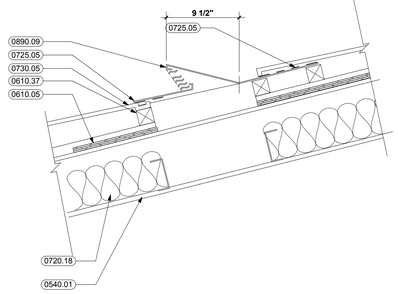
8 ROOFTOP CURB
1 1/2" = 1'-0"



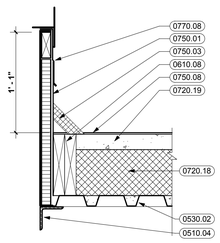
7 ROOF DETAIL @ RAFTERS
1 1/2" = 1'-0"



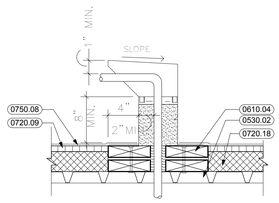
6 PLUMBING VENT
1 1/2" = 1'-0"



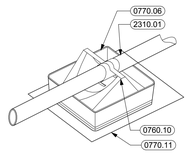
5 DORMER VENT SECTION
1 1/2" = 1'-0"



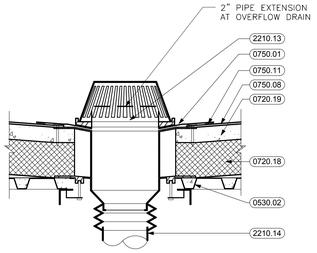
13 MECHANICAL ROOF CURB
1 1/2" = 1'-0"



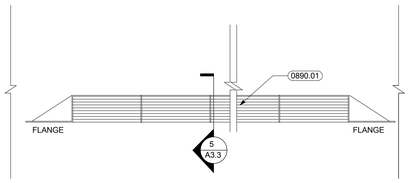
12 HOODED PAN CONDUITE PIPE
1 1/2" = 1'-0"



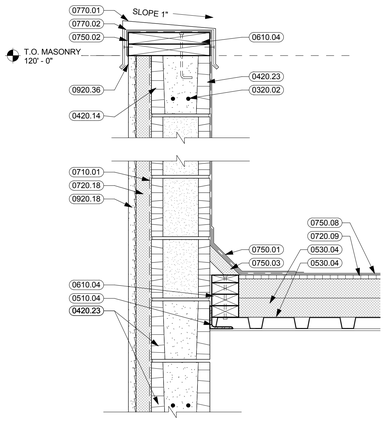
11 PIPE SUPPORT
1 1/2" = 1'-0"



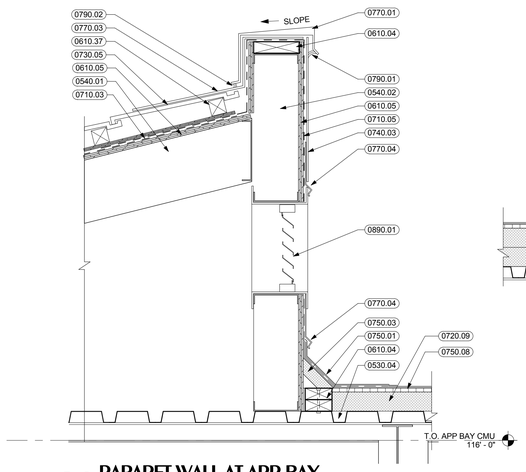
10 ROOF DRAIN
1 1/2" = 1'-0"



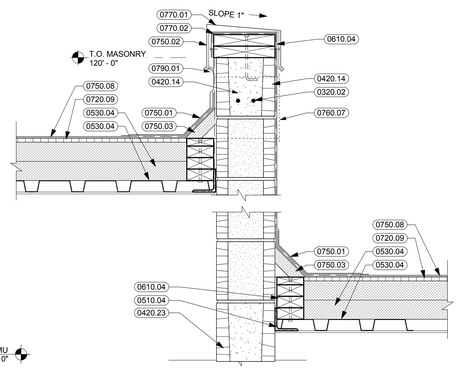
9 DORMER VENT ELEVATION
1 1/2" = 1'-0"



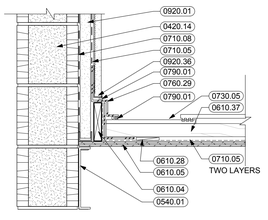
17 PARAPET WALL DETAIL
1 1/2" = 1'-0"



16 PARAPET WALL AT APP BAY
1 1/2" = 1'-0"



15 DIVIDER WALL AT ROOF
1 1/2" = 1'-0"



14 FLASHING-ROOF TO WALL
1 1/2" = 1'-0"

KEYNOTES

0320.02	STEEL REINFORCING (RE: STRUCTURAL)
0420.14	8" CONCRETE MASONRY UNITS
0420.23	CONCRETE MASONRY BOND BEAM
0510.04	STEEL ANGLE (RE: STRUCTURAL)
0530.02	2" METAL DECK (RE: STRUCTURAL)
0530.04	3" METAL ROOF DECK (RE: STRUCTURAL)
0540.01	COLD-FORMED METAL FRAMING
0540.02	6" METAL STUDS AT 16" O.C.
0550.99	6" x 2" H. NOTCH AT EACH METAL BLOCK, TYPICAL
0610.04	2X PRESSURE TREATED WOOD BLOCKING
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0610.06	5/8" EXTERIOR GRADE PLYWOOD
0610.08	2 LAYERS 3/4" EXTERIOR GRADE PLYWOOD BLOCKING
0610.28	1" x 3" CEDAR BATTEN
0610.37	1 X 2 ROOF BATTEN
0710.01	BITUMINOUS DAMPPROOFING
0710.03	15 LB. ASPHALT FELT
0710.05	WATER PROOFING MEMBRANE
0710.08	DAMPROOFING MASTIC
0720.09	1/2" RIGID INSULATION COVERBOARD
0720.18	6 1/4" BATT INSULATION, R-22
0720.19	1 1/2" MINERAL FIBER INSULATION BOARD
0725.05	SEALANT
0730.05	CONCRETE FLAT ROOF TILES
0730.06	CONCRETE FLAT ROOF RIDGE TILES
0730.07	CONCRETE FLAT ROOF RAKE TILES
0740.03	PREFINISHED METAL WALL / SOFFIT PANEL WITH REVEALS
0740.15	PREFINISHED ALUMINUM COMPOSITE PANEL SYSTEM
0750.01	ROOFING BASE FLASHING SYSTEM
0750.02	EXTEND BASE FLASHINGS TO OUTSIDE FACE OF BLOCKING
0750.03	4" CANT
0750.08	EPDM MEMBRANE ROOFING SYSTEM
0750.11	HEAT-WELDED LAP
0760.03	PREFINISHED METAL GUTTER
0760.04	6" PREFINISHED METAL DOWNSPOUT
0760.07	HOT-DIPPED GALVANIZED METAL OVERFLOW SCUPPER (8" H X 12" W CLEAR) WITH PREFINISHED METAL FACING
0760.10	GALVANIZED STRAP
0760.29	PREFINISHED METAL FLASHING & COUNTER FLASHING
0760.38	BRAKE METAL FASCIA
0770.01	PREFINISHED METAL COPING SYSTEM
0770.02	CONTINUOUS CLEAT
0770.03	PREFORMED PREFINISHED METAL FLASHING WITH ALL SEAMS WELDED WATERTIGHT
0770.04	PREFINISHED METAL REGLET WITH SEALANT AND COUNTERFLASHING
0770.05	GALVANIZED REGLET WITH SEALANT AND COUNTERFLASHING
0770.06	PRE-MANUFACTURED PIPE SUPPORT AT 4'-0" O.C. (STACK AS REQUIRED)
0770.07	PREFABRICATED EQUIPMENT SUPPORT
0770.08	EQUIPMENT CURB WITH GALVANIZED COUNTERFLASHING
0770.11	WALK PAD. SET IN ASPHALT
0770.16	4 LB. LEAD FLASHING. SET IN PLASTIC CEMENT AND EXTEND 2'-0" FROM DRAIN
0770.22	PIPE UMBRELLA WITH SEALANT
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0790.02	CAULKING
0890.01	PREFINISHED FIXED ALUMINUM LOUVER (WITH INSECT SCREEN)
0890.08	4" ALUMINUM VENT SCREED
0890.09	PRE FABRICATED METAL ROOF VENT
0920.01	1 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.13	2 1/2" METAL C-H STUDS AT 2'-0" O.C.
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.23	ALUMINUM "F" REGLET
0920.36	J-MOULD, TYPICAL
0920.50	WIND CLIP WHEN REQUIRED
0920.51	METAL EAVE RISER STRIP/CLOSURE (WITH WEEP HOLES FOR DRAINAGE)
2210.02	PIPE SLEEVE AND SEAL
2210.10	GREASE INTERCEPTOR
2210.13	ROOF DRAIN / OVERFLOW ROOF DRAIN
2210.14	3" ROOF DRAIN PIPING
2310.01	GAS PIPING (PAINT WHERE EXPOSED)
2330.03	MOTORIZED DAMPER
2350.01	METAL FLUE WITH BASE AND COLLAR

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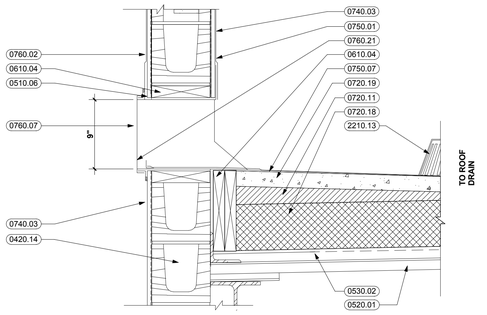
DATE FEBRUARY 9, 2015
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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

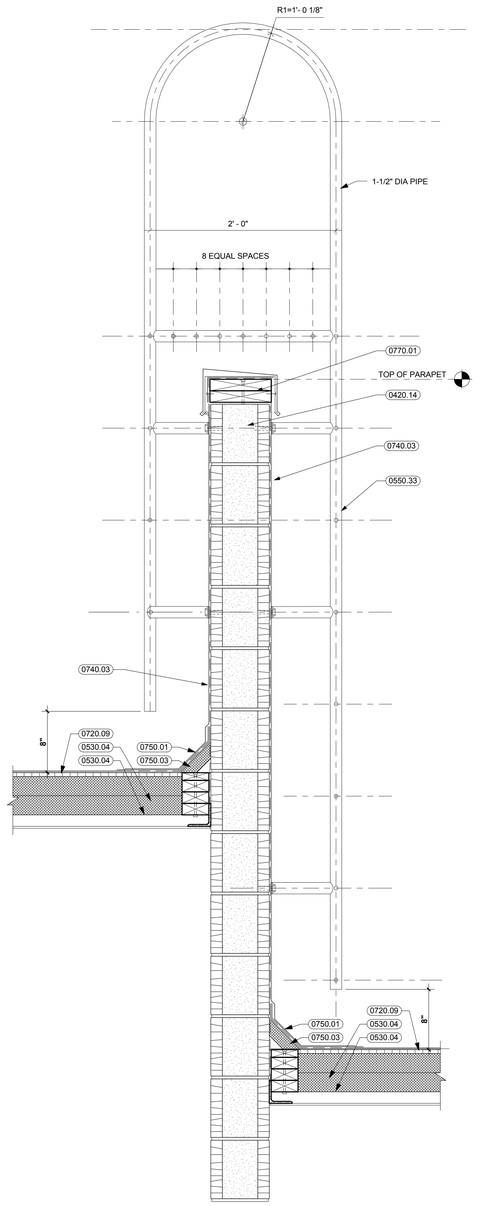
No.	Description	Date

A3.3

ROOF DETAILS



2 OVERFLOW SCUPPER DETAIL
1 1/2" = 1'-0"



1 ROOF LADDER
1 1/2" = 1'-0"

KEYNOTES

0420.14	8" CONCRETE MASONRY UNITS
0510.06	STEEL LINTEL / PLATE (RE: STRUCTURAL)
0520.01	STEEL JOIST (RE: STRUCTURAL)
0530.02	2" METAL DECK (RE: STRUCTURAL)
0530.04	3" METAL ROOF DECK (RE: STRUCTURAL)
0550.33	METAL LADDER
0610.04	2X PRESSURE TREATED WOOD BLOCKING
0720.09	1/2" RIGID INSULATION COVERBOARD
0720.11	TAPERED INSULATION CRICKET
0720.18	6 1/4" BATT INSULATION, R-22
0720.19	1 1/2" MINERAL FIBER INSULATION BOARD
0740.03	PREFINISHED METAL WALL / SOFFIT PANEL WITH REVEALS
0750.01	ROOFING BASE FLASHING SYSTEM
0750.03	4" CANT
0750.07	2-PLY MODIFIED BITUMEN MEMBRANE ROOFING SYSTEM
0760.02	THROUGH-WALL FLASHING (WITH WEEPS AT 2'-0" O.C.)
0760.07	HOT-DIPPED GALVANIZED METAL OVERFLOW SCUPPER (8" H X 12" W CLEAR) WITH PREFINISHED METAL FACING
0760.21	GALVANIZED METAL GRAVEL GUARD
0770.01	PREFINISHED METAL COPING SYSTEM
2210.13	ROOF DRAIN / OVERFLOW ROOF DRAIN

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LICENSED ARCHITECT C-17552 STATE OF CALIFORNIA

BROWN REYNOLDS WATFORD
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BRW PROJECT NUMBER 2140730.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

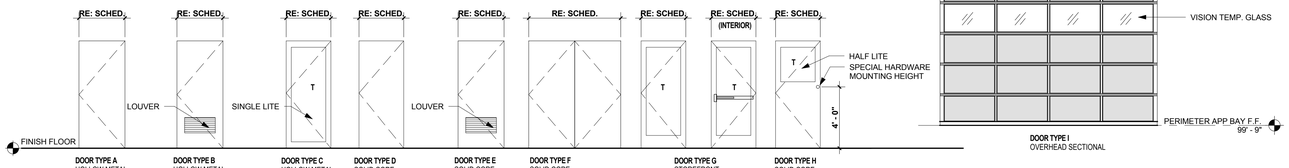
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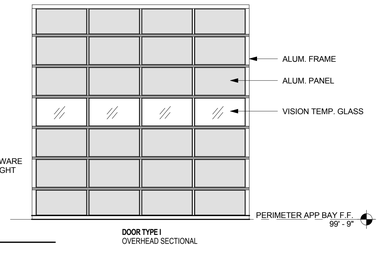
ROOF DETAILS

KEYNOTES

DOOR SCHEDULE

DOOR NUMBER	DESCRIPTION	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR MTL.	DOOR TYPE	FRAME MTL.	FRAME TYPE	DETAILS SILL	DETAILS JAMB	DETAILS HEAD	HDWR. SET	REMARKS
101A	OVERHEAD	14' - 0"	14' - 0"	AL	I	MFR.	MFR.					FRAME BY MANUFACTURER
101B	OVERHEAD	14' - 0"	14' - 0"	AL	I	MFR.	MFR.					FRAME BY MANUFACTURER
101C	OVERHEAD	14' - 0"	14' - 0"	AL	I	MFR.	MFR.					FRAME BY MANUFACTURER
101D	OVERHEAD	14' - 0"	14' - 0"	AL	I	MFR.	MFR.					FRAME BY MANUFACTURER
101E	SINGLE	3' - 0"	7' - 0"	HM	A	HM	A					
101F	SINGLE	3' - 0"	7' - 0"	HM	A	HM	A					
102	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
103	SINGLE	3' - 0"	7' - 0"	SC	E	HM						
104	SINGLE	3' - 0"	7' - 0"	HM	B	HM	B					
105A	SINGLE	4' - 8"	8' - 0"	HM	A	HM	A					WITH TEMPERED SIDELIGHT
105B	SINGLE	4' - 8"	8' - 0"	SC	D	HM	A					WITH TEMPERED SIDELIGHT
106	SINGLE	2' - 6"	7' - 0"	SC	D	SC	B					
107	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
108	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
109	SINGLE	3' - 0"	7' - 0"	HM	C	HM	C					
111	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
112	STOREFRONT	3' - 6"	7' - 0"	AL	G	AL	WINDOW C					
114	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
115	SINGLE	3' - 0"	7' - 0"	SC	E	HM	B					
116	SINGLE	3' - 0"	7' - 0"	HM	A	HM	C					
117	SINGLE	3' - 0"	7' - 0"	HM	B	HM	B					
118	SINGLE	3' - 0"	7' - 0"	HM	B	HM	B					
201	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
202	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
203	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
204	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
205	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
206	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
207	SINGLE	3' - 0"	7' - 0"	HM	H	HM	B					SPECIAL HARDWARE
208	SINGLE	3' - 0"	7' - 0"	SC	E	HM	B					
209	SINGLE	3' - 0"	7' - 0"	SC	E	HM	B					
210	SINGLE	3' - 0"	7' - 0"	SC	E	HM	B					
211A	SINGLE	3' - 0"	7' - 0"	SC	E	HM	B					
211B	SINGLE	2' - 0"	7' - 0"	SC	D	HM	B					
212A	SINGLE	3' - 0"	7' - 0"	SC	E	HM	B					
212B	SINGLE	2' - 0"	7' - 0"	SC	D	HM	B					
213	SINGLE	3' - 0"	7' - 0"	SC	D	HM	B					
217	PAIR	2' - 6"	7' - 0"	SC	F	HM	B					





DOOR TYPES
1/4" = 1'-0"

DOOR NOTES

1. OPENING SIZE IN THE SCHEDULE REFERS TO FINISHED OPENING OF THE DOOR FRAME.
2. UNDERCUT AT DOORS SHALL BE 1/2" MAXIMUM UNLESS OTHERWISE NOTED. UNDERCUT AT 2O MINUTE DOORS 3/8". UNDERCUT AT NON-RATED TOILET DOORS 3/4".
3. ALL DOORS ARE TYPICAL 1-3/4" THICK UNLESS OTHERWISE NOTED IN THE DOOR SCHEDULE "NOTES" COLUMN.
4. **PER CBC SECTION 1008. 1.9.1 HARDWARE:** DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11A OR 11B SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
5. **PER CBC SECTION 1008. 1.9.2 HARDWARE HEIGHT:** DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR. LOCKS USED ONLY FOR SECURITY PURPOSES AND NOT USED FOR NORMAL OPERATION ARE PERMITTED AT ANY HEIGHT.
6. THE DOORS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING, WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY ARE DONE. PERIODIC INSPECTIONS SHALL BE MADE BY AN APPROVED INSPECTION AGENCY DURING FABRICATION AND ASSEMBLY. LABELS FOR FIRE DOORS USED TO PROTECT OPENINGS INTO EXIT ENCLOSURES SHALL INDICATE THAT THE TEMPERATURE RISE ON THE UNEXPOSED SURFACE DOES NOT EXCEED 450 DEGREE FAHRENHEIT ABOVE AMBIENT AT THE END OF 30 MINUTE OF THE FIRE EXPOSURE SPECIFIED IN THE UBC STANDING 7'-2" TO SHOW COMPLIANCE WITH SEC 1005.3. OVERSIZED FIRE DOORS MAY BE INSTALLED WHEN APPROVED BY THE BUILDING OFFICIAL. THE DOORS SHALL BE LABELED OR BE FURNISHED WITH CERTIFICATE OF INSPECTION FROM THE APPROVED AGENCY.
7. **PER CBC SECTION 1008.1.1 SIZE OF DOORS:** THE MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THEREOF AND SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES. 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. WHERE THIS SECTION REQUIRES A MINIMUM CLEAR WIDTH OF 32 INCHES AND A DOOR OPENING INCLUDES TWO DOOR LEAVES WITHOUT A MULLION, ONE LEAF SHALL PROVIDE A CLEAR OPENING WIDTH OF 32 INCHES. THE MAXIMUM WIDTH OF A SWINGING DOOR LEAF SHALL BE 48 INCHES NOMINAL. MEANS OF EGRESS DOORS IN A GROUP I-2 OCCUPANCY USED FOR THE MOVEMENT OF BEDS AND LITTER PATIENTS SHALL PROVIDE A CLEAR WIDTH NOT LESS THAN 44 INCHES. THE HEIGHT OF DOOR OPENINGS SHALL NOT BE LESS THAN 80 INCHES.
8. **PER CBC SECTION 11B-404.2.7 DOOR AND GATE HARDWARE:** HANDLES, PULLS LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH **CBC SECTION 11B-309.4.** OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
9. **PER CBC SECTION 11B-404.2.8.1 DOOR CLOSER 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.
10. **PER CBC 11B-404.2.10:** THE BOTTOM 10" OF THE DOOR SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITIONS.

FIRE RATED:

11. SEE DOOR SCHEDULE FOR THE REQUIRED FIRE-RATING OF THE (N) FIRE RATED DOORS PER CBC TABLE 715.4.
12. DOORS SHALL HAVE A MAXIMUM OPENING FORCE OF 5 LBF FIRE DOORS SHALL HAVE MAXIMUM OPENING FORCE NOT THE EXCEED 15 LBF.

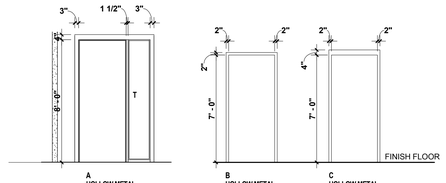
DOOR CLOSER PRESSURE

ALL NEW DOORS TO MEET THE FOLLOWING MAX. DOOR PRESSURE CRITERIA

(A) 5.0 LBS - INTERIOR
(B) 5.0 LBS - EXTERIOR
(C) 15.0 LBS - FIRE*

* UP TO 15 LBS MAX FORCE (THE LOWEST FORCE POSSIBLE TO BE USED) NECESSARY FOR DOOR TO CLOSE AND LATCH IN A FIRE CONDITION.

* THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POTION OF 70 DEGREES THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.



DOOR FRAME TYPES
1/4" = 1'-0"

GLAZING NOTES

TEMPERED GLAZING:

PER CBC SECTION 2406.4 THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:

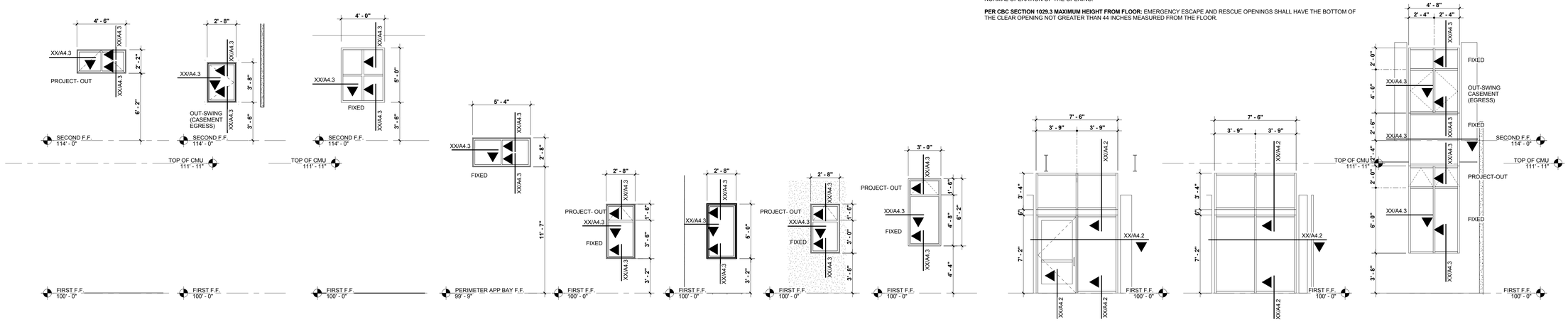
1. GLAZING IN INGRESS AND EGRESS DOORS EXCEPT JALOUSIES.
2. GLAZING IN FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES AND PANELS IN SWINGING DOORS OTHER THAN WARDROBE DOORS.
3. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.
4. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
   - 4.1 EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQUARE FEET.
   - 4.2 EXPOSED BOTTOM EDGE LESS THAN 18" INCHES ABOVE THE FLOOR.
   - 4.3 EXPOSED TOP EDGE GREATER THAN 36" INCHES ABOVE THE FLOOR.
   - 4.4 ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING.

CBC SECTION 1029
EMERGENCY ESCAPE AND RESCUE

PER CBC SECTION 1029.2 MINIMUM SIZE: EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET.

PER CBC SECTION 1029.2.1 MINIMUM DIMENSIONS: THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20 INCHES. THE NET CLEAR OPENING DIMENSIONS SHALL BE THE RESULT OF NORMAL OPERATION OF THE OPENING.

PER CBC SECTION 1029.3 MAXIMUM HEIGHT FROM FLOOR: EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44 INCHES MEASURED FROM THE FLOOR.



K JANITOR/RESTROOMS /LAUNDRY/ OFFICE 2
J FIREFIGHTERS BEDROOMS
I STAIRS
H APP BAYS
G WATCH ROOM
F APP BAY INTERIOR
E KITCHEN
D EXERCISE / DAYROOM
C LOBBY
B LOBBY
A CONFERENCE ROOM/ OFFICERS BEDROOM

WINDOW TYPES
1/4" = 1'-0"

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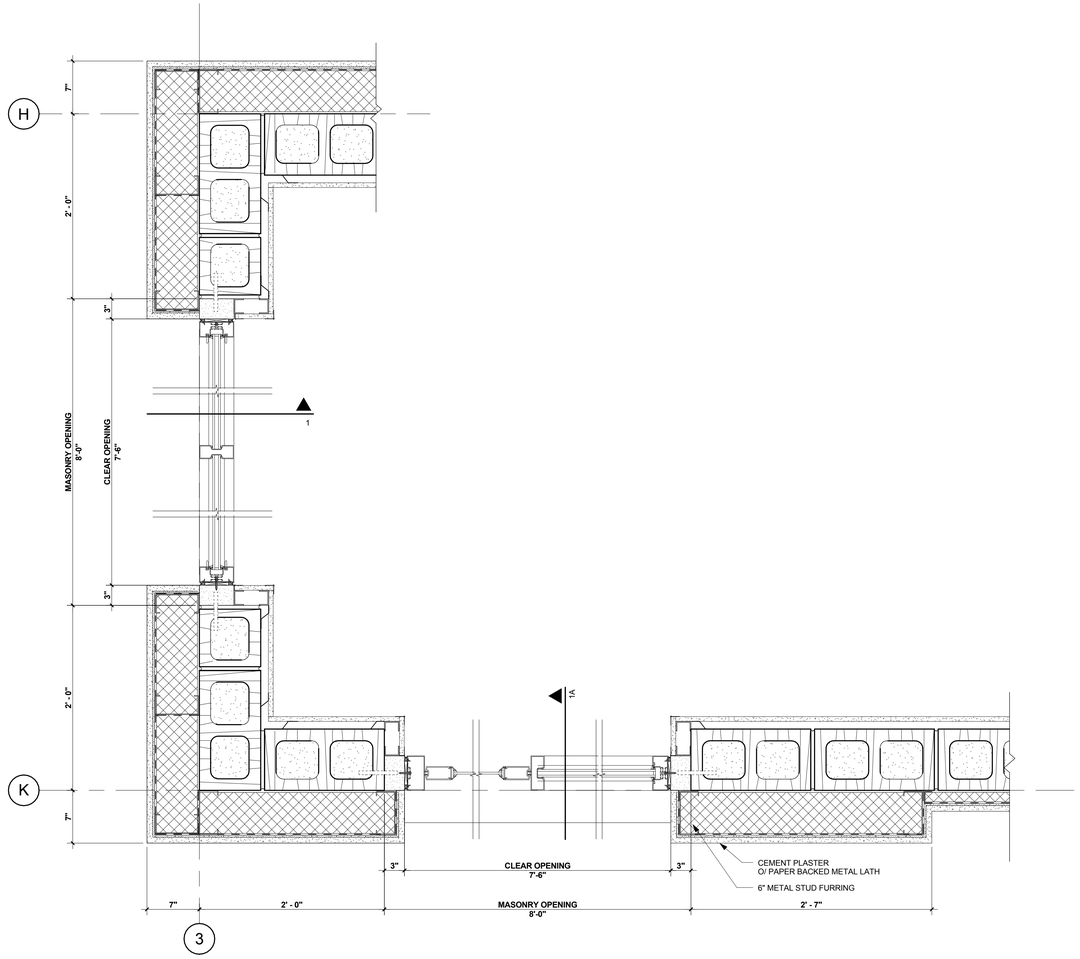
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-1114
1629 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

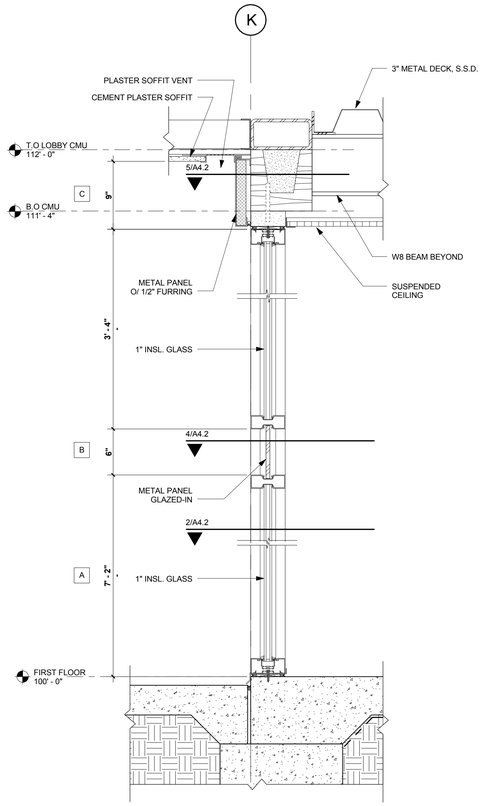
A4.1

DOOR SCHEDULE & WINDOW SCHEDULE

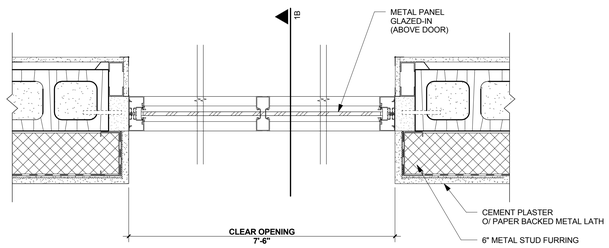
KEYNOTES



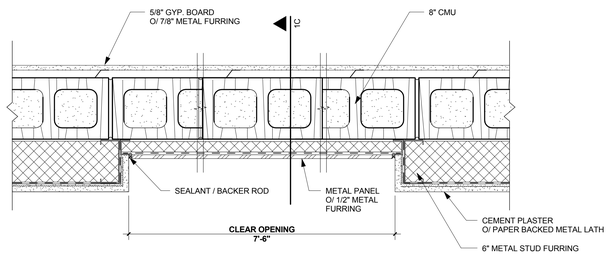
2 STOREFRONT DOOR PLAN
1 1/2" = 1'-0"



1 STOREFRONT DETAILS
1 1/2" = 1'-0"



4 STOREFRONT DOOR PLAN
1 1/2" = 1'-0"



5 STOREFRONT DOOR PLAN
1 1/2" = 1'-0"

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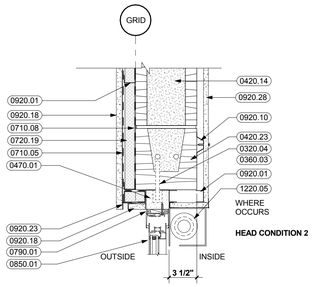
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PROJECT NO. 023114
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ALAMEDA, CA 94501

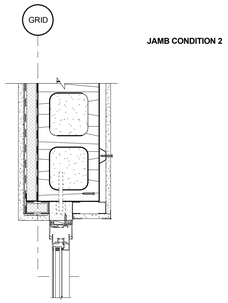
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A4.2

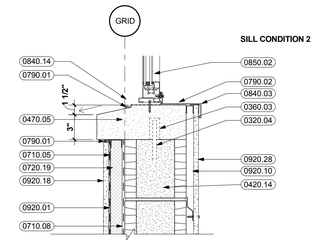
STOREFRONT DETAILS



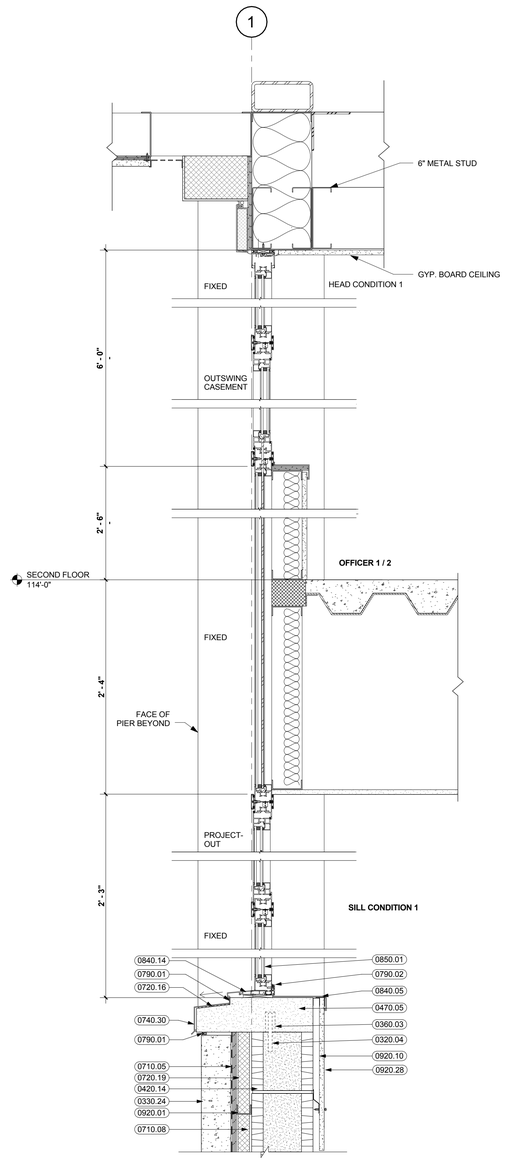
3 HEAD DETAIL - WINDOW TYPES E + G + J
1 1/2" = 1'-0"



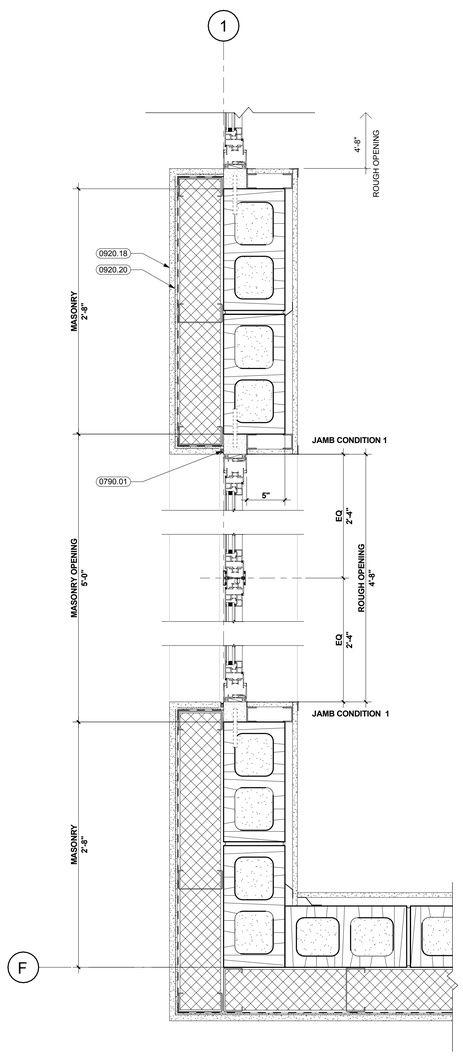
4 JAMB DETAIL - WINDOW TYPES E + G + J
1 1/2" = 1'-0"



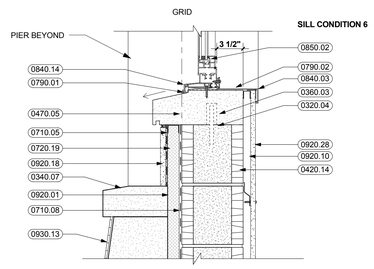
5 SILL DETAIL - WINDOW TYPES E + G + J
1 1/2" = 1'-0"



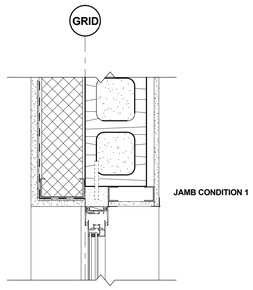
2 HEAD & SILL DETAILS - WINDOW TYPE A
1 1/2" = 1'-0"



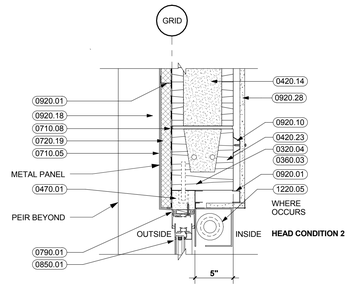
1 PLAN BLOW-UP-WINDOW TYPE A
1 1/2" = 1'-0"



8 SILL DETAIL - WINDOW TYPE D
1 1/2" = 1'-0"



7 JAMB DETAIL - WINDOW TYPES A + D
1 1/2" = 1'-0"



6 HEAD DETAIL - WINDOW TYPES D
1 1/2" = 1'-0"

KEYNOTES

0320.04	DOWEL SUPPORT
0330.24	CAST-IN-PLACE CONCRETE RETAINING WALL
0340.07	PRECAST CONC. CAP - THINSET O/ CONCRETE WALL
0360.03	FILL WITH GROUT
0420.14	8" CONCRETE MASONRY UNITS
0420.23	CONCRETE MASONRY BOND BEAM
0470.01	CAST STONE
0470.05	CAST STONE SILL WITH DRIP
0710.05	WATER PROOFING MEMBRANE
0710.08	DAMPROOFING MASTIC
0720.16	CONTINUOUS WATERPROOFING FINISH COAT
0720.19	1 1/2" MINERAL FIBER INSULATION BOARD
0740.30	PREFINISH METAL SLOPING SILL WITH CONTINOUS CLEAT AND SEALANT AT EDGES
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0790.02	CAULKING
0840.03	.060 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
0840.05	CONTINUOUS ALUMINUM SILL FLASHING
0840.14	ALUMINUM LEDG SILL BY CURTAINWALL MANUFACTURER
0850.01	FIXED ALUMINUM WINDOW
0850.02	OPERABLE ALUMINUM WINDOW
0920.01	1 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.10	7/8" FURRING CHANNEL AT 16" O.C.
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.20	METAL LATH
0920.23	ALUMINUM "F" REGLET
0920.28	5/8" GYPSUM BOARD (TYPE X)
0930.13	PORCELAIN TILE VENEER THINSET ON CONCRETE WALL
1220.05	MOTORIZED WINDOW SHADES

WINDOWS A+D+E+G+J

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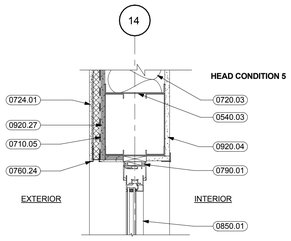
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ALAMEDA, CA 94501

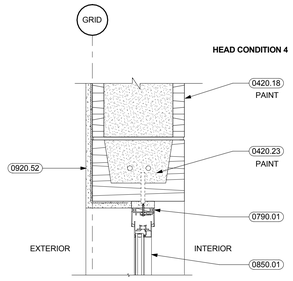
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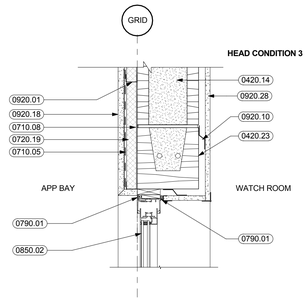
WINDOW & LOUVER DETAILS



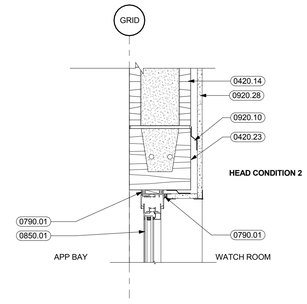
4 HEAD DETAIL - WINDOW TYPES I + K
1 1/2" = 1'-0"



3 HEAD DETAIL - WINDOW TYPE H
1 1/2" = 1'-0"



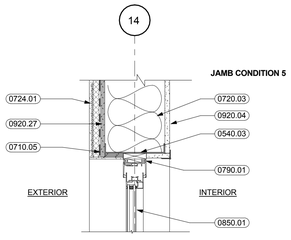
2 HEAD DETAIL - WINDOW TYPE G
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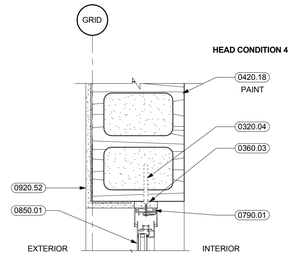
1 HEAD DETAIL - WINDOW TYPES F
1 1/2" = 1'-0"

KEYNOTES

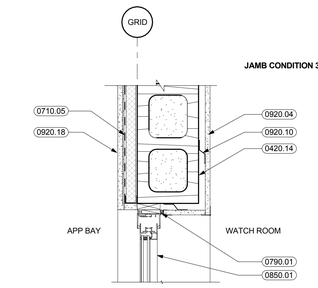
0320.04	DOWEL SUPPORT
0360.03	FILL WITH GROUT
0420.14	8" CONCRETE MASONRY UNITS
0420.18	12" CONCRETE MASONRY UNITS
0420.23	CONCRETE MASONRY BOND BEAM
0470.05	CAST STONE SILL WITH DRIP
0540.03	8" METAL STUDS AT 16" O.C.
0710.05	WATER PROOFING MEMBRANE
0710.08	DAMPROOFING MASTIC
0720.03	5 1/2" NATURAL FIBER INSULATION
0720.19	1 1/2" MINERAL FIBER INSULATION BOARD
0724.01	E.I.F.S. W/ R-5 INSULATION
0760.24	PREFINISHED METAL DRIP EDGE WITH FACTORY WELDED SKIRT
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0840.03	.060 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
0840.14	ALUMINUM LEGG SILL BY CURTAINWALL MANUFACTURER
0850.01	FIXED ALUMINUM WINDOW
0850.02	OPERABLE ALUMINUM WINDOW
0920.01	1 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.04	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.10	7/8" FURRING CHANNEL AT 16" O.C.
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.27	1/2" GYPSUM SHEATHING
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.52	CEMENT PLASTER SKIM COAT O/ CMU



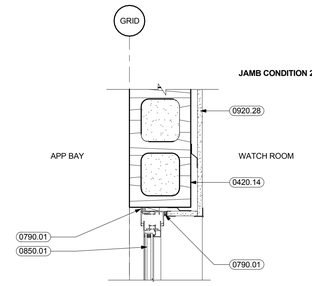
8 JAMB DETAIL - WINDOW TYPES I + K
1 1/2" = 1'-0"



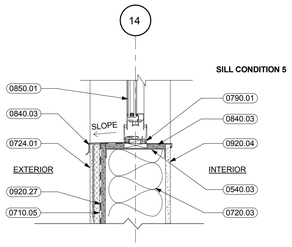
7 JAMB DETAIL - WINDOW TYPE H
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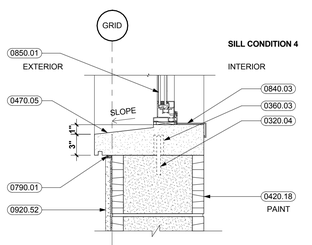
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1 1/2" = 1'-0"



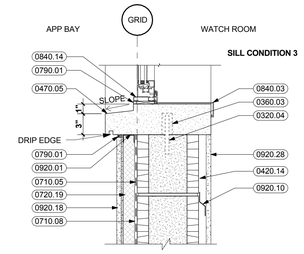
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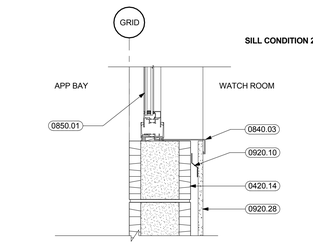
12 SILL DETAIL - WINDOW TYPES I + K
1 1/2" = 1'-0"



11 SILL DETAIL - WINDOW TYPE H
1 1/2" = 1'-0"



10 SILL DETAIL - WINDOW TYPE G
1 1/2" = 1'-0"



9 SILL DETAIL - WINDOW TYPES F
1 1/2" = 1'-0"

WINDOWS F+H+I+K

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LICENSED ARCHITECT ROBERT F. REYNOLDS C-17552 STATE OF CALIFORNIA

BROWN REYNOLDS WATFORD
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SAN FRANCISCO CA 94111
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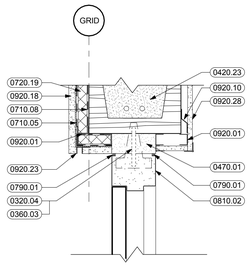
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

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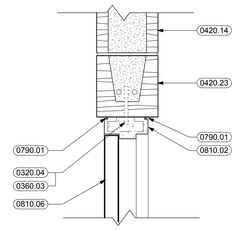
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WINDOW DETAILS

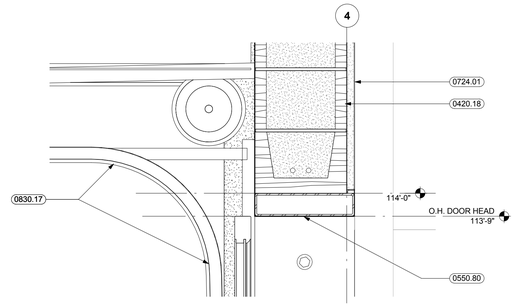
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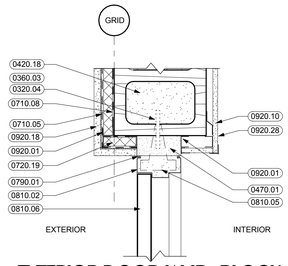
3 EXTERIOR DOOR HEAD - BLOCK
1 1/2" = 1'-0"



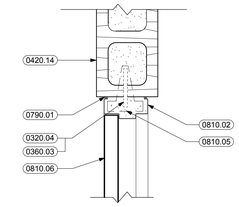
2 INTERIOR DOOR HEAD - BLOCK
1 1/2" = 1'-0"



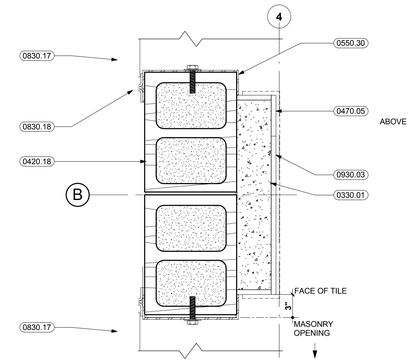
1 OH DOOR HEAD
1 1/2" = 1'-0"



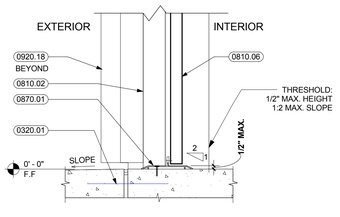
6 EXTERIOR DOOR JAMB - BLOCK
1 1/2" = 1'-0"



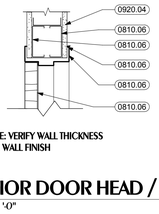
5 INTERIOR DOOR JAMB - BLOCK
1 1/2" = 1'-0"



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



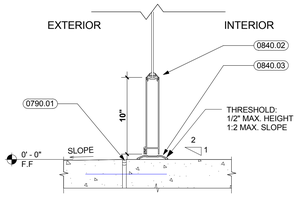
8 EXTERIOR DOOR SILL (HOLLOW METAL)
1 1/2" = 1'-0"



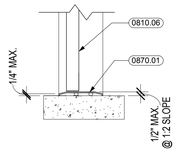
NOTE: VERIFY WALL THICKNESS
AND WALL FINISH

7 INTERIOR DOOR HEAD / JAMB - STUD
1 1/2" = 1'-0"

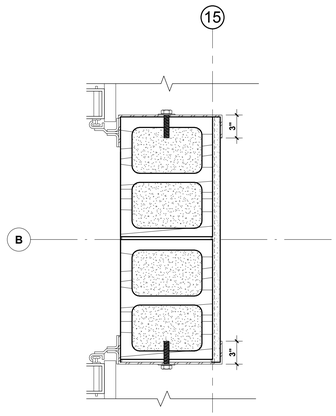
9 OH DOOR JAMB
1 1/2" = 1'-0"



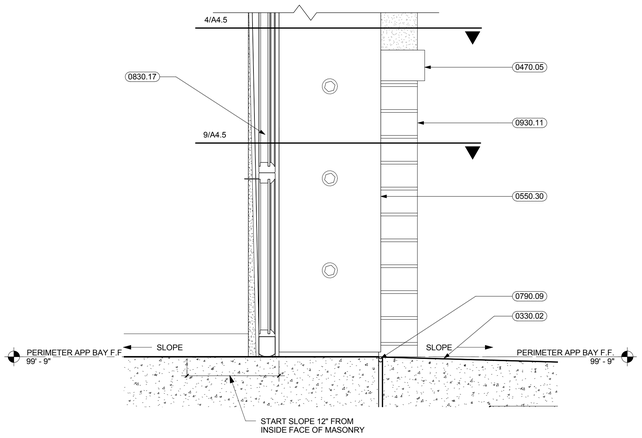
11 EXTERIOR DOOR SILL (STOREFRONT)
1 1/2" = 1'-0"



10 INTERIOR DOOR SILL
1 1/2" = 1'-0"



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



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

KEYNOTES

0320.01	DOWEL INTO CONCRETE SLAB
0320.04	DOWEL SUPPORT
0330.01	CONCRETE (RE: STRUCTURAL)
0330.02	CONCRETE SLAB (RE: STRUCTURAL)
0360.03	FILL WITH GROUT
0420.14	8" CONCRETE MASONRY UNITS
0420.18	12" CONCRETE MASONRY UNITS
0420.23	CONCRETE MASONRY BOND BEAM
0470.01	CAST STONE
0470.05	CAST STONE SILL WITH DRIP
0550.30	1/4" STEEL PLATE
0550.80	2" X 12" STEEL TUBE
0610.05	1/2" EXTERIOR GRADE PLYWOOD
0710.05	WATER PROOFING MEMBRANE
0710.08	DAMPROOFING MASTIC
0720.19	1 1/2" MINERAL FIBER INSULATION BOARD
0724.01	E.I.F.S. W/ R-5 INSULATION
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0790.09	JOINT SEALANT
0810.02	HOLLOW METAL FRAME
0810.05	JAMB ANCHOR (3 PER JAMB)
0810.06	HOLLOW METAL DOOR
0830.17	SECTIONAL DOOR
0830.18	SECTIONAL DOOR TRACK
0840.02	ALUMINUM STOREFRONT DOOR
0840.03	.060 ALUMINUM SILL WITH HEMMED AND CLOSED ENDS
0870.01	METAL THRESHOLD, SET IN SEALANT
0920.01	1 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.04	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.10	7/8" FURRING CHANNEL AT 16" O.C.
0920.18	1" PORTLAND CEMENT STUCCO ON METAL LATH
0920.23	ALUMINUM "F" REGLET
0920.28	5/8" GYPSUM BOARD (TYPE X)
0930.03	QUARRY TILE
0930.11	PORCELAIN TILE VENEER THINSET ON PLASTER SCRATCH & BROWN COAT

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LICENSED ARCHITECT C-17552 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

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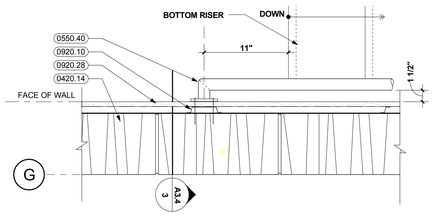
BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

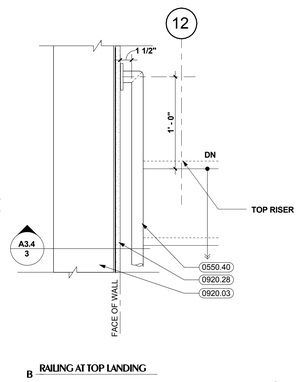
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DOOR DETAILS

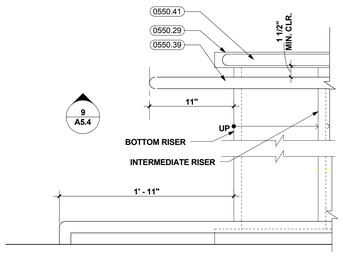


A RAILING AT BOTTOM LANDING

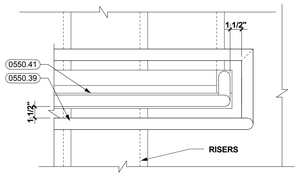


B RAILING AT TOP LANDING

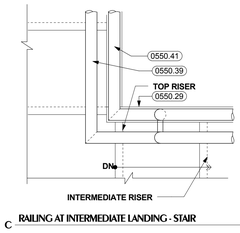
3 WALL MOUNTED HANDRAIL
1 1/2" = 1'-0"



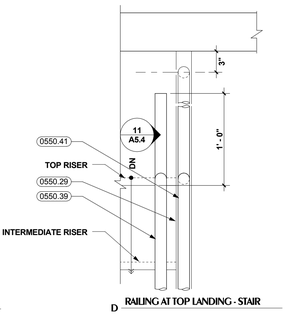
A RAILING AT BOTTOM FLOOR LANDING



B RAILING AT INTERMEDIATE LANDING - STAIR

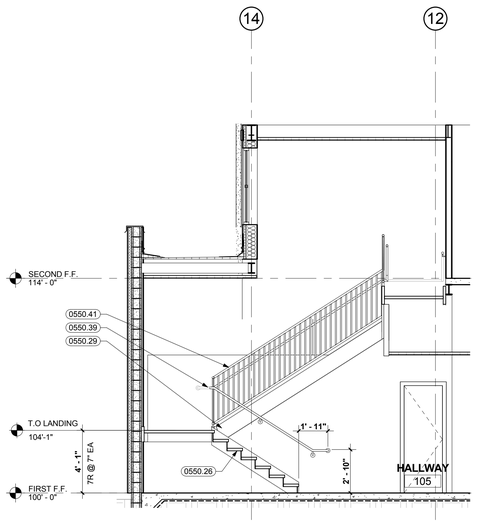


C RAILING AT INTERMEDIATE LANDING - STAIR

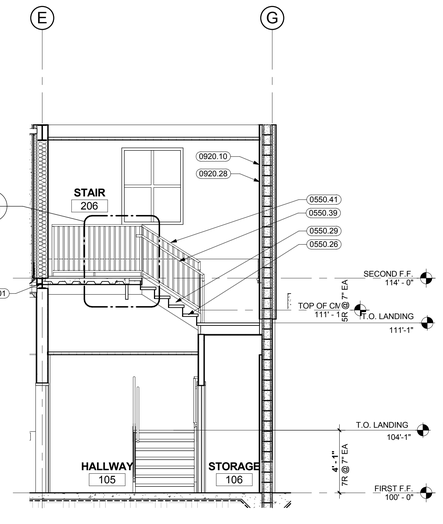


D RAILING AT TOP LANDING - STAIR

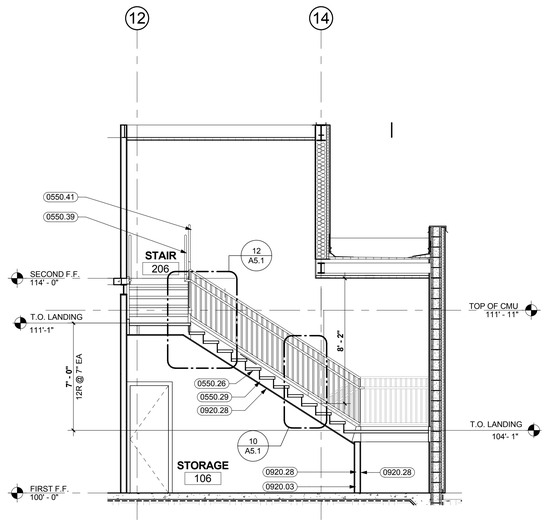
7 STAIR-GUARDRAIL PLAN
1 1/2" = 1'-0"



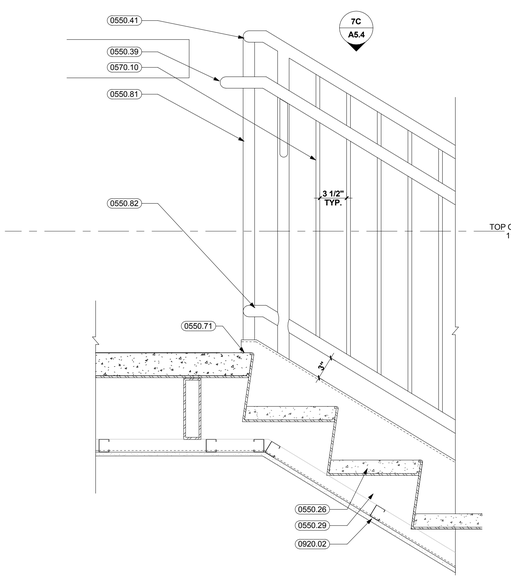
6 STAIRS SECTION
1/4" = 1'-0"



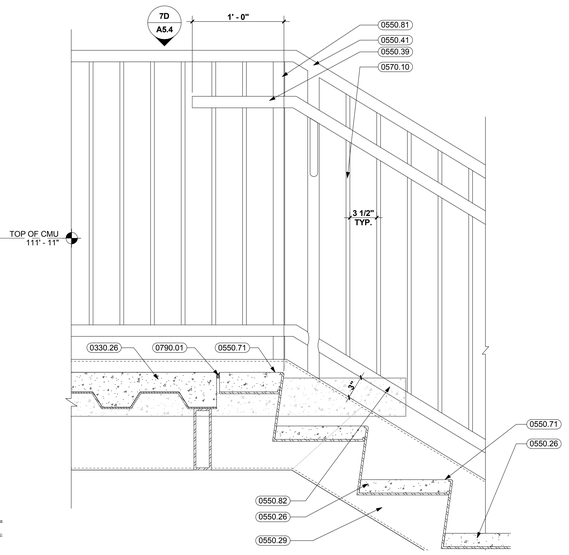
5 STAIRS SECTION
1/4" = 1'-0"



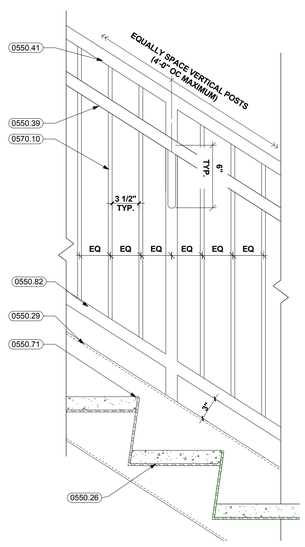
4 STAIRS - SECTION
1/4" = 1'-0"



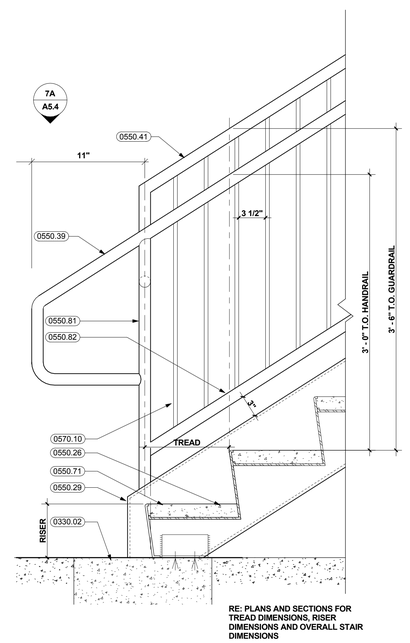
12 STAIR SECTION AT INTERMEDIATE LANDING
1 1/2" = 1'-0"



11 STAIR SECTION AT TOP LANDING
1 1/2" = 1'-0"

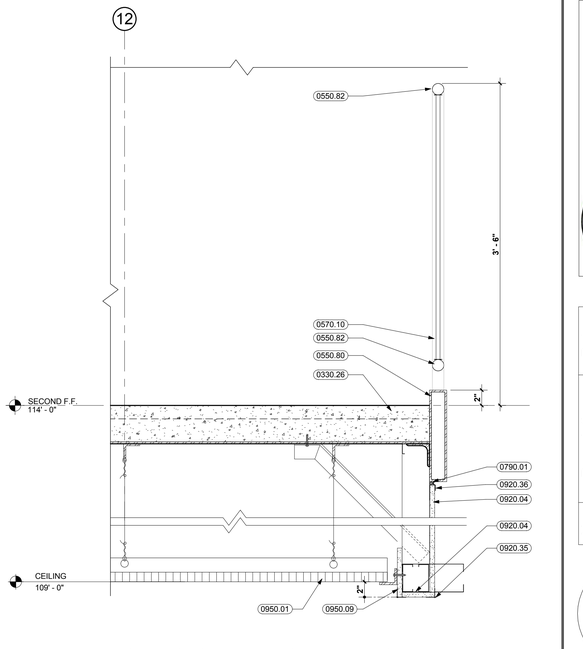


10 STAIR SECTION AT INTERMEDIATE POST
1 1/2" = 1'-0"



RE: PLANS AND SECTIONS FOR TREAD DIMENSIONS, RISER DIMENSIONS AND OVERALL STAIR DIMENSIONS

9 STAIR SECTION AT BOTTOM LANDING
1 1/2" = 1'-0"



8 STAIR SECTION AT TOP LANDING
1 1/2" = 1'-0"

KEYNOTES

0330.02	CONCRETE SLAB (RE: STRUCTURAL)
0330.26	LT. WT. CONCRETE OVER MTL. DECK (RE: STRUCTURAL)
0420.14	8" CONCRETE MASONRY UNITS
0510.01	STEEL STRUCTURE (RE: STRUCTURAL)
0550.26	METAL PAN STAIR. FILL WITH CONCRETE
0550.29	STEEL TUBE STRINGER
0550.39	1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL (3'-0" HIGH U.N.O.)
0550.40	1 1/4" DIAMETER STANDARD STEEL PIPE HANDRAIL WITH 3/8" PLATE STEEL BRACKETS AT 5'-0" O.C. MAX.
0550.41	1 1/4" STANDARD STEEL PIPE GUARDRAIL (3'-6" HIGH) TOP RAIL
0550.42	1 1/4" STANDARD STEEL PIPE HANDRAIL
0550.71	WARNING STRIPE
0550.80	2" X 12" STEEL TUBE
0550.81	1 1/4" DIAMETER STANDARD STEEL PIPE GUARDRAIL POST
0550.82	1 1/4" DIAMETER STANDARD STEEL PIPE BOTTOM RAIL
0570.10	3/4" DIAMETER SOLID STEEL VERTICAL PICKET
0790.01	SEALANT WITH BACKER ROD AS REQUIRED
0920.02	2 1/2" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.03	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 8" O.C.
0920.04	3 5/8" METAL STUDS (20 GAUGE MINIMUM) AT 16" O.C.
0920.10	7/8" FURRING CHANNEL AT 16" O.C.
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.35	CORNER BEAD, TYPICAL
0920.36	J-MOULD, TYPICAL
0950.01	SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2' X 2')
0950.09	CEILING CLOSURE SYSTEM

STAIRS NOTES

1. **PER CBC 11B-302.1**: SURFACE IS STABLE, FIRM, AND SLIP RESISTANT.
2. **PER CBC 11B-504.2 TREADS AND RISERS**: ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES HIGH MINIMUM AND 7 INCHES HIGH MAXIMUM. TREADS SHALL BE 11 INCHES DEEP MINIMUM.
3. **PER CBC 11B-504.3 OPEN RISERS**: OPEN RISERS ARE NOT PERMITTED.
4. **PER CBC 11B-504.4 TREAD SURFACE**: STAIR TREADS SHALL COMPLY WITH **CBC SECTION 11B-302**. CHANGES IN LEVEL ARE NOT PERMITTED.
5. **PER CBC 11B-504.5 NOSINGS**: THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 IN 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 1/4 INCHES MAXIMUM FROM VERTICAL.
6. **PER CBC 11B-504.7 WET CONDITIONS**: STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.
7. **PER CBC SECTION 1009.15:** STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE. **PER CBC SECTION 1012.6:** WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER. **PER CBC SECTION 11B-505.10.3:** AT THE BOTTOM OF A STAIR FLIGHT, A HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12 INCHES LONG MINIMUM AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL AS MEASURED ABOVE THE STAIR NOSINGS.
8. **PER CBC SECTION 11B-504.4.1 CONTRASTING STRIPE:** INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. THE STRIPE SHALL BE A MINIMUM OF 2 INCHES WIDE TO A MAXIMUM OF 4 INCHES WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1 INCH FROM, THE NOSE OF THE STEP OR UPPER APPROACH.

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LICENSED ARCHITECT — C-17552 — STATE OF CALIFORNIA

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DATE FEBRUARY 9, 2015

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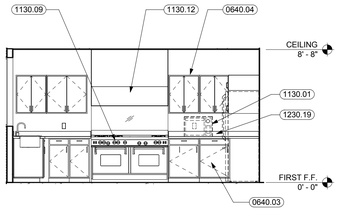
BRW PROJECT NUMBER 2140713.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1629 BUENA VISTA AVENUE
ALAMEDA, CA 94501

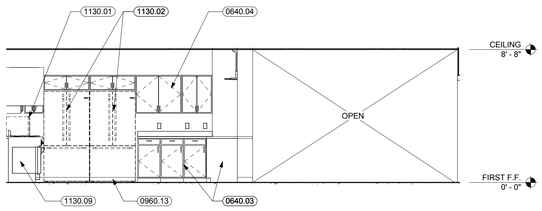
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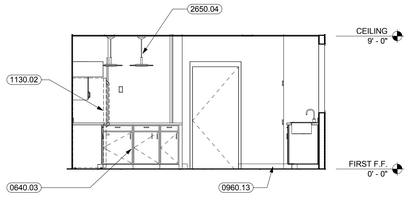
STAIR PLANS & SECTIONS



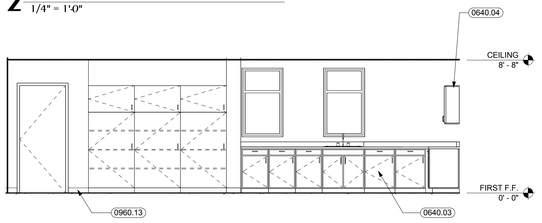
3 IE - KITCHEN 110
1/4" = 1'-0"



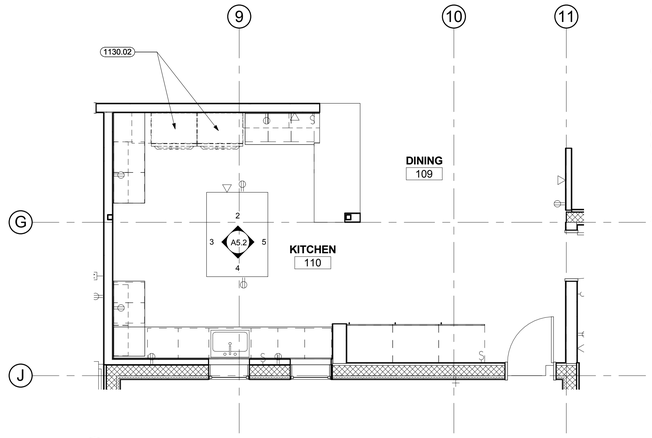
2 IE - KITCHEN 110
1/4" = 1'-0"



5 IE - KITCHEN 110
1/4" = 1'-0"



4 IE - KITCHEN 110
1/4" = 1'-0"

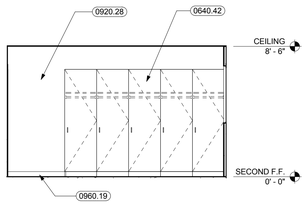


PLAN NORTH

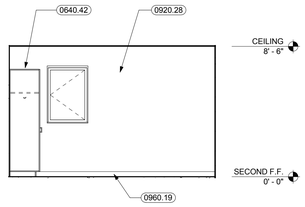
1 ENLARGED PLAN - KITCHEN & DINING 109
1/4" = 1'-0"

KEYNOTES

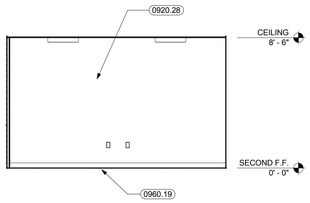
0640.03	PLASTIC LAMINATE VENEER BASE CABINETS WITH ADJUSTABLE SHELVES
0640.04	PLASTIC LAMINATE VENEER WALL CABINETS WITH ADJUSTABLE SHELVES
0640.42	PLASTIC LAMINATE WARDROBE
0850.01	FIXED ALUMINUM WINDOW
0850.02	OPERABLE ALUMINUM WINDOW
0920.28	5/8" GYPSUM BOARD (TYPE X)
0960.13	4" RESILIENT BASE
0960.19	4" RUBBER BASE
1130.01	MICROWAVE
1130.02	REFRIGERATOR
1130.09	GAS RANGE
1130.12	RANGE HOOD
1230.19	SOLID SURFACE COUNTERTOP WITH 4" SPLASH AS SHOWN
2650.04	PENDANT LIGHT FIXTURE



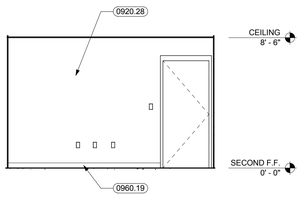
13 IE - FIREFIGHTER 203
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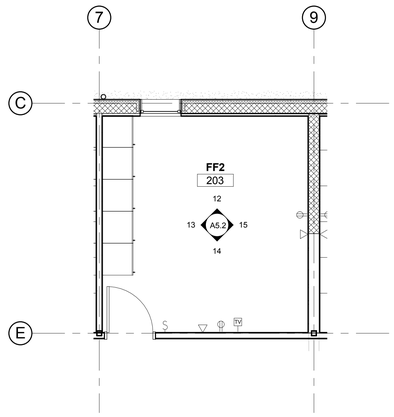
12 IE - FIREFIGHTER 203
1/4" = 1'-0"



15 IE - FIREFIGHTER 203
1/4" = 1'-0"

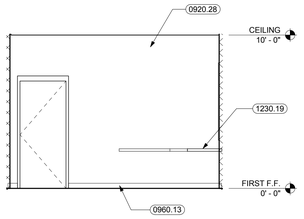


14 IE - FIREFIGHTER 203
1/4" = 1'-0"

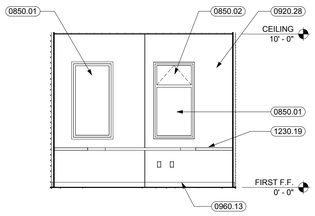


PLAN NORTH

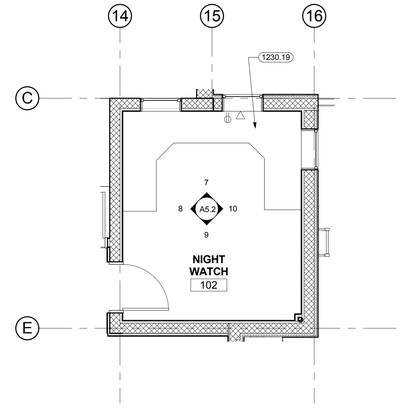
11 ENLARGED PLAN - FIREFIGHTER ROOM 203
1/4" = 1'-0"



8 IE - NIGHT WATCH 102
1/4" = 1'-0"

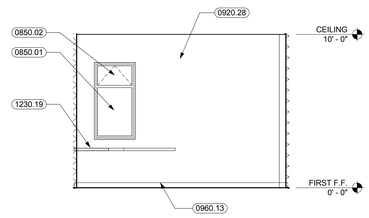


7 IE - NIGHT WATCH 102
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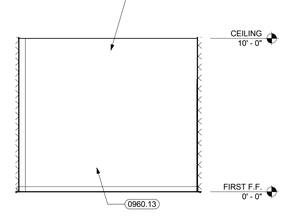


PLAN NORTH

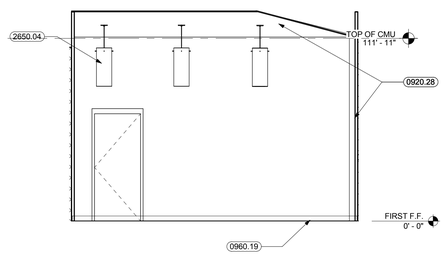
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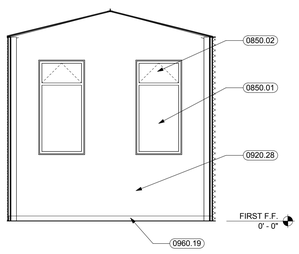
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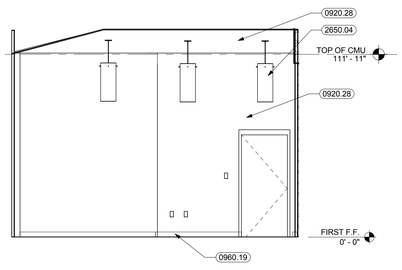
9 IE - NIGHT WATCH 102
1/4" = 1'-0"



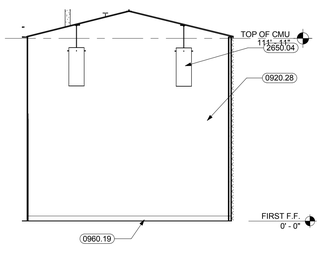
20 IE - DAY ROOM 108
1/4" = 1'-0"



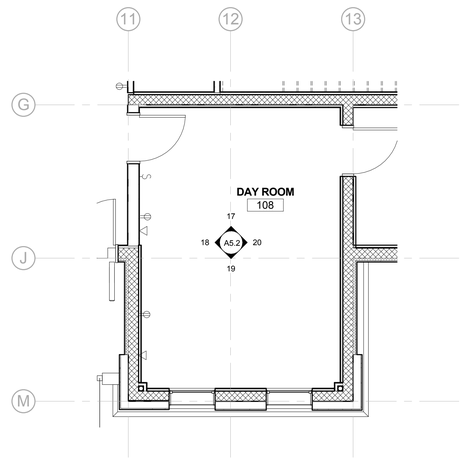
19 IE - DAY ROOM 108
1/4" = 1'-0"



18 IE - DAY ROOM 108
1/4" = 1'-0"



17 IE - DAY ROOM 108
1/4" = 1'-0"



PLAN NORTH

16 ENLARGED PLAN - DAY ROOM PLAN 108
1/4" = 1'-0"

NOT FOR CONSTRUCTION

LICENSED ARCHITECT — EDWARD REYNOLDS WATFORD — C-17552 — STATE OF CALIFORNIA

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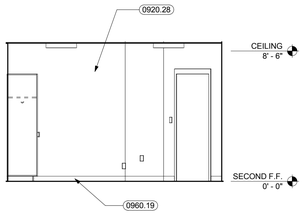
BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

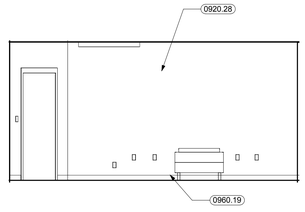
No.	Description	Date

A5.2

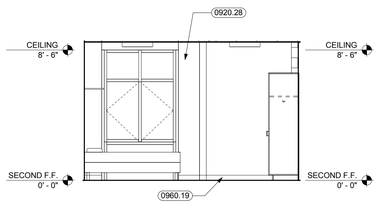
ENLARGED PLANS



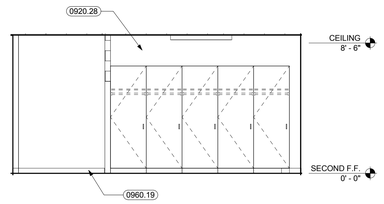
5 IE - OFFICER 201
1/4" = 1'-0"



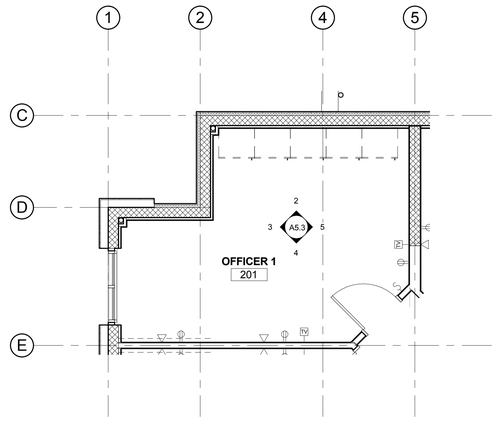
4 IE - OFFICER 201
1/4" = 1'-0"



3 IE - OFFICER 201
1/4" = 1'-0"



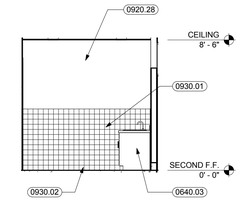
2 IE - OFFICER 201
1/4" = 1'-0"



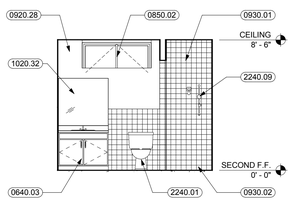
PLAN NORTH

1 ENLARGED PLAN - OFFICER ROOM 201
1/4" = 1'-0"

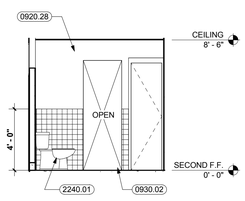
0420.14	8" CONCRETE MASONRY UNITS
0640.03	PLASTIC LAMINATE VENEER BASE CABINETS WITH ADJUSTABLE SHELVES
0640.04	PLASTIC LAMINATE VENEER WALL CABINETS WITH ADJUSTABLE SHELVES
0640.18	ADJUSTABLE SHELVING
0640.42	PLASTIC LAMINATE WARDROBE
0850.02	OPERABLE ALUMINUM WINDOW
0890.01	PREFINISHED FIXED ALUMINUM LOUVER (WITH INSECT SCREEN)
0890.05	CLOTHES DRYER VENT WITH FLAP
0920.28	5/8" GYPSUM BOARD (TYPE X)
0930.01	CERAMIC TILE
0930.02	COVED CERAMIC TILE BASE
0960.13	4" RESILIENT BASE
0960.19	4" RUBBER BASE
1020.32	STAINLESS STEEL FRAMED MIRROR
1130.06	WASHING MACHINE
1130.07	CLOTHES DRYER
1230.19	SOLID SURFACE COUNTERTOP WITH 4" SPLASH AS SHOWN
2240.01	WATER CLOSET. ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
2240.04	PORCELAIN LAVATORY
2240.09	SHOWER HEAD
2240.12	UTILITY SINK



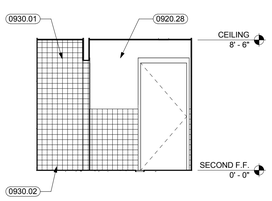
10 IE-RESTROOM 211
1/4" = 1'-0"



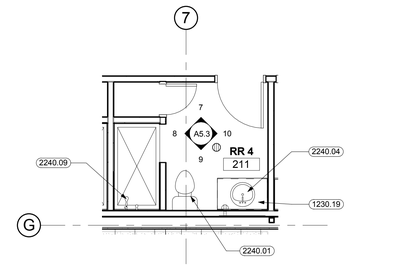
9 IE - RESTROOM 211
1/4" = 1'-0"



8 IE-RESTROOM 211
1/4" = 1'-0"

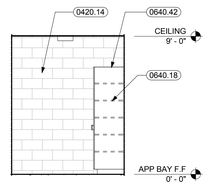


7 IE-RESTROOM 211
1/4" = 1'-0"

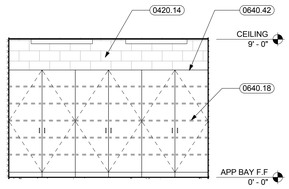


PLAN NORTH

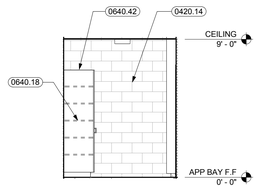
6 ENLARGED PLAN - RESTROOM 211
1/4" = 1'-0"



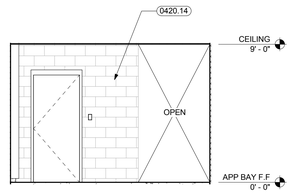
15 IE - STORAGE 116
1/4" = 1'-0"



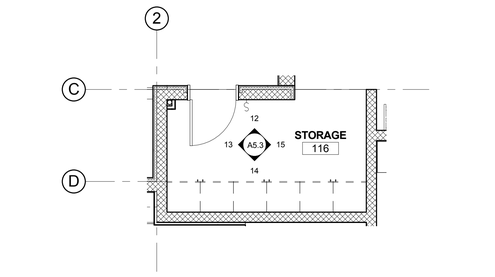
14 IE - STORAGE 116
1/4" = 1'-0"



13 IE - STORAGE 116
1/4" = 1'-0"

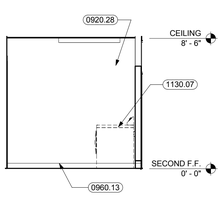


12 IE - STORAGE 116
1/4" = 1'-0"

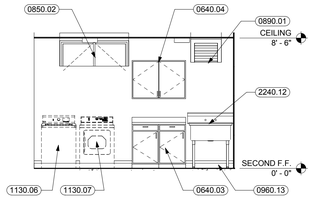


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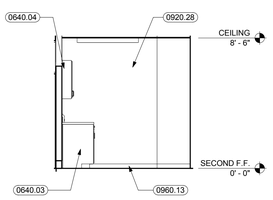
11 ENLARGED PLAN - STORAGE 116
1/4" = 1'-0"



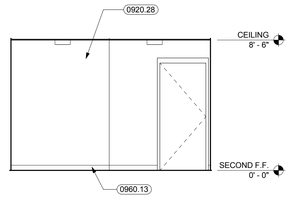
20 IE - LAUNDRY 209
1/4" = 1'-0"



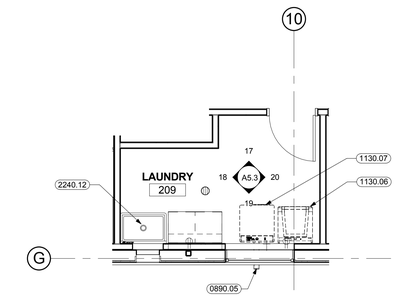
19 IE - LAUNDRY 209
1/4" = 1'-0"



18 IE - LAUNDRY 209
1/4" = 1'-0"



17 IE - LAUNDRY 209
1/4" = 1'-0"



PLAN NORTH

16 ENLARGED PLAN - LAUNDRY 209
1/4" = 1'-0"

NOT FOR CONSTRUCTION

BROWN REYNOLDS WATFORD ARCHITECTS
1620 MONTGOMERY STREET
SUITE 320
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DRAWN BY .
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BRW PROJECT NUMBER 2140713.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

A5.3

ENLARGED PLANS

ACCESSIBLE RESTROOMS

1. RESTROOMS SHALL BE ACCESSIBLE PER **CBC SECTION 11B-603.**

2. **PER CBC 11B-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 17 INCHES (432 MM) MINIMUM TO 18 INCHES (457 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (432 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN SECTION 11B-604.8.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.

3. **PER CBC 11B-604.3.1 SIZE**: CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES (1524 MM) MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES (1422 MM) MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL. A MINIMUM 60 INCHES (1524 MM) WIDE AND 48 INCHES (1219 MM) DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.

4. **PER CBC 11B-604.3.2 OVERLAP**: THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

5. **PER CBC 11B-604.8.1.1 SIZE**: WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES (1524 MM) WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES (1422 MM) DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES (1524 MM) WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 59 INCHES (1499 MM) DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.

6. **PER CBC 11B-604.8.1.1.1 MANEUVERING SPACE WITH IN-SWINGING DOOR**: IN A WHEELCHAIR ACCESSIBLE COMPARTMENT WITH AN IN-SWINGING DOOR, A MINIMUM 60 INCHES (1524 MM) WIDE BY 36 INCHES (914 MM) DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE CLEARANCE REQUIRED IN SECTION 11B-604.8.1.1.

7. **PER CBC 11B-604.8.1.1.2 MANEUVERING SPACE WITH SIDE-OPENING DOOR**: IN A WHEELCHAIR ACCESSIBLE COMPARTMENT WITH A SIDE-OPENING DOOR, EITHER IN-SWINGING OR OUT-SWINGING, A MINIMUM 60 INCHES (1524 MM) WIDE AND 60 INCHES (1524 MM) DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.

8. **PER CBC 11B-604.8.1.1.3 MANEUVERING SPACE WITH END OPENING DOOR**: IN A WHEELCHAIR ACCESSIBLE COMPARTMENT WITH AN END-OPENING DOOR (FACING THE WATER CLOSET), EITHER IN-SWINGING OR OUT-SWINGING, A MINIMUM 60 INCHES (1524 MM) WIDE AND 48 INCHES (1219 MM) DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.

9. **PER CBC 11B-604.8.1.2 DOORS; TOILET COMPARTMENT DOORS, INCLUDING DOOR HARWARE**, SHALL COMPLY WITH **CBC SECTION 11B-404** EXCEPT THAT IF THE APPROACH OF FROM THE PUSH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 48 INCHES (1219 MM) MINIMUM MEASURED PERPENDICULAR TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION. DOOR SHALL BE LOCATED IN FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (102 MM) MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH **CBC SECTION 11B-404.2.7** SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. DOOR SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS MAY SWING INTO THAT PORTION OF MANEUVERING SPACE WHICH DOES NOT OVERLAP THE CLEARANCE REQUIRED AT A WATER CLOSET.

10. **PER CBC 11B-604.4 SEATS**: THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES (432MM) MINIMUM AND 19 INCHES (483 MM) MAXIMUM TO THE TOP OF THE SEAT. SEATS SHALL NO BE SPRUNG TO RETURN TO A LIFTED POSITION. SEATS SHALL BE 2 INCHES (51 MM) HIGH MAXIMUM.

11. **PER CBC 11B-604.5.1 SIDE WALL**: THE SIDE WALL GRAB BAR SHALL BE 42 INCHES (1067 MM) LONG MINIMUM, LOCATED 12 INCHES (305 MM) MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES (1372 MM) MINIMUM FROM THE REAR WALL WITH THE FRONT END POSITIONED 24 INCHES (610 MM) MINIMUM IN FRONT OF THE WATER CLOSET.

12. **PER CBC 11B-604.5.2 REAR WALL:** THE REAR WALL GRAB BAR SHALL BE 36 INCHES (914 MM) LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305 MM) MINIMUM ON ONE SIDE AND 24 INCHES (610 MM) MINIMUM ON THE OTHER SIDE.

13. **PER CBC 11B-604.6 FLUSH CONTROLS**: FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH **CBC SECTION 11B-309** EXCEPT THEY SHALL BE LOCATED 44 INCHES (1118 MM) MAXIMUM ABOVE THE FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH **CBC SECTION 11B-604.8.2**.

14. **PER CBC 11B-604.7 DISPENSERS**: TOILET PAPER DISPENSERS SHALL COMPLY WITH **CBC SECTION 11B-309.4** AND SHALL BE 7 INCHES (178 MM) MINIMUM AND 9 INCHES (229 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER, THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 19 INCHES (483 MM) MINIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

15. **PER CBC 11B-609.2.1 CIRCULAR CROSS SECTION**: GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" (32 MM) MINIMUM AND 2 INCHES (52 MM) MAXIMUM.

16. **PER CBC 11B-609.3 SPACING**: THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2 INCHES (38 MM). THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1.2" (38 MM) MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES (305 MM) MINIMUM.

17. **CBC 11B-604.8.2 AMBULATORY ACCESSIBLE COMPARTMENTS**

18. **PER CBC 11B-604.8.2.1 SIZE**: AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE A DEPTH OF 60 INCHES (1524 MM) MINIMUM AND A WIDTH OF 35 INCHES (889 MM) MINIMUM AND 37 INCHES (940 MM) MAXIMUM.

19. **PER CBC 11B-604.8.2.2 DOORS**: TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH **CBC SECTION 11B-404**, EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 44 INCHES (1118 MM) MINIMUM. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH **CBC SECTION 11B-404.2.7** SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

20. **PER CBC 11B-604.8.2.3 GRAB BARS**: GRAB BARS SHALL COMPLY WITH SECTION 11B-609. A SIDE-WALL GRAB BAR COMPLYING WITH **CBC SECTION 11B-604.5.1** SHALL BE PROVIDED ON BOTH SIDES OF THE COMPARTMENT.

21. **PER CBC 11B-605.2 HEIGHT AND DEPTH**: URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES (432 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 1/2 INCHES (343 MM) DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.

22. **PER CBC 11B-605.4 FLUSH CONTROLS**: FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH **CBC SECTION 11B-308** EXCEPT THAT THE FLUSH CONTROL SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 44 INCHES (1118 MM) ABOVE THE FINISH FLOOR.

23. **PER CBC 11B-606.3 HEIGHT**: LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES (864) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

24. **PER CBC 11B-606.5 EXPOSED PIPES AND SURFACES**: 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.

25. **PER CBC 11B-606.7 SINK DEPTH**: SINKS SHALL BE 6 1/2 INCHES (165 MM) DEEP MAXIMUM.

26. **PER CBC 11B-306.3.3.1 MINIMUM REQUIRED DEPTH**: AT LAVATORIES REQUIRED TO BE ACCESSIBLE BY **CBC SECTION 11B-213.3.4**, THE KNEE CLEARANCE SHALL BE 27 INCHES (686 MM) HIGH MINIMUM ABOVE THE FINISH FLOOR OR GROUND AT A DEPTH OF 8 INCHES (203 MM) HIGH MINIMUM ABOVE THE FINISH FLOOR AND GROUND AT THE FRONT EDGE OF A COUNTER WITH A BUILT-IN LAVATORY OR AT THE FRONT EDGE OF A WALL-MOUNTED LAVATORY FIXTURE.

27. TACTILE EGRESS SIGNAGE TO COMPLY WITH **CBC SECTION 11B-703.**

28. ACCESSIBLE WATER CLOSET COMPARTMENT DOORS, INCLUDING THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT DOORS, SHALL BE A MINIMUM OF 34 INCHES WIDE AND EQUIPPED WITH AN AUTOMATIC CLOSING 23 DEVICE. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. **PER CBC SECTION 11B-604.8.1.2**, THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.

29. TOILET ROOM WALLS SHALL BE FINISHED WITH TILE OR FRP OVER MOISTURE RESISTANT DRYWALL TO A MINIMUM HEIGHT OF 48 INCHES ABOVE THE FLOOR **PER CBC SECTION 1210.2**, THE FLOOR OF TOILET ROOMS SHALL HAVE A HARD AND NONABSORBENT SURFACE PER CBC SECTION 1210.1.

30. PROVIDE 5 FOOT DIAMETER ACCESSIBLE CIRCLE IN `EACH RESTROOM **PER CBC SECTIONS 11B-304.3.1.**

31. AFFIX THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT ALL ACCESSIBLE ENTRANCES **PER CBC SECTION 11B-216.8.** THE SIGN SHALL BE LOCATED ADJACENT TO THE LATCH SIDE OF SINGLE DOORS AND RIGHT SIDE OF DOUBLE DOORS 60 INCHES AFF **PER CBC SECTION 11B-703.4.**

ACCESSORY MOUNTING HEIGHTS NOTES

1. **PER CBC SECTION 11B-306.3.3.1 MINIMUM REQUIRED DEPTH**: AT LAVATORIES REQUIRED TO BE ACCESSIBLE BY **CBC SECTION 11B-213.3.4**, THE KNEE CLEARANCE SHALL BE 27 INCHES (686 MM) HIGH MINIMUM ABOVE THE FINISH FLOOR OR GROUND AT A DEPTH OF 8 INCHES (203 MM) HIGH MINIMUM ABOVE THE FINISH FLOOR AND GROUND AT THE FRONT EDGE OF A COUNTER WITH A BUILT-IN LAVATORY OR AT THE FRONT EDGE OF A WALL-MOUNTED LAVATORY FIXTURE.

2. **PER CBC SECTION 11B-603.3 MIRRORS**: MIRROS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES (1016 MM) MAXIMUM ABOVE THE FINISH SLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES (889 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

3. **PER CBC SECTION 11B-603.4 COAT HOOKS, SHELVES AND MEDICINE CABINETS**: COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN SECTION 11B-308. SHELVES SHALL BE LOCATED 40 INCHES (1016 MM) MINIMUM AND 48 INCHES (1116 MM) MAXIMUM ABOVE THE FINISH FLOOR. MEDICINE CABINETS SHALL BE LOCATED WITH A USABLE SHELF NO HIGHER THAN 44 INCHES (1118 MM) MAXIMUM ABOVE THE FINISH FLOOR.

4. **PER CBC SECTION 11B-603.5 ACCESSORIES**: WHERE TOWEL OR SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, OR OTHER ACCESSORIES ARE PROVIDED IN TOILET FACILITIES, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. ALL OPERABLE PARTS, INCLUDING COIN SLOTS, SHALL BE 40 INCHES (1016 MM) MAXIMUM ABOVE THE FINISH FLOOR.

5. **PER CBC SECTION 11B-605.2 HEIGHT AND DEPTH**: URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES (432 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 1/2 INCHES (343 MM) DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.

6. **PER CBC SECTION 11B-605.4 FLUSH CONTROLS**: FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 11B-308 EXCEPT THAT THE FLUSH CONTROL SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 44 INCHES (1118 MM) ABOVE THE FINISH FLOOR.

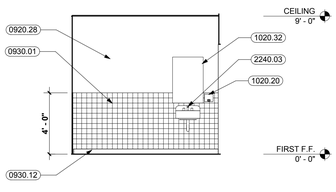
7. **PER CBC SECTION 11B-606.3 HEIGHT**: LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES (864) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

8. **PER CBC SECTION 11B-606.5 EXPOSED PIPES AND SURFACES**: 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.

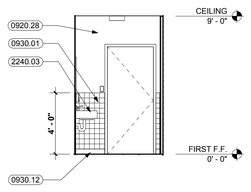
9. **PER CBC SECTION 11B-606.7 SINK DEPTH**: SINKS SHALL BE 6 1/2 INCHES (165 MM) DEEP MAXIMUM.

KEYNOTES

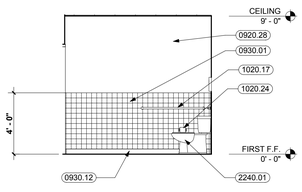
0640.46	PLASTIC LAMINATE CABINET DOOR
0920.28	5/8" GYPSUM BOARD (TYPE X)
0930.01	CERAMIC TILE
0930.02	COVED CERAMIC TILE BASE
0930.12	PORCELAIN TILE COVED BASE
1020.16	STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (36" LONG)
1020.17	STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (42" LONG)
1020.19	STAINLESS STEEL 1 1/2" DIAMETER GRAB BAR (L-SHAPED)
1020.20	SOAP DISPENSER (SURFACE-MOUNTED)
1020.24	STAINLESS STEEL SURFACE MOUNTED TOILET PAPER DISPENSER
1020.32	STAINLESS STEEL FRAMED MIRROR
1020.37	WALL-MOUNTED FOLDING SHOWER SEAT. PROVIDE BLOCKING IN WALL AS REQUIRED
1020.46	WALL MOUNTED TOILET SEAT COVER DISPENSER
1230.19	SOLID SURFACE COUNTERTOP WITH 4" SPLASH AS SHOWN
2210.06	FLOOR DRAIN
2240.01	WATER CLOSET. ORIENT FLUSH VALVE TOWARDS ACCESSIBLE SPACE AT ACCESSIBLE STALLS / RESTROOMS
2240.03	WALL-HUNG LAVATORY WITH CARRIER
2240.04	PORCELAIN LAVATORY
2240.10	HANDICAP ACCESSIBLE SHOWER HEAD



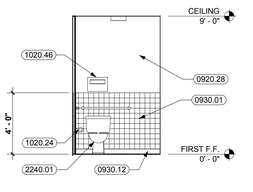
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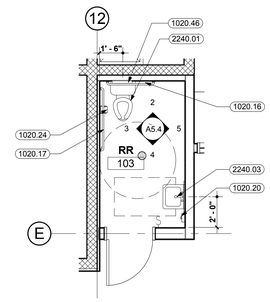
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3 IE - RESTROOM 103
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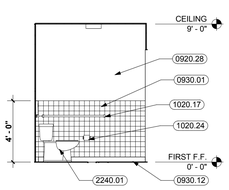


2 IE - RESTROOM 103
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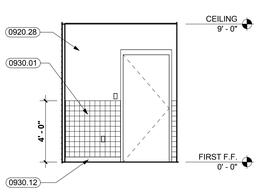


PLAN NORTH

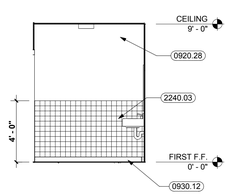
1 ENLARGED PLAN - RESTROOM 103
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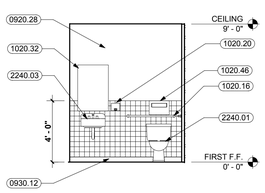
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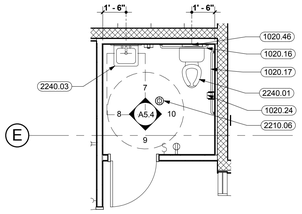
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1/4" = 1'-0"



8 IE - RESTROOM 115
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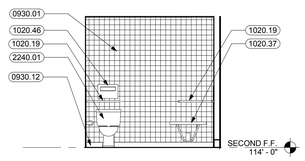


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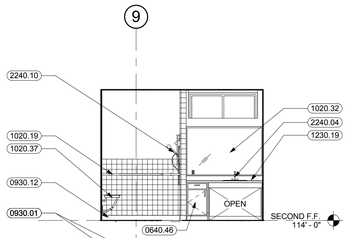


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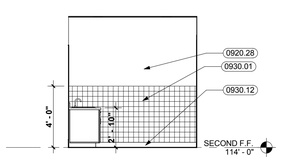
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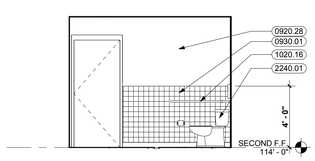
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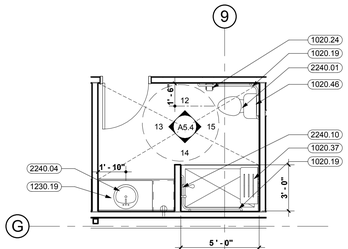
14 IE- RESTROOM 210
1/4" = 1'-0"



13 IE - RESTROOM 210
1/4" = 1'-0"



12 IE - RESTROOM 210
1/4" = 1'-0"



PLAN NORTH

11 ENLARGED RESTROOM 210 PLAN
1/4" = 1'-0"

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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1629 BUENA VISTA AVENUE
ALAMEDA, CA 94501

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DATE FEBRUARY 9, 2015

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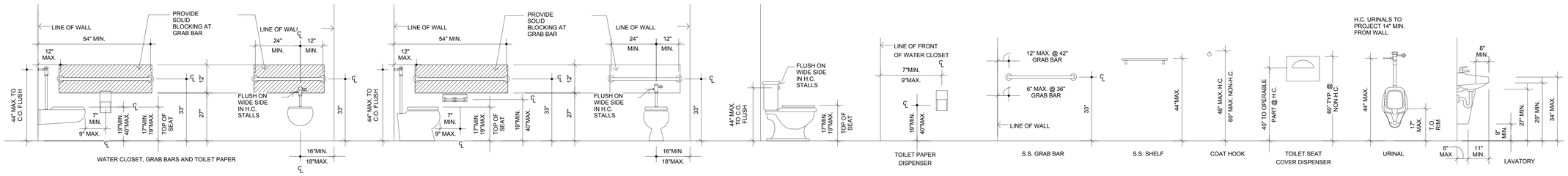
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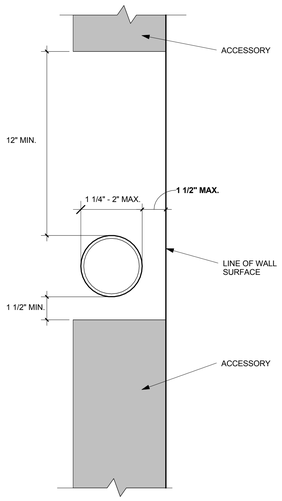
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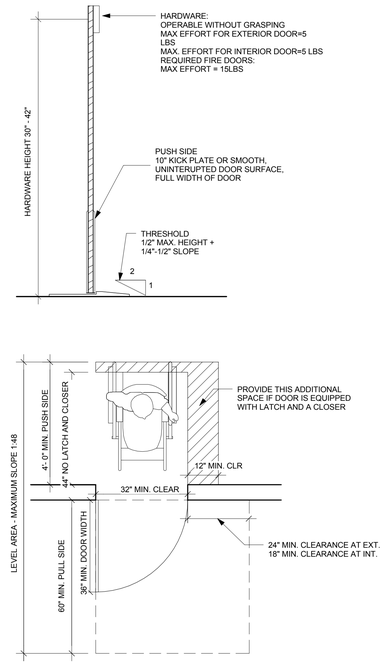
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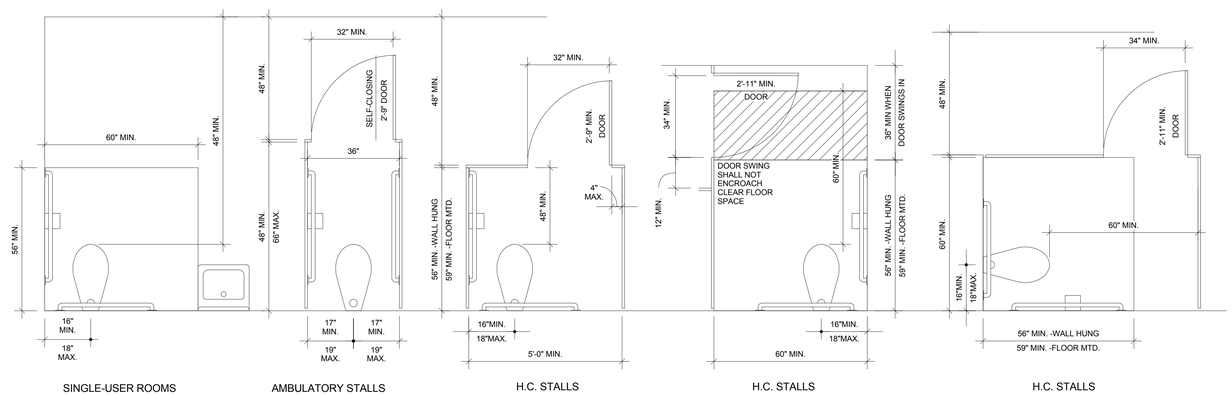
1 ACCESSIBLE MOUNTING HEIGHTS
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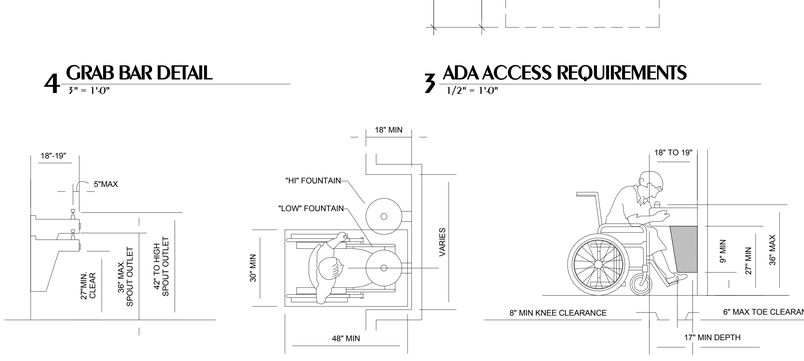
4 GRAB BAR DETAIL
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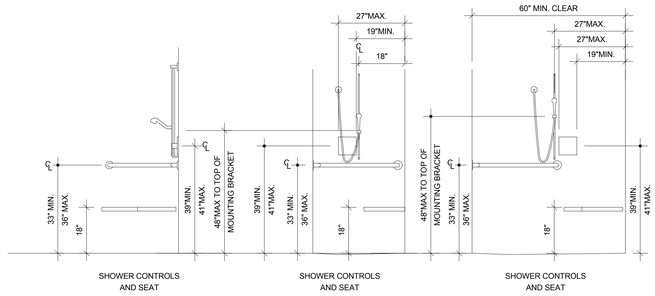
3 ADA ACCESS REQUIREMENTS
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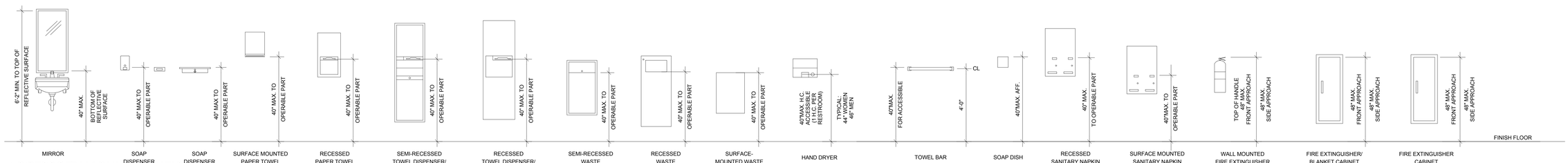
2 ACCESSIBLE RESTROOM STALLS
1/2" = 1'-0"



6 ACCESSIBLE DRINKING FOUNTAIN
1/2" = 1'-0"



5 ACCESSIBLE SHOWER
1/2" = 1'-0"



7 ACCESSORY MOUNTING HEIGHTS
1/2" = 1'-0"

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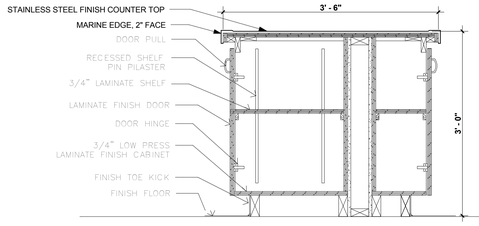
DATE FEBRUARY 9, 2015
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BRW PROJECT NUMBER 214073.00

No.	Description	Date

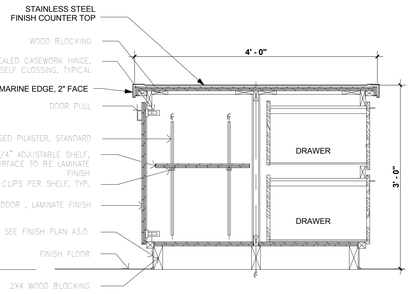
A5.5

MOUNTING HEIGHT DETAILS

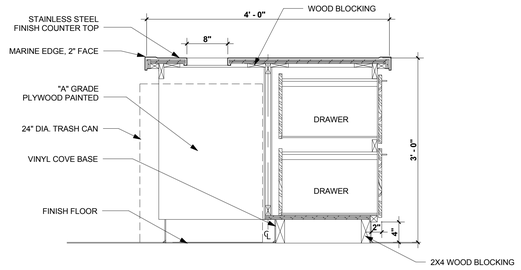
KEYNOTES



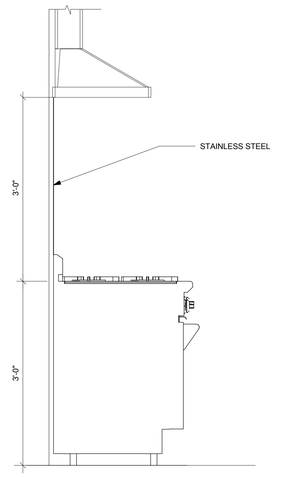
5 110E - SERVICE COUNTER
1" = 1'-0"



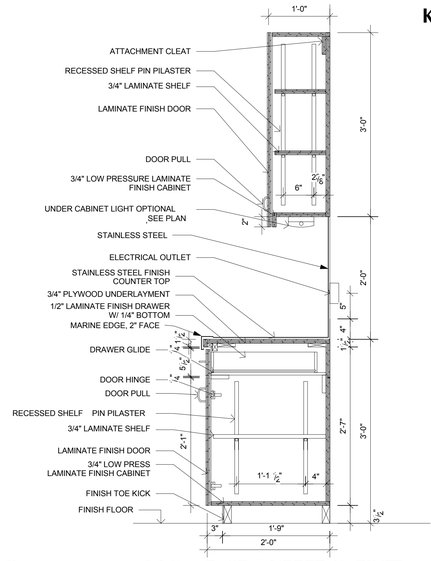
4 110D - ISLAND @ LOWER CAB
1" = 1'-0"



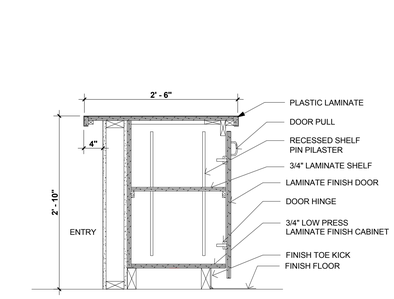
3 110C - ISLAND @ GARBAGE ALCOVE
1" = 1'-0"



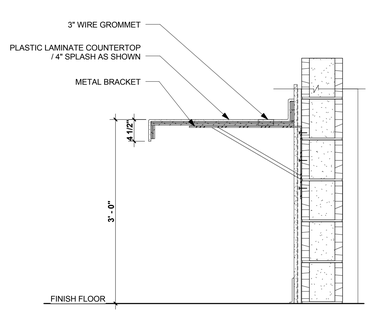
2 110B - RANGE & HOOD DETAIL
1" = 1'-0"



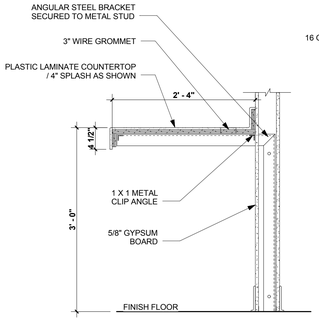
1 110A - BASE & UPPER CABINET
1" = 1'-0"



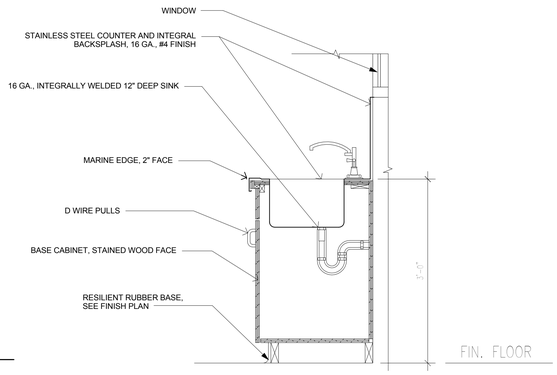
10 113A - RECEPTION COUNTER
1" = 1'-0"



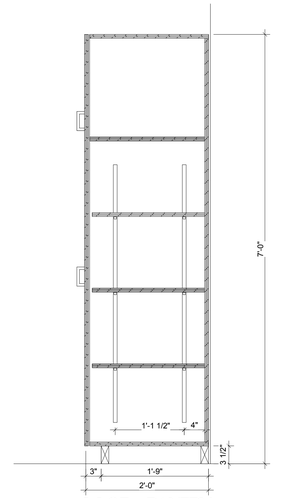
9 102B - COUNTER TOP @ CMU WALL
1" = 1'-0"



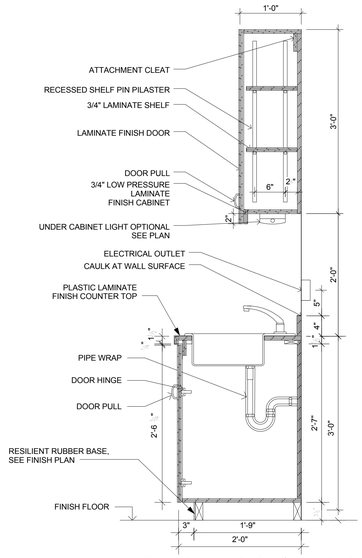
8 102A - COUNTER TOP @ STUD WALL
1" = 1'-0"



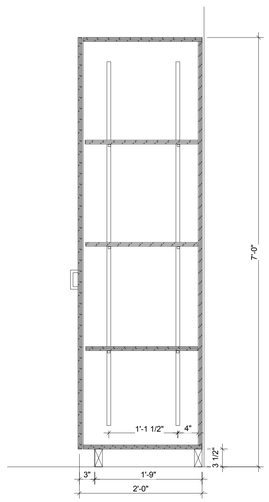
7 110G - SINK BASE W/ DOORS
1" = 1'-0"



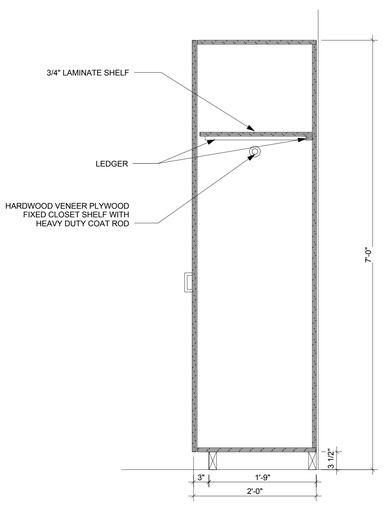
6 110F - PANTRY
1" = 1'-0"



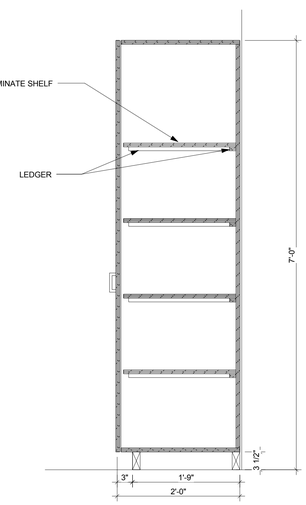
15 209A - P-LAM BASE & UPPER
1" = 1'-0"



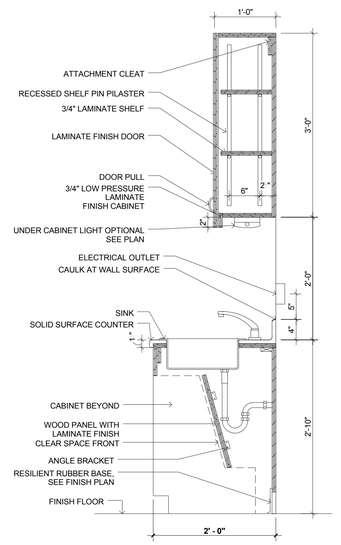
14 204B - BED LOCKER
1" = 1'-0"



13 204A - PERSONAL LOCKER
1" = 1'-0"



12 116A - EMS / SUPPLY LOCKER
1" = 1'-0"



11 114A - COFFEE BAR BASE & UPPER
1" = 1'-0"

NOT FOR CONSTRUCTION

LICENSED ARCHITECT
EDWARD LEE THOMPSON
C-17552
STATE OF CALIFORNIA

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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

A5.6

MILLWORK SECTIONS

REFLECTED CEILING PLAN NOTES

A. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION ON MECHANICAL EQUIPMENT AND LOCATION OF MECHANICAL DUCTWORK.

B. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON LIGHTING FIXTURES.

C. REFER TO FLOOR PLANS FOR FURTHER INFORMATION.

D. EXISTING THERMOSTATS ARE TO BE REINSTALLED 48" A.F.F.

E. PATCH AND REPAIR CEILING AS REQUIRED AT DEMOLITION AND NEW ONSTRUCTION.

F. REFER TO DETAILS _____, _____ & _____ FOR SEISMIC BRACING AND ACOUSTICAL CEILING.

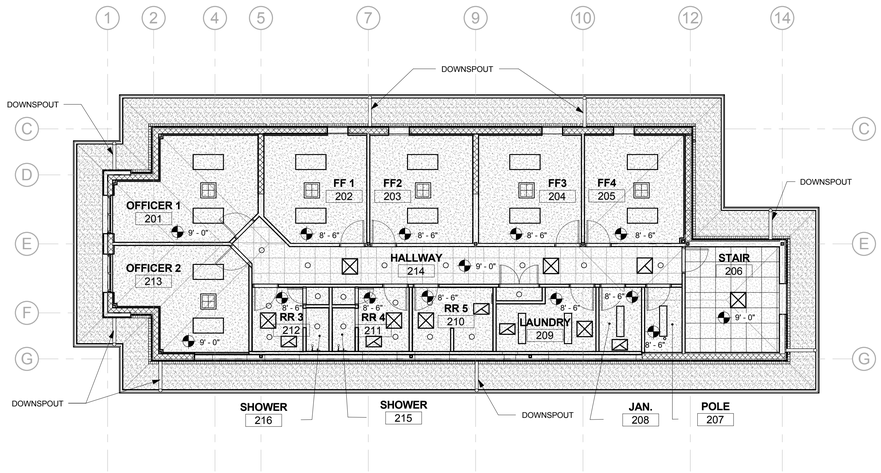
G. ALL CEILING TILE SHALL BE CLEAN AND FREE OF DEFECTS.

H. ALL LIGHT FIXTURES TO BE REMOVED SHALL BE SALVAGED FOR RELOCATION, VERIFY DISPOSITION OF ANY REMAINING FIXTURE WITH THE BUILDING MANAGEMENT.

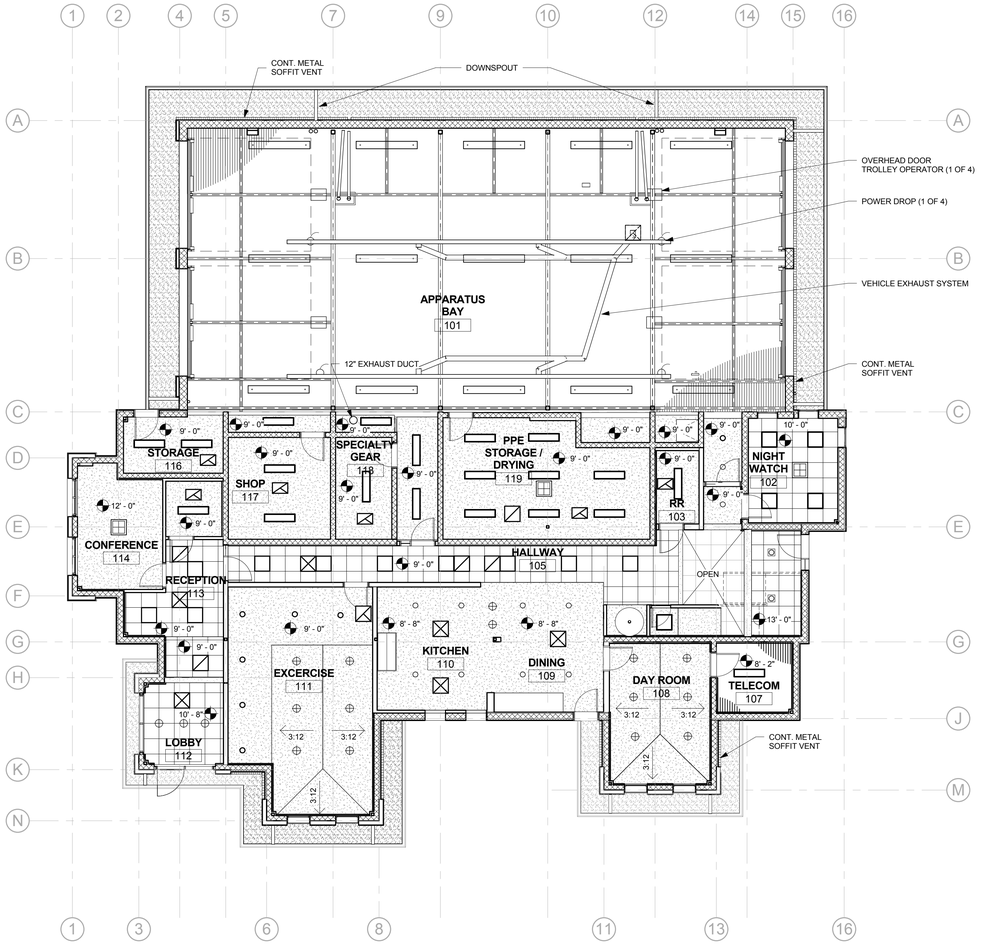
I. ALL NEW FIRE SPRINKLER HEADS ARE TO BE CENTERED IN THE MIDDLE OF HALLWAYS, OFFICES, AND CONFERENCE ROOMS. FIRE SPRINKLER HEADS ARE TO BE CENTERED IN CEILING GRID BAYS AND EQUALLY SPACED FROM LIGHT FIXTURES WHERE POSSIBLE. REFER TO DETAIL _____.

J. FIRE SPRINKLER CONTRACTOR TO COORDINATE WORK WITH THE MECHANICAL AND ELECTRICAL PLANS. NOT A PART OF THIS SUBMITTAL.

K. REFER TO THE SPRINKLER PLANS BY OTHERS FOR SPRINKLER SYSTEM DESIGN. NOT A PART OF THIS SUBMITTAL.



2 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



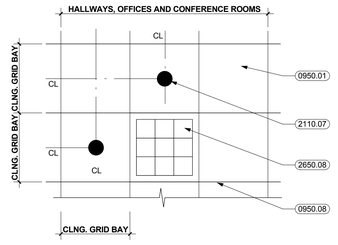
1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

KEYNOTES

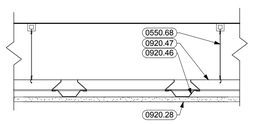
0550.57	4"x4"x3/8" STL. ANGLE W/1/2" O.D. ANCHOR BOLTS @24" O.C. - VERIFY WITH ELEVATOR MANUFACTURER IF REQUIRED
0550.68	MINIMUM OF (1) 12 GAGE WIRE ATTACHED TO FIXTURE AND ANCHORED TO STRUCTURE ABOVE FOR UPTO 56 lbs. & W/ UPRIGHT STRUTS
0550.69	ANGLE MOLDING
0550.70	FASTENER
0810.06	HOLLOW METAL DOOR
0920.08	STUD BRACE AT 4'-0" O.C. MAX.
0920.11	1/2" RESILIENT CHANNEL AT 16" O.C. HORIZONTAL
0920.28	5/8" GYPSUM BOARD (TYPE X)
0920.46	CROSS FURRING CHANNELS
0920.47	MAIN RUNNER
0950.01	SUSPENDED ACOUSTICAL LAY-IN TILE CEILING (2' X 2')
0950.08	SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
2110.07	2" FIRE SPRINKLER HEAD CUT OUT
2650.01	RECESSED LIGHT FIXTURE
2650.08	LAY-IN FLUORESCENT LIGHT FIXTURE

REFLECTED CEILING PLAN LEGEND

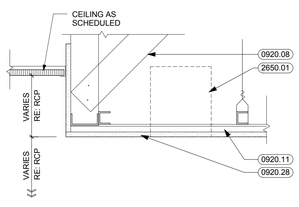
- 5/8"GYP. BOARD CEILING ON SUSPENSION SYSTEM
- 2'x2' SUSPENDED ACOUSTICAL TILE CEILING
- CEMENT PLASTER SOFFIT
- RIB DECK
- CONT. 4" METAL SOFFIT VENT
- ILLUMINATED EXIT SIGN
- 1' X 4' SURFACE MOUNTED LIGHT FIXTURE
- 2' X 4' SURFACE MOUNTED LIGHT FIXTURE
- 1 X 8' SUSPENDED CEILING LIGHT FIXTURE
- 2' X 2' LAY-IN FLUORESCENT LIGHT FIXTURE
- WALL PACK LIGHT
- FLUORESCENT DOWN LIGHT FIXTURE
- RECESSED LIGHT FIXTURE (ACT)
- PENDENT MOUNTED LIGHT FIXTURE
- SUPPLY DIFFUSER
- RETURN AIR / TRANSFER GRILLE
- EXHAUST
- VRV CEILING FAN COIL



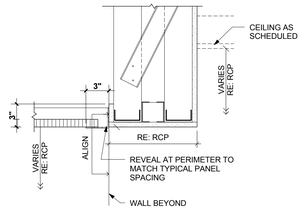
9 FIRE SPRINKLER HEAD LAYOUT
3" = 1'-0"



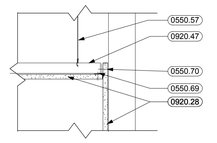
8 GYP. BOARD CEILING
1 1/2" = 1'-0"



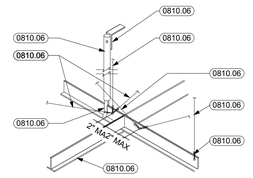
6 SOFFIT TRANSITION
1 1/2" = 1'-0"



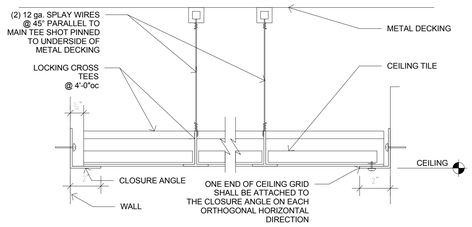
5 ACOUSTICAL CEILING AT HEADER
1 1/2" = 1'-0"



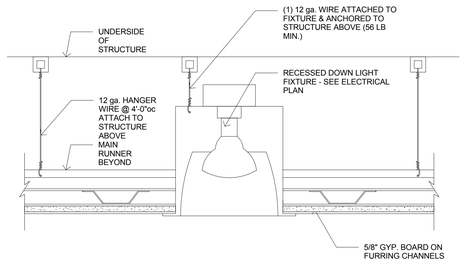
4 GYP. BOARD CEILING TRANSITION
1 1/2" = 1'-0"



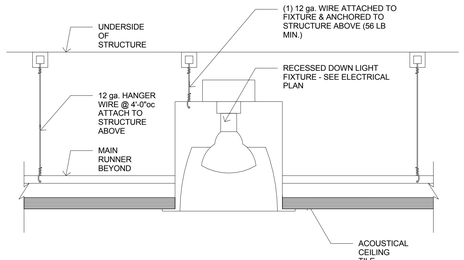
3 ACOUSTICAL CEILING DETAIL
1 1/2" = 1'-0"



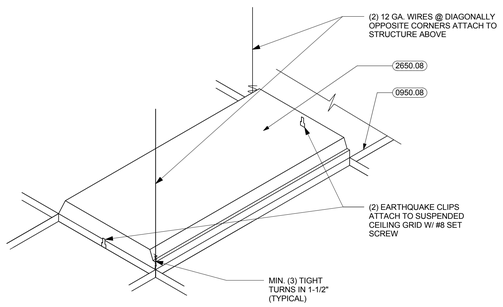
13 SUSPENDED CEILING AT CLOSURE ANGLE
3" = 1'-0"



12 RECESSED LT. @ GYP BD CEILING
3" = 1'-0"



11 RECESSED LT. @ SUSPENDED CEILING
3" = 1'-0"



10 LAY-IN FIXTURE ATTACHMENT
3" = 1'-0"

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LICENSED ARCHITECT — C-17552 — STATE OF CALIFORNIA

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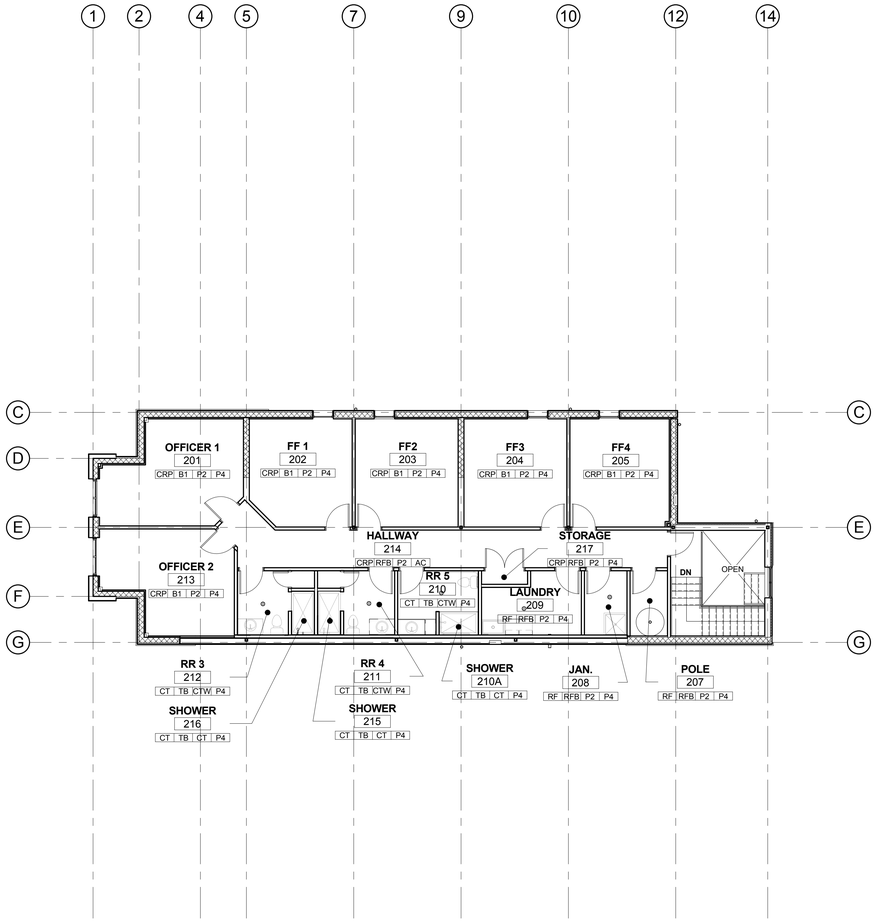
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

A6.1

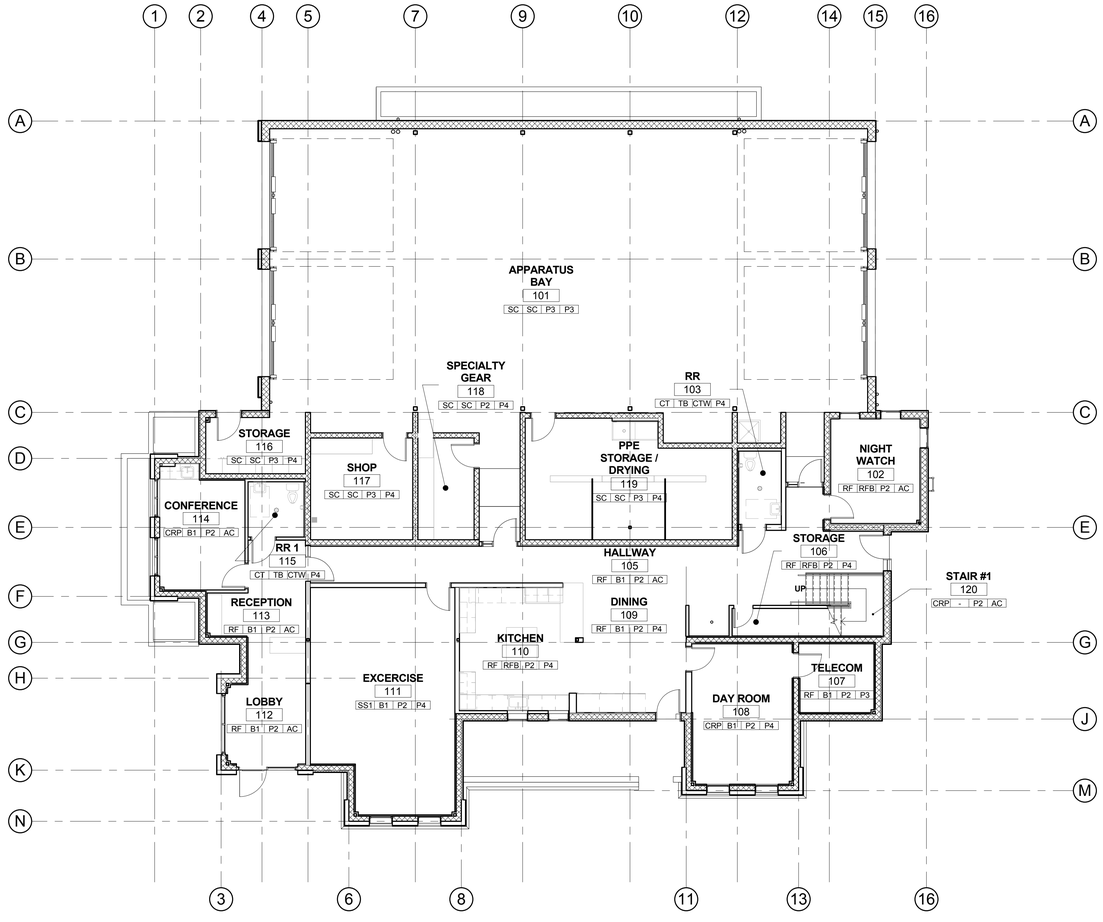
REFLECTED CEILING PLANS AND DETAILS

KEYNOTES



PLAN NORTH

2 SECOND FLOOR FINISH PLAN
1/8" = 1'-0"



PLAN NORTH

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

FINISH LEGEND

ROOM FINISH KEY

X	X	X	X	FIELD
X	-	X	-	ACCENT

FLOOR FINISH
BASE FINISH
WALL FINISH
CEILING FINISH

X — SPECIAL FINISH KEY

FINISHES

SC	SEALED CONCRETE
RF	RESILIENT FLOORING
RFB	COVED RESILIENT FLOOR BASE
CRP	SHEET CARPETING
SS1	SOLID SURFACING - SPORTS FLOOR
B1	4" RUBBER BASE
E1	EPOXY COATING
P1	PAINT - STUCCO
P2	PAINT - DRYWALL WALL
P3	PAINT - EXPOSED STRUCTURE
P4	PAINT - DRYWALL CEILING
PT	PORCELAIN TILE
CT	CERAMIC TILE
CTW	CERAMIC TILE WAINSCOT
TB	COVED TILE BASE
FRP	FIBER REINFORCED PANEL
AC	2X2 SUSPENDED ACOUSTICAL CEILING
O	OPEN TO ABOVE

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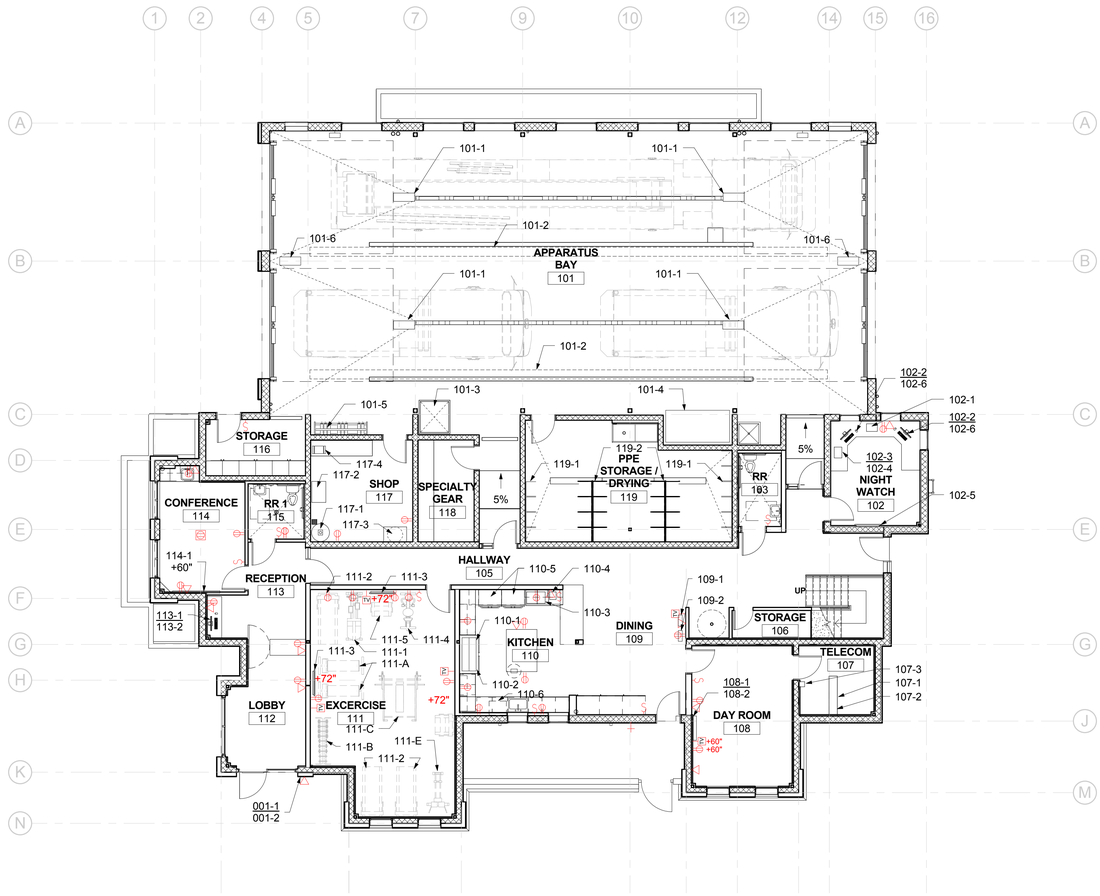
CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

A7.1

FINISH PLANS

Room	Equipment	Number	Owner Provided	Contractor Provided	Rough-in by Contractor: Power	Plumb.	Air	Data / Jack / Connection	Structural Backing / Blocking	Gas	Remarks
EQUIPMENT											
APPARATUS BAY 101											
	OH DOOR OPERATORS	101-1		X	X						
	TAIL-PIPE EXHAUST SYSTEM	101-2		X	X						
	HOSE DRYER	101-3	X		X						
	SCBA REFILL (FUTURE)	101-4	X		X						
	SPARE HOSE RACK	101-5	X								
	OVERHEAD SERVICE COILS	101-6									
NIGHTWATCH 102											
	PRINTER / COPIER	102-1	X								
	COMPUTER & MONITOR (2)	102-2	X								
	BASE RADIO	102-3	X								
	CHARGING STATION	102-4	X								
	T.V.	102-5	X								
	PHONE (2)	102-6	X								
COMM./ELEC. ROOM 107											
	SERVER RACK	107-1		X							
	PATCH PANELS	107-2		X							
	PHONE	107-3	X								
	SERVERS & MONITOR	107-4	X								
	UPS SYSTEM	107-5	X								
DAY ROOM 108											
	T.V.	108-1	X								
	DVR / RECEIVER	108-2	X								
DINING 109											
	DOORBELL HANDSET	109-1		X	X			X			
	WALL-MOUNTED PHONE	109-2		X				X			
KITCHEN 110											
	RANGE VENT AND HOOD	110-1		X					X		
	GAS RANGE	110-2		X						X	
	MICROWAVE	110-3	X								
	COFFEE MAKER	110-4	X								
	REFRIGERATOR (2)	110-5	X								
	DISHWASHER	110-6		X		X					
EXERCISE 111											
	ELLIPTICAL MACHINE	111-1	X								
	TREADMILL / STAIRS	111-2	X								
	T.V.	111-3	X						X		
	STATIONARY BIKE	111-4	X								
	STAIR MACHINE	111-5	X								
LOBBY 112											
	PUBLIC PHONE	112-1		X							
WORKSTATION ALCOVE 113											
	PHONE	113-1	X								
	COMPUTER & MONITOR	113-2	X								
CONFERENCE ROOM 114											
	SMARTBOARD	114-1	X						X		
APPARATUS STORAGE 116											
SHOP/TOOL ROOM 117											
	COMPRESSOR	117-1		X							
	BATTERY CHARGER	117-2	X								
	SOLVENT SINK	117-3	X								
	GRINDER	117-4	X								
PPE STORAGE 119											
	WALL-MOUNTED PPE RACKS (10)	119-1		X					X		
	FREE-STANDING PPE RACKS (16)	119-2		X							
OFFICER BEDROOM 201											
	PHONE	201-1	X								
	COMPUTER	201-2	X								
FIREFIGHTERS BEDROOM 202											
	PHONE	202-1	X								
	COMPUTER	202-2	X								
FIREFIGHTERS BEDROOM 203											
	PHONE	203-1	X								
	COMPUTER	203-2	X								
FIREFIGHTERS BEDROOM 204											
	PHONE	204-1	X								
	COMPUTER	204-2	X								
FIREFIGHTERS BEDROOM 205											
	PHONE	205-1	X								
	COMPUTER	205-2	X								
LAUNDRY 209											
	WASHER	209-1	X			X					
	DRYER	209-2	X								
OFFICER BEDROOM 213											
	PHONE	213-1	X								
	COMPUTER	213-2	X								
BUILDING EXTERIOR 001											
	DOORBELL W/ CAMERA	001-1		X	X			X			
	911 PHONE	001-2	X		X						
	SECURITY CAMERA	001-3	X		X						



1 1ST FLOOR EQUIPMENT PLAN
1/8" = 1'-0"
PLAN NORTH



2 2ND FLOOR - EQUIPMENT PLAN
1/8" = 1'-0"
PLAN NORTH

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DATE FEBRUARY 9, 2015
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BRW PROJECT NUMBER 2140733.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-2114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

A8.1

FIRST AND SECOND FLOOR EQUIPMENT PLANS

MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING ALL DRAWINGS AND COORDINATING WITH ALL OTHER TRADES PRIOR TO START OF WORK AND PURCHASING OF EQUIPMENT. ADVISE CITY OF ALAMEDA IN WRITING IN THE EVENT A CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL BEAR ALL COSTS FOR RELOCATION OF EQUIPMENT, PIPING, ETC., FROM FAILURE TO PROPERLY COORDINATE INSTALLATIONS AND ADVISE OF THE CONFLICT IN WRITING PRIOR TO INSTALLATION.
2. IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS, FIRE INSURANCE CARRIER'S REQUIREMENTS AND CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. PROMPTLY NOTIFY THE CITY OF ALAMEDA IN WRITING OF ANY SUCH DIFFERENCE.
3. EQUIPMENT, DUCTWORK AND PIPING AS SHOWN ON DRAWINGS ARE SCHEMATIC AND SHALL BE FABRICATED AND INSTALLED ON ACTUAL FIELD MEASUREMENT. DO NOT SCALE DRAWINGS FOR EXACT LOCATION OF EQUIPMENT, DUCTWORK AND PIPING. COORDINATE WITH OTHER TRADES AS REQUIRED.
4. PLANS ARE BASED ON ANTICIPATED EQUIPMENT SIZE AND CONFIGURATION. CONTRACTOR SHALL MODIFY ARRANGEMENT TO SUIT ACTUAL PURCHASED EQUIPMENT AS REQUIRED FOLLOWING THE CRITERIA ESTABLISHED BY THESE PLANS. DEPARTURES FROM THE CONTRACT DRAWING RESULTING FROM CHANGES IN EQUIPMENT SIZES AND CONFIGURATIONS, OR RE-ARRANGEMENTS TO ACCOMMODATE FIELD CONDITIONS SHALL BE SUBMITTED IN DETAIL FOR CITY OF ALAMEDA'S APPROVAL.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SHALL REPAIR ADJACENT NEW SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY NEW WORK.
6. CONFORM TO LATEST NFPA 90A "STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS".
7. COORDINATE INSTALLATION OF ALL EQUIPMENT, DUCTWORK AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF PANELS PRIOR TO INSTALLATION. INSTALL EQUIPMENT, DUCTWORK AND PIPING TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES.
8. DUCT SIZES SHOWN ARE MINIMUM INSIDE DIMENSION.
9. EXACT LOCATION OF CEILING MOUNTED EQUIPMENT, AIR INLETS AND OUTLETS INCLUDING ACCESS PANELS SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE CEILING MOUNTED EQUIPMENT, AIR INLETS AND OUTLETS WITH CEILING SUPPORTS MEMBERS AND LOCATE CLEAR OF CEILING MEMBERS.
10. ALL NEW MATERIALS AND EQUIPMENT INSTALLED ABOVE CEILING SHALL BE NON-COMBUSTIBLE AND U.L. APPROVED. ALL NEW WIRING SHALL BE NON-COMBUSTIBLE AND SHALL BE ENCLOSED IN METAL CONDUIT.
11. PROVIDE READILY VISIBLE NON-FUSIBLE DISCONNECT SWITCHES FOR ALL NEW EQUIPMENT. COORDINATE WITH OTHER TRADES.
12. HANDLE, STORE AND INSTALL ALL EQUIPMENT, PIPING AND DUCTWORK PER MANUFACTURER'S INSTRUCTIONS. ALL EQUIPMENT, PIPING AND DUCTWORK SHALL BE PROTECTED FROM THE WEATHER ELEMENTS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE FUNCTIONALITY OF THE EQUIPMENT INCLUDING CONTROL ITEMS ASSOCIATED WITH THE PROJECT.
14. PROVIDE EQUIPMENT CLEARANCES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
15. EQUIPMENT OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICES, CIRCUIT BREAKERS, AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED WITHOUT COST TO THE CITY OF ALAMEDA. IF MINIMUM ENERGY RATINGS OR EFFICIENCIES ARE SPECIFIED, EQUIPMENT SHALL COMPLY WITH REQUIREMENTS.
16. CONTRACTOR IS TO MAINTAIN RECORDED "AS-BUILT" INFORMATION ON ALL EXISTING SERVICES UNCOVERED DURING CONSTRUCTION AND ALL NEW SERVICES BEING INSTALLED. "AS-BUILT" INFORMATION SHALL BE CLEARLY MARKED IN COLORED PENCIL ON A PRINT OF THE CONTRACT DRAWING. RECORDED INFORMATION SHALL INCLUDE ROUTING AND INVERT ELEVATIONS. AT THE COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL TURN RECORDED "AS-BUILT" INFORMATION OVER TO THE CITY OF ALAMEDA AND CONTRACTOR TO BE COORDINATED WITH AS BUILT REQUIREMENTS IN SPECIFICATION.
17. ARRANGE ALL PIPING WITHIN STRUCTURES NEATLY ALONG WALLS AND/OR IN NEAT, HORIZONTAL GROUPS AND MAINTAIN REQUIRED SLOPES.
18. DO NOT SLEEVE STRUCTURAL MEMBERS WITHOUT CONSENT OF A LICENSED STRUCTURAL ENGINEER AND THE CITY OF ALAMEDA. REVIEW STRUCTURAL DRAWINGS PRIOR TO PLACING ANY SLEEVES.
19. DO NOT SPRING OR FORCE PIPING DURING INSTALLATION.
20. CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE WITH NEW AND/OR RECONNECT ALL EXISTING SERVICES AS REQUIRED BY NEW CONSTRUCTION.
21. INSTALL ALL DUCTS AND PIPING CONCEALED IN FURRED CEILING AND CHASES UNLESS OTHERWISE INDICATED.
22. SLOPE ALL PIPING AS INDICATED. TRUE TO LINE AND GRADE, AND FREE OF TRAPS AND AIR POCKETS.
23. WHEN POSSIBLE, INSTALL VALVES ACCESSIBLE FROM FLOOR LEVEL.
24. DO NOT INSTALL VALVES WITH STEM POINTING DOWNWARD UNLESS INDICATED OTHERWISE.
25. PROVIDE VALVES AND OTHER PIPING SPECIALTIES SAME SIZE AS LINE SIZE UNLESS INDICATED OTHERWISE.
26. PROVIDE A HANGER NOT MORE THAN 12-INCHES FROM THE POINT OF CHANGE OF DIRECTION OF A DUCT AND PIPE RUN IN BOTH HORIZONTAL AND VERTICAL PLANE.
27. DO NOT SUPPORT PIPING OR VALVES FROM PIECES OF EQUIPMENT.
28. CONNECTION BETWEEN ALL DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC ISOLATING UNIONS, OR GASKETED FLANGES WITH ISOLATED THROUGH BOLTS.
29. PROVIDE FLEXIBLE CONNECTIONS AT PIECES OF ISOLATED EQUIPMENT ONLY AS SHOWN ON THE DETAILS OR AS SPECIFIED.
30. SUPPORTS FOR ALL DUCTWORK AND PIPING SHALL BE IN ACCORDANCE WITH THE LATEST SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PIPING SYSTEMS" AND MSS SP-58 AND SP-69. DUCTWORK AND PIPING HANGERS SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF DUCTWORK AND PIPING INCLUDING THE WEIGHT OF THE CONTENTS OF THE DUCT AND PIPING.
31. SECURELY FASTEN DUCTWORK AND PIPING WITHIN STRUCTURES TO THE BUILDING CONSTRUCTION BY MEANS OF HANGERS, SUPPORTS, GUIDES, ANCHORS, AND SWAY BRACES TO MAINTAIN DUCTWORK AND PIPING ALIGNMENT, TO PREVENT SAGGING, AND TO PREVENT NOISE AND EXCESSIVE STRAIN ON DUCTWORK AND PIPING DUE TO MOVEMENT UNDER OPERATING CONDITIONS.
32. CERTAIN VERTICAL AND HORIZONTAL OFFSETS ARE SHOWN IN DUCTWORK AND PIPING ON PLANS TO INDICATE THE GENERAL POSITION RELATIONSHIP OF THE SYSTEMS. PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN, AS REQUIRED TO COORDINATE WITH INSTALLATION REQUIREMENTS OF OTHER SYSTEMS.
33. PIPE SIZES SHOWN ARE NOMINAL DIAMETER.
34. CONTRACTOR TO PROVIDE SUBMITTALS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
35. REFER TO SPECIFICATIONS FOR ADDITIONAL RESPONSIBILITIES AS PART OF THE CONTRACT DOCUMENTS.
36. PROVIDE MERV 13 FILTERS FOR ALL AIR CONDITIONING UNITS, UNLESS NOTED OTHERWISE. INSTALL NEW FILTERS AFTER CONSTRUCTION AND PRIOR TO OCCUPANCY.
37. PROVIDE POLLUTANT CONTROL PER 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 5-504.
38. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2013 EDITION OF THE CALIFORNIA PLUMBING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA BUILDING CODE, CALIFORNIA GREEN BUILDING STANDARD CODE AND CALIFORNIA ENERGY COMMISSION TITLE 24 INCLUDING LATEST CITY ADOPTED.
39. PRIOR TO OCCUPANCY, THE HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS BY AN INDEPENDENT AIR BALANCE CONTRACTOR. CERTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR FOR AIR BALANCE OF AIR CONDITIONING SYSTEMS.
40. PROVIDE ALL TRANSITION IN DUCTWORK REQUIRED TO CROSS PIPING OR OTHER OBSTRUCTIONS. MAINTAIN EQUIVALENT CROSS-SECTIONAL AREA WITH MINIMUM DUCT SIZE 6" INSIDE DIMENSION. DUCT SHALL TRANSITION BACK TO ORIGINAL SIZE UPON PASSING ANY OBSTRUCTIONS
41. PROVIDE VOLUME DAMPERS FOR EACH BRANCH DUCTWORK. PROVIDE VOLUME DAMPER AT THE END OF THE RIGID DUCT WHERE THE DUCT IS TO BE CONNECTED TO THE NEW FLEXIBLE DUCT AND AIR OUTLET AND INLET. VOLUME DAMPERS SHALL BE LOW LEAKAGE WITH SHAFT SEAL, AND REMOVABLE AND REVERSIBLE HANDLE.
42. FLEXIBLE DUCT SHALL BE 6 FT. MAXIMUM IN LENGTH. DO NOT INSTALL RIBBED TYPE FLEXIBLE DUCTWORK.
43. ALL SEAMS AND CONNECTIONS IN DUCTWORK AND INSULATION SHALL BE SEALED WITH TWO LAYERS OF FABRIC AND MASTIC.
44. ALL DUCTWORK PASSING THROUGH RATED WALLS SHALL BE PROVIDED WITH APPROVED TYPE FIRE DAMPERS OR FIRE SMOKE DAMPERS.
45. COOPERATE WITH OTHER TRADES TO LOCATE EXPOSED PIPING RUNS, AIR OUTLET AND INLET LOCATIONS, EXPOSED DUCT RUNS, ETC. TO FORM A FULLY COORDINATED CEILING PATTERN AND VISUAL APPEARANCE AS INDICATED ON ARCHITECTURAL DRAWINGS.
46. FLEXIBLE DUCT CONNECTIONS MAY BE USED AS LONG AS THERE ARE NO KINKS OR BENDS AND ARE OF FULL RADIUS OTHERWISE UTILIZE HARD CONNECTION FITTINGS.
47. FLEXIBLE DUCT TO BE INSTALLED PER SMACNA STANDARD AND CONFIGURED TO ASSURE FULL AIR DELIVERY AT OUTLETS WITHOUT INCREASING SYSTEM STATIC PRESSURE.
48. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION: AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.

MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION
	DN	DOWN OR DROP
	UP	RISE OR RISER
	CL	CAPPED LINE
DD	DD	SMOKE DUCT DETECTOR
	SA	SUPPLY AIR DUCT SECTION
	RA/OA	RETURN AIR DUCT/OUTSIDE AIR DUCT SECTION
	EA	EXHAUST AIR DUCT SECTION
T AC-1	T'STAT	THERMOSTAT (LABEL INDICATES EQUIPMENT)
– –		MECHANICAL EQUIPMENT TAG
X Y		SUPPLY AIR DIFFUSER WITH FLEXIBLE CONNECTION (DUCTWORK) X-SUPPLY SYMBOL I.D., Y-AIR FLOW, CFM (REFER TO AIR OUTLET AND INLET SCHEDULE)
X Y		EXHAUST AIR GRILLE WITH DUCTWORK X-EXHAUST SYMBOL I.D., Y-AIR FLOW, CFM (REFER TO AIR OUTLET AND INLET SCHEDULE)
X Y		RETURN AIR GRILLE WITH DUCTWORK X-RETURN SYMBOL I.D., Y-AIR FLOW, CFM (REFER TO AIR OUTLET AND INLET SCHEDULE)
10 X 6		DUCTWORK (1ST NUMBER INDICATES SIDE SHOWN), NET INSIDE DIMENSION
6Ø	6Ø	ROUND DUCTWORK, NET INSIDE DIMENSION
		LINED DUCTWORK (OR PLENUM)
UP		DUCT RISE
DN		DUCT DROP
		ROUND DUCT UP
		ROUND DUCT DOWN
		SUPPLY AIR DUCT UP
		SUPPLY AIR DUCT DOWN
		RETURN AIR DUCT UP
		RETURN AIR DUCT DOWN
		EXHAUST AIR DUCT UP
		EXHAUST AIR DUCT DOWN
		DUCT TRANSITION
		RECTANGULAR TO ROUND DUCT TRANSITION
	TV	SQUARE/RECTANGULAR ELBOW WITH TURNING VANES
		ROUND ELBOW
UC	UC	DOOR UNDERCUT
1 --		DETAIL NUMBER / SHEET NUMBER
A --		SECTION LETTER / SHEET NUMBER
E		FURNISHED AND INSTALLED BY ELECTRICAL
AD		AREA SMOKE DETECTOR
	VD	VOLUME DAMPER
TI		MANUAL TWIST TIMER
		STATUS INDICATOR LIGHT
BT		BYPASS TIMER

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
@	AT	(N)	NEW
ABBREV	ABBREVIATIONS	NC	NOISE CRITERION
ABV	ABOVE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AC	AIR CONDITIONING	NIC	NOT IN CONTRACT
ADA	AMERICANS WITH DISABILITIES ACT	#/NO	NUMBER
AFF	ABOVE FINISHED FLOOR	NOM	NOMINAL
ALT	ALTERNATE	NTS	NOT TO SCALE
AMPS	AMPERES	OC	ON CENTER
APPROX	APPROXIMATE	OPER	OPERATING
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERANT AND AIR CONDITIONING ENGINEERS	OSA	OUTSIDE AIR
		%	PERCENT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	PD	PRESSURE DROP
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	PH	PHASE
AWWA	AMERICAN WATER WORKS ASSOCIATION	POC	POINT OF CONNECTION
BDD	BACK DRAFT DAMPER	PL	PLATE
BLKG	BLOCKING	PSIG	POUNDS PER SQUARE INCH, GAGE
BLW	BELOW	PT	PREASURE TREATED
BTUH	BRITISH THERMAL UNITS PER HOUR	QTY	QUANTITY
CAP	CAPACITY	RA	RETURN AIR
CD	CONDENSATE	REF	REFERENCE
CEC	CALIFORNIA ENERGY COMMISSION	REFRIG	REFRIGERANT
CFM	CUBIC FEET PER MINUTE	REQ'D	REQUIRED
℄	CENTERLINE	RPM	REVOLUTIONS PER MINUTE
CMC	CALIFORNIA MECHANICAL CODE	SA	SUPPLY AIR
CONN	CONNECTION	SK	SINK
CONT	CONTINUATION	SM	SHEET METAL
DB	DRY BULB	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
Dba	DECIBEL A		
DEF	DEFLECTION	SMS	SHEET METAL SCREW
DEG	DEGREES	SP	STATIC PRESSURE
DIA Ø	DIAMETER	SPC	STATIC PRESSURE CONTROL
DN	DOWN	SPECS	SPECIFICATION
DWGS	DRAWINGS	SQ	SQUARE
(E)	EXISTING	SQ. FT.	SQUARE FEET
EA	EXHAUST AIR	SS	STAINLESS STEEL
EAT	ENTERING AIR TEMPERATURE	STD	STANDARD
EER	ENERGY EFFICIENCY RATIO	TA	TRANSFER AIR
ELEV	ELEVATION	TEMP	TEMPERATURE
ENT	ENTERING	T'STAT	THERMOSTAT
EQUIP	EQUIPMENT	TYP	TYPICAL
EWT	ENTERING WATER TEMPERATURE	UL	UNDERWRITERS LABORATORY
EXT	EXTERNAL	UNO	UNLESS NOTED OTHERWISE
°F	DEGREES FAHRENHEIT	V/VOLT	VOLTAGE
FCU	FAN COIL UNIT	VAC	VOLT AMPERE CURRENT
FE	FUME EXHAUST	VD	MANUAL VOLUME DAMPER
FE-CS	FUME EXHAUST - COATED STEEL	VEL	VELOCITY
FH	FUME HOOD	VRV / VRF	VARIABLE REFRIGERANT VOLUME / FLOW
FIN	FINISH	W/	WITH
FLR	FLOOR	WB	WET BULB
FPM	FEET PER MINUTE	WT	WEIGHT
FSC	FAN SPEED CONTROL		
FT	FEET		
GA	GAUGE		
GALV	GALVANIZED		
H/L	HIGH AND LOW PRESSURE GAS PIPING		
HP	HORSEPOWER		
HVAC	HEATING, VENTILATION AND AIR CONDITIONING		
HZ	HERTZ		
Ø/ID	INSIDE DIAMETER / IDENTIFICATION		
IEQ	INDOOR ENVIROMENTAL QUALITY		
IN	INCH(ES)		
IN. W.G.	INCHES WATER GAUGE		
"WC	INCH WATER COLUMN		
"WG	INCH WATER GAUGE		
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		
LEED	LEADERSHIP IN ENERGY & ENVIROMENTAL DESIGN		
LVG	LEAVING		
LWT	LEAVING WATER TEMPERATURE		
MAX	MAXIMUM		
MBH	1000 BTUH		
MCA	MINIMUM CIRCUIT AMPS		
MERV	MINIMUM EFFICIENCY REPORTING VALUE		
MFA	MAXIMUM FUSE AMPERES		
MFR	MANUFACTURER		
MIN	MINIMUM		
MOCP	MAXIMUM OVER CURRENT PROTECTION		
MVD	MANUAL VOLUME DAMPER		
MSS	MANUFACTURERS STANDARD SOCIETY		
MSS SP-58	PIPE HANGERS AND SUPPORTS - MATERIALS DESIGN AND MANUFACTURE		
MSS SP-69	PIPE HANGERS AND SUPPORTS - SELECTION AND APPLICATION		

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DATE	FEBRUARY 9, 2015
DRAWN BY	PW
CHECKED BY	AK
BRW PROJECT NUMBER	214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1677 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

M0.1

MECHANICAL GENERAL NOTES, LEGEND & ABBREVIATIONS

MECHANICAL VENTILATION FAN SCHEDULE

EQUIP. I.D.	LOCATION	AREA SERVED	FAN TYPE	AIR FLOW RATE	TOTAL EXT. S.P.	FAN RPM	DRIVE TYPE	MOTOR RATING	ELECTRICAL CHARACTERISTICS	OPERATING WEIGHT	MAXIMUM RADIATED SOUND LEVEL	VIBRATION ISOLATION	REMARKS	MANUFACTURER OR APPROVED EQUAL
				CFM	IN. W.G.			HP	VOLT/PH/HZ	LBS	Dba/SONES			
EF-1.1	INDOOR	RR 1, 115	CEILING EXHAUST FAN	70	0.35	809	DIRECT	60W	120/1/60	30	36/1.6	NONE	SEE NOTES 1, 2, 3 BELOW	COOK MODEL GC-144
EF-1.2	INDOOR	STORAGE, 116	CEILING EXHAUST FAN	180	0.35	1,231	DIRECT	156W	120/1/60	30	49/4.9	NONE	SEE NOTES 1, 2, 4 BELOW	COOK MODEL GC-184
EF-1.3	INDOOR	SHOP, 117	CEILING EXHAUST FAN	240	0.35	1,142	DIRECT	151W	120/1/60	60	41/2.9	NONE	SEE NOTES 1, 2, 4 BELOW	COOK MODEL GC-420
EF-1.4	INDOOR	SPECIALTY GEAR, 118	CEILING EXHAUST FAN	180	0.35	1,231	DIRECT	156W	120/1/60	30	49/4.9	NONE	SEE NOTES 1, 2, 4 BELOW	COOK MODEL GC-184
EF-1.5	INDOOR	PPE STORAGE / DRYING, 104	INLINE EXHAUST FAN	650	0.30	1,287	DIRECT	272W	120/1/60	70	42/3.2	NONE	SEE NOTES 2, 5, 6 BELOW	COOK MODEL GN-720
EF-1.6	INDOOR	RR 2, XXX	CEILING EXHAUST FAN	70	0.25	741	DIRECT	57W	120/1/60	30	33/1.1	NONE	SEE NOTES 1, 2, 3 BELOW	COOK MODEL GC-144
EF-1.7	OUTDOOR	APPARATUS BAY, 101	ROOFTOP UP-BLAST EXHAUST FAN	4,800	0.35	2,703	BELT	3	208/3/60	500	85/-	VIBRATION ISOLATORS	SEE NOTES 8, 9 BELOW	COOK MODEL 150 CPS
EF-1.8	INDOOR	EXERCISE, 111	CEILING EXHAUST FAN	160	0.25	1,155	DIRECT	129W	120/1/60	30	45/3.6	NONE	SEE NOTES 1, 2, 7 BELOW	COOK MODEL GC-164
EF-2.1	INDOOR	RR 3, 212	CEILING EXHAUST FAN	70	0.25	741	DIRECT	57W	120/1/60	30	33/1.1	NONE	SEE NOTES 1, 2, 3 BELOW	COOK MODEL GC-144
EF-2.2	INDOOR	RR 4, 211	CEILING EXHAUST FAN	70	0.25	741	DIRECT	57W	120/1/60	30	33/1.1	NONE	SEE NOTES 1, 2, 3 BELOW	COOK MODEL GC-144
EF-2.3	INDOOR	RR 5, 210	CEILING EXHAUST FAN	70	0.25	741	DIRECT	57W	120/1/60	30	33/1.1	NONE	SEE NOTES 1, 2, 3 BELOW	COOK MODEL GC-144
EF-2.4	INDOOR	LAUNDRY, 209	CEILING EXHAUST FAN	100	0.25	929	DIRECT	76W	120/1/60	30	39/1.9	NONE	SEE NOTES 1, 2, 4 BELOW	COOK MODEL GC-144
EF-2.5	INDOOR	JANITOR, 208	CEILING EXHAUST FAN	60	0.25	736	DIRECT	49W	120/1/60	26	34/1.3	NONE	SEE NOTES 1, 2, 4 BELOW	COOK MODEL GC-124

NOTES:
1. PROVIDE PAINTED STEEL OR ALUMINUM GRILLES, INTEGRAL BACKDRAFT DAMPERS AND FAN SPEED CONTROLS (FSC). COORDINATE PAINT FINISHES WITH ARCHITECT PRIOR TO START OF WORK.
2. PROVIDE FSC FOR EACH FAN FOR AIR BALANCING PURPOSES ONLY. MOUNT FSC ON FANS (ABOVE CEILING).
3. EXHAUST FANS SHALL INTERLOCK WITH LIGHTS AND OCCUPANCY SENSOR CONTROLLED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. EXHAUST FANS SHALL BE CONTROLLED BY A MANUAL TWIST TIMER. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE INLINE INSTALLATION, INTEGRAL BACKDRAFT DAMPERS AND FSC.
6. EXHAUST FAN SHALL OPERATE CONTINUOUSLY, 24/7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. EXHAUST FAN SHALL INTERLOCK WITH ASSOCIATED AC UNIT, AC-1.2. FAN SHALL TURN ON/OFF BASED UPON ASSOCIATED AC UNIT OPERATION. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. EXHAUST FAN SHALL INTERLOCK W/ APPARATUS BAY DOORS. EXHAUST FAN SHALL RUN 5 MINUTES ON OPENING AND CLOSING OF APPARATUS BAY DOORS AND ASSOCIATED MOTORIZED EXTERIOR WALL LOUVER DAMPERS UPON OPERATION. PROVIDE STATUS INDICATOR LIGHT AND 1-HR BYPASS TIMER SWITCH. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
9. PROVIDE WEATHER COVER/OSHA BELT GAURD, LOW LEAKAGE BACKDRAFT DAMPER, OUTLET SAFETY SCREEN AND ACCESS DOOR.

AIR INLET AND OUTLET SCHEDULE

SYMBOL	TYPE	CEILING TYPE	AIRFLOW RANGE	PANEL SIZE	NECK SIZE	REMARKS	MANUFACTURER OR APPROVED EQUAL
			CFM	INCHES	INCHES		
A1	PERFORATED FACE MODULAR CORE SA DIFFUSER	GYP. BD.	0-170	24X24	8X8	SEE NOTES BELOW	KRUEGER MODEL 1240P
A2	PERFORATED FACE MODULAR CORE SA DIFFUSER	GYP. BD.	171-270	24X24	10X10	SEE NOTES BELOW	KRUEGER MODEL 1240P
A3	PERFORATED FACE MODULAR CORE SA DIFFUSER	GYP. BD.	271-390	24X24	12X12	SEE NOTES BELOW	KRUEGER MODEL 1240P
A4	PERFORATED FACE MODULAR CORE SA DIFFUSER	GYP. BD.	391-540	24X24	14X14	SEE NOTES BELOW	KRUEGER MODEL 1240P
A5	PERFORATED FACE MODULAR CORE SA DIFFUSER	T-BAR	171-270	24X24	10X10	SEE NOTES BELOW	KRUEGER MODEL 1240P
A6	35 DEG. ADJ., 3/4" BLADE SPACING SA GRILLE	SIDEWALL	400-525	--	20X8	SEE NOTES BELOW	KRUEGER MODEL 880H
A7	35 DEG. ADJ., 3/4" BLADE SPACING SA GRILLE	SIDEWALL	0-200	--	12X8	SEE NOTES BELOW	KRUEGER MODEL 880H
B1	PERFORATED FACE RA	GYP. BD.	880	20X20	18X18	SEE NOTES BELOW	KRUEGER MODEL 1190
B2	35 DEG. FIXED 3/4" BLADE SPACING RA GRILLE	SIDEWALL	600	--	24X8	SEE NOTES BELOW	KRUEGER MODEL S80H
B3	35 DEG. FIXED 3/4" BLADE SPACING RA GRILLE	SIDEWALL	400	--	20X8	SEE NOTES BELOW	KRUEGER MODEL S80H
B4	PERFORATED FACE RA	T-BAR	0-1400	24X24	22X22	SEE NOTES BELOW	KRUEGER MODEL 6490
B5	PERFORATED FACE RA	T-BAR	0-400	24X24	12X12	SEE NOTES BELOW	KRUEGER MODEL 6490
C1	EGG CRATE RA GRILLE	GYP. BD.	4800	48X30	--	SEE NOTES BELOW	KRUEGER MODEL EGC-5
C2	35 DEG. FIXED 3/4" BLADE SPACING EA GRILLE	GYP. BD.	650	--	16X16	SEE NOTES BELOW	KRUEGER MODEL S80H
D1	PERFORATED FACE TA	T-BAR	0-400	24X24	12X12	SEE NOTES BELOW	KRUEGER MODEL 6490
D2	35 DEG. FIXED 3/4" BLADE SPACING TA GRILLE	GYP. BD.	0-400	--	14X14	SEE NOTES BELOW	KRUEGER MODEL S80H

NOTES:
1. AIR INLET AND OUTLET PERFORMANCE DATA: MAX. VELOCITY 500 FPM, MAX. NOISE CRITERION 30 NC AND MAX. STATIC PRESSURE 0.06 SP.
2. ALL AIR INLETS AND OUTLETS SHALL BE STEEL CONSTRUCTION.
3. ALL AIR INLETS AND OUTLETS SHALL BE PAINTED TO MATCH ADJACENT WALL AND/OR CEILING COLORS. COORDINATE FINISHES WITH ARCHITECT PRIOR TO START OF WORK.

GRAVITY RELIEF HOOD SCHEDULE

EQUIP. I.D.	LOCATION	AREA SERVE	CFM	SP	HOOD VELOCITY	THROAT SIZE LENGTH X WIDTH	HOOD HEIGHT	THROAT FREE AREA	HOOD SIZE LENGTH X WIDTH	WEIGHT	REMARKS	MANUFACTURER OR APPROVED EQUAL
					FPM	IN.	IN.	SQ.FT.	IN.	LBS.		
GR-1.1	ROOF	FIRST FLOOR	1,550	0.05	550	12 X 12	11	1.0	28 X 24	150	SEE NOTES BELOW	COOK MODEL GR

NOTES:
1. PROVIDE ALUMINUM HOOD AND BIRDSCREEN.
2. PROVIDE ROOF CURB AND LOW LEAKAGE GRAVITY BACKDRAFT DAMPER.

PACKAGED ROOFTOP GAS HEATING / ELECTRIC COOLING AIR-CONDITIONING UNIT SCHEDULE

EQUIP. I.D.	LOCATION	AREA SERVE	SUPPLY FAN/MOTOR DATA						POWER EXHAUST FAN & ECONOMIZER					REFRIGERANT COOLING COIL DATA					GAS FURNACE DATA							COMPRESSOR DATA				EER/ SEER	ELECTRICAL	MOCP	MCA	SOUND LEVEL	VIBRATION ISOLATION	OPER. WT.	REMARKS	MANUFACTURER OR APPROVED EQUAL
			TYPE	AIR FLOW RATE	ESP	O.A.	ELECTRICAL	MOTOR RATING	TYPE	AIR FLOW RATE	ESP	MOTOR RATING @ 208V3PH/60HZ	FLA	COOLING CAPACITY, MBH	ENTERING AIR TEMP.,°F		LEAVING AIR TEMP.,°F		INPUT HEATING CAPACITY	OUTPUT HEATING CAPACITY	AFUE/STEADY STATE EFFICIENCY	ENT. AIR TEMP.	LVG. AIR TEMP.	GAS INLET CONN.	HEATING STAGES	TYPE	QTY	CAPACITY STEPS	REFRIGERANT TYPE								
				CFM	IN W.G.	CFM	V/PH/HZ	HP		CFM	IN W.G.	HP		TOTAL	DB	WB	DB	WB	MBH	MBH	%	°F	°F	IN				%			V/PH/HZ	AMPS	AMPS	dB		LBS		
AC-1.1	OUTDOOR	FIRST FLOOR	BELT	3,000	1.60	455	208/3/60	-	CENTRIFUGAL	3,000	0.5	1	3.3	89.0	77.0	62	55	52.0	120.0	96.0	-/80	70.0	100.0	1/2	1	SCROLL	2	-	R410A	12.6/-	208/3/60	50	41.9	88	VIBRATION ISO CURB	2,480	SEE NOTES BELOW	TRANE MODEL YHC092
AC-1.2	OUTDOOR	EXERCISE, 111	DIRECT DRIVE	800	0.91	270	208/1/60	306 W	--	--	--	--	--	23.4	81.0	63.0	57.0	54.0	64.0	50.6	79.0/--	65.0	90.0	1/2	2	RECIPRO-CATING	1	-	R410A	12.0/14.0	208/1/60	25	16.5	68	VIBRATION ISO CURB	945	SEE NOTES BELOW	TRANE MODEL 4YCY4024

NOTES:
1. PROVIDE FRESH AIR INTAKE FOR AC-1.
2. PROVIDE 100% DRY-BULB TYPE ECONOMIZER FOR AC-1.1.
3. PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR AC-1.1.
4. OUTDOOR UNIT CAPACITIES ARE BASED ON OUTDOOR DESIGN TEMPERATURE OF 82 DEG. F DB / 64 DEG. F WB DURING COOLING PERIOD AND 35 DEG. F FOR HEATING PERIOD.
5. PROVIDE CENTRIFUGAL MODULATING POWER EXHAUST (BY MICROMETL MODEL PECD-PRC67-2F FOR AC-1.1 OR APPROVED EQUAL) WITH SPACE STATIC PRESSURE. INSTALL PRESSURE TUBING WITH STATIC PRESSURE SENSOR PLATE BY KELE MODEL RPS-W.
   A. ELECTRICAL SHALL PROVIDE ONE DISCONNECT SWITCH AND SINGLE FEED FOR UNIT AND POWER EXHAUST.
   B. RELIEF AIR CFM TO MATCH SUPPLY AIR CFM APPROXIMATELY (WITHIN 10% OF DESIGN SUPPLY AIR FLOW).
   C. POWER EXHAUST FLA NOT INCLUDED WITH UNIT'S MOCP AND MCA IN SCHEDULE. COORDINATE WITH ELECTRICAL FOR PROPER WIRE SIZING TO THE UNIT, ADD POWER EXHAUST FLA TO UNIT.
   D. SPACE PRESSURE TUBING (SPT) FURNISHED AND INSTALLED BY CONTRACTOR. ROUTE SPT INSIDE SPACE AWAY FROM DOORS, OPERABLE WINDOWS, AND MIN. 3 FT. AWAY FROM SUPPLY AND RETURN AIR GRILLES
6. PROVIDE MERV 13 FILTERS FOR ALL UNITS.
7. ALL UNITS SHALL MEET THE 2013 TITLE 24 REQUIREMENTS.
8. PROVIDE ECONOMIZER FAULT DETECTION AND DIAGNOSTIC (FDD) PER 2013 CEC TITLE 24 FOR AC-1.1.
9. PROVIDE 2" DEFLECTION STRUCTURALLY CALCULATED 18" TALL ISOLATION ROOF CURB BY MICROMETL MODEL 0403-432-08B FOR AC-1.1 AND 24" TALL ISOLATION ROOF CURB BY MICROMETL MODEL 0403-1213E-14B FOR AC-1.2 OR APPROVED EQUAL.

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DATE FEBRUARY 9, 2015
DRAWN BY PW
CHECKED BY AK
BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02.3114
1627 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

M0.2

MECHANICAL EQUIPMENT SCHEDULES

SPLIT SYSTEM AIR CONDITIONING (OUTDOOR UNIT) SCHEDULE

EQUIP. I.D.	LOCATION	SERVICE FCU EQUIP. I.D.	TYPE	COOLING TOTAL CAPACITY MBH	EER/SEER	REFRIGERANT COOLING COIL				COMPRESSOR DATA		MOCP @ 208V/1PH/60HZ	MINIMUM CIRCUIT AMPS @ 208V/1PH/60HZ	SOUND LEVEL	VIBRATION ISOLATION	APPROX. OPER. WT.	REMARKS	MANUFACTURER OR APPROVED EQUAL
						TYPE	GAS LINE CONN.	LIQUID LINE	CD LINE	TYPE	QUANTITY							
							IN.	IN.	IN.			AMPS	AMPS	Dba/SONES		LBS		
CU-1.1	OUTDOOR	SEE SPLIT INDOOR UNIT SCHEDULE	AIR-COOLED CONDENSING UNIT	18,000	12.7/18.6	R410A	5/8	3/8	1	INVERTER	1	20.0	17.0	49/-	NEOPRENE PADS	300	SEE NOTES BELOW	DAIKIN MODEL RZR18PVJU

NOTES:
1. CONDENSING UNIT, CU-1.1 FOR PROCESS COOLING ONLY.
2. CAPACITY BASED ON OUTDOOR DESIGN TEMPERATURES OF 82 DEG. F DB/ 64 DEG. F WB DURING COOLING PERIOD.

SPLIT SYSTEM AIR CONDITIONING (INDOOR UNIT) SCHEDULE

EQUIP. I.D.	LOCATION	AREA SERVE	TYPE	REFRIGERANT COOLING COIL	EXT. SP.	SUPPLY AIR FLOW RATE	OUTDOOR AIR FLOW RATE	FAN MOTOR RATING @ 208V/1PH/60HZ	RUNNING CURRENT @ 208V/1PH/60HZ	AIR FILTER	MAXIMUM RADIATED SOUND LEVEL	VIBRATION ISOLATION	OPERATING WEIGHT	REMARKS	MANUFACTURER OR APPROVED EQUAL
				COOLING CAPACITY MBH TOTAL											
					IN. W.G.	CFM	CFM	HP	AMPS		Dba/SONES		LBS		
FC-1.1	INDOOR	TELECOM, 107	DUCTLESS HI-WALL MOUNTED UNIT	18,000	–	400	–	SEE NOTES BELOW	SEE NOTES BELOW	SEE NOTES BELOW	43/-	NONE	60	SEE NOTES BELOW	DAIKIN MODEL FAQ18PVJU

NOTES:
1. INDOOR FAN COIL UNIT FOR PROCESS COOLING ONLY. PROVIDE CONDENSATE PUMP AND POWER SUPPLIED BY FCU.
2. CAPACITY BASED ON OUTDOOR DESIGN TEMPERATURE OF 82 DEG. F DB/ 64 DEG. F WB DURING COOLING PERIOD.
3. PROVIDE MOLD RESISTANT PERMANENT WASHABLE RESIN NET FILTER FOR FAN COIL.
4. PROVIDE INSULATION FOR REFRIGERANT AND CONDENSATE DRAIN PIPING PER MANUFACTURER'S GUIDELINES.
5. INDOOR UNITS ELECTRICAL REQUIREMENTS ARE INCLUDED WITH ASSOCIATED OUTDOOR UNIT MOCP AND MCA. SEE SPLIT SYSTEM OUTDOOR UNIT SCHEDULE.
6. UNIT SHALL MEET THE 2013 TITLE 24 REQUIREMENTS.

SPLIT SYSTEM VRV HEAT RECOVERY AIR CONDITIONING (OUTDOOR UNIT) SCHEDULE

EQUIP. I.D.	LOCATION	SERVICE FCU EQUIP. I.D.	TYPE	COOLING/ HEATING CAPACITY MBH	EER/COP / COP @ 47 DEG. F	REFRIGERANT COOLING COIL				COMPRESSOR DATA			MOCP @ 208V/3PH/60HZ	MINIMUM CIRCUIT AMPS @ 208V/3PH/60HZ	SOUND LEVEL	VIBRATION ISOLATION	APPROX. OPER. WT.	REMARKS	MANUFACTURER OR APPROVED EQUAL
						TYPE	H/L GAS LINE CONN.	GAS LINE CONN.	LIQUID LINE CONN.	TYPE	QUANTITY	CAPACITY CONTROL							
				TOTAL			IN.	IN.	IN.			%			Dba/SONES		LBS		
CU-2.1	OUTDOOR	SEE VRV INDOOR UNIT SCHEDULE	VRV HEAT RECOVERY AIR-COOLED CONDENSING UNIT	92.0/103.0	1311/3.7/2.3	R410A	3/4	7/8	3/8	SCROLL	1	14-100	45.0	43.8	58/-	NEOPRENE PADS	1,460	SEE NOTES BELOW	DAIKIN MODEL REYQ96PTJU

NOTES:
1. CAPACITIES BASED ON OUTDOOR DESIGN TEMPERATURES OF 82 DEG. F DB/64 DEG. F WB DURING COOLING PERIOD AND 35 DEG. F FOR HEATING PERIOD.
2. UNIT SHALL MEET THE 2013 TITLE 24 REQUIREMENTS.

SPLIT SYSTEM VRV HEAT RECOVERY AIR CONDITIONING (INDOOR UNIT) SCHEDULE

EQUIP. I.D.	LOCATION	AREA SERVE	TYPE	REFRIGERANT COOLING COIL					SUPPLY AIR FLOW RATE	MCA @ 208V/1PH/60HZ	MOCP @ 208V/1PH/60HZ	AIR FILTER	SOUND LEVEL	VIBRATION ISOLATION	OPERATING WEIGHT	REMARKS	MANUFACTURER OR APPROVED EQUAL
				COOLING			HEATING										
				CAPACITY MBH		LVG. AIR TEMP. °F	CAPACITY MBH	LVG. AIR TEMP. °F									
				TOTAL	SENSIBLE	DB		DB	CFM	AMPS	AMPS		Dba/SONES		LBS		
FC-1.2	INDOOR	NIGHT WATCH, 102	CEILING MOUNTED CASSETTE	7.5	5.9	55	8.7	90	320	0.8	15	MERV 13	31	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ07M7VJU
FC-1.3	INDOOR	CONFERENCE, 114	CEILING MOUNTED CASSETTE	18.0	13.0	55	21.0	90	495	0.9	15	MERV 13	41	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ18M7VJU
FC-1.4	INDOOR	PPE STORAGE / DRYING 104	CEILING MOUNTED CASSETTE	--	--	--	8.7	90	320	0.8	15	MERV 13	31	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ07M7VJU
FC-2.1	INDOOR	OFFICER 1, 201	CEILING MOUNTED CASSETTE	9.5	6.7	55	11.1	90	320	0.8	15	MERV 13	33	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ09M7VJU
FC-2.2	INDOOR	FF 1, 202	CEILING MOUNTED CASSETTE	7.5	5.9	55	8.7	90	320	0.8	15	MERV 13	31	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ07M7VJU
FC-2.3	INDOOR	FF 2, 203	CEILING MOUNTED CASSETTE	7.5	5.9	55	8.7	90	320	0.8	15	MERV 13	31	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ07M7VJU
FC-2.4	INDOOR	FF 3, 204	CEILING MOUNTED CASSETTE	7.5	5.9	55	8.7	90	320	0.8	15	MERV 13	31	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ07M7VJU
FC-2.5	INDOOR	FF 4, 205	CEILING MOUNTED CASSETTE	7.5	5.9	55	8.7	90	320	0.8	15	MERV 13	31	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ07M7VJU
FC-2.6	INDOOR	2ND. FLR. RR'S / HALLWY, 214	DUCTED CONCEALED CEILING UNIT	30.0	23.9	55	34.0	90	880	2.3	15	MERV 13	43	SEE NOTES BELOW	200	SEE NOTES BELOW	DAIKIN MODEL FXMQ30PVJU
FC-2.7	INDOOR	OFFICER 2, 213	CEILING MOUNTED CASSETTE	7.5	5.9	55	8.7	90	320	0.8	15	MERV 13	31	SEE NOTES BELOW	80	SEE NOTES BELOW	DAIKIN MODEL FXZQ07M7VJU

NOTES:
1. CAPACITIES BASED ON OUTDOOR DESIGN TEMPERATURES OF 82 DEG. F DB/64 DEG. F WB DURING COOLING PERIOD AND 35 DEG. F FOR HEATING PERIOD.
2. PROVIDE VIBRATION ISOLATION 1" DEFLECTION SPRING AND NEOPRENE HANGERS FOR ALL FAN COIL UNITS.
3. PROVIDE VRV CONTROL BUILDING MANAGEMENT BY DAIKIN MODEL DCM601A71.
4. PROVIDE DECORATIVE PANEL FOR ALL FAN COIL UNITS, EXCEPT FC-2.6.
5. PROVIDE INSULATION FOR REFRIGERANT AND CONDENSATE DRAIN PIPING PER MANUFACTURER'S GUIDELINES.
6. VRV INDOOR UNIT'S LAT WILL VARY AS NECESSARY TO MAINTAIN TEMPERATURE SETPOINT.
7. FCU, FC-2.6 ESP (IN. WG.) SHALL BE 0.70.
8. PROVIDE MERV 13 FILTERS AS FOLLOWS: @ MAX. 500 FPM WITH MAX. 0.25 IN. WG. SP.
9. PROVIDE CONDENSATE PUMPS FOR ALL FAN COIL UNITS. POWER SUPPLIED BY FCU.
10. PROVIDE SECONDARY DRAIN PAN FOR SUPPLY FAN, FC-2.6.
11. UNIT SHALL MEET THE 2013 TITLE 24 REQUIREMENTS.

VRV SPLIT SYSTEM FRESH AIR VENTILATION SCHEDULE

LOCATION	FCU SERVING SPACE	OUTDOOR AIR FLOW RATE, CFM	OUTDOOR AIR FLOW PROVIDED BYWAY OF
NIGHT WATCH 102	FC-1.2	25	OPERABLE WINDOW(S)
CONFERENCE 114	FC-1.3	85	OPERABLE WINDOW(S)
PPE STORAGE / DRYING 104	FC-1.4	60	TRANSFER AIR
OFFICER 1 201	FC-2.1	35	OPERABLE WINDOW(S)
FF1 TO FF 4 202 TO 205	FC-2.2 TO 2.5	120	OPERABLE WINDOW(S)
HALLWAY 214, RR's, LAUNDRY	FC-2.6	370	FC-2.6
OFFICER 2 213	FC-2.7	35	OPERABLE WINDOW(S)

VRV BRANCH SELECTOR SCHEDULE

EQUIP. I.D.	LOCATION	SERVED FCU	SOUND LEVEL	ELECTRICAL DATA @ 208 V/1 PH/60 HZ		OPERATING WEIGHT	MANUFACTURER OR APPROVED EQUAL
			dBA	MCA	MFA	LBS.	
BS-1.1	INDOOR	FC-1.2	42	0.1	15	40	DAIKIN MODEL BSVQ36PVJU
BS-1.2	INDOOR	FC-1.3	42	0.1	15	40	DAIKIN MODEL BSVQ36PVJU
BS-1.3	INDOOR	FC-1.4	42	0.1	15	40	DAIKIN MODEL BSVQ36PVJU
BS-2.1	INDOOR	FC-2.1	42	0.1	15	40	DAIKIN MODEL BSVQ36PVJU
BS-2.2	INDOOR	FC-2.2, 2.3, 2.4 & 2.5	42	0.1	15	40	DAIKIN MODEL BSVQ36PVJU
BS-2.3	INDOOR	FC-2.6	42	0.1	15	40	DAIKIN MODEL BSVQ36PVJU
BS-2.4	INDOOR	FC-2.7	42	0.1	15	40	DAIKIN MODEL BSVQ36PVJU

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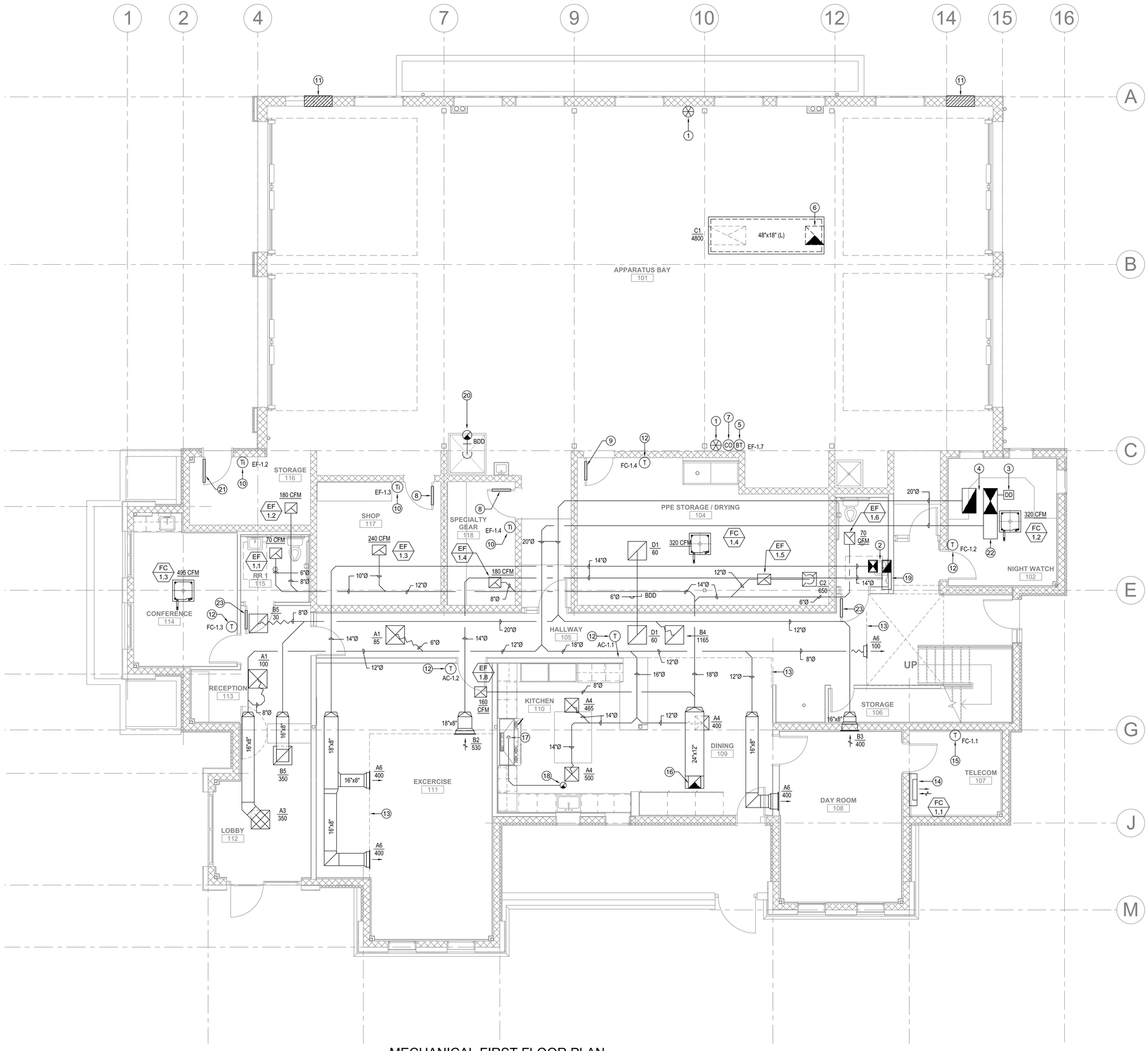
DATE FEBRUARY 9, 2015
DRAWN BY PW
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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

M0.3

MECHANICAL EQUIPMENT SCHEDULES



1 MECHANICAL FIRST FLOOR PLAN
1/4" = 1'-0"

PLAN NORTH

TRUE NORTH

0 4 8 12 FT

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

SHEET NOTES

1. SEE SHEET M0.1 FOR MECHANICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS M0.2 AND M0.3 FOR MECHANICAL EQUIPMENT SCHEDULES.
3. SEE SHEETS M2.1, M2.2 AND M2.3 FOR MECHANICAL DETAILS.
4. ELECTRICAL SHALL FURNISH AND INSTALL 120V POWER AND TRANSFORMERS FOR ALL LOW VOLTAGE CONTROL DEVICES (E.G., THERMOSTATS, DUCT SMOKE DETECTORS ETC.) AND MECHANICAL SHALL FURNISH AND INSTALL LOW VOLTAGE CONTROL DEVICES AND LOW VOLTAGE WIRING TO TRANSFORMERS.

KEY NOTES

(1) STATUS INDICATOR LILGHT. MOUNT AT 12 FT. AFF.

(2) 16"x12" LINED SUPPLY AND LINED RETURN AIR DUCTS UP THRU' ROOF TO ROOFTOP AC UNIT.

(3) DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION AND SEND SIGNAL TO BLDG. FIRE ALARM PANEL. ELECTRICAL SHALL PROVIDE POWER.

(4) 33"x18" LINED SUPPLY AND 32"x18" LINED RETURN AIR DUCTS UP THRU' ROOF TO ROOFTOP AC UNIT.

(5) WALL MOUNTED 1-HR BY-PASS TIMER SWITCH FOR EXHAUST FAN. MOUNT AT 48" AFF.

(6) 24"x24" EXHAUST AIR DUCT UP THRU' ROOF TO ROOFTOP EXHAUST FAN.

(7) CARBON MONOXIDE DETECTOR. MOUNT AT 48" AFF.

(8) 24"x12" DOOR LOUVER. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(9) 24"x16" DOOR LOUVER. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(10) WALL MOUNTED MANUAL TWIST TIMER FOR EXHAUST FAN. MOUNT AT 48" AFF.

(11) 36"x36" WEATHER-PROOF MAKE-UP AIR WALL LOUVER WITH BIRDSCREEN AND MOTORIZED LOW LEAKAGE BDD (2400 CFM W/ 4.8 SQ. FT FREE AREA @ 500 FPM AND 0.04 SP). PROVIDE LOUVER BY RUSKIN MODEL ELF6375DXH OR APPROVED EQUAL. ELECTRICAL SHALL PROVIDE POWER, 120V.

(12) DIGITAL DISPLAY, ADJUSTABLE THERMOSTAT MOUNT AT 48" AFF.

(13) OUTLINE OF CEILING SOFFIT.

(14) MOUNT DUCTLESS FAN COIL UNIT AS HIGH AS POSSIBLE.

(15) DIGITAL DISPLAY, ADJUSTABLE WIRELESS CONTROLLER FOR DUCTLESS HIGH WALL FAN COIL UNIT. MOUNT AT 48" AFF.

(16) 16"x16" EXHAUST AIR DUCT UP THRU' ROOF TO ROOFTOP GRAVITY EXHAUST HOOD.

(17) 8"Ø RANGE EXHAUST AIR DUCT DOWN TO RANGE HOOD CONNECTION. TRANSITION AS NECESSARY.

(18) 8"Ø RANGE EXHAUST AIR DUCT UP THRU' ROOF TO APPROVED ROOF CAP.

(19) S.M. RA PLENUM BY CONTRACTOR.

(20) 12"Ø HOSE DRYER EXHAUST AIR DUCT FROM DRYER UP THRU' ROOF TO APPROVED ROOF CAP. TOTAL LENGTH SHALL NOT EXCEED 14 FEET WITH TWO ELBOWS.

(21) 30"x24" WEATHER-PROOF NON-VISION DOOR LOUVER. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(22) S.M. SA PLENUM BY CONTRACTOR.

(23) 24"x12" NON-VISION DOOR LOUVER. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

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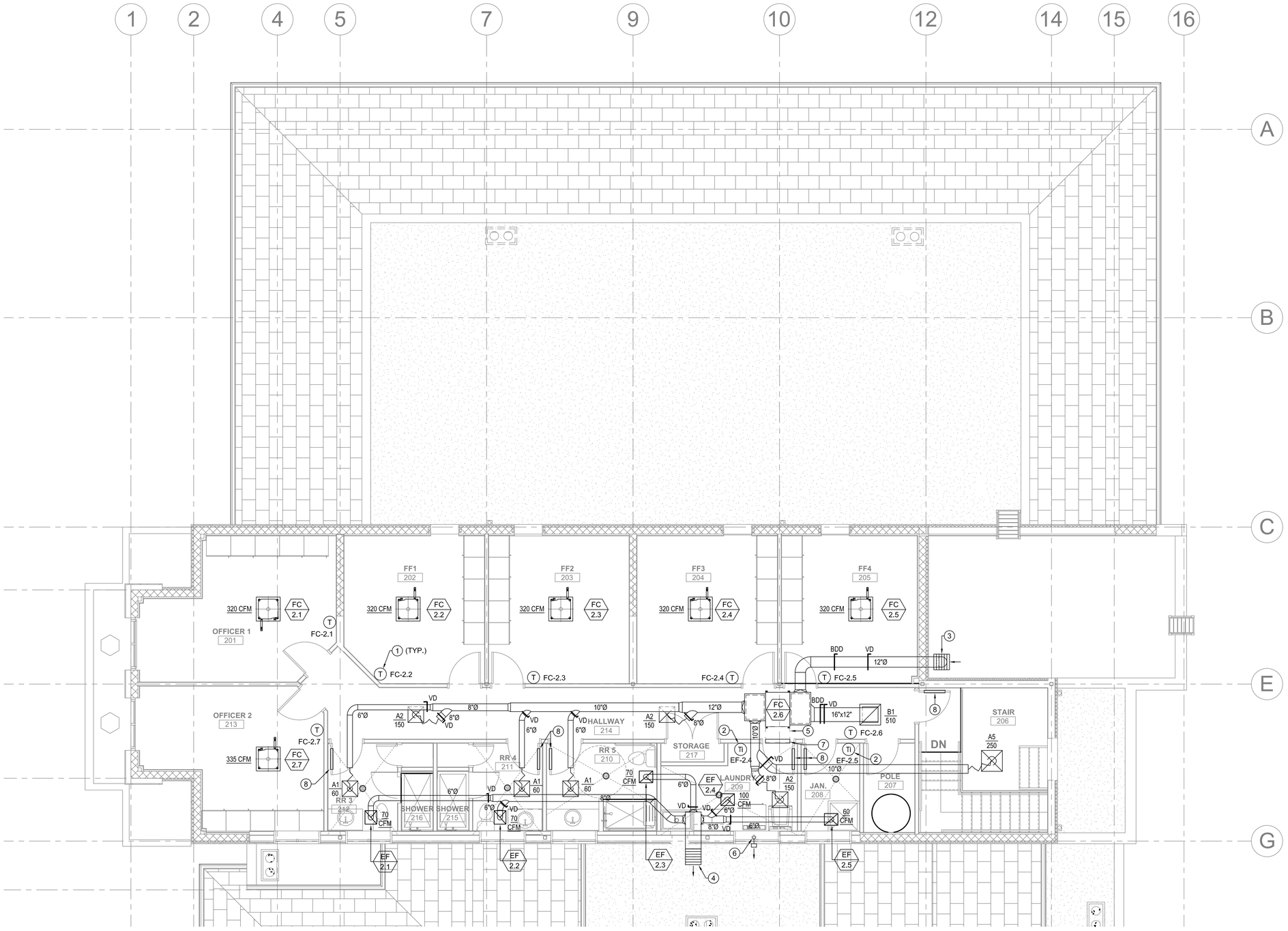
DATE FEBRUARY 9, 2015
DRAWN BY RH
CHECKED BY AK
BRW PROJECT NUMBER 2140173.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 0221114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

M1.1

MECHANICAL
FIRST FLOOR PLAN



1 MECHANICAL SECOND FLOOR PLAN
1/4" = 1'-0"

SHEET NOTES

1. SEE SHEET M0.1 FOR MECHANICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS M0.2 AND M0.3 FOR MECHANICAL EQUIPMENT SCHEDULES.
3. SEE SHEETS M2.1, M2.2 AND M2.3 FOR MECHANICAL DETAILS.
4. ELECTRICAL SHALL FURNISH AND INSTALL 120V POWER AND TRANSFORMERS FOR ALL LOW VOLTAGE CONTROL DEVICES (E.G., THERMOSTATS, DUCT SMOKE DETECTORS ETC.) AND MECHANICAL SHALL FURNISH AND INSTALL LOW VOLTAGE CONTROL DEVICES AND LOW VOLTAGE WIRING TO TRANSFORMERS.

KEY NOTES

1. DIGITAL DISPLAY, ADJUSTABLE THERMOSTAT MOUNT AT 48" AFF.
2. WALL MOUNTED MANUAL TWIST TIMER FOR EXHAUST FAN. MOUNT AT 48" AFF.
3. 18"x18" WEATHER-PROOF FRESH AIR INTAKE LOUVER WITH BIRDSCREEN AND LOW LEAKAGE BAROMETRIC BDD (370 CFM W/ 0.93 SQ.FT. FREE AREA @ 0.04 SP & 500 FPM). INSTALL LOUVER IN ROOF EAVE. PROVIDE LOUVER BY RUSKIN MODEL ELF6375DXH OR APPROVED EQUAL. SEE SHEET M2.1 MECHANICAL DETAILS, DETAIL #8 FOR ADDITIONAL INFORMATION.
4. 18"x18" WEATHER-PROOF EXHAUST AIR LOUVER WITH BIRDSCREEN (370 CFM W/ 0.93 SQ.FT. FREE AREA @ 0.03 SP & 500 FPM). INSTALL LOUVER IN ROOF EAVE. PROVIDE LOUVER BY RUSKIN MODEL ELF6375DXH OR APPROVED EQUAL. SEE SHEET M2.1 MECHANICAL DETAILS, DETAIL #8 FOR ADDITIONAL INFORMATION.
5. OUTLINE OF EQUIPMENT MIN. CLEARANCE.
6. 8"Ø DRYER VENT INSIDE WALL BELOW WINDOW TO APPROVED DRYER VENT WALL CAP WITH BDD AND DOWN TO DRYER VENT CONNECTION. TRANSITION AS REQUIRED.
7. WALL ACCESS DOOR ABOVE CEILING. SIZE OPENING MIN. TO MATCH FCU SIDE FOOT PRINT.
8. 24"x12" NON-VISION DOOR LOUVER. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.

PLAN NORTH
TRUE NORTH

0 4 8 12 FT
SCALE: 1/4" = 1'-0"

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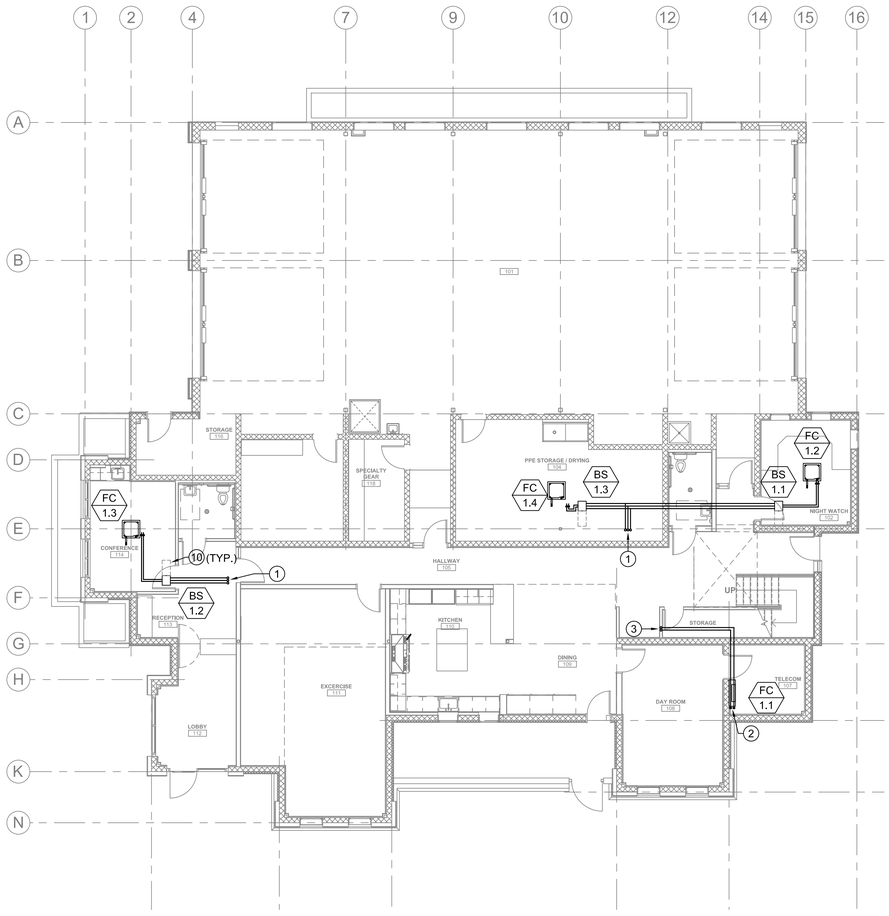
DATE FEBRUARY 9, 2015
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BRW PROJECT NUMBER 2140715.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

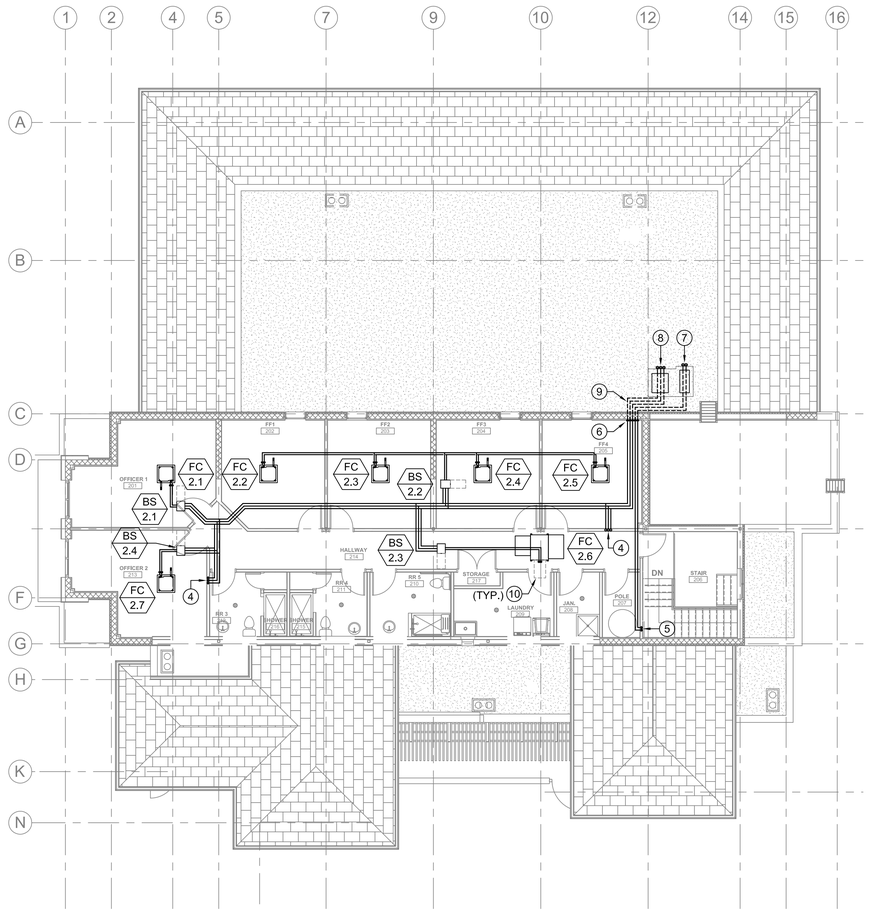
No.	Description	Date

M1.2

MECHANICAL SECOND FLOOR PLAN



1 MECHANICAL REFRIGERANT PIPING FIRST FLOOR PLAN
1/8" = 1'-0"



2 MECHANICAL REFRIGERANT PIPING SECOND FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

0 4 8 12 16 20 FT
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. SEE SHEET M0.1 FOR MECHANICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS M0.2 AND M0.3 FOR MECHANICAL EQUIPMENT SCHEDULES.
3. SEE SHEETS M2.1, M2.2 AND M2.3 FOR MECHANICAL DETAILS.
4. SEE SHEET M2.3, MECHANICAL DETAILS - DETAIL 1, VRF PIPING SCHEMATIC FOR ADDITIONAL INFORMATION.
5. PROVIDE INSULATION FOR ALL REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES AND INSTALL WEATHER-PROOF JACKETING FOR ALL OUTDOOR REFRIGERANT PIPING.
6. ELECTRICAL SHALL FURNISH AND INSTALL 120V POWER AND TRANSFORMERS FOR ALL LOW VOLTAGE CONTROL DEVICES (E.G., THERMOSTATS, DUCT SMOKE DETECTORS ETC.) AND MECHANICAL SHALL FURNISH AND INSTALL LOW VOLTAGE CONTROL DEVICES AND LOW VOLTAGE WIRING TO TRANSFORMERS.

KEY NOTES

1. VRF SUCTION GAS, H/L PRESSURE GAS AND LIQUID REFRIGERANT RISERS UP TO SECOND FLOOR. SEE SECOND FLOOR PLAN ON THIS SHEET FOR CONTINUATION.
2. GAS AND LIQUID REFRIGERANT PIPING DOWN INSIDE WALL TO DUCTLESS HIGH WALL FAN COIL UNIT.
3. GAS AND LIQUID REFRIGERANT UP TO SECOND FLOOR. SEE SECOND FLOOR PLAN ON THIS SHEET FOR CONTINUATION.
4. VRF SUCTION GAS, H/L PRESSURE GAS AND LIQUID REFRIGERANT PIPING DOWN INSIDE WALL TO FIRST FLOOR. SEE FIRST FLOOR PLAN ON THIS SHEET FOR CONTINUATION.
5. GAS AND LIQUID REFRIGERANT PIPING DOWN INSIDE WALL TO FIRST FLOOR. SEE FIRST FLOOR PLAN ON THIS SHEET FOR CONTINUATION.
6. REFRIGERANT PIPING DOWN INSIDE WALL TO APPARATUS BAY CEILING SPACE.
7. GAS AND LIQUID REFRIGERANT PIPING DOWN THRU' ROOF FROM ROOFTOP CONDENSING UNIT.
8. VRF SUCTION GAS, H/L PRESSURE GAS AND LIQUID REFRIGERANT PIPING DOWN THRU' ROOF FROM ROOFTOP CONDENSING UNIT.
9. REFRIGERANT PIPING WITHIN APPARATUS CEILING SPACE.
10. OUTLINE OF EQUIPMENT MIN. SERVICE CLEARANCE.

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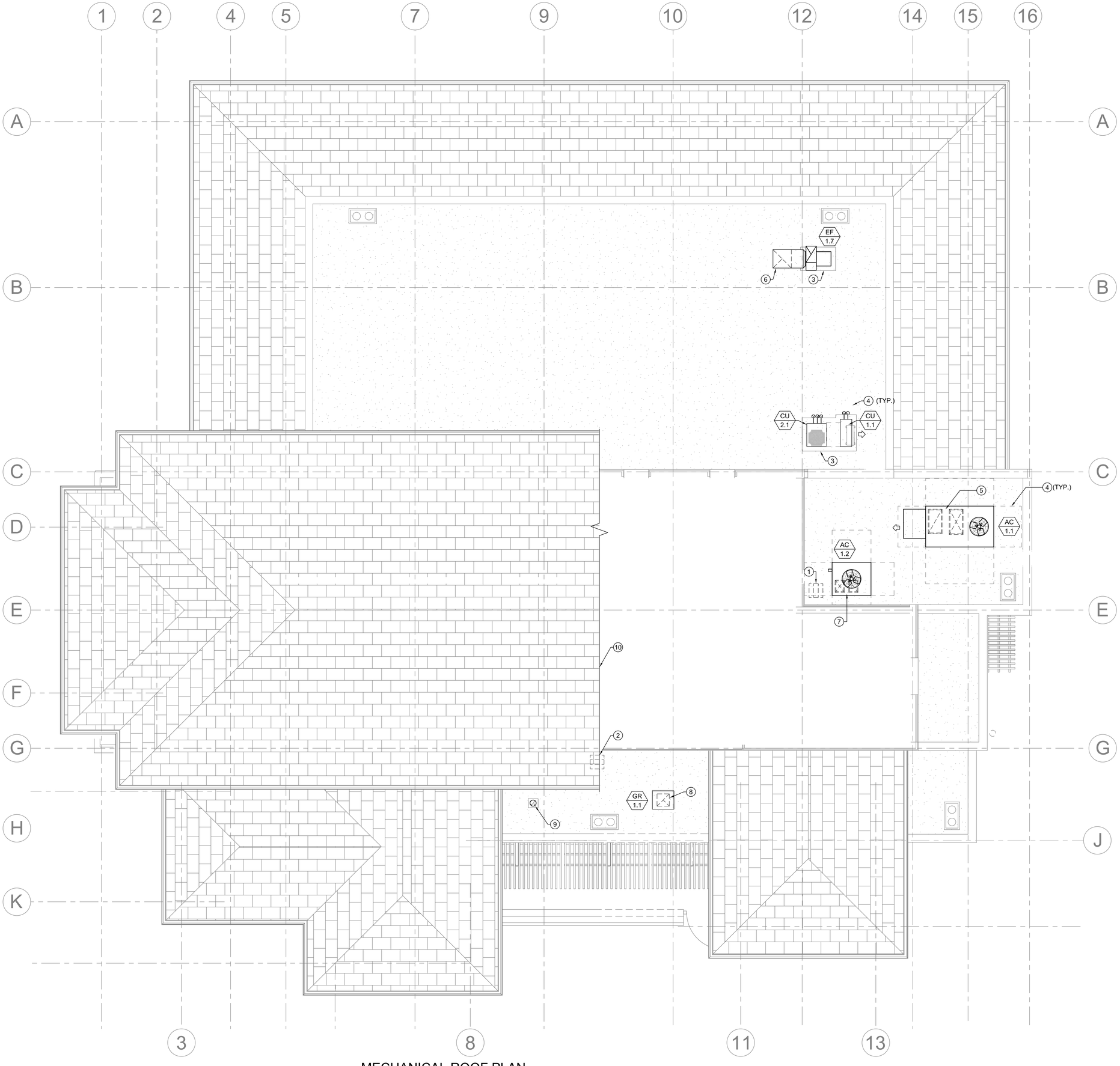
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 0231114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

M1.3

MECHANICAL REFRIGERANT PIPING PLANS



SHEET NOTES

1. SEE SHEET M0.1 FOR MECHANICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS M0.2 AND M0.3 FOR MECHANICAL EQUIPMENT SCHEDULES.
3. SEE SHEETS M2.1, M2.2 AND M2.3 FOR MECHANICAL DETAILS.
4. ELECTRICAL SHALL FURNISH AND INSTALL 120V POWER AND TRANSFORMERS FOR ALL LOW VOLTAGE CONTROL DEVICES (E.G., THERMOSTATS, DUCT SMOKE DETECTORS ETC.) AND MECHANICAL SHALL FURNISH AND INSTALL LOW VOLTAGE CONTROL DEVICES AND LOW VOLTAGE WIRING TO TRANSFORMERS.

KEY NOTES

1. 18"x18" WEATHER-PROOF FRESH AIR INTAKE LOUVER WITH BIRDSCREEN AND LOW LEAKAGE BAROMETRIC BDD IN ROOF EAVE. SEE SHEET M2.1 MECHANICAL DETAILS, DETAIL #8 FOR ADDITIONAL INFORMATION.
2. 18"x18" WEATHER-PROOF EXHAUST AIR LOUVER WITH BIRDSCREEN IN ROOF EAVE. SEE SHEET M2.1 MECHANICAL DETAILS, DETAIL #8 FOR ADDITIONAL INFORMATION.
3. 6" MIN. HIGH EQUIPMENT PLATFORM. EXTEND MIN. 6" AROUND PERIMETER OF EQUIPMENT.
4. OUTLINE OF EQUIPMENT MIN. CLEARANCE.
5. 33"x18" LINED SUPPLY AND 32"x18" LINED RETURN AIR DUCTS DOWN THRU' ROOF.
6. 24"x24" EXHAUST AIR DUCT DOWN THRU' ROOF.
7. 16"x12" LINED SUPPLY AND LINED RETURN AIR DUCTS DOWN THRU' ROOF.
8. 16"x16" EXHAUST AIR DUCT DOWN THRU' ROOF.
9. 8"Ø RANGE EXHAUST DUCT W/ APPROVED ROOF CAP.
10. UPPER ROOF CUT SHOWN FOR CLARITY.

PLAN NORTH / TRUE NORTH

0 4 8 12 FT

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

1 MECHANICAL ROOF PLAN
1/4" = 1'-0"

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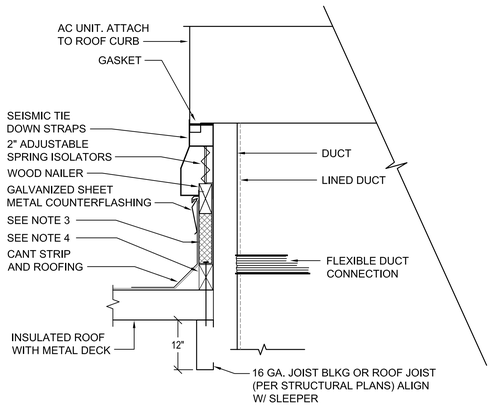
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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02.3114
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M1.4

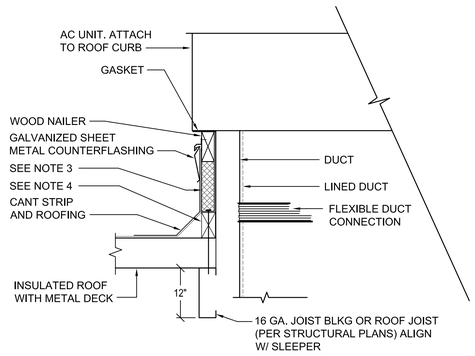
MECHANICAL ROOF PLAN



NOTES:

1. PROVIDE SEISMIC TIE DOWN STRAPS FROM AC UNIT TO ROOF CURB PER MFR'S RECOMMENDATIONS AT EACH END OF EACH SIDE (TOTAL OF 8).
2. REFER TO ARCHITECTURAL DRAWINGS FOR UNIT ROOF CURB FLASHING.
3. 2" DEFLECTION STRUCTURALLY CALCULATED 18" TALL ISOLATION ROOF CURB WITH INSULATED DECK PAN AND PERIMETER.
4. METAL SLEEPER / FIRE RATED PT LUMBER (2 1/2" MIN NET THICKNESS) (SLOPE AS REQUIRED FOR ROOF SLOPE) FASTEN SLEEPER TO BLKG OR ROOF JOIST W/ 1/4" SELF-DRILLING TAPPING SCREWS @ 3" O.C.

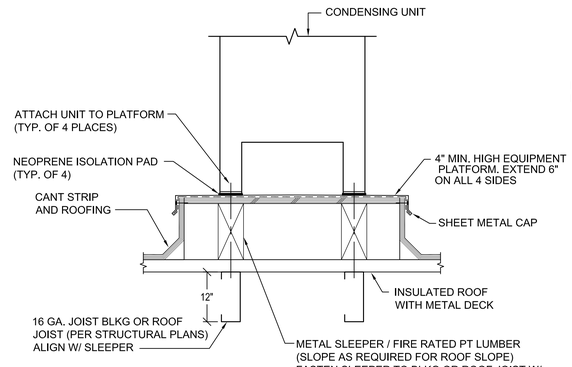
1 M2.1 ROOFTOP AIR CONDITIONING UNIT MOUNTING DETAIL, AC-1.1
NTS



NOTES:

1. PROVIDE SEISMIC TIE DOWN STRAPS FROM AC UNIT TO ROOF CURB PER MFR'S RECOMMENDATIONS AT EACH END OF EACH SIDE (TOTAL OF 8).
2. REFER TO ARCHITECTURAL DRAWINGS FOR UNIT ROOF CURB FLASHING.
3. 2" DEFLECTION STRUCTURALLY CALCULATED 18" TALL ISOLATION ROOF CURB WITH INSULATED DECK PAN AND PERIMETER.
4. METAL SLEEPER / FIRE RATED PT LUMBER (2 1/2" MIN NET THICKNESS) (SLOPE AS REQUIRED FOR ROOF SLOPE) FASTEN SLEEPER TO BLKG OR ROOF JOIST W/ 1/4" SELF-DRILLING TAPPING SCREWS @ 3" O.C.

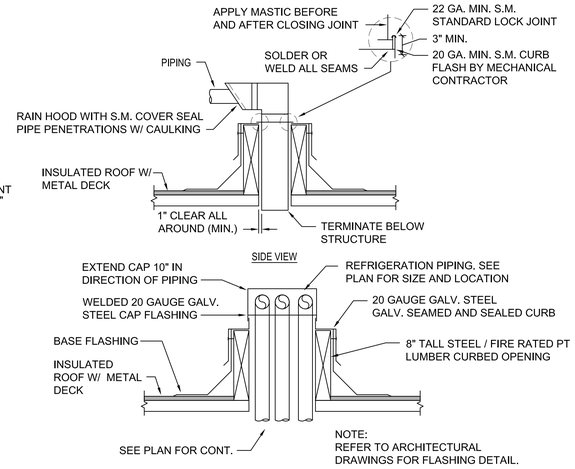
2 M2.1 ROOFTOP AIR CONDITIONING UNIT MOUNTING DETAIL, AC-1.2
NTS



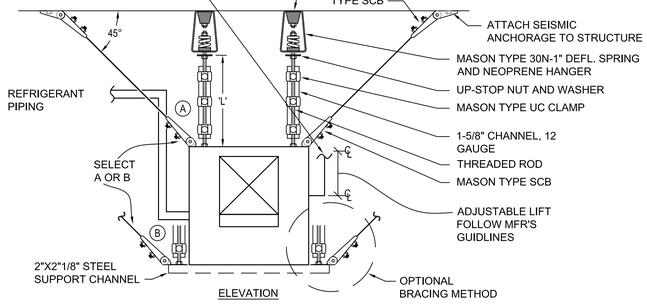
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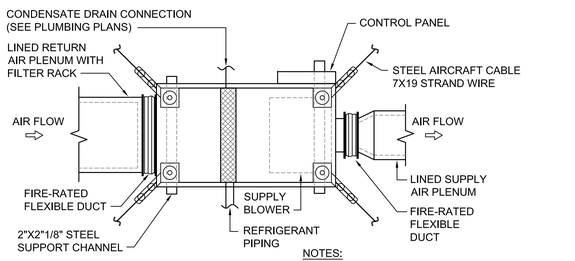
1. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT PLATFORM FLASHING.

3 M2.1 ROOFTOP CONDENSING UNIT MOUNTING DETAIL, CU-2.1
NTS



4 M2.1 REFRIGERANT PIPING THRU' ROOF DETAIL
NTS

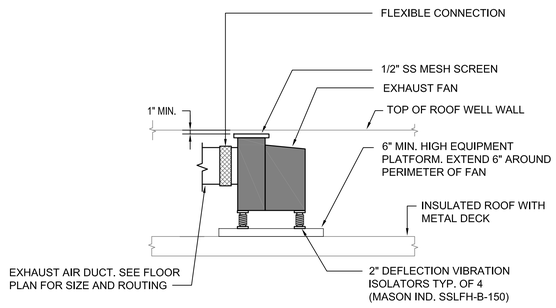




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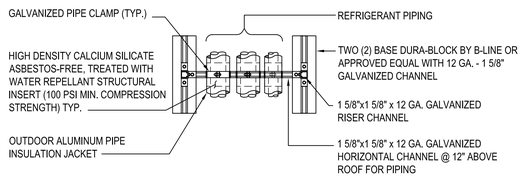
1. IF 'L' EXCEEDS 50 TIMES THE DIAMETER OF THE ROD, THEN A ROD STIFFENER IS REQUIRED.
2. CONTRACTOR SHALL PROVIDE LINED RA AND SA PLENUMS. SIZE RA PLENUM WITH FILTER BASED ON FPM PER EQUIPMENT SCHEDULE.
3. PROVIDE SECONDARY DRAIN PAN W/ CONDENSATE DRAIN CONNECTION.

5 M2.1 VRV FAN COIL UNIT MOUNTING DETAIL, FC-2.6
NTS

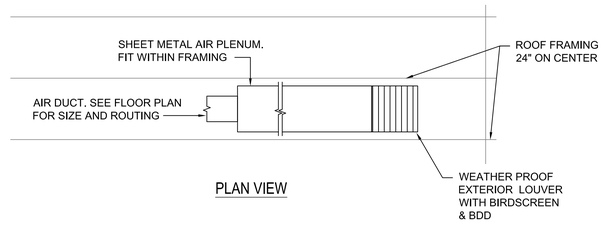


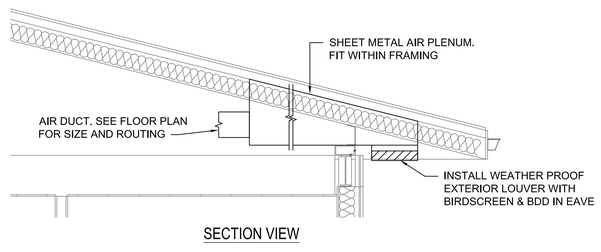
ROOF-TOP UPBLAST EXHAUST FAN MOUNTING DETAIL, EF-1.7

6 M2.1
NTS



7 M2.1 TYPICAL ROOF PIPE SUPPORT DETAIL
NTS





8 M2.1 LOUVER IN EAVE DETAIL
NTS

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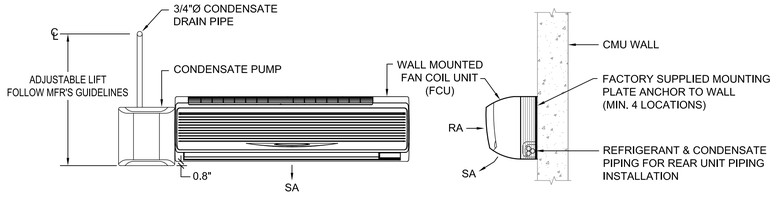
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ALAMEDA FIRE STATION 3
PROJECT NO. 0231114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

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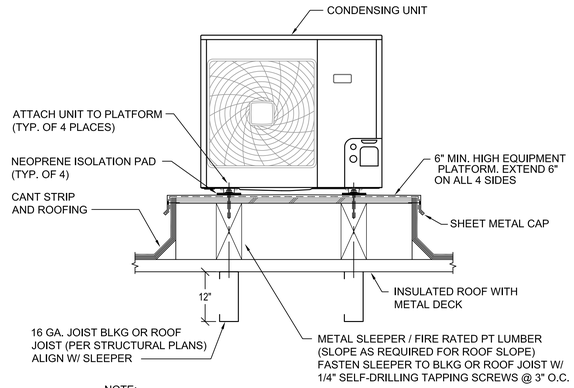
M2.1

MECHANICAL DETAILS



WALL MOUNTED TYPE FAN COIL MOUNTING DETAIL, FC-1.1

1 / M2.2 NTS

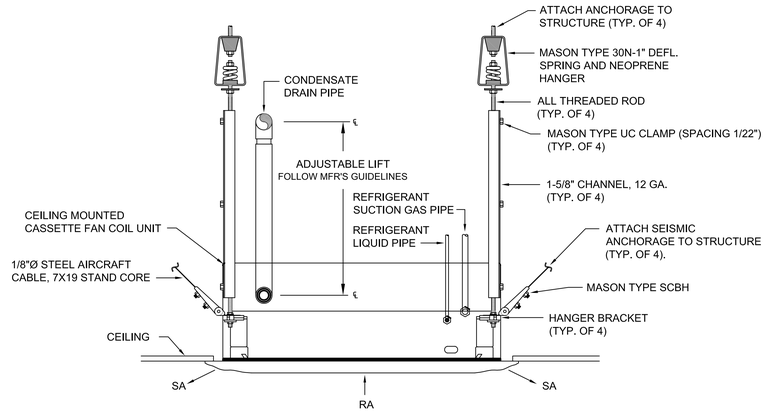


NOTE:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT PLATFORM FLASHING.

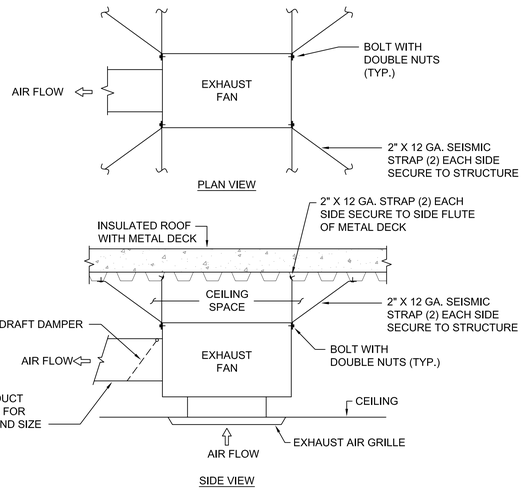
ROOFTOP CONDENSING UNIT MOUNTING DETAIL, CU-1.1

2 / M2.2 NTS



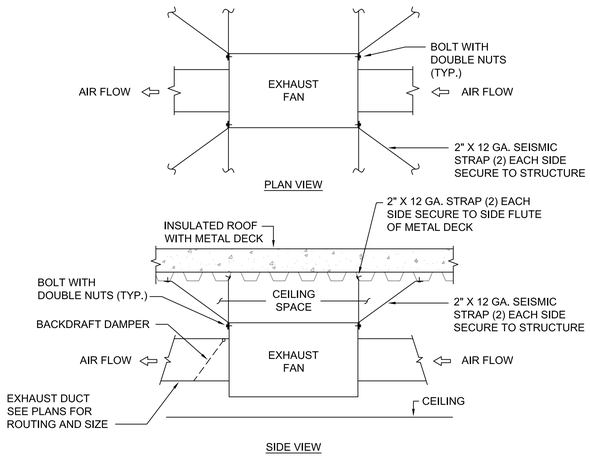
CEILING CASSETTE FAN COIL UNIT MOUNTING DETAIL, FC1.2, 1.3, 2.1 TO 2.5, 2.7

3 / M2.2 NTS



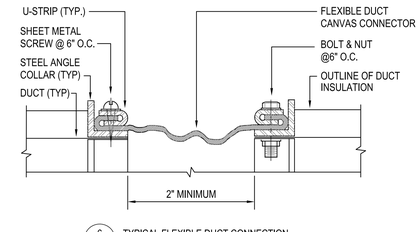
CEILING EXHAUST FAN MOUNTING DETAIL, EF-1.1 TO 1.4, 1.6, 1.8, 2.1 TO 2.5

4 / M2.2 NTS



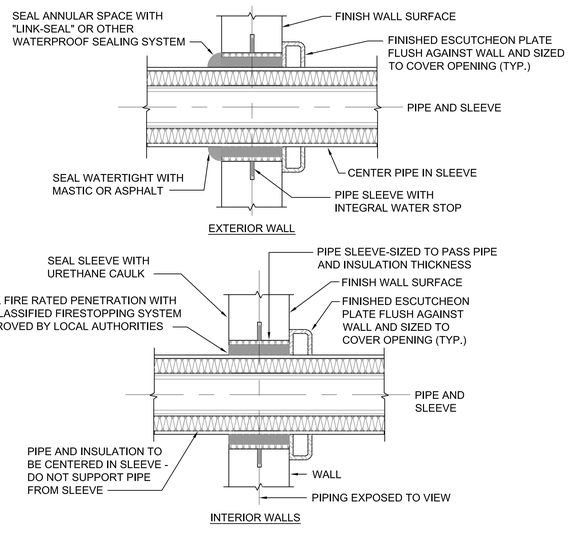
INLINE EXHAUST FAN MOUNTING DETAIL, EF-1.5

5 / M2.2 NTS



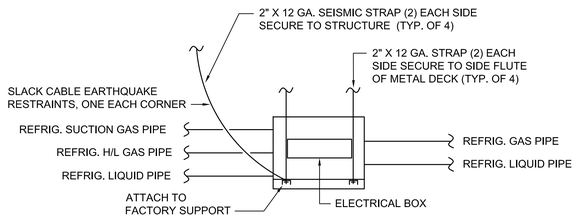
TYPICAL FLEXIBLE DUCT CONNECTION

6 / M2.2 NTS



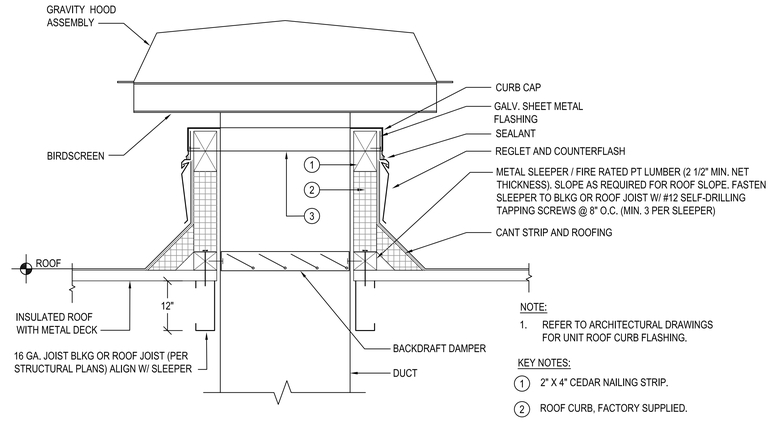
PIPE PENETRATION THRU WALL

7 / M2.2 NTS



VRV BRANCH SELECTOR MOUNTING DETAIL, BS-1.1 TO BS-1.2 & BS-2.1 TO BS-2.4

8 / M2.2 NTS



NOTE:

1. REFER TO ARCHITECTURAL DRAWINGS FOR UNIT ROOF CURB FLASHING.

KEY NOTES:

1. 2" X 4" CEDAR NAILING STRIP.
2. ROOF CURB, FACTORY SUPPLIED.
3. CURB CAP OF FAN. ATTACH TO CURB.

ROOFTOP GRAVITY HOOD MOUNTING DETAIL, GR-1

9 / M2.2 NTS

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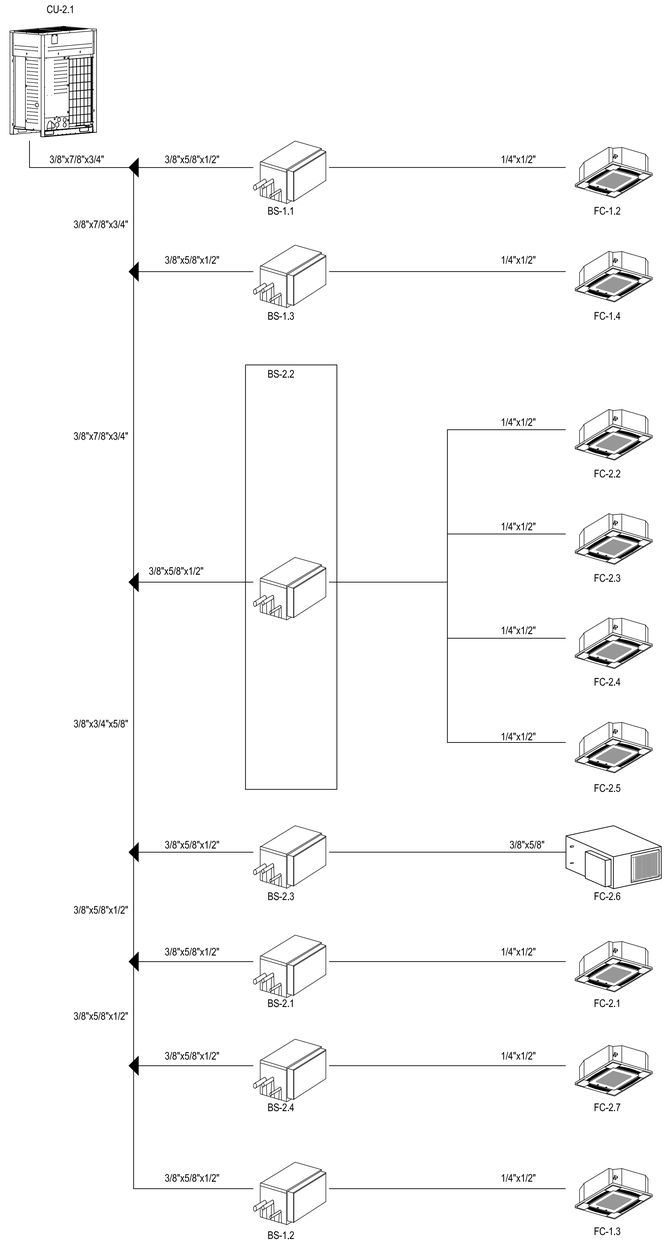
DATE FEBRUARY 9, 2015
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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1629 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

M2.2

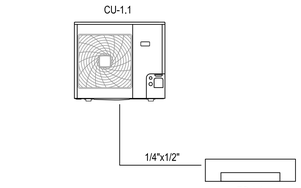
MECHANICAL DETAILS



NOTES:

1. 1.CONTRACTOR SHALL BE DAIKIN MANUFACTURER CERTIFIED AND HAS INSTALLED AND COMPLETED TWO OR MORE DAIKIN MANUFACTURER PROJECTS.
2. CONTRACTOR SHALL INSTALL VRV SYSTEM PER MFR'S GUIDELINES AND TRAINING.
3. REFRIGERANT PIPE 1ST NUMBER INDICATES LIQUID LINE, 2ND NUMBER INDICATES SUCTION GAS LINE AND 3RD NUMBER INDICATES DISCHARGE GAS LINE.
4. INSULATE REFRIGERANT LINES PER MANUFACTURER'S GUIDELINES.
5. FOLLOW MANUFACTURER'S GUIDELINES FOR PIPE SIZING.
6. REFRIGERANT PIPE SIZES MAY CHANGE BASED ON ACTUAL DEVELOPED PIPE LENGTH. COORDINATE WITH MANUFACTURER FOR REFRIGERANT PIPE SIZES.

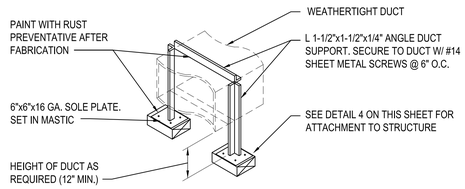
1 / M2.3 VRV HEAT RECOVERY SPLIT SYSTEM PIPING SCHEMATIC
NTS



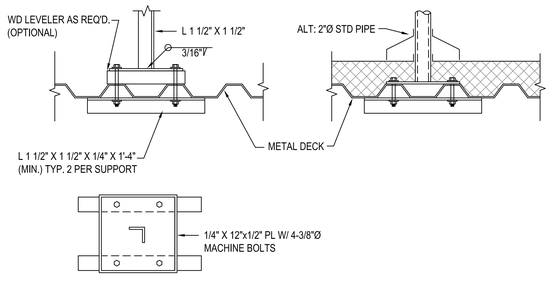
NOTES:

1. CONTRACTOR SHALL BE DAIKIN MANUFACTURER CERTIFIED AND HAS INSTALLED AND COMPLETED TWO OR MORE DAIKIN MANUFACTURER PROJECTS.
2. CONTRACTOR SHALL INSTALL SPLIT SYSTEM PER MFR'S GUIDELINES AND TRAINING.
3. FOLLOW MANUFACTURER'S GUIDELINES FOR PIPE SIZING.
4. INSULATE REFRIGERANT LINES PER MANUFACTURER'S GUIDELINES.
5. REFRIGERANT PIPE 1ST NUMBER INDICATES LIQUID LINE AND 2ND NUMBER INDICATES SUCTION GAS LINE .
6. REFRIGERANT PIPE SIZES MAY CHANGE BASED ON ACTUAL DEVELOPED PIPE LENGTH. COORDINATE WITH MANUFACTURER FOR REFRIGERANT PIPE SIZES.

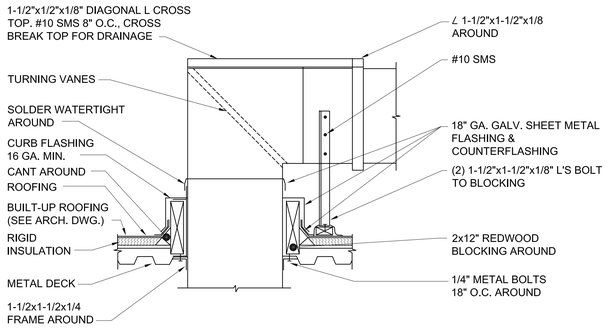
2 / M2.3 COOLING ONLY SPLIT SYSTEM PIPING SCHEMATIC
NTS



3 / M2.3 DUCT SUPPORT DETAIL
NTS



4 / M2.3 LEG SUPPORT DETAIL
NTS



5 / M2.3 DUCT THROUGH ROOF
NTS

THERMAL COMFORT VERIFICATION:

THE CITY OF ALAMEDA SHALL BE RESPONSIBLE FOR SELECTING A VALIDATION TEAM. THE VALIDATION TEAM SHALL ADMINISTER AND BE RESPONSIBLE FOR SETTING UP THE SURVEY, SENDING INVITATIONS, COLLECTING AND ANALYZING THE SURVEY RESULTS. IN ADDITION, THE TEAM SHALL CONDUCT THE FOLLOWING ITEMS FOR COMPLIANCE WITH LEED IEQ CREDIT 7.2.

- A THERMAL COMFORT SURVEY OF BUILDING OCCUPANTS WITHIN 6 TO 18 MONTHS AFTER OCCUPANCY. FOLLOW ASHRAE 55-2004 FOR GUIDANCE FOR ESTABLISHING THERMAL COMFORT CRITERIA, DOCUMENTATION AND VALIDATING BUILDING PERFORMANCE TO THE CRITERIA.
- AN ASSESSMENT OF OVERALL SATISFACTION WITH THERMAL PERFORMANCE AND IDENTIFICATION OF THERMAL COMFORT PROBLEMS.
- DEVELOP A PLAN OF CORRECTIVE ACTION IF THE SURVEY RESULTS INDICATE THAT MORE THAN 20% OF THE OCCUPANTS ARE DISSATISFIED WITH THE THERMAL COMFORT INSIDE THE BUILDING. THIS PLAN SHALL INCLUDE MEASUREMENT OF RELEVANT ENVIRONMENTAL VARIABLES IN PROBLEM AREAS IN ACCORDANCE WITH ASHRAE 55-2004.
- EVALUATE THE SYSTEMS ABILITY TO MEET AND MAINTAIN THE DESIRED COMFORT LEVEL(S).

6 / M2.3 THERMAL VERIFICATION

NOT FOR CONSTRUCTION

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DATE FEBRUARY 9, 2015
DRAWN BY PW
CHECKED BY AK
BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

M2.3

MECHANICAL DETAILS

PLUMBING GENERAL NOTES

1. IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, SPECIFICATIONS, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS, FIRE INSURANCE CARRIER'S REQUIREMENTS AND CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. PROMPTLY NOTIFY THE CITY OF ALAMEDA IN WRITING OF ANY SUCH DIFFERENCE.
2. EQUIPMENT AND PIPING AS SHOWN ON DRAWINGS ARE SCHEMATIC AND SHALL BE FABRICATED AND INSTALLED ON ACTUAL FIELD MEASUREMENT. DO NOT SCALE DRAWINGS FOR EXACT LOCATION OF EQUIPMENT AND PIPING. COORDINATE WITH OTHER TRADES AS REQUIRED.
3. PLANS ARE BASED ON ANTICIPATED EQUIPMENT SIZE AND CONFIGURATION. CONTRACTOR SHALL MODIFY ARRANGEMENT TO SUIT ACTUAL PURCHASED EQUIPMENT AS REQUIRED FOLLOWING THE CRITERIA ESTABLISHED BY THESE PLANS. DEPARTURES FROM THE CONTRACT DRAWING RESULTING FROM CHANGES IN EQUIPMENT SIZES AND CONFIGURATIONS, OR RE-ARRANGEMENTS TO ACCOMMODATE FIELD CONDITIONS SHALL BE SUBMITTED IN DETAIL FOR CITY OF ALAMEDA'S APPROVAL.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND SHALL REPAIR ADJACENT NEW SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY NEW WORK.
5. HANDLE, STORE AND INSTALL ALL EQUIPMENT AND PIPING PER MANUFACTURER'S INSTRUCTIONS. ALL EQUIPMENT AND PIPING SHALL BE PROTECTED FROM THE WEATHER ELEMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE FUNCTIONALITY OF THE EQUIPMENT INCLUDING CONTROL ITEMS ASSOCIATED WITH THE PROJECT.
7. PROVIDE EQUIPMENT CLEARANCES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
8. EQUIPMENT OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICES, CIRCUIT BREAKERS, AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED WITHOUT COST TO THE CITY OF ALAMEDA. IF MINIMUM ENERGY RATINGS OR EFFICIENCIES ARE SPECIFIED, EQUIPMENT SHALL COMPLY WITH REQUIREMENTS.
9. CONTRACTOR IS TO MAINTAIN RECORDED "AS-BUILT" INFORMATION ON ALL EXISTING SERVICES UNCOVERED DURING CONSTRUCTION AND ALL NEW SERVICES BEING INSTALLED. "AS-BUILT" INFORMATION SHALL BE CLEARLY MARKED IN COLORED PENCIL ON A PRINT OF THE CONTRACT DRAWING. RECORDED INFORMATION SHALL INCLUDE ROUTING AND INVERT ELEVATIONS. AT THE COMPLETION OF THE CONTRACT, THE CONTRACTOR SHALL TURN RECORDED "AS-BUILT" INFORMATION OVER TO THE CITY OF ALAMEDA AND CONTRACTOR TO BE COORDINATED WITH AS BUILT REQUIREMENTS IN SPECIFICATION.
10. ARRANGE ALL PIPING WITHIN STRUCTURES NEATLY ALONG WALLS AND/OR IN NEAT, HORIZONTAL GROUPS AND MAINTAIN REQUIRED SLOPES.
11. DO NOT SLEEVE STRUCTURAL MEMBERS WITHOUT CONSENT OF A LICENSED STRUCTURAL ENGINEER AND THE CITY OF ALAMEDA. REVIEW STRUCTURAL DRAWINGS PRIOR TO PLACING ANY SLEEVES.
12. DO NOT SPRING OR FORCE PIPING DURING INSTALLATION.
13. CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE WITH NEW AND/OR RECONNECT ALL EXISTING SERVICES AS REQUIRED BY NEW CONSTRUCTION.
14. INSTALL ALL PIPING CONCEALED IN FURRED CEILING AND CHASES UNLESS OTHERWISE INDICATED.
15. SLOPE ALL PIPING AS INDICATED. TRUE TO LINE AND GRADE, AND FREE OF TRAPS AND AIR POCKETS.
16. WHEN POSSIBLE, INSTALL VALVES ACCESSIBLE FROM FLOOR LEVEL.
17. DO NOT INSTALL VALVES WITH STEM POINTING DOWNWARD UNLESS INDICATED OTHERWISE.
18. PROVIDE VALVES AND OTHER PIPING SPECIALTIES SAME SIZE AS LINE SIZE UNLESS INDICATED OTHERWISE.
19. SECURELY FASTEN ALL PIPING WITHIN STRUCTURES TO THE BUILDING CONSTRUCTION BY MEANS OF HANGERS, SUPPORTS, GUIDES, ANCHORS, AND SWAY BRACES TO MAINTAIN PIPE ALIGNMENT, TO PREVENT SAGGING, AND TO PREVENT NOISE AND EXCESSIVE STRAIN ON PIPING DUE TO MOVEMENT UNDER OPERATING CONDITIONS.
20. PROVIDE A HANGER NOT MORE THAN 12-INCHES FROM THE POINT OF CHANGE OF DIRECTION OF A PIPE RUN IN BOTH HORIZONTAL AND VERTICAL PLANE.
21. DO NOT SUPPORT PIPING OR VALVES FROM OTHER PIECES OF EQUIPMENT.
22. PROVIDE UNIONS OR FLANGES ON EACH SIDE OF VALVES. EVERY PIPING ASSEMBLY SHALL BE MADE SO AS TO MAKE EVERY VALVE AND PIECE OF EQUIPMENT EASILY REMOVABLE. WELDED OR SOLDER-JOINT VALVES ARE EXPECTED FROM THIS REQUIREMENT.
23. CONNECTION BETWEEN ALL DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC ISOLATING UNIONS, OR GASKETED FLANGES WITH ISOLATED THROUGH BOLTS.
24. CERTAIN VERTICAL AND HORIZONTAL OFFSETS ARE SHOWN IN PIPING ON PLANS TO INDICATE THE GENERAL POSITION RELATIONSHIP OF THE SYSTEMS WITHIN THE FURRED CEILING SPACE. PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN, AS REQUIRED TO COORDINATE WITH INSTALLATION REQUIREMENTS OF OTHER SYSTEMS.
25. PROVIDE A COMPLETE PLUMBING SYSTEM AS INDICATED WITH WASTE AND VENT, STORM DRAINAGE, DOMESTIC COLD AND HOT WATER CONNECTIONS. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE 2013 EDITION OF CALIFORNIA PLUMBING CODE, CALIFORNIA MECHANICAL CODE , CALIFORNIA BUILDING CODE, CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA ENERGY COMMISSION TITLE 24 AND LATEST CITY ADOPTED CODE.
26. ALL EQUIPMENT, FIXTURES AND PIPING, ETC. SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
27. TRAP PRIMER IS REQUIRED AT ALL FLOOR DRAINS AND FLOOR SINKS.
28. INSULATE ALL HOT AND COLD WATER AND DRAIN PIPING UNDERNEATH LAVATORIES.
29. ALL PIPES AND FITTINGS UTILIZED IN WATER SUPPLY SYSTEMS SHALL ALSO CONFORM TO NSF 61 AS REQUIRED BY THE 2013 CALIFORNIA PLUMBING CODE.
30. COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF PANELS PRIOR TO INSTALLATION. INSTALL PIPING TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES.
31. PROVIDE ISOLATION VALVE FOR HOT AND COLD WATER BRANCH PIPING TO ISOLATE EACH RESTROOM AND OTHER ROOMS WITH FIXTURES FROM THE MAIN HOT AND COLD WATER SUPPLY PIPING.
32. VERIFY AT PROJECT SITE EXACT SIZE, LOCATION, INVERT ELEVATION, AND CLEARANCE OF ALL EXISTING SERVICES BEING EXTENDED, RELOCATED, OR REMOVED.
33. INVERT ELEVATIONS OF UTILITY MAINS SHALL BE VERIFIED AT PROJECT SITE PRIOR TO INSTALLATION OF NEW BRANCH SERVICES.
34. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, DRAINS AND ACCESS PANELS.
35. PROVIDE FIRESTOPPING AROUND ALL PIPES WHICH PENETRATE FIRE SEPARATIONS. PROVIDE COLLARS OR TRIM RINGS AROUND PIPING TO RETAIN PACKING.
36. SET ALL FLOOR DRAINS TO LOCATION INDICATED ON ARCHITECTURAL DRAWINGS.
37. SLOPE ALL DRAINAGE PIPING WITHIN THE BUILDING DOWN IN THE DIRECTION OF FLOW A MINIMUM OF 1/2-INCH PER FOOT UNLESS OTHERWISE NOTED.
38. PROVIDE WALL/CEILING ACCESS PANEL TO ALL TRAP PRIMER VALVES AND DOMESTIC COLD AND HOT WATER ISOLATION VALVES.
39. CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING ALL DRAWINGS AND COORDINATION WITH ALL OTHER TRADES PRIOR TO START OF WORK AND PURCHASING OF EQUIPMENT. ADVISE CITY OF ALAMEDA IN WRITING IN THE EVENT A CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL BEAR ALL COSTS FOR RELOCATION OF EQUIPMENT, PIPING, ETC., FROM FAILURE TO PROPERLY COORDINATE INSTALLATIONS AND ADVISE OF THE CONFLICT IN WRITING PRIOR TO INSTALLATION.
40. SUPPORTS FOR ALL PIPING SHALL BE IN ACCORDANCE WITH THE LATEST SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PIPING SYSTEMS" AND MSS SP-58 AND SP-69. PIPING HANGERS SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF PIPING INCLUDING THE WEIGHT OF THE CONTENTS OF THE PIPING.
41. PIPE SIZES SHOWN ARE NOMINAL DIAMETER.
42. COORDINATE INSTALLATION OF ALL EQUIPMENT, PIPING WITH OTHER TRADES PRIOR TO INSTALLATION.
43. CONTRACTOR TO PROVIDE SUBMITTALS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION
	CW	DOMESTIC COLD WATER PIPE
	HW	DOMESTIC HOT WATER PIPE
	SS	SEWER PIPE ABOVE FLOOR
	SS	SEWER DRAIN PIPE BELOW FLOOR
CA	CA	COMPRESSED AIR PIPE
HPG	HPG	HIGH PRESSURE GAS
LPG	LPG	LOW PRESSURE GAS
	V	VENT PIPE
VTR	VTR	VENT THRU ROOF
	FD	FLOOR DRAIN
WCO	WCO	WALL CLEAN OUT
FCO/COTG	FCO	FLOOR OR CLEAN OUT TO GRADE
CO	CO	CLEAN OUT
TD-2	TD	TRENCH DRAIN
		SLOPE
		ELBOW DOWN
		ELBOW UP
		ELBOW UP WITH VALVE
		TEE DOWN
		TEE UP
	RED	REDUCER
	HB	HOSE BIBB
	VTR	VENT THRU ROOF
TP		TRAP PRIMER
		ISOLATION/SHUT OFF/VALVE
		BALL VALVE
		PLUG VALVE
	WHA	WATER HAMMER ARRESTER
T		THERMOSTAT/AQUASTAT/TEMPERATURE SENSOR
E		FURNISHED AS INSTALLED BY ELECTRICAL
		UNION
		ANGLE STOP
		Y-STAINER
		CONDENSATE P-TRAP
1 / --		DETAIL NUMBER / SHEET NUMBER
A / --		SECTION LETTER / SHEET NUMBER

PLUMBING ABBREVIATIONS

ABBREV.	DESCRIPTION
@	AT
ADA	AMERICANS WITH DISABILITIES ACT
AF	ABOVE FLOOR
AFF	ABOVE FINISHED FLOOR
AMPS	AMPERES
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BF	BELOW FLOOR
BFP	BACKFLOW PREVENTER
BG	BELOW GROUND
℄	CENTER LINE
CD	CONDENSATE
CEC	CALIFORNIA ENERGY COMMISSION
CFH	CUBIC FEET PER HOUR
CLG	CEILING
CISPI	CAST IRON SOIL PIPE INSTITUTUE
CPC	CALIFORNIA PLUMBING CODE
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DWGS	DRAWINGS
(E)	EXISTING
ENT	ENTERING
°F	DEGREES FAHRENHEIT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FT	FEET
FT/SEC	FEET PER SECOND
FU	FIXTURE UNIT
FV	FLUSH VALVE
G	GAS
GAL	GALLON
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB/HB-WB	HOSE-BIBB/HOSE BIBB-WALL BOX
HET	HIGH EFFICIENCY TOILET
HW	HOT WATER
HWR	HOT WATER RETURN
ID	IDENTIFICATION
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
IWH	INSTANTANEOUS WATER HEATER
KW	KITCHEN WASTE/KILOWATT
LBS	POUNDS
LVG	LEAVING
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS
MIN	MINIMUM
MISC	MISCELLANEOUS
MSS	MANUFACTURERS STANDARD SOCIETY
MSS SP-58	PIPE HANGERS AND SUPPORTS - MATERIALS DESIGN AND MANUFACTURE
MSS SP-69	PIPE HANGERS AND SUPPORTS - SELECTION AND APPLICATION
(N)	NEW
NO	NUMBER
NSF 61	NATIONAL SANITATION FOUNDATION - DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN/OUTSIDE DIAMETER
PSIG	POUNDS PER SQUARE INCH, GAGE
QTY	QUANTITY
RD	ROOF DRAIN
REQ'D	REQUIRED
RWL	RAIN WATER LEADER
S	SANITARY SEWER
SD	STORM DRAIN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SS	STAINLESS STEEL
TEMP	TEMPERATURE
TW	TEMPERED WATER
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
V	VENT
V/PH/Hz	VOLTS/PHASE/HERTZ
VTR	VENT TO ROOF
W/	WITH
±	PLUS/MINUS
%	PERCENTAGE

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DATE FEBRUARY 9, 2015
DRAWN BY PW
CHECKED BY AK
BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1627 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

P0.1

PLUMBING GENERAL NOTES, LEGEND & ABBREVIATIONS

PLUMBING FIXTURE AND CONNECTION SCHEDULE

SYMBOL	FIXTURE	TRAP	WASTE	VENT	CW	HW	TW	SPECIFICATION
WC-1 (ADA)	WATER CLOSET	INTEGRAL TRAP	4	2	1	-	-	ADA COMPLIANT, FLOOR MOUNTED, AMERICAN STANDARD "CHAMPION ELONGATED RIGHT HEIGHT TOILET" MODEL 211AA.104, VITREOUS CHINA SIPHON JET BOWL, 1.28 GALLONS PER FLUSH WITH PISTON FLUSH VALVE. PROVIDE WITH AMERICAN STANDARD "CHAMPION SLOW CLOSE" MODEL 5325.010, CLOSET BOLT/WAX RING.
LAV-1 (ADA)	LAVATORY	1 1/4	1 1/2	1 1/2	1/2	1/2	-	ADA COMPLIANT, WALL-HUNG, 20 1/2" x 18-1/4" VITREOUS CHINA WITH 3 HOLES ON 4" CENTERS LAVATORY AMERICAN STANDARD LUCERNE MODEL 0355.012 WITH PAIRED CHICAGO FAUCETS MODEL MODEL 2200-4E39VPABCP WITH SINGLE LEVER FAUCET WITH AN INTEGRAL BRASS 4-3/4" CENTERLINE SPOUT, VANDAL-RESISTANT, AND ADA COMPLIANT COLOR-CODED HANDLE, GRID STRAINER DRAIN AND P-TRAP WITH CLEANOUT. PROVIDE LAVATORY PIPING AND DRAIN GUARD AND FIXTURE SUPPORT CARRIER BY WATTS MODEL TCA-411. PROVIDE UNDERDECK TEMPERATURE MIXING VALVE WITH CHECK STOPS FOR LAVATORY WITH HOT WATER SUPPLY ONLY.
LAV-2 (ADA)	LAVATORY	1 1/4	1 1/2	1 1/2	1/2	1/2	-	ADA COMPLIANT, COUNTER-TOP MOUNTED, 19 1/8" ROUND x 5 3/4" DEEP VITREOUS CHINA WITH 3 HOLES ON 4" CENTERS LAVATORY AMERICAN STANDARD MODEL 0491.019 WITH PAIRED CHICAGO FAUCETS MODEL 2200-4E39VPABCP WITH SINGLE LEVER FAUCET WITH AN INTEGRAL BRASS 4-3/4" CENTERLINE SPOUT, VANDAL-RESISTANT, AND ADA COMPLIANT COLOR-CODED HANDLE, GRID STRAINER DRAIN AND P-TRAP WITH CLEANOUT. PROVIDE LAVATORY PIPING AND DRAIN GUARD. PROVIDE UNDERDECK TEMPERATURE MIXING VALVE WITH CHECK STOPS FOR LAVATORY WITH HOT WATER SUPPLY ONLY.
SH-1 (ADA)	TUB & SHOWER FIXTURES	1 1/2	1 1/2	1 1/2	1/2	1/2	-	ADA COMPLIANT, TUB AND SHOWER SYSTEM SYMMONS INDUSTRIES MODEL 1-317VT-FS-1.5 WITH SHOWER HEAD, HAND SPRAY INCLUDING 5 FEET METAL HOSE, TUB SPOUT, PRESSURE BALANCING MIXING VALVE INCLUDING INTEGRAL THERMOMETER, STOPS AND LEVER HANDLES. PROVIDE SHOWER DRAIN BY ZURN MODEL FD2250, CAST IRON BODY
EEW-1 (ADA)	EMERGENCY EYEWASH	-	-	-	1/2	-	-	ADA COMPLIANT, FAUCET MOUNTED EMERGENCY EYE WASH, STAINLESS STEEL HAWS MODEL 7620 WITH INVERTED DIRECTIONAL LAMINAR FLOW AND THERMOSTATIC PROTECTION.
SK-1	SINK	2	2	1 1/2	1/2	1/2	-	UTILITY SINK WITH LEGS, 8" HIGH BACK SPLASH AND 36" DRAINBOARD, 24"x24"x12"D SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, ADVANCE TABCO MODEL 9-41-24-36-R WITH 2 HOLES ON 8" CENTERS, SWING GOOSENECK SPOUT AND LEVER HANDLES ADVANCE TABCO MODEL K116 WITH MIXING VALVE AND STAINLESS STEEL SINK STRAINER.
SK-2 (ADA)	SINK	1 1/2	1 1/2	1 1/2	1/2	1/2	-	ADA COMPLAINT, CONFERENCE SINK, 19"x18" SINGLE COMPARTMENT (19"x18"x6-1/2"D), 18 GAUGE TYPE 304 STAINLESS STEEL, COUNTER MOUNTED ELKAY MODEL LRAD1918 WITH 3 HOLES ON 4" CENTERS, UNDERSIDE FULLY COATED TO DAMPEN SOUND AND REDUCE CONDENSATE, SWING GOOSENECK SPOUT AND 4" WRIST BLADE HANDLES ZURN MODEL Z831B4-XL-G-16F, AND STAINLESS STEEL SINK STRAINER.
SK-3 (ADA)	SINK	2	2	1 1/2	1/2	1/2	-	ADA COMPLIANT, KITCHEN SINK 31" x 22" SINGLE COMPARTMENT (28" x 16" x 6-1/2" D), 18 GAUGE TYPE 304 STAINLESS STEEL, COUNTER MOUNTED ELKAY MODEL LRAD 3122 WITH 2 HOLES ON 8" CENTERS, UNDERSIDE FULLY UNDERCOATED TO DAMPEN SOUND AND REDUCE CONDENSATE, SWING GOOSENECK SPOUT AND WRIST BLADE LEVER HANDLE KOHLER MODEL K-8763 WITH HAND SPRAY, STAINLESS STEEL SINK STRAINER. PROVIDE UNDERDECK TEMPERATURE MIXING VALVE WITH CHECK STOPS FOR SINK WITH HOT WATER SUPPLY ONLY.
SK-4	SINK	1 1/2	1 1/2	1 1/2	1/2	1/2	-	LAUNDRY SINK, 24"x24" SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, ADVANCE TABCO MODEL 9-41-24 WITH 2 HOLES ON 8" CENTERS, SWING GOOSENECK SPOUT AND LEVER HANDLES ADVANCE TABCO MODEL K-116 WITH MIXING VALVE AND STAINLESS STEEL SINK STRAINER.
HB-1	HOSE BIB	-	-	-	3/4	-	-	OUTDOOR RECESSED HOSE BIB WITH INTEGRAL VACUUM BREAKER AND DOOR KEY LOCK FOR OUTDOOR USE, ACORN MODEL 8160.
HB-2	HOSE BIB	-	-	-	3/4	-	-	PROVIDE VACUUM BREAKER AND LOOSE KEY HANDLE FOR INDOOR USE, ZURN MODEL Z1341.
RH-1	ROOF HYDRANT	-	-	-	1	-	-	ROOF HYDRANT WITH AUTO DRAIN DUAL CHECK BACKFLOW PREVENTER, 3/4" MALE HOSE CONNECTION, 1" INLET CW CONNECTION, CAST IRON HYDRANT SUPPORT, CAST IRON UNDER DECK FLANGE, WOODFORD MODEL RHMC-MS AND 2 DEGREE SHIM. PROVIDE ROOF FLASHING.
SS-1	SERVICE SINK	3	3	1 1/2	3/4	3/4	-	SERVICE SINK 24" x 24" MOLDED STONE, FIAT MODEL MSB2424 WITH 3" OUTLET, AND SINK FAUCET FIAT MODEL 830-AA WITH VACUUM BREAKER, PAIL HOOK, STAINLESS STEEL SINK STRAINER AND ADJUSTABLE WALL BRACE.
SS-2	SERVICE SINK	3	3	1 1/2	3/4	3/4	-	SERVICE SINK 36" x 24" MOLDED STONE, FIAT MODEL MSB3624 WITH 3" OUTLET, AND SINK FAUCET FIAT MODEL 830-AA WITH VACUUM BREAKER, PAIL HOOK STAINLESS STEEL SINK STRAINER AND ADJUSTABLE WALL BRACE.
FD-1	FLOOR DRAIN	2	2	1 1/2	1/2	-	-	PROVIDE TRAP PRIMER
FS-1	FLOOR SINK	2	2	1 1/2	1/2	-	-	PROVIDE TRAP PRIMER
TD-1, 3	TRENCH DRAIN	4	4	2	1/2	-	-	PROVIDE TRAP PRIMER
TD-2	TRENCH DRAIN	3	3	2	1/2	-	-	PROVIDE TRAP PRIMER

FIXTURE NOTES:

1. ALL VITREOUS CHINA FIXTURES SHALL BE TWICE FIRED GRADE.
2. WATER CLOSETS SHALL FLUSH WITH NO MORE THAN 1.1 GALLONS PER FLUSH, FAUCETS FOR LAVATORIES SHALL FLOW AT NO MORE THAN 0.50 GALLONS PER MINUTE, FAUCETS FOR SERVICE SINKS SHALL FLOW AT NO MORE THAN 1.8 GALLONS PER MINUTE AND FAUCETS FOR SINKS SHALL FLOW AT NO MORE THAN 1.8 GALLONS PER MINUTE.
3. INSTALL PLUMBING FIXTURES AND TRIM FROM ONE MANUFACTURER FOR UNIFORMITY OF INSTALLATION.
4. PROVIDE LISTED MANUFACTURER'S AND ASSOCIATED MODEL NUMBERS OR APPROVED EQUAL.

GAS FIRED INSTANTANEOUS TANKLESS WATER HEATER SCHEDULE

EQUIP. ID.	LOCATION	TYPE	TOTAL GPM	MIN. GPM	TOTAL CAPACITY	RISE IN TEMP	ENT. WATER TEMP	LVG. WATER TEMP	CW/HW CONNECTIONS	GAS CONNECTION	FLUE CONNECTION	V/PH/HZ	REMARKS	MANUFACTURER OR APPROVED EQUAL
					MBH	DEG. F	DEG. F	DEG. F	IN.					
IWH-1.1	INDOOR	80% EFF. TANKLESS WATER HEATER	3.5	0.5	120	55	55	110	3/4	1/2	-	120/1	SEE NOTES BELOW	NORITZ MODEL NR501
IWH-1.2	INDOOR	80% EFF. TANKLESS WATER HEATER	11.3	0.7	380	55	55	110	1	3/4	5	120/1	SEE NOTES BELOW	NORITZ MODEL NC380-SV-ASME
IWH-1.3	INDOOR	80% EFF. TANKLESS WATER HEATER	9.6	0.7	380	65	55	120	1	3/4	5	120/1	SEE NOTES BELOW	NORITZ MODEL NC380-SV-ASME
IWH-1.4	INDOOR	80% EFF. TANKLESS WATER HEATER	9.6	0.7	380	65	55	120	1	3/4	5	120/1	SEE NOTES BELOW	NORITZ MODEL NC380-SV-ASME

NOTES:
1. PROVIDE DISCONNECT SWITCH.
2. PROVIDE FACTORY PRESET.
3. PROVIDE HIGH TEMPERATURE LIMIT SWITCH.
4. HEATERS WEIGH 200 LBS EACH.

DRAIN AND CLEANOUT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER OR APPROVED EQUAL	MODEL NO.	STRAINER TYPE	REMARKS
FD-1	FLOOR DRAIN	ZURN	ZN-415B-P-VP	6" ROUND TOP	PROVIDE 1/2" TRAP PRIMER CONNECTION AND VANDAL-PROOF SECURED TOP.
FS-1	FLOOR SINK	ZURN	Z-1900	12" SQUARE TOP OPEN	6" DEEP BODY, CAST IRON BODY WITH HALF GRATE.
TD-1	TRENCH DRAIN	ZURN	Z-886-HPD	80" x 6 3/4" TOP	-" DEEP BODY WITH NO HUB END OUTLETS AND CLASS B GRATE.
TD-2	TRENCH DRAIN	ZURN	Z-884-HPP	40" x 4 3/4" TOP	-" DEEP BODY WITH CLOSED END CAPS, BOTTOM OUTLET AND CLASS A GRATE.
TD-3	TRENCH DRAIN	ZURN	Z-874-12-HPD	80" x 12" TOP	-" DEEP BODY WITH CLOSED END CAPS, BOTTOM OUTLET AND CLASS C GRATE.
FCO	FLOOR CLEANOUT	ZURN	ZN-1400-HD	-	NICKEL BRONZE COVER ROUND.
WCO	WALL CLEANOUT	ZURN	ZN-1468	-	BRONZE TAPER PLUG, ROUND STAINLESS STEEL COVER AND VANDAL-PROOF SCREW.
COTG	CLEANOUT TO GRADE	ZURN	ZN-1400-HD	-	NICKEL BRONZE COVER ROUND.
TP	TRAP PRIMER	PRECISION PLUMBING PRODUCTS, INC.	P1-500	-	TRAP PRIMER WITH DISTRIBUTION UNIT MODEL DU-U.
WHA	WATER HAMMER ARRESTOR	ZURN	-	-	
RD/OFD	COMBINATION ROOF & OVERFLOW DRAIN	ZURN	Z-165-E	-	8-3/8" DIAMETER ROOF AND OVERFLOW DRAIN, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP, DOUBLE TOP-SET DECK PLATE, STATIC EXTENSION AND LOW SILHOUETTE CAST IRON DOME.

GARBAGE DISPOSER SCHEDULE

SYMBOL	DESCRIPTION	GRIND CHAMBER CAPACITY	DRAIN CONNECTION	ELECTRICAL 120V/1PH/60Hz	OVERALL HEIGHT	WEIGHT	REMARKS
		OUNCE	IN	HP/AMPS	INCHES	LBS	
GD-1	GARBAGE DISPOSER	50	2	1.0/10.2	12 5/8	21	PROVIDE INSINKERATOR MODEL 777SS OR APPROVED EQUAL WITH SOUND REDUCTION SYSTEM, AUTO REVERSE GRIND, STAINLESS STEEL GRINDING COMPONENTS AND CHAMBER.

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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02.3114
1627 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

P0.2

PLUMBING EQUIPMENT SCHEDULES

ELECTRIC TANKLESS DOMESTIC WATER HEATER CALCULATION

EQUIP. ID.	FIXTURE	GPM	QTY	TOTAL GPM	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	RISE IN TEMP. (DEG. F)
IWH-1.1, 1.2, 1.3 & 1.4	SHOWERS	1.80	4	7.20	55	110	55
	LAVATORIES	0.35	5	1.75	55	110	55
	WASH SINK	1.80	4	7.20	55	110	55
	WASHER (a)	22	1	22	55	130	75
	DISHWASHER (COLD WATER CONN. ONLY)	0.00	0	0.00	0	0	0
	MOP SINK	1.80	2	3.60	55	120	65
TOTAL GPM				41.75			

PLUMBING FIXTURE LOAD CALCULATION

FIXTURE	DESCRIPTION	QTY	TYPE	SANITARY SEWER		DOMESTIC WATER	
				FIXTURE UNITS	TOTAL FIXTURE UNITS	FIXTURE UNITS	CW TOTAL FIXTURE UNITS
WC-1	WATER CLOSET (FLUSHOMETER TANK)	5	PUBLIC	4	20	5.00	25.00
LAV-1 & 2	LAVATORY	5	PUBLIC	1	5	1.00	5.00
SS-1, 2	SERVICE SINK	2	PUBLIC	3	6	3.00	6.00
	COMMERCIAL WASHER (a), FS-3	1		10	10	35.00	35.00
	COMMERCIAL DISHWASHER (b), FS-1	1		2	2	3.00	3.00
SH-1	SHOWER	1	PUBLIC	2	2	2.00	2.00
SH-2	COMBINATION SHOWER/BATH	3	PUBLIC	2	6	4.00	12.00
SK-1, 2, 3 & 4	SINK	4	PUBLIC	3	12	3.00	12.00
FD-1 & 2, FS-1 & 2, TD-1	FLOOR DRAIN	19	PUBLIC	2	38	-	-
HB-1	HOSE BIBB (OUTDOOR)	1	PUBLIC	-	-	2.50	2.50
HB-1	HOSE BIBB (OUTDOOR - ADDITIONAL)	3	PUBLIC	-	-	1.00	3.00
RH-1	HOSE BIBB (ROOF - ADDITIONAL)	1	PUBLIC	-	-	1.00	1.00
TOTAL FIXTURE UNITS DEMAND					101		106.50
GPM CONVERSION							73
REQ'D PIPE SIZE PER BUILDING					4		2.5
VELOCITY (FT./SEC)							5.37
PRESSURE LOSS (PSI/100FT.)							1.79

NOTES:
1. WATER SUPPLY FIXTURE UNITS ARE CALCULATED ACCORDING TO 2013 CPC APPENDIX A TABLE A 2.1.
2. FIRST HOSE BIBB IS 2.5 FIXTURE UNITS AND EACH ADDITIONAL HOSE BIBB SHALL BE 1 FIXTURE UNIT PER 2013 CPC APPENDIX A TABLE A 2.1 NOTE #7.
3. SANITARY FIXTURE UNITS ARE CALCULATED ACCORDING TO 2013 CPC CHAPTER 7 TABLE 702.1.

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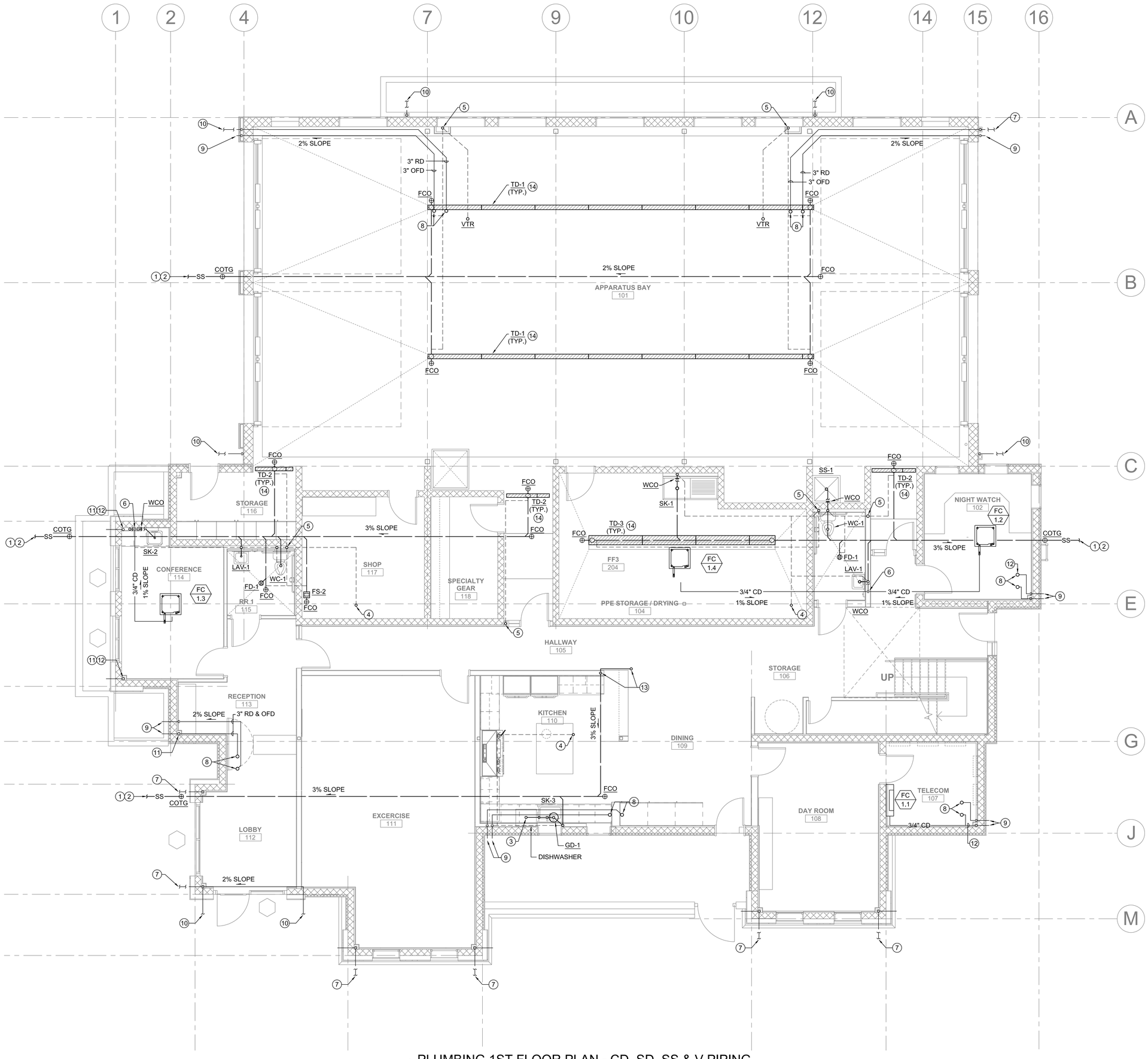
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

P0.3

PLUMBING EQUIPMENT SCHEDULES



1 PLUMBING 1ST FLOOR PLAN - CD, SD, SS & V PIPING
1/4" = 1'-0"

PLAN NORTH
TRUE NORTH

0 4 8 12 FT
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. SEE SHEET P0.1 FOR PLUMBING GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS P0.2 AND P0.3 FOR PLUMBING EQUIPMENT SCHEDULES.
3. SEE SHEETS P3.1 AND P3.2 FOR PLUMBING DETAILS.

KEY NOTES

(1) SS PIPING, BG TO SITE. SEE CIVIL DRAWINGS FOR CONTINUATION. CONTRACTOR TO INSTALL SS PIPING, BG WITHIN 5 FEET OF BUILDING.

(2) SEE CIVIL DRAWINGS FOR SS SYSTEM AND ASSOCIATED APPURTENANCES.

(3) DISHWASHER SS PIPING TO GARBAGE DISPOSER. SEE SHEET P3.2, PLUMBING DETAILS, DETAIL 6 FOR ADDITIONAL INFORMATION.

(4) V PIPING RISER UP TO SECOND FLOOR. SEE SHEET P1.2 FOR CONTINUATION.

(5) V PIPING DOWN INSIDE WALL, BG TO FLOOR DRAIN/SINK/TRENCH.

(6) 3/4" CD PIPING DOWN INSIDE WALL TO SINK/LAVATORY TAILPIECE.

(7) 3" RWL RISER TO EXTERIOR ROOF STORM WATER GUTTER DRAIN SYSTEM AND DOWN INSIDE INTERIOR PIPE CHASE TO DOWNSPOUT NOZZLE ABOVE GRADE.

(8) 3" RD & OFD PIPING RISER UP THRU' ROOF TO ROOFTOP COMBINATION ROOF AND OVERFLOW DRAIN ASSEMBLY.

(9) 3" RD & OFD PIPING DOWN INSIDE PIPE CHASE TO DOWNSPOUT NOZZLES ABOVE GRADE.

(10) 3" RWL RISER TO INSIDE EXTERIOR ROOF STORM WATER GUTTER DRAIN SYSTEM AND DOWN INSIDE INTERIOR PIPE CHASE TO DOWNSPOUT NOZZLE ABOVE GRADE.

(11) 3" RWL RISER UP TO SECOND FLOOR AND DOWN INSIDE PIPE CHASE TO DOWNSPOUT NOZZLE TO FLOW THRU' PLANTER, MIN. 3 FT ABOVE GRADE. SEE P1.2 SECOND FLOOR PLAN FOR CONTINUATION.

(12) INSULATE RWL PIPING DUE TO CD DISCHARGE.

(13) SS RISER PIPING DOWN, BG AND UP TO SECOND FLOOR. SEE SHEET P1.2 FOR SECOND FLOOR PLAN FOR CONTINUATION.

(14) TRENCH DRAIN ASSEMBLY CONSISTS OF MULTIPLE TRENCH DRAIN SECTIONS WITH SS PIPING OUTLET(S) AS INDICATED ON FLOOR PLAN.

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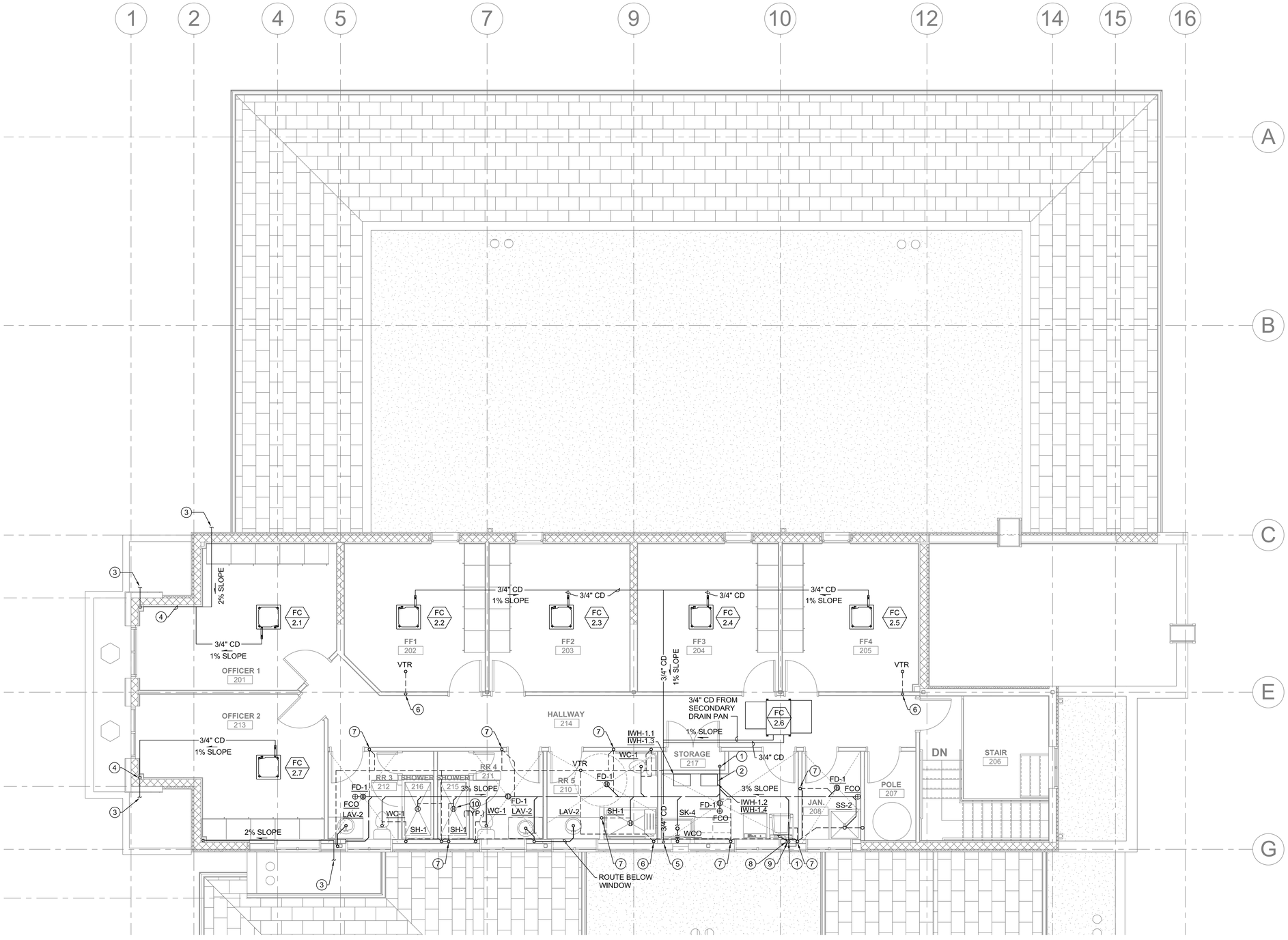
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

P1.1

PLUMBING 1ST FLOOR PLAN - CD, SD, SS & V PIPING



1 PLUMBING 2ND FLOOR PLAN - CD, SD, SS & V PIPING
1/4" = 1'-0"

SHEET NOTES

1. SEE SHEET P0.1 FOR PLUMBING GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS P0.2 AND P0.3 FOR PLUMBING EQUIPMENT SCHEDULES.
3. SEE SHEETS P3.1 AND P3.2 FOR PLUMBING DETAILS.

KEY NOTES

1. SS PIPING DOWN INSIDE PIPE CHASE TO FIRST FLOOR. SEE SHEET P1.1 FOR FIRST FLOOR PLAN FOR CONTINUATION.
2. STACKED TANKLESS WATER HEATERS, IWH 1.1 & 1.2 MOUNTED ABOVE AND IWH 1.3 & 1.4 MOUNTED BELOW.
3. 3" RWL RISER TO INTERIOR ROOF STORM WATER GUTTER DRAIN SYSTEM AND DOWN INSIDE PIPE CHASE TO FIRST FLOOR. SEE SHEET P1.1 FOR FIRST FLOOR PLAN FOR CONTINUATION.
4. INSULATE RWL PIPING DUE TO CD DISCHARGE.
5. 3/4" CD PIPING DOWN INSIDE WALL TO SINK/LAVATORY TAILPIECE.
6. V PIPING DOWN INSIDE WALL TO FIRST FLOOR. SEE SHEET P1.1 FOR FIRST FLOOR PLAN FOR CONTINUATION.
7. V PIPING DOWN INSIDE WALL TO FLOOR DRAIN/SINK.
8. RECESSED METAL WASHING MACHINE OUTLET BOX. SEE SHEET P1.4 FOR ADDITIONAL INFORMATION.
9. CONNECT SS PIPING TO WASHING MACHINE OUTLET BOX.
10. SHOWER DRAIN. SEE PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

PLAN NORTH / TRUE NORTH

0 4 8 12 FT
SCALE: 1/4" = 1'-0"

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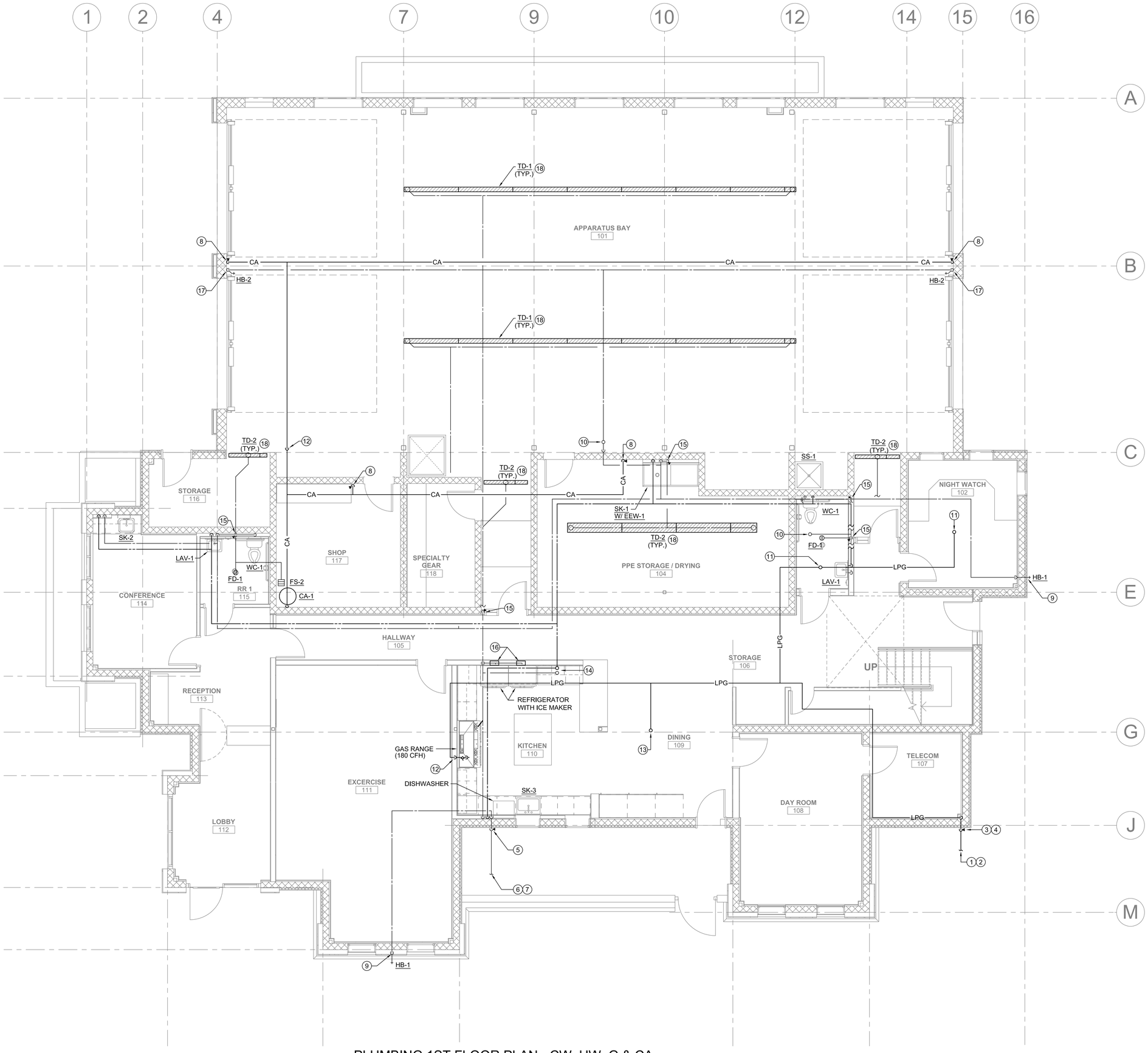
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ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1629 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

P1.2

PLUMBING 2ND FLOOR PLAN - CD, SD, SS & V PIPING



SHEET NOTES

1. SEE SHEET P0.1 FOR PLUMBING GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS P0.2 AND P0.3 FOR PLUMBING EQUIPMENT SCHEDULES.
3. SEE SHEETS P3.1 AND P3.2 FOR PLUMBING DETAILS.

KEY NOTES

1. LPG PIPING, BG TO SITE. SEE CIVIL DRAWINGS FOR CONTINUATION. CONTRACTOR SHALL INSTALL LPG PIPING, BG WITHIN 5 FEET OF BUILDING.
2. SEE CIVIL DRAWINGS FOR LPG PIPING SUPPLY INCLUDING GAS METER, PRESSURE REGULATOR (HIGH TO LOW PRESSURE) AND ASSOCIATED APPURTENANCES.
3. LPG PIPING RISER WITH TWO ISOLATION PLUG VALVES AND SEISMIC SHUT-OFF VALVE. INSTALL 30" AFF. WITH A PLUG VALVE BEFORE AND AFTER THE SEISMIC SHUT-OFF VALVE.
4. LPG PIPING RISER TIGHT AGAINST WALL FROM BELOW GRADE TO INSIDE PIPE CHASE UP TO CEILING SPACE. CONTRACTOR SHALL INSTALL PIPE UP INSIDE PIPE CHASE AFTER LAST PLUG VALVE.
5. CW PIPING RISER WITH RECESSED HOSE BIBB AT 30" AFF. AND ISOLATION VALVE. INSTALL ISOLATION VALVE BEFORE HOSE BIBB.
6. CW PIPING, BG TO SITE. SEE CIVIL DRAWINGS FOR CONTINUATION. CONTRACTOR SHALL INSTALL CW PIPING, BG WITHIN 5 FEET OF BUILDING.
7. SEE CIVIL DRAWINGS FOR CW PIPING SUPPLY INCLUDING WATER METER, BACKFLOW PREVENTER, PRESSURE REGULATOR AND ASSOCIATED APPURTENANCES.
8. 1/2" CA PIPING RISER WITH QUICK CONNECT OUTLET AND SHUT-OFF VALVE. CONTRACTOR SHALL VERIFY MOUNTING HEIGHT OF OUTLET IN FIELD WITH OWNER PRIOR TO INSTALLATION.
9. CW PIPING RISER DOWN INSIDE WALL TO RECESSED HOSE BIBB, HB-1. INSTALL 30" AFF.
10. CW PIPING RISER UP THRU' ROOF TO ROOFTOP ROOF HYDRANT, RH-1.
11. LPG PIPING UP THRU ROOF TO ROOFTOP AC UNIT.
12. LPG PIPING RISER DOWN INSIDE WALL TO GAS RANGE WITH QUICK DISCONNECT FITTINGS, PLUG VALVE AND DRIP LEG.
13. LPG RISER UP TO SECOND FLOOR. SEE SHEET P1.4 SECOND FLOOR PLAN FOR CONTINUATION.
14. HW & CW PIPING RISERS UP TO SECOND FLOOR. SEE SHEET P1.4 SECOND FLOOR PLAN FOR CONTINUATION.
15. CW PIPING DOWN INSIDE WALL, BG TO FLOOR DRAIN/SINK/TRENCH WITH TRAP PRIMER.
16. PROVIDE RECESSED METAL ICE MAKER OUTLET BOX BY OATEY OR APPROVED EQUAL WITH CW CONNECTION INCLUDING WATER HAMMER.
17. CW PIPING RISER DOWN TIGHT AGAINST WALL TO RECESSED HOSE BIBB, HB-2. INSTALL 30" AFF.
18. TRENCH DRAIN ASSEMBLY CONSISTS OF MULTIPLE TRENCH DRAIN SECTIONS WITH SS PIPING OUTLET(S) AS INDICATED ON FLOOR PLAN.

PLAN NORTH / TRUE NORTH

0 4 8 12 FT

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

1 PLUMBING 1ST FLOOR PLAN - CW, HW, G & CA

1/4" = 1'-0"

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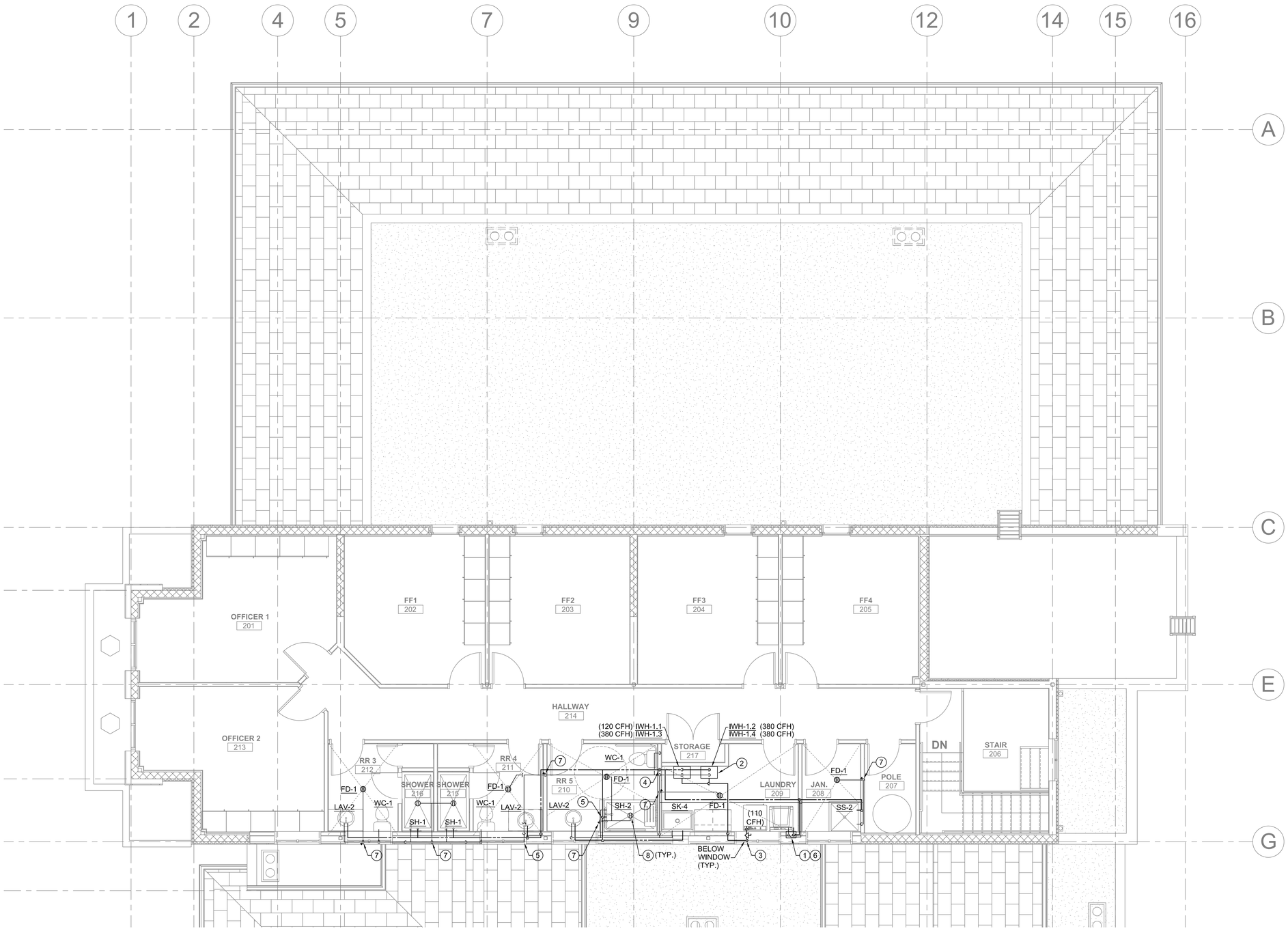
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1627 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

P1.3

PLUMBING 1ST FLOOR PLAN - CW, HW, G & CA



1 PLUMBING 2ND FLOOR PLAN - CW, HW, G & CA

1/4" = 1'-0"

SHEET NOTES

1. SEE SHEET P0.1 FOR PLUMBING GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS P0.2 AND P0.3 FOR PLUMBING EQUIPMENT SCHEDULES.
3. SEE SHEETS P3.1 AND P3.2 FOR PLUMBING DETAILS.

KEY NOTES

(1) PROVIDE RECESSED METAL WASHING MACHINE OUTLET BOX BY OATEY OR APPROVED EQUAL WITH HW, CW AND SS CONNECTIONS INCLUDING WATER HAMMER ARRESTER FOR SUPPLY LINES.

(2) STACKED TANKLESS WATER HEATERS, IWH 1.1 & 1.2 MOUNTED ABOVE AND IWH 1.3 & 1.4 MOUNTED BELOW.

(3) LPG PIPING RISER DOWN INSIDE WALL TO GAS DRYER WITH QUICK DISCONNECT FITTINGS, PLUG VALVE AND DRIP LEG.

(4) HW AND CW PIPING DOWN INSIDE WALL TO FIRST FLOOR. SEE SHEET P1.3 FIRST FLOOR PLAN FOR CONTINUATION.

(5) HW PIPING DOWN INSIDE WALL.

(6) CONNECT HW AND CW PIPING TO WASHING MACHINE OUTLET BOX.

(7) CW PIPING DOWN INSIDE WALL, BF TO FLOOR DRAIN/SINK WITH TRAP PRIMER.

(8) SHOWER DRAIN. SEE PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

PLAN NORTH

TRUE NORTH

0 4 8 12 FT

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

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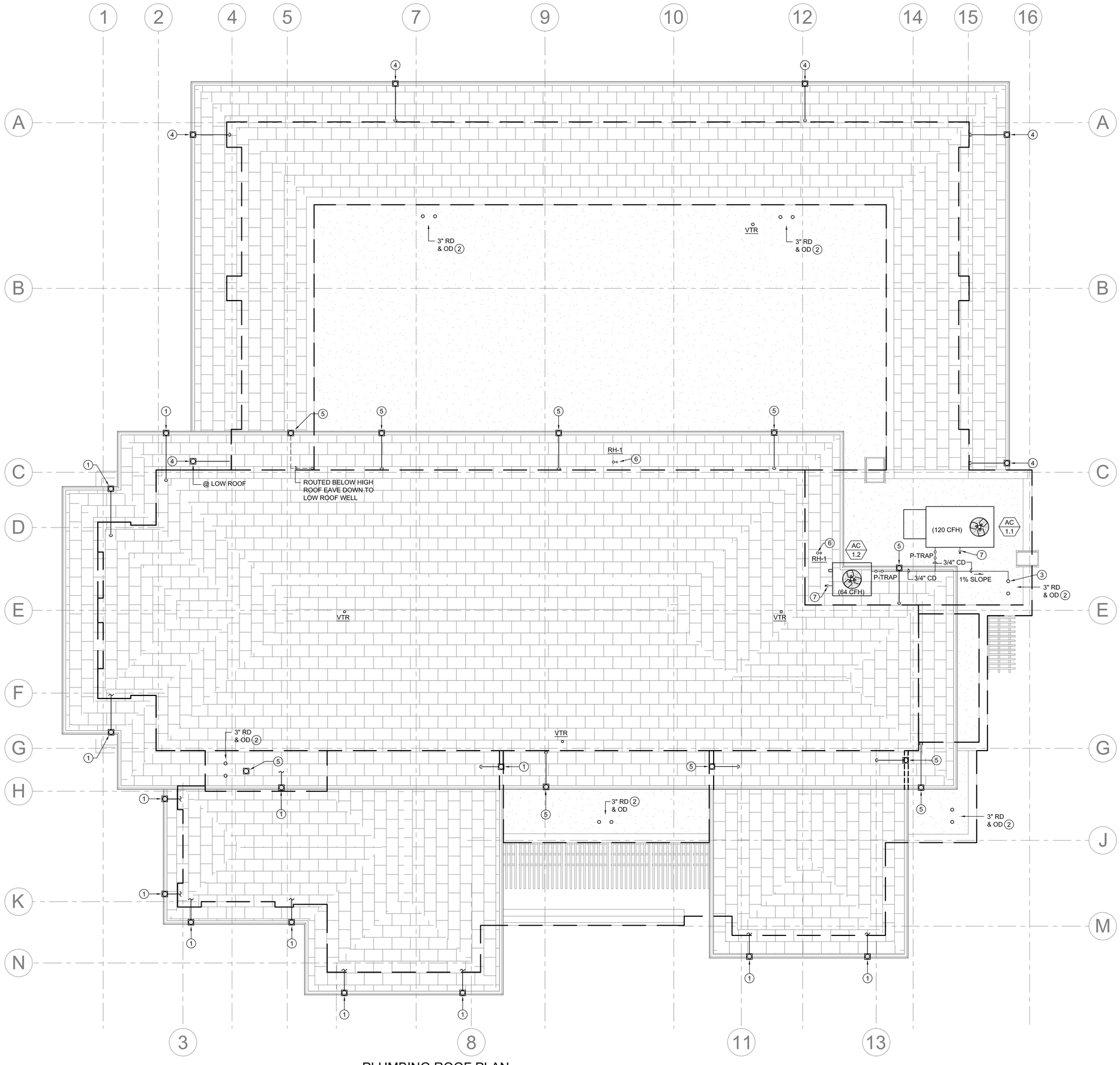
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

P1.4

PLUMBING 2ND FLOOR PLAN - CW, HW, G & CA



1 PLUMBING ROOF PLAN
1/4" = 1'-0"

PLAN NORTH

TRUE NORTH

0 4 8 12 FT
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. SEE SHEET P0.1 FOR PLUMBING GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. SEE SHEETS P0.2 AND P0.3 FOR PLUMBING EQUIPMENT SCHEDULES.
3. SEE SHEETS P3.1 AND P3.2 FOR PLUMBING DETAILS.

KEY NOTES

(1) 3" RWL PIPING FROM ROOF STORM WATER GUTTER DRAIN SYSTEM TO INSIDE OF INTERIOR PIPE CHASE.

(2) 3" RD & OD PIPING DOWN THRU' ROOF.

(3) 3/4" CD PIPING DOWN TO ROOF DRAIN. PROVIDE 1" MIN. AIR GAP FROM TOP OF ROOF DRAIN.

(4) 3" RWL PIPING FROM ROOF STORM WATER GUTTER DRAIN SYSTEM TO INSIDE OF EXTERIOR PIPE CHASE.

(5) 3" RWL PIPING FROM ROOF STORM WATER GUTTER DRAIN SYSTEM TO DOWNSPOUT NOZZLE. MOUNT ON EXTERIOR WALL ABOVE ROOF WELL FLOOR.

(6) CW PIPING DOWN THRU' ROOF.

(7) LPG RISER PIPING WITH ISOLATION PLUG VALVE AND DRIP LEG TO UNIT AND DOWN THRU' ROOF.

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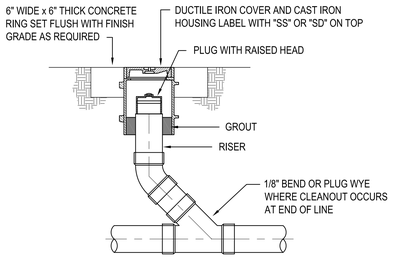
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PROJECT NO. 023114
1627 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

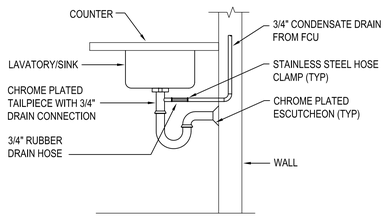
P2.1

PLUMBING ROOF PLAN

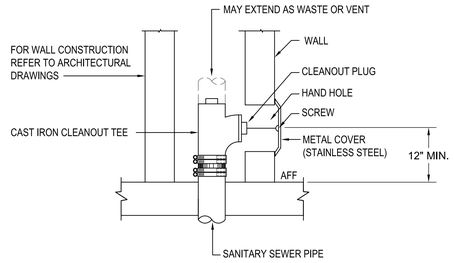


NOTE:
1. TYPICAL FOR SANITARY SEWER AND STORM DRAIN.

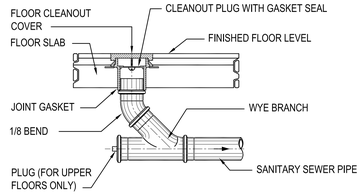
1 P3.1 GRADE CLEANOUT DETAIL
NTS



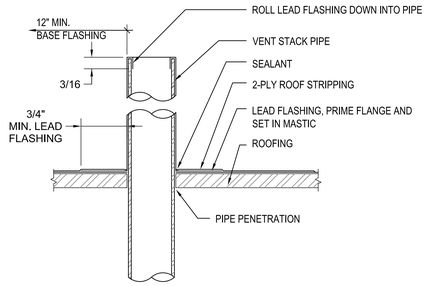
2 P3.1 CONDENSATE TRAP
NTS



3 P3.1 WALL CLEANOUT DETAIL
NTS

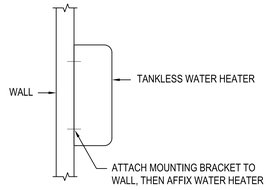


4 P3.1 FLOOR CLEANOUT DETAIL
NTS



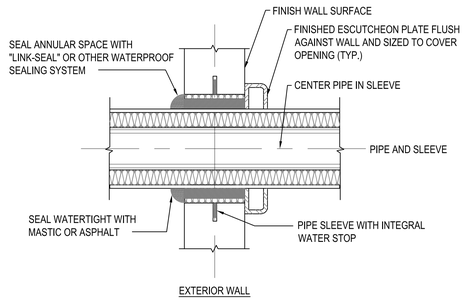
NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR FLASHING DETAIL

5 P3.1 VENT PIPE ROOF PENETRATION (VTR)
NTS

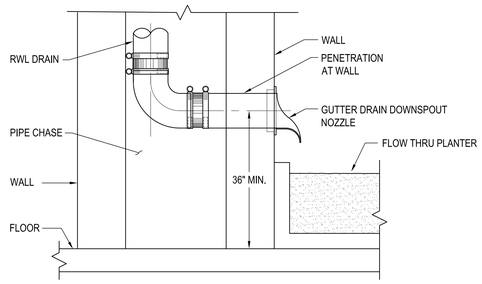


NOTE: FOLLOW MANUFACTURER'S INSTALLATION GUIDELINES INCLUDING MIN. CLEARANCES

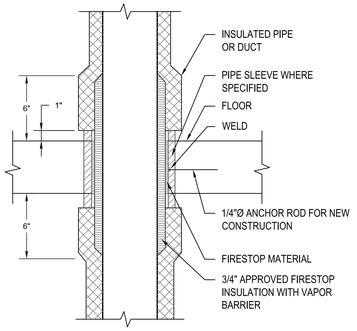
6 P3.1 TANKLESS WATER HEATER IWH-1.1 & IWH-1.2
NTS



7 P3.1 PIPE SLEEVE PENETRATION THRU WALL DETAIL
NTS



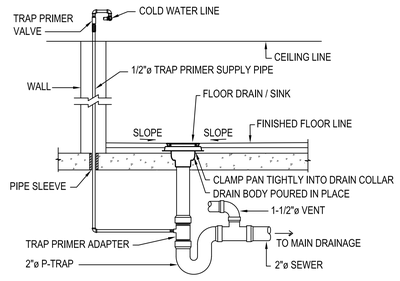
8 P3.1 GUTTER DRAIN SYSTEM RISER DETAIL
NTS



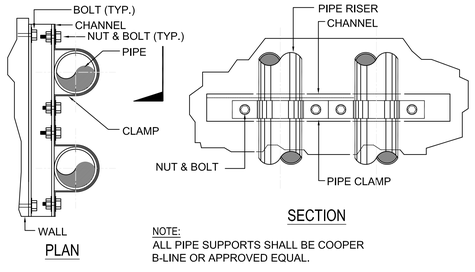
FLOOR OR DECK PENETRATION

NOTE APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH LATEST CALIFORNIA BUILDING CODE. REFER TO SPECIFICATIONS FOR FIRE STOPPING SYSTEMS.

9 P3.1 PIPE PENETRATION OF FIRE/SMOKE BARRIERS
NTS



10 P3.1 FLOOR DRAIN / SINK DETAIL
NTS



NOTE:
ALL PIPE SUPPORTS SHALL BE COOPER B-LINE OR APPROVED EQUAL.

12 M3.1 PIPE RISER SUPPORT DETAIL
NTS

NOTES:
1. ALL PIPE HANGERS AND SUPPORTS SHALL BE COOPER B-LINE OR APPROVED EQUAL.
2. PROVIDE A MINIMUM OF 2 HANGERS PER PIPE SECTION.
3. ALL COMPONENTS OF HANGER SYSTEM SHALL BE HOT DIP GALVANIZED AFTER FABRICATION AND BITUMASTIC COATED AFTER INSTALLATION.
4. PROVIDE HANGERS AT ALL PIPING BELOW THE BUILDING.

11 P3.1 TYPICAL SUSPENDED PIPING BELOW FLOOR SLAB
NTS

NOT FOR CONSTRUCTION

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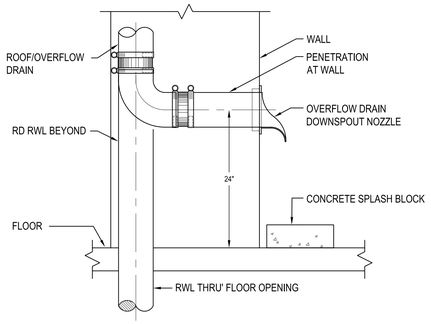
DATE	FEBRUARY 9, 2015
DRAWN BY	PW
CHECKED BY	AK
BRW PROJECT NUMBER	214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

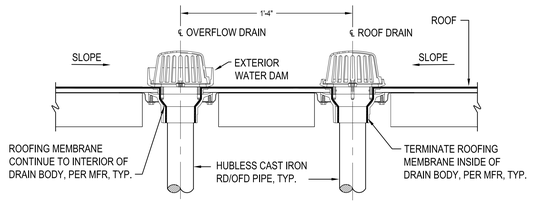
No.	Description	Date

P3.1

PLUMBING DETAILS

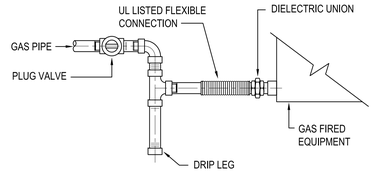


1 P3.2 ROOF AND OVERFLOW DRAIN RISER DETAIL
NTS

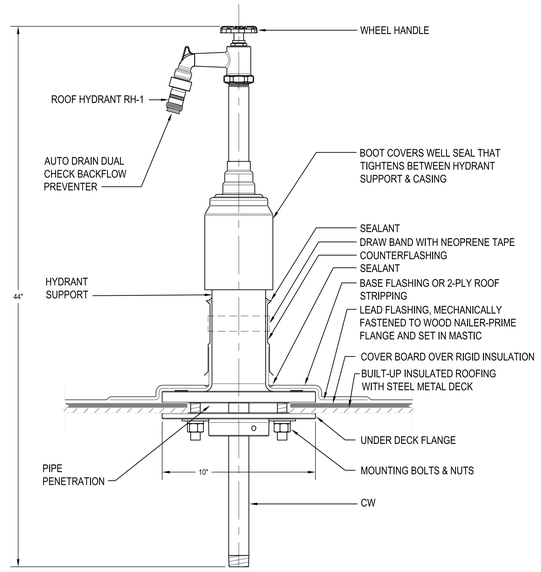


NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF AND FLASHING DETAILS.
2. INSTALL RD/OFD PER MANUFACTURER'S GUIDELINES.

2 P3.2 ROOF/OVERFLOW DRAIN DETAIL
NTS

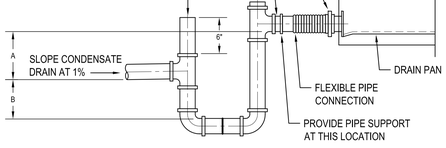


3 P3.2 GAS CONNECTION DETAIL
NTS



NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR ROOF AND FLASHING DETAILS.

4 P3.2 ROOF MOUNTED HOSE BIBB DETAIL
NTS



DRAW THROUGH COIL	
A	B
SEE NOTE 1	SEE NOTE 2
BLOW THROUGH COIL	
A	B
SEE NOTE 3	SEE NOTE 4

NOTES:
1. STATIC PRESSURE OF AIR CONDITIONING UNIT PLUS 1".
2. A/2 MINIMUM.
3. STATIC PRESSURE OF AIR CONDITIONING UNIT PLUS 1/2".
4. 1/2" MINIMUM.
5. INSULATE CONDENSATE PIPING.

1 P3.2 TYPICAL DRAIN AND TRAP FROM AIR HANDLING UNIT
NTS

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DATE	FEBRUARY 9, 2015
DRAWN BY	PW
CHECKED BY	AK
BRW PROJECT NUMBER	214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

P3.2

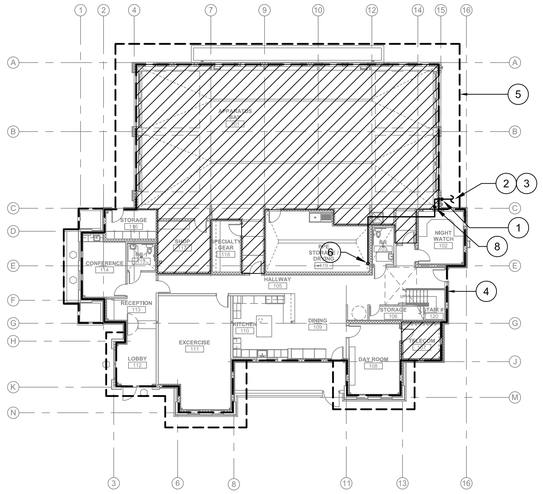
PLUMBING DETAILS

FIRE PROTECTION GENERAL NOTES

1. SEE CIVIL PLANS FOR UNDERGROUND INFORMATION. BACKFLOW PREVENTER VALVES, SPRINKLER CONTROL VALVES AND WATERFLOW SWITCH SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. THE DEVICES SHALL BE INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED BY THE FIRE ALARM CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR FIRE ALARM SYSTEM.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATION AND ROUTING TO AVOID OBSTRUCTION AND TO INSTALL BRACING IN ACCORDANCE WITH NFPA 13. ALL HANGERS AND EARTHQUAKE BRACING SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13.
3. CHANGES OF PIPE DIRECTION SHALL BE ACCOMPLISHED BY THE USE OF FITTINGS SUITABLE FOR SPRINKLER SYSTEMS AS DEFINED BY NFPA 13 AND THE SPECIFICATIONS.
4. WATER SUPPLY INFORMATION IS A RESULT OF DATA PERFORMED BY THE CITY OF ALAMEDA FIRE DEPARTMENT ON 07/24/2014 ON HYDRANTS AT GRAND/EAGLE AND BUENA VISTA/GRAND.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL RESPONSIBILITIES AS PART OF THE CONTRACT DOCUMENTS.
6. CONTRACTOR TO PROVIDE SUBMITTALS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. THE WET TYPE, AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH 2013 EDITION OF NFPA 13, CBC AND CFC. FOR EXAMPLE, SPRINKLERS SHALL BE QUICK RESPONSE TYPE PER NFPA 8.3.3.1 AND CFC 903.3.2.4; COMBUSTIBLE CONCEALED SPACES SHALL BE SPRINKLERED PER NFPA 11.2.3.1.4; CEILING PLENUM, IF APPLICABLE, SHALL BE SPRINKLERED PER CFC 903.2.19.1.1; REMOTE HYDRAULIC DESIGN AREA SHALL BE INCREASED PER NFPA 11.2.3.2.4 FOR SLOPED CEILING; REDUCTION OF DESIGN AREA FOR QUICK RESPONSE SPRINKLERS MAY NOT BE ALLOWABLE DUE TO HIGH CEILING. COORDINATE WITH CIVIL DISCIPLINE FOR ACTUAL LOCATION OF EBMUD POINT OF CONNECTION AND UNDERGROUND PIPING TO RISERS AND FINAL RISER LOCATIONS.
8. WORK INCLUDES PROVISION OF A COMPLETE WET TYPE AUTOMATIC FIRE SPRINKLER PROTECTION FOR THE ALAMEDA FIRE STATION #3, ON A DESIGN AND BUILD BASIS, CONTRACTOR IS RESPONSIBLE FOR ALL WORK, INCLUDING THE HYDRAULIC CALCULATIONS AND SHOP DRAWINGS PREPARATIONS NECESSARY FOR A COMPLETE OPERATING SYSTEM. THE CONTRACTOR SHALL DESIGN THE SPRINKLER SYSTEM PER SPECIFICATIONS (E.G., NFPA 13, HYDRAULIC CALCULATIONS). THE CONTRACTOR SHALL SUBMIT HYDRAULIC CALCULATIONS, SHOP DRAWINGS AND COORDINATION DRAWINGS (TO SCALE) SHOWING FLOOR PLANS WITH SPRINKLER LOCATIONS, PIPING LAYOUT, DIMENSIONS, PIPE SIZES, SEISMIC BRACING AND EQUIPMENT FOR REVIEW AND APPROVAL (BY FIRE MARSHAL AND DSA ENGINEER) PRIOR TO PURCHASE OR INSTALLATION/CONSTRUCTION. ALL WORK ON SPRINKLER SYSTEMS SHALL BE PERFORMED BY A CALIFORNIA LICENSED C-16 CONTRACTOR ONLY.
9. LONGITUDINAL BRACING SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 80 FEET. LATERAL BRACING SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 40 FEET. HANGERS SHALL BE INSTALLED WITHIN 4 INCHES OF BRACE.
10. ALL SYSTEM COMPONENTS SHALL BE U.L. LISTED FOR USE IN FIRE PROTECTION SYSTEMS.
11. PIPE HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND THE MANUFACTURER'S LISTINGS.
12. EARTHQUAKE BRACING SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS OF NFPA 13.
13. CONTROL VALVES SHALL BE INSTALLED AT A MAX. HEIGHT OF 7'-0" ABOVE FINISHED FLOOR.
14. PROVIDE SPARE HEAD CABINET STOCKED PER NFPA 13.
15. PROVIDE HANGERS WITH ENDLINE RESTRAINT PER NFPA.
16. PROVIDE PROPER ANNULAR CLEARANCE FOR PENETRATIONS THROUGH SOLID WALLS AND FLOORS AS REQUIRED BY THE NFPA 13.
17. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS AT THE JOB SITE FOR USE IN MAKING "AS-BUILT DRAWINGS" ANY REVISIONS SHALL BE NOTED THEREON AND SUBMITTED TO THE CITY OF ALAMEDA'S REPRESENTATIVE AT THE COMPLETION OF THE JOB. THE CONTRACTOR SHALL USE THE "AS-BUILT DRAWINGS" TO PROVIDE A REPRODUCIBLE RECORD SET OF THE COMPLETED SYSTEM AND SUBMIT THE RECORD SET TO THE CITY OF ALAMEDA'S REPRESENTATIVE.
18. ALL PIPING SHALL BE SCHEDULE 40. PLASTIC AND THINWALL PIPING ARE NOT ALLOWED. ALL PIPING SHALL BE INSTALLED TO CLEAR ALL OBSTRUCTIONS AND MOUNTED AND SUPPORTED RIGIDLY AND SECURELY TO MEET NFPA 13 STANDARDS. INSTALL PIPES AS HIGH AS POSSIBLE TO UNDERSIDE OF BEAM OR FLOOR/ROOF ABOVE.
19. ALL FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS FOR CONTROL AND MAINTENANCE.
20. UNLESS OTHERWISE NOTED, USE RECESSED PENDENT TYPE SPRINKLERS IN ALL AREAS WITH FINISHED OR DROPPED CEILINGS; USE PENDENT TYPE SPRINKLERS IN PANTRY AREAS, USE RECESSED PENDENT SPRINKLERS IN TOILETS AND SUPPLY AREAS AND USE PENDENT OR UPRIGHT SPRINKLERS IN AREAS WITH NO CEILING. ALL SPRINKLER PIPING SHALL BE CONCEALED AS MUCH AS POSSIBLE. ALL EXPOSED PIPING IN FINISHED AREAS SHALL BE PAINTED TO MATCH THE COLOR OF THE ADJACENT WALL OR CEILING.
21. PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. FIRE STOPPING SHALL BE LISTED PER UL LISTING AND APPROVED PER CBC.
22. HYDROSTATIC TESTS OF ALL SYSTEMS SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NFPA 13 REQUIREMENTS. THE ENTIRE INSTALLATION SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH NFPA 13 AND APPROVED BY THE FIRE MARSHAL PRIOR TO FINAL ACCEPTANCE.
23. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, ELEVATION AND TYPES OF DROPPED OR FINISHED CEILINGS. REFER TO ARCHITECTURAL FINISH DRAWING TO DETERMINE CONCEALED PENDENT SPRINKLER COVER PLATE FINISH. LOCATE SPRINKLER IN CENTER OF TILE AS MUCH AS POSSIBLE.

FIRE PROTECTION ABBREVIATIONS

BG	BELOW GRADE
CBC	CALIFORNIA BUILDING CODE
CFC	CALIFORNIA FIRE CODE
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT
GPM	GALLONS PER MINUTE
MAX	MAXIMUM
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OS&Y	OUTSIDE YOKE
POC	POINT OF CONNECTION
PSIG	POUNDS PER SQUARE INCH GAUGE
SQ. FT.	SQUARE FEET
TYP.	TYPICAL
UL	UNDERWRITER'S LABORATORY

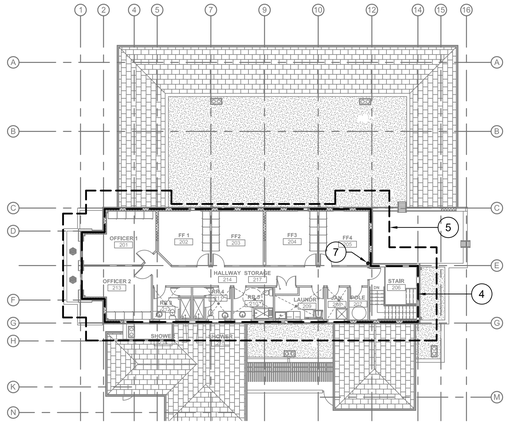


PLAN NORTH / TRUE NORTH

1 FIRE PROTECTION FIRST FLOOR PLAN

1/16" = 1'-0"

0 8' 16' 32'



PLAN NORTH / TRUE NORTH

2 FIRE PROTECTION SECOND FLOOR PLAN

1/16" = 1'-0"

0 8' 16' 32'

FIRE PROTECTION KEY NOTES

1. FIRE SPRINKLER PIPING DOWN TIGHT AGAINST WALL FROM BG TO CEILING SPACE.
2. FIRE PROTECTION PIPING, BG WITHIN 5 FEET OF THE BUILDING. SEE CIVIL DRAWINGS FOR POC, INVERT ELEVATION AND CONTINUATION.
3. SEE CIVIL DRAWINGS FOR FIRE PROTECTION PIPING SUPPLY INCLUDING BACKFLOW PREVENTER AND ASSOCIATED APPURTENANCES.
4. PROVIDE WET TYPE AUTOMATIC FIRE SPRINKLER PROTECTION SYSTEM INCLUDING CONCEALED ATTIC SPACE PER LATEST NFPA13.
5. PROVIDE WET TYPE AUTOMATIC FIRE SPRINKLER PROTECTION SYSTEM ON EXTERIOR CANOPY PER LATEST NFPA 13.
6. FIRE SPRINKLER RISER UP TO SECOND FLOOR.
7. FIRE SPRINKLER RISER FROM FIRST FLOOR INSIDE PIPE CHASE TO SECOND FLOOR CEILING SPACE.
8. FIRE SPRINKLER PIPING DOWN TIGHT AGAINST WALL TO FIRST FLOOR CEILING SPACE.

FIRE PROTECTION WATER DEMAND SCHEDULE

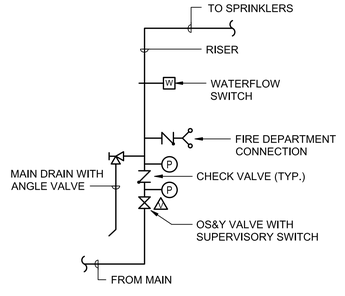
AREA SERVED	REFER TO FLOOR PLAN
OCCUPANCY CLASSIFICATION	LIGHT HAZARD
DENSITY	0.10 GPM PER SQ. FT.
DESIGN AREA	1500 SQ. FT.
DURATION OF SUPPLY	60 MINUTES
TOTAL COMBINED WATER DEMAND (SPRINKLER AND HOSE STREAM)	500 GPM TO 750 GPM
STATIC PRESSURE, (PSIG)/RESIDUAL PRESSURE, (PSIG)/FLOW (GPM)	65 PSIG/59 PSIG/840 GPM (CONTRACTOR SHALL PERFORM WATER FLOW TEST TO VERIFY ACTUAL / STATIC AND RESIDUAL PRESSURES AND AVAILABLE WATER FLOW RATES)

FIRE PROTECTION WATER DEMAND SCHEDULE

AREA SERVED	REFER TO FLOOR PLAN
OCCUPANCY CLASSIFICATION	ORDINARY HAZARD GROUP 1
DENSITY	0.15 GPM PER SQ. FT.
DESIGN AREA	1500 SQ. FT.
DURATION OF SUPPLY	90 MINUTES
TOTAL COMBINED WATER DEMAND (SPRINKLER AND HOSE STREAM)	850 GPM TO 1500 GPM
STATIC PRESSURE, (PSIG)/RESIDUAL PRESSURE, (PSIG)/FLOW (GPM)	65 PSIG/59 PSIG/840 GPM (CONTRACTOR SHALL PERFORM WATER FLOW TEST TO VERIFY ACTUAL / STATIC AND RESIDUAL PRESSURES AND AVAILABLE WATER FLOW RATES)

FIRE PROTECTION LEGEND

SYMBOLS	DESCRIPTION
	FIRE DEPARTMENT CONNECTION
W	FLOW SWITCH
	SUPERVISORY SWITCH
	OS&Y VALVE
	CHECK VALVE
	ANGLE VALVE
P	PRESSURE GAUGE
	AREA OF WORK
	(DN) DOWN OR DROP
	(UP) RISE OR RISER
	ORDINARY HAZARD, GROUP 1 OCCUPANCY CLASSIFICATION
1 --	SECTION/DETAIL LETTER/NUMBER WHERE THE SECTION/DETAIL WAS TAKEN FROM



3 / F0.1 SCHEMATIC RISER DIAGRAM

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DATE FEBRUARY 9, 2015
DRAWN BY PW
CHECKED BY AK
BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

F0.1

FIRE PROTECTION GENERAL NOTES & FLOOR PLANS

LAYOUT SYMBOLS

SYMBOLS	DESCRIPTION
	LIGHTING (SEE LIGHT FIXTURE SCHED FOR TYPE)
	2x2 RECESSED FLUORESCENT LIGHT FIXTURE
	1'X4' SURFACE MOUNTED LIGHT FIXTURE
	2'X4' SURFACE MOUNTED LIGHT FIXTURE
	HIGH BAY SUSPENDED CEILING LIGHT FIXTURE
	FLUORESCENT DOWN LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	CYLINDER PENDANT MOUNTED LIGHT FIXTURE
	PENDANT MOUNTED LIGHT FIXTURE
	WALLPACK LIGHT FIXTURE
OS	OCCUPANCY SENSOR AT THE CEILING
PS	PHOTO SENSOR AT THE CEILING
	RECEPTACLE/DATA OUTLETS
	WALL MOUNTED DUPLEX RECEPTACLE, NEMA 1, 120V, 20A, +18" AFF. UON.
	208V/30A RECEPTACLE, +18" AFF. (COORDINATE W ITH IT)
	SO CORD DROP WITH RECEPTACLE
	WALL MOUNTED DATA OUTLET +18" AFF UON
	FLOOR MOUNTED DUPLEX RECEPTACLE, 120V, 20A
	FLOOR MOUNTED DATA OUTLET
	SWITCH OUTLETS
$a	SWITCH 20A, SINGLE POLE, 120/277V, +48" TO TOP, UON. LETTER DENOTES SWITCHING CIRCUIT.
$3a	THREE-WAY SWITCH, 20A, SINGLE POLE, 120/277V, +48" TO TOP , UON. LETTERS DENOTE SWITCHING CIRCUIT.
OS a,b	OCCUPANCY SENSOR SWITCH, DUAL RELAY, 120/277V, +48" TO TOP, UON. LETTERS DENOTE SWITCHING CIRCUITS. LEVITON OSSMD OR APPROVED EQUAL.
PS	PHOTO SENSOR, WALL-MOUNT

LAYOUT SYMBOLS

SYMBOLS	DESCRIPTION
	CONDUCTORS, CONDUIT & PULLBOXES
	ELECTRICAL CONDUIT, 3/4" UON
	FLEX CONDUIT, 3/4" UON
C	TELE/COMMUNICATION CONDUIT WIRES, 1" UON
	HOMERUN WITH HASHMARK SHOWN AS NUMBER OF CONDUCTORS, 3/4"C MIN. WITH #12 MIN., THHN, CU, 600V, UON #12, A,B,C UON #12 NEUTRAL, UON #12 GND, UON
	ELECTRICAL EQUIPMENT
	PANELBOARD
M	MECHANICAL EQUIPMENT
J	JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	SYMBOL
1	KEY NOTE
XX / X-XX	LIGHT FIXTURE TAG FIXTURE TYPE QTY AND LAMP WATTAGE

GENERAL NOTES

1. EXAMINE ALL DRAWINGS AND FIELD VERIFY (E) ELECTRICAL CONDITIONS INCLUDING VOLTAGES, EXISTING CIRCUITS AND EXACT ROUTING OF ALL CONDUITS AND CONDITIONS IN AND AROUND CONDUIT RUNS.
2. COORDINATE ALL WORK TO AVOID INTERFERENCE BETWEEN ALL TRADES INCLUDING OTHER ONGOING CONSTRUCTION WHICH MAY INTERFERE.
3. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS OR SUPPLEMENTS OF APPLICABLE STATUES, ORDINANCES, CODES OR REGULATIONS OF STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
4. REPORT ANY DISCREPANCY TO ARCHITECT/ENGINEER PRIOR TO ANY WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF NEW WORK.
6. COORDINATE ALL WORK AND SHUTDOWNS WITH THE OWNER REPRESENTATIVE.
7. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION OF ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING CONDUITS, SURFACE-MOUNTED RACEWAYS, FITTINGS AND JUNCTION BOXES TO CONFORM WITH FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY REINFORCING WALLS AND/OR CEILINGS TO SUPPORT LIGHT FIXTURE WEIGHT. COMPLY WITH APPLICABLE CODES.
8. THE INSTALLATION OF THIS PROJECT SHALL BE MADE IN COMPLIANCE WITH THE LATEST NEC AND APPLICABLE CODES AND STANDARDS.
9. ALL CONCEALED RACEWAY TO BE ELECTRICAL METALLIC TUBING (EMT). ALL EXPOSED RACEWAY TO BE SURFACE METALLIC RACEWAY UNLESS OTHERWISE NOTED.
10. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND MOUNTING HEIGHTS PRIOR TO ELECTRICAL EQUIPMENT/DEVICE INSTALLATION.
11. ALL CONDUITS THROUGH FIRE RATED WALL AND FLOOR SHALL BE SEALED WITH CODE APPROVED FIRE STOP MATERIAL.

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	VOLTAGE	WATTAGE	DESCRIPTION
	A	120V	TBD	REFER TO CUTSHEETS
	B	120V	TBD	REFER TO CUTSHEETS
	C	120V	TBD	REFER TO CUTSHEETS
	D	120V	TBD	REFER TO CUTSHEETS
	E	120V	TBD	REFER TO CUTSHEETS
	F	120V	TBD	REFER TO CUTSHEETS
	G	120V	TBD	REFER TO CUTSHEETS
	H	120V	TBD	REFER TO CUTSHEETS

ABBREVIATIONS

&	AND
A, AMP	AMPERES
AMP	ALAMEDA MUNICIPAL POWER
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
COMM	COMMUNICATION
CONC	CONCRETE
CR	CARD READER
CU	COPPER
DWG(S)	DRAWING(S)
(E)	EXISTING
EA	EACH
ELEC.	ELECTRICAL
EM	EMERGENCY
EQPT	EQUIPMENT
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
IG	ISOLATED GROUND
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
MAX	MAXIMUM
MIN	MINIMUM
N	NEUTRAL
NF	NON-FUSE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
P	POLE
PB	PULL BOX
PH, Ø	PHASE
PNL	PANEL
QTY	QUANTITY
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
SCH	SCHEDULE
SP	SPARE
SWBD	SWITCHBOARD
TBD	TO BE DETERMINED
TEL	TELEPHONE, TELECOMMUNICATION
TRANS	TRANSFORMER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT(S), WIRE
WP	WEATHERPROOF

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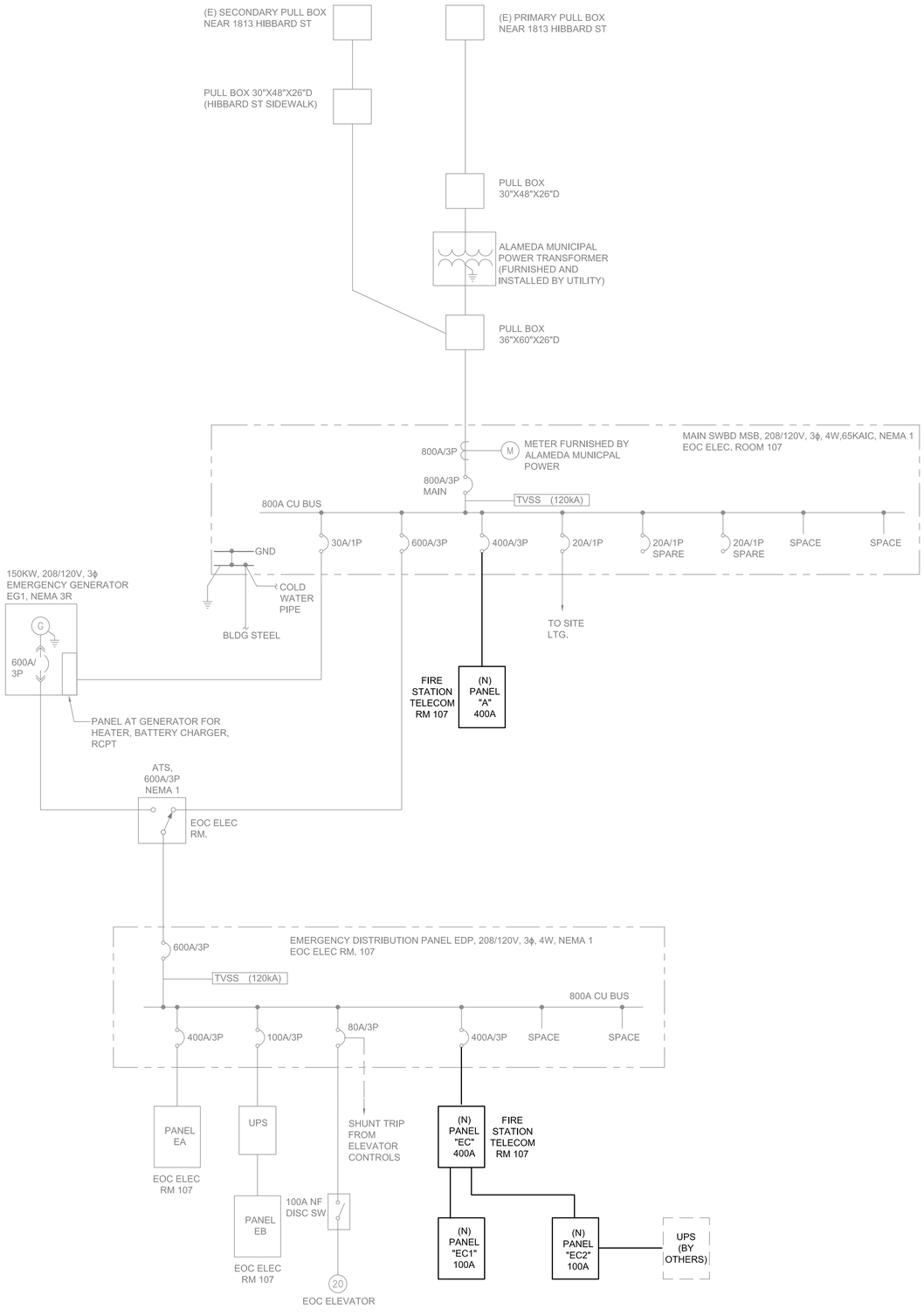
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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

E0.1

SYMBOLS ABBREVIATIONS
GENERAL NOTES &
LIGHTING SCHEDULE



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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1627 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

E0.2

SINGLE LINE DIAGROAM

Panel A — Voltage 208/120V, 3PH, 4W
Bus 400A — KAIC 10
Main — Location Telecom #107
Lugs MLO — Mounting SURFACE
NEMA 1 — Remark

Ckt.	Description	CB	Type	Load	Ph.	Load	Type	CB	Description	Ckt.
1	OH-1 DISC. SW	30/3	M	250	A	250	M	30/3	OH-2 DISC. SW.	2
3	–	–	M	250	B	250	M	–		4
5	–	–	M	250	C	250	M	–	–	6
7	OH-3 DISC. SW	30/3	M	250	A	250	M	30/3	OH-4	8
9	–	–	M	250	B	250	M	–	–	10
11	–	–	M	250	C	250	M	–	–	12
13	FUTURE SCBA	80/3	M	5000	A	5400	M	60/3	AC-1.1	14
15	–	–	M	5000	B	5400	M	–	–	16
17	–	–	M	5000	C	5400	M	–	–	18
19	CU-2.1	60/3	M	5200	A	746	M	30/3	EF-1.7	20
21	–	–	M	5200	B	746	M	–		22
23	–	–	M	5200	C	746	M	–		24
25	FAN	30/3	R	1243	A	3000	M	20/2	CU-1.1	26
27	–	–	M	1243	B	3000	M	–	–	28
29	–	–	M	1243	C					30
31					A					32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

Type:		Connected	Demand	Ph.	
C	Computer	–	–	A	21589
H	HVAC	–	–	B	21589
K	Kitchen	–	–	C	18589
L	Lighting	–	–		
M	Misc.	60,524	60,524		
R	Recept.	1,243	1,243		
	Total	61,767	61,767 =	171	Amps

Panel EC — Voltage 208/120V, 3PH, 4W
Bus 400A — KAIC 10
Main — Location Telecom #107
Lugs MLO — Mounting SURFACE
NEMA 1 — Remark

Ckt.	Description	CB	Type	Load	Ph.	Load	Type	CB	Description	Ckt.
1	COMPRESSOR DISC. SW	60/2	M	4000	A	3600	M	15/2	FC-1.5	2
3	–	–	M	4000	B	3600	M	–		4
5	EF-1.1	20/1	M	60	C	151	M	20/1	EF-1.3	6
7	EF-1.4	20/1	M	156	A	150	M	15/2	FC-1.5	8
9	EF-1.5	20/1	M	272	B	150	M	–	–	10
11	EF-1.6	20/1	M	57	C	150	M	15/2	FC-1.2	12
13	EF-1.8	20/1	M	129	A	150	M	–	–	14
15	EF-1.2	20/1	M	145	B	300	M	20/1	KITCHEN HOOD/VENT	16
17	EF-2.5	20/1	M	49	C	76	M	20/1	EF-2.4	18
19	EF-2.3	20/1	M	57	A	57	M	20/1	EF-2.2	20
21	EF-2.1	20/1	M	57	B	140	M	15/2	FC-2.7	22
23	FC-2.1	15/2	M	140	C	140	M	–	–	24
25	–	–	M	140	A	140	M	15/2	FC-2.2	26
27	FC-2.3	15/2	M	140	B	140	M	15/2	–	28
29	–	–	M	140	C	140	M	15/2	FC-2.4	30
31	FC-2.5	15/2	M	140	A	140	M	–	–	32
33	–	–	M	140	B	2000	M	15/2	AC-1.2	34
35	SPACE				C	2000	M	–	–	36
37	PANEL EC-1	100/3	M	12000	A	12000	M	100/3	PANEL-EC2	38
39	–	–	M	12000	B	12000	M	–	–	40
41	–	–	M	12000	C	12000	M	–	–	42

Type:		Connected	Demand	Ph.	
C	Computer	–	–	A	32859
H	HVAC	–	–	B	35084
K	Kitchen	–	–	C	27103
L	Lighting	–	–		
M	Misc.	95,046	95,046		
R	Recept.	–	–		
	Total	95,046	95,046 =	264	Amps

Panel EC1 — Voltage 208/120V, 3PH, 4W
Bus 100A — KAIC 10
Main — Location Elec Rm 107
Lugs MLO — Mounting SURFACE
NEMA 1 — Remark

Ckt.	Description	CB	Type	Load	Ph.	Load	Type	CB	Description	Ckt.
1	1ST FL RECEPTICALS	20/1	R	1000	A	1000	R	20/1	1ST FL RECEPT	2
3	1ST FL RECEPTICALS	20/1	R	1000	B	1000	R	20/1	1ST FL RECEPT	4
5	1ST FL RECEPTICALS	20/1	R	1000	C	1000	R	20/1	1ST FL RECEPT	6
7	1ST FL RECEPTICALS	20/1	R	1000	A	1000	R	20/1	1ST FL RECEPT	8
9	1ST FL RECEPTICALS	20/1	R	1000	B	1000	R	20/1	1ST FL RECEPT	10
11	1ST FL RECEPTIACLS	20/1	R	1000	C	1000	R	20/1	1ST FL RECEPT	12
13	1ST FLRECEPT	20/1	R	1000	A	1000	R	20/1	WIREMOLD	14
15	1ST FL RECEPT	20/1	R	1000	B	1000	R	20/1	1ST FL RECEPT	16
17	1ST FL RECEPT	20/1	R	1000	C	1000	R	20/1	1ST FL RECEPT	18
19	2ND FL RECEPT	20/1	R	1000	A	1000	R	20/1	1ST FL RECEPT	20
21	2ND FL RECEPT	20/1	R	1000	B	1000	R	20/1	2ND FL RECEPT	22
23	2ND FL RECEPT	20/1	R	1000	C	500	R	20/1	2ND FL RECEPT	24
25	2ND FL RECEPT	20/1	R	1000	A	1000	R	20/1	2ND FL RECEPT	26
27	2ND FL RECEPT	20/1	R	1000	B	1000	R	20/1	ROOF RECEPT	28
29	2ND FL RECEPT	20/1	R	1000	C	1000	R	20/1	APPARATUS BAY #101 RECEPT	30
31					A	1000	R	20/1	APPARATUS BAY #101 RECEPT	32
33					B					34
35					C					36
37					A					38
39					B					40
41					C					42

Type:		Connected	Demand	Ph.	
C	Computer	–	–	A	11000
H	HVAC	–	–	B	10000
K	Kitchen	–	–	C	9500
L	Lighting	–	–		
M	Misc.	–	–		
R	Recept.	30,500	20,250		
	Total	30,500	20,250 =	56	Amps

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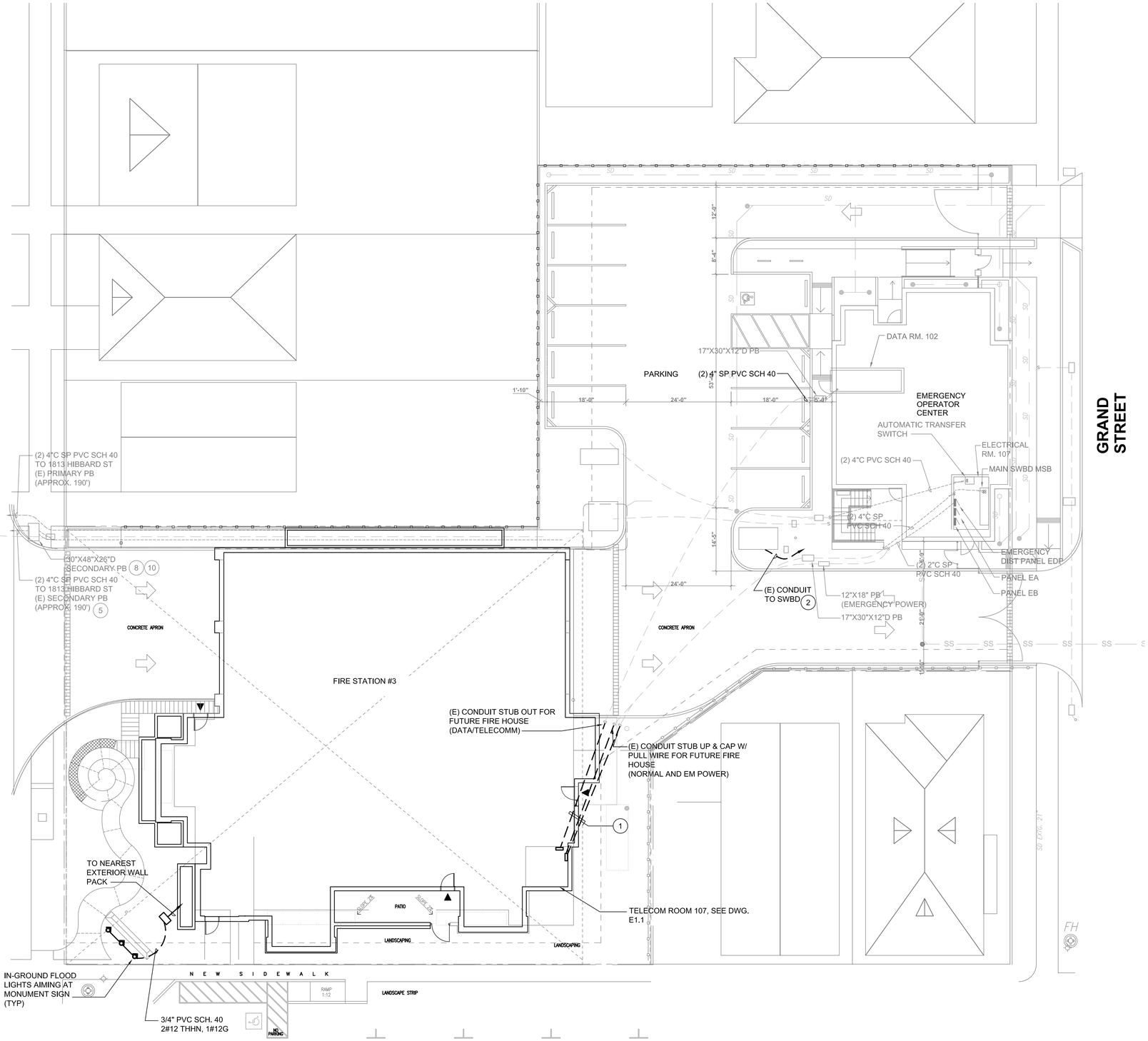
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ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1627 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

E0.3

PANELS SCHEDULE



KEY NOTES:

1. EXTEND CONDUITS TO ROOM 107. PROVIDE FEEDER CABLES AS SPECIFIED ON SINGLE LINE DIAGRAM.
2. PROVIDE 2#10 THHN, 1#10G INSIDE (E) CONDUIT.

PLAN NORTH

TRUE NORTH

1 SITE PLAN

1" = 10'-0"

0 5' 10' 20'

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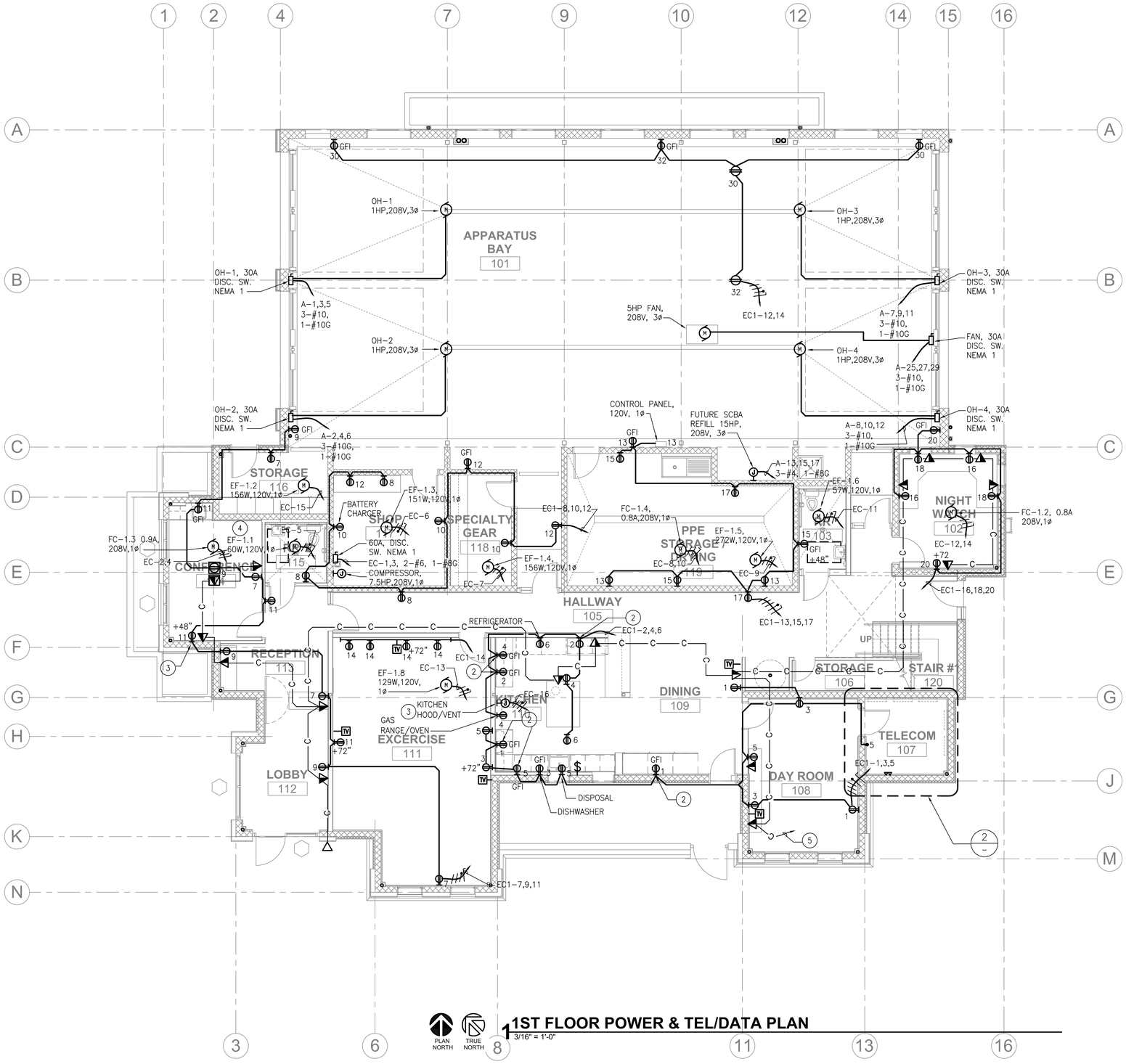
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1625 BUENA VISTA AVENUE
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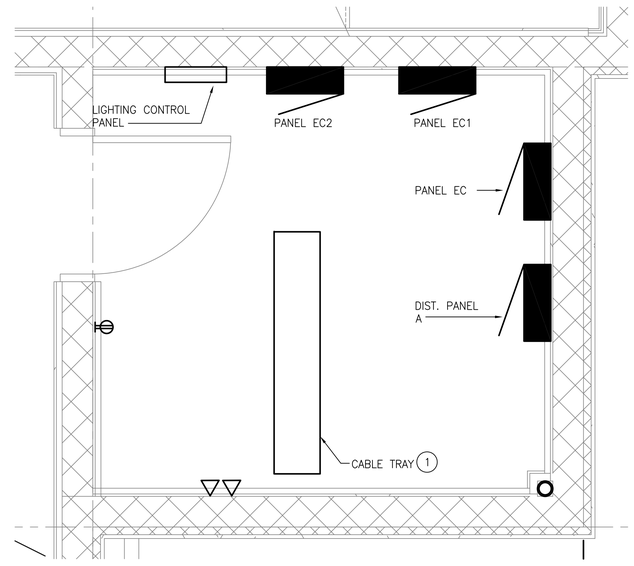
No.	Description	Date

E1.0

SITE PLAN



1 1ST FLOOR POWER & TEL/DATA PLAN
3/16" = 1'-0"



2 ENLARGED TELECOM. ROOM PLAN
3/4" = 1'-0"

SHEET NOTES:

1. ELEC. REQUIREMENTS FOR ALL EQUIPMENT FURNISHED BY OWNER SHALL BE COORDINATED AND PROVIDED (BY OWNER) DURING THE CD DESIGN PHASE.

KEY NOTES:

1. RECEPTACLES FOR SERVICE EQUIPMENT SHALL BE MOUNTED ON CABLE TRAY ABOVE. ELEC. REQUIREMENTS FOR SERVICE AND UPS SHALL BE PROVIDED BY AND COORDINATED WITH THE OWNER.
2. ABOVE COUNTER HEIGHT.
3. COORDINATE FINAL LOCATION OF EQUIPMENT IN FIELD.
4. INTERLOCK EXHAUST FANS WITH OCCUPANCY SENSOR SWITCH SERVING LIGHTS.
5. HOMERUN 1 1/2" TELE/COMM CONDUIT WITH WIRES TO TELECOM RM. 107

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CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1629 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

E1.1

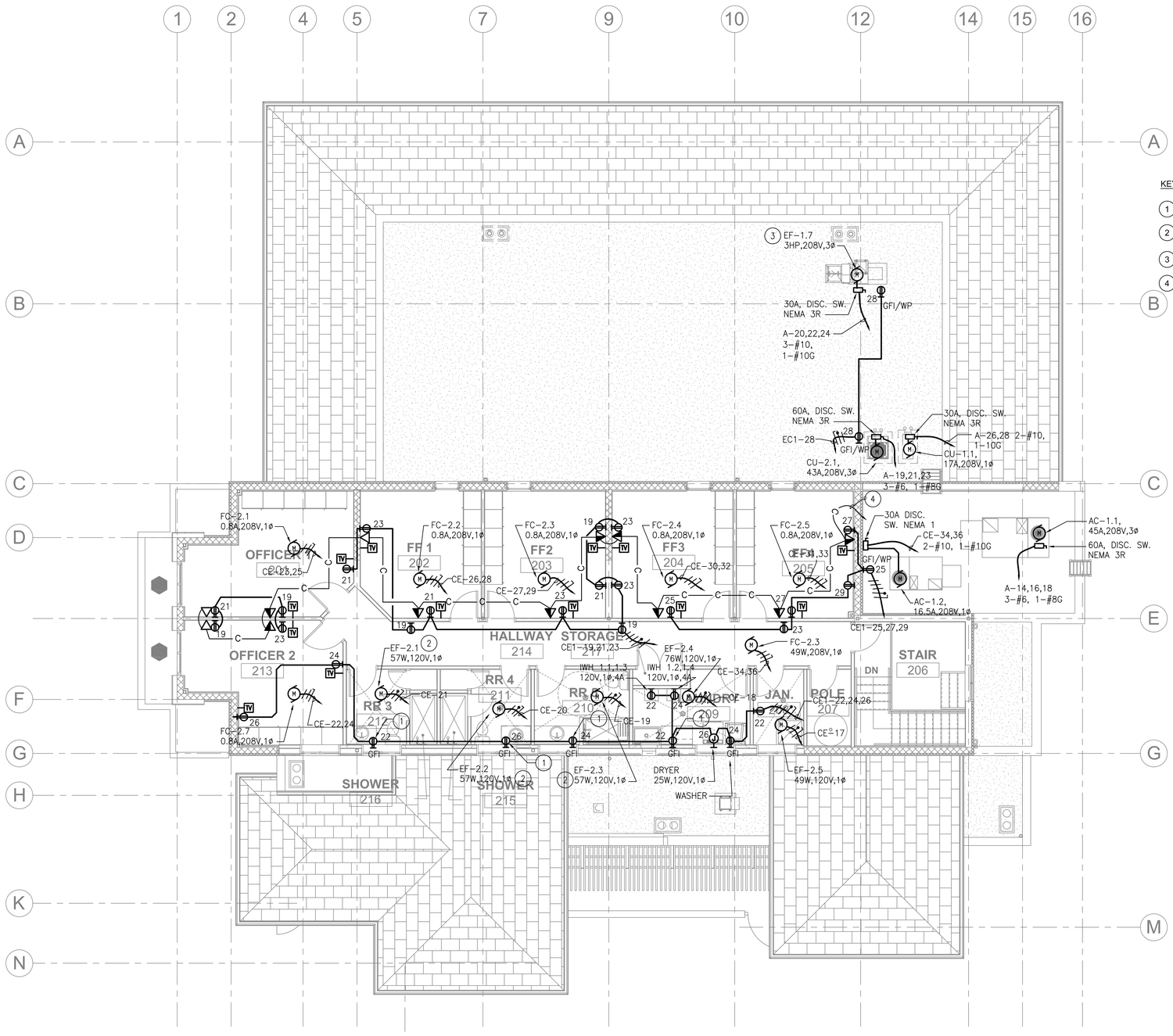
1ST FLOOR POWER & TEL/DATA PLAN

SHEET NOTES:

1. ELEC. REQUIREMENTS FOR ALL EQUIPMENT FURNISHED BY OWNER SHALL BE COORDINATED AND PROVIDED (BY OWNER) DURING THE CD DESIGN PHASE.

KEY NOTES:

1. ABOVE COUNTER HEIGHT.
2. INTERLOCK EXHAUST FANS WITH OCCUPANCY SENSOR SWITCH SERVING LIGHT.
3. EXHAUST FAN TO INTERLOCK WITH OVERHEAD DOORS.
4. HOMERUN 1 1/2" TELE/COMM CONDUIT WITH WIRES TO 1ST FL TELECOM ROOM 107



PLAN NORTH TRUE NORTH

1 2ND FLOOR POWER & TEL/DATA PLAN

3/16" = 1'-0"

4' 0' 4' 8' 12'

SCALE: 3/16"=1'-0"

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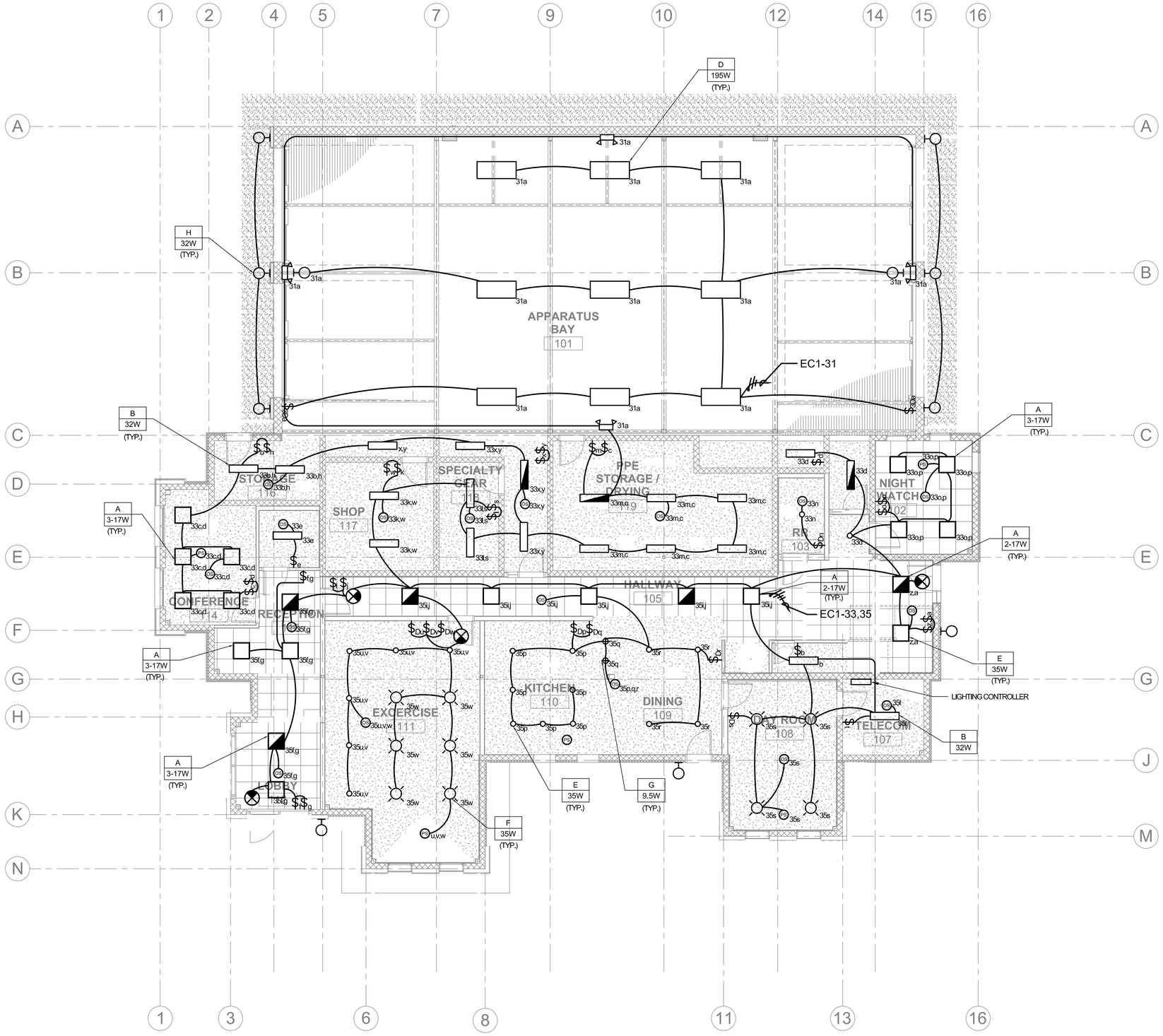
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ALAMEDA, CA 94501

No.	Description	Date

E1.2

2ND FLOOR POWER & TEL/DATA PLAN



1 1ST FLOOR LIGHTING PLAN
3/16" = 1'-0"

PLAN NORTH TRUE NORTH

4' 0' 4' 8' 12'
SCALE: 3/16"=1'-0"

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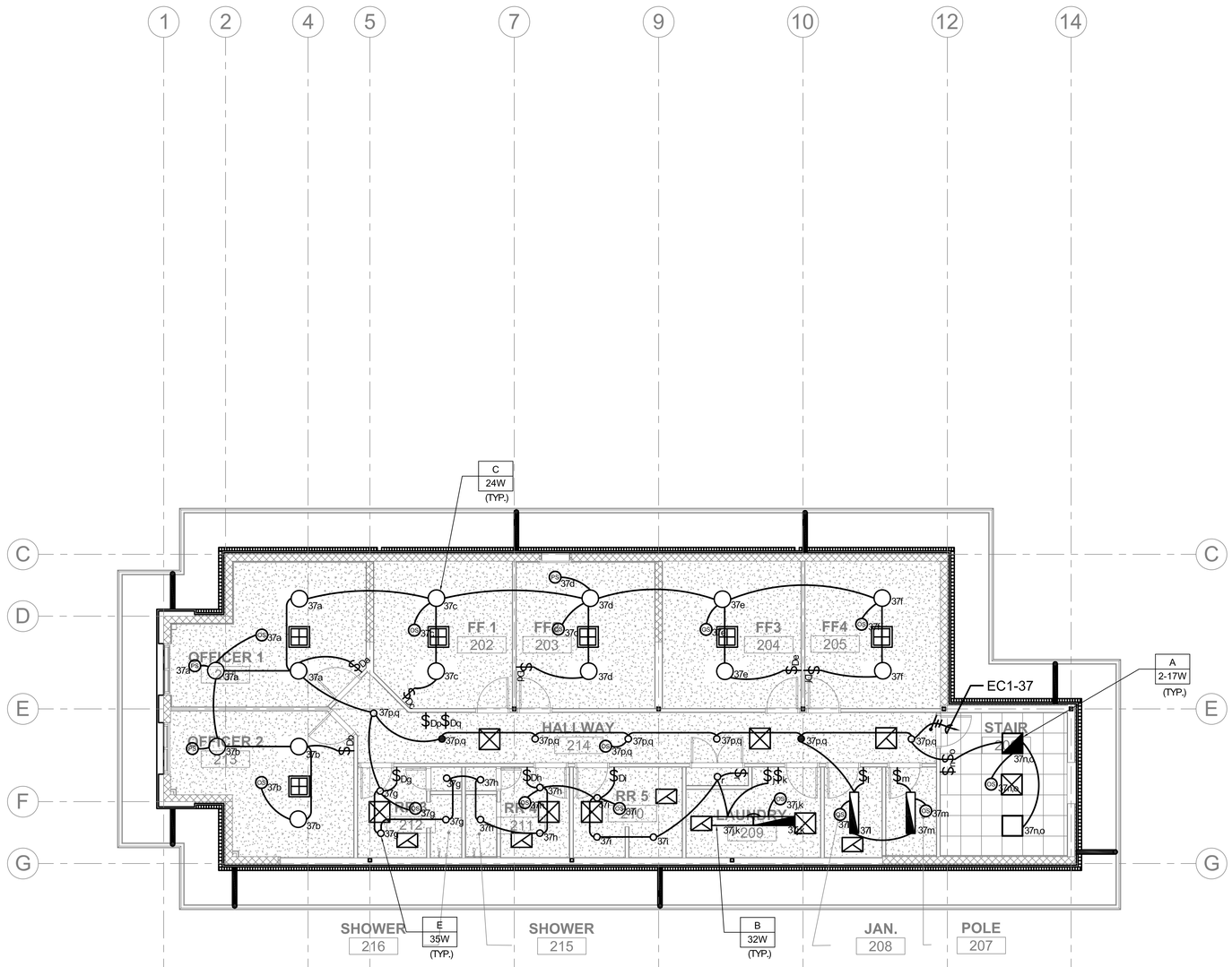
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ALAMEDA FIRE STATION 5
PROJECT NO. 023114
1625 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

E1.3

1ST FLOOR LIGHTING PLAN



PLAN NORTH

TRUE NORTH

1 2ND FLOOR LIGHTING PLAN

3/16" = 1'-0"

4' 0' 4' 8' 12'

SCALE: 3/16"=1'-0"

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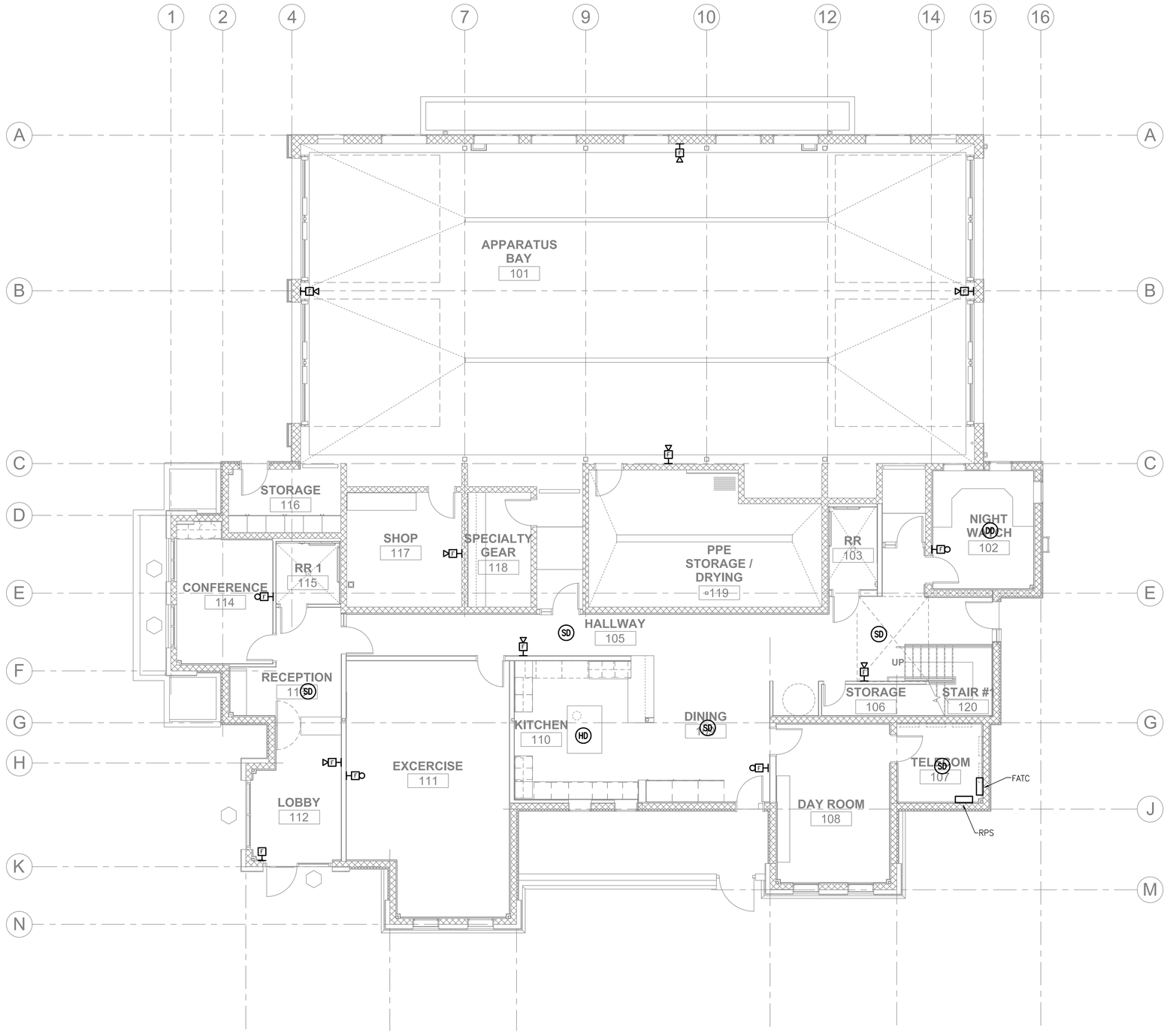
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ALAMEDA FIRE STATION 5
PROJECT NO. 023114
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ALAMEDA, CA 94501

No.	Description	Date

E1.4

2ND FLOOR LIGHTING PLAN



PLAN NORTH

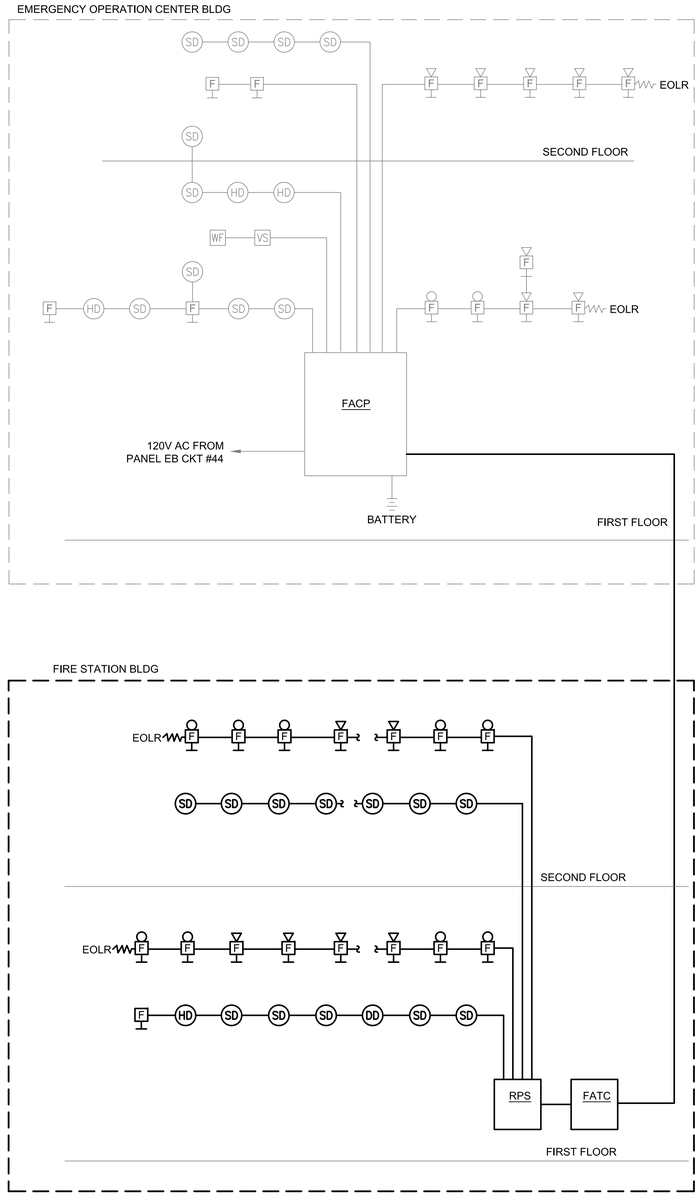
TRUE NORTH

1 1ST FLOOR FIRE ALARM PLAN

3/16" = 1'-0"

4' 0' 4' 8' 12'

SCALE: 3/16"=1'-0"



1 FIRE ALARM RISER DIAGRAM

NTS

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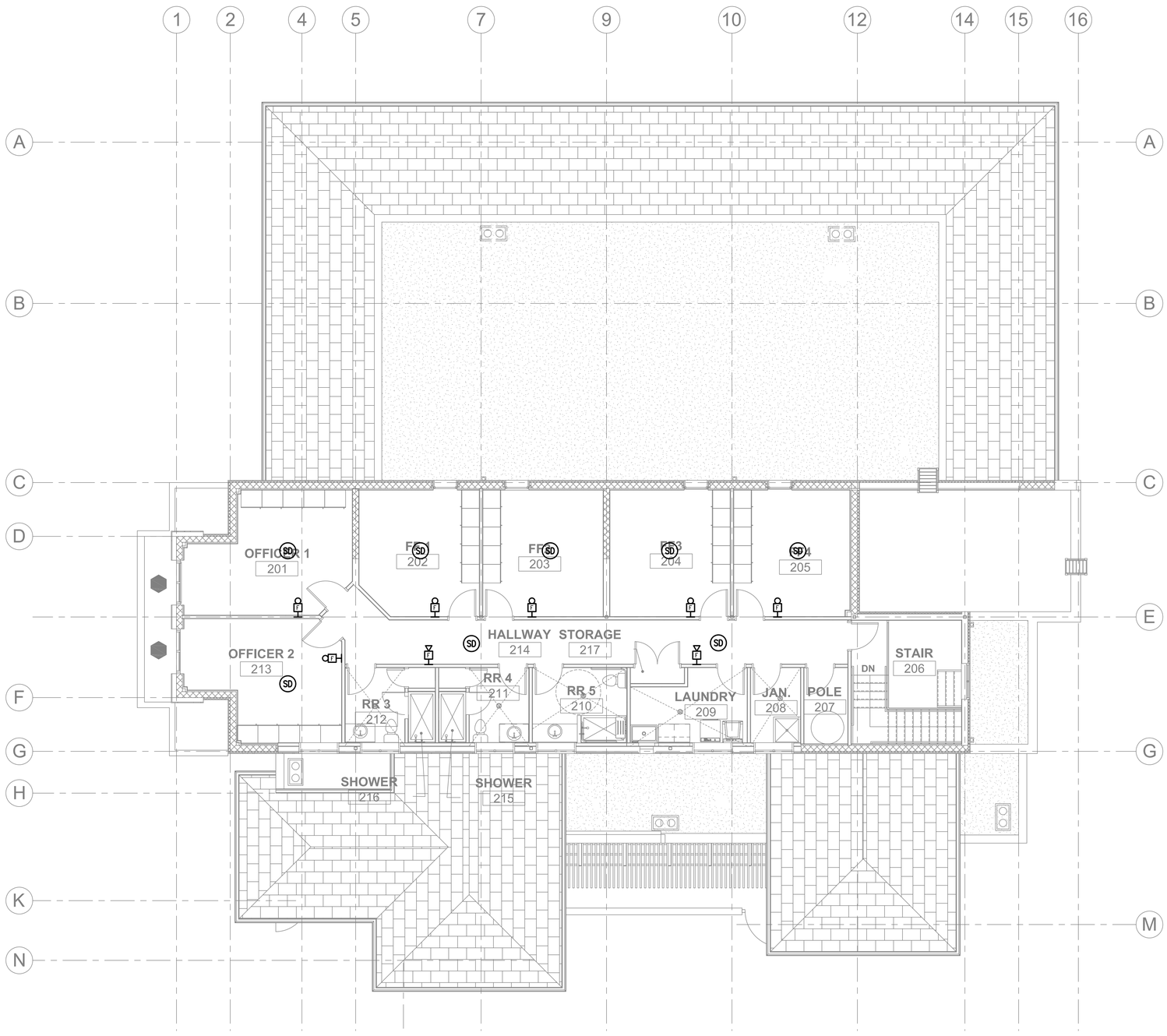
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ALAMEDA FIRE STATION 3
PROJECT NO. 02-3114
1629 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

E1.5

1ST FLOOR POWER & TEL/DATA PLAN



PLAN NORTH

TRUE NORTH

1 2ND FLOOR FIRE ALARM PLAN

3/16" = 1'-0"

4' 0' 4' 8' 12'

SCALE: 3/16"=1'-0"

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BRW PROJECT NUMBER 214073.00

CITY OF ALAMEDA
ALAMEDA FIRE STATION 3
PROJECT NO. 023114
1627 BUENA VISTA AVENUE
ALAMEDA, CA 94501

No.	Description	Date

E1.6

2ND FLOOR POWER & TEL/DATA PLAN