



COUNTY OF NEVADA
HEALTH & HUMAN SERVICES AGENCY
Housing & Community Services Division

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NEVADA COUNTY BOARD OF SUPERVISORS
Board Agenda Memo

MEETING DATE: December 5, 2023

TO: Board of Supervisors

FROM: Mike Dent – Housing & Community Services

SUBJECT: Resolution approving the bid construction documents and specifications for the Nevada County Brunswick Commons Resource Center Project, authorizing the Board Chair to sign the documents and directing the Purchasing Agent to solicit bids.

RECOMMENDATION: Adopt the Resolution.

FUNDING: Funding for this project is a combination of grant sources in Health and Human Services fund balance. These funds are within the department budgets and no general fund is required in this agreement.

BACKGROUND: In previous actions the Board approved the submission of an application and execution of a Community Development Block Grant (CDBG) contract from State Housing and Community Development Department (HCD) for various programs and projects including the planning (Architectural Design) of a homelessness resource center.

This project was originally planned as new construction next to the Brunswick Commons Apartments; however, topography of the parcel prevented this development. Due to the ongoing need for resource services as it relates to homelessness, Nevada County Housing and Community Services (HCS), with the Boards approval, was able to purchase the property at 1105 Sutton Way, Grass Valley. This property is contiguous to the Brunswick Commons Apartments, within walking distance of the Hospitality House shelter and public transit. HCS sought and received approval from HCD to amend the CDBG funding to provide Architectural Design of the new location.

Robert M. Wallis dba Wallis Design Studio was selected and approved by the Board as the most qualified applicant based on experience with similar projects to design the required facility renovations.

A completed design for a homeless resource facility with utility and parking improvements, by Wallis Designs and their consultants, has been reviewed by County staff. The plan documents have been approved by Grass Valley Community Development Department and a building permit is projected to be issued before the Board meeting on December 5, 2023.

An engineer’s estimate of construction costs has been provided by the Architect Wallis Design’s cost consultant, Sierra West Group, in August 2023. The estimated costs for this project are:

Sitework and building construction	\$1,202,562
Contingency	\$ 60,128
Entitlements/Project Management	<u>\$ 224,737</u>
Total Estimated Construction Costs	\$1,547,397

The timeline for this project is estimated to have construction complete and the facility operational by October of 2024.

The Housing and Community Division recommends the approval of this resolution.

Item Initiated by:	Rob Choate, Administrative Services Associate
Approved by:	Mike Dent, MPA, Director of Child Support, Housing and Community Services



NC - COMMONS
RESOURCE
CENTER

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Ao.0

A map of the Spring Hill, TN area. The map shows a yellow road (Spring Hill Rd) running diagonally from the bottom left towards the top right. To the left of the road, there are labels for 'B & C Ace Home & Garden Center', 'Glenbrook', 'Great Clips', 'Sierra Nevada Memorial Hospital' (marked with a red 'H' icon), and 'Peaceful Valley Farm & Garden Center'. To the right of the road, there are labels for 'Safeway' (marked with a blue shopping cart icon), 'Brumswick Rd', 'Millennium Planning & Engineering', and 'Idaho Maryland Rd'. A black arrow points from the text 'PROJECT LOCATION' to a specific spot on the road between Safeway and Millennium Planning & Engineering. A north arrow is located in the bottom right corner of the map.

T-24 ENERGY FORMS AND CALCULATIONS

A. SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. ANY EXCEPTIONS MUST BE ADDRESSED BEFORE SUBMITTING TO THE BUILDING DEPARTMENT.

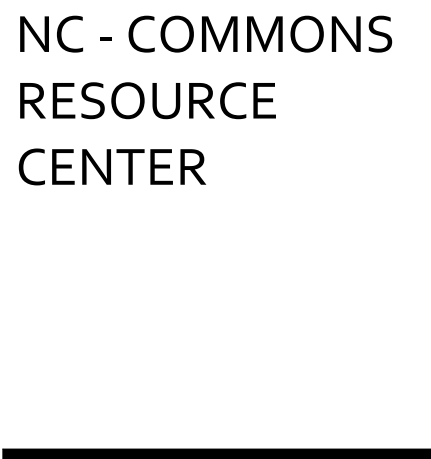
1. SOLAR DESIGN TO BE PROVIDED BY INSTALLER.

WOOD FINISH

A

CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS)			CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS)		
CONSTRUCTION PROJECTS ARE REQUIRED TO IMPLEMENT THE STORMWATER BEST MANAGEMENT PRACTICES (BMP) ON THIS PAGE, AS THEY APPLY TO YOUR PROJECT, ALL YEAR LONG.			CONSTRUCTION PROJECTS ARE REQUIRED TO IMPLEMENT THE STORMWATER BEST MANAGEMENT PRACTICES (BMP) ON THIS PAGE, AS THEY APPLY TO YOUR PROJECT, ALL YEAR LONG.		
MATERIALS & WASTE MANAGEMENT			EARTHMOVING		
NON-HAZARDOUS MATERIALS			- SCHEDULE GRADING AND EXCAVATION WORK DURING DRY WEATHER. - STABILIZE ALL DENUEDED AREAS, INSTALL AND MAINTAIN TEMPORARY EROSION CONTROLS (SUCH AS EROSION CONTROL FABRIC OR BONDED FIBER MATRIX) UNTIL VEGETATION IS ESTABLISHED. - REMOVE EXISTING VEGETATION ONLY WHEN ABSOLUTELY NECESSARY, AND SEED OR PLANT VEGETATION FOR EROSION CONTROL ON SLOPES OR WHERE CONSTRUCTION IS NOT IMMEDIATELY PLANNED. - PREVENT SEDIMENT FROM MIGRATING OFF SITE AND PROTECT STORM DRAIN INLETS, GUTTERS, DITCHES, AND DRAINAGE COURSES BY INSTALLING AND MAINTAINING APPROPRIATE BMPS, SUCH AS FIBER ROLLS, SILT FENCES, SEDIMENT BASINS, GRAVEL BAGS, BERMS, ETC. - KEEP EXCAVATED SOIL ON SITE AND TRANSFER IT TO DUMP TRUCKS ON SITE, NOT IN THE STREETS.		
HAZARDOUS MATERIALS			CONTAMINATED SOILS		
- LABEL ALL HAZARDOUS MATERIALS AND HAZARDOUS WASTES (SUCH AS PESTICIDES, PAINTS, THINNERS, SOLVENTS, FUEL, OIL, AND ANTIFREEZE) IN ACCORDANCE WITH CITY, COUNTY, STATE AND FEDERAL REGULATIONS. - STORE HAZARDOUS MATERIALS AND WASTES IN WATER TIGHT CONTAINERS, STORE IN APPROPRIATE SECONDARY CONTAINMENT, AND COVER THEM AT THE END OF EVERY WORK DAY OR DURING WET WEATHER OR WHEN RAIN IS FORECAST. - FOLLOW MANUFACTURER'S APPLICATION INSTRUCTIONS FOR HAZARDOUS MATERIALS AND BE CAREFUL NOT TO USE MORE THAN NECESSARY. DO NOT APPLY CHEMICALS OUTDOORS WHEN RAIN IS FORECAST WITHIN 24 HOURS. - ARRANGE FOR APPROPRIATE DISPOSAL OF ALL HAZARDOUS WASTES.			- IF ANY OF THE FOLLOWING CONDITIONS ARE OBSERVED, TEST FOR CONTAMINATION AND CONTACT THE REGIONAL WATER QUALITY CONTROL BOARD: - UNUSUAL SOIL CONDITIONS, DISCOLORATION, OR ODOR. - ABANDONED UNDERGROUND TANKS. - ABANDONED WELLS - BURIED BARRELS, DEBRIS, OR TRASH.		
WASTE MANAGEMENT			PAVING/ASPHALT WORK		
- COVER WASTE DISPOSAL CONTAINERS SECURELY WITH TARPS AT THE END OF EVERY WORK DAY AND DURING WET WEATHER. - CHECK WASTE DISPOSAL CONTAINERS FREQUENTLY FOR LEAKS AND TO MAKE SURE THEY ARE NOT OVER FILLED. NEVER HOSE DOWN A DUMPTSTER ON THE CONSTRUCTION SITE. - CLEAN OR REPLACE PORTABLE TOILETS, AND INSPECT THEM FREQUENTLY FOR LEAKS AND SPILLS. - DISPOSE OF ALL WASTES AND DEBRIS PROPERLY. RECYCLE MATERIALS AND WASTES THAT CAN BE RECYCLED (SUCH AS ASPHALT, CONCRETE, AGGREGATE BASE MATERIALS, WOOD, GYP BOARD, PIPE, ETC.) - DISPOSE OF LIQUID RESIDUES FROM PAINTS, THINNERS, SOLVENTS, GLUES, AND CLEANING FLUIDS AS HAZARDOUS WASTE.			- AVOID PAVING AND SEAL COATING IN WET WEATHER OR WHEN RAIN IS FORECAST. TO PREVENT MATERIALS THAT HAVE NOT CURED - COVER STORM DRAIN INLETS AND MANHOLES WHEN APPLYING SEAL COAT, TACK COAT, SLURRY SEAL, FOG SEAL, ETC. - COLLECT AND RECYCLE OR APPROPRIATELY DISPOSE OF EXCESS ABRASIVE GRAVEL OR SAND. DO NOT SWEEP OR WASH IT INTO GUTTERS. - DO NOT USE WATER TO WASH DOWN FRESH ASPHALT CONCRETE PAVEMENT.		
CONSTRUCTION ENTRANCES AND PERIMETER			SAWCUTTING & ASPHALT/CONCRETE REMOVAL		
- ESTABLISH AND MAINTAIN EFFECTIVE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM SITE AND TRACKING OFF SITE. - SWEEP OR VACUUM ANY STREET TRACKING IMMEDIATELY AND SECURE SEDIMENT SOURCE TO PREVENT FURTHER TRACKING. NEVER HOSE DOWN STREETS TO CLEAN UP TRACKING.			- PROTECT NEARBY STORM DRAIN INLETS WHEN SAW CUTTING. USE FILTER FABRIC, CATCH BASIN INLET FILTERS, OR GRAVEL BAGS TO KEEP SLURRY OUT OF THE STORM DRAIN SYSTEM. - SHOVEL, ABSORB, OR VACUUM SAW-CUT SLURRY AND DISPOSE OF ALL WASTE AS SOON AS YOU ARE FINISHED IN ONE LOCATION OR AT THE END OF EACH WORK DAY (WHICHEVER IS SOONER). - IF SAWCUT SLURRY ENTERS A CATCH BASIN, CLEAN IT UP IMMEDIATELY.		
EQUIPMENT MANAGEMENT & SPILL CONTROL			CONCRETE, GROUT & MORTAR APPLICATION		
MAINTENANCE AND PARKING			- STORE CONCRETE, GROUT, AND MORTAR AWAY FROM STORM DRAINS OR WATERWAYS, AND ON PALLETS UNDER COVER TO PROTECT THEM FROM RAIN, RUNOFF, AND WIND. - WASH OUT CONCRETE EQUIPMENT/TRUCKS OFFSITE OR IN A DESIGNATED WASHOUT AREA, WHERE THE WATER WILL FLOW INTO A TEMPORARY WASTE PIT, AND IN A MANNER THAT WILL PREVENT LEACHING INTO THE UNDERLYING SOIL OR ONTO SURROUNDING AREAS. LET CONCRETE HARDEN AND DISPOSE OF AS GARBAGE. - WHEN WASHING EXPOSED AGGREGATE, PREVENT WASHWATER FROM ENTERING STORM DRAINS. BLOCK ANY INLETS AND VACUUM GUTTERS, HOSE WASHWATER ONTO DIRT AREAS, OR DRAIN ONTO A BERMED SURFACE TO BE PUMPED AND DISPOSED OF PROPERLY.		
SPILL PREVENTION AND CONTROL			PAINT CLEAN-UP & REMOVAL		
- DESIGNATE AN AREA, FITTED WITH APPROPRIATE BMPS, FOR VEHICLE AND EQUIPMENT PARKING AND STORAGE. - PERFORM MAJOR MAINTENANCE, REPAIR JOBS, AND VEHICLE AND EQUIPMENT WASHING OFF SITE. - IF REFUELING OR VEHICLE MAINTENANCE MUST BE DONE ONSITE, WORK IN A BERMED AREA AWAY FROM STORM DRAINS AND OVER A DRIP PAN OR DROP CLOTHS BIG ENOUGH TO COLLECT FLUIDS. RECYCLE OR DISPOSE OF FLUIDS AS HAZARDOUS WASTE. - IF VEHICLE OR EQUIPMENT CLEANING MUST BE DONE ONSITE, CLEAN WITH WATER ONLY IN A BERMED AREA THAT WILL NOT ALLOW RINSE WATER TO RUN INTO GUTTERS, STREETS, STORM DRAINS, OR SURFACE WATERS. - DO NOT CLEAN VEHICLE OR EQUIPMENT ONSITE USING SOAPS, SOLVENTS, DEGREASERS, OR STEAM CLEANING EQUIPMENT.			- NEVER CLEAN BRUSHES OR RINSE PAINT CONTAINERS INTO A STREET, GUTTER, STORM DRAIN, OR STREAM. - FOR WATER-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE, AND RINSE INTO A DRAIN THAT GOES TO THE SANITARY SEWER. NEVER POUR PAINT DOWN A STORM DRAIN. - FOR OIL-BASED PAINTS, PAINT OUT BRUSHES TO THE EXTENT POSSIBLE AND CLEAN WITH THINNER OR SOLVENT IN A PROPER CONTAINER. FILTER AND REUSE THINNERS AND SOLVENTS. DISPOSE OF EXCESS LIQUIDS AS HAZARDOUS WASTE. - PAINT CHIPS AND DUST FROM NON-HAZARDOUS DRY STRIPPING AND SAND BLASTING MAY BE SWEEP UP OR COLLECTED IN PLASTIC DROP CLOTHS AND DISPOSED OF AS TRASH. - CHEMICAL PAINT STRIPPING RESIDUE AND CHIPS AND DUST FROM MARINE PAINTS OR PAINTS CONTAINING LEAD, MERCURY, OR TRIBUTYL TIN MUST BE DISPOSED OF AS HAZARDOUS WASTE. LEAD BASED PAINT REMOVAL REQUIRES A STATE-CERTIFIED CONTRACTOR.		
LANDSCAPING			DEWATERING		
- PROTECT STOCKPILED LANDSCAPING MATERIALS FROM WIND AND RAIN BY STORING THEM UNDER TARPS ALL YEAR-ROUND. - STACK BAGGED MATERIAL ON PALLETS AND UNDER COVER. - DISCONTINUE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECAST RAIN EVENT OR DURING WET WEATHER.			- DISCHARGES OF GROUNDWATER OR CAPTURED RUNOFF FROM DEWATERING OPERATIONS MUST BE PROPERLY MANAGED AND DISPOSED. WHEN POSSIBLE SEND DEWATERING DISCHARGE TO LANDSCAPED AREA OR SANITARY SEWER. IF DISCHARGING TO THE SANITARY SEWER CALL YOUR LOCAL WASTEWATER TREATMENT PLANT. - DIVERT RUN-ON WATER FROM OFFSITE AWAY FROM ALL DISTURBED AREAS. WHEN DEWATERING, NOTIFY AND OBTAIN APPROVAL FROM THE LOCAL MUNICIPALITY BEFORE DISCHARGING WATER TO A STREET GUTTER OR STORM DRAIN. FILTRATION OR DIVERSION THROUGH A BASIN, TANK, OR SEDIMENT TRAP MAY BE REQUIRED - IN AREAS OF KNOWN OR SUSPECTED CONTAMINATION, CALL YOUR LOCAL AGENCY TO DETERMINE WHETHER THE GROUND WATER MUST BE TESTED. PUMPED GROUNDWATER MAY NEED TO BE COLLECTED AND HAULED OFF-SITE FOR TREATMENT AND PROPER DISPOSAL.		
FIRE PROTECTION NOTES			CONTRACTOR RESPONSIBILITIES		
INTERIOR: - THE BUILDING SHALL BE PROVIDED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM THROUGHOUT AND THE PRE-ACTION DRY FIRE SPRINKLER SYSTEM WHERE INDICATED. SYSTEMS SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, FIRE DEPARTMENT HAVING JURISDICTION AND SPECIFICATIONS. - ALL AUTOMATIC FIRE SPRINKLER SYSTEM WORK INCLUDING THE FIRE ALARM SYSTEM IS TO BE ENGINEERED, FURNISHED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR. - FIRE SPRINKLER CONTRACTOR SHALL SUBMIT FIRE SPRINKLER DRAWINGS AND CALCULATIONS TO THE LOCAL FIRE CHIEF AND LOCAL BUILDING DEPARTMENT AS A DEFERRED SUBMITTAL FOR APPROVAL AND PERMIT PRIOR TO COMMENCING THE WORK. PORTABLE FIRE EXTINGUISHERS - PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN OCCUPANCIES AND LOCATIONS AS INDICATED ON DRAWINGS, AS HEREIN INDICATED AND SET FORTH IN THE CODE AND AS REQUIRED BY THE FIRE DEPARTMENT. THE MAXIMUM TRAVEL DISTANCE TO THE FIRE EXTINGUISHER SHALL NOT EXCEED 75 FEET ALONG AN UNOBSTRUCTED PATH OF TRAVEL, CFC TABLE 906.3(1). ALL PORTABLE FIRE EXTINGUISHERS SHALL HAVE A SERVICE TAG AFFIXED TO THEM SHOWING THAT THE EXTINGUISHER HAS BEEN SERVICED BY A CALIFORNIA STATE LICENSED FIRE EXTINGUISHER CONCERN. ALL FIRE EXTINGUISHERS SHALL BE ATTACHED TO A BRACKET OR					

ABBREVIATIONS																			
ACST	ACOUSTICAL	CLR	CLEAR	EXPANSION JOINT	FOSG	FACE OF SHEATHING	HT	HEIGHT	MISC	MISCELLANEOUS	OPNG	OPENING	PROP	PROPERTY	S	SOUTH	TEMP	TEMPORARY	
AC	AIR CONDITIONER	CMU	CONCRETE MASONRY UNIT	ELEC	ELECTRIC (AL)	FPL	FIREPLACE	HEATER	MO	MASONRY OPENING	OPP	OPPOSITE	PT	PRESSURE TREATED	SCHED	SCHEDULE	THK	THICK (NESS)	
ACC	ACCESSIBLE	COL	COLUMN	ELEV	ELEVATION	FRMG	FRAMING	ID	INSIDE DIAMETER	MR	MOISTURE RESISTANT	OVHD	PVG	PAVING	SD	STORM DRAIN	THRU	THROUGH	
ADJ	ADJUSTABLE	CONC	CONCRETE	EQ	EQUAL	FT	FOOT, FEET	INSUL	INSULATION	MTL	METAL	PAT	R	RADIUS	SF	SQUARE FOOT (FEET)	TOB	TOP OF BEAM	
AFF	ABOVE FINISH FLOOR	CPT	CARPET	EQUIP	EQUIPMENT	FTG	FOOTING	INT	INTERIOR	MULL	MULLION	PBD	PCP	REFLECTED CEILING PLAN	SIM	SIMULAR	TOC	TOP OF CURB	
ALT	ALTERNATE	CSTM	CASEMENT	EST	ESTIMATE (D)	FURN	FURNITURE	L	LONG	NA	NOT APPLICABLE	PBD	PCP	PORTLAND CEMENT PLASTER	SOG	SLAB ON GRADE	TOS	TOP OF SLAB	
ALUM	ALUMINUM	CT	CERAMIC TILE	EXIST	EXISTING	GA	GAGE	LAM	LAMINATE(D)	NIC	NOT IN CONTRACT	PERF	REF	RECESSED	SPEC	SPECIFICATION	TOW	TOP OF WALL	
APPROX	APPROXIMATE	DEMO	DEMOLISH, DEMOLITION	EXP	EXPANSION	GALV	GALVANIZED, GALVANIC	LAV	LAVATORY	NO	NUMBER	PERM	REF	REFER (ENCE), REFERIGERATOR	SPKLR	SPRINKLER	TYP	TYPICAL	
BD	BOARD	DIA	DIAMETER	EXT	EXTERIOR	GB	GYPSUM BOARD	LB	POUND	NOM	NOMINAL	PERIM	REINF	REINFORCE (D) (ING)	SS	SANITARY SEWER	UNFIN	UNFINISH (ED)	
BITUM	BITUMINOUS	DIM	DIMENSION	FD	FLOOR DRAIN	GEN	GENERAL	LH	LEFT HAND	NR	NOT RATED	PERM	REQD	REQUIRED	SST	STAINLESS STEEL	UNO	UNLESS NOTED OTHERWISE	
BLDG	BUILDING	DN	DOWN	FDN	FOUNDATION	GL	GLASS	LNDSCP	LANDSCAPE	NTS	NOT TO SCALE	PERP	REV	REVISION (S), REVISED	ST	STREET	UTIL	UTILITY	
BM	BEAM	DS	DOWNSPOUT	FE	FIRE EXTINGUISHER	GLULAM	GLUED LAMINATED WOOD	MAS	MASONRY	O/	OVER	PH	RFG	ROOFING	STC	SOUND TRANSMISSION CLASS	VCT	VINYL COMPOSITION TILE	
BO	BOTTOM OF	DS	DOWNSPOUT	FIN	FINISH	GWB	GYPSUM WALL BOARD	MAX	MAXIMUM	OC	ON CENTER	PL	RH	RIGHT HAND	STD	STANDARD	VERT	VERTICAL	
CAB	CABINET	DW	DISHWASHER	FL	FLASHING	GYP	GYPSUM	MECH	MECHANICAL	OD	OUTSIDE DIAMETER	PLAM	RM	ROOM	STOR	STORAGE	VIF	VERIFY IN FIELD	
CJ	CONTROL JOINT	DWR	DRAWING	FLR	FLOOR	HDR	HEADER	MEMB	MEMBRANE	OH	OUSIDE FACE	PLWD	RO	ROUGH OPENING	STRUCT	STRUCTURE (AL)	VIN	VINYL	
CL	CENTER LINE	E	EAST	FOC	FACE OF CONCRETE	HDW	HARDWOODS	MFR	MANUFACTURE (R)	OF	OVERHANG	PRCST	ROW	RIGHT OF WAY	T&G	TONGUE AND GROOVE	W	WEST	
CLG	CEILING	EA	EACH	FOM	FACE OF MASONRY	HM	HOLLOW METAL	MIN	MINIMUM	OPH	OPPOSITE HAND	PREFAB	RT	RIGHT	TEL	TELEPHONE	W/	WITH	
				FOS	FACE OF STUDS	HORIZ	HORIZONTAL					PRELIM			TEMP	TEMPORARY			



1105 SUTTON WAY
GRASS VALLEY, CA
95945

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Proj. No.: 2022011

Date: 05/30/2023

Scale: $1'' = 1'-0''$

Drawn By: AMR

Drawing Title:

A0.1

BUILDING CODE ANALYSIS

SITE ACCESSIBILITY

AT HAZARDOUS VEHICLE LOCATIONS:	A. CONFIRM WITH CITY AGENCY HAVING JURISDICTION.
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USE AND OCCUPANCY CLASSIFICATION

(CBC CHAPTER 3) 304.1	A. OCC TYPE B SECTION 304.1 - MAIN OCCUPANCY BUSINESS GOUP B (304.1) THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR OFFICE, PROFESSIONAL OR SERVICE-TYPE TRANSACTIONS, INCLUDING STORAGE OF RECORDS AND ACCOUNTS.
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SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY

(CBC CHAPTER 4)	A. NONE
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BASIC ALLOWABLE AREA, HEIGHT & STORIES

(CBC CHAPTER 5) 503, 504, 506, 507 TABLE 504.3, 504.4, 506.2, 506.3	TYPE VB (B OCC) A. ALLOWABLE BUILDING HEIGHT = 40'-0" ACTUAL = 27'-0" B. ALLOWABLE BUILDING AREA PER STORY= 9,000 SF ACTUAL = 6,076 SF 1ST FLR ACTUAL = 2,196 SF 2ND FLR C. ALLOWABLE NUMBER OF STORIES = 2 ACTUAL = 2
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MIXED USE AND OCCUPANCY

(CBC CHAPTER 5) 508, 508.3.3	TYPE VB (B OCC) NO SEPARATION IS REQUIRED AT NON SEPARATED OCCUPANCIES.
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TYPES OF CONSTRUCTION

(CBC CHAPTER 6,7) 602, TABLE 603,TABLE 705.5, TABLE 705.8, TABLE 715.4	FIRE RESISTIVE RATING REQUIREMENTS: TYPE VB - BEARING WALLS - EXT = 0 - NON BEARING WALLS - EXT = NON-RATED (10 ≤ X ≤ 30'-0") - BEARING WALLS - INT = NON-RATED - NON BEARING WALLS - INT = NON-RATED - STRUCTURAL FRAME = NON-RATED - PARTITIONS PERMANENT = NON-RATED - FLOOR AND FLOOR/CEILING = NON-RATED - ROOFS AND ROOF/CEILING = NON-RATED - EXTERIOR DOORS & WINDOWS = NON RATED - INTERIOR DOORS & WINDOWS = 3/4 HOUR @ 1-HOUR =1/3 HOUR ELSEWHERE - EXIT PASSAGEWAYS = 1 HOUR
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FIRE ALARM AND DETECTION SYSTEMS

(CBC CHAPTER 9) 907.2.2	907.2.2 GROUP B A MANUAL FIRE ALARM SYSTEM, WHICH ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.2.5, SHALL BE INSTALLED IN GROUP B OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS: 1. THE COMBINED GROUP B OCCUPANT LOAD OF ALL FLOORS IS 500 OR MORE. 2. THE GROUP B OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE. 3. THE FIRE AREA CONTAINS AN ABULATORY FACILITY. 4. GROUP B OCCUPANCIES CONTAINING EDUCATIONAL FACILITIES, SEE SECTION 907.2.2.2
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CONCEALED SPACES

(CBC CHAPTER 7) 718.4	A. DRAFTSTOPPING IN ATTICS IN BUILDING WITH FIRE SPRINKLER THROUGHOUT.
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COMMON PATH OF EGRESS

(CBC CHAPTER 10) TABLE 1017.2	A. B OCCUPANCY WITHOUT SPRINKLER SYSTEM B. 200 FT OF TRAVEL DISTANCE ALLOWED
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EXITS

(CBC CHAPTER 10) TABLE 1006.2.1 TABLE 1006.3.2(2) 1006, 1010.2.3	A. MIN TWO EXITS REQUIRED BASED ON OCCUPANT LOAD B OCC ≤ 49 OCCUPANTS B. MAX EXIT TRAVEL DISTANCE B OCC = 75 FEET C. HARDWARE - NO SPECIAL KNOWLEDGE HARDWARE TYPE - SHALL BE INSTALLED BETWEEN 34" MIN AND 48" AFF
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ROOF CONSTRUCTION

(CBC CHAPTER 15) TABLE 1505.1	A. CONSTRUCTION TYPE VB B. "CLASS C" MIN ROOF COVERING CLASSIFICATION
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INTERIOR WALL AND CEILING FINISH MATERIAL

(CBC CHAPTER 8) TABLE 803.13	B OCC - FLAME SPREAD AND SMOKE DEVELOPED INDEX - EXITS, ENCLOSURES AND PASSAGEWAYS - CLASS 'A' - CORRIDORS - CLASS 'B' - ROOMS AND ENCLOSED SPACES - CLASS 'C'
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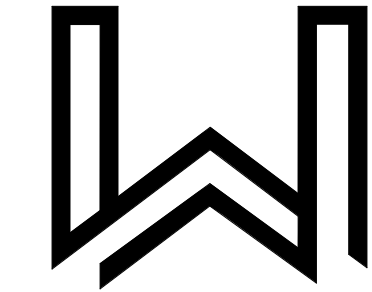
PORTABLE FIRE EXTINGUISHERS

(CFC CHAPTER 9) SECTION 906 TABLE 906.3(1)	A. EXTINGUISHER LOCATIONS B. MAXIMUM FLOOR AREA 3,000 SF (6, 076/3000 = 2 REQUIRED) (LIGHT HAZARD OCCUPANCY) C. MAXIMUM TRAVEL DISTANCE = 75 FEET
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PLUMBING FIXTURE CALCULATION

(CPC CHAPTER 4) TABLE 422.2 EXCEPTION 3 TABLE A: OCCUPANT LOAD FACTOR	B OCCUPANCY TOTAL AREA = 2, 732 CALCULATION = 2, 732/150 = 18/2 = 9 MALES AND 9 FEMALES MINIMUM PLUMBING FIXTURES FOR MALE USE: (SEE NOTE #1) 1 WATER CLOSET (1: 1-50) 1 URINAL (1:1-100) 1 LAVATORY (1: 1-75) MINIMUM PLUMBING FIXTURES FOR FEMALE USE: (SEE NOTE #1) 1 WATER CLOSET (1: 1-15) 1 LAVATORY (1: 1-50) MINIMUM DRINKING FOUNTAIN: 1 DRINKING FOUNTAIN (1 PER 150) MINIMUM SERVICE SINK: 1 SERVICE SINK (1 PER 150) SUMMARY NOTE: 1. 422.2 EXCEPTION 3 ALLOWS FOR BUSINESS OCCUPANICIES WITH AN OCCUPANT LOAD OF 50 OR LESS TO PROVIDE ACCOMODATIONS IN RESTROOM DESIGNED FOR A SINGLE OCCUPANT FOR USE BY BOTH SEXES. 2. ACCESSORY AREAS HAVE BEEN EXCLUDED FROM CALCULATIONS.
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Schedule - Plumbing Fixture Count						
Room Number	Room Name	Room Occupancy	Area	Plumbing Load Factor	Plumbing Occupancy Load	CPC Accessory Use
101	LOBBY	B	146 SF	150	1	
102	OFFICE	B	71 SF	150	1	
103	OFFICE	B	108 SF	150	1	
104	OFFICE	B	98 SF	150	1	
105	OFFICE	B	109 SF	150	1	
107	OFFICE	B	91 SF	150	1	
108	OFFICE	B	119 SF	150	1	
109	OFFICE	B	69 SF	150	1	
110	OFFICE	B	75 SF	150	1	
111	OFFICE	B	76 SF	150	1	
112	OFFICE	B	138 SF	150	1	
113	OFFICE	B	154 SF	150	2	
114	STAFF RR	B AU	52 SF	0	0	
115	STAFF BREAK ROOM	B AU	224 SF	0	0	
116	LAUNDRY	B AU	240 SF	0	0	
117	JAN.	B AU	25 SF	0	0	
118	ADA RR	B AU	49 SF	0	0	
119	ADA SHOWER	B AU	37 SF	0	0	
120	SHOWER	B AU	34 SF	0	0	
121	SHOWER	B AU	34 SF	0	0	
122	SHOWER	B AU	35 SF	0	0	
123	OFFICE	B	127 SF	0	0	
124	OFFICE	B	92 SF	0	0	
125	COMPUTER TRAINING	B	251 SF	150	2	
126	LOUNGE	B	165 SF	150	2	
127	OFFICE		68 SF	150	1	
128	RECEPTION	B	107 SF	150	1	
132	SECURITY DESK	B	29 SF		0	
134	OFFICE	B	62 SF		0	
135	OFFICE	B	82 SF		0	
136	OFFICE	B	83 SF		0	
137	CIRCULATION		1114 SF		0	
138	MENS RR	B AU	78 SF		0	
139	WOMENS RR	B AU	114 SF		0	
140	OPEN OFFICE	B	322 SF		0	
145	OPEN OFFICE		333 SF		0	
201	STORAGE	B AU	213 SF		0	
202	ATTIC STORAGE AND MECHANICAL	B AU	93 SF		0	
203	ATTIC	B AU	810 SF		0	
204	ATTIC STORAGE & MECHANICAL	B AU	1013 SF		0	
205	ATTIC STORAGE	B AU	207 SF		0	
TOTALS:			7350 SF		20	



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Proj. No.: 2022011

Date: 05/30/2023

Scale: 1" = 1'-0"

Drawn By: AMR

Drawing Title:

CODE ANALYSIS

Drawing Number:

A0.2

7/28/2023 11:29:38 AM

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[illegible]

Date: 05/30/2023

Drawn By: AMP

NON

Abstract—The purpose of this study was to determine the effect of a 10-week training program on the heart rate (HR) and heart rate reserve (HRR) of sedentary, middle-aged men. The subjects were divided into two groups: a control group and an exercise group. The exercise group performed a 10-week training program consisting of three sessions per week, each lasting 30 minutes. The control group did not exercise. The HR and HRR were measured at rest and during exercise at the beginning and end of the 10-week period. The results showed that the exercise group had a significant decrease in HR and HRR at rest and during exercise compared to the control group. The control group had no significant change in HR and HRR. The results suggest that a 10-week training program can improve the cardiovascular fitness of sedentary, middle-aged men.

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Proj. No.: 2022011

Date: 05/30/2023

Scale: $12'' = 1'-0''$

Drawn By: AMR

Drawing Title:

CAL-GREEN
NON
RESIDENTIAL

Drawing Number:

A0.5

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Proj. No.: 2022011

Date: 05/30/2023

Scale: $12'' = 1'-0''$

Drawn By: AMR

Drawing Title:

CAL-GREEN
NON
RESIDENTIAL

Drawing Number:

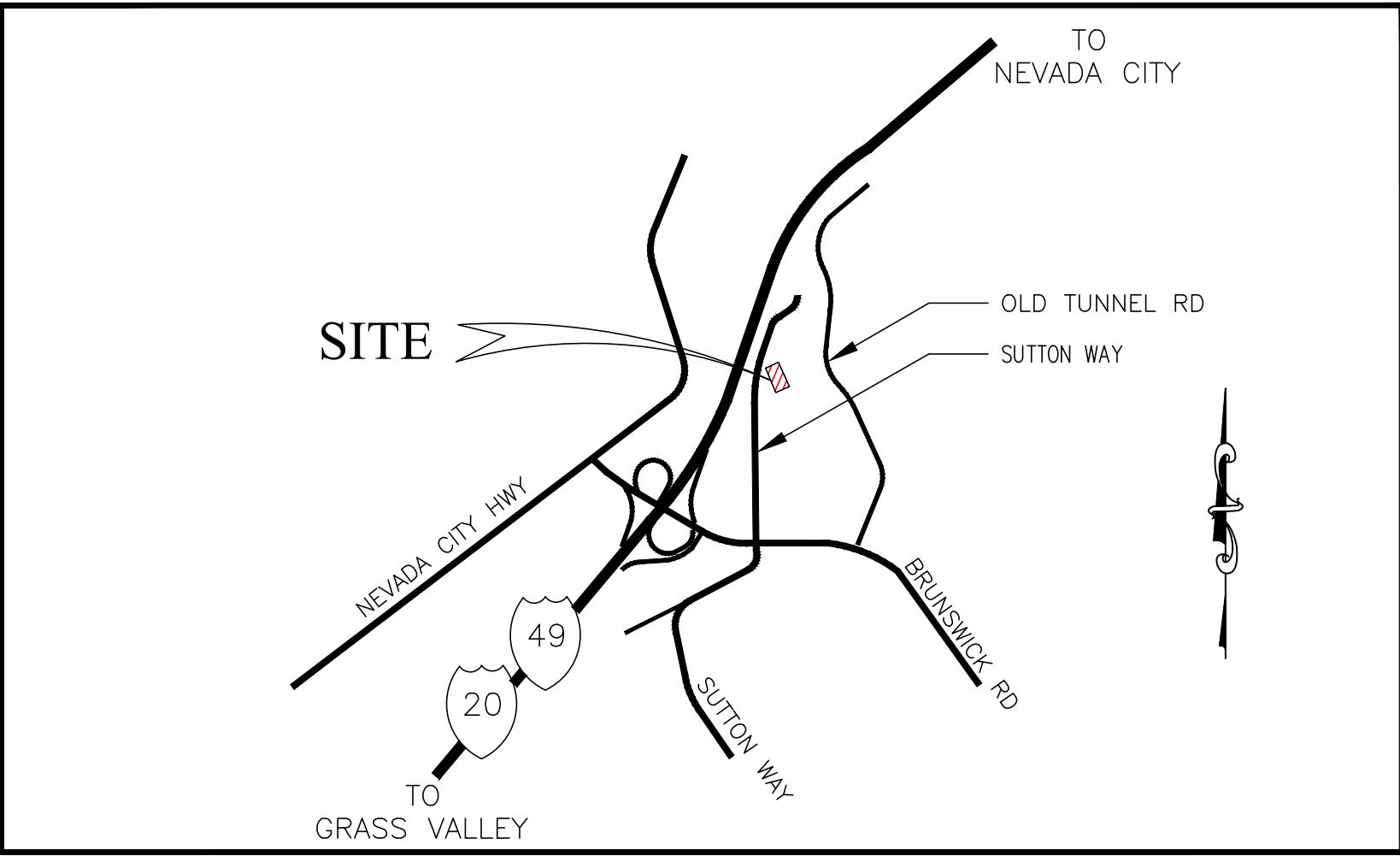
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IMPROVEMENT PLANS FOR:

SUTTON WAY WELLNESS CENTER ADA RETROFIT

1103 SUTTON WAY, GRASS VALLEY, CALIFORNIA

APN 035-400-042-000



VICINITY MAP
N.T.S.

PROJECT INFORMATION

OWNER/DEVELOPER:

COUNTY OF NEVADA
950 MAIDU AVE STE 130
NEVADA CITY, CA 95959
(530) 559-1087
CONTACT:
EMAIL: @NEVADACOUNTYCA.GOV

ARCHITECT:

WALLIS DESIGN STUDIO
415 W MAIN ST
GRASS VALLEY, CA 95945
CONTACT: ROBERT WALLIS
(530)264-7010
EMAIL: ROBERT.WALLIS@WDSA.US

CIVIL ENGINEERING:

SCO PLANNING & ENGINEERING, INC.
140 LITTON DRIVE, SUITE 240
GRASS VALLEY, CA 95645
(530) 272-5841
CONTACTS: JASON BARNUM, P.E.
EMAIL: JASON@SCOPEINC.NET

PROPERTY ADDRESS

1103 SUTTON WAY
GRASS VALLEY, CA, 95945

APN

035-400-042-000

PARKING:

EXISTING STALLS:	30
PROPOSED STALLS:	27
REQUIRED ADA STALLS:	2
PROPOSED ADA STALLS:	2

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
BC	BEGIN CURVE
BOW	BACK OF WALK
C	CONCRETE
CB	CATCH BASIN
CL	CENTERLINE
CR	CURB RETURN
DET	DETAIL
DI	DRAINAGE INLET
EG	EXISTING GROUND
EP	EDGE OF PAVEMENT
(E)	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
FR	FIBER ROLLS
G	GAS
HP	HIGH POINT
IE	INVERT ELEVATION
JT	JOINT TRENCH
LP	LOW POINT
P	PAVING
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SL	STREET LIGHT
STND.	STANDARD
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
TC	TOP OF CURB
TOW	TOP OF WALL
TYP	TYPICAL
W	WATER

SHEET INDEX

C1	COVER SHEET
C2	NOTES
C3	EXISTING TOPOGRAPHY AND DEMOLITION PLAN
C4	GRADING AND DRAINAGE PLAN
C5	DETAILS
C6	DRAINAGE / WALL DETAILS

BASIS OF BEARING

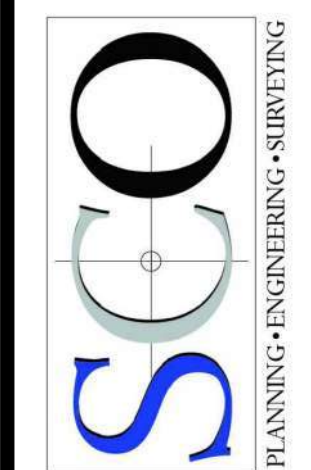
THE MERIDIAN OF THIS SURVEY IS NAD 83, CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE2 (EPOC 2010.00). BASED ON GPS TIES TO THE NATIONAL GEODETIC SURVEY (NGS) PUBLISHED: PONDEROSA & DELPHINE.

DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND ARE IN U.S. SURVEY FEET AND DECIMALS THEREOF. TO CONVERT GROUND DISTANCES TO GRID DISTANCES MULTIPLY BY CF OF .99979537.

OVERALL SITE PLAN

SCALE: 1"=20'

CIVIL IMPROVEMENT PLANS
SUTTON WAY WELLNESS CENTER
COVER SHEET
CALIFORNIA
GRASS VALLEY



GRASS VALLEY
(530) 272-5841
TRUCKEE
(530) 582-4043



C1

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS ON LANDS OF THE OWNER, NEVADA COUNTY, IN EASEMENTS OBTAINED FROM THE CITY OR PUBLIC AGENCIES. THE CONTRACTOR SHALL OBTAIN THE REQUIRED ENCROACHMENT PERMITS FROM THE APPROPRIATE PUBLIC AGENCIES. WHERE WORK IS LOCATED IN EASEMENTS, TRAVERSING LANDS OTHER THAN THOSE OF THE COUNTY, THE CONTRACTOR SHALL MAKE ALL APPROPRIATE NOTIFICATIONS AND CONFINE HIS/HER OPERATIONS WITHIN THE EASEMENT BOUNDARIES.
2. THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES. HOWEVER, THE DESIGN ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CALL U.S.A. UNDERGROUND SERVICE ALERT AT 811, OR 1-800-227-2600 AND HAVE UTILITIES MARKED AT LEAST 72 HOURS BEFORE BEGINNING WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE DESIGN ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF IMPROVEMENTS. IF SO DIRECTED BY THE DESIGN ENGINEER, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY UNTIL REMEDIAL ACTION CAN BE TAKEN. ANY COST RESULTING FROM THE CONTRACTORS FAILURE TO REPORT FAILURE TO STOP WORK AS DIRECTED, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS, IF REVISIONS ARE NECESSARY BECAUSE OF THE LOCATION OF EXISTING UTILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING PUBLIC AND PRIVATE IMPROVEMENTS. ANY DAMAGED IMPROVEMENTS SHALL BE REPLACED BY THE CONTRACTOR TO EQUAL OR BETTER THAN PRE-PROJECT CONDITIONS INCLUDING, BUT NOT LIMITED TO, ROADWAYS, DRAINAGE STRUCTURES, DRIVEWAYS, AND UTILITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS AND REGULATIONS OF ANY JURISDICTIONAL BODY. FOR INFORMATION CONTACT THE STATE INDUSTRIAL SAFETY DEPT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTS AND MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. PRIOR TO ANY CORRECTIVE ACTION BY THE CONTRACTOR WHICH IS NECESSARY DUE TO STAKING ERRORS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER FOR VERIFICATION AND RESTAKING.
8. WHEN THE CONTRACTOR'S OPERATIONS TEMPORARILY INTERFERE WITH THE EXISTING FLOW OF SEWAGE, WATER, GAS, ELECTRICITY, TELEPHONE COMMUNICATION, OR THE OPERATION OF ANY OTHER FACILITY, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE AGENCY/UTILITY AT LEAST THREE (3) DAYS PRIOR TO THE INTERFERENCE, AND PROVIDE OR MAKE ARRANGEMENTS FOR SATISFACTORY BYPASS FACILITIES.
9. THE CONTRACTOR SHALL REQUEST PERMISSION TO INTERFERE WITH SAID UTILITIES BY APPLYING TO THE RELATED UTILITY AND SHALL COMPLY WITH THEIR RECOMMENDATIONS AND ORDINANCES IN EACH CASE. SAID BYPASS FACILITIES SHALL BE SO CONSTRUCTED AS TO PROVIDE A NON-INTERRUPTIVE SERVICE OF SAID UTILITY.
10. IF BYPASS FACILITIES ARE NOT FEASIBLE OR REASONABLE, AS DETERMINED BY THE ENGINEER, THE RESIDENTS AND/OR OWNERS OF ALL PROPERTIES AFFECTED BY A TEMPORARY INTERRUPTION (LESS THAN 8 HOURS) MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE INTERRUPTION BY THE CONTRACTOR.
11. ALL INSTALLATIONS SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS AND GUIDELINES UNLESS OTHERWISE NOTED ON THE PLANS. MANUFACTURERS INSTALLATION GUIDELINES SHALL BE ON CONSTRUCTION SITE AT ALL TIMES.
12. DURING THE PROGRESS OF THE WORK, THE CONTRACTOR SHALL KEEP THE ENTIRE JOB SITE IN A CLEAN AND ORDERLY CONDITION. EXCESS UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE JOB SITE. SPILLAGE RESULTING FROM CONTRACTOR'S ACTIVITY SHALL BE REMOVED BY THE CONTRACTOR. ALL GUTTERS AND ROADSIDE DITCHES SHALL BE KEPT FREE AND CLEAR FROM OBSTRUCTIONS. ANY DEVIATION FROM THE ABOVE PRACTICE SHALL HAVE PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
13. THE CONTRACTOR SHALL PROVIDE ONE COMPLETE SET OF AS-BUILT CHANGES. THE CHANGES SHALL BE PLACED ON A CLEAN SET OF BLUELINE DRAWINGS IN RED AND GIVEN TO THE DESIGN ENGINEER AT JOB COMPLETION.
14. THE CONTRACTOR SHALL AT HIS OWN EXPENSE, PROVIDE ALL PERMITS, CERTIFICATES AND LICENSES REQUIRED BY LAW.
15. WHEN TRANSPORTING ANY MATERIAL DURING CONSTRUCTION, CARE SHOULD BE TAKEN TO PREVENT MATERIAL FROM BLOWING OR SPILLING ONTO STREETS AND HIGHWAYS. EARTHEN MATERIAL, IF TRANSPORTED, SHALL BE ADEQUATELY SPRAYED WITH WATER PRIOR TO TRANSPORT ONTO PUBLIC ROADS. VEGETATIVE MATERIAL SHALL BE COVERED OR TARPED PRIOR TO TRANSPORT.
16. INERT WASTE SUCH AS CONCRETE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
17. TOXIC WASTE (PETROLEUM AND OTHER CHEMICAL PRODUCTS), IF ENCOUNTERED, SHALL BE IDENTIFIED, SEPARATED AND DELIVERED TO THE PROPER LANDFILL AREA.
18. THE CONTRACTOR SHALL CHIP OR HAUL TO AN APPROVED DUMP SITE OR LANDFILL, ALL CLEARED VEGETATION.
19. ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY FOR REGULAR STABILIZATION OF DUST EMISSIONS.
20. SHOP DRAWINGS – THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AS MAY BE NECESSARY FOR THE PROSECUTION OF THE WORK, AS REQUIRED BY THESE NOTES. THE ENGINEER SHALL PROMPTLY REVIEW ALL SHOP DRAWINGS. THE ENGINEER'S REVIEW OF ANY SHOP DRAWING SHALL NOT RELEASE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS.
21. MATERIALS, SERVICES AND FACILITIES – MATERIALS AND EQUIPMENT SHALL BE SO STORED AS TO INSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK. STORED MATERIALS AND EQUIPMENT TO BE INCORPORATED IN THE WORK SHALL BE LOCATED SO AS TO FACILITATE PROMPT INSPECTION.
22. ALL MATERIAL SHALL BE UNLOADED, STORED, LOWERED INTO THE TRENCH AND JOINED, USING SUITABLE TOOLS AND EQUIPMENT AND IN A MANNER THAT WILL PREVENT DAMAGE TO THE MATERIAL, JOINTS, COATING, OR LINING. STORAGE AND HANDLING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
23. DAMAGED MATERIAL WILL BE REJECTED. THE CONTRACTOR SHALL CLEARLY MARK THE REJECTED MATERIAL AND REMOVE IT FROM THE IMMEDIATE CONSTRUCTION AREA. WHEN APPROVED BY THE ENGINEER, DAMAGED MATERIAL MAY BE REPAIRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND USED IN THE CONSTRUCTION. REPLACEMENT OR REPAIR OF REJECTED MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT NO EXPENSE TO THE OWNER.
24. INSPECTION AND TESTING – ALL MATERIALS MAY BE INSPECTED, SAMPLED AND TESTED BY THE OWNER. THE CONTRACTOR SHALL GIVE SUFFICIENT ADVANCE NOTICE OF PLACING OF ORDER TO PERMIT TESTS TO BE COMPLETED BEFORE THE MATERIALS ARE INCORPORATED IN THE WORK AND HE SHALL AFFORD SUCH FACILITIES AS THE OWNER MAY REQUIRE FOR COLLECTING AND MAKING INSPECTIONS. ALL SAMPLES SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE OWNER. THE OWNER MAY WAIVE SAMPLING AND TESTING IF ADEQUATE INFORMATION, PROPERLY CERTIFIED, IS AVAILABLE TO INDICATE THAT MATERIALS COMPLY WITH TERMS OF THE SPECIFICATIONS.
25. THE CONTRACTOR SHALL FURNISH THE OWNER WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER OR NOT THE WORK AS PERFORMED IS IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE CONTRACT. IF THE OWNER REQUESTS IT, THE CONTRACTOR AT ANY TIME BEFORE ACCEPTANCE OF THE WORK SHALL REMOVE OR UNCOVER SUCH PORTIONS OF THE FINISHED WORK AS MAY BE DIRECTED. AFTER EXAMINATION, THE CONTRACTOR SHALL RESTORE SAID PORTIONS OF THE WORK TO THE STANDARDS REQUIRED BY THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
26. WATER AND POLLUTION – THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS PERTAINING TO WATER POLLUTION AND SOIL EROSION INCLUDING THE PAYMENT OF ANY FINES OR PENALTIES IMPOSED BY ANY GOVERNMENT AGENCY AS A RESULT OF WORK PERFORMED BY THE CONTRACTOR.
27. THE CONTRACTOR SHALL COMPLY WITH ALL AIR POLLUTION CONTROL RULES, REGULATIONS, ORDINANCES AND STATUTES WHICH APPLY TO THE WORK AREA. NEVADA COUNTY AIR POLLUTION CONTROL OFFICE CAN BE CONTACTED AT TELEPHONE 916-265-1398.
28. CONSTRUCTION SAFETY – THE CONTRACTOR SHALL FOLLOW CONSTRUCTION PROCEDURES NECESSARY TO PROVIDE A SAFE WORKING CONDITION THROUGH ALL PHASES OF THE PROJECT. SAID PROCEDURES SHALL CONFORM TO THE SAFETY ORDERS, DIVISION OF INDUSTRIAL SAFETY, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE AND ALL OTHER PROVISIONS REQUIRED BY FEDERAL, STATE AND COUNTY LAW OR ORDINANCE.
29. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR OUTLINING THE SAFETY PROCEDURES TO BE FOLLOWED BY ITS WORKMEN, ALL SUBCONTRACTORS, AND RELATED TRADES WORKING ON ITS JOBS AND EFFECTIVELY ASSURING COMPLIANCE WITH SUCH PROCEDURES. IT SHALL ALWAYS PROVIDE FOR THE SAFETY OF THE PUBLIC BOTH DAY AND NIGHT WHERE THEY ARE EXPOSED TO ITS CONSTRUCTION OPERATION.
30. PROJECT CLEANUP AND FINISHING – THE CONTRACTOR SHALL REMOVE FROM THE VICINITY OF THE COMPLETED WORK ALL RUBBISH, UNUSED MATERIAL, FORMS, CONSTRUCTION STAKES, ETC. BELONGING TO HIM OR USED UNDER HIS DIRECTION DURING CONSTRUCTION. THE WORK SHALL BE LEFT IN A NEAT AND PRESENTABLE MANNER AT ALL TIMES INSOFAR AS CONSTRUCTION CONDITIONS PERMIT. AS PORTIONS OF THE WORK ARE COMPLETED, THE CONTRACTOR SHALL CLEAN THE INDIVIDUAL SITES.

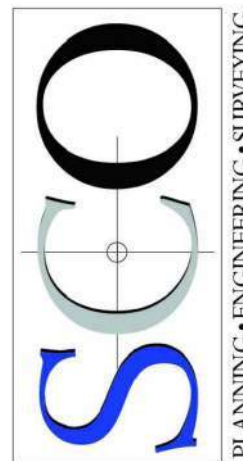
31. TOUCHUP AND REPAIR – THE CONTRACTOR SHALL TOUCHUP OR REPAIR ALL FINISHED SURFACES ON STRUCTURES, EQUIPMENT, FIXTURES, OR WHATEVER, THAT HAVE BEEN DAMAGED PRIOR TO FINAL ACCEPTANCE. SURFACE ON WHICH SUCH TOUCHUP OR REPAIR CANNOT BE SUCCESSFULLY ACCOMPLISHED SHALL BE COMPLETELY REFINISHED OR IN THE CASE OF HARDWARE AND SIMILAR SMALL ITEMS, THE ITEMS SHALL BE REPLACED.
32. CEMENT MATERIALS – PORTLAND CEMENT SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR TYPE "II" PORTLAND CEMENT OF THE AMERICAN SOCIETY FOR TESTING MATERIALS. ALL CEMENT SHALL BE OF THE SAME BRAND.
33. UNLESS OTHERWISE SPECIFIED HEREIN, CEMENT GROUT OR MORTAR SHALL BE COMPOSED OF ONE PART CEMENT TO TWO PARTS FINE AGGREGATE MIXED WITH WATER IN A MECHANICAL BATCH MIXER TO PRODUCE A PLASTIC WORKABLE MIXTURE.
34. STEEL REINFORCEMENT – THE CONTRACTOR SHALL FURNISH AND PLACE ALL STEEL REINFORCEMENT OF THE SIZES AND SHAPES AS SHOWN ON THE PLANS OR SPECIFIED HEREIN. MATERIAL AND PLACEMENT SHALL CONFORM TO REQUIREMENTS OF SECTION 52 OF STANDARD SPECIFICATIONS. STEEL SHALL BE A.S.T.M. A615, GRADE 40 UNLESS CALLED OUT OTHERWISE ON THE DRAWINGS.
35. FORM AND FORMWORK – THE FORMS SHALL BE SMOOTH, MORTARTIGHT, TRUE TO THE REQUIRED LINES AND GRADES, AND OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE FRESH CONCRETE WITHOUT SPRINGING OUT OF SHAPE OR APPRECIABLE DEFLECTION DURING THE PLANING OF THE CONCRETE. ALL EXPOSED SHARP EDGES SHALL BE CHAMFERED WITH TRIANGULAR FILETS NOT LESS THAN 0.75" BY 0.75", UNLESS OTHERWISE SHOWN ON THE PLANS. FORMS PREVIOUSLY USED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, MORTAR AND FOREIGN MATTER BEFORE BEING REUSED.
36. INSERTS – THE CONTRACTOR SHALL, BEFORE PLACING CONCRETE, MAKE PROVISION FOR ALL CORED HOLES, HANGERS, ANCHOR AND OTHER BOLTS, CONDUITS, PIPES, WATER SEALS AND OTHER INSERTS TO BE PLACED IN THE CONCRETE. HE SHALL VERIFY THE LOCATIONS AND DETAILS OF ALL SUCH WORK AND SHALL PREVENT THE DISTURBANCE OF SUCH INSERTS DURING THE PLACING OF THE CONCRETE.
37. IF ANY EXISTING FACILITIES ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR AT NO COST TO THE OWNER.
38. THAT PRIOR TO ANY WORK BEING CONDUCTED WITHIN THE STATE, COUNTY OR CITY RIGHT OF WAY, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE APPROPRIATE AGENCY.
39. ALTERNATIVES TO DIESEL GENERATOR SETS (SUCH AS GRID POWER) SHALL BE USED FOR ON-SITE ELECTRICAL NEEDS DURING CONSTRUCTION, UNLESS DEEMED INFEASIBLE BY THE AIR POLLUTION CONTROL OFFICER AND STATED IN WRITING.
40. IF GRADING OR OTHER CONSTRUCTION OPERATIONS UNEARTH ARCHEOLOGICAL OR HISTORICAL ARTIFACTS OF RESOURCES, CONSTRUCTION ACTIVITIES SHALL CEASE, THE PLANNING DEPARTMENT SHALL BE NOTIFIED OF THE EXTENT AND LOCATION OF DISCOVERED MATERIALS SO THAT THEY MAY BE RECORDED BY A QUALIFIED ARCHAEOLOGIST. DISPOSITION OF ARTIFACTS SHALL COMPLY WITH STATE AND FEDERAL LAWS.
41. PRIOR TO FINAL PREPARATION OF THE SUBGRADE AND PLACEMENT OF PAVEMENT BASE MATERIALS, ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT BEHIND THE HARDSCAPE IMPROVEMENT. PUBLIC UTILITIES, CABLE TV, SANITARY SEWERS, AND WATER LINES, SHALL BE INSTALLED IN A MANNER WHICH WILL NOT DISTURB THE STREET PAVEMENT, CURB, GUTTER AND SIDEWALK, WHEN FUTURE SERVICE CONNECTIONS OR EXTENSIONS ARE MADE.
42. IF GRADING IS TO TAKE PLACE BETWEEN OCTOBER 15 AND APRIL 15, BOTH TEMPORARY AND PERMANENT EROSION CONTROL PLANS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL ALONG WITH THE GRADING PLAN. PERMANENT EROSION CONTROL MEASURES SHALL INCLUDE TREATMENT ALL GRADED SLOPES WITHIN 60 DAYS OF COMPLETION OF GRADING. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OCTOBER 15.
- EARTHWORK AND GRADING NOTES**
1. NO CLASSIFICATION OF MATERIAL TO BE EXCAVATED IS MADE WITH THESE PLANS AND SPECIFICATIONS. EXCAVATION SHALL INCLUDE THE REMOVAL AND SUBSEQUENT HANDLING OF ALL EARTH, GRAVEL, ROCK, OR OTHER MATERIAL ENCOUNTERED REGARDLESS OF THE TYPE, CHARACTER, COMPOSITION, OR CONDITION OF THE MATERIAL IN ACCORDANCE WITH THESE NOTES AND APPLICABLE LAWS AND CODES.
2. GRADING – FINISH GRADES AND EXISTING OR NATURAL GRADES ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL DO ALL GRADING, FILLING-IN OR EXCAVATING AS REQUIRED TO COMPLETELY GRADE THE SITE TO LINES AND GRADES SHOWN, AND TO PROVIDE FOR THE INDICATED DRAINAGE. WHERE FINISH GRADE CORRESPONDS PRACTICALLY WITH EXISTING GRADE, THE GROUND SHALL BE WORKED UP AND GRADED OFF EVENLY WITH EXISTING GRADE. THE GRADING OPERATION SHALL GENERALLY CONSIST OF MOVING AND TRANSPORTING MATERIALS WITHIN THE AREA; HOWEVER, THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL FILL MATERIAL IF NECESSARY TO COMPLETE THE SITE GRADING TO THE ELEVATIONS SHOWN, OR OFFHAUL ANY EXCESS MATERIAL WHICH MAY RESULT.
- EROSION AND DUST CONTROL NOTES**
1. THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL ADEQUATE DUST CONTROLS MEASURES ARE IMPLEMENTED IN A TIMELY MANNER DURING ALL PHASES OF PROJECT DEVELOPMENT AND CONSTRUCTION.
- 1a. ALL MATERIAL EXCAVATED, STOCKPILED, OR GRADED SHALL BE SUFFICIENTLY WATERED, TREATED, OR COVERED TO PREVENT DUST FROM LEAVING THE PROPERTY BOUNDARIES AND CAUSING A PUBLIC NUISANCE OR A VIOLATION OF AN AMBIENT AIR STANDARD. WATERING SHOULD OCCUR AT LEAST TWICE DAILY, WITH COMPLETE SITE COVERAGE.
- 1b. ALL LAND CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES ON THE PROJECT SHALL BE SUSPENDED AS NECESSARY TO PREVENT EXCESSIVE WINDBLOWN DUST WHEN WINDS ARE EXPECTED TO EXCEED 20 MPH.
- 1c. ALL INACTIVE PORTIONS OF THE DEVELOPMENT SITE SHALL BE COVERED, SEEDED, OR WATERED UNTIL A SUITABLE COVER IS ESTABLISHED. ALTERNATIVELY, THE OWNER, OR CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING CITY APPROVED NON-TOXIC SOIL STABILIZERS (ACCORDING TO MANUFACTURES SPECIFICATIONS) TO ALL INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS WHICH REMAIN INACTIVE FOR 96 HOURS) IN ACCORDANCE WITH THE LOCAL GRADING ORDINANCE.
- 1d. ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY FOR REGULAR STABILIZATION OF DUST EMISSIONS.
- 1e. ALL MATERIAL TRANSPORTED OFF-SITE SHALL BE EITHER SUFFICIENTLY WATERED, OR SECURELY COVERED TO PREVENT PUBLIC NUISANCE.
- 1f. PAVED STREETS ADJACENT TO THE PROJECT SHALL BE SWEEPED OR WASHED AT THE END OF EACH DAY, OR AS REQUIRED TO REMOVE EXCESSIVE ACCUMULATIONS OF SILT AND/OR MUD WHICH MAY HAVE RESULTED FROM ACTIVITIES AT THE PROJECT SITE.
- 1g. NO BURNING OF WASTE MATERIAL OR VEGETATION SHALL TAKE PLACE ON-SITE.
2. IF PERMANENT EROSION CONTROL MEASURES ARE NOT INSTALLED BY OCTOBER 15 OF CONSTRUCTION SEASON, TEMPORARY MEASURES, SUCH AS STRAW BALE SEDIMENT BARRIERS, CHECK DAMS, SEDIMENT TRAPS SHALL BE INSTALLED IN ACCORDANCE WITH THE SWPPP. THESE MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.

CIVIL IMPROVEMENT PLANS

SUTTON WAY WELLNESS CENTER

NOTES

CALIFORNIA



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C2

DESIGNED: JB	DATE	REVISIONS	NO.
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PROJ. NO: 202306			
DATE: MAY, 2023			
DWG: SEE DAY STAMP			



DEMOLITION NOTES:

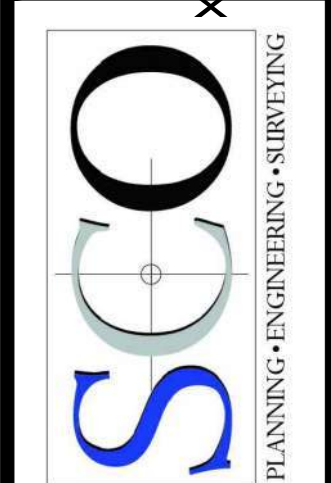
- D1 SAWCUT AND REMOVE ASPHALT SEE DETAIL 1 SHEET C5.
- D2 REMOVE CONCRETE P.C.C. FLATWORK.
- D3 REMOVED EXISTING ADA SIGNAGE.
- D4 REMOVE EXISTING CURB

LEGEND

- CONCRETE TO BE REMOVED
- ASPHALT TO BE REMOVED
- EXISTING ASPHALT
- EXISTING CONCRETE FLATWORK
- PROPERTY BOUNDARY
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING LANDSCAPE TREE
- EXISTING LIGHT POLE

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CIVIL IMPROVEMENT PLANS
SUTTON WAY WELLNESS CENTER
EXISTING TOPOGRAPHY AND DEMOLITION PLAN
GRASS VALLEY, CALIFORNIA



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C3



LEGEND

- EXISTING ASPHALT PAVEMENT
- PROPOSED ASPHALT PAVEMENT (GRIND)
- PROPOSED CONCRETE (DETAIL 7b/SHT 5)
- TRUNCATED DOMES (DETAIL 8, A88A/SHT 5)
- LANDSCAPE DRAIN (SIZE AS NOTED)
- SEWER LATERAL (SIZE AS NOTED)
- EXISTING DOWNSPOUT DRAIN
- PROPERTY BOUNDARY
- EXISTING LANDSCAPE TREE
- EXISTING LIGHT POLE

STORM DRAIN STRUCTURE TABLE

NAME:	PIPES IN:	PIPES OUT	DETAILS
DI-1		6" INV OUT =2655.50	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-2	6" INV IN =2655.37	6" INV OUT =2655.27	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-3	6" INV IN =2655.23 4" INV IN =2655.23	6" INV OUT =2655.13	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-4	6" INV IN =2654.62	6" INV OUT =2654.52	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-5	6" INV IN =2654.04 4" INV IN =2654.04	8" INV OUT =2653.94	INSTALL 18" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-7	8" INV IN =2652.60		INSTALL 24" SQUARE DRAINAGE INLET/BUBBLER W/ TRAFFIC/BICYCLE PROOF GRATE SEE DETAIL 2 SHEET 6
DI-9		4" INV OUT =2655.44	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-10	4" INV IN =2655.39	4" INV OUT =2655.29	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-11	4" INV IN =2655.07	4" INV OUT =2654.97	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-12	4" INV IN =2654.88	4" INV OUT =2654.78	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-13	4" INV IN =2654.70	4" INV OUT =2654.60	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-14	4" INV IN =2654.54	4" INV OUT =2654.44	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-15	4" INV IN =2654.41 4" INV IN =2654.41	4" INV OUT =2654.31	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-16	4" INV IN =2654.22	4" INV OUT =2654.12	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-17		4" INV OUT =2654.46	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-18	6" INV IN =2654.99	6" INV OUT =2654.89	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6
DI-19		4" INV OUT =2655.27	INSTALL 6" DIA LANDSCAPE DRAIN WITH ATRIUM GRATE SEE DETAIL 1 SHEET 6

DRAINAGE NOTES:

- LANDSCAPE DRAIN LOCATIONS AND INVERTS ARE APPROXIMATE. CONTRACTOR TO FIELD DETERMINE LANDSCAPE DRAINAGE ROUTING TO BEST AVOID EXISTING LANDSCAPING AND UTILITIES.
- LANDSCAPE DRAIN PIPING SHALL HAVE MINIMUM 0.5% SLOPE AND 6" OF COVER WHEN IN LANDSCAPE AREAS.
- LANDSCAPE DRAIN PIPING SHALL HAVE MINIMUM 1.5' OF COVER WHEN INSTALLED UNDER PAVEMENT (1' WITH SLURRY CAP, SEE DETAIL 3 SHEET C6).
- CONNECT EXISTING ROOF DOWNSPOUTS INTO LANDSCAPE DRAIN SYSTEM.
- LANDSCAPE DRAINS SHALL BE PLACED SUCH THAT SURROUNDING LANDSCAPING DRAINS INTO SYSTEM
- LANDSCAPE DRAINAGE SHALL HAVE MIN. 2' HORIZONTAL AND 1' VERTICAL CLEARANCE OVER SEWER LATERAL.

SEWER NOTES:

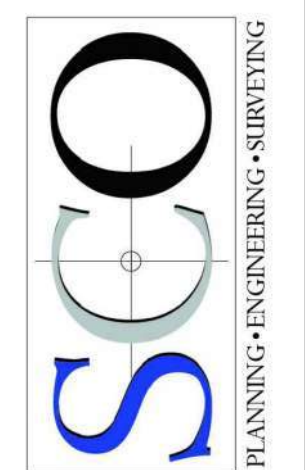
- S1 INSTALL CLEANOUT TO GRADE, TWO WAY CLEANOUT TO GRADE WITHIN 5' OF BUILDING.
- S2 INSTALL BACKFLOW ASSEMBLY SEE DETAIL 5 SHEET C5
- S3 INSTALL 4" SDR35 PVC SEWER PIPING 2% MIN SLOPE, 24" MIN COVER.
- S4 CONNECT TO EXISTING SEWER. CONTRACTOR TO POTHOLE AND VERIFY DEPTH AND LOCATION
- S5 SEE PLANS FOR BUILDING CONNECTION SPECIFICS

GRADING NOTES:

- G1 NEW ASPHALT PAVEMENT PER DETAIL 1. REPLACE ASPHALT TO MINIMUM THICKNESS (DETAIL 7a/SHT 5).
- G2 INSTALL CONCRETE FLATWORK (DETAIL 9/SHT C5).
- G3 CRACK CONTROL JOINTS TO BE PROVIDED EVERY 8' MAX. (TYPICAL)
- G4 INSTALL TRUNCATED DOMES (DETAIL 8, A88A/SHT C5).
- G5 STRIPE ADA PARKING AREA PER DETAIL 6/SHT C5.
- G6 CONSTRUCT CONCRETE CURB SHOWN PER DETAIL 4, SHEET C5, MATCH EXISTING BATTER WIDTH.
- G7 INSTALL ADA PARKING SIGNAGE/VERIFY THAT EXISTING SIGNAGE MATCHES DETAIL 2 AND 3, SHEET C5.
- G8 EXISTING LANDSCAPE AREA
- G9 INSTALL CURB RAMP PER DETAIL A88A SHT C5.
- G10 INSTALL TRASH ENCLOSURE CONCRETE SECTION PER DETAIL 10 SHTC C5
- G11 INSTALL 4" WHITE STRIPING
- G12 INSTALL REINFORCED CONCRETE FLATWORK (DETAIL 7B/SHT C5), OR MATCH EXISTING SECTION WHICHEVER IS GREATER.
- G13 INSTALL KEYSTONE BLOCK WALL TO GRADES SHOWN 4' MAX HEIGHT SEE DETAIL 4 SHT C6

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CIVIL IMPROVEMENT PLANS
SUTTON WAY WELLNESS CENTER
GRADING AND DRAINAGE PLAN
CALIFORNIA



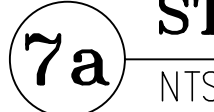
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C4

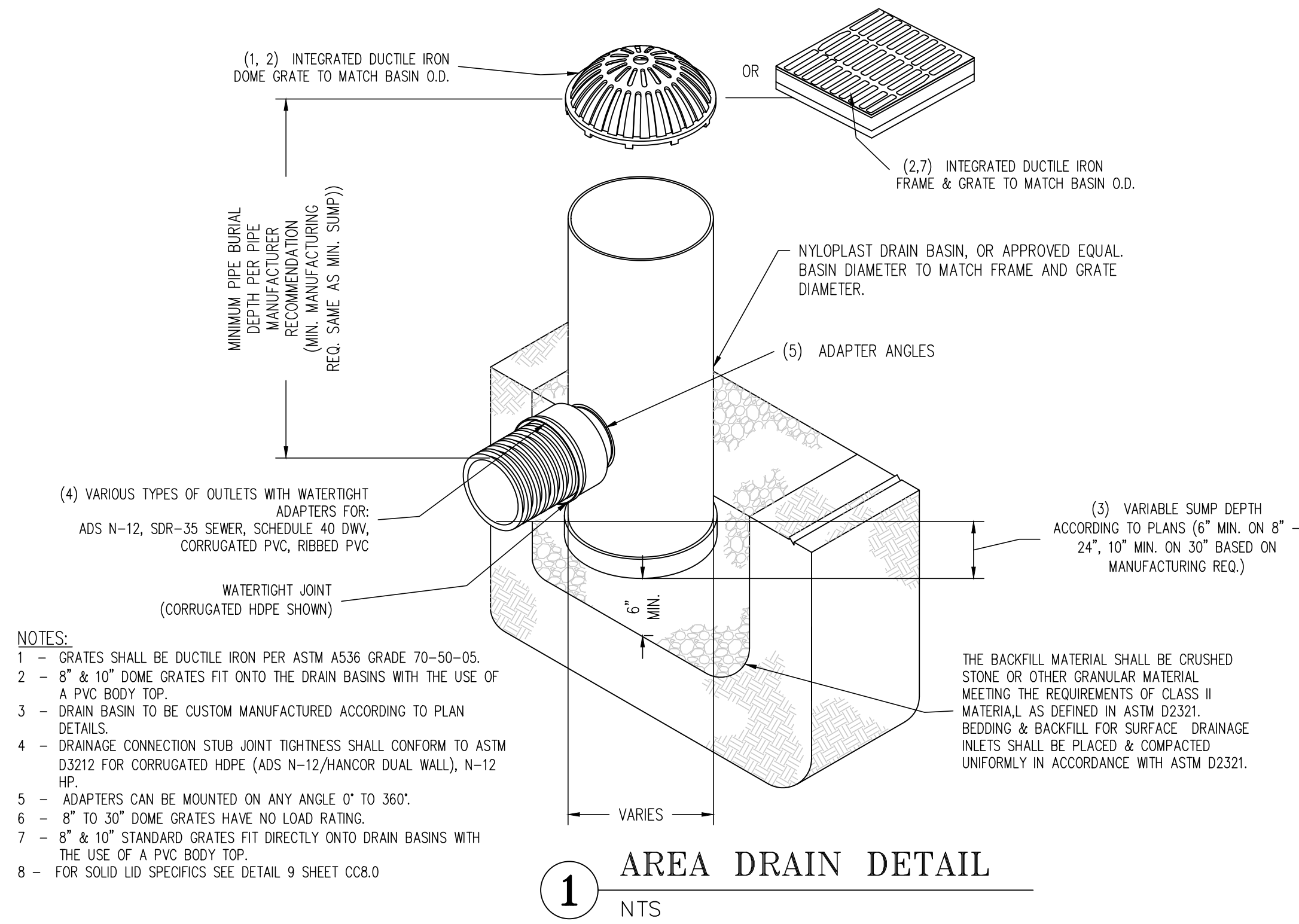


A R100B (CA) SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY.



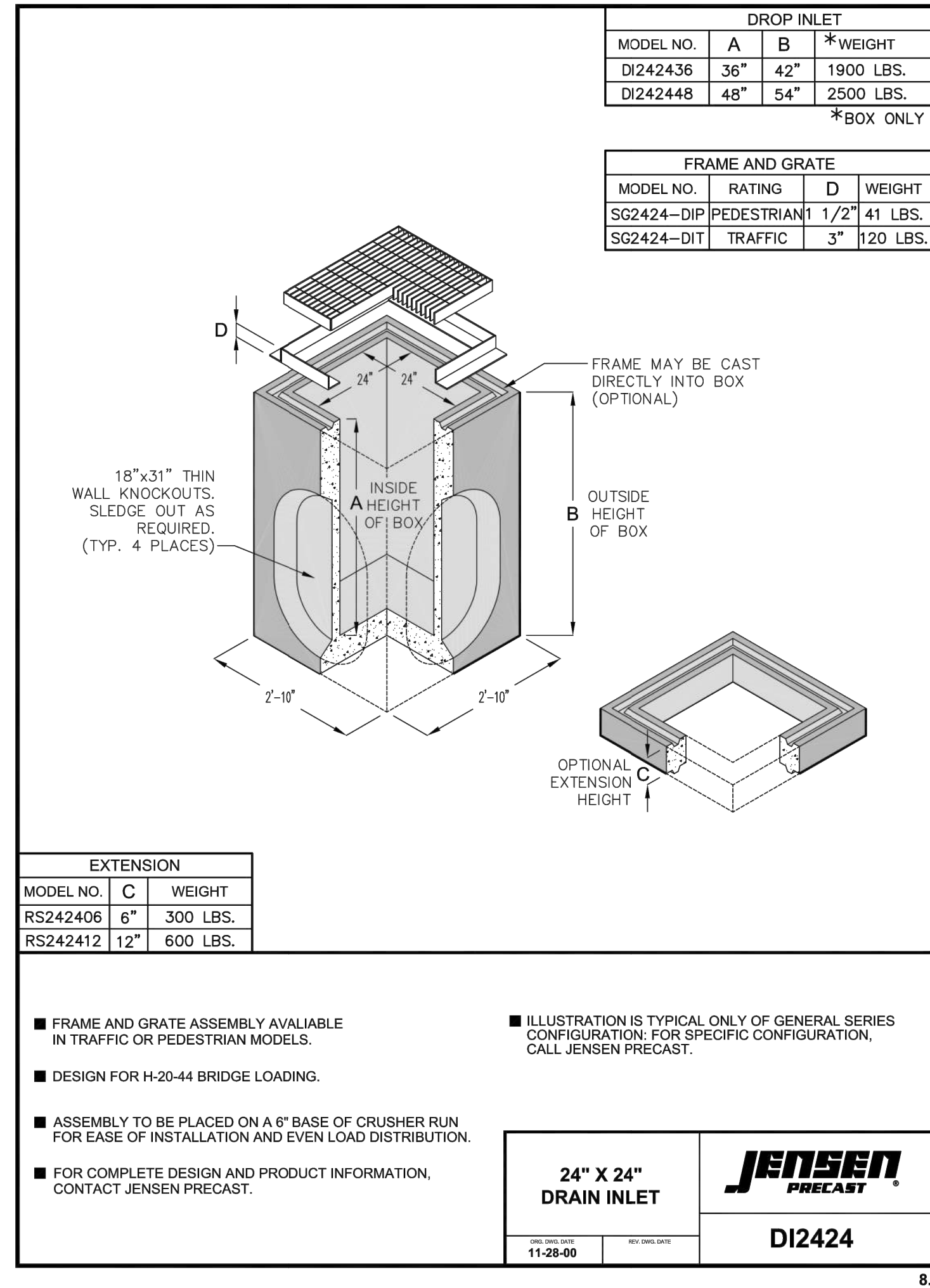
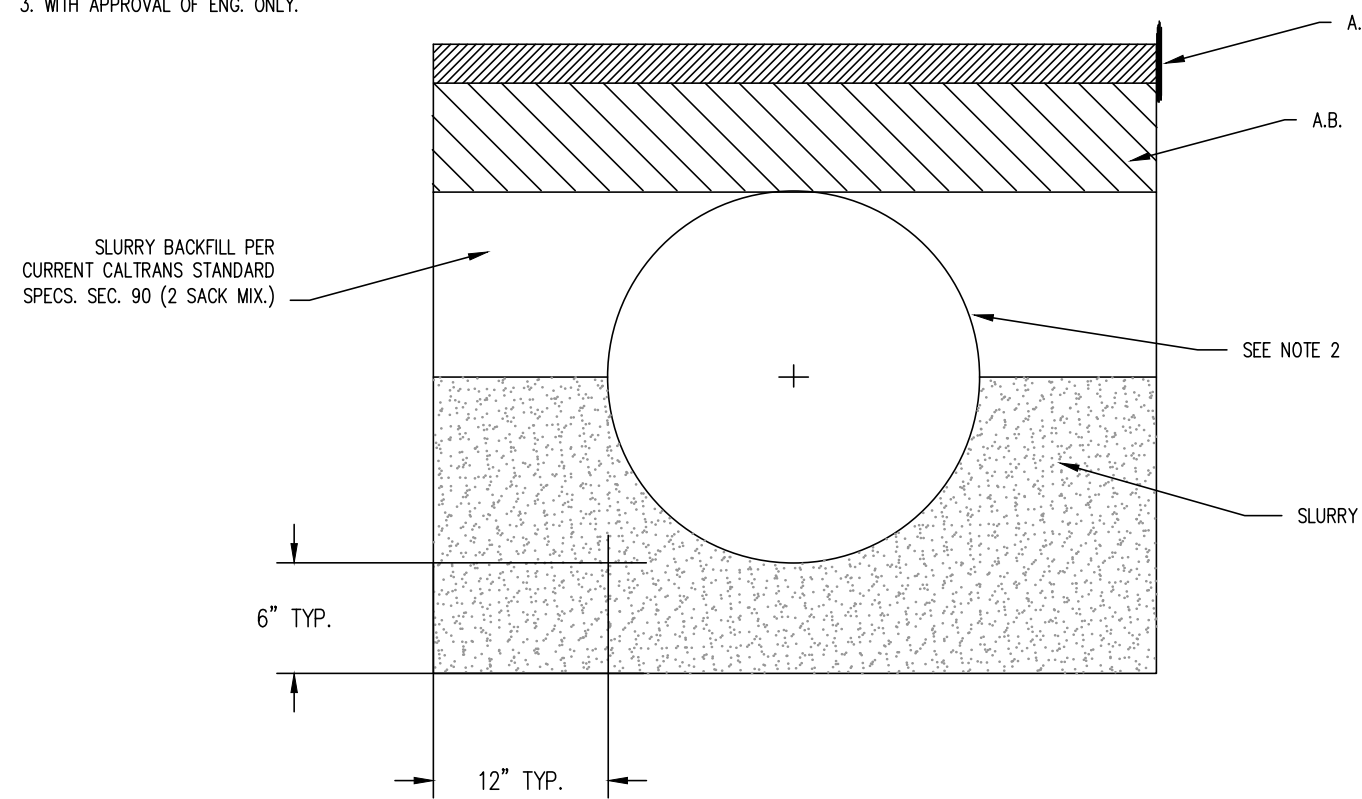
1. AGGREGATE BASE COMPACTED TO 95%, MAY BE SUBSTITUTED FOR NATIVE SUBGRADE UNDER THE SIDEWALK SECTION



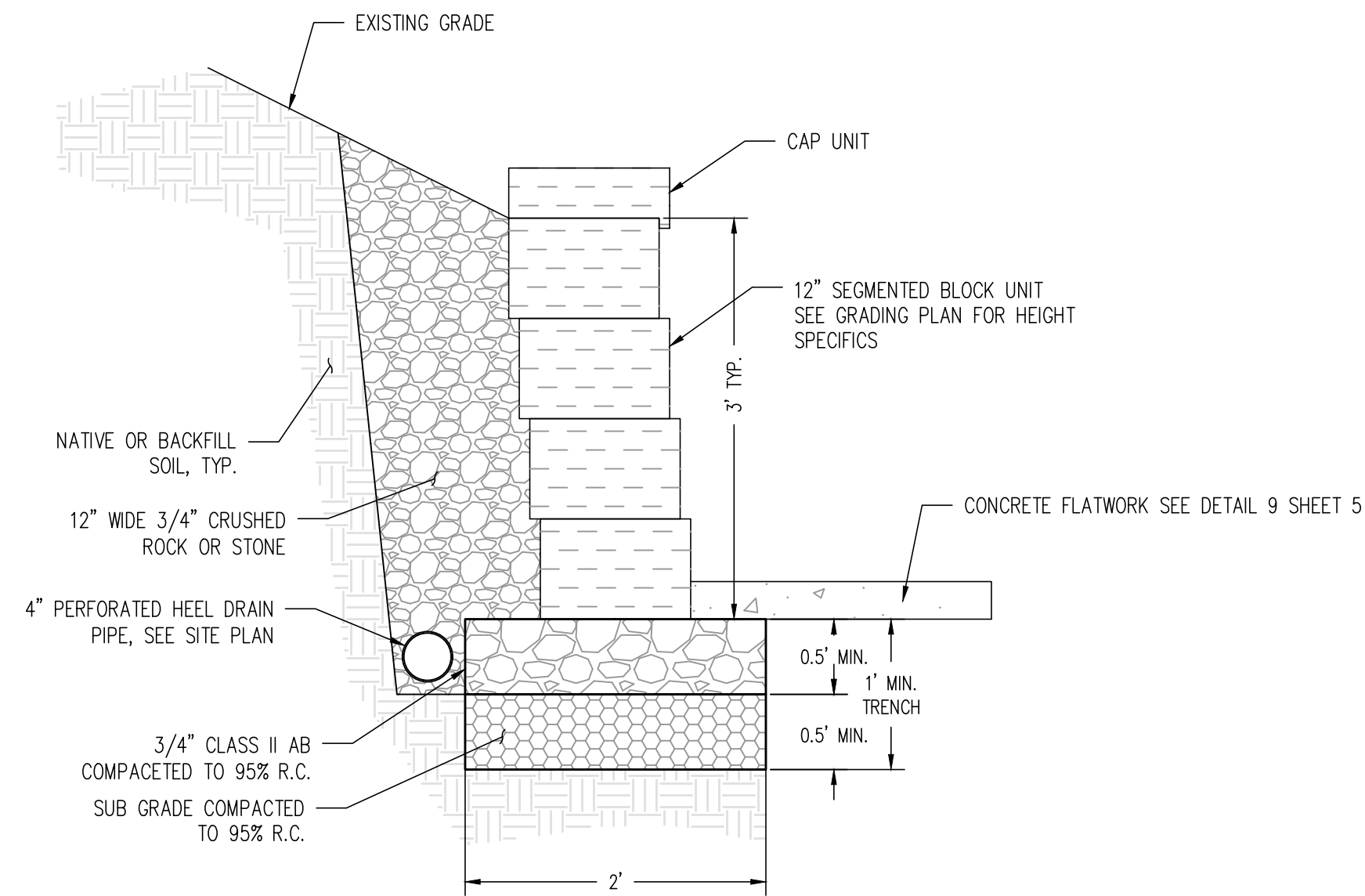


NOTES:

1. PROVIDE MIN. COVER SUCH THAT FULL DESIGN A.C. LAYER PROVIDED AND AT LEAST 0.20 FT. OF A.B. TO ALLOW FOR GROUNDWATER FLOW OVER PIPE (I.E. TO PREVENT HYDROSTATIC PRESSURE BUILD-UP UNDER PAVEMENT).
2. IF CONCRETE BONDING TO PIPE IS A CONCERN, WRAP ENTIRE PIPE WITH GEOTEXTILE FILTER FABRIC TO PREVENT BONDING.
3. WITH APPROVAL OF ENG. ONLY.



2 24"X24" DRAINAGE INLET
NTS



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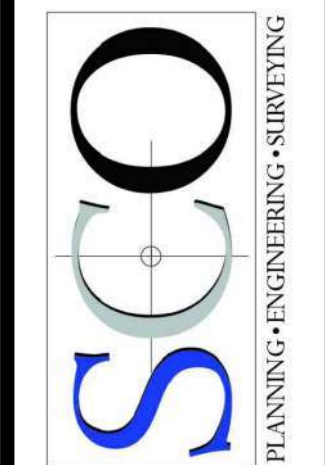
CIVIL IMPROVEMENT PLANS

SUTTON WAY WELLNESS CENTER

DRAINAGE / WALL DETAILS

GRASS VALLEY

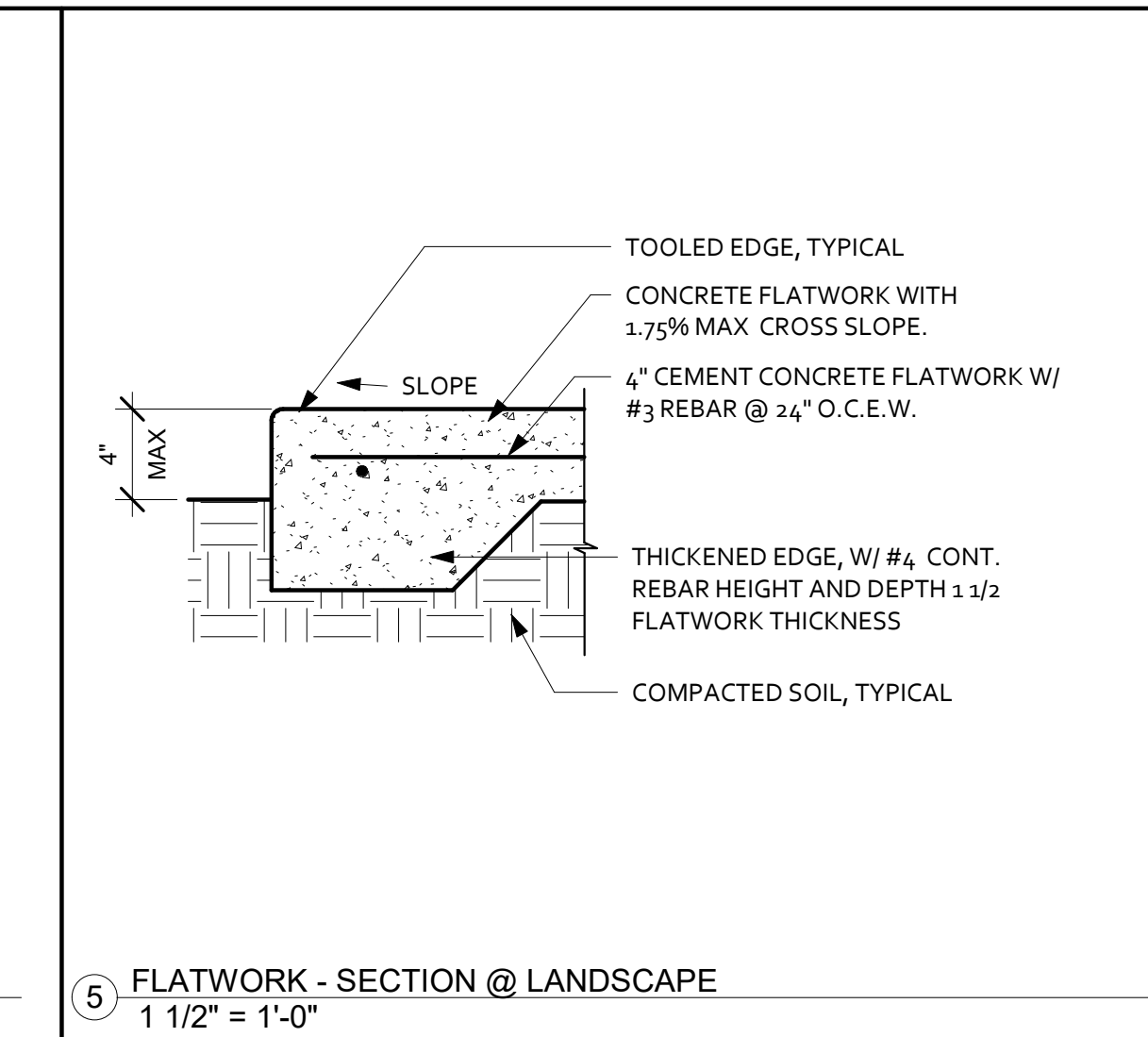
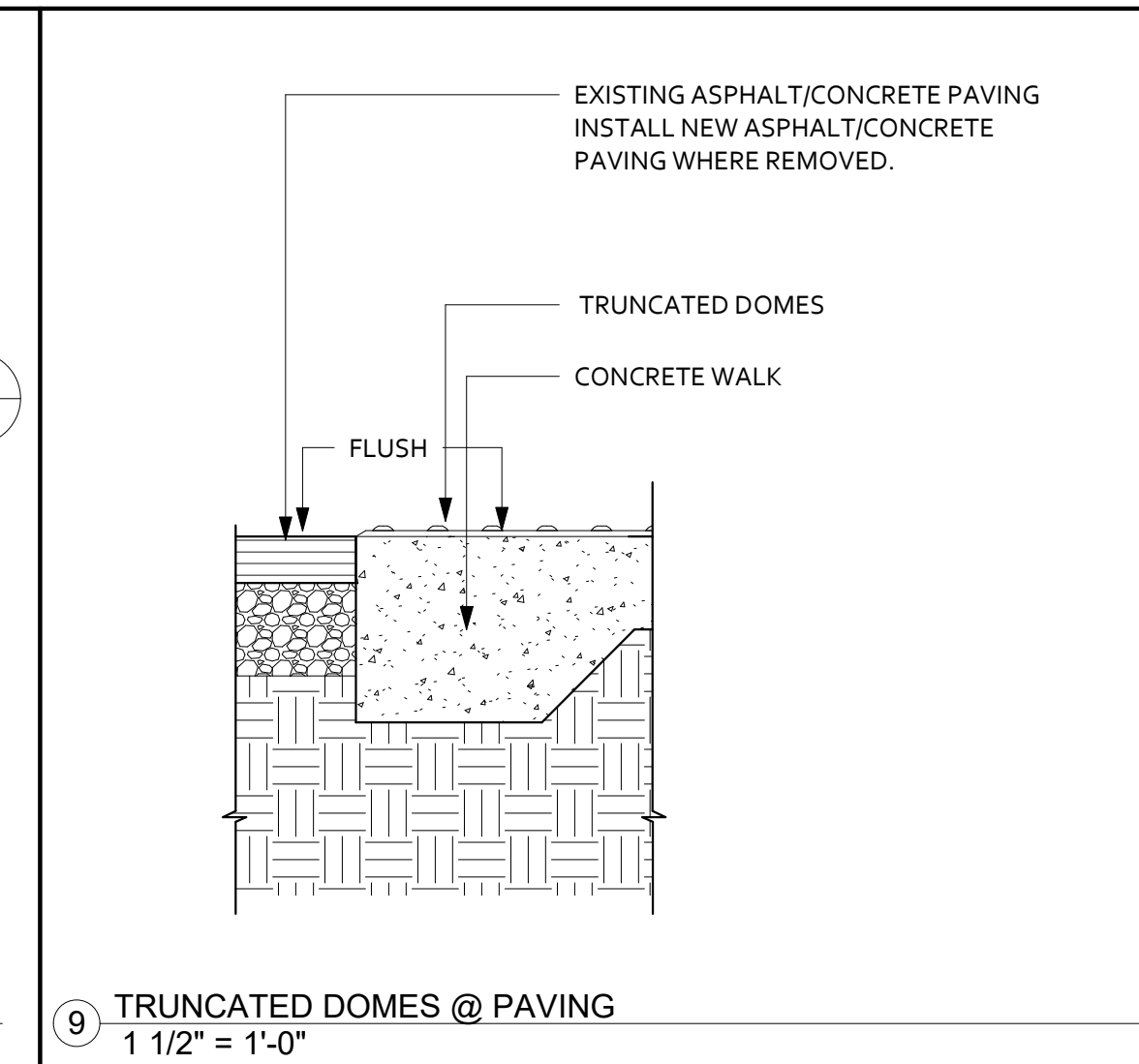
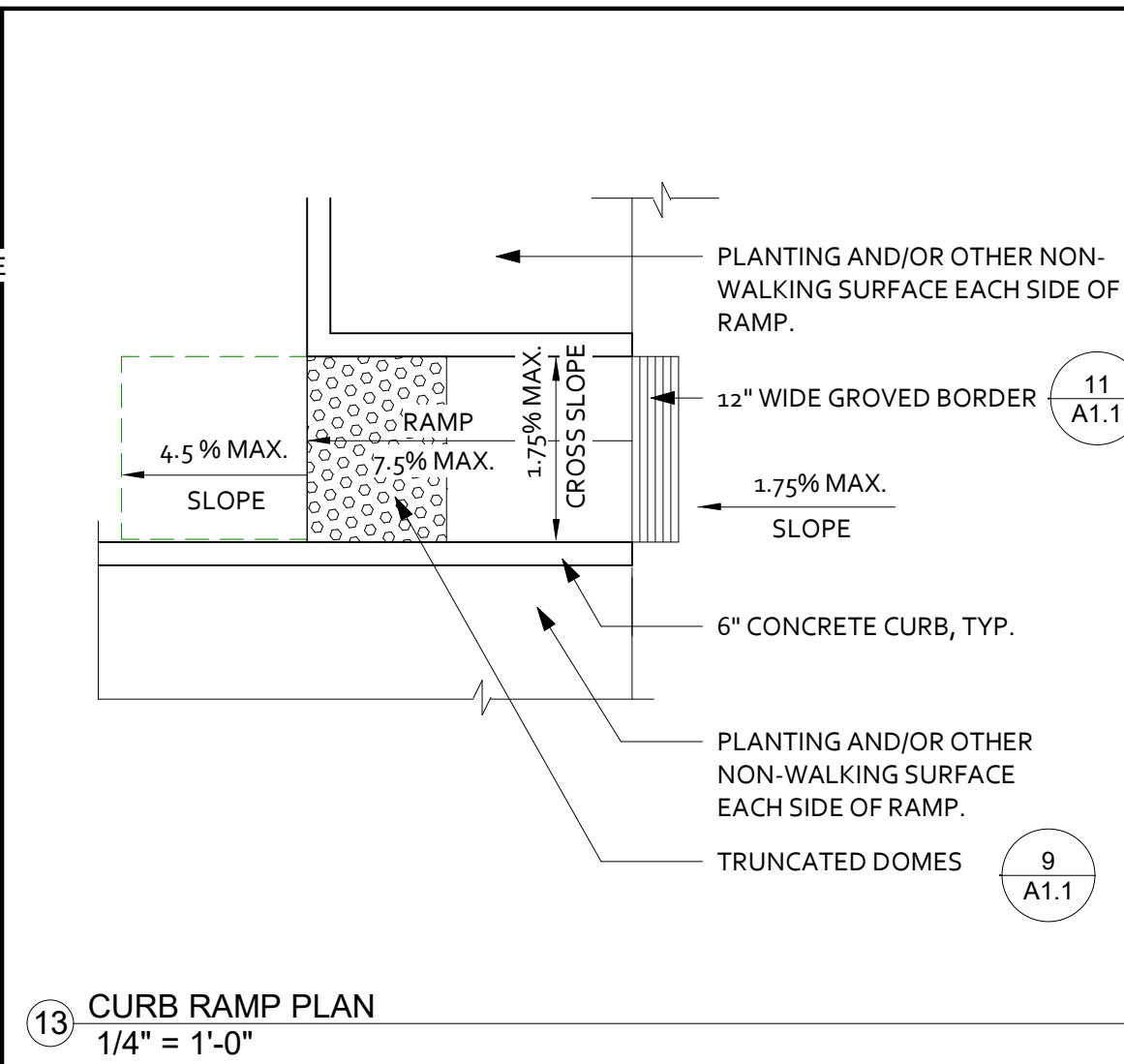
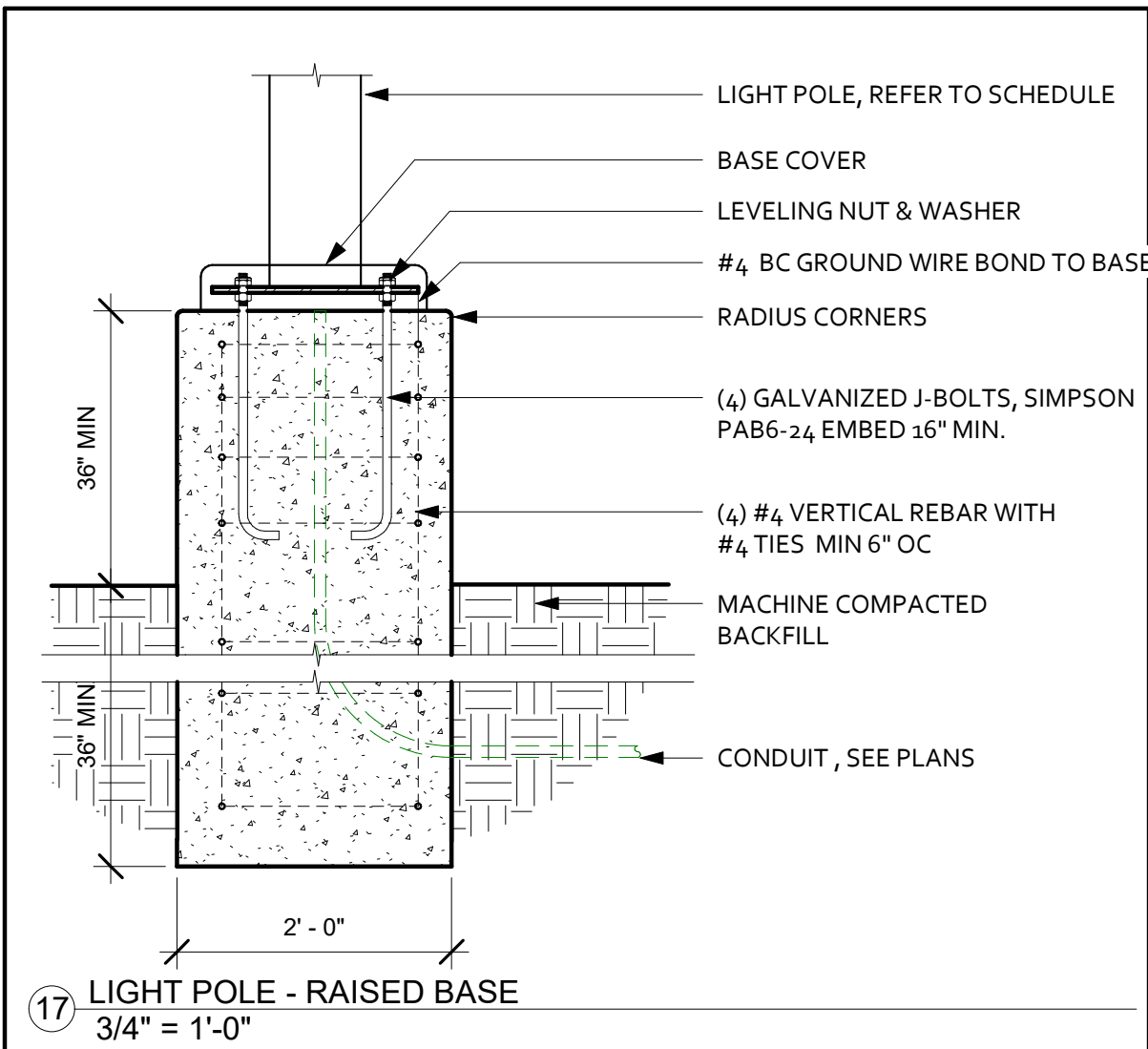
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C6



- A. REFER TO DETAILS FOR STRUCTURAL SECTIONS, GRADES, ELEVATIONS, ENGINEERING, ECT.
 - B. REFER TO DETAILS FOR CURB TYPES, SECTIONS, AND REINFORCING.
 - C. CONCRETE CREST/STREET FLATWORK: REFER TO SITE PLAN, AND/OR SPECIFICATIONS FOR CONCRETE FLATWORK FINISHES. SIDEWALKS, WALKWAYS ALONG SPECIFIABLE ROUTES OF TRAVEL, BETWEEN DISABLED PARKING SPACES AND BUILDING ENTRANCES SHALL:
 - 1. BE CONTINUOUSLY ACCESSIBLE
 - 2. HAVE VERTICAL CHANGES IN ELEVATION NOT TO EXCEED 1/4" MAX.
 - 3. BE MIN. 48" IN WIDTH.
 - 4. HAVE RAMPS COMPLYING WITH CBC SECTION 3307 WHERE NECESSARY TO CHANGE ELEVATIONS AT SLOPES EXCEEDING 5%.
 - D. EQUIPMENT PADS SHALL HAVE REINFORCING AS SPECIFIED PER MANUF'S DOCUMENTS. THEY SHALL CONFORM TO UTILITY DEPARTMENT STANDARDS. VERIFY LOCATION AND OVERALL DIMENSIONS.
 - E. INSTALL EXPANSION JOINT (EJ) FOR DRIVEWAY AND FLATWORK:

3

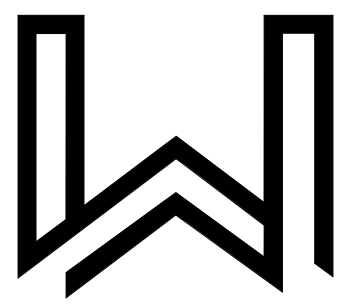
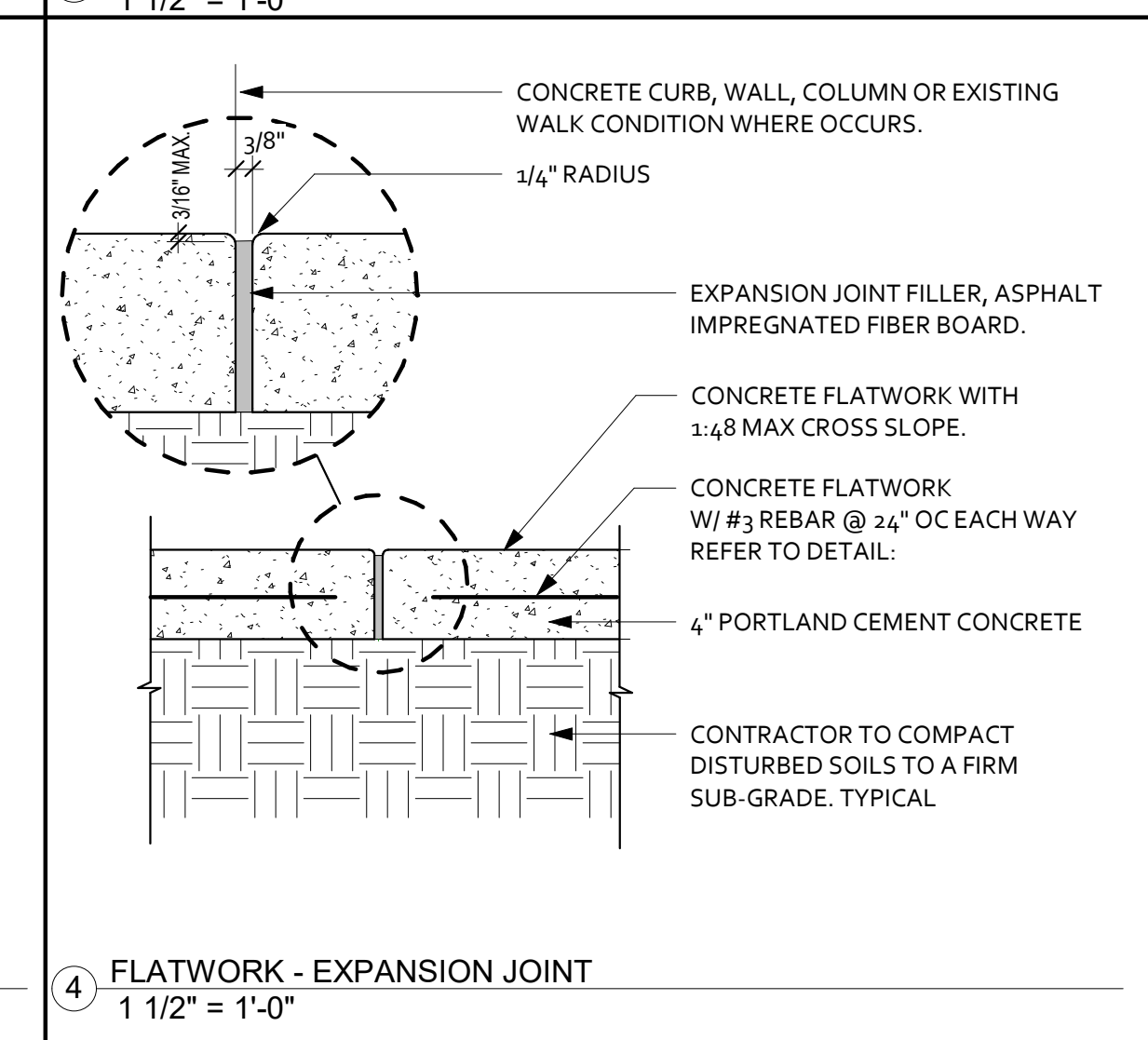
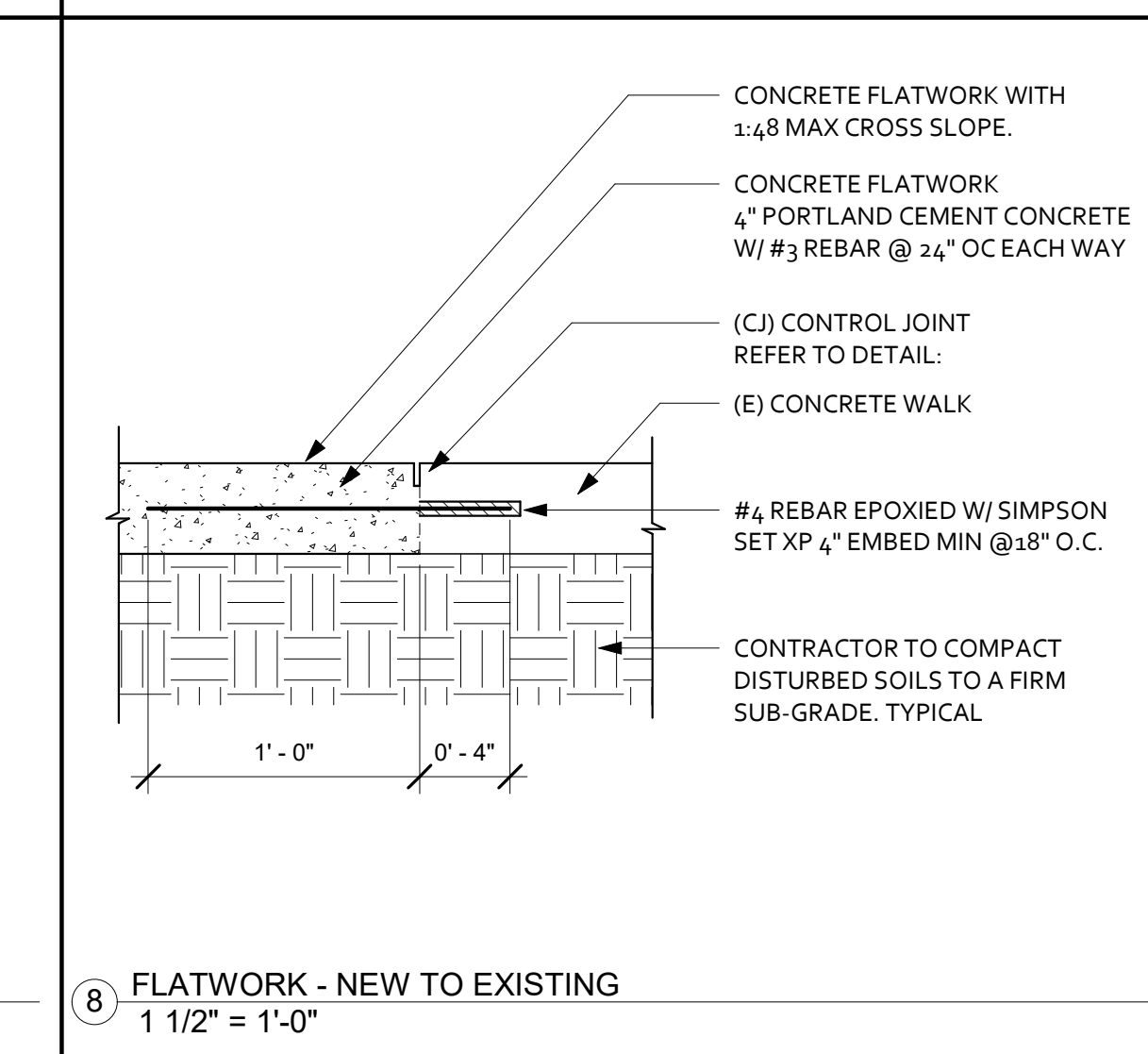
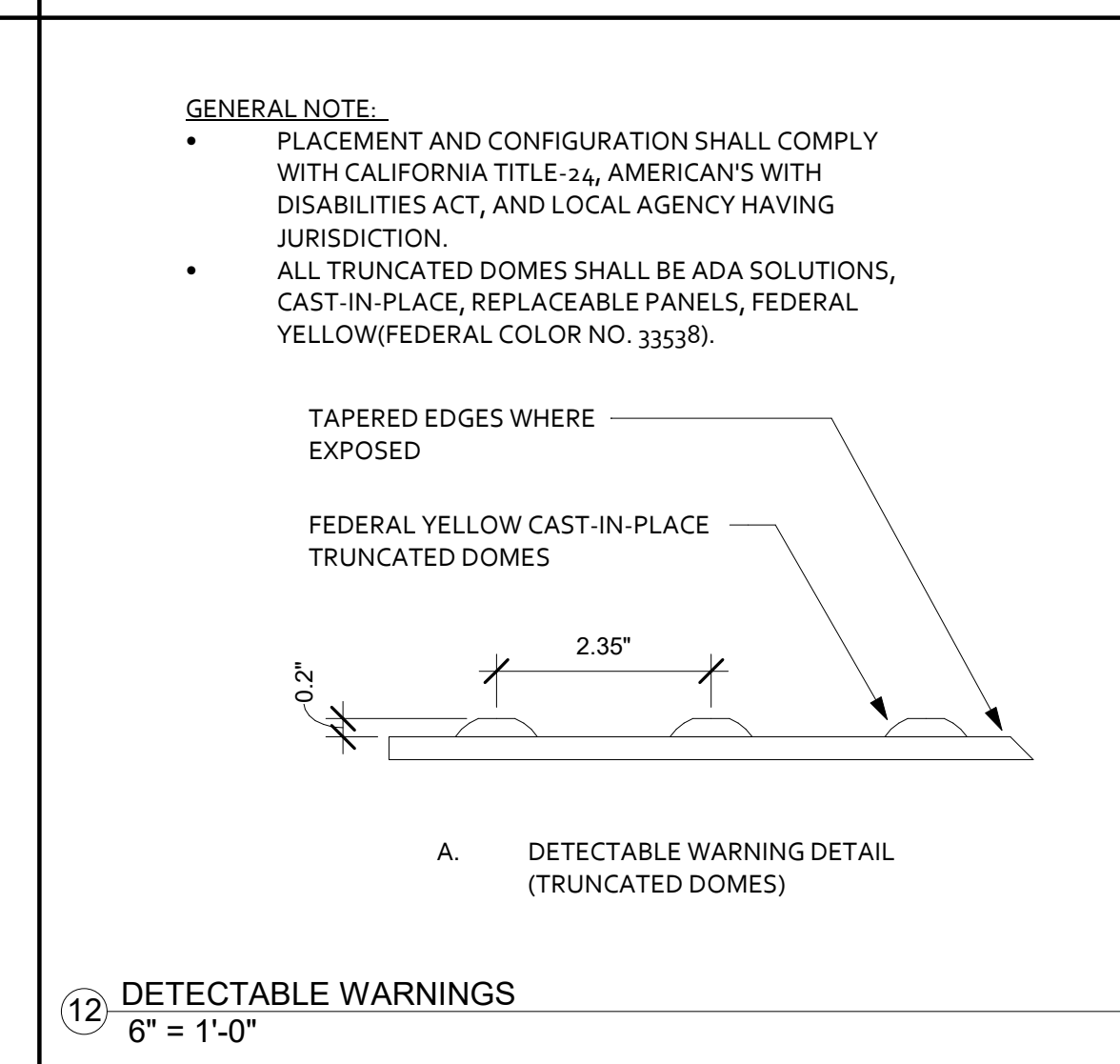
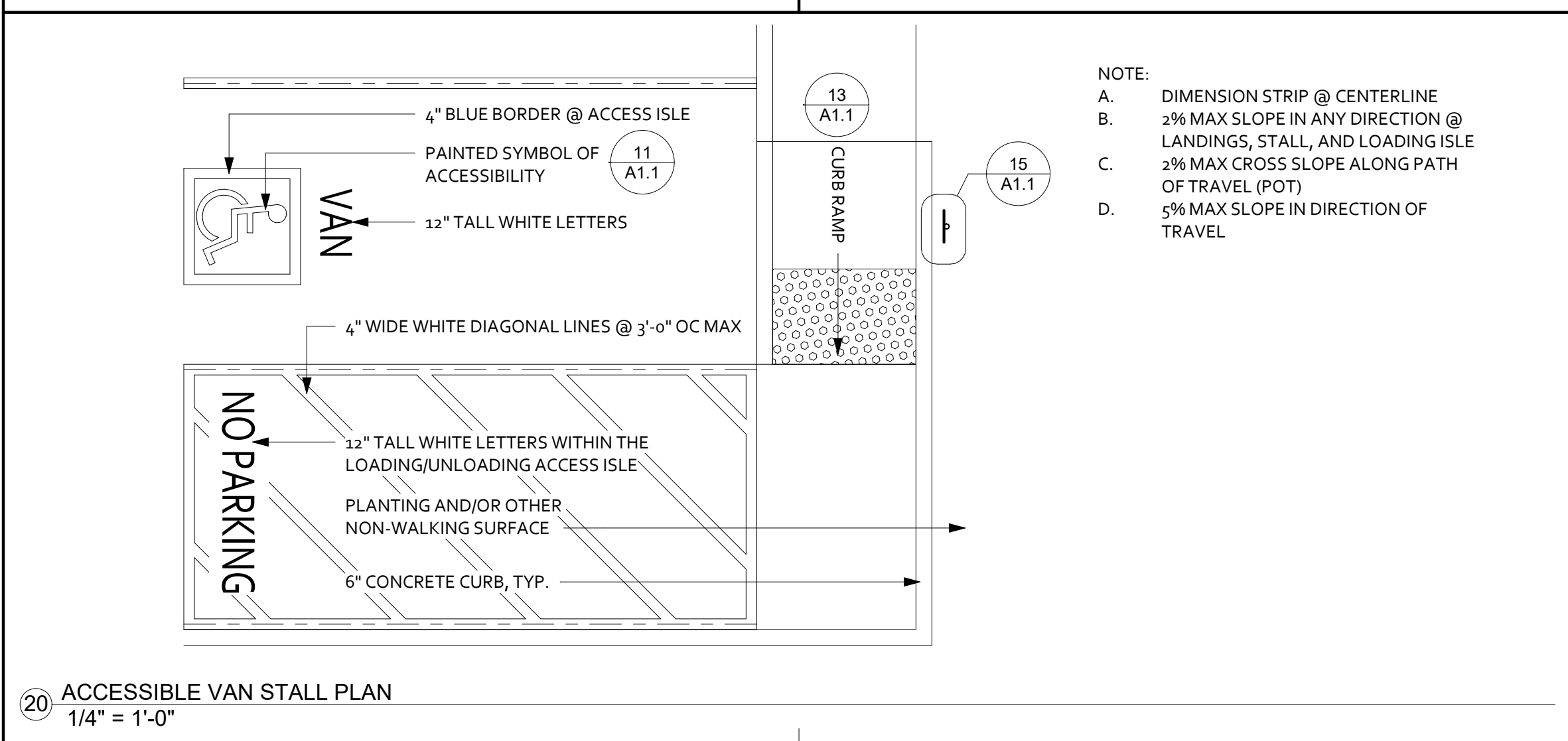
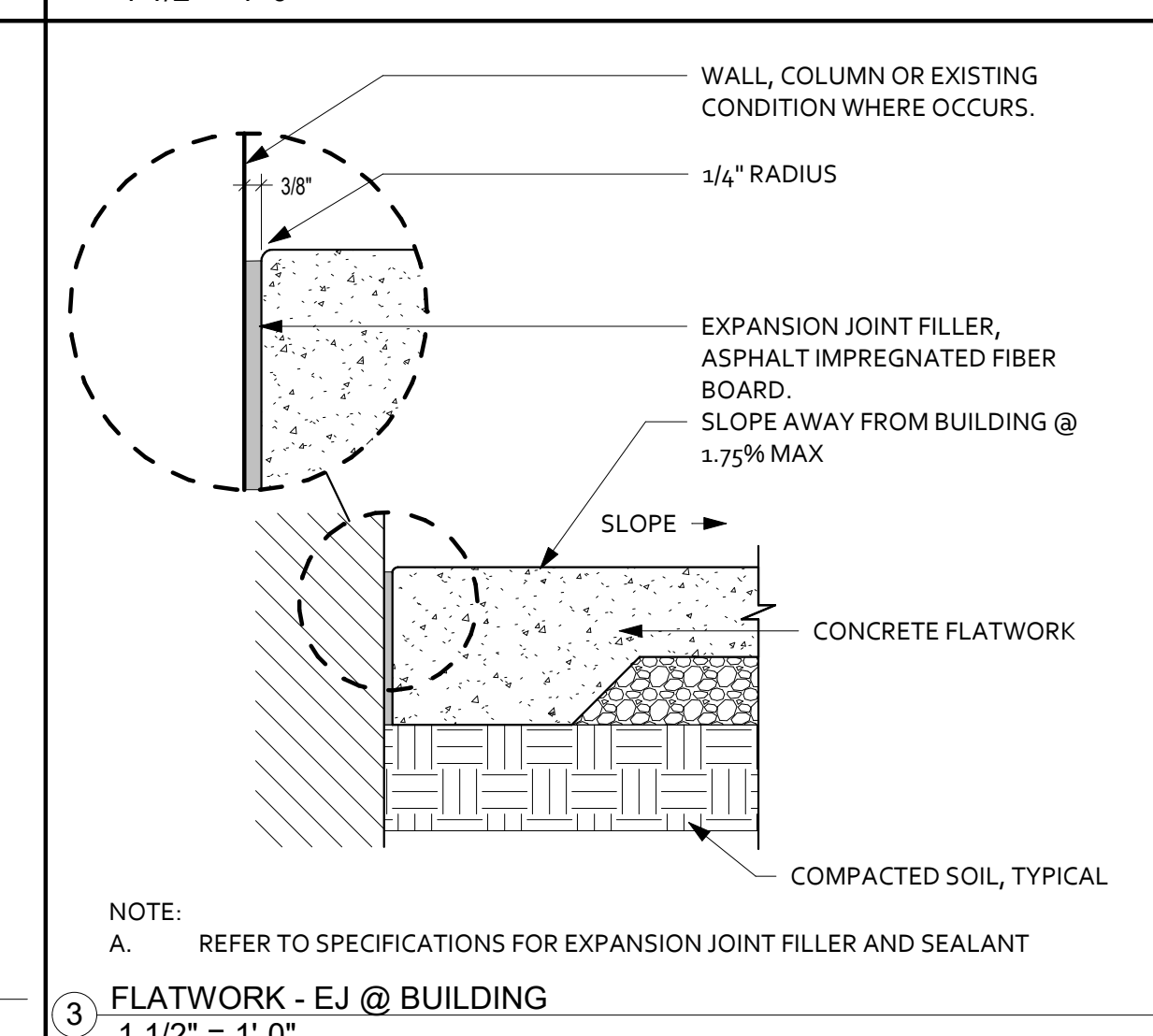
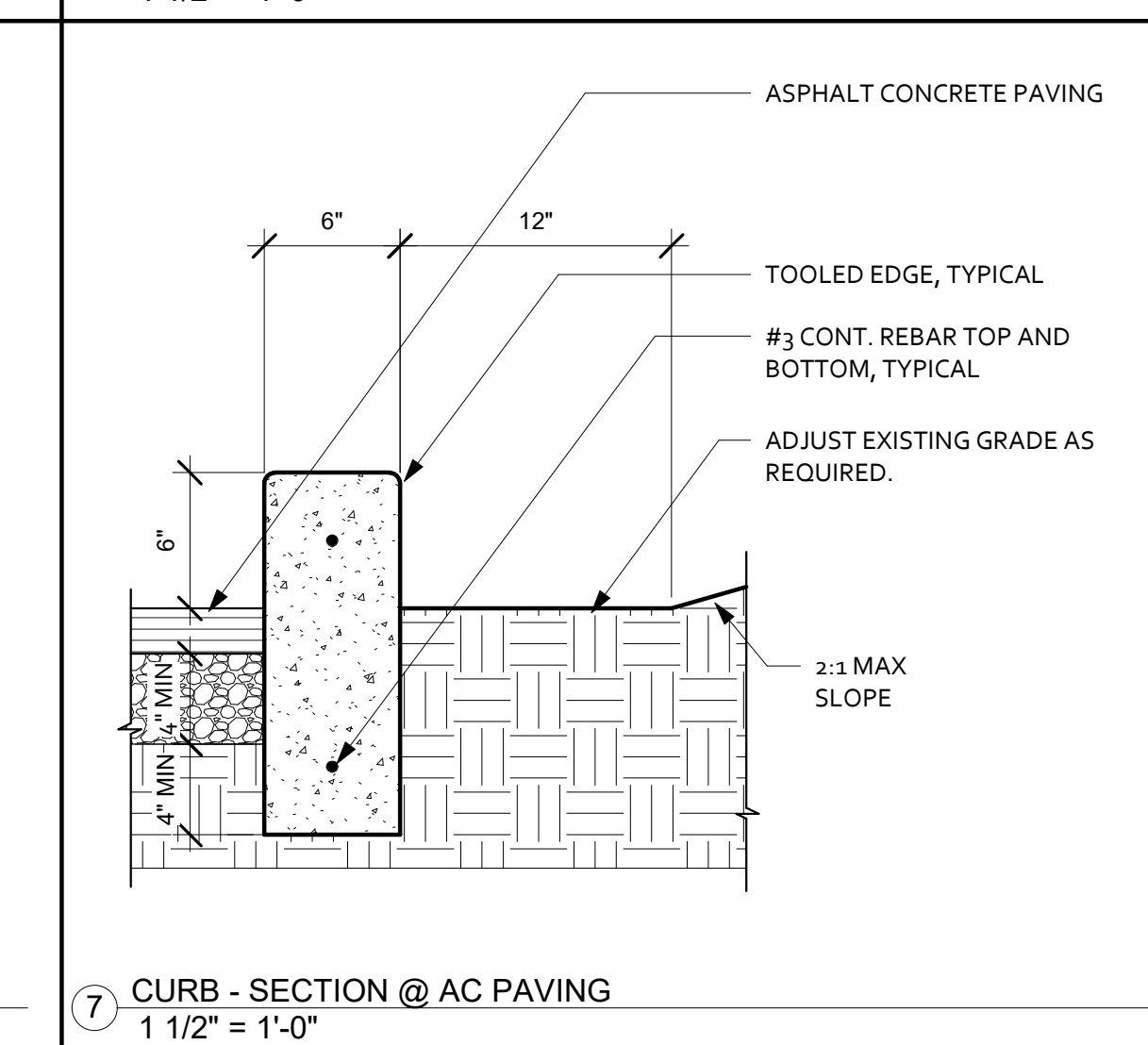
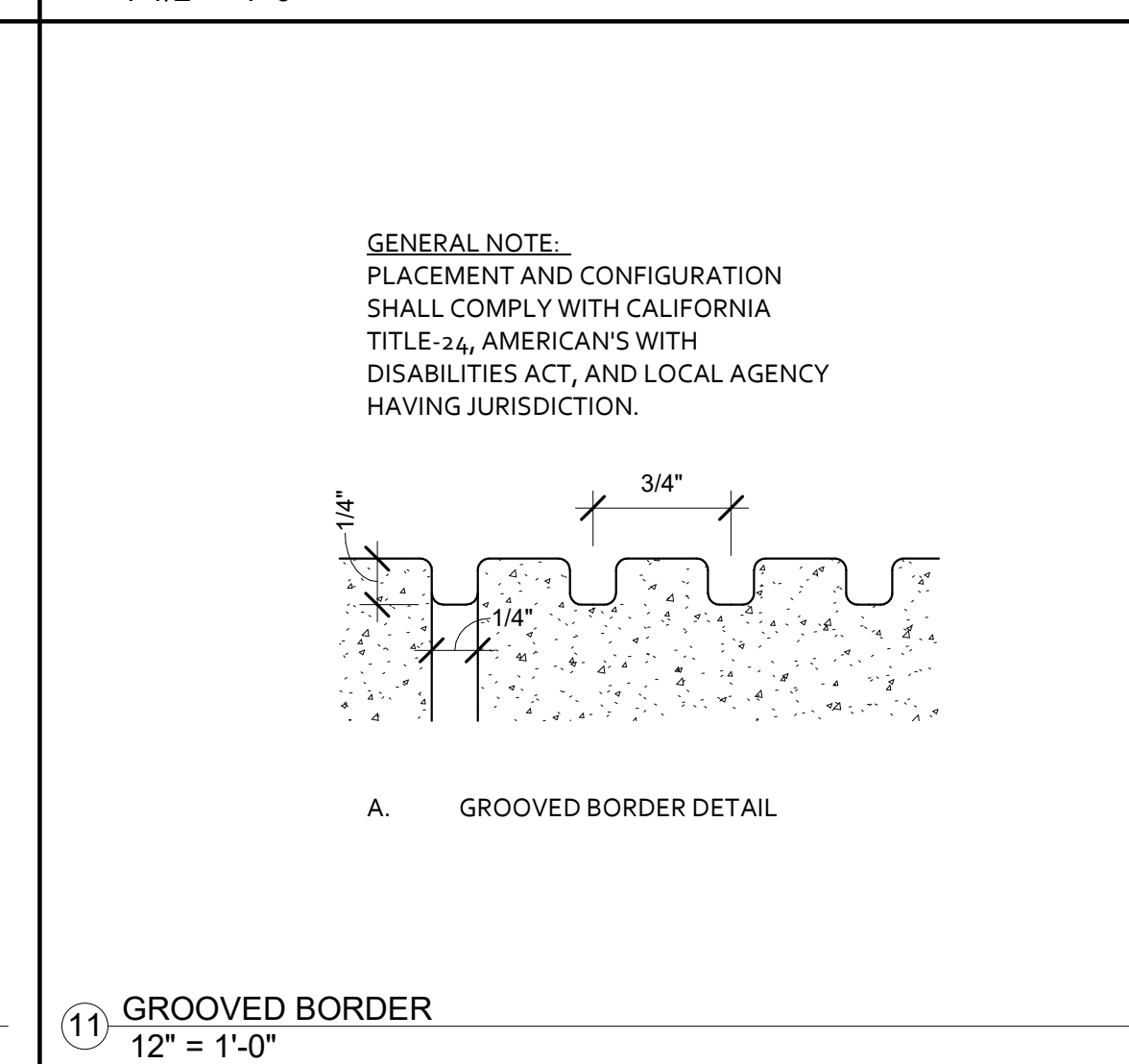
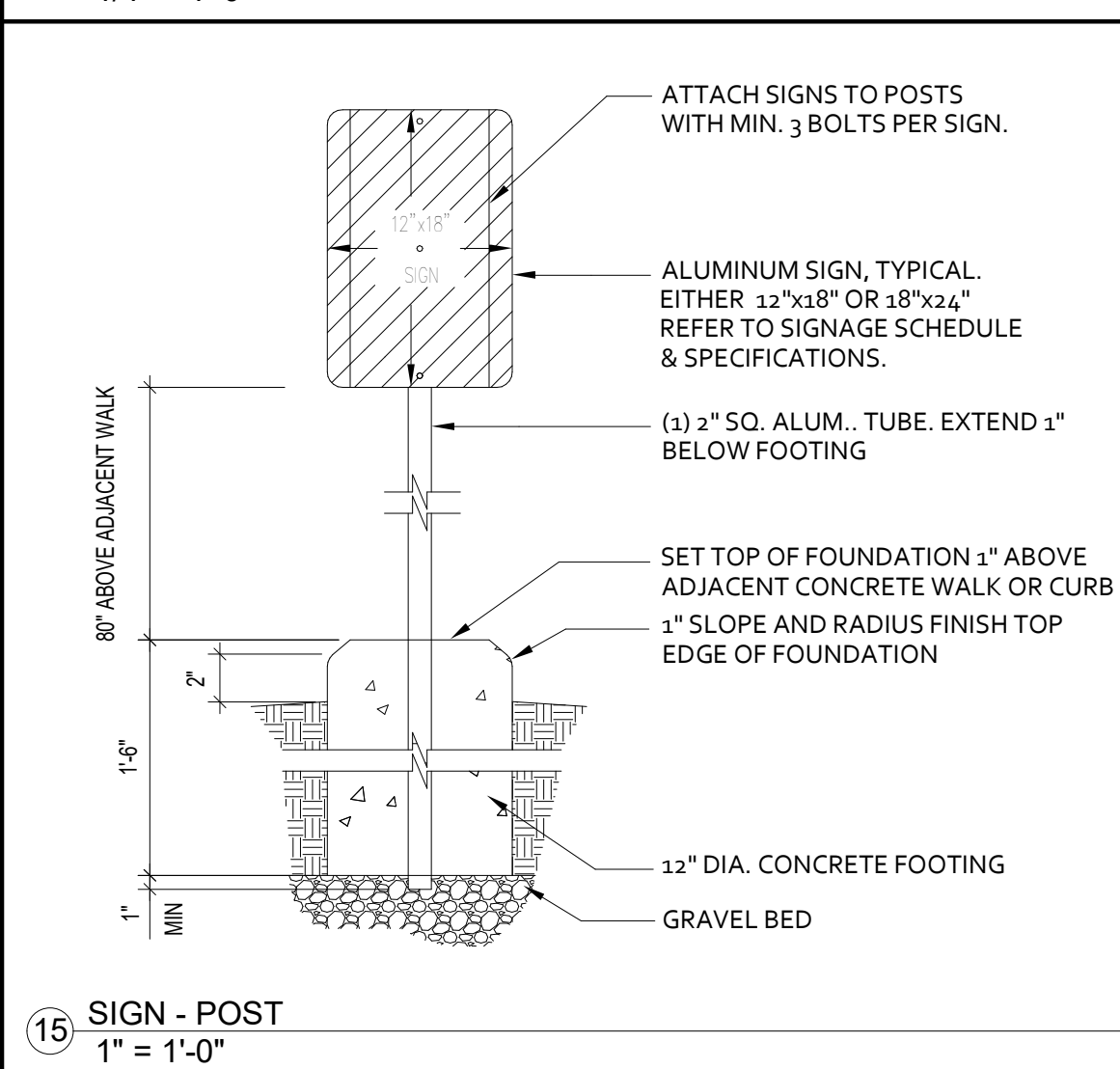
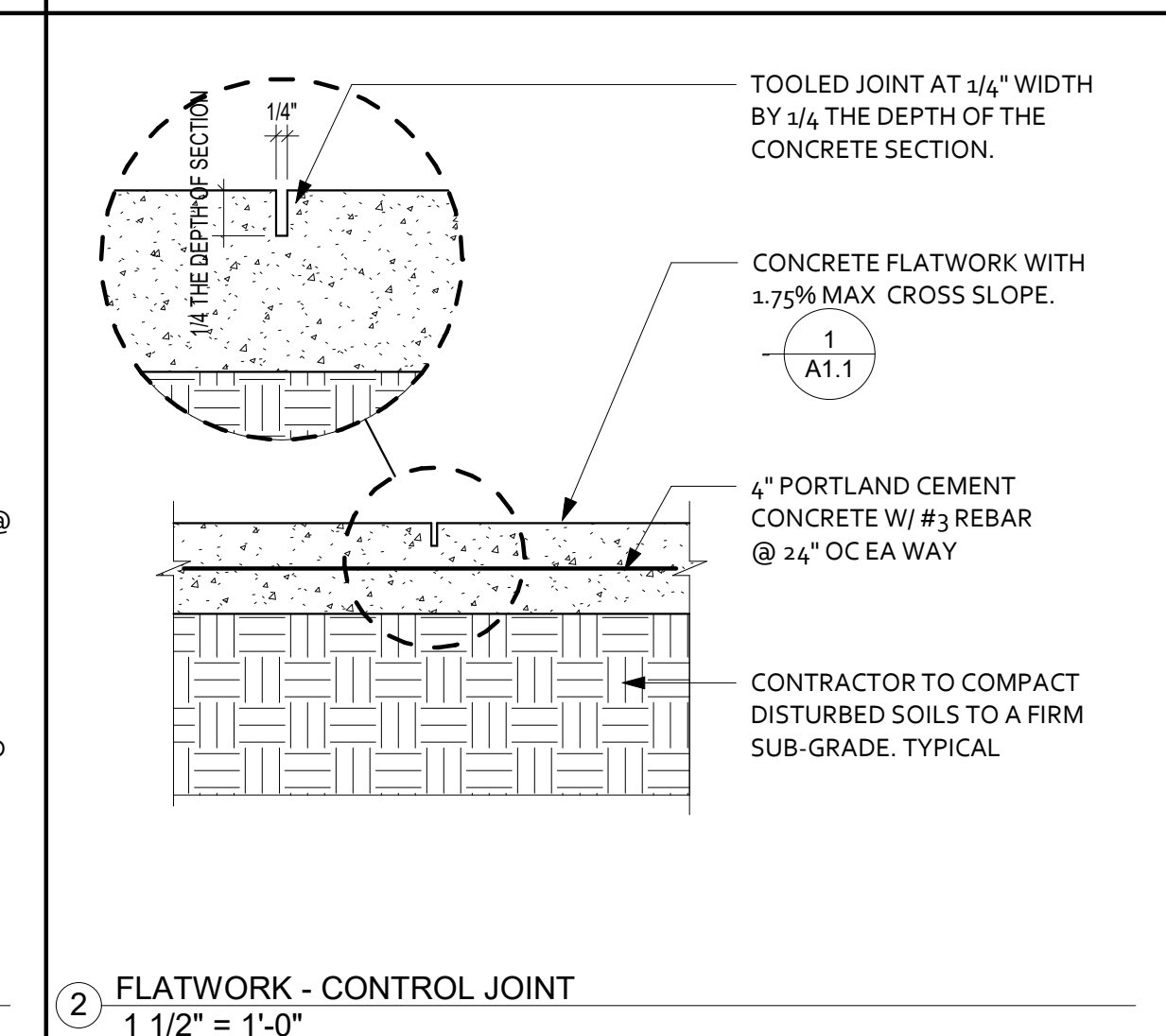
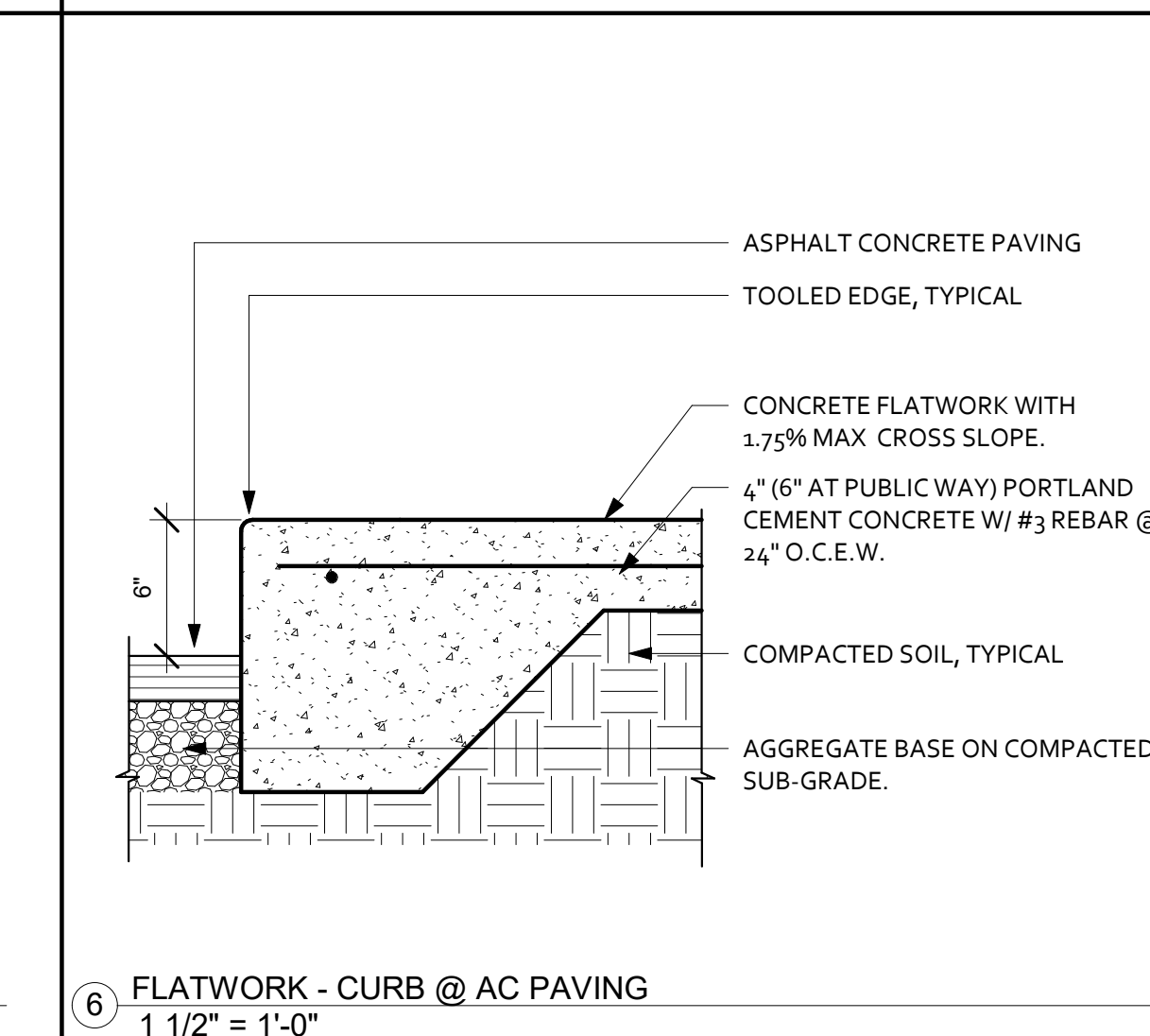
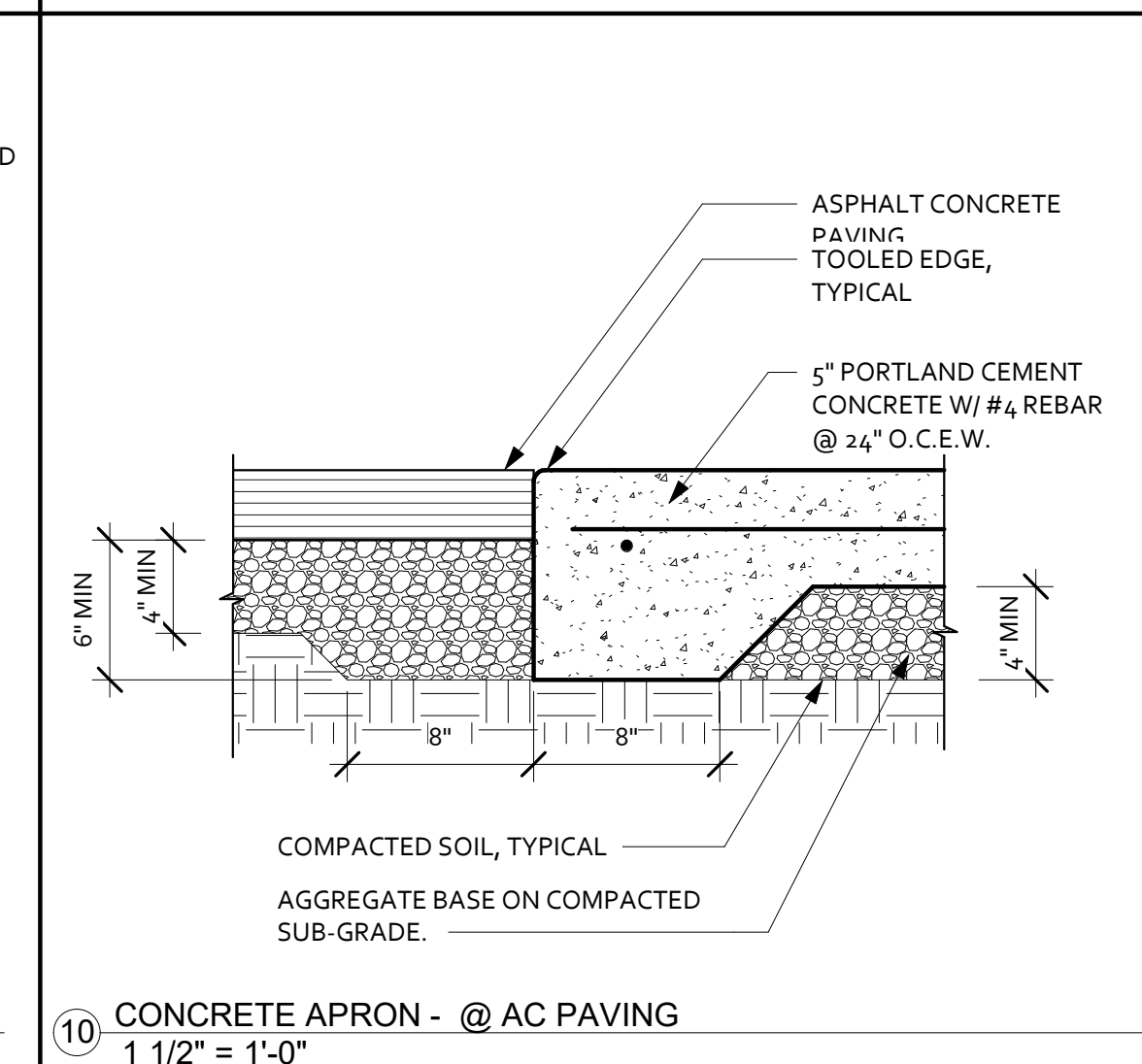
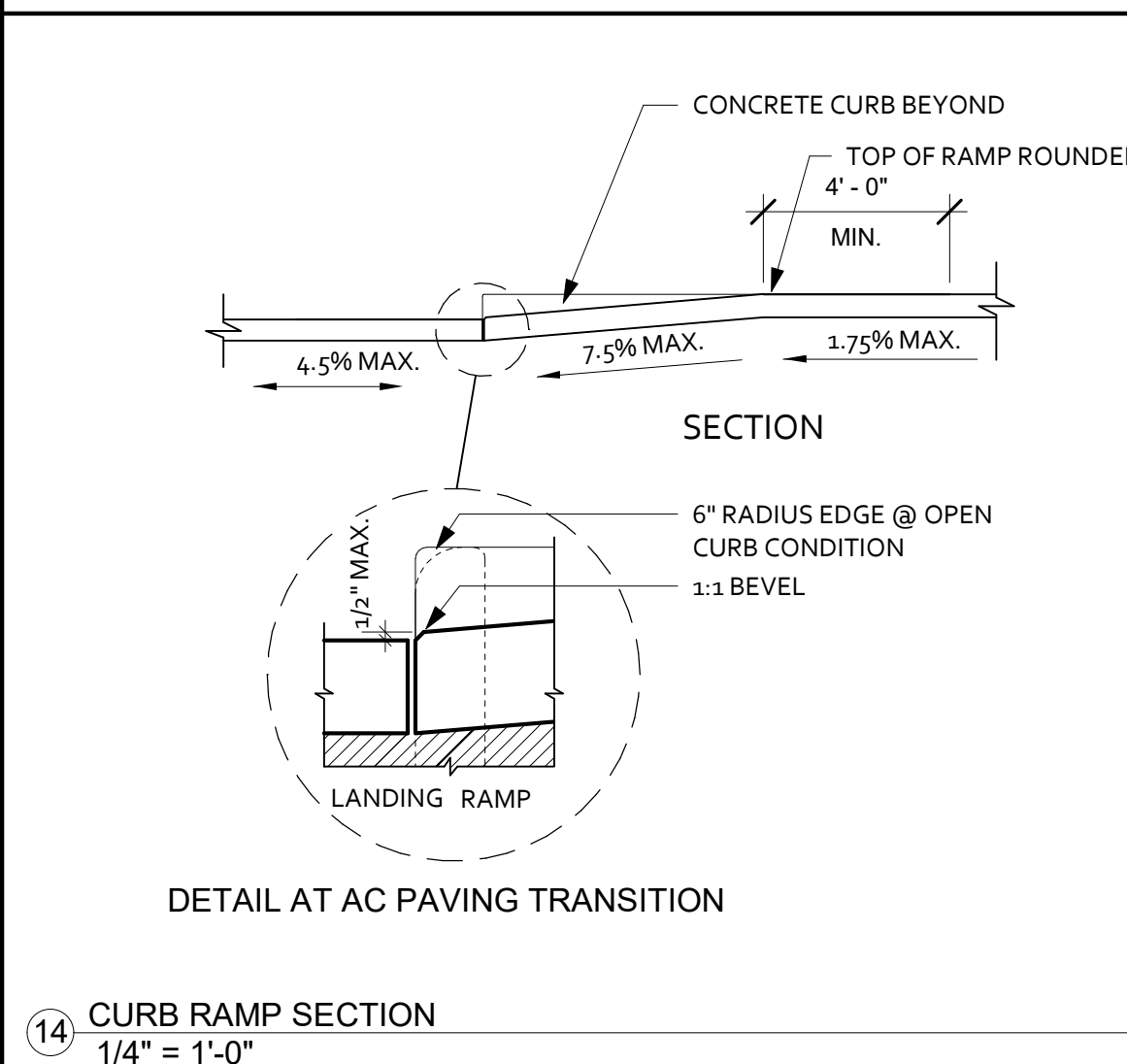
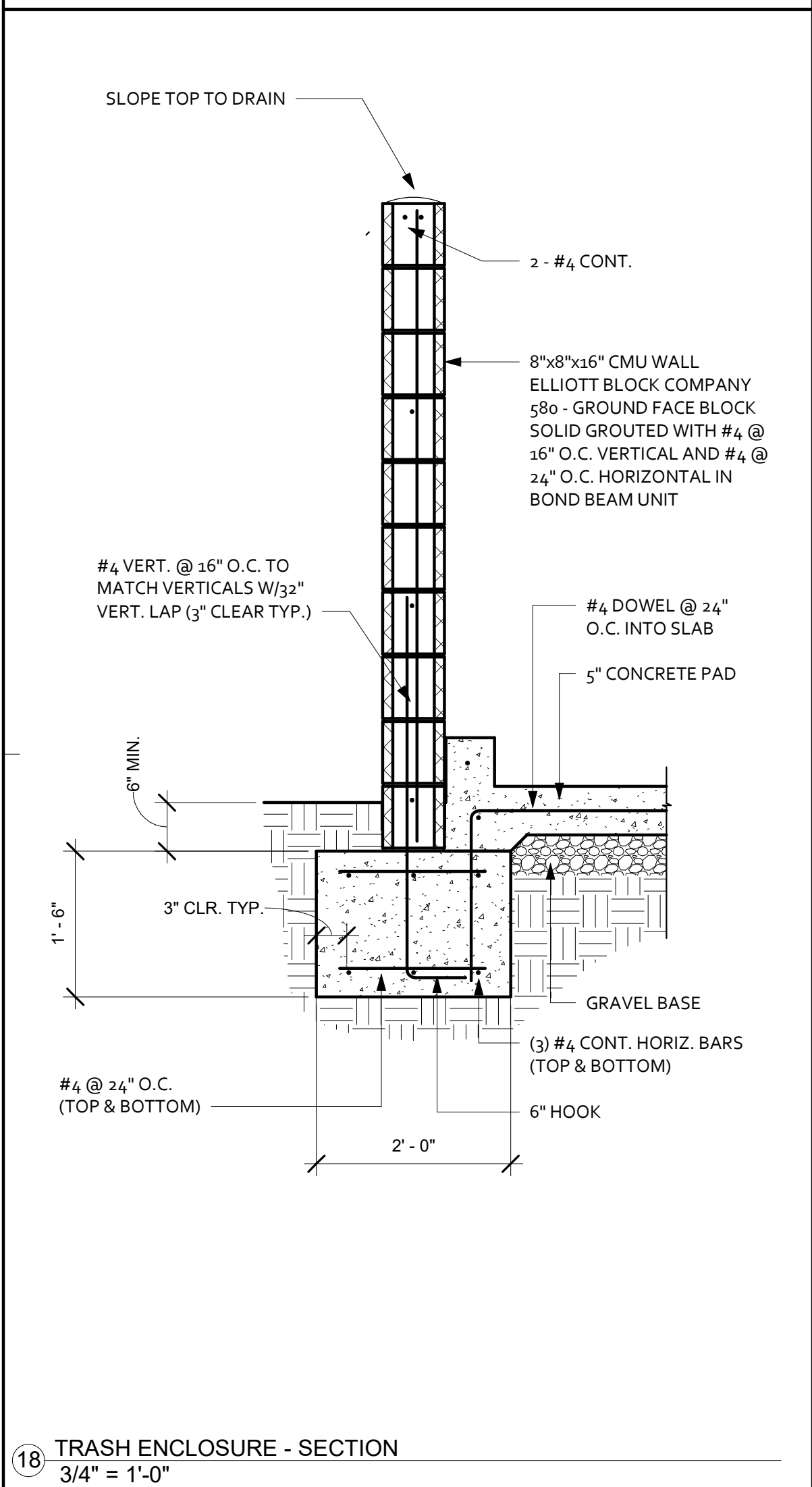
 - 1. WHERE INDICATED ON SITE PLAN
 - 2. AT DRIVEWAY TRANSITIONS
 - 3. BETWEEN FLATWORK
 - 4. AT 30'-0" O.C. MAX. SPACING
 - F. INSTALL CONTROL JOINTS (CJ) FOR CURBS AND FLATWORK:

2

 - 1. ALL INDICATIONS SHOWN ON SITE PLAN TO BE CONTROL JOINTS UNLESS NOTED AS AN EXPANSION JOINT (EJ)
 - 2. AT 30'-0" MAX SPACING
 - G. CONCRETE CURBS SHALL HAVE SMOOTH FINISH, TYPICAL
 - H. EXPOSED EDGES OF CONCRETE CURBS SHALL HAVE A RADIUS EDGE.
 - I. FOR MIX DESIGN REFER TO SPECIFICATIONS.
- 1

FLATWORK - GENERAL NOTES

1" = 1'-0"



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Obj. No.: 202201

ate: 05/30/202

ale: As indicate

Drawn By: RMV

WHITE DETAILS

Drawing Number:

A1.1

	EXISTING WALL LOCATION TO REMAIN
	EXISTING WALL LOCATION TO BE REMOVED
	EXISTING FINISH TO BE REMOVED, STRUCTURE TO REMAIN

A. THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT AND ANY OTHER REQUIRED APPROVALS PRIOR TO THE EXECUTION OF ANY DEMOLITION. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THE DEMOLITION, RECYCLING, STORAGE AND PROTECTION OF ALL ITEMS WITHIN THE PROJECT AREA.

B. DEMOLITION WORK SHALL COMPLY WITH LOCAL ORDINANCES AND SAFETY CODES OF STATE OF CALIFORNIA AND RULES AND REGULATIONS OF INDUSTRIAL ACCIDENT COMMISSION OF STATE OF CALIFORNIA APPLICABLE TO DEMOLITION WORK.

C. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH THE OWNER AND SHALL MEET THE RULES AND REGULATIONS SET FORTH BY THE OWNER AND AGENCIES HAVING JURISDICTION.

D. CONTRACTOR IS ADVISED THAT THERE MAY BE UNDERGROUND OR OTHERWISE CONCEALED PIPE LINES, ELECTRICAL/TELEPHONE WIRES, COLUMNS, BEAMS, FOOTINGS OR OTHER STRUCTURAL, MECHANICAL OR ELECTRICAL ITEMS. ALTHOUGH THE DRAWINGS PRODUCED BY THE ARCHITECT AND HIS CONSULTANTS ARE BELIEVED TO BE SUBSTANTIALLY CORRECT, THE ARCHITECT AND OWNER DO NOT GUARANTEE THE LOCATION OR EXISTENCE OR CONDITION OF ANY CONCEALED ITEMS. CONTRACTORS MUST PROCEED WITH CAUTION DURING DEMOLITION AND CONSTRUCTION AND MUST MAKE THEIR OWN DETERMINATION, MEASUREMENTS, AND EVALUATION OF THE WORKING CONDITION OF EXISTING CONCEALED ITEMS.

E. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, CONTRACTOR SHALL NOTIFY OWNER IN WRITING IMMEDIATELY. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES RELATIVE TO REMOVAL HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.

F. ANY INTERRUPTION TO BUILDING UTILITIES SHALL BE CLEARED WITH OWNER 72 HOURS PRIOR TO PROPOSED INTERRUPTION.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTAINERIZED DEBRIS REMOVAL AND RECYCLING SERVICE OF ALL DEBRIS FROM ALL TRADES AND ALL WORK RELATING TO THE PROJECT. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION DUMPSTER AND/OR CHUTE LOCATION WITH OWNER PRIOR TO PLACEMENT.

H. CONTRACTOR IS TO USE ADEQUATE MEANS AND METHODS OF DEMOLITION AND REMOVAL FOR THE TYPE OF WORK PERFORMED.

I. PERFORM DEMOLITION WORK IN SUCH A MANNER AS TO PREVENT DAMAGE TO EXISTING FACILITIES TO REMAIN OR TO BE SALVAGED, AND TO PREVENT INJURY TO PUBLIC AND WORKMEN ENGAGED ON SITE UNDER THIS OR OTHER CONTRACTS.

J. THE CONTRACTOR SHALL PROTECT THE BUILDING EXTERIOR, ROADWAY AND LANDSCAPE FROM DAMAGE DURING THE DEMOLITION. ALL DAMAGE SHALL BE REPAIRED BY CONTRACTOR AT THEIR EXPENSE AND APPROVED BY OWNER.

K. THE CONTRACTOR SHALL NOTIFY OWNER AND ARCHITECT AT LEAST 48 HOURS IN ADVANCE OF DEMOLISHING ITEMS NOT SPECIFIED ON THE PLANS.

L. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DEVIATIONS TO DEMOLITION PLANS. NOTIFY ARCHITECT OF ANY DEVIATIONS TO DEMOLITION PLANS.

M. ALL DOORS, WINDOWS, SIGNAGE, APPLIANCES AND LIGHT FIXTURES TO BE SALVAGED AND STORED PER OWNER'S INSTRUCTIONS.

N. WHEN FLOORING IS REMOVED, CONCRETE SLAB TO BE PREPARED FOR INSTALLATION OF NEW FLOORING MATERIAL, PER MANUFACTURER'S REQUIREMENTS.

O. ABANDONED PLUMBING PIPING & UTILITY CONDUITS TO BE DISCONNECTED & SEALED.

P. REFER TO EXTERIOR ELEVATIONS FOR ADDITION INFORMATION.

A. THE ASBESTOS NESHAP REGULATION, 40 CFR, SUBPART M SECTION 61.145 REQUIRES WRITTEN NOTIFICATION OF DEMOLITION OR RENOVATION OPERATIONS.

B. CONTRACTOR SHALL MAKE ALL REQUIRED NOTIFICATIONS.

C. CALIFORNIA AIR BOARD ASBESTOS FORM CAN BE DOWNLOADED AT:
<http://www.arb.ca.gov/enf/asbestos/asbestosform.pdf>

1. (E) WALL TO BE REMOVED, FOUNDATION & FLOOR TO REMAIN.
2. (E) DOOR & OPENING TO REMAIN.
3. REMOVE (E) DOOR.
4. REMOVE (E) WINDOWS AND INFILL OPENINGS.
5. REMOVE (E) CASEWORK AND COUNTERTOPS.
6. (E) LIGHT FIXTURE TO BE REMOVED.
7. SAW-CUT (E) SLAB FOR (N) PLUMBING LINES AND SHOWER FLOORS - CONTRACTOR TO VERIFY REQUIRED SIZES AND LOCATIONS.
8. SAW-CUT (E) SLAB FOR (N) WALK-OUT MAT.

024.100.C14	CASEWORK TO BE REMOVED
024.100.C17	DOOR AND FRAME TO BE REMOVED
024.100.C18	WINDOW AND FRAME TO BE REMOVED
024.100.C19	RELOCATE DOOR
024.100.C22	WALL TO BE REMOVED
024.100.C32	EQUIPMENT TO BE REMOVED
024.100.C35	FIXTURES TO BE REMOVED



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Proj. No.: 2022011

Date: 05/30/2023

Scale: $1/4" = 1'-0"$

Drawn By: AMR

Drawing Title:

EXISTING
DEMOLITION
PLAN - FIRST
FLOOR

Drawing Number:

A2.0

	(E) WALL LOCATION
	(N) WALL LOCATION
	WALL BELOW
	ALIGN FACE OF WALL FINISHES.
	DOOR TYPE: REFER TO SCHEDULE ON 1 / A3.1
	EQUIPMENT FIXTURE: REFER TO SCHEDULE ON 5 / A3.0
	TOILET ROOM ACCESSORY: REFER TO SCHEDULE ON 5 / A3.0
	T.V./CABLE JACK
	THERMOSTAT TEMPERATURE CONTROL SYSTEM

A. INSTALLATION OF FRAMING SHALL BE WIDTHS HEREIN LISTED IN WALL TYPES UNLESS SPECIFIED DIFFERENTLY BY STRUCTURAL DOCUMENTS. CONTRACTOR SHALL NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO INSTALLATION.

B. REFER TO PLANS, SECTIONS AND DETAILS FOR STUD SIZE CHANGES FROM HEREIN SCHEDULED.

C. FOR INTERIOR FINISH SCHEDULE AND LEGEND FOR FLOOR, WALL AND CEILING FINISHES REFER TO: 1 / A2.2

D. FOR DOOR TYPES, HARDWARE AND SCHEDULE REFER TO: 1 / A3.1

E. FOR TOILET ROOM ACCESSORIES FIXTURE TYPE AND MOUNTING HEIGHT REQUIREMENTS REFER TO: 6 / A3.0

F. REFER TO SHEET SPECIFICATION FOR ADDITIONAL KEYNOTE SECTION INFORMATION. 5 / A3.0

A. EXTERIOR DIMENSIONS ARE MEASURED TO FACE OF STRUCTURAL SHEATHING / SLAB EDGE OR CENTERLINE OF STRUCTURE U.N.O.

B. INTERIOR DIMENSIONS ARE MEASURED TO FACE OF STUD, U.N.O.

C. DOORS AND WINDOWS ARE MEASURED TO CENTERLINE OF OPENINGS ALL ANGLED WALLS ARE AT 45 DEGREES UNLESS NOTED OTHERWISE.

D. SET JAMB AT HINGE SIDE OF

E. EXTERIOR DOORS @ 4-5" U.N.O.

INTERIOR DOORS @ 4-5" U.N.O.

1. METAL DETECTOR.
2. METAL GRATE WALK OFF MAT.

061000.A1	WOOD FRAMING
072100.R	ACOUSTIC GLASS-FIBER-BLANKET INSULATION
092116.B1	5/8" TYPE 'X' GYPSUM BOARD

1. FOR ADDITIONAL INFORMATION REFER TO SHEET SPECIFICATION SECTIONS: 061000 ROUGH CARPENTRY, 065000 SHEATHING, 072000 THERMAL BARRIERS, 075000 WEATHER BARRIERS, AND 092000 GYPSUM BOARD.
2. NO SUBSTRATE ON INTERIOR SIDE OF CAVITIES, U.N.O.
3. INSTALL TILE BACKER BOARD OR VAPOR PERMEABLE WATER MEMBRANE AT SHOWER WALLS. SEAL ALL JOINTS WITH MANUFACTURES TAPE AND LATEX MODIFIED MORTAR.
4. INSTALL ACOUSTICAL BATT INSULATION.
5. WALL HEIGHT TO BE 42" WITH 1 1/2" BIRCH CAP.

Schedule - Wall Types						
Type	Framing	Side One	Side Two	Insulation	Fire Rating	Schedule Notes
W1	2x4 Wood Stud @ 16" o.c.	5/8" Type 'X' Gyp Board	5/8" Type 'X' Gyp Board	R-13	Non-Rated	2, 2, 4
W2	2x6 Wood Stud @ 16" o.c.	5/8" Type 'X' Gyp Board	5/8" Type 'X' Gyp Board	R-13	Non-Rated	1, 3, 4
W3	2x4 Wood Stud @ 16" o.c.	5/8" Type 'X' Gyp Board	5/8" Type 'X' Gyp Board	R-13	Non-Rated	5



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Scale: $1/4" = 1'-0"$

Drawn By: AMR

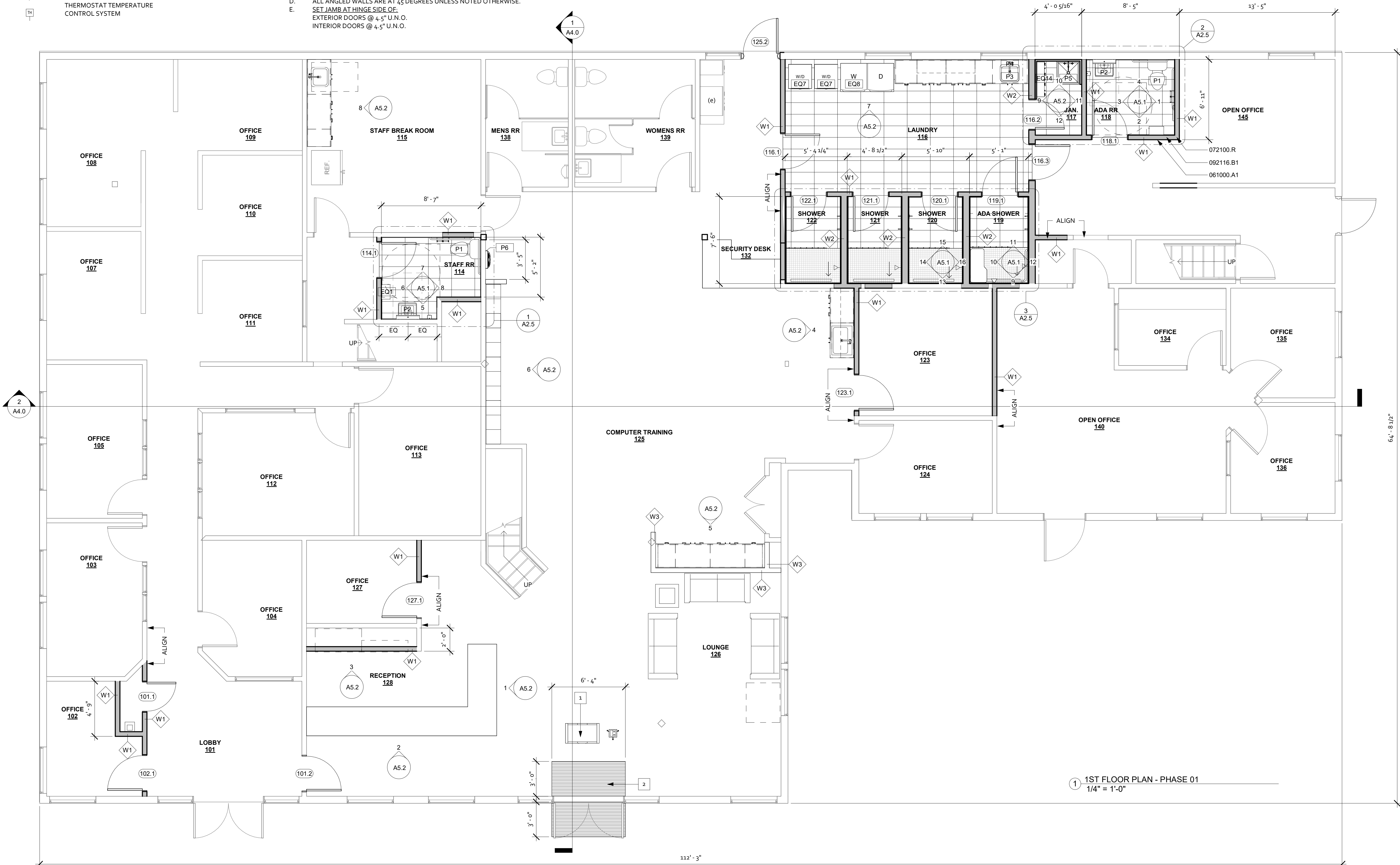
Drawing Title:

FLOOR PLAN OVERALL

Drawing Number:

A2.1

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FLOORING:

LAMINATE:



- A. PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES.
- B. SET FLOORING TRANSITIONS CENTERED BELOW DOOR IN CLOSED POSITION AT DOOR FRAME OPENINGS.
- C. FLOOR FINISH IS CONTINUOUS UNDER ALL COUNTERTOPS AND FIXTURES, TYPICAL.
- D. REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR FINISH INFORMATION.
- E. REFER TO REFLECTIVE CEILING PLAN FOR CEILING FINISH INFORMATION.

1. BASIS OF DESIGN, OWNER/TENANT TO APPROVE FINAL SELECTION. PROVIDE SAMPLE.
2. INSTALL 51" HIGH TILE WAINSCOT.
3. INSTALL 48" HIGH FRP ON WALLS AT MOP SINK.
4. REFER TO INTERIOR ELEVATION FOR ADDITIONAL INFORMATION.

081613.B	FIBERGLASS DOORS: SMOOTH FINISH
093000.A	CERAMIC TILE ASSEMBLY
123623.A	COUNTERTOP: PLASTIC LAMINATE FINISH

101	LOBBY	E	B1	P2	E	
102	OFFICE	E	B1	P2	E	
114	STAFF RR	F2	B2	P1		
116	LAUNDRY	F2	B2	P1		
117	JAN.	F2	B2	P1		
118	ADA RR	F2	B2	P1		
119	ADA SHOWER	F2 3	B2	P1		
120	SHOWER	F2 3	B2	P1		
121	SHOWER	F2 3	B2	P1		
122	SHOWER	F2 3	B2	P1		
123	OFFICE	F1	B2	P2		
125	COMPUTER TRAINING	F1	B2	P2		
126	LOUNGE	F1	B2	P2		
127	OFFICE	F1	B2	P2		
128	RECEPTION	F1	B2	P2		
132	SECURITY DESK	F1	B2	P2		
140	OPEN OFFICE	E	B1	P2	E	
145	OPEN OFFICE	E	B1	P2	E	



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LEGEND

- | | |
|---|---|
|  | EXISTING WALL LOCATION TO REMAIN |
| | EXISTING WALL LOCATION TO BE REMOVED |
|  | EXISTING FINISH TO BE REMOVED, STRUCTURE TO REMAIN. |

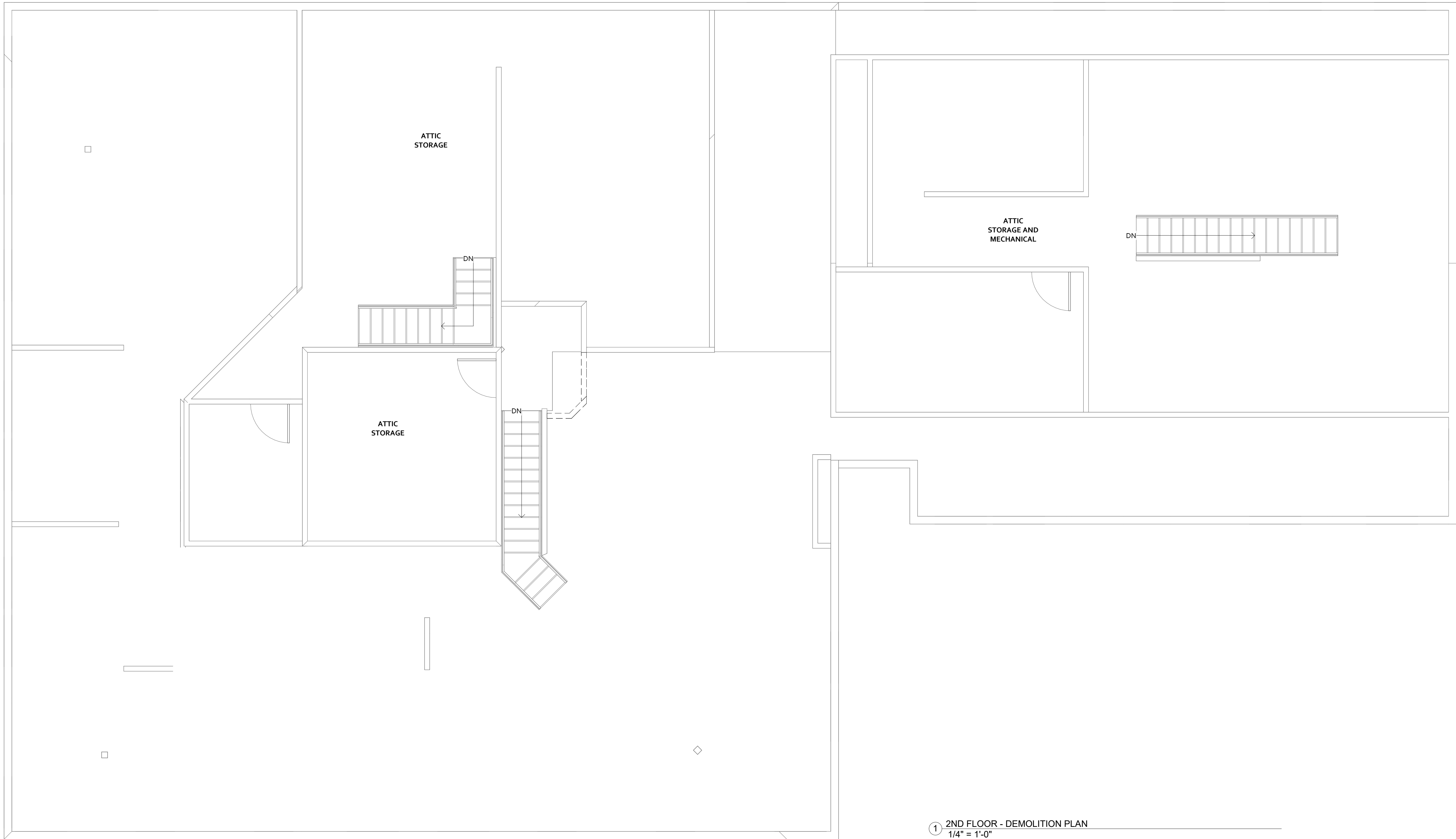
GENERAL NOTES

- | | |
|----|---|
| A. | THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT AND ANY OTHER REQUIRED APPROVALS PRIOR TO THE EXECUTION OF ANY DEMOLITION. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THE DEMOLITION, RECYCLING, STORAGE AND PROTECTION OF ALL ITEMS WITHIN THE PROJECT AREA. |
| B. | DEMOLITION WORK SHALL COMPLY WITH LOCAL ORDINANCES AND SAFETY CODES OF STATE OF CALIFORNIA AND RULES AND REGULATIONS OF INDUSTRIAL ACCIDENT COMMISSION OF STATE OF CALIFORNIA APPLICABLE TO DEMOLITION WORK. |
| C. | THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH THE OWNER AND SHALL MEET THE RULES AND REGULATIONS SET FORTH BY THE OWNER AND AGENCIES HAVING JURISDICTION. |
| D. | CONTRACTOR IS ADVISED THAT THERE MAY BE UNDERGROUND OR OTHERWISE CONCEALED PIPE LINES, ELECTRICAL/TELEPHONE WIRES, COLUMNS, BEAMS, FOOTINGS OR OTHER STRUCTURAL, MECHANICAL OR ELECTRICAL ITEMS. ALTHOUGH THE DRAWINGS PRODUCED BY THE ARCHITECT AND HIS CONSULTANTS ARE BELIEVED TO BE SUBSTANTIALLY CORRECT, THE ARCHITECT AND OWNER DO NOT GUARANTEE THE LOCATION OR EXISTENCE OR CONDITION OF ANY CONCEALED ITEMS. CONTRACTORS MUST PROCEED WITH CAUTION DURING DEMOLITION AND CONSTRUCTION AND MUST MAKE THEIR OWN DETERMINATION, MEASUREMENTS, AND EVALUATION OF THE WORKING CONDITION OF EXISTING CONCEALED ITEMS. |
| E. | IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, CONTRACTOR SHALL NOTIFY OWNER IN WRITING IMMEDIATELY. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES RELATIVE TO REMOVAL HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. |
| F. | ANY INTERRUPTION TO BUILDING UTILITIES SHALL BE CLEARED WITH OWNER 72 HOURS PRIOR TO PROPOSED INTERRUPTION. |
| G. | CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTAINERIZED DEBRIS REMOVAL AND RECYCLING SERVICE OF ALL DEBRIS FROM ALL TRADES AND ALL WORK RELATING TO THE PROJECT. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION DUMPSITE AND/OR CHUTE LOCATION WITH OWNER PRIOR TO PLACEMENT. |
| H. | CONTRACTOR IS TO USE ADEQUATE MEANS AND METHODS OF DEMOLITION AND REMOVAL FOR THE TYPE OF WORK PERFORMED. |
| I. | PERFORM DEMOLITION WORK IN SUCH A MANNER AS TO PREVENT DAMAGE TO EXISTING FACILITIES TO REMAIN OR TO BE SALVAGED, AND TO PREVENT INJURY TO PUBLIC AND WORKMEN ENGAGED ON SITE UNDER THIS OR OTHER CONTRACTS. |
| J. | THE CONTRACTOR SHALL PROTECT THE BUILDING EXTERIOR, ROADWAY AND LANDSCAPE FROM DAMAGE DURING THE DEMOLITION. ALL DAMAGE SHALL BE REPAIRED BY CONTRACTOR AT THEIR EXPENSE AND APPROVED BY OWNER. |
| K. | THE CONTRACTOR SHALL NOTIFY OWNER AND ARCHITECT AT LEAST 48 HOURS IN ADVANCE OF DEMOLISHING ITEMS NOT SPECIFIED ON THE PLANS. |
| L. | THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DEVIATIONS TO DEMOLITION PLANS. NOTIFY ARCHITECT OF ANY DEVIATIONS TO DEMOLITION PLANS. |
| M. | ALL DOORS, WINDOWS, SIGNAGE, APPLIANCES AND LIGHT FIXTURES TO BE SALVAGED AND STORED PER OWNER'S INSTRUCTIONS. |
| N. | WHERE FLOORING IS REMOVED, CONCRETE SLAB TO BE PREPARED FOR INSTALLATION OF NEW FLOORING MATERIAL, PER MANUFACTURER'S REQUIREMENTS. |
| O. | ABANDONED PLUMBING PIPING & UTILITY CONDUITS TO BE DISCONNECTED & SEALED. |
| P. | REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. |

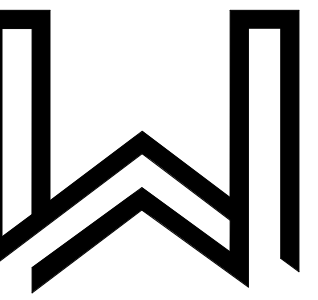
DEMOLITION NOTICE REQUIRED

- A. THE ASBESTOS NESHAP REGULATION, 40 CFR, SUBPART M SECTION 61.145 REQUIRES WRITTEN NOTIFICATION OF DEMOLITION OR RENOVATION OPERATIONS.
- B. CONTRACTOR SHALL MAKE ALL REQUIRED NOTIFICATIONS.
- C. CALIFORNIA AIR BOARD ASBESTOS FORM CAN BE DOWNLOADED AT:

<http://www.arb.ca.gov/enf/asbestos/asbestosform.pdf>



1 2ND FLOOR - DEMOLITION PLAN
1/4" = 1'-0"



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Scale: $1/4" = 1'-0"$

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Drawing Title:

EXISTING
DEMOLITION
PLAN SECOND
FLOOR

Drawing Number:

A2.3

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	(E) WALL LOCATION
	(N) WALL LOCATION
	WALL BELOW
	ALIGN FACE OF WALL FINISHES.
	DOOR TYPE: REFER TO SCHEDULE ON 1 / A3.1
	EQUIPMENT FIXTURE: REFER TO SCHEDULE ON 5 / A3.0
	TOILET ROOM ACCESSORY: REFER TO SCHEDULE ON 5 / A3.0
	T.V. / CABLE JACK
	THERMOSTAT TEMPERATURE CONTROL SYSTEM

A. INSTALLATION OF FRAMING SHALL BE WIDTHS HEREIN LISTED IN WALL TYPES UNLESS SPECIFIED DIFFERENTLY BY STRUCTURAL DOCUMENTS. CONTRACTOR SHALL NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO INSTALLATION.

B. REFER TO PLANS, SECTIONS AND DETAILS FOR STUD SIZE CHANGES FROM HEREIN SCHEDULED.

C. FOR INTERIOR FINISH SCHEDULE AND LEGEND FOR FLOOR, WALL, AND CEILING FINISHES REFER TO: 1 / A.2.2

D. FOR DOOR TYPES, HARDWARE AND SCHEDULE REFER TO: 1 / A.3.1

E. FOR TOILET ROOM ACCESSORIES FIXTURE TYPE AND MOUNTING HEIGHT REQUIREMENTS REFER TO: 6 / A.3.0

F. REFER TO SHEET SPECIFICATION FOR ADDITIONAL KEYNOTE SECTION INFORMATION. 5 / A.3.0

A. EXTERIOR DIMENSIONS ARE MEASURED TO FACE OF STRUCTURAL SHEATHING / SLAB EDGE OR CENTERLINE OF STRUCTURE U.N.O.

B. INTERIOR DIMENSIONS ARE MEASURED TO FACE OF STUD, U.N.O.

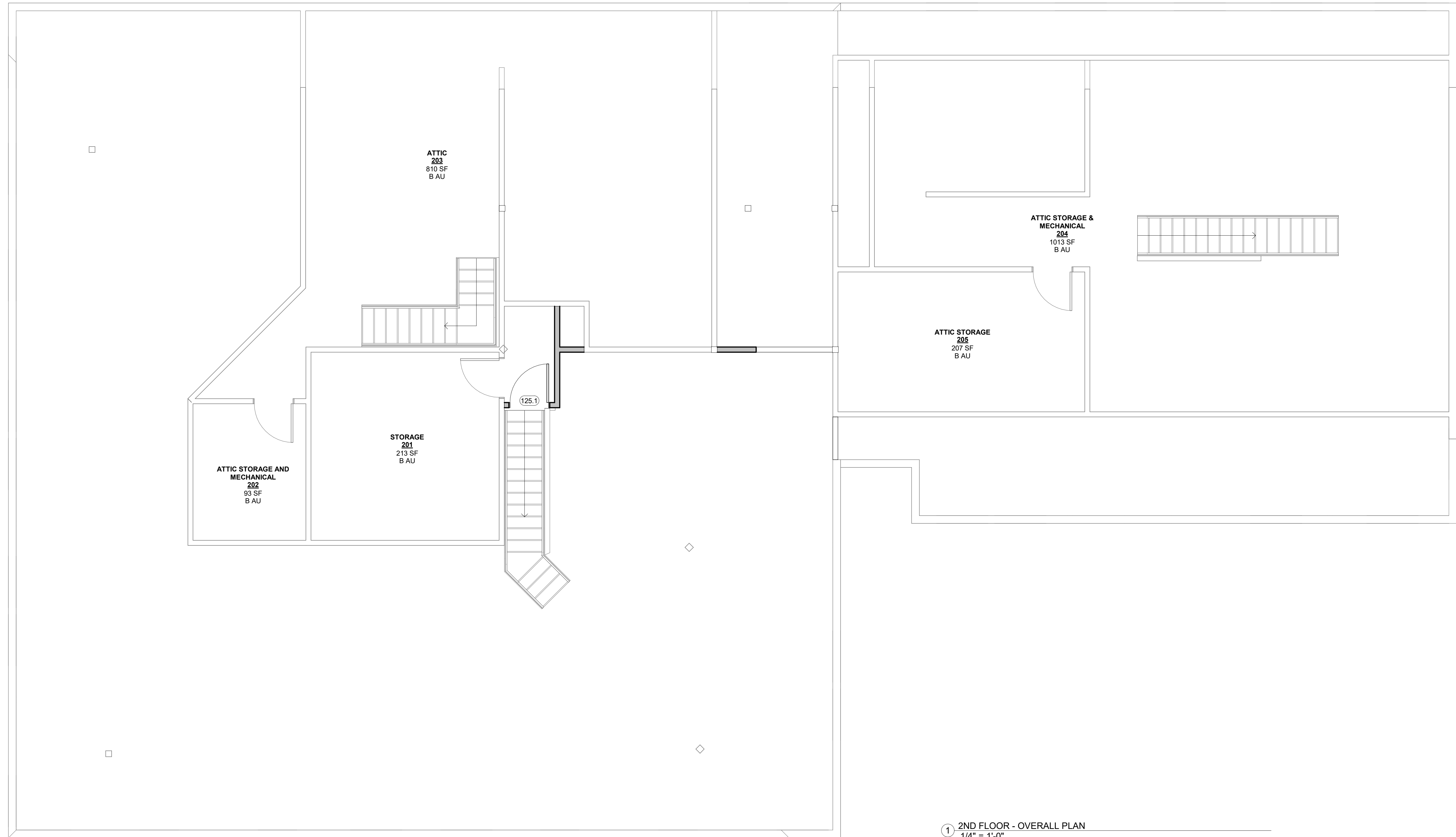
C. DOORS AND WINDOWS ARE MEASURED TO CENTERLINE OF OPENINGS. ALL JAMB WALLS ARE AT 45 DEGREES UNLESS NOTED OTHERWISE.

D. SET ANGLE AT HINGE SIDE OF:

E. EXTERIOR DOORS @ 4.5" U.N.O.
INTERIOR DOORS @ 4.5" U.N.O.

1. F. FORNUT USED AL INFORMATION REFER TO SHEET SPECIFICATION SECTIONS: 061000 ROUGH CARPENTRY, 065000 SHEATHING, 072000 THERMAL BARRIERS, 072500 WEATHER BARRIERS, AND 092000 GYPSUM BOARD.
2. NO SUBSTRATE ON INTERIOR SIDE OF CAVITIES, U.N.O.
3. INSTALL TILE BACKER BOARD OF VAPOR PERMEABLE WATER MEMBRANE AT SHOWER WALLS. SEAL ALL JOINTS WITH MANUFACTURES TAPE AND LATEX MODIFIED MORTAR.
4. INSTALL ACOUSTICAL BATT INSULATION.
5. WALL HEIGHT TO BE 4 1/2" WITH 1 1/2" BIRCH CAP.

① 2ND FLOOR - OVERALL PLAN
1/4" = 1'-0"



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Drawn By: AMR

Drawing Title:

SECOND FLOOR PLAN OVERALL

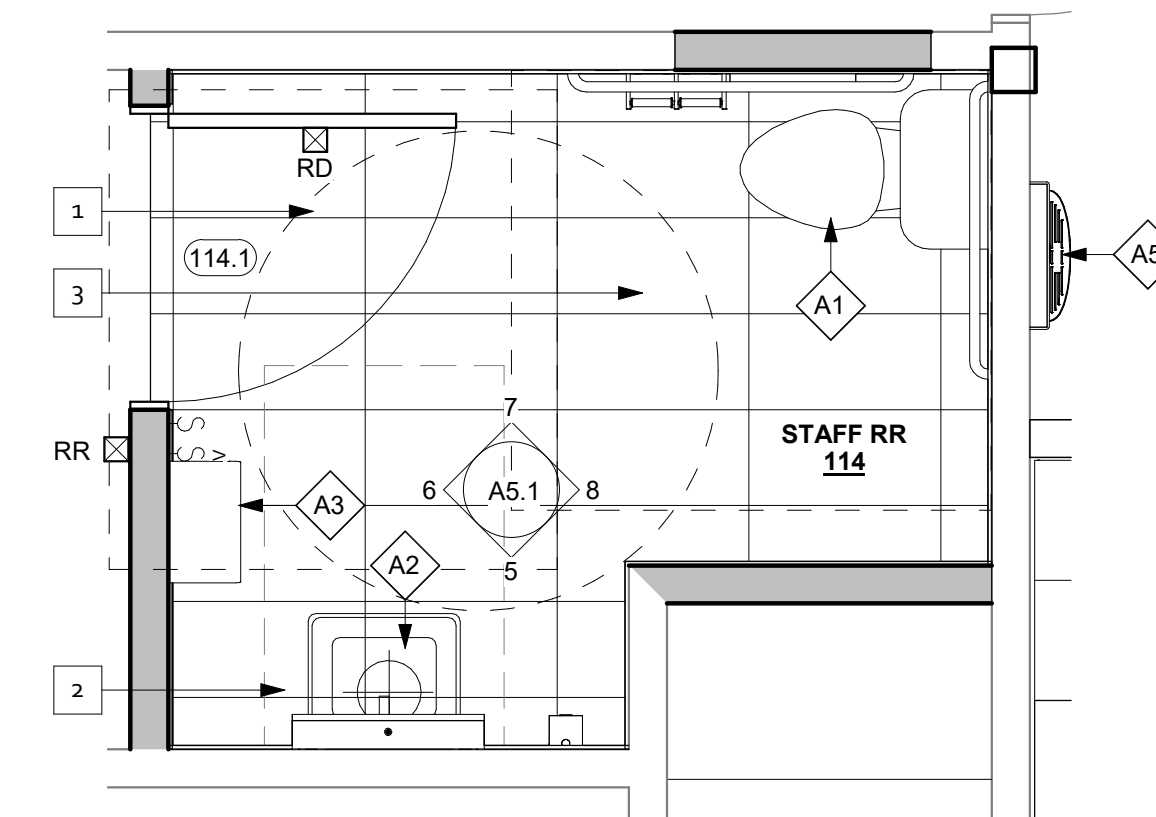
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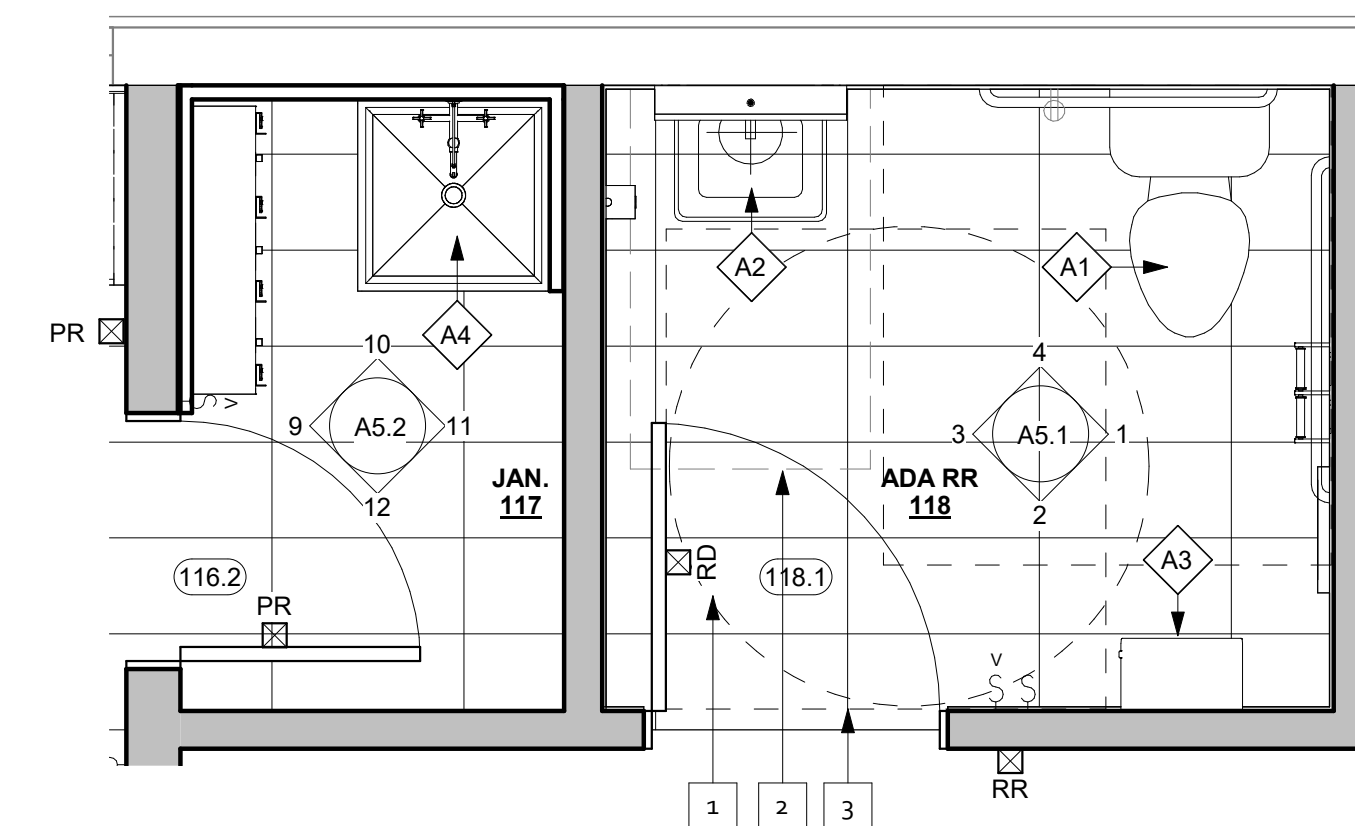
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SHEET NOTES:

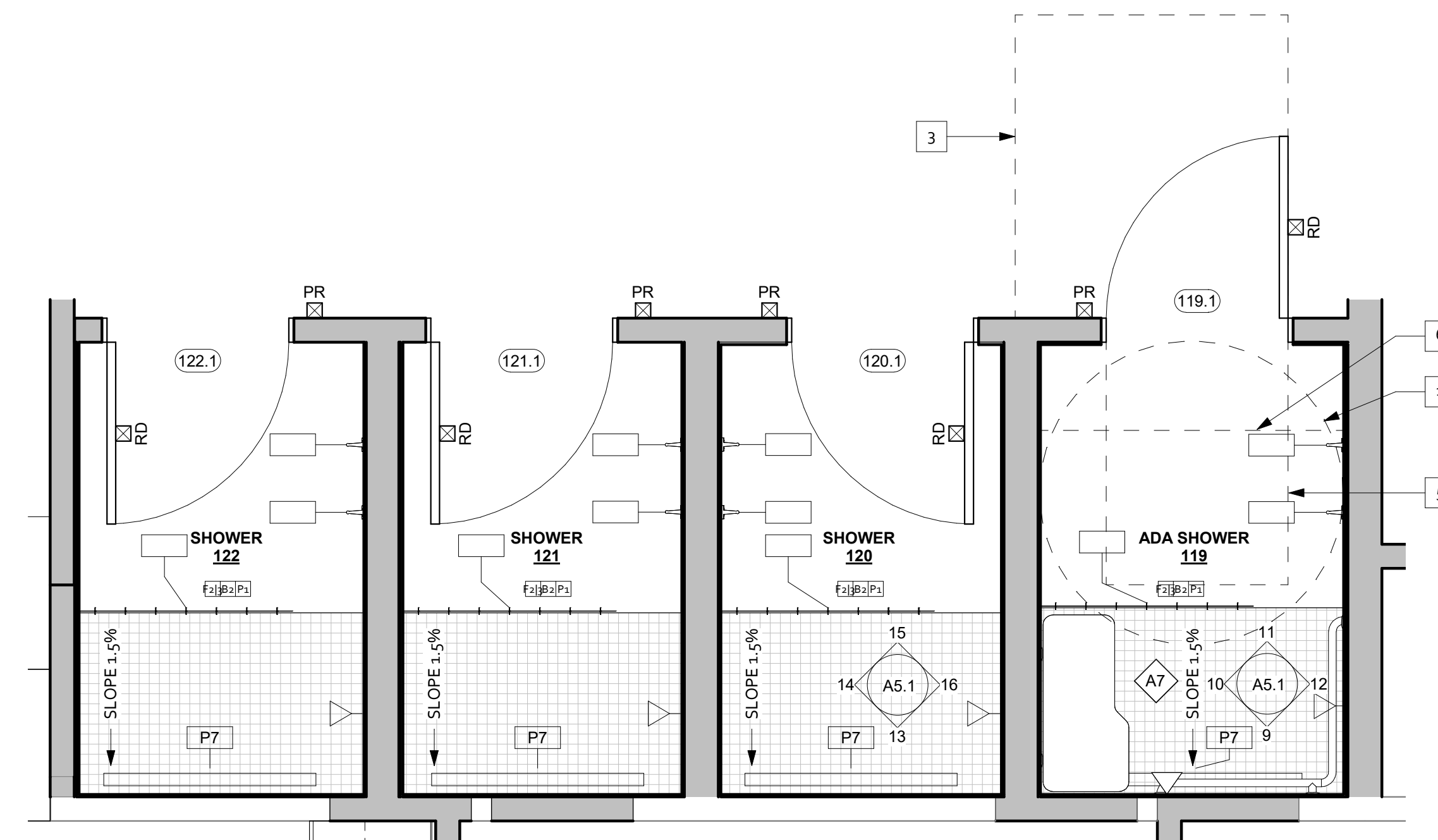
1. 60" TURNING RADIUS
2. 36" x 48" CLEAR SPACE CENTERED ON LAVATORY
3. 54" x 60" DOOR CLEARANCE
4. 56" x 60" WATER CLOSET CLEARANCE
5. 36" x 48" DOOR CLEARANCE
6. 36" x 60" SHOWER CLEARANCE



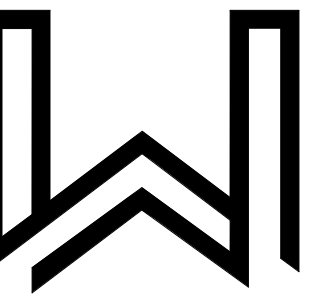
① 1ST FLOOR PLAN - STAFF RR
1/2" = 1'-0"



② 1ST FLOOR PLAN - ADA RR, TYP.
1/2" = 1'-0"



③ 1ST FLOOR PLAN - SHOWER, TYP.
1/2" = 1'-0"



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Scale: $1/2" = 1'-0"$

Drawn By: AMR

Drawing Title:

ENLARGED
PLANS

Drawing Number:

A2.5

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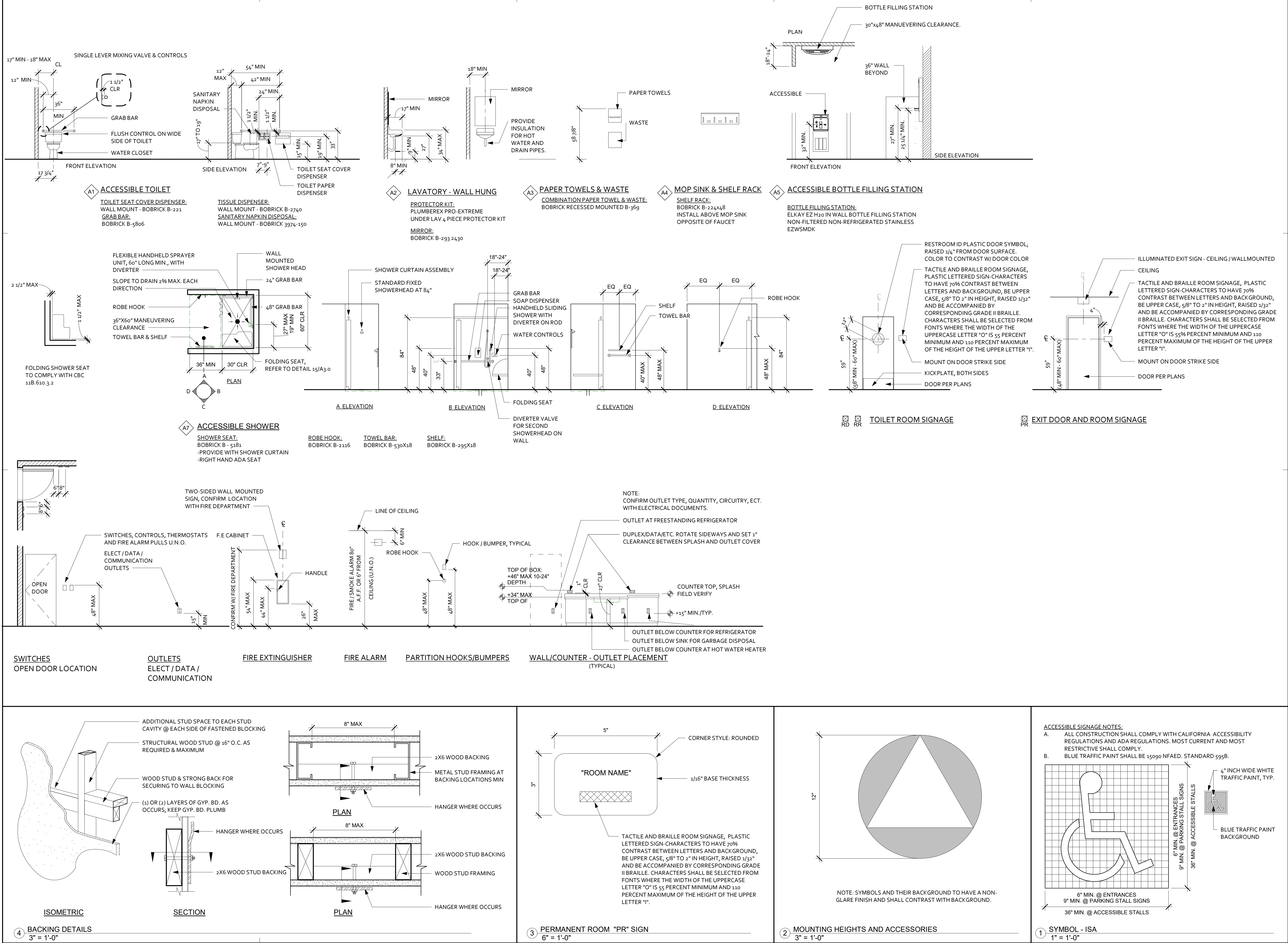
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Drawn By: RMW

MOUNTING HEIGHTS AND ACCESSORIES

A3.0

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LAZING TYPES

DOOR NOTES

EXISTING DOORS

A. INSTALL LEVER HARDWARE AT ALL EXISTING DOORS

A. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

B. FOR RESTROOM SIGNAGE REQUIREMENTS, REFER TO DETAIL 18/A.3.2

C. ALL DOORS AND HARDWARE SHALL BE INSTALLED IN STRICT COMPLIANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 24 (ACCESS CODE) AND THE FEDERAL AMERICANS WITH DISABILITIES ACT GUIDELINES (ADAAG).

D. EXIT DOORS SHALL BE ABLE TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KEY OR TOOL.

E. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 8 LBS. FOR INTERIOR DOORS, EXCEPT FIRE DOORS WHICH MAY HAVE A MAXIMUM EFFORT OF 15 LBS. APPLIED AT RIGHT ANGLES TO THE DOOR PER CBC 11333.8.2.2.

F. ALL HARDWARE SHALL BE LEVER TYPE OR PANIC TYPE MOUNTED AT HEIGHT INDICATED IN THE SPECIFICATIONS AND SHALL BE MOUNTED NOT LESS THAN 30", OR HIGHER THAN 44" ABOVE FINISHED FLOOR.

G. DOOR CLOSER SHALL BE ADJUSTED SUCH THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE A MINIMUM OF THREE SECONDS TO MOVE 3" FROM THE LATCH MEASURED FROM THE LEADING EDGE OF THE DOOR.

H. RATED DOORS CAN BE UNDERCUT A MAXIMUM OF 3/4" PER NFPA80 a.4.8.4.3, BUT SHALL BE 1/4" UNLESS APPROVED OTHERWISE.

I. RATED DOORS AND FRAMES SHALL BEAR AN APPROVED "S" RATED LABEL, PER CBC SECTION 1004.3.4.3.2.M, THE NAME OF THE MANUFACTURER AND THE IDENTIFICATION OF MATERIALS AND WORKMANSHIP AT THE FACTORY.

J. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

K. WHEN ADDITIONAL DOORS ARE PROVIDED FOR EGRESS PURPOSES, THEY SHALL COMPLY WITH ALL PROVISIONS OF CBC 1008.

L. RATED ASSEMBLIES SHALL HAVE TIGHT-FITTING SMOKE AND DRAFT CONTROL WHEN TESTED IN ACCORDANCE WITH CBC SECTION 715.

M. SAFETY GLAZING SHALL BE PROVIDED AS NOTED HEREIN, AND IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE SECTION 2406.

N. PROVIDE MINIMUM 16" SOLID KICKPLATE PANEL AT ALL HINGED DOORS U.N.O. PER SECTIONS 1004.8.1, TITLE 24.

DOOR HARDWARE

- (1) LEVER PRIVACY LOCK
- (1) DOOR STOP
- (3) 4 1/2 HINGES
- (1) GASKETING (HEAD AND JAMB)
- (1) CLOSURE

- (1) RIM MOUNTED EXIT DEVICE
- (1) PULL
- (1) CLOSER
- (3) 4 1/2 HINGES

1. NOT USED

1. NOT USED

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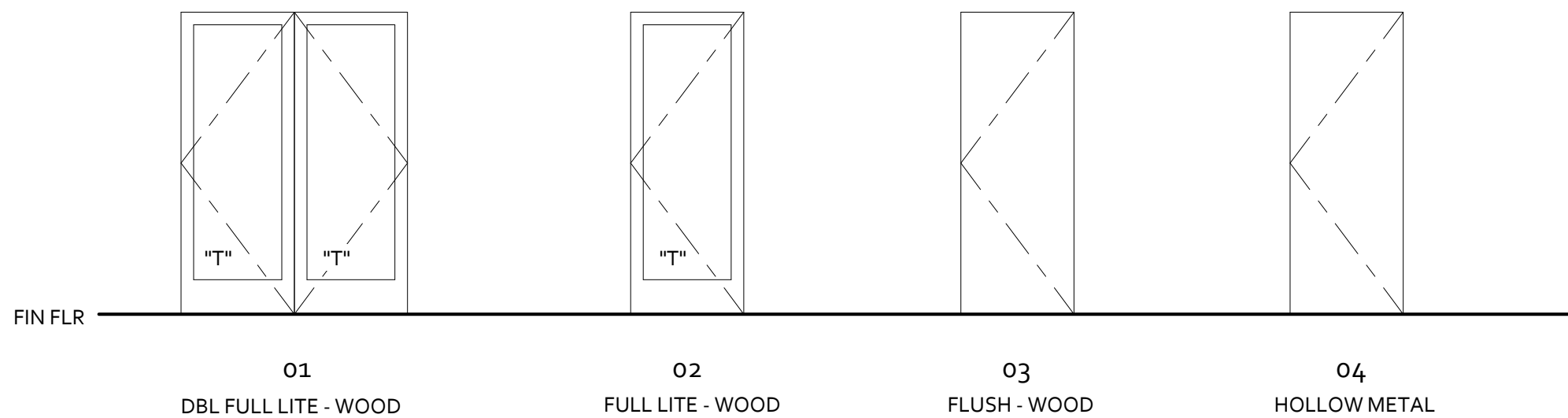
SCHEDULES

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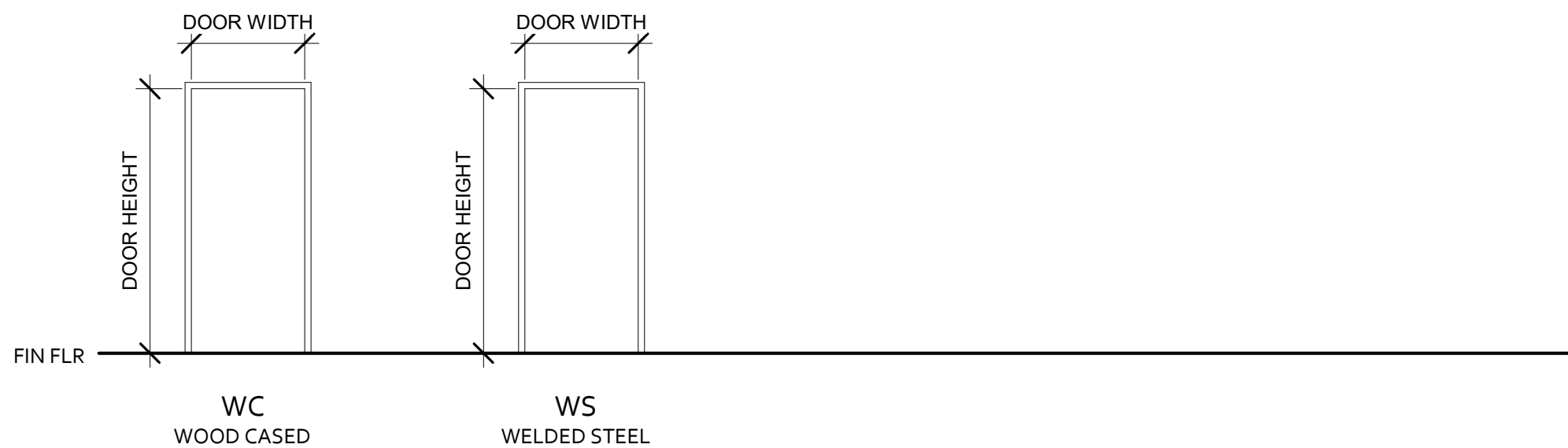
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DOOR TYPES



FRAME TYPES



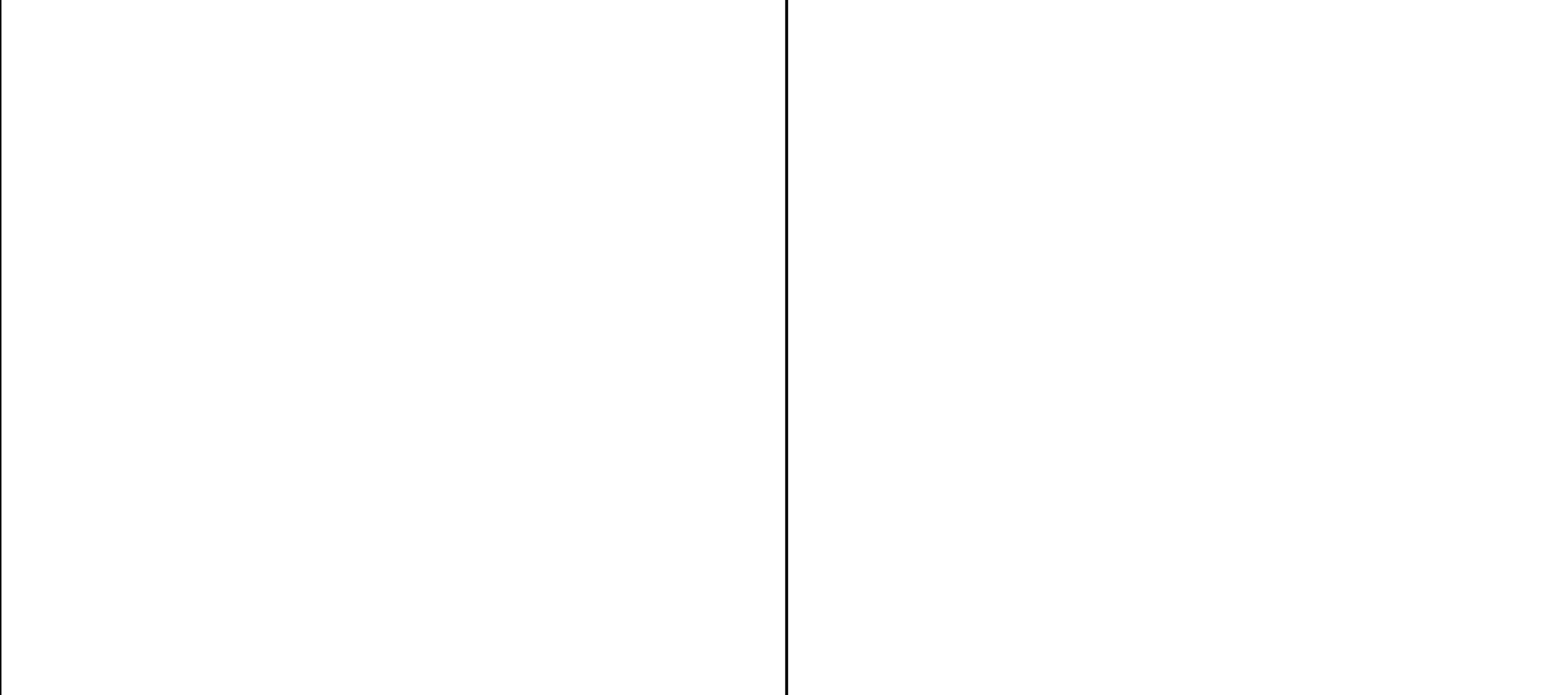
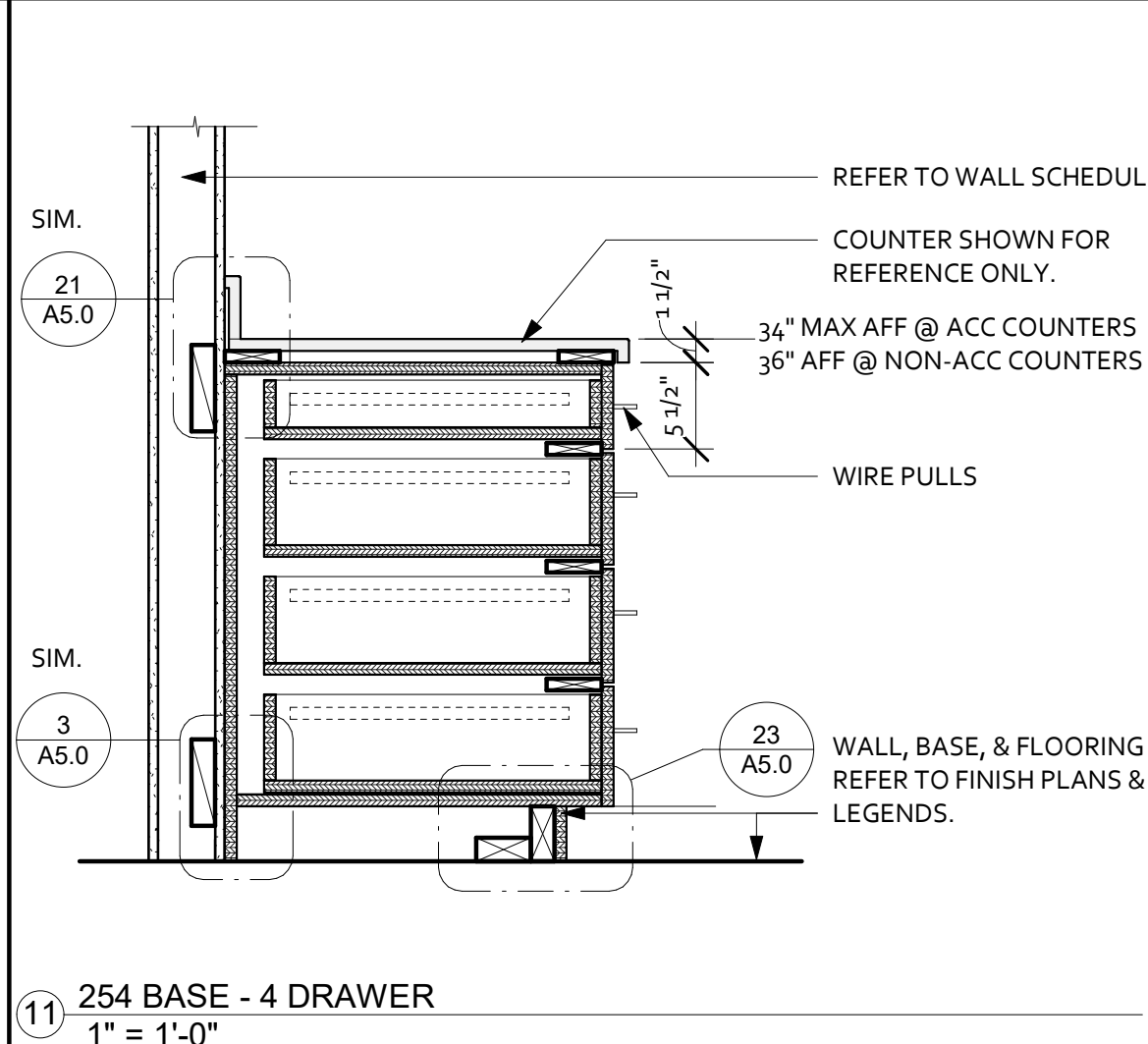
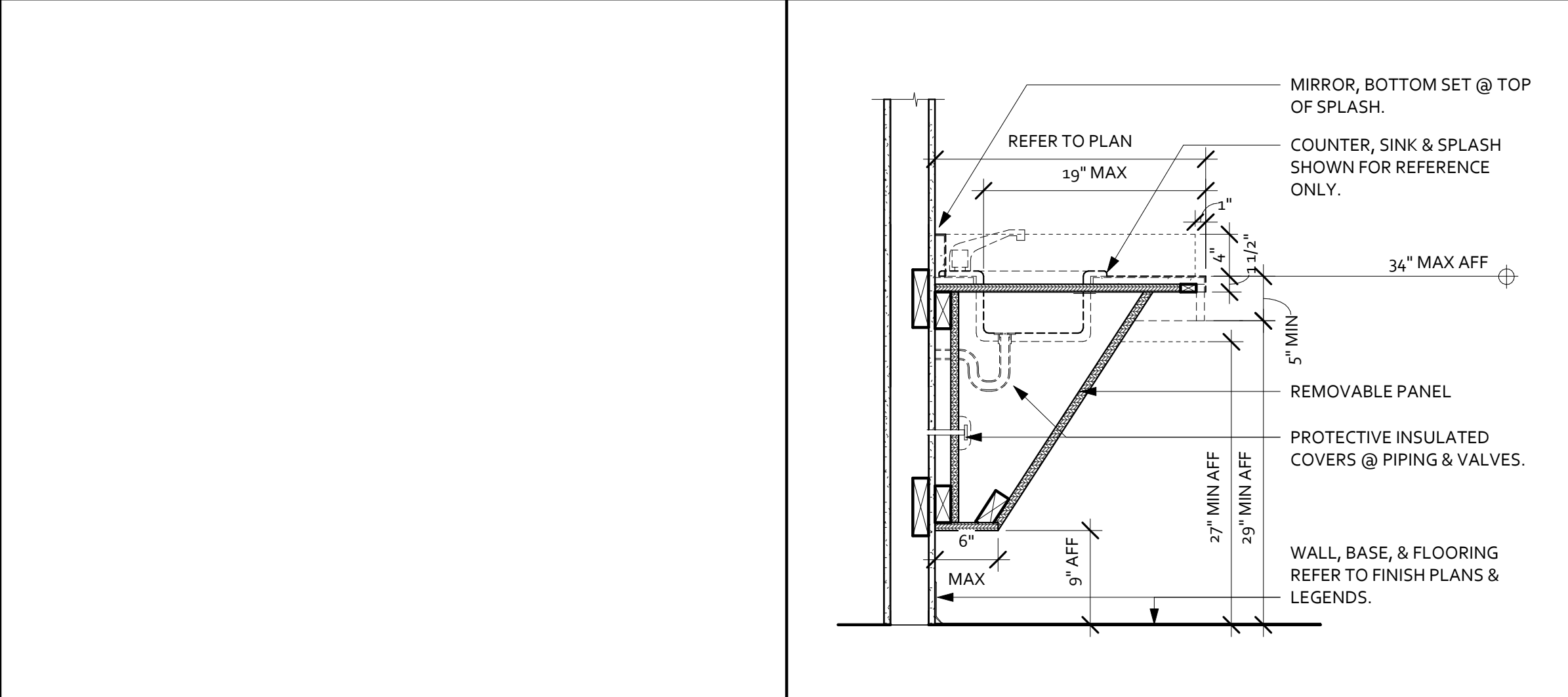
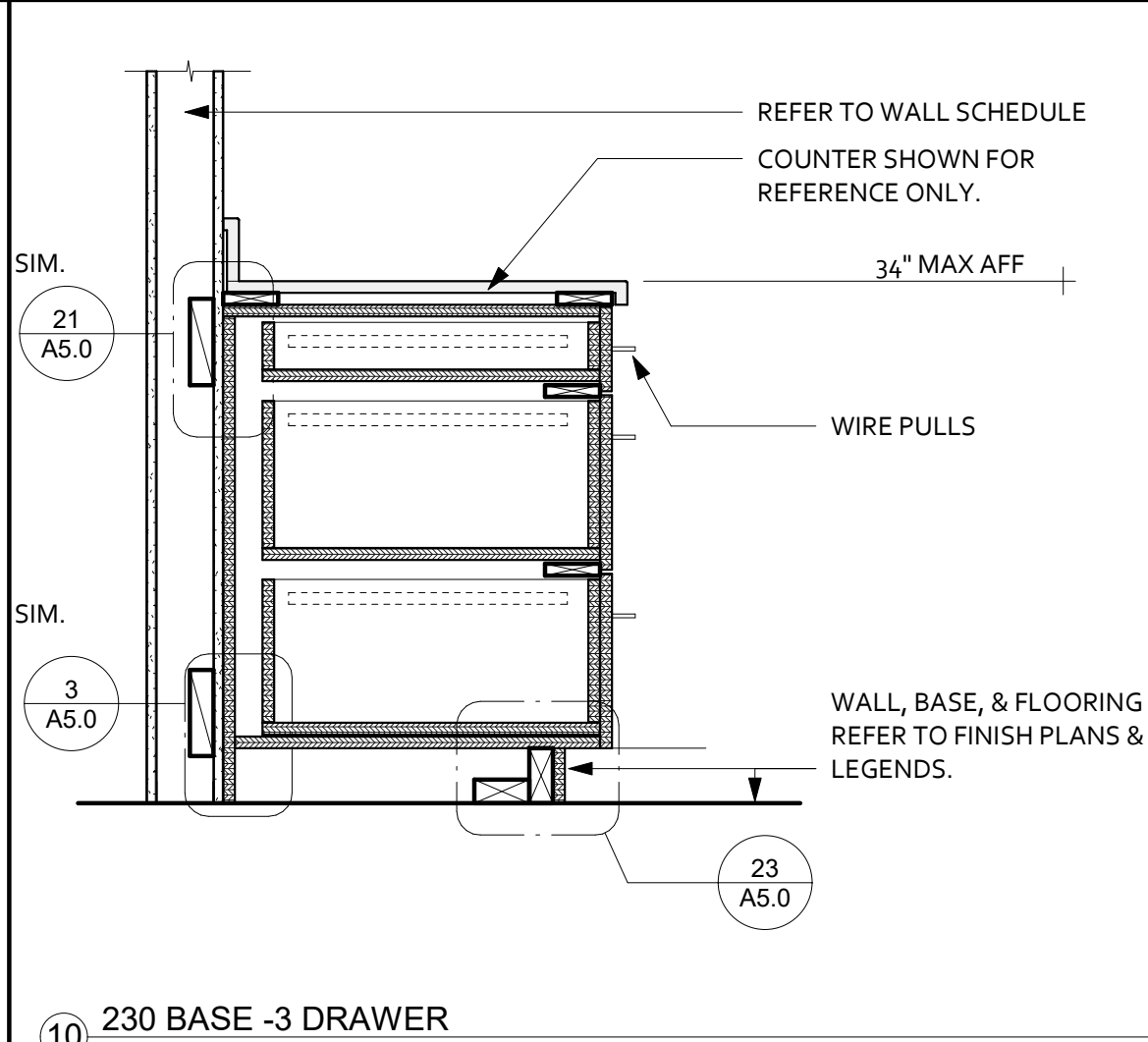
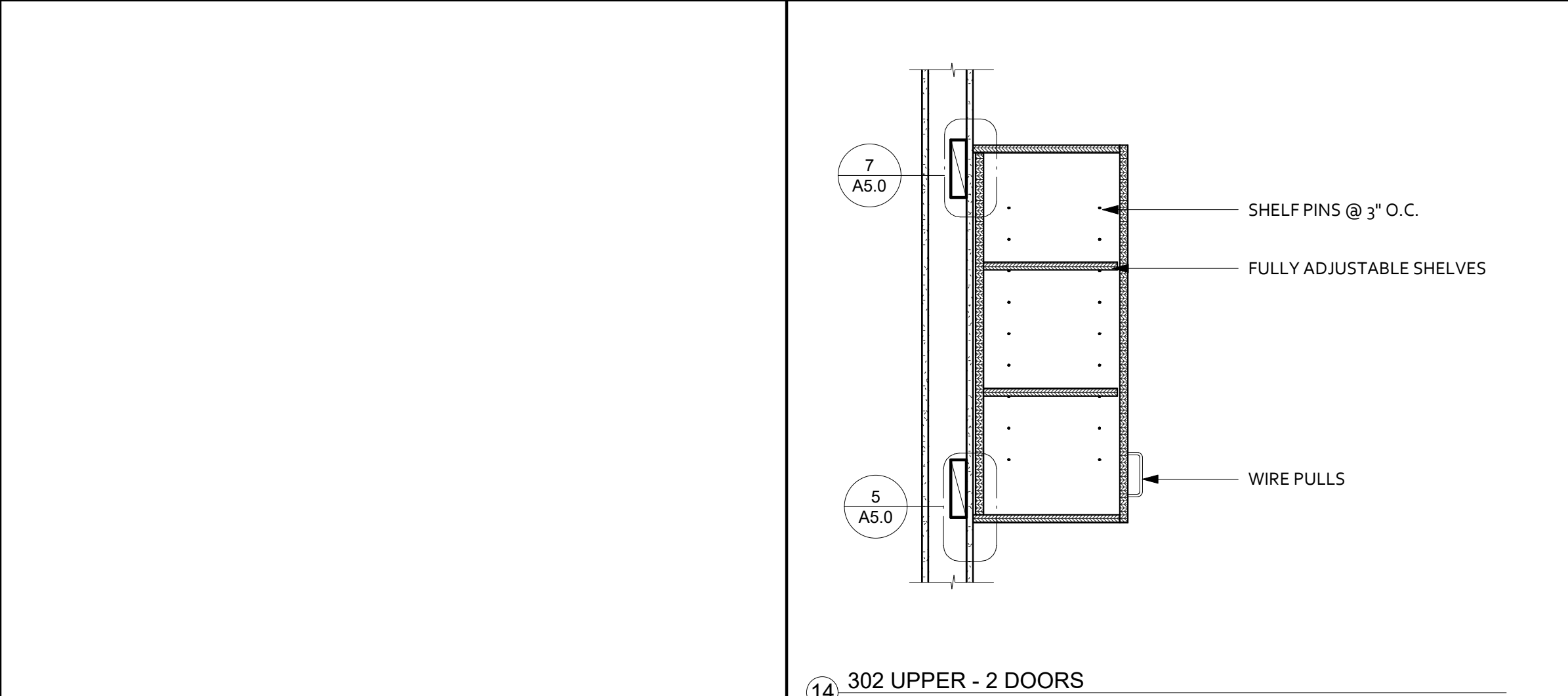
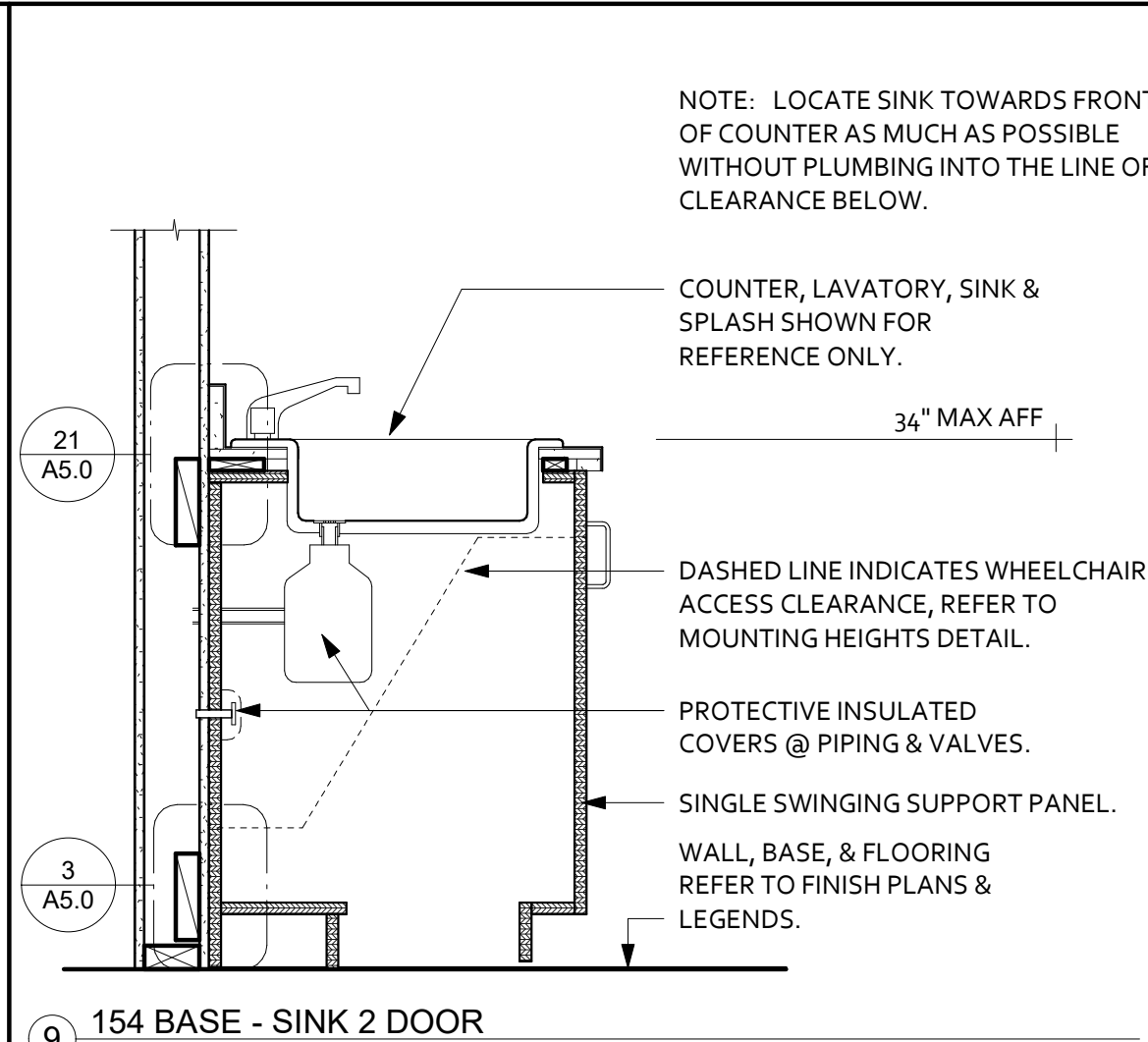
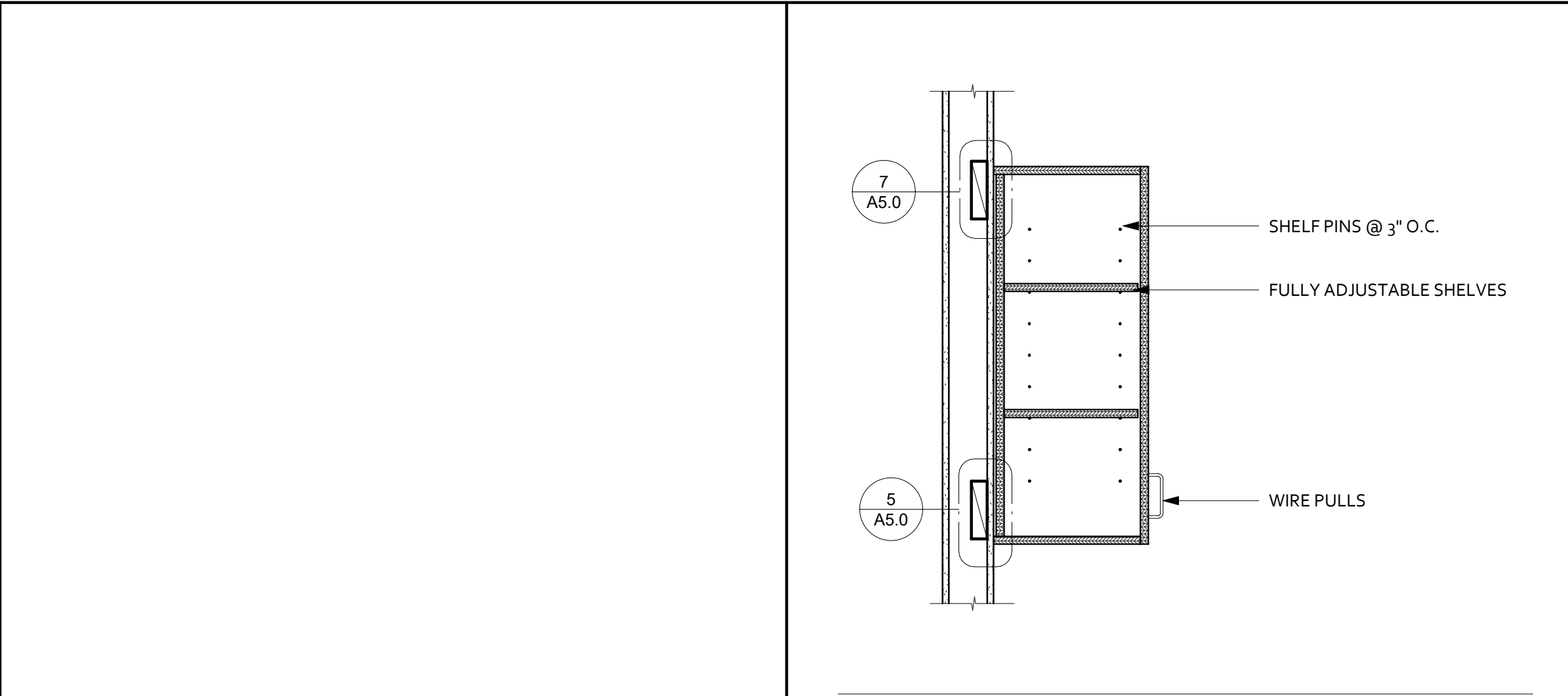


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① Section 1
1/4" = 1'-0"

② Section 2
1/4" = 1'-0"



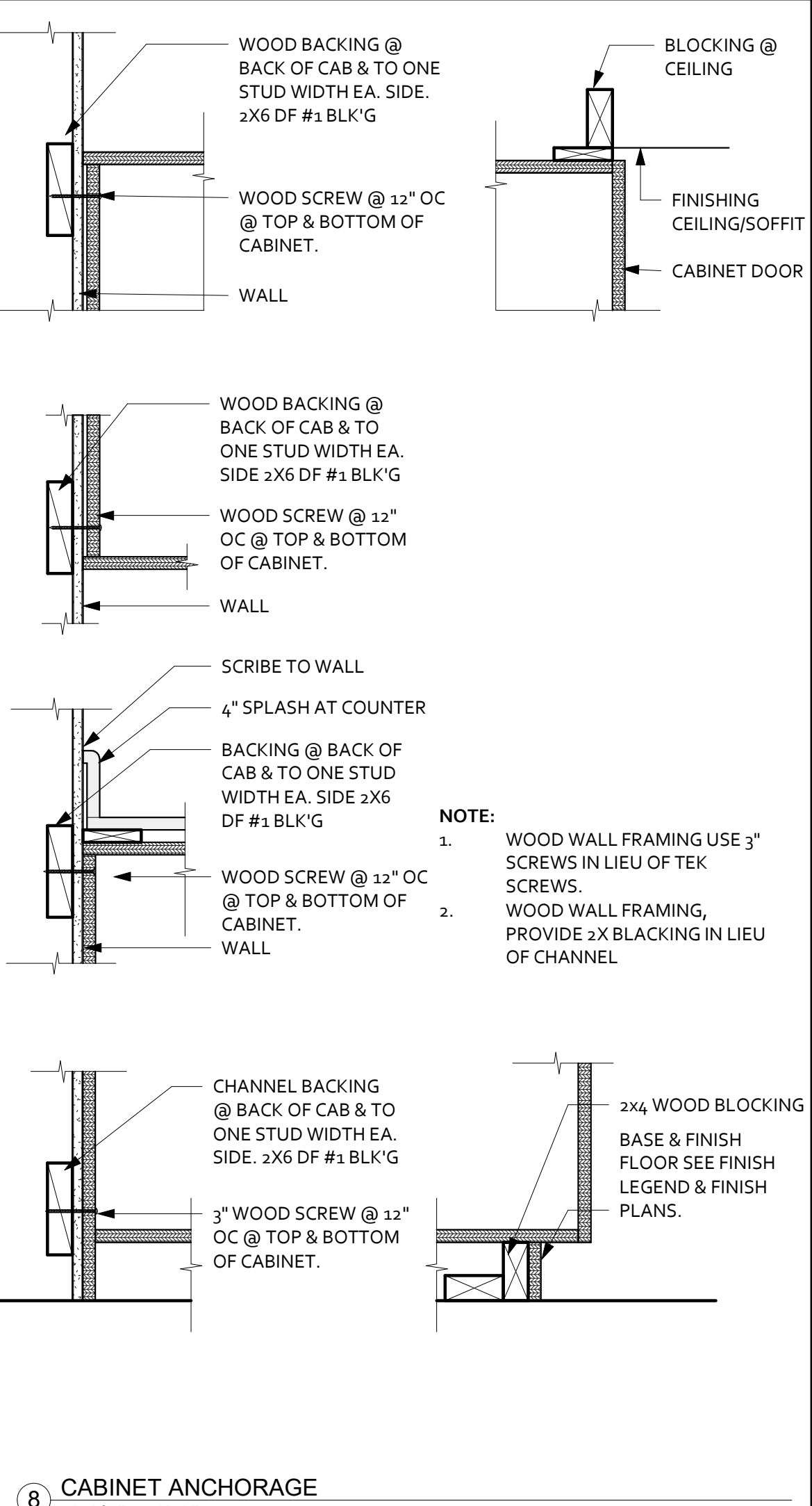
Schedule - Equipment				
Mark	Type	Manufacturer	Model	Schedule Note:
EQ1	Towel Dispenser-Automatic-Bobrick-ClassicSeries-3974-150	Owner selected, Contractor Installed	TBD	
EQ2	Waste-Receiptacle_Bobrick_B-277	Owner selected, Contractor Installed	TBD	
EQ3	Toilet Tissue Dispenser	Bobrick Washroom Equipment, Inc.	B-2740	
EQ4	Mirror Tilted	Owner selected, Contractor Installed	TBD	
EQ5	Grab Bar	Owner selected, Contractor Installed	TBD	
EQ6	Grab Bar	Owner selected, Contractor Installed	TBD	
EQ7	Laundry_-_Compact_Stacked_Washer Dryer_-_Whirlpool_21328	Kenmore	Model # 41162	
EQ8	Washer and Dryer Set - Front Load	Owner selected, Contractor Installed	TBD	
EQ9	Seat Cover Dispenser	Bobrick Washroom Equipment, Inc.	B-221	
EQ12	Metal_See_Through_Lockers-Salsbury_Industries-S_52000_Series-3_Wide_Units	Salsbury Industries	S-52365	2
EQ13	Soap-Dispenser_Bobrick_B-2012	Bobrick Washroom Equipment, Inc.	B-2012	
EQ14	Accessory_Shelf-Rag-Hook-Broom-Holder_Bobrick_B-224	Bobrick Washroom Equipment, Inc.	B-224	

EQUIPMENT NOTES

- (OPCI) OWNER PROVIDED, CONTRACTOR INSTALLED.

SCHEDULE NOTES:

- PROVIDE GARBAGE DISPOSAL W/ A PRESSURE SWITCH. FINISH OF SWITCH TO MATCH CABINET HARDWARE.
- QUANTITY 11 UNITS.



Schedule - Casework						
Mark	Description	Width	Height	Depth	CDS	Finish
1	Base Cabinet w/o Drawers	3' - 0"	2' - 8"	2' - 0"	154	L1
2	Wall Hung Cabinet	2' - 6"	3' - 0"	1' - 2"	302	L1
3	Wall Hung Cabinet	2' - 6"	3' - 0"	1' - 2"	302	L1
4	Base Cabinet w/ Drawers	1' - 10"	2' - 8"	2' - 0"	254	L1
5	Base Cabinet w/ Drawers	2' - 6"	2' - 8"	2' - 0"	212	
6	Base Cabinet w/ Drawers	2' - 6"	2' - 8"	2' - 0"	212	
7	Base Cabinet w/ Drawers	1' - 6"	2' - 8"	2' - 0"	254	L1
8	Base Cabinet w/o Drawers	3' - 0"	2' - 8"	2' - 0"	154	L1
9	Wall Hung Cabinet	3' - 0"	3' - 0"	1' - 2"	302	L1
10	Wall Hung Cabinet	3' - 0"	3' - 0"	1' - 2"	302	L1
11	Base Cabinet w/ Drawers	3' - 0"	2' - 8"	2' - 0"	212	
12	Base Cabinet w/o Drawers	3' - 0"	2' - 8"	2' - 0"	142	
16	Base Cabinet w/ Drawers	1' - 6"	2' - 8"	2' - 0"	254	L1
17	Base Cabinet w/ Drawers	3' - 0"	2' - 8"	2' - 0"	212	
18	Base Cabinet w/ Drawers	1' - 6"	2' - 8"	2' - 0"	254	L1
19	Tall Storage Cabinet	4' - 0"	7' - 0"	2' - 0"	439 NO DOOR S - mail slot	
20	Tall Storage Cabinet	4' - 0"	7' - 0"	2' - 0"	444 package slot	

B. CASEWORK

- REFER TO ARCHITECTURAL WOODWORK STANDARDS CASEWORK DESIGN SERIES (CDS) FOR ADDITIONAL INFORMATION.
- FIELD VERIFY ROUGH OPENING DIMENSION PRIOR TO FABRICATING CASEWORK. REVIEW ANY REQUIRED ADJUSTMENTS TO HEIGHT, DEPTH OR WIDTH OF CASEWORK UNITS WITH ARCHITECT.
- REFER TO CASEWORK DETAILS SHEET FOR FURTHER INFORMATION.

SCHEDULE NOTES:

- INSTALL GARBAGE DISPOSAL PRESSURE SWITCH WITHIN ACCESSIBLE REACH RANGE. MOUNT DISPOSAL AT REAR OF SINK TO ALLOW FOR REQUIRED NEW CLEARANCE. REFER TO DETAIL 9/A5.0.

LEGEND

- 11

FOR INTERIOR WINDOW TYPES REFER TO SCHEDULE ON SHEET A3.1.
- 101

FOR INTERIOR DOOR TYPES REFER TO SCHEDULE ON SHEET A3.1.
- FOR FINISHES REFER TO SCHEDULE ON SHEET A2.2. AND A2.3.
- EQ

FOR EQUIPMENT REFER TO SCHEDULE.
- CW 01

← CASEWORK MARK - REFER TO CASEWORK SCHEDULE
- 100

← CDC SERIES NUMBER, WOODWORK INSTITUTE MANUAL
- 30° 24° 36°

← CABINET SIZE (WIDTH, HEIGHT, DEPTH)

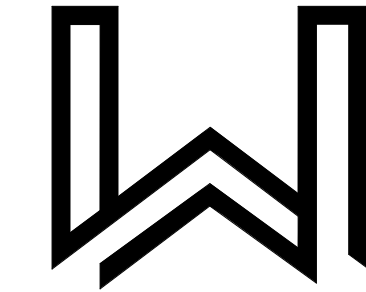
GENERAL NOTES

- A. REFER TO ARCHITECTURAL WOODWORK STANDARDS CASEWORK DESIGN SERIES (CDS) FOR ADDITIONAL INFORMATION.
- B. FIELD VERIFY ROUGH OPENING DIMENSION PRIOR TO FABRICATING CASEWORK. REVIEW ANY REQUIRED ADJUSTMENTS TO HEIGHT, DEPTH OR WIDTH OF CASEWORK UNITS WITH ARCHITECT.
- C. REFER TO CASEWORK DETAILS SHEET A9.0 FOR FURTHER INFORMATION.
- D. OPERABLE PARTS SHALL BE WITHIN A 48 INCH MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE 10-INCHES OR LESS AND AT 46 INCHES MAXIMUM HEIGHT REACH WHEN OBSTRUCTIONS ARE BETWEEN 10-24 INCHES.
- E. PROVIDE LOCKS ON CABINET DOORS

SHEET NOTES

1. SHEET NOTE

KEYNOTES



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Description										
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Date: 05/30/2023

Scale: As indicated

Drawn By: AMR

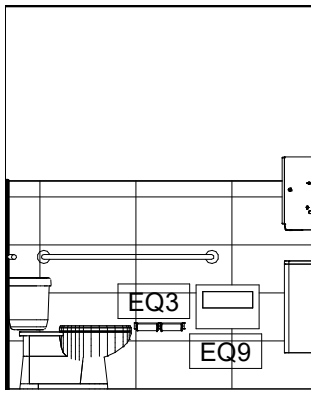
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INTERIOR
ELEVATIONS

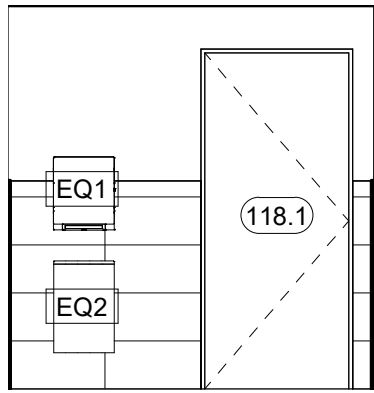
Drawing Number:

A5.1

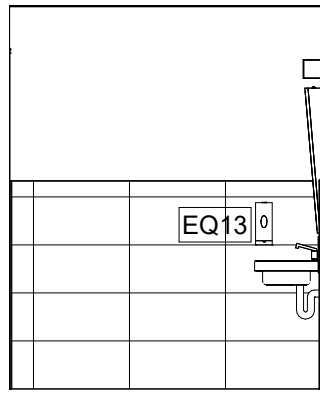
7/28/2023 11:30:13 AM



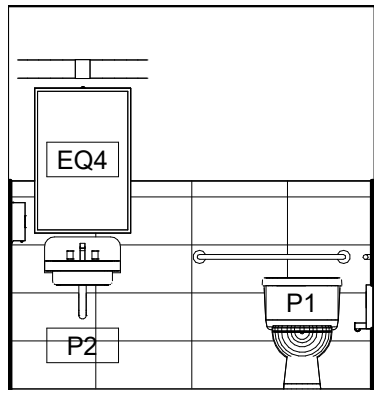
1 ADA RR - ELEVATION 'A'
1/4" = 1'-0"



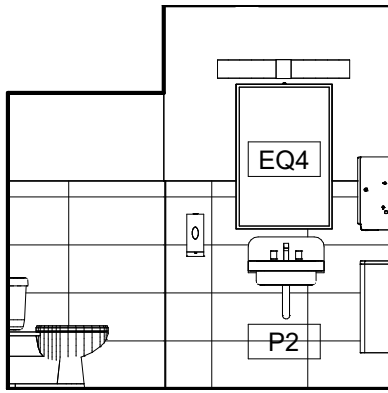
2 ADA RR - ELEVATION 'B'
1/4" = 1'-0"



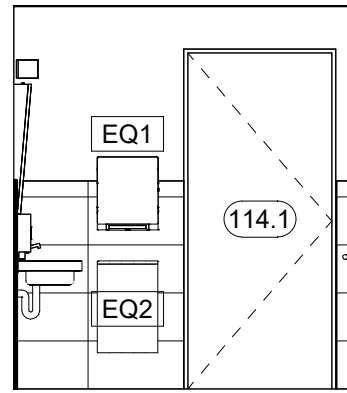
3 ADA RR - ELEVATION 'C'
1/4" = 1'-0"



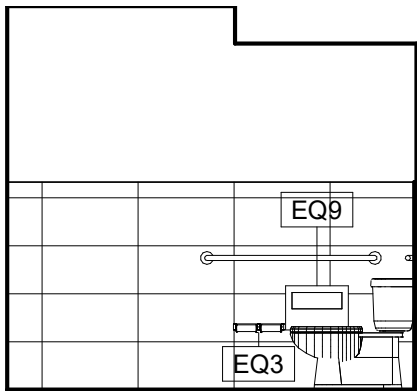
4 ADA RR - ELEVATION 'D'
1/4" = 1'-0"



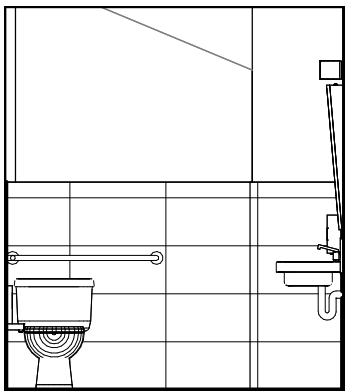
5 STAFF RR - ELEVATION 'A'
1/4" = 1'-0"



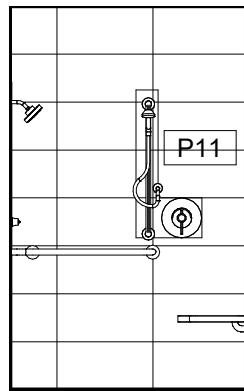
6 STAFF RR - ELEVATION 'B'
1/4" = 1'-0"



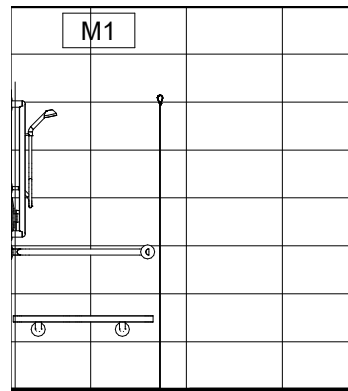
7 STAFF RR - ELEVATION 'C'
1/4" = 1'-0"



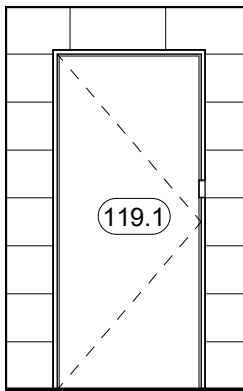
8 STAFF RR - ELEVATION 'D'
1/4" = 1'-0"



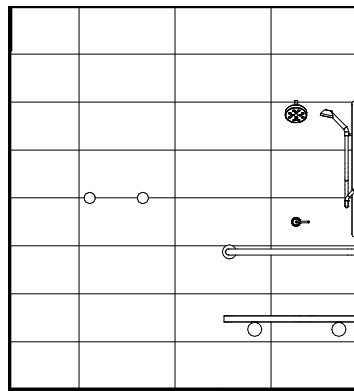
9 SHOWER, ADA - ELEVATION 'A'
1/4" = 1'-0"



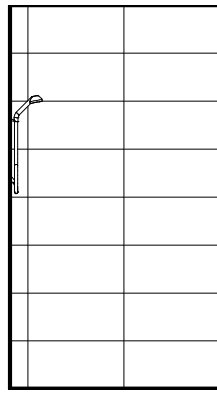
10 SHOWER, ADA - ELEVATION 'B'
1/4" = 1'-0"



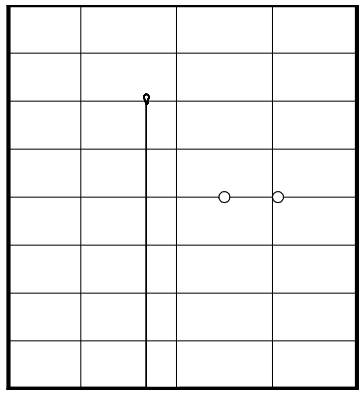
11 SHOWER, ADA - ELEVATION 'C'
1/4" = 1'-0"



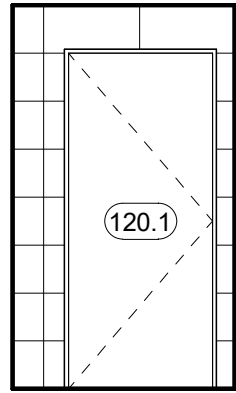
12 SHOWER, ADA - ELEVATION 'D'
1/4" = 1'-0"



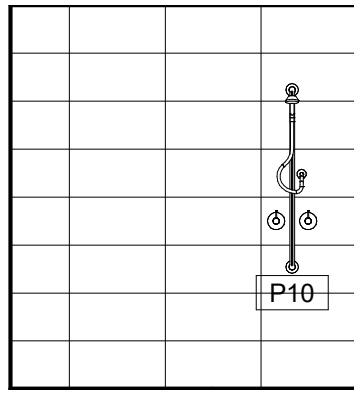
13 SHOWER, TYP. - ELEVATION 'A'
1/4" = 1'-0"



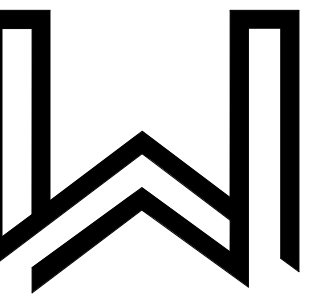
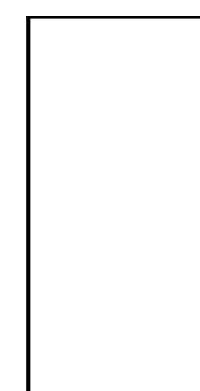
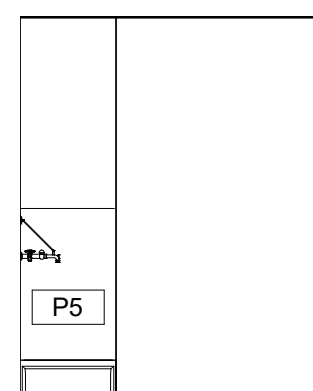
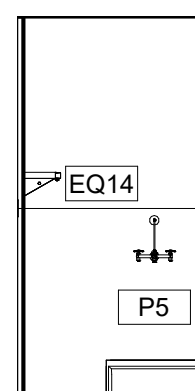
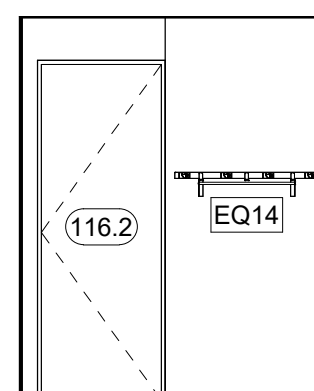
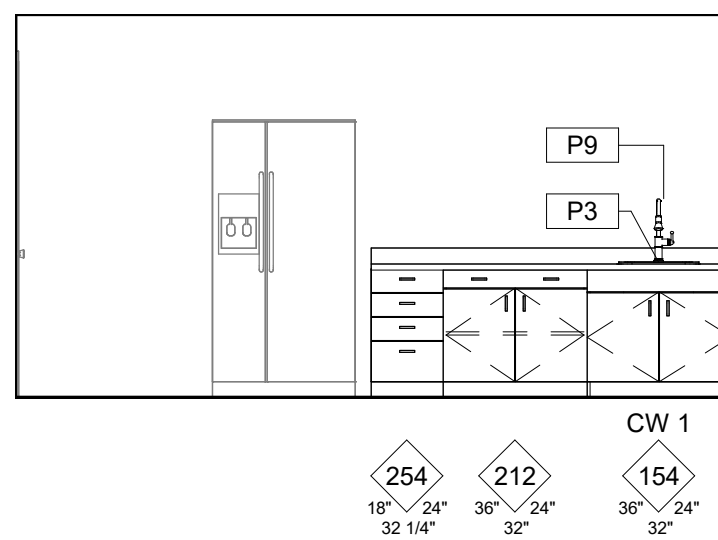
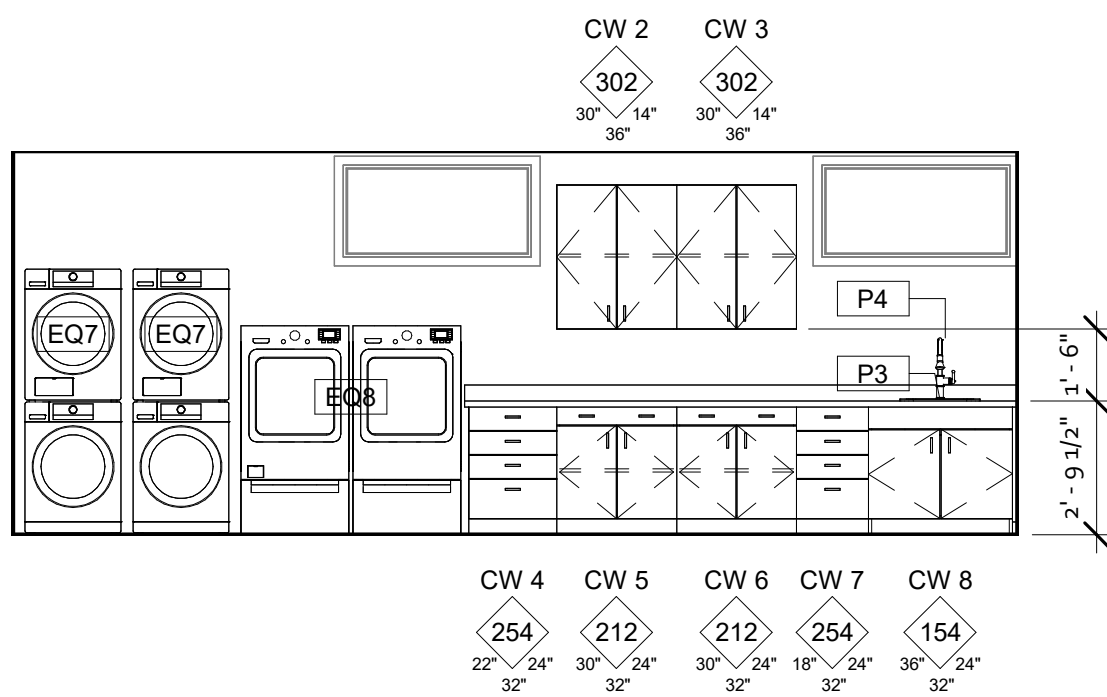
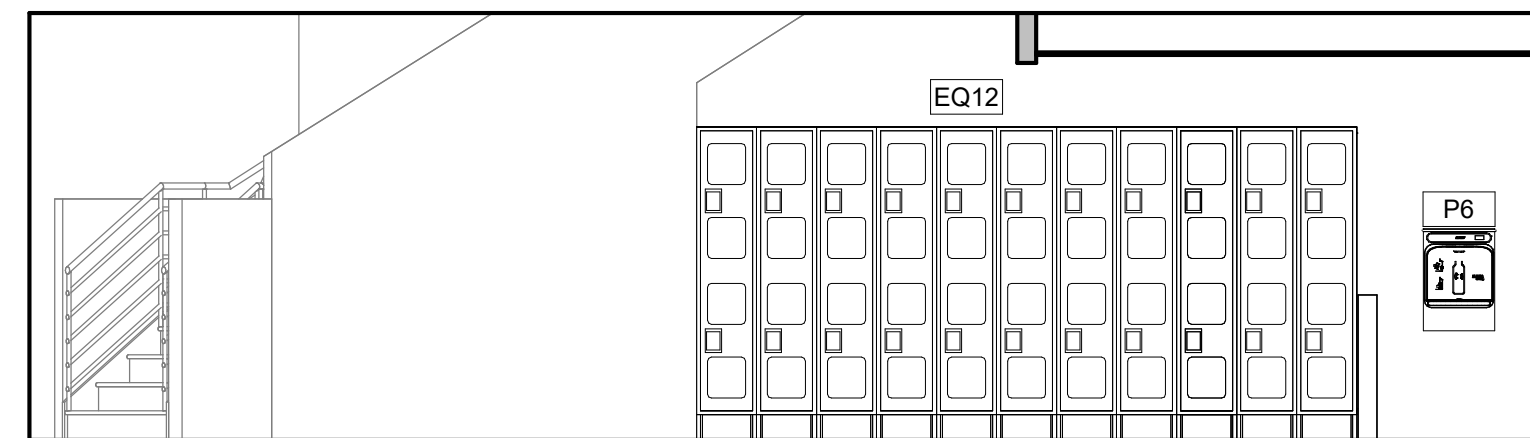
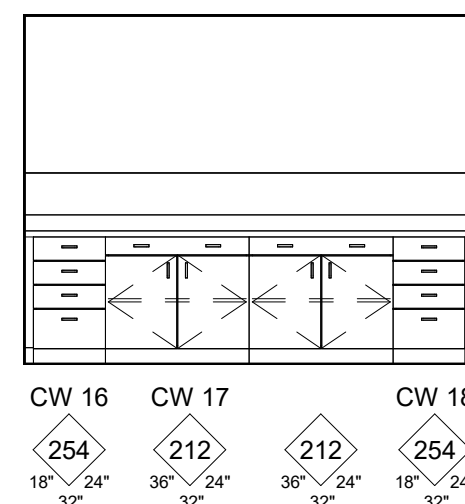
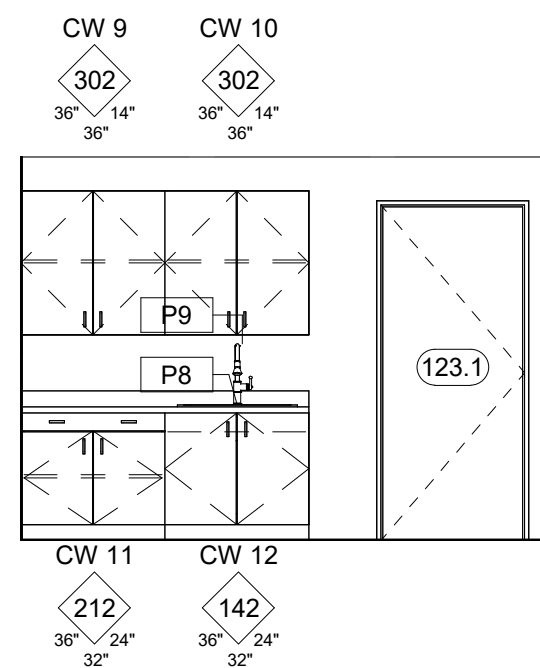
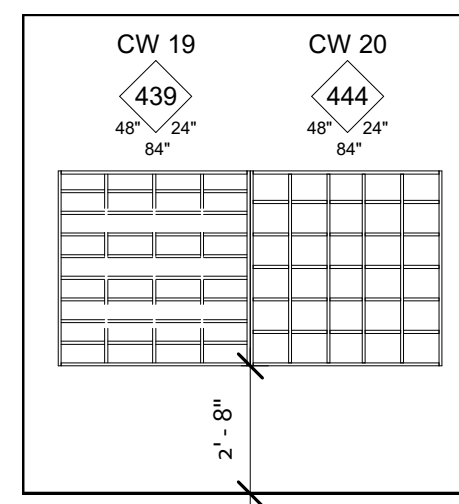
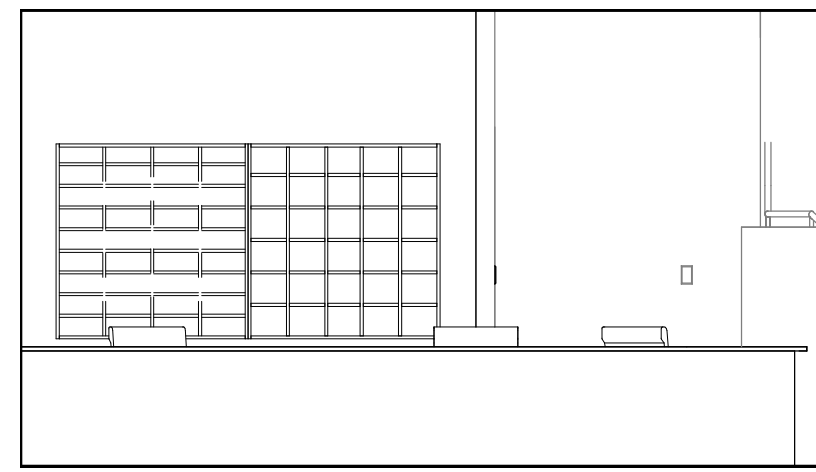
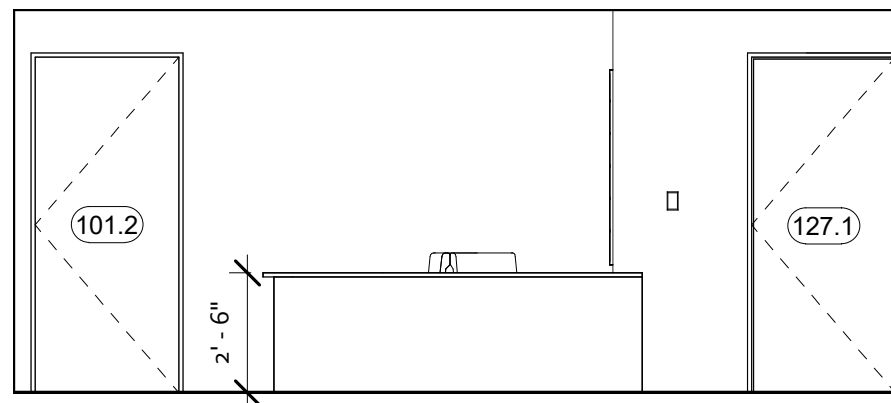
14 SHOWER, TYP. - ELEVATION 'B'
1/4" = 1'-0"



15 SHOWER, TYP. - ELEVATION 'C'
1/4" = 1'-0"



16 SHOWER, TYP. - ELEVATION 'D'
1/4" = 1'-0"



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proj. No.: 2022011

Date: 05/30/2023

cale: $1/4'' = 1'-0''$

Drawn By: AMR

Drawing Title:

INTERIOR ELEVATIONS

Drawing Number:

A5.2

	(N) GYPSUM BOARD CEILING, TYPICAL
	(E) CEILING LOCATION
	ACOUSTICAL CEILING LOCATION
	ILLUMINATED EXIT SIGN, BATTERY BACK-UP TYPICAL
	JOIST FRAMING DIRECTION
	EMERGENCY EGRESS LIGHTING, CEILING MOUNTED
	LIGHT FIXTURE - DOWNLIGHT - RECESSED IN CEILING
	2x4 TROFFER LIGHT
	1x4 TROFFER LIGHT
	RECESSED - EXHAUST FAN/LIGHT COMBO

CSS-1	ACOUSTICAL CEILING GRID ASSEMBLY, TYPICAL MSF: ARMSTRONG TYPE: PRELUDE 15/16
AP-1	ACOUSTICAL CEILING TILE, TYPICAL MSF: ARMSTRONG STYLE: DUNE 15/16 ANGLED TEGULAR LAY IN SIZE: 2'X2'X5/8"
P4	PAINTED, TYPICAL

- A. LAYOUT OF SUSPENDED FIXTURES & RECESSED FIXTURES, REFER TO ELECTRICAL DOCUMENTS.
- B. RECESSED CAN LIGHT FIXTURES SHALL BE ARRANGED AS INDICATED ON ARCHITECTURAL DOCUMENTS.
- C. ILLUMINATED EXIT SIGNS SHALL BE CENTERED ABOVE DOOR OPENINGS, UNO.
- D. EXIT ROUTE SIGNAGE SHALL BE WALL MOUNTED ADJACENT TO DOOR AND/OR PASSAGE WAY OPENING AT ALL LOCATIONS PROVIDED WITH AN ILLUMINATED EXIT SIGN.
- E. ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATED FIXTURE AND DIFFUSER LOCATIONS, ALL CONFLICTS SHALL BE REVIEWED BY ARCHITECT.
- F. ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATED FIXTURE AND DIFFUSER LOCATIONS WITH SPRINKLER HEAD LOCATIONS, ALL CONFLICTS SHALL BE REVIEWED BY ARCHITECT.
- G. ACOUSTICAL TILE CEILING LAYOUT SHALL BE COORDINATED WITH SUSPENDED INDIRECT/DIRECT LIGHTING FIXTURES.
- H. VERTICAL MEMBERS OF SOFFITS SHALL BE PAINTED THE SAME COLOR AS HORIZONTAL SURFACE, UNO.
- I. AT NEW CEILING LOCATION CENTER T-GRID WITHIN ROOMS, UNO.
- J. EXIT SIGNS, REFER TO EXITING PLANS AND ELECTRICAL DOCUMENTS.
- K. PAINT ALL GYPSUM BOARD CEILINGS P4, UNO.
- L. TYPICAL ACOUSTICAL CEILING HEIGHT IS 30'-0" AFF, UNO.
- M. TYPICAL GYPSUM BOARD CEILING HEIGHT IS 9'-0" AFF, UNO.
- N. SUSPENDED T-BAR CEILING AREA NOT TO EXCEED 2,500 SF WITHOUT AN EXPANSION JOINT. JOINT LOCATION TO BE DETERMINE BY CPNTRACTOR IN FIELD. SEE DETAILS

1. NOT USED

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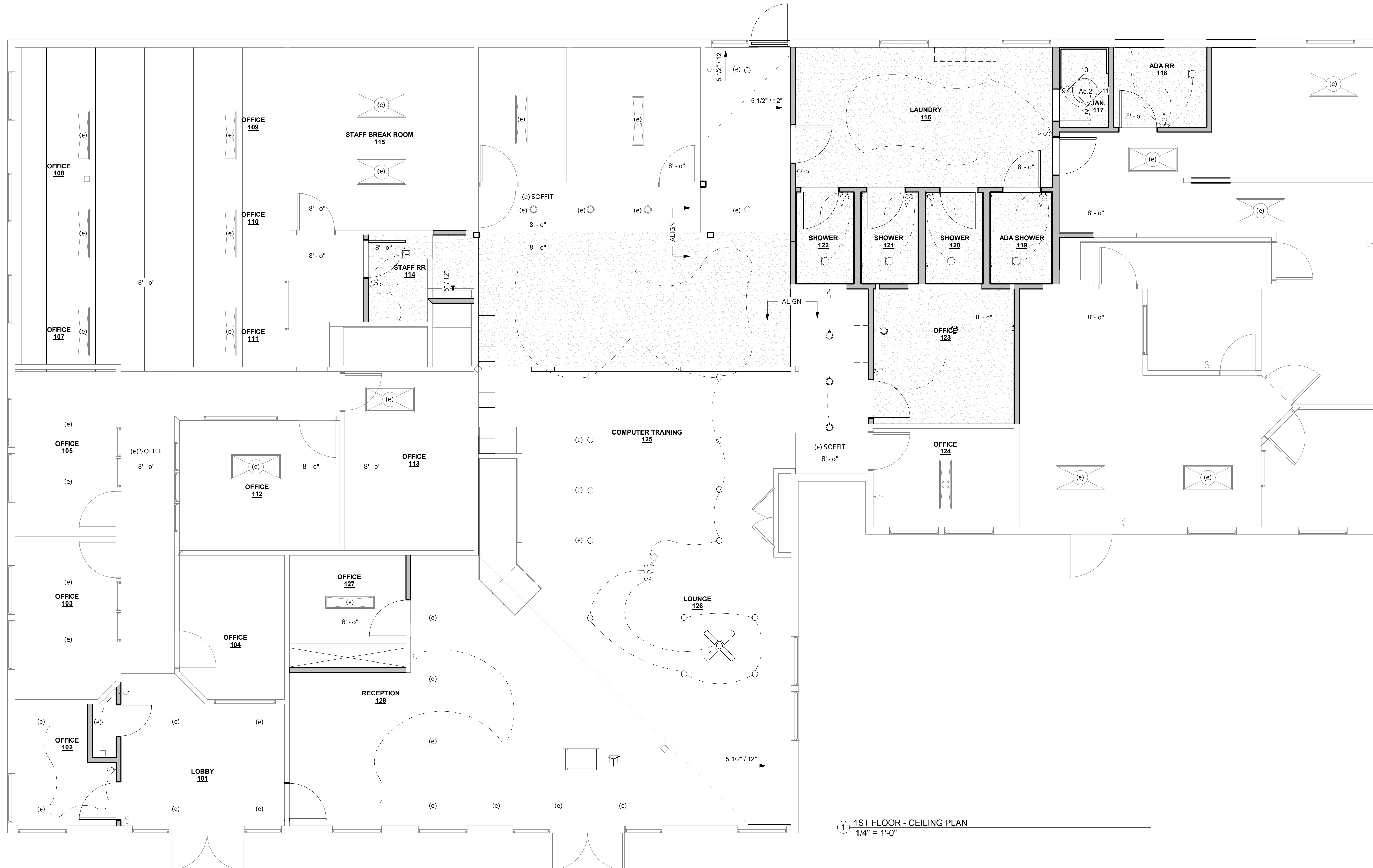
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Drawing Title:

REFLECTED
CEILING PLAN

A6.1



1 1ST FLOOR - CEILING PLAN
1/4" = 1'-0"



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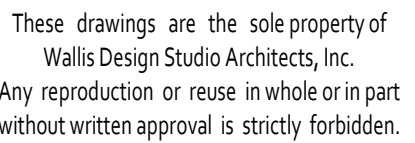
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DOCUMENTS

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Proj. No.: 2022011

Date: 05/30/2023

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Drawn By: AMR

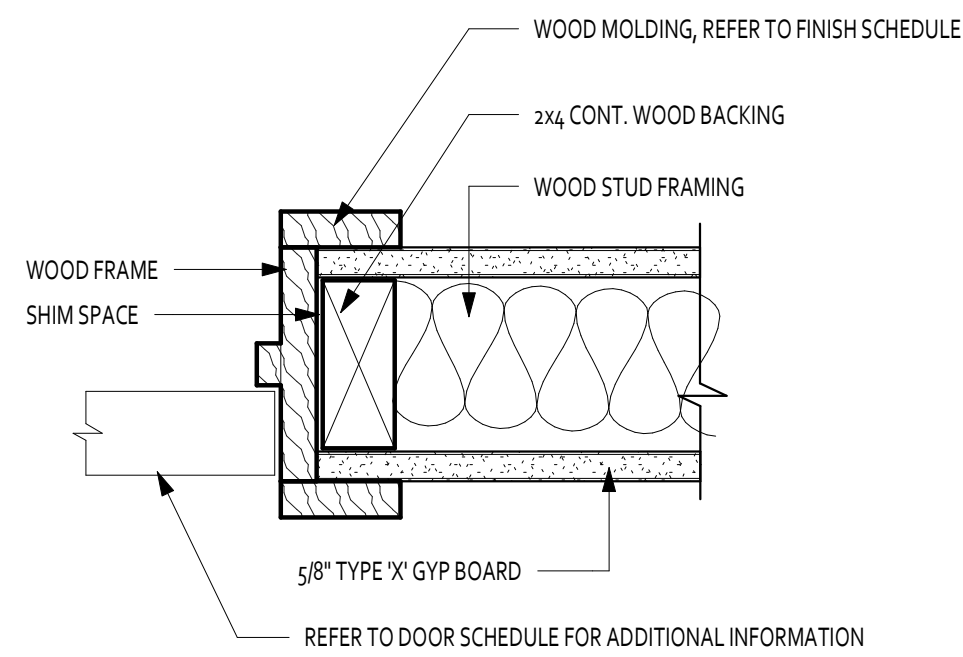
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INTERIOR DETAILS

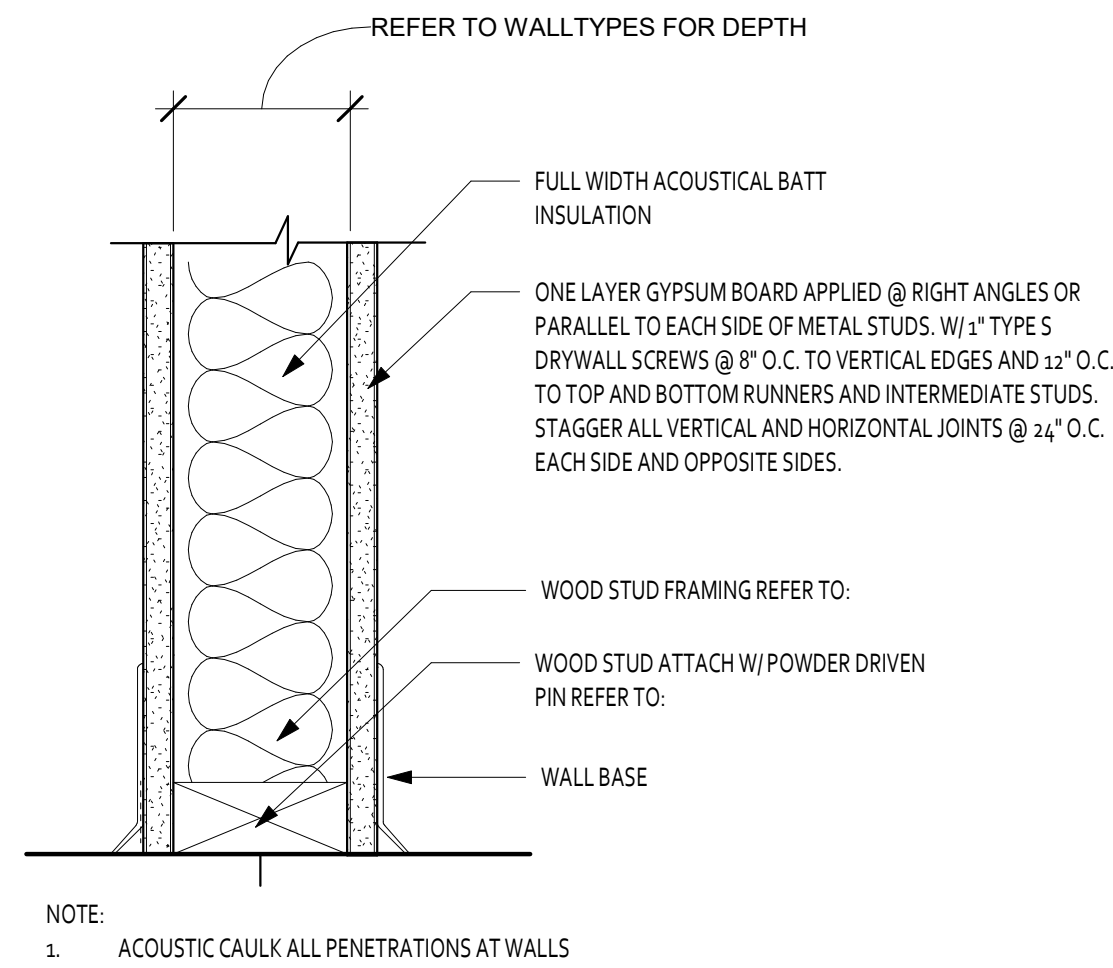
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A7.0

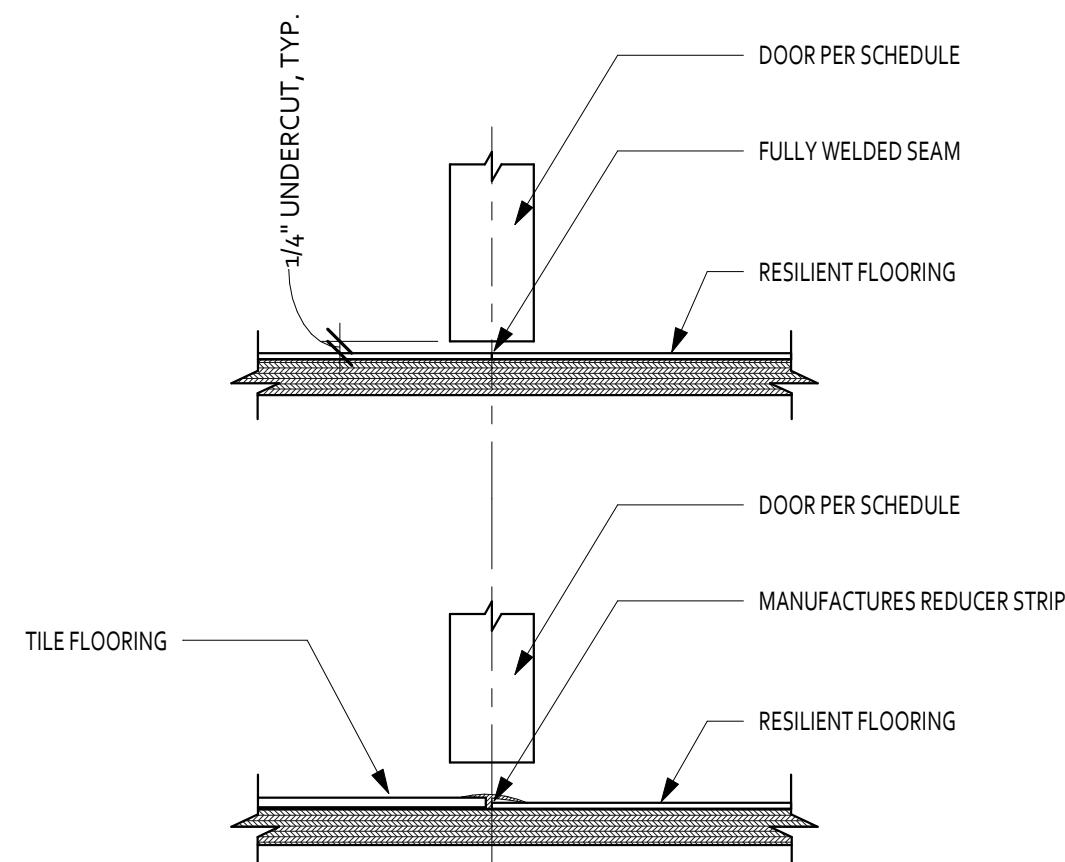
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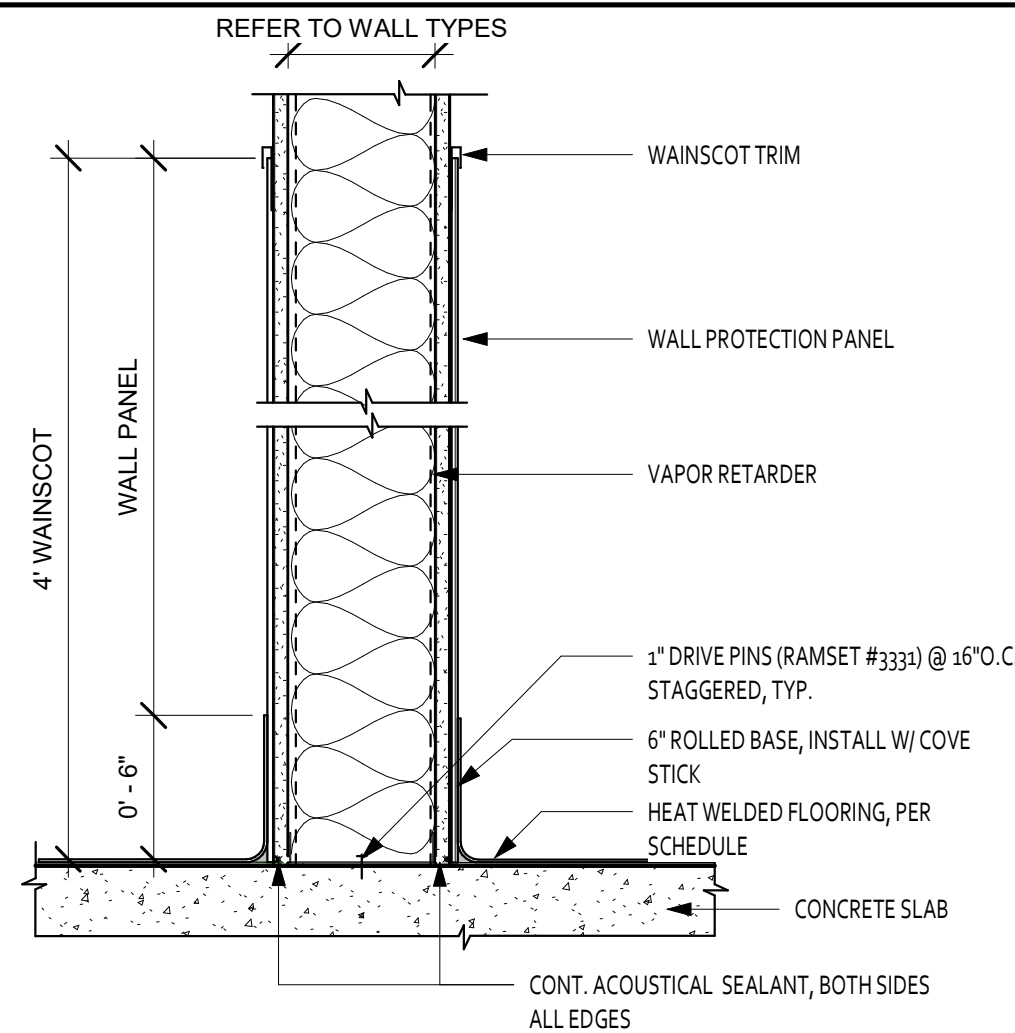
5 DOOR - JAMB @ GYP BOARD
3" = 1'-0"



① WALL BASE - TYPICAL
3" = 1'-0"



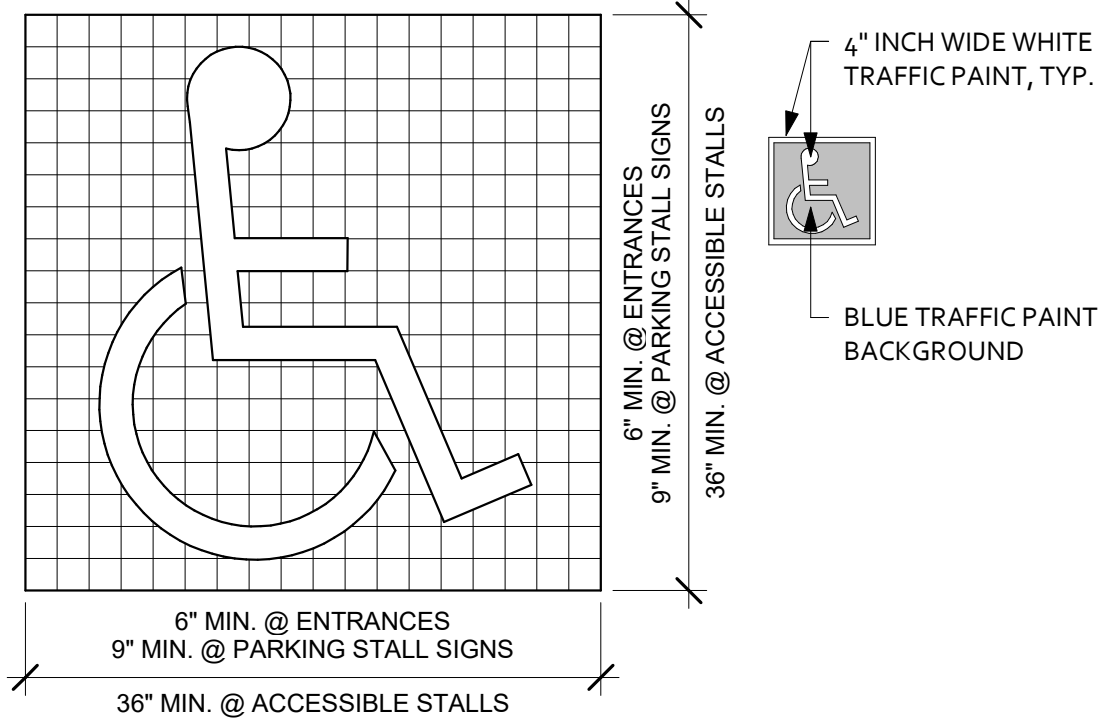
6 DOOR - INT THRESHOLD
3" = 1'-0"



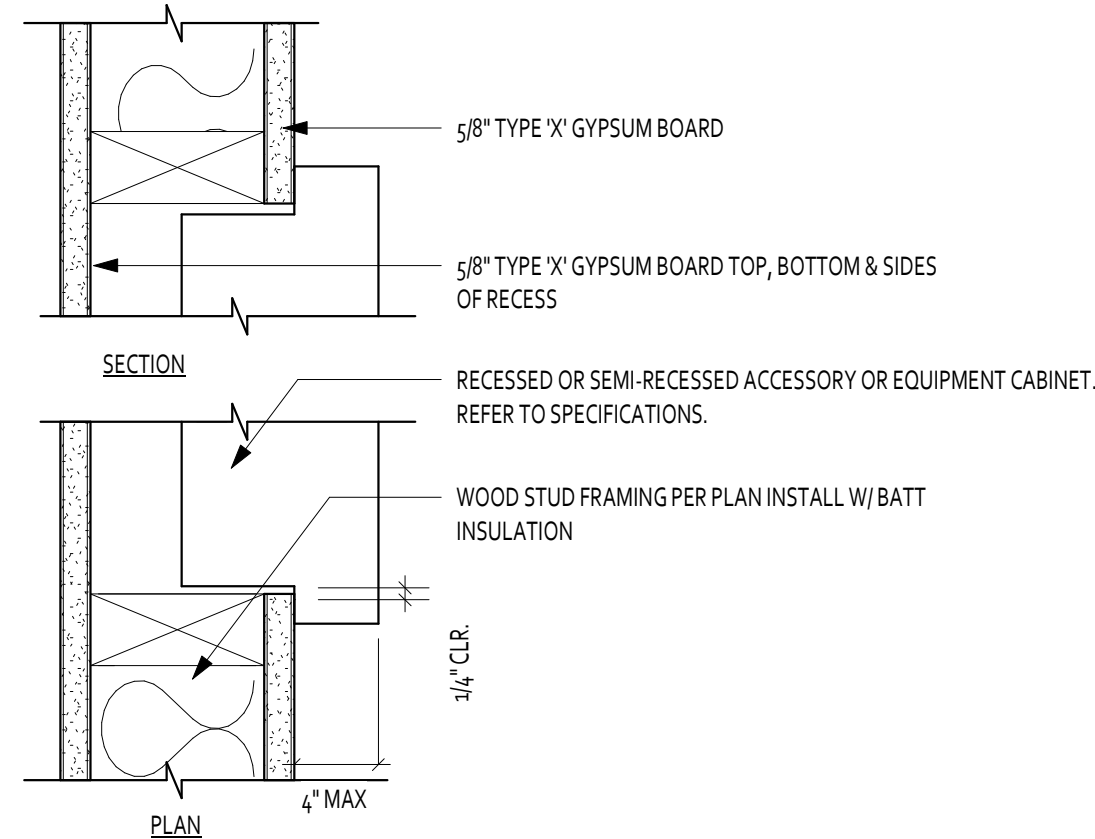
② WALL BASE - WAINSCOT
1 1/2" = 1'-0"

ACCESSIBLE SIGNAGE NOTES:

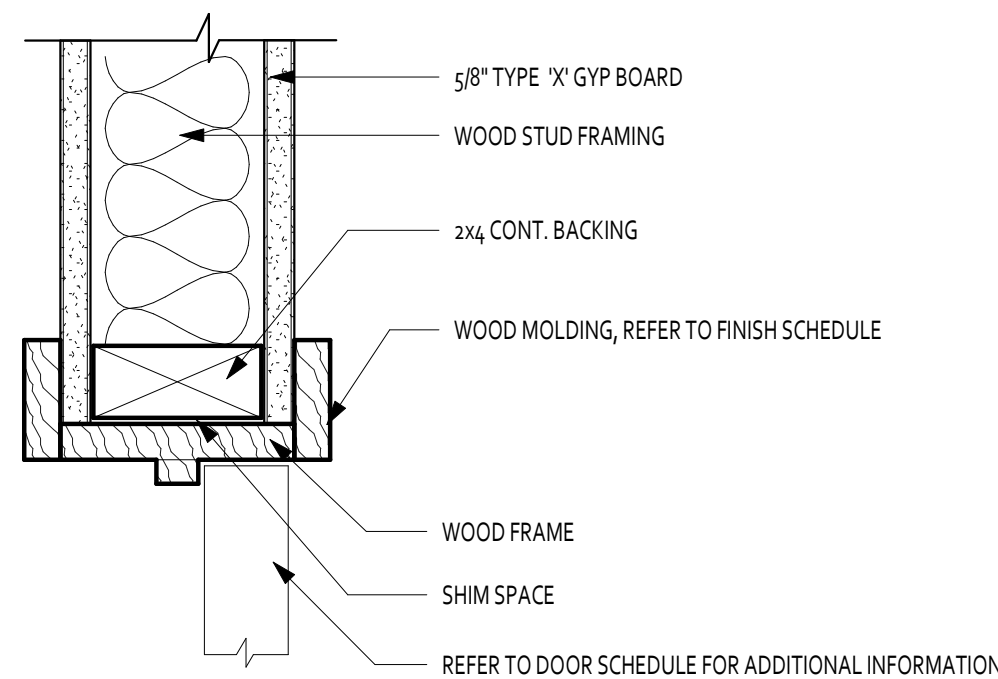
- A. ALL CONSTRUCTION SHALL COMPLY WITH CALIFORNIA ACCESSIBILITY REGULATIONS AND ADA REGULATIONS. MOST CURRENT AND MOST RESTRICTIVE SHALL COMPLY.
- B. BLUE TRAFFIC PAINT SHALL BE 15090 NFAED. STANDARD 595B.



7 SYMBOL - ISA1
1" = 1'-0"



3 FES - SEMI RECESSED CABINET
3" = 1'-0"



4 DOOR - HEAD @ GYP BOARD
3" = 1'-0"



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Proj. No.: 2022011

Date: 05/30/2023

Scale: $1/4" = 1'-0"$

Drawn By: _____ Author: _____

Drawing Title:

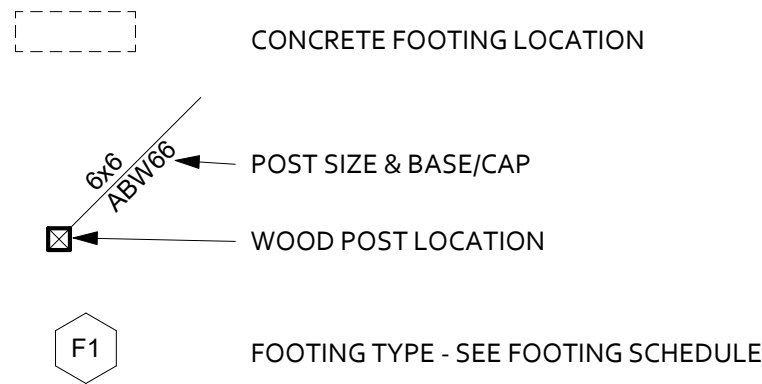
FOUNDATION PLAN

Drawing Number:

S2.0

7/28/2023 11:30:19 AM

LEGEND



FOUNDATION NOTES

- A. REFER TO STRUCTURAL GENERAL NOTES SHEET S1.0
- B. CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN W/ ARCHITECTURAL SHEETS & INFORM ARCHITECT & ENGINEER OF ANY DISCREPANCIES.
- C. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS WITH ARCHITECT, TYPICAL.
- D. PIER AND CURTAIN FOUNDATION WALLS SHALL BE CONSTRUCTED PER CRC R404.1-5.3.

SCHEDULE - STRUCTURAL FOOTING			
Type	Width x Depth x Length	Reinforcement	Schedule Notes
F1	18" SQ. x 12" DEEP	(2) # 4 each way bottom	
F2	24" SQ. x 12" DEEP.	(2) # 4 each way bottom	

SHEET NOTES

1. NOT USED

1 1ST FLOOR - PARTIAL FOUNDATION PLAN
1/4" = 1'-0"



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CONCRETE FOOTING LOCATION

POST SIZE & BASE/CAP

WOOD POST LOCATION

FOOTING TYPE - SEE FOOTING SCHEDULE

A. REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0
B. CONTRACTOR TO VERIFY ALL DIMENSIONS & ELEVATIONS SHOWN W/ ARCHITECTURAL SHEETS & INFORM ARCHITECT & ENGINEER OF ANY DISCREPANCIES.

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Date: 05/30/2023

Scale: $1/4" = 1'-0"$

Drawn By: Author

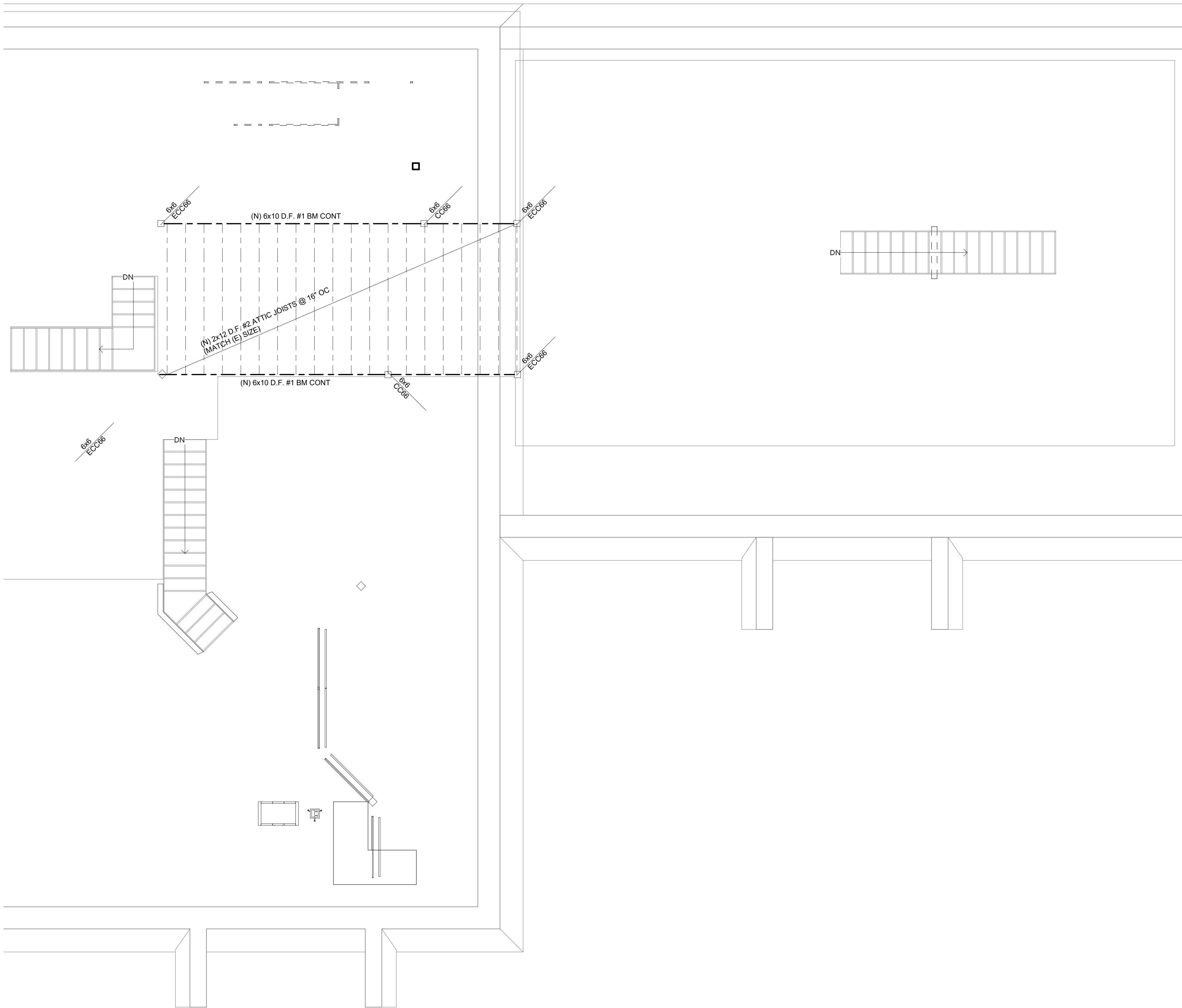
Drawing Title:

2ND FLOOR FRAMING PLAN

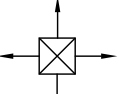
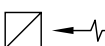
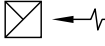
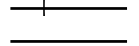
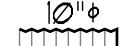
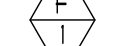
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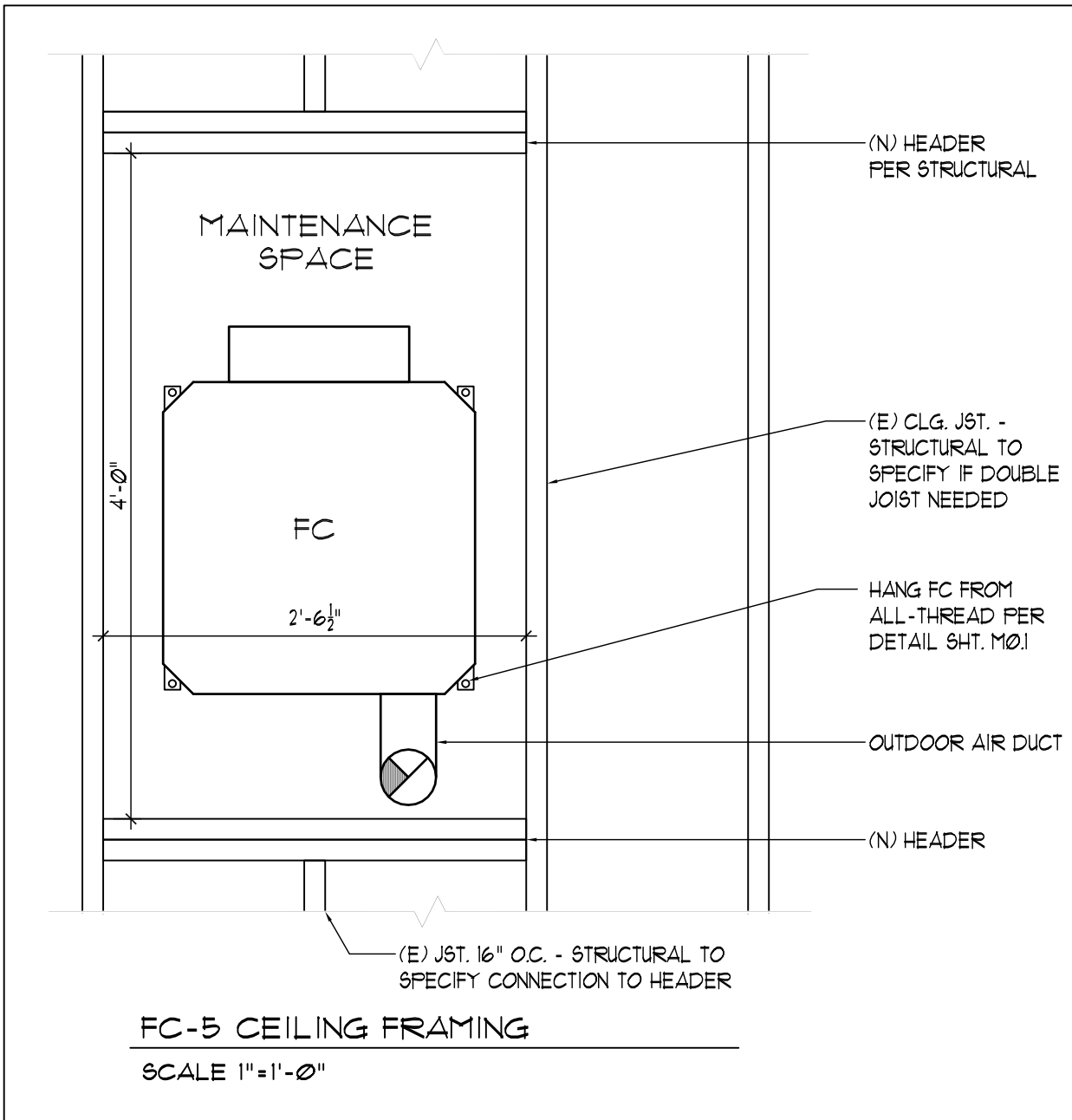
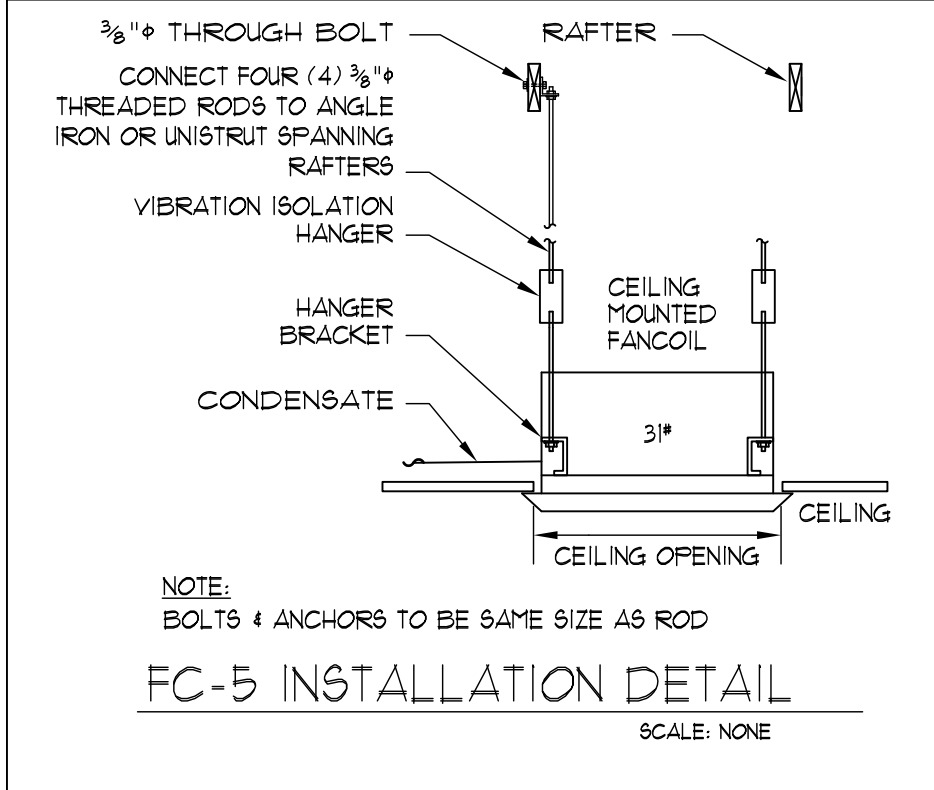
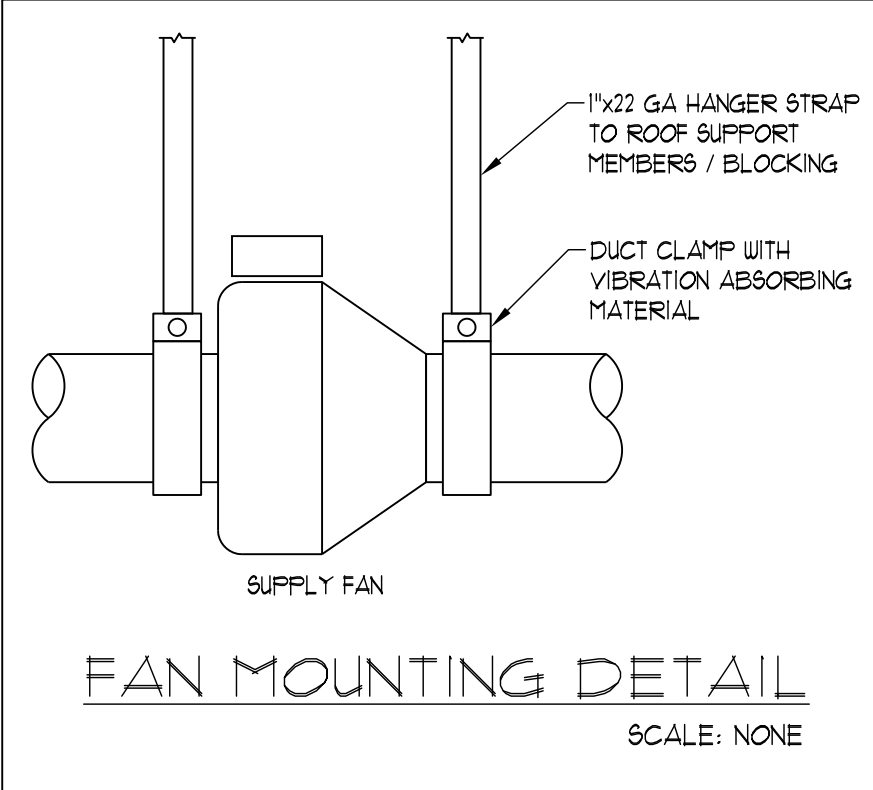
S2.1

7/28/2023 11:30:20 A



① 2ND FLOOR - PARTIAL FRAMING PLAN
1/4" = 1'-0"

HVAC LEGEND	
	12"x6" SA 40 CFM
	24"x10" RA 40 CFM
	4"x10" EA 40 CFM
	RECTANGULAR SUPPLY AIR CROSS SECTION
	RECTANGULAR RETURN AIR CROSS SECTION
	RECTANGULAR EXHAUST AIR CROSS SECTION
	THERMOSTAT
	BALANCING DAMPER
	RIGID DUCT
	FLEXIBLE DUCT
	EQUIPMENT TAG
AC	ABOVE CEILING
F	FURNACE
CU	CONDENSING UNIT
HP	HEAT PUMP
FC	FAN COIL UNIT
CFM	CUBIC FEET PER MINUTE
EF	EXHAUST FAN
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
OA	OUTSIDE AIR



SCOPE OF WORK

- REUSE EXISTING HVAC EQUIPMENT AND RECONFIGURE DUCTING AS INDICATED ON PLANS.
 - INSTALL NEW DUCTLESS MINI-SPLIT FOR NEW LAUNDRY AREA.
 - INSTALL NEW EXHAUST FANS AS INDICATED.
 - ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS DISCOVERED DURING DEMOLITION SHALL BE BROUGHT TO THE ARCHITECT AND ENGINEER'S ATTENTION TO REVISE PLANS AS NECESSARY.
2. FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF HVAC WORK INDICATED ON THE DRAWINGS. ALSO, PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.
3. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.
4. ALL WORK SHALL CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE SEEN TO BE NECESSARY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF EQUIPMENT INDICATED TO BE REMOVED, UNLESS OTHERWISE INSTRUCTED BY THE OWNER. EXISTING REFRIGERANT SHALL BE RECLAIMED AND PROPERLY DISPOSED OF IN ACCORDANCE WITH THE 1990 CLEAN AIR ACT AMENDMENT.
6. THE CONTRACTOR SHALL PARTICIPATE IN BID WALK-THRU AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. BIDS SHALL BE ADJUSTED TO ACCOMMODATE ANY EXISTING CONDITIONS WHICH ARE NOT SHOWN ON PLANS AND ARE VISIBLE DURING WALK-THRU. ANY AND ALL DEVIATIONS FROM PLANS SHALL BE BROUGHT TO THE ARCHITECTS' ATTENTION.
7. CONTROLS - GENERAL
- A. THE VENTILATION SYSTEM SHALL BE WIRED TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS. DURING UNOCCUPIED HOURS THE UNIT SHALL CYCLE ON AND OFF WITH A DEMAND FOR HEATING AND COOLING.
- B. ROOM THERMOSTATS SHALL BE PROGRAMMABLE WITH 5-1-1 DAY C/PROGRAMMING AND 24-HOUR HEATING AND COOLING SETBACK CAPABILITY.
- D. THERMOSTATS SHALL BE INSTALLED WHERE INDICATED ON PLANS, 48 INCHES ABOVE FINISHED FLOOR LEVEL.
- E. INSTALLING SUB-CONTRACTOR SHALL PROVIDE ENGINEER WITH COMPLETE CONTROL SCHEMATIC INCLUDING SUBMITTALS FOR EACH COMPONENT.
8. ZONE CONTROL SYSTEM FOR (E) RTU-3

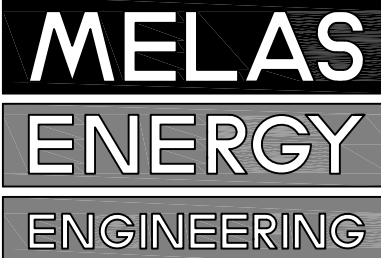
HVAC NOTES

9. AIR DIFFUSERS AND RETURN/EXHAUST GRILLES SHALL BE SHOEMAKER OR EQUAL. PROPOSED MODEL NUMBERS FOR DIFFERENT APPLICATIONS ARE AS FOLLOWS:
- | APPLICATION | MODEL # | REMARKS |
|--------------------------------|-------------|---|
| CLG T-BAR SUPPLY | 100 MA | MODULAR CORE WITH T-BAR PANEL THROW PATTERN INDICATED |
| CLG GYPSUM SUPPLY | MA (W/ OBD) | MODULAR CORE THROW PATTERN INDICATED |
| SPIRAL DUCT SIDEWALL SUPPLY | R634 | DOUBLE DEFLECTION RADIUS SPIRAL PIPE DIFFUSER PROVIDE HALF LENGTH SCOOP EXTRACTOR |
| SPIRAL DUCT CEILING | RD | ADJUSTABLE ROUND CEILING DIFFUSER |
| SPIRAL DUCT RETURN & EXHAUST | R652 | SINGLE DEFLECTION RADIUS SPIRAL PIPE GRILLE |
| CLG GYPSUM RETURN | 915 | HORIZONTAL BAR FIXED BLADE |
| CLG GYPSUM EXHAUST DOOR LOUVER | 600 4000 | EGGCRATE GRILLE VISION PROOF ALUMINUM TRANSFER GRILLE |
| EXTERIOR LOUVER | 4525 | STORM RESISTANT, DRAINABLE BLADE EXTERIOR LOUVER WITH BIRDSCREEN |
10. FOR THE EXACT LOCATION OF DIFFUSERS AND GRILLES REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
11. PROVIDE CAM-FARR, 2 INCH DEEP, MERV-13 FILTERS IN RETURN AIR PLENUM OF AIR HANDLERS. INSTALL DOWNSTREAM OF RETURN AIR AND FRESH AIR INTAKE.
12. FLUES AND COMBUSTION INLETS FOR FURNACES SHALL TERMINATE A MINIMUM OF THREE (3) FEET ABOVE ANY FRESH AIR INLET WITHIN TEN (10) FEET.
13. OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 10 FEET AWAY OR 3 FEET BELOW EXHAUST AIR DISCHARGE OR PLUMBING VENTS. COVER AIR INTAKE WITH 1" MESH WIRE.
14. SLOPE ALL CONDENSATE LINES AT 1/4" PER FOOT. PRIMARY CONDENSATE SHALL TERMINATE INDIRECTLY TO APPROVED PLUMBING FIXTURE. IN LIEU OF SECONDARY DRAIN, FLOAT SWITCH FOR FC-5 WILL INTERRUPT POWER TO THE FANCOIL UNIT WHEN MOISTURE IS DETECTED IN THE DRAIN PAN. PIPING SHALL BE 3/4" SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.
15. DUCT MATERIAL AND SEALING:
- ADUCTING IN CONCEALED LOCATION SHALL BE GALVANIZED SHEET METAL. PRE-INSULATED FLEX DUCT MAY BE USED AS LEADERS (5' MAX.) TO AND FROM AIR TERMINALS, PER CMC 603.41. DUCT SHALL BE MANUFACTURED IN

- ACCORDANCE WITH CHAPT. 6 OF THE 2019 CMC AND SMACNA GUIDELINES.
- B. PRE-INSULATED FLEX DUCT SHALL HAVE AN R-VALUE = 8.0.
- C. DUCTING EXPOSED TO THE INSIDE SHALL BE SPIRAL DUCT AS MANUFACTURED BY SPIRAL MANUFACTURING CO. INC. INSTALL PAINT GRADE DUCTING AND PAINT NEW DUCTING TO MATCH EXISTING DUCTING.
- D. FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL181.
- E. METAL TO METAL JOINTS SHALL BE SEALED WITH MASTIC SEALANT TO PROVIDE AIRTIGHT PROTECTION PRIOR TO INSULATION. APPLY SEALANT ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- F. INNER LINING OF FLEX DUCTING SHALL BE SECURELY FASTENED WITH A FANDUIT STRAP. THE EXTERIOR LINING (INSULATION) SHALL BE SECURELY TAPED TO THE SHEET METAL FITTING.
- G. WHERE TURNS AND/OR TRANSITIONS EXCEED 45 DEGREES USE SHEET METAL FITTINGS AND ELBOWS. PROVIDE SHEET METAL SLEEVES FOR ALL SPLICES. HALL TAPES AND MASTIC SEALANTS SHALL COMPLY WITH UL181, UL 181A, OR UL181B.
16. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 20 DEGREES; CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 30 DEGREES.
17. SUPPORTS AND HANGERS FOR DUCTING SHALL BE IN ACCORDANCE WITH THE 2019 UNIFORM MECHANICAL CODE AND IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. DUCTS SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION, SUPPORTS AND 8' INTERVALS (MIN.).
18. WRAP ALL UNLINED CONCEALED SUPPLY AND RETURN DUCTS WITH O.C. FIBERGLASS DUCT WRAP OR JM MICROLITE, 2" THICK AND 1" PER CUBIC FOOT DENSITY. WRAP INSULATION ENTIRELY AROUND DUCT AND WIRE SECURELY IN PLACE WITH #6 WIRE 12" O.C. ON EACH SIDE OF STANDING SEAM AND OVER INSULATION JOINT. LAP ALL INSULATION JOINTS 3" MIN. INSULATE DUCTS TIGHT AGAINST OTHER WORK BEFORE HANGING IN PLACE.
19. AIR DISTRIBUTION SYSTEM SHALL BE BALANCED WITH AN APPROVED AND CALIBRATED AIR FLOW MEASURING DEVICE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PROVIDE INDICATED AIR FLOW RATES (WITHIN +/-5%). PROVIDE OWNER WITH COMPLETE AIR BALANCE REPORT.
20. NO DUCTED OR NON-DUCTED AIR MOVING DEVICE SHALL TERMINATE IN ATTIC.
21. INSULATE CONDENSATE LINE WITH ARMSTRONG® 1/2" WALL THICKNESS "DG TUBO-SPLIT", COND=0.29 (BTU-IN/HR-°F) AT 15°F IN ACCORDANCE WITH ASTM C 117 OR C 918 WITH THIRD PARTY TESTING SUPERVISION. WHERE PIPING IS EXPOSED TO WEATHER PROVIDE PVC JACKETING AROUND INSULATION.

HVAC EQUIPMENT SCHEDULE																	
		COOLING			HEATING		FAN			ELECT.							
SYMBOL	AREA SERVED	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	COIL EDB/EWB (°F)	HIGH INPUT/OUTPUT (BTU/HR)	DB (°F)	CFM (1)	S.P. (WC)	O.A. (CFM)(1)	VOLTAGE	MCA	COMP. LRA	FUSE/MOCP	MFGR & MODEL NO.	WEIGHT (LBS)	EFFICIENCY	REMARKS
F-1 (E)	WEST OFFICES	---	---	---	120,000 /113,000	25	1,900	0.6	370	115 V. 1 PHASE	19.2	---	20	BRYANT #355MAV060120	156	AFUE = 92	EXISTING FURNACE MOUNTED IN UPFLOW POSITION
CU-1 (E)	WEST OFFICES	51,350	47,800	80/63	---	---	---	---	---	208/230 V. 1 PHASE	37.5	165	60	BRYANT #105ANA060	294	SEER = 14.0	EXISTING GROUND MOUNT CONDENSING UNIT
DX-1 (E)	WEST OFFICES	PERFORMANCE FOR CU-1 ABOVE IS BASED ON THIS COIL												BRYANT # CK5BXA060	81	---	EXISTING DIRECT EXPANSION COIL
F-2 (E)	RECEPTION LOUNGE	---	---	---	120,000 /113,000	25	1,900	0.6	300	115 V. 1 PHASE	19.2	---	20	BRYANT #355MAV060120	156	AFUE = 92	EXISTING FURNACE MOUNTED IN HORIZONTAL POSITION
CU-2 (E)	RECEPTION LOUNGE	51,350	47,800	80/63	---	---	---	---	---	208/230 V. 1 PHASE	37.5	165	60	CARRIER #38BRC060	294	SEER = 10.0	EXISTING GROUND MOUNT CONDENSING UNIT
DX-2 (E)	RECEPTION LOUNGE	PERFORMANCE FOR CU-2 ABOVE IS BASED ON THIS COIL												BRYANT # CK5BXA060	81	---	EXISTING DIRECT EXPANSION COIL
F-3 (E)	BREAKROOM COMPUTER TRAINING	---	---	---	40,000 /36,800	25	1,200	0.6	275	115 V. 1 PHASE	13	---	15	BRYANT #355MAV042040	120	AFUE = 92	EXISTING FURNACE MOUNTED IN UPFLOW POSITION
CU-3 (E)	BREAKROOM COMPUTER TRAINING	32,600	32,300	80/62	---	---	---	---	---	208/230 V. 1 PHASE	25.5	137	30	BRYANT #563CN036	225	SEER = 12.0	EXISTING GROUND MOUNT CONDENSING UNIT
DX-3 (E)	BREAKROOM COMPUTER TRAINING	PERFORMANCE FOR CU-3 ABOVE IS BASED ON THIS COIL												BRYANT # CK5BXA048	81	---	EXISTING DIRECT EXPANSION COIL
F-4 (E)	MEETING ROOMS PHASE II	---	---	---	80,000 /73,600	25	1,400	0.6	TBD (2)	115 V. 1 PHASE	13	---	15	BRYANT #355MAV042040	120	AFUE = 92	EXISTING FURNACE MOUNTED IN HORIZONTAL POSITION
CU-4 (E)	MEETING ROOMS PHASE II	32,600	32,300	80/62	---	---	---	---	---	208/230 V. 1 PHASE	26.3	115	40	BRYANT #563CN048	225	SEER = 12.0	EXISTING GROUND MOUNT CONDENSING UNIT
DX-4 (E)	MEETING ROOMS PHASE II	PERFORMANCE FOR CU-4 ABOVE IS BASED ON THIS COIL												BRYANT # CK5BXA048	81	---	EXISTING DIRECT EXPANSION COIL
FC-5 (N)	LAUNDRY	18,000	12,500	80/67	11,000	17	560	---	160 (3)	(4)	0.5	(4)	(4)	MITSUBISHI # NTXCKS18A112AA	31	---	NEW CEILING CASSETTE FANCOIL PROVIDE CONDENSATE PUMP (5) DIMENSIONS: H=9-21/32", W=22-7/16", D=22-7/16" BUILT-IN FLOAT SWITCH FOR CONDENSATE SOUND - 44 dBA
HP-5 (N)	LAUNDRY	18,000	12,500	80/67	11,000	17	---	---	---	208/230 V. 1 PHASE	14	---	24	MITSUBISHI # NTXKXS18A112AA	127	HSPF2 = 10.0 SEER2 = 21.0 EER2 = 12.5	NEW WALL MOUNTED OUTDOOR HEAT PUMP SOUND - 53 dBA DIMENSIONS: H=34-5/8", W=33-1/16", D=13" PROVIDE DIVERSITECH Q58Z000M WALL BRACKET
NOTES: (1) INSTALL NEW BALANCING DAMPERS IN RA AND OA DUCTING FROM RA PLENUM AND ADJUST TO PROVIDE INDICATED VENTILATION. (2) OUTSIDE AIR FOR F-4 WILL BE DETERMINED ONCE THE SCOPE FOR PHASE II HAS BEEN DETERMINED. (3) OUTSIDE AIR FOR FC-5 WILL BE PROVIDED BY SUPPLY FAN, SF-5, DUCTED TO FANCOIL. (4) ELECTRICAL FOR INDOOR UNITS, FC-# WILL BE PROVIDED BY OUTDOOR UNITS, HP-#. (5) CONDENSATE PUMP SHALL BE G081 II, MANUFACTURED BY REFCO. SPECIFICATIONS: 1.5 GPH, HEAD = 65 FT, 1.3 LBS, 20 DBA.																	

FAN SCHEDULE													
			COOLING	FAN			ELECT.						
SYMBOL	QTY.	AREA SERVED	DESCRIPTION	CFM	S.P. (WC)	RPM	VOLTAGE	BHP	WATTS	MFGR & MODEL NO.	WEIGHT (LBS)	SONES	REMARKS
EF-1 (N)	1	STAFF RR	CEILING CABINET FAN	80	0.25	---	115 V. 1 PHASE	---	9.4	PANASONIC WHISPERGREENFIT™ FV-0511VF1	11.2	0.8	UNIT HAS BUILT-IN BACKDRAFT DAMPER EXHAUST FAN SHALL HAVE 4" DUCT CONNECTION FAN HAS 3 HIGH SPEED SETTINGS: 50, 80, OR 110 CFM FAN SHALL BE ENERGIZED BY ROOM LIGHT SWITCH
EF-2 (N)	1	BREAK ROOM	CEILING CABINET FAN	111	0.25	---	115 V. 1 PHASE	---	16.4	PANASONIC WHISPERCEILING™ SMARTFLOW™ FV-0511VQ1	11	0.9	UNIT HAS BUILT-IN BACKDRAFT DAMPER EXHAUST FAN SHALL HAVE 6" DUCT CONNECTION FAN SHALL BE ENERGIZED BY FAN IN F-3. PROVIDE CONTROL WITH SEPARATE SWITCH SELECT DESIRED AIRFLOW (50-80-110 CFM)
EF-3 (N)	1	SHOWERS	IN-LINE EXHAUST FAN	200	0.4	---	115 V. 1 PHASE	---	53.2	PANASONIC WHISPERLINE™ FV-20-NLF1	19.1	1.2	UNIT HAS BUILT-IN BACKDRAFT DAMPER FAN SHALL BE ENERGIZED BY FAN IN FC-5. PROVIDE CONTROL WITH SEPARATE SWITCH. SUSPEND FAN FROM ROOF FRAMING L=13-3/8", W=9-1/2", H=7-7/8"
EF-4 (N)	1	JANITOR	CEILING CABINET FAN	80	0.25	---	115 V. 1 PHASE	---	9.4	PANASONIC WHISPERGREENFIT™ FV-0511VF1	11.2	0.8	UNIT HAS BUILT-IN BACKDRAFT DAMPER EXHAUST FAN SHALL HAVE 4" DUCT CONNECTION FAN HAS 3 HIGH SPEED SETTINGS: 50, 80, OR 110 CFM FAN SHALL BE ENERGIZED BY ROOM LIGHT SWITCH
EF-5 (E)	1	PHASE II RR	CEILING CABINET FAN	80	0.25	---	115 V. 1 PHASE	---	9.4	PANASONIC WHISPERGREENFIT™ FV-0511VF1	11.2	0.8	UNIT HAS BUILT-IN BACKDRAFT DAMPER EXHAUST FAN SHALL HAVE 4" DUCT CONNECTION FAN HAS 3 HIGH SPEED SETTINGS: 50, 80, OR 110 CFM FAN SHALL BE ENERGIZED BY ROOM LIGHT SWITCH
SF-5 (N)	1	LAUNDRY	IN-LINE SUPPLY FAN	160	0.3	4046	120 V. 1 PHASE		17.1	FANTECH FG 4XL EC	5.5	N/A	FAN SHALL BE ENERGIZED BY FAN IN FC-7 SEE DETAIL, SHT M0.1 SUSPEND FAN FROM ROOF FRAMING
NOTES: (1) INSTALL/MOUNT EXHAUST FANS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. (2) FIELD LOCATE DUCT TERMINATIONS FOR EXHAUST FANS. THEY SHALL NOT TERMINATE IN ATTIC OR WITHIN 3 FEET OF OPERABLE DOOR OR WINDOW.													



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NC - HOMELESS RESOURCE CENTER

1105 SUTTON WAY
GRASS VALLEY, CA 95945

HVAC NOTES & SPECIFICATIONS

Project Title:

Project Location:

Sheet Title:

Revisions:

No.	Date:	By:	Description:
-	-	-	-
-	-	-	-

Plot Date:

6/5/2023

Job #

23-153

Scale

as noted

Date 1st Issued

N/A

Sheet Number

M0.1



1105 SUTTON WAY
GRASS VALLEY, CA 95945

1ST FLOOR HVAC PLAN

Project Title:

Project Location:

Sheet Title:

Revisions:			
No.	Date:	By:	Description
-	-	-	-
-	-	-	-

Plot Date:	6/5/2023
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Job #	23-153
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Scale	as noted
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Date 1st Issued	N/A
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Sheet Number	M1.1
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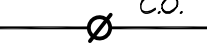
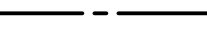
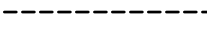
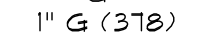
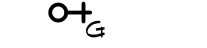


SCALE: 1/4" = 1'-0"

- ## KEYED NOTES

1. CONNECT (N) DUCT TO (E) DUCT AND EXTEND (N) SPIRAL DUCT AS INDICATED
2. INSTALL (N) SIDEWALL REGISTER WITH EXTRACTOR (N) (E) DUCT
3. CAP & SEAL (E) DUCT
4. INSTALL (N) SIDEWALL RA GRILLE IN (E) DUCT
5. (E) OUTDOOR AIR DUCT THROUGH ROOF TO INTAKE HOOD
6. REPLACE (E) AIR FILTERS WITH (N) MERV-13 FILTERS
7. FIELD-PASS DUCT WITH DAMPER
8. (E) ZONE DAMPERS IN THREE (3) (E) SA DUCT SYSTEMS
9. (E) SA DUCT WITH ZONE DAMPER SERVING (E) 2nd FLOOR STORAGE ROOM
10. (E) SA DUCT SERVING (E) 2nd FLOOR STORAGE ROOM
11. REMOVE (E) CEILING REGISTERS AND GRILLE AND ASSOCIATED DUCTING
12. CAP (E) SA DUCT AT PLENUM
13. CAP (E) RA DUCT AT PLENUM
14. CONNECT (N) DUCT TO (E) DUCT
15. CONNECT (N) RA DUCT TO (E) RA PLENUM
16. FIELD VERIFY THAT SIDEWALL REGISTER AT REAR HALL IS SUPPLIED BY DUCT ORIGINATING AT EAST WALL ATTIC SA DUCT. DO NOT REMOVE SERVING SA DUCT FROM F-33 AT CENTER AT SOUTH WALL OF ATTIC. CONTACT ENGINEER IF AS-BUILT DUCT PLAN IS INCORRECT.
17. REPLACE (E) 8" SA DUCT WITH (N) 10" SA DUCT
18. REPLACE (E) 8"x8" SA DIFFUSER WITH (N) 10"x10" DIFFUSER
19. RELOCATE THERMOSTAT
20. REMOVE (E) SUPPLY REGISTER, CAP & SEAL DUCT FAINT TO MATCH EXISTING
21. REMOVE (E) RE-LOCATE (E) 2" SA REGISTER
22. (N) 8" OA DUCT THROUGH ROOF TO GREENECK GRS-8 INTAKE HOOD
23. (N) 8" EA DUCT THROUGH ROOF TO GREENECK GRS-8 EXHAUST HOOD. MAINTAIN 10' MIN. CLEARANCE TO NEAREST OBSTACLE
24. (N) 10" SA DROP TO BELOW FLOOR
25. TERMINATE CONDENSATE INDIRECTLY TO WASHBASIN DRAIN
26. RELOCATE RA GRILLE
27. INSTALL (N) 8" MIN. SIZED REGISTERS WITH OBD PROVIDE INDICATED LABELING

PLUMBING SYMBOLS AND LEGEND

AC	ABOVE CEILING
UC	UNDER COUNTER
BF	BELOW FLOOR
BS	BELOW SLAB
BG	BELOW GROUND
IW	IN WALL
SM	SURFACE MOUNT
VR	VENT RISER
VTR	VENT THRU ROOF
WD,R	WASTE DROP, RISER
WH	WATER HEATER (SEE SCHEDULE)
CURD	COLD WATER RISER DROP
HURD	HOT WATER RISER, DROP
HURT	HOT WATER RETURN
WCO, GCO	WALL CLEANOUT, GRADE CLEANOUT
P.O.C.	POINT OF CONNECTION
	C.O. CLEANOUT
	CW COLD WATER PIPING
	HW HOT WATER PIPING
	HURT HOT WATER RETURN PIPING
	SW SANITARY WASTE PIPING
	V VENT PIPING
	SHUT OFF VALVE (S.O.V.) (LINE SIZED)
	G GAS PIPING, SIZE INDICATED GAS PIPING, SIZE INDICATED IN KBTU/HR INDICATED IN PARENTHESES
	REG GAS REGULATOR
	GAS SHUT-OFF BIBB

PIPE MATERIAL SCHEDULE

- SANITARY WASTE & VENTING MATERIALS**
- (A) DRAINAGE WASTE AND VENT PIPING SHALL BE SCHEDULE 40 ABS DUV, NO HUB CAST IRON OR OTHER APPROVED MATERIAL HAVING A SMOOTH AND UNIFORM BORE. FITTINGS SHALL BE MADE OF SIMILAR MATERIAL.
- EXCEPTION:
- 1) NO HUB CAST IRON SHALL BE USED WHERE SLOPE OF WASTE LINE IS LESS THAN 1/4 IN PER FOOT, OR WHERE WASTE PIPING IS ROUTED BETWEEN FLOORS OR RISERS IN WALLS.
- (B) VENT PIPING SHALL EXTEND 12 INCHES ABOVE THE ROOF (MIN) AND SHALL BE FLASHED WITH GALVANIZED ROOF JACKS AND RUBBER WATERPROOF VENT COLLARS. THE MINIMUM VENT SIZE AT VENT EXTENSION THROUGH ROOF SHALL BE 3" (MIN) TO PREVENT FROST/SNOW CLOSURE. THE CHANGE IN DIAMETER SHALL BE MADE INSIDE THE BUILDING AT LEAST ONE (1) FOOT BELOW THE ROOF. VENTS SHALL BE PLACED ADJACENT TO UPPER RIDGE OF ROOF AND SHALL BE PROTECTED BY "MURPHY SPLITTER" OR METAL FORMED CRICKET APPROVED BY ADMINISTRATIVE AUTHORITY.
- POTABLE WATER PIPING**
- (A) SCHEDULE 40 PVC PIPE MEETING THE REQUIREMENTS OF ASTM D 1785 MAY BE USED FOR COLD WATER DISTRIBUTION OUTSIDE THE BUILDING. FITTINGS SHALL BE IN COMPLIANCE ASTM 2464.
- (B) WATER PIPE AND FITTINGS SHALL BE TYPE K COPPER, ASTM B88. COPPER PIPING SHALL BE JOINED WITH VIEGA® PRESS FITTING. ALL MATERIAL USED WITHIN THE WATER SUPPLY SYSTEM, EXCEPT VALVES AND SIMILAR DEVICES, SHALL BE OF SIMILAR MATERIAL, EXCEPT WHERE OTHERWISE APPROVED BY THE ADMINISTRATIVE AUTHORITY.
- FUEL GAS PIPING**
- (A) SCHEDULE 40 BLACK STEEL PIPE, ASTM A53, SCHEDULE 40 BLACK, WITH MALLEABLE IRON OR FORGED STEEL FITTINGS, SCREWED (THROUGH 2"). PROVIDE GAS COCK, DIRT LEG AND UNION AT EACH CONNECTION. GAS PIPING SHALL NOT BE BURIED BELOW SLAB UNLESS SPECIFICALLY INDICATED ON PLANS AND MEETING THE REQUIREMENTS OF CPC SECTION 1211.6.
- (B) PLASTIC PIPE SHALL BE INSTALLED OUTSIDE UNDERGROUND ONLY. PIPING SHALL BE POLYETHYLENE CONFORMING TO ASTM D 2513. BURIED GAS PIPING MAY BE BLACK STEEL PIPE WITH FACTORY WRAPPED PLASTIC COVER AS APPROVED BY LOCAL ADMINISTRATIVE AUTHORITY, ASTM A53, SCHEDULE 40 BLACK, WITH MALLEABLE IRON OR FORGED STEEL FITTINGS, SCREWED (THROUGH 2").

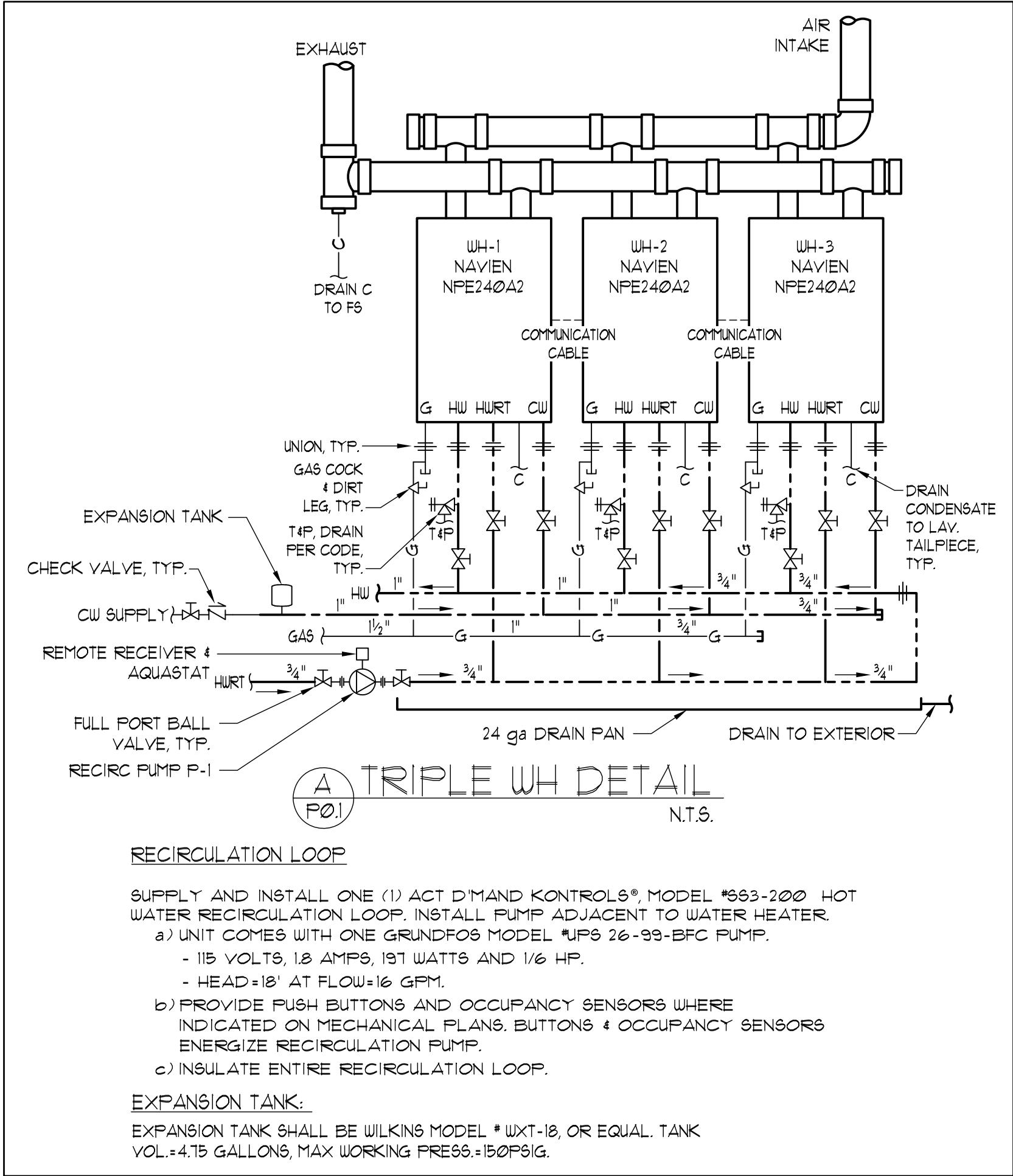
- 1. SCOPE OF WORK**
- INSTALL THREE (3) NEW INSTANTANEOUS GAS WATER HEATERS AS INDICATED ON PLANS.
 - CONTRACTOR SHALL SCOPE EXISTING WASTE SYSTEM TO VERIFY THE LOCATION AND SIZE IS AS INDICATED ON PLANS. VERIFY INVERT ELEVATION AS WELL.
 - FIELD VERIFY PIPING CONFIGURATION. ANY ALTERATION FROM WHAT IS INDICATED ON PLANS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
 - REMOVE EXISTING PIPING NOT SHOWN TO BE REUSED ON PLANS.
 - SAWCUT EXISTING SLAB FOR NEW WASTE PIPING AS INDICATED ON PLANS. PATCH TO MATCH EXISTING.
- 2. ALL WATER AND WASTE PLUMBING INSTALLATION WORK AND ALL PLUMBING MATERIALS SHALL BE IN ACCORDANCE WITH THE 2022 CALIFORNIA PLUMBING CODE.**
- 3. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.**
- 4. ALL WORK SHALL CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE SEEN TO BE NECESSARY.**
- 5. HOT AND COLD WATER PIPE SIZING IS BASED ON CHART A 1051 OF THE 2022 CPC AT THE FRICTION LOSS PER 100 FT INDICATED ON WATER AND WASTE SERVICE CALCULATIONS.**
- 6. THE GAS PIPE SIZING MEETS OR EXCEEDS THE APPROPRIATE ROW FOR PIPE LENGTH IN TABLE 1216.2(1).**
- 7. GAS PIPING SIZED ACCORDING TO TABLE 1216.2(1) OF THE 2022 CPC. PIPE SIZING FOR NATURAL GAS LESS THAN 2 PSI WITH PRESSURE DROP = 0.5 INWC.**
- DISTANCE FROM METER TO FURTHEST APPLIANCE = 75 FEET.
 - FITTING EQUIVALENT LENGTH = 12 FEET.
 - USE 90 FEET ROW IN TABLE 1216.2(1).
 - GAS PIPING SHALL SCHEDULE 40 BLACK STEEL.
- 8. PROVIDE SHUTOFF VALVES OR STOPS AT EACH CONNECTION. AT GAS CONNECTIONS, PROVIDE GAS COCK, DIRT LEG, UNION AND FLEX CONNECTION.**
- 9. CONTRACTORS SHALL PARTICIPATE IN BID WALK-THRU AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. BIDS SHALL BE ADJUSTED TO ACCOMMODATE ANY EXISTING CONDITIONS WHICH ARE NOT SHOWN ON PLANS AND ARE VISIBLE DURING WALK-THRU. ANY AND ALL DEVIATIONS FROM PLANS SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.**
- 10. CONTRACTOR SHALL VERIFY SITE DIMENSIONS. NO CHANGE ORDERS WILL BE ALLOWED FOR CONDITIONS WHICH COULD BE VERIFIED BEFORE CONSTRUCTION.**
- 11. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. NO CHANGE ORDERS WILL BE ALLOWED FOR ITEMS THAT COULD HAVE BEEN COORDINATED IN THE FIELD.**

PLUMBING NOTES

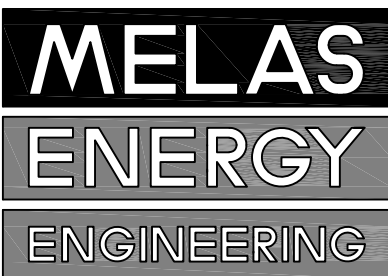
- 12. PLUMBING FIXTURES NOT SPECIFIED ON PLANS SHALL BE SELECTED BY THE INSTALLING SUBCONTRACTOR AND SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. FIXTURES SHALL MEET 2022 CPC AND CAL-GREEN CODES. MAXIMUM FLOW RATES SHALL BE AS FOLLOWS:**
- SINKS 18 GPM
 - LAVATORIES (COMMERCIAL) 0.5 GPM
 - SHOULDERS 18 GPM
 - WATER CLOSETS 128 GPF
 - URINALS 0.125 GPF
 - METERING FAUCETS 0.25 GAL/CYCLE
- 13. FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF PLUMBING WORK INDICATED ON THE DRAWINGS. PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.**
- 14. PROVIDE ALL NECESSARY PLUMBING CONNECTIONS TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OR SECTION OR BY OWNERS. PROVIDE SHUTOFF VALVES OR STOPS AT EACH CONNECTION.**
- 15. PIPING IS TO BE FIELD LOCATED IN SUCH A WAY AS TO AVOID OBSTACLES, MEET CALIFORNIA PLUMBING CODE (CPC) REQUIREMENTS AND ALLOW SERVICE CLEARANCE TO AREAS AND EQUIPMENT THAT MAY REQUIRE SERVICING.**
- 16. ALL HORIZONTAL WASTE / VENT PIPES SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. IF EXISTING INVERT ELEVATION DOES NOT FOR 1/4" PER FOOT, 1/8" PER FOOT WILL BE ALLOWED WITH THE WASTE PIPING UPSIZED.**
- 17. HORIZONTAL VENT PIPE SHALL BE 90 GRADED AND CONNECTED AS TO DRIP BACK BY GRAVITY TO THE DRAINPIPE IT SERVES PER 2022 CPC 905.2. VENT PIPE SHALL TERMINATE A MINIMUM OF 10 FEET FROM FRESH AIR INTAKE.**
- 18. INSULATE ALL POTABLE HOT WATER SUPPLY & RETURN PIPING WITH K-FLEX 1/2" WALL THICKNESS INSUL-TUBE® OR EQUAL. CONDUCTIVITY = 0.23 (BTU-IN/HR-°F) AT 75°F IN NON-CONDITIONED SPACE, IN ACCORDANCE WITH ASTM C111 OR C918.**
- 19. FOR EXACT LOCATION OF PLUMBING FIXTURES AND MOUNTING HEIGHTS, SEE ARCHITECTURAL ELEVATIONS.**
- 20. PIPING SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH CHAPTER 3 OF THE 2022 CPC WITH SUPERSTRUT HANGERS, OR EQUAL. PROVIDE ISOLATORS AT ALL HANGERS WHERE PIPING IS NOT INSULATED.**
- 21. TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS.**
- 22. CLEANOUTS IN FIRE RATED WALLS SHALL HAVE BOTH METAL BODY AND COVER CONSISTENT WITH PIPE MATERIAL SCHEDULE.**
- 23. PLUMBING VENTS SHALL BE AT LEAST 10' FROM OR 3' ABOVE ANY DOOR, OPENABLE WINDOW, MECHANICAL AIR INTAKE, OR OTHER INLETS INTO THE BUILDING PER CPC 906.2.**
- 24. DISINFECTION OF WATER SYSTEM**
- PRIOR TO FINAL INSPECTION, CLEAN AND DISINFECT DOMESTIC HOT AND COLD-WATER PIPING CONNECTED TO DOMESTIC WATER MAINS.
 - PIPING SHALL BE SENSITIZED WITH A MIXTURE OF 2 POUNDS CHLORINATED LIME TO EACH 1,000 GALLONS OF WATER (50 PPM OF AVAILABLE CHLORINE).
 - RETAIN THE MIXTURE IN PIPES 24 HOURS AND FLUSH IT THOROUGHLY WITH POTABLE WATER PRIOR TO PLACING IT IN SERVICE.
 - PERFORM ALL WORK PER AWWA STANDARD PROCEDURES FOR DISINFECTING WATER MAINS AND AS REQUIRED BY LOCAL BUILDING AND HEALTH DEPARTMENT CODES.
- GAS PIPE TESTING**
- ALL TESTING SHALL BE IN COMPLIANCE WITH SECTION 1916 OF THE 2022 CALIFORNIA MECHANICAL CODE.
 - TEST ALL NEW PIPING AT FOUR (4) TIMES THE WORKING PRESSURE BUT NOT LESS THAN 3 PSI FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS. ANY LOSS IN PRESSURE DURING THAT TIME PERIOD WILL BE SEEN AS A LEAK IN THE SYSTEM. CONNECTIONS BETWEEN NEW PIPING AND EXISTING PIPING SHALL BE TESTED USING SOAP AND WATER OR OTHER APPROVED LEAK-DETECTING FLUID.
 - ALL JOINTS AND WELDS SHALL BE LEFT EXPOSED FOR EXAMINATION DURING TEST.
 - REPAIR ANY LEAKS FOUND BY REMAKING THE JOINT. DO NOT USE CAULKING OR SIMILAR METHODS TO CORRECT LEAKS. AFTER LEAKS ARE REPAIRED, AGAIN TEST THAT PORTION OF THE SYSTEM AS DESCRIBED ABOVE.
- 25. TESTING OF PIPING**
- (A) ALL PIPING SHALL TESTED AT COMPLETION OF ROUGH-IN. TEST IN ACCORDANCE WITH THE FOLLOWING SCHEDULE TO SHOW NO LOSS IN PRESSURE OR VISIBLE LEAKS AFTER A MINIMUM DURATION OF FOUR (4) HOURS AT THE TEST PRESSURE INDICATED.
- (B) ISOLATE FROM THE SYSTEM ALL EQUIPMENT WHICH MAY BE DAMAGED BY TEST PRESSURE. TEST SCHEDULE AS FOLLOWS:
- | SYSTEM TESTED | TEST PRESSURE, PSIG | TEST WITH |
|--|---|-----------|
| ALL SOIL, WASTE, DRAIN AND VENT PIPING WITHIN BUILDINGS. | FILL WITH WATER TO TOP OF HIGHEST JOINT IN SYSTEM; ALLOW TO STAND 2 HOURS OR LONGER AS DIRECTED BY INSPECTOR. | WATER |
| ALL HOT TEMPERED AND COLD PIPING. | 150 PSIG | |

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MFGR. & MODEL No.	SPECIFICATIONS	ACCESSORIES
WH-1	NPE SERIES TANKLESS GAS WATER HEATER	NAVIENT NPE-240A2	TANKLESS WATER HEATER, UEF=0.95 RECOVERY = 5.6 GPM AT 67°F RISE INPUT = 13,300 - 199,900 BTU/HR DIMENSIONS: 17.3"W x 13.2"D x 27.4" HT POWER: 120V, 350W, 4A	1. PROVIDE TWO (3) WATER HEATERS CONNECTED IN SERIES WITH JOINT RECIRCULATION PUMP 2. COMBINE 3- 2" PVC INTAKE VENTS INTO A 3" PVC VENT TO GABLE END SIDEWALL INTAKE CAP 3. COMBINE 3- 2" PVC EXHAUST VENTS INTO A 3" PVC VENT RISER THROUGH ROOF TO ROOF CAP 4. PROVIDE HARDWIRED PUSH BUTTONS AND OCCUPANCY SENSORS TO ENERGIZE RECIRCULATION PUMP, LOCATION OF CONTROLS INDICATED ON PLANS. 5. DRAIN CONDENSATE INDIRECTLY TO LAVATORY TAILPIECE



WATER AND WASTE SERVICE CALCULATIONS 1105 SUTTON WAY									
FIXTURE COUNT/DHW (EXISTING)									
Fixtures	Quantity	Fixture Units (Ea.)		D.H.W. (GPH) (Ea.)	Fixture Units		D.H.W. (GPH)		
		Water	Waste		Water	Waste			
Water Closet FT	3	2.5	4	0	7.5	12	0		
Lavatory	2	1	1	6	2	2	12		
Urinal	1	5	3	0	5	3	0		
Kitchen Sink	1	1.5	3	20	1.5	3	20		
Hose Bibbs	2	1.5	2	0	3	4	0		
Total	9				19	24	32		
Hot Water FU's	3.5 X 0.75 = 2.6 (2.5 GPM)								
Peak Flow =	15	(GPM) (Ref. Chart A-3 2022 CPC)							
FIXTURE COUNT/DHW (PROPOSED ADDED)									
Fixtures	Quantity	Fixture Units (Ea.)		D.H.W. (GPH) (Ea.)	Fixture Units		D.H.W. (GPH)		
		Water	Waste		Water	Waste			
Water Closet FT	2	2.5	4	0	5	8	0		
Lavatory	2	1	1	6	2	2	12		
Shower	4	2	3	30	8	12	120		
Washer/Lau Sink	4	4	3	30	16	12	120		
Mop Sink	1	3	3	30	3	3	30		
Hose Bibbs	0	1.5	2	0	0	0	0		
Total	13				34	37	282		
Hot Water FU's	29 X 0.75 = 22 (16 GPM)								
Peak Flow =	22	(GPM) (Ref. Chart A-3 2022 CPC)							
Meter Total									
Water Fixture Units	53								
Peak Flow	30								
Pressure Available at Site						64 psi			
Pressure Booster						0 psi			
Total Available Pressure						64 psi			
3/4" Meter Loss at 30 GPM						7.5 psi			
Elevation Rise (Ft)						15 FT			
Backflow Preventer Loss						10 psi			
Required Residual Pressure required for WC						25 psi			
Equivalent pipe length from meter to most remote fixture						150 ft			
Friction Loss Available Pressure						15.0 psi			
Maximum Allowable Friction Loss (psi/100Ft)						10.0			
Minimum required water pipe size (inches)						1-1/2			
Minimum required waste pipe size (inches)						4			
Piping Outside the Building -						Sched. 40 PVC			
Piping downstream of SOV -						PEX			



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FAX (530) 265-2213



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1105 SUTTON WAY
GRASS VALLEY, CA 95945

PLUMBING NOTES AND SPECIFICATIONS

Project Title:

Project Location:

Sheet Title:

Revisions:

No.	Date:	By:	Description:
-	-	-	-
-	-	-	-

Plot Date: 6/5/2023

Job # 23-153

Scale as noted

Date 1st Issued N/A

Sheet Number P0.1



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1105 SUTTON WAY
GRASS VALLEY, CA 95945

1ST FLOOR PLUMBING PLAN - W,V&G

Project Title:

Project Location:

Sheet Title:

Revisions:

No.	Date:	By:	Description:
-	-	-	-
-	-	-	-

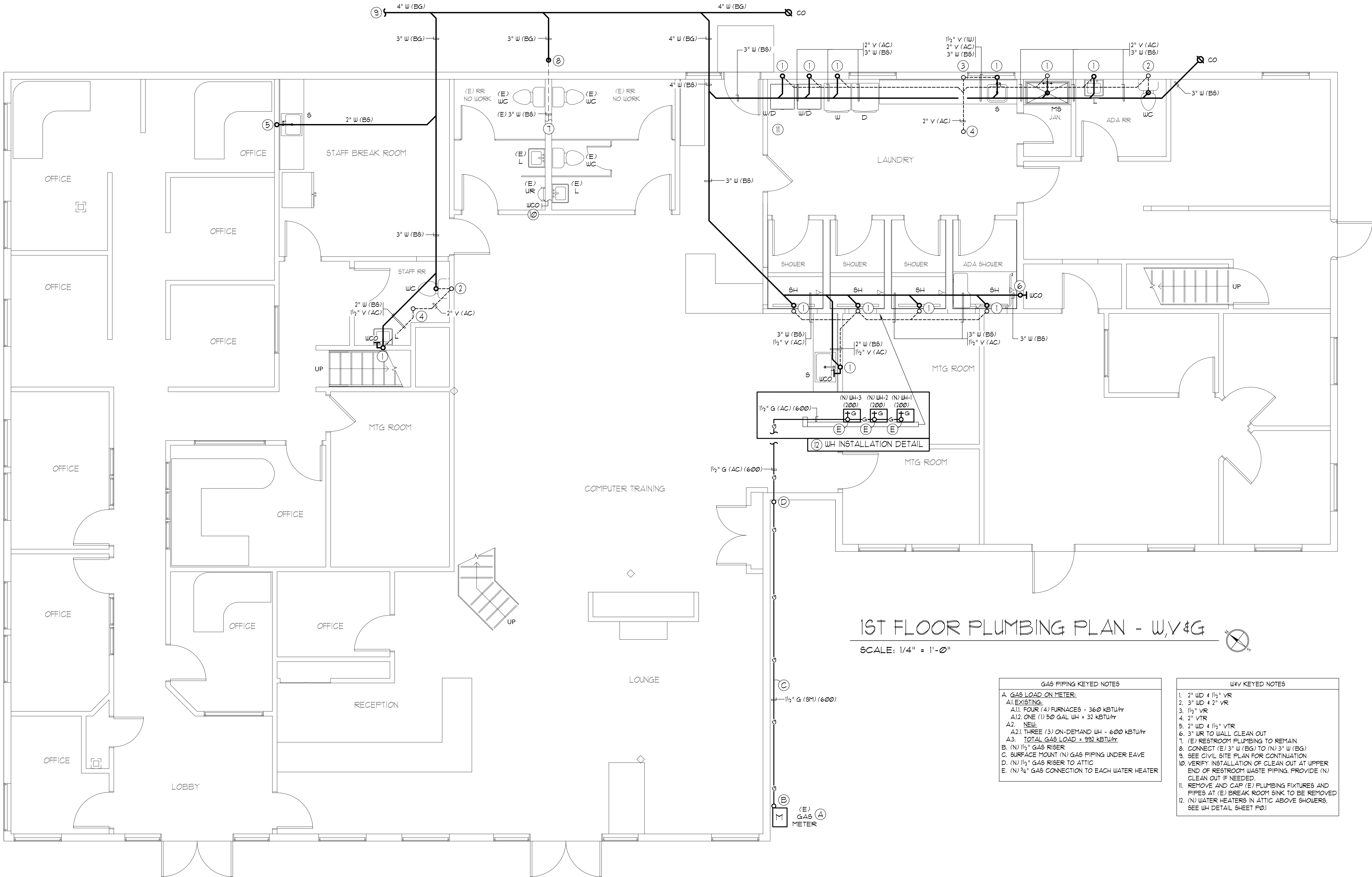
Plot Date: 6/5/2023

Job # 23-153

Scale as noted

Date 1st Issued N/A

Sheet Number P1.1





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1105 SUTTON WAY
GRASS VALLEY, CA 95945

1ST FLOOR PLUMBING PLAN - WATER

Project Title:

Project Location:

Sheet Title:

Revisions:

No.	Date:	By:	Description:
-	-	-	-
-	-	-	-

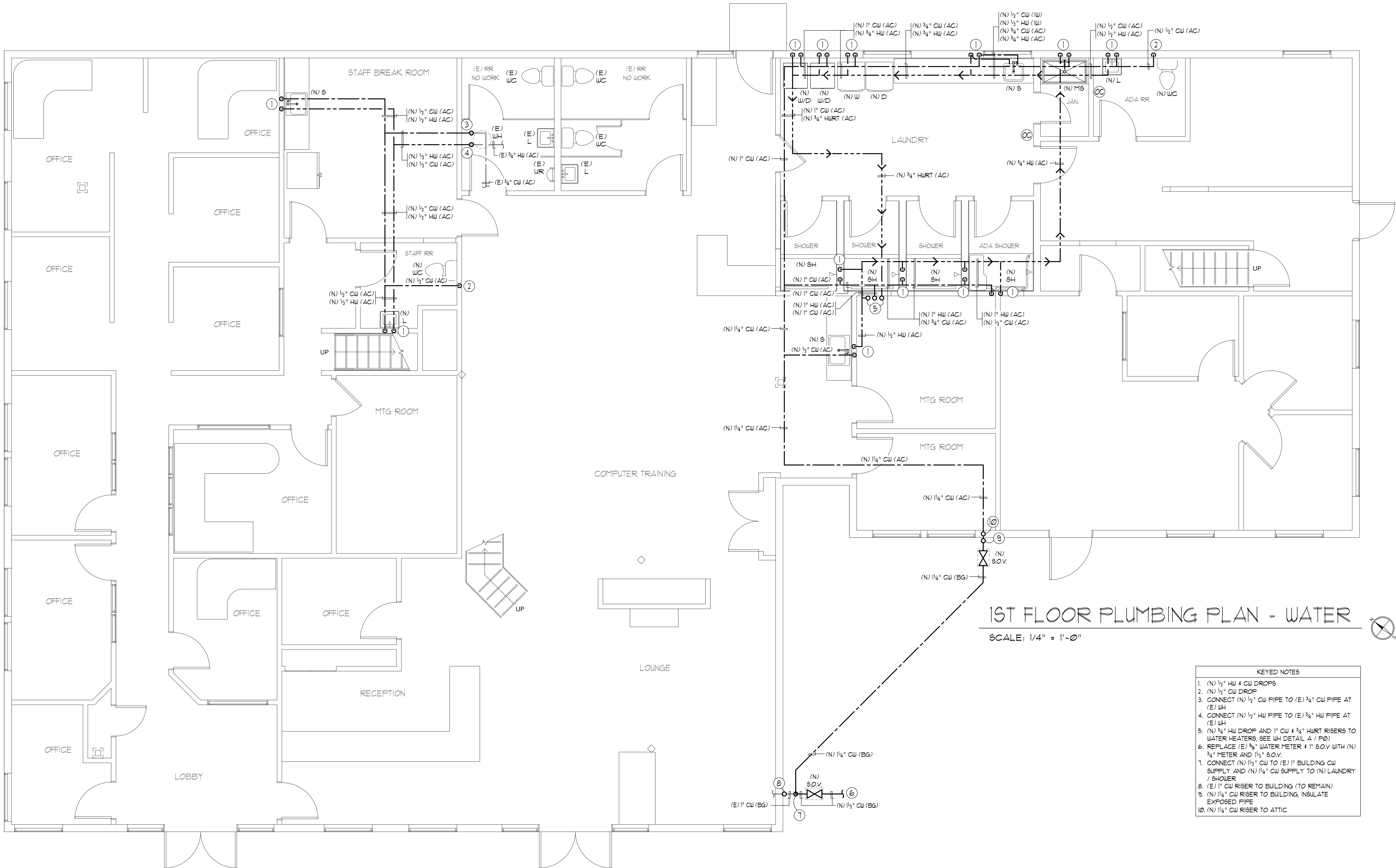
Plot Date: 6/5/2023

Job # 23-153

Scale as noted

Date 1st Issued N/A

Sheet Number P1.2





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SCHEMATIC DESIGN

Stamp:



A circular professional engineer seal for the State of California. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two stars. The center of the seal contains the name "JAMES A. O'CONNELL", the license number "No. 16872", and the expiration date "EXP: 03/31/25". A handwritten signature is written over the seal.

[illegible]

Date: Issue Date

Drawn By: JL/JP

ONE-LINE & PANEL SCHEDULE & NOTES

E1.0

AMPS @ 208Y/120V-3φ-4W 271

SCALE: NONE

⊙ SPECIAL OUTLET. SEE PLANS FOR SPECIFICATION



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[illegible]

E2.0





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SCHEMATIC DESIGN

[illegible]

Drawn By: JL/J

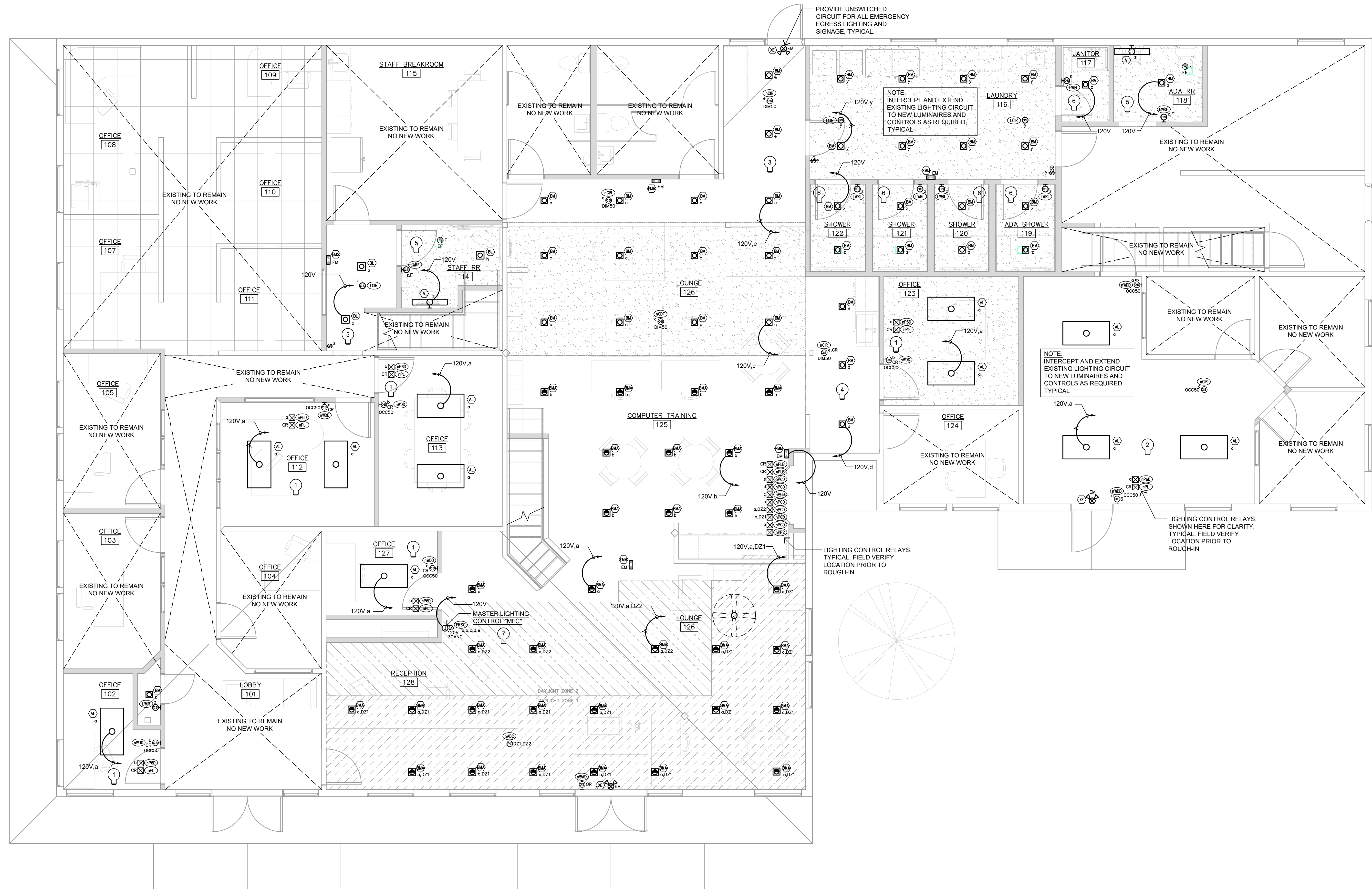
E2.1





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E3.0



1 LIGHTING PLAN

7/26/2023 3:36 PM - E3.0 LIGHTING PLAN.DWG

7/26/2023 3:36 PM - E3.1 LIGHT FIXTURE & CONTROL SCHEDULES.DWG

LIGHTING GENERAL NOTES:

1. ALL EMERGENCY & EXIT SIGN LUMINAIRES SHALL BE CONNECTED TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES W/ EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED & CONTROLLED W/ THE AREA LIGHTING. HOWEVER, THEIR EMERGENCY DRIVERS SHALL BE CONNECTED UPSTREAM OF THE AREA LIGHT SWITCH, LIGHTING CONTROL PANEL OR RELAY. FIXTURES ARE TO REMAIN ON FOR NOT LESS THAN 90 MINUTES PER NATIONAL ELECTRIC CODE REQUIREMENTS.
2. IT IS THE INTENT OF THESE CONSTRUCTION DOCUMENTS THAT ALL CONDUIT IS TO BE INSTALLED WITHIN WALLS, ABOVE CEILINGS, & CONCEALED WHERE POSSIBLE.
3. COORDINATE ALL MOUNTING HEIGHTS OF CORD, PENDANT, OR WALL HUNG LUMINAIRES W/ ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN OF ELECTRICAL BOXES.
4. ELECTRICIAN TO VERIFY LUMINAIRE DIMMING CONTROLS & TO PROVIDE NECESSARY WIRING & DEVICES REQUIRED FOR DIMMING OPERATION.
5. ALL LUMINAIRE & FIXTURE DRIVERS TO BE CONCEALED IN ACCESSIBLE LOCATIONS, OUT OF DIRECT VIEW OF BUILDING OCCUPANTS.
6. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS ACUITY BRANDS SENSOR SWITCH & nLIGHT DIGITAL LIGHTING SYSTEM. ELECTRICAL CONTRACTOR TO SEE MANUFACTURER SHOP DRAWINGS & DESIGN FOR A COMPLETE AN OPERATIONAL SYSTEM. PROVIDE ALL HARDWARE, SET-UP, PROGRAMMING, ETC., PER OWNER & TITLE-24 REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	V	LAMPS	W	DIMMING	MOUNTING	REMARKS
AL	2FT x 4FT SURFACE MOUNTED LED TROFFER w/ 0-10V DIMMING, (MEDIUM SETTING)	LITHONIA CPX 2X4 AL06 SWW7 M2 w/ 2X4SMKSH	120V	LED 5,000 LUMENS 3000K, 90 CRI	45W	0-10V	SURFACE	
BM	6" DIA. RECESSED DOWNLIGHT with REGRESSED TRIM, WHITE	LITHONIA WF6 LED 30K 90CRI MW	120V	LED 950 LUMENS 3000K, 90 CRI	13W	REFER TO CUTSHEET	RECESSED	
BMA	6" DIA. RECESSED ADJUSTABLE DOWNLIGHT, WHITE	LITHONIA WF6 ADJ LED 30K 90CRI MW	120V	LED 930 LUMENS 3000K, 90 CRI	13W	REFER TO CUTSHEET	RECESSED	
V	36" OVER THE MIRROR VANITY LIGHT	LITHONIA FMVTSL 36IN MVOLT 30K 90CRI BN	120	LED 1,500 LUMENS 3500K, 80 CRI	25W	N/A	WALL ABOVE MIRROR	
EMS	TWIN HEAD EMERGENCY EGRESS LIGHT w/ 90 MIN. BATTERY BACK-UP	LITHONIA LIGHTING ELM2	MV	LED	3	N/A	UNIVERSAL	FIXTURE TO BE UNSWITCHED PER NEC REQUIREMENTS
EMM	TWIN HEAD EMERGENCY EGRESS LIGHT w/ 90 MIN. BATTERY BACK-UP, MEDIUM OUTPUT	LITHONIA LIGHTING ELM4	MV	LED	3	N/A	UNIVERSAL	FIXTURE TO BE UNSWITCHED PER NEC REQUIREMENTS
XE	COMBO LED EXIT & TWIN HEAD EMERGENCY LIGHT SIGN WITH 90 MIN. BATTERY BACK-UP	LITHONIA LIGHTING LHQM LED G	MV	LED	4	N/A	UNIVERSAL	FIXTURE TO BE UNSWITCHED PER NEC REQUIREMENTS

LINE VOLTAGE LIGHTING CONTROL SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	OPERATION	REMARKS
LWID	WALL MOUNTED SINGLE POLE SWITCH w/ 0-10V DIMMING	SENSOR SWITCH # sPDDMRB-WH	MANUAL ON / VACANCY OFF / 0-10V DIMMING	
LWR	WALL MOUNTED SINGLE POLE SWITCH w/ INTEGRATED LINE VOLT. INFRARED OCC. SENSOR	SENSOR SWITCH # WSX WH	MANUAL ON / VACANCY OFF	
LWRL	WALL MOUNTED SINGLE POLE SWITCH w/ INTEGRATED LINE VOLT. IR OCC. SENSOR, WET	SENSOR SWITCH # WSX WH LT	AUTO ON / VACANCY OFF	
LWDT	WALL MOUNTED SINGLE POLE SWITCH w/ INTEGRATED LINE VOLT. DUAL TECH OCC. SENSOR	SENSOR SWITCH # WSX PDT WH	MANUAL ON / VACANCY OFF	
LWRD	WALL MOUNTED 6-18V DIMMER SWITCH w/ INTEGRATED DUAL TECH OCC. SENSOR	SENSOR SWITCH # WSX PDT-D WH	AUTO-ON / VACANCY OFF AUTO-ON 50% / VACANCY OFF	
LWRF	WALLBOX MOUNTED INFRARED OCCUPANCY SENSOR WITH LIGHT & FAN CONTROL	ABC - SENSOR SWITCH WSX 2P FAN WH	POLE 1 = FAN; AUTO ON / AUTO OFF POLE 2 - LIGHT; AUTO ON / VACANCY OFF	
LWDD	WALL MOUNTED 6-18V DIMMER SWITCH w/ INTEGRATED DUAL TECH OCC. SENSOR	SENSOR SWITCH # WSX PDT-D WH	AUTO-ON / VACANCY OFF AUTO-ON 50% / VACANCY OFF	
LCIR	CEILING MOUNTED INFRARED RANGE OCCUPANCY SENSOR	SENSOR SWITCH # CMR9 WH	AUTO-ON / VACANCY OFF	
LCRX	CEILING MOUNTED INFRARED EXTENDED RANGE OCCUPANCY SENSOR	SENSOR SWITCH # CMR 10 WH	AUTO-ON / VACANCY OFF	
LCDT	CEILING MOUNTED DUAL-TECH OCCUPANCY SENSOR	SENSOR SWITCH # CMR 9 WH	AUTO-ON / VACANCY OFF	

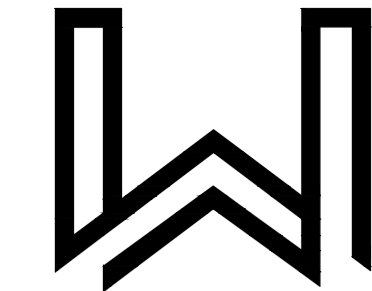
LOW VOLTAGE LIGHTING CONTROL SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	OPERATION	REMARKS
nWID	nLIGHT SINGLE POLE DIMMING WALL SWITCH	ACUITY BRANDS CONTROLS - nLIGHT nPDDM DX WH	MANUAL ON / OFF & DIMMING	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
nW2D	nLIGHT DUAL POLE DIMMING WALL SWITCH	ACUITY BRANDS CONTROLS - nLIGHT nPDDM 2P DX WH	MANUAL ON / OFF & DIMMING	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
nWRD	nLIGHT SINGLE POLE DIMMING WALL SWITCH w/ INTEGRAL INFRARED OCCUPANCY SENSOR	ACUITY BRANDS CONTROLS - nLIGHT nWSXA LV DX WH	MANUAL OR AUTO ON / OFF & DIMMING	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
nWDD	nLIGHT SINGLE POLE DIMMING WALL SWITCH w/ INTEGRAL DUAL-TECH OCC. SENSOR	ACUITY BRANDS CONTROLS - nLIGHT nWSXA PDT LV DX WH	MANUAL OR AUTO ON / OFF & DIMMING	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
nCIR	nLIGHT CEILING MOUNT INFRARED OCCUPANCY SENSOR	ACUITY BRANDS CONTROLS - nLIGHT nCM 9 RJB	DETERMINES OCCUPANCY AND VACANCY OF A ROOM OR AREA	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
nCRX	nLIGHT RECESSED IN CEILING MOUNT INFRARED OCCUPANCY SENSOR	ACUITY BRANDS CONTROLS - nLIGHT nCM 10 RJB	DETERMINES OCCUPANCY AND VACANCY OF A ROOM OR AREA	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
nCDT	nLIGHT CEILING MOUNT DUAL TECH OCCUPANCY SENSOR	ACUITY BRANDS CONTROLS - nLIGHT nCM PDT 9 RJB	DETERMINES OCCUPANCY AND VACANCY OF A ROOM OR AREA	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
nADC	nLIGHT DUAL ZONE AUTOMATIC DIMMING CONTROL PHOTOCELL	ABC - nLIGHT nCM ADCX DZ RJB	PROVIDES FOR TITLE-24 REQUIRED DAYLIGHT HARVESTING	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
nPP2	nLIGHT POWER PACK	ABC - nLIGHT nPP20	PROVIDES FOR ON/OFF OF LIGHTING LOAD	PROVIDE ALL CAT 5 CONNECTIONS AND PROGRAMMING
FRSC	TOUCHSCREEN LIGHTING CONTROL INTERFACE	ABC - nLIGHT FCS 7TSN X (scba)	PROVIDES FOR ASTRONOMICAL TIMECLOCK FUNCTION AND SCENE CONTROLS	PROVIDE 120V POWER & ALL CAT 5 CONNECTIONS AND PROGRAMMING

LIGHTING CONTROL NOTES (CA-24) :

NOTE: ALL LIGHTING TO BE PROGRAMMED AND CONTROLLED TO MEET TITLE-24 REQUIREMENTS

1. SMALL OFFICE <250 S.F.
130.1 (a) AREA LIGHTING CONTROL ■ YES: WALL CONTROL □ N/A □ EXCEPTION:
130.1 (b) MULTI-LEVEL LIGHTING CONTROL ■ YES: WALL DIMMER □ N/A □ EXCEPTION:
130.1 (c) AUTOMATIC SHUT-OFF CONTROL ■ YES: SENSOR □ N/A □ EXCEPTION:
130.1 (d) AUTOMATIC DAYLIGHT CONTROL □ YES □ N/A ■ EXCEPTION: <120W IN EITHER ZONE
130.1 (e) DEMAND RESPONSE CONTROL ■ YES: VIA NETWORK □ N/A □ EXCEPTION:
130.5 (d) CONTROLLED RECEPTACLES ■ YES: SENSOR □ N/A □ EXCEPTION:
SEQUENCE OF OPERATION: (STAND ALONE LOW VOLTAGE CONTROL NETWORK).
PROGRAM: LIGHTING TO AUTO-ON TO 50% VIA OCCUPANCY DETECTION, MANUAL PUSH OF WALL SWITCH FOR 100%. VACANCY-AUTO-OFF AFTER 15 MINS; CONTROLLED RECEPTACLES TO BE OCCUPANCY-ON / VACANCY-OFF AFTER 15 MINS.
2. LARGE OPEN OFFICE >250 S.F.
130.1 (a) AREA LIGHTING CONTROL ■ YES: WALL CONTROL □ N/A □ EXCEPTION:
130.1 (b) MULTI-LEVEL LIGHTING CONTROL ■ YES: WALL DIMMER □ N/A □ EXCEPTION:
130.1 (c) AUTOMATIC SHUT-OFF CONTROL ■ YES: SENSOR □ N/A □ EXCEPTION:
130.1 (d) AUTOMATIC DAYLIGHT CONTROL □ YES □ N/A ■ EXCEPTION: <120W IN DAY ZONE 1 OR 2
130.1 (e) DEMAND RESPONSE CONTROL □ YES □ N/A ■ EXCEPTION: <4000W
130.5 (d) CONTROLLED RECEPTACLES ■ YES: SENSOR □ N/A □ EXCEPTION:
SEQUENCE OF OPERATION: (STAND ALONE LOW VOLTAGE CONTROL NETWORK).
PROGRAM: LIGHTING TO AUTO-ON TO 50% VIA OCCUPANCY DETECTION, MANUAL PUSH OF WALL SWITCH FOR 100%. VACANCY-AUTO-OFF AFTER 15 MINS; CONTROLLED RECEPTACLES TO BE OCCUPANCY-ON / VACANCY-OFF AFTER 15 MINS.
3. CORRIDOR
130.1 (a) AREA LIGHTING CONTROL ■ YES: WALL CONTROL □ N/A □ EXCEPTION:
130.1 (b) MULTI-LEVEL LIGHTING CONTROL ■ YES: OCC. SENSOR □ N/A □ EXCEPTION:
130.1 (c) AUTOMATIC SHUT-OFF CONTROL ■ YES: OCC. SENSOR □ N/A □ EXCEPTION:
130.1 (d) AUTOMATIC DAYLIGHT CONTROL □ YES □ N/A □ EXCEPTION:
130.1 (e) DEMAND RESPONSE CONTROL □ YES □ N/A ■ EXCEPTION: < 4,000W
SEQUENCE OF OPERATION: (LINE VOLTAGE STAND ALONE LIGHTING CONTROL NETWORK).
PROGRAM LIGHTING TO 100% ON / OFF AFTER 15 MINS.
4. BREAK ROOM
130.1 (a) AREA LIGHTING CONTROL ■ YES: WALL CONTROL □ N/A □ EXCEPTION:
130.1 (b) MULTI-LEVEL LIGHTING CONTROL ■ YES: WALL DIMMER □ N/A □ EXCEPTION:
130.1 (c) AUTOMATIC SHUT-OFF CONTROL ■ YES: SENSOR □ N/A □ EXCEPTION:
130.1 (d) AUTOMATIC DAYLIGHT CONTROL □ YES □ N/A ■ EXCEPTION: <120W IN ZONE 1 OR 2
130.1 (e) DEMAND RESPONSE CONTROL □ YES □ N/A □ EXCEPTION:
130.5 (d) CONTROLLED RECEPTACLES ■ YES: SENSOR □ N/A □ EXCEPTION:
SEQUENCE OF OPERATION: (STAND ALONE LOW VOLTAGE LIGHTING CONTROL NETWORK).
PROGRAM: LIGHTING TO AUTO-ON TO 50% VIA OCCUPANCY DETECTION, MANUAL PUSH OF WALL SWITCH FOR 100%. VACANCY-AUTO-OFF AFTER 15 MINS; CONTROLLED RECEPTACLES TO BE OCCUPANCY-ON / VACANCY-OFF AFTER 15 MINS.
5. SINGLE STALL RESTROOM
130.1 (a) AREA LIGHTING CONTROL ■ YES: WALL SWITCH □ N/A □ EXCEPTION:
130.1 (b) MULTI-LEVEL LIGHTING CONTROL □ YES □ N/A ■ EXCEPTION: NOT REQUIRED
130.1 (c) AUTOMATIC SHUT-OFF CONTROL ■ YES: SENSOR □ N/A □ EXCEPTION:
130.1 (d) AUTOMATIC DAYLIGHT CONTROL □ YES □ N/A □ EXCEPTION:
130.1 (e) DEMAND RESPONSE CONTROL □ YES □ N/A □ EXCEPTION:
SEQUENCE OF OPERATION: STAND ALONE ROOM - LINE VOLTAGE CONTROLS
POLE 1 - FAN; AUTO-ON OCCUPANCY / VACANCY OFF AFTER 15 MINS.
POLE 2 - LIGHT; MANUAL ON / VACANCY OFF AFTER 15 MINS.
6. OTHER ROOM
130.1 (a) AREA LIGHTING CONTROL ■ YES: WALL SWITCH □ N/A □ EXCEPTION:
130.1 (b) MULTI-LEVEL LIGHTING CONTROL □ YES □ N/A ■ EXCEPTION: <0.5W / SQ.FT.
130.1 (c) AUTOMATIC SHUT-OFF CONTROL ■ YES: SENSOR □ N/A □ EXCEPTION:
130.1 (d) AUTOMATIC DAYLIGHT CONTROL □ YES □ N/A ■ EXCEPTION: <120W IN ANY ZONE
130.1 (e) DEMAND RESPONSE CONTROL □ YES □ N/A □ EXCEPTION:
SEQUENCE OF OPERATION: STAND ALONE ROOM - LINE VOLTAGE CONTROLS
MANUAL-ON / VACANCY OFF AFTER 15 MINS.
7. LARGE COMMON AREA
130.1 (a) AREA LIGHTING CONTROL ■ YES: MASTER CONTROL □ N/A □ EXCEPTION:
130.1 (b) MULTI-LEVEL LIGHTING CONTROL ■ YES: MASTER DIMMER □ N/A □ EXCEPTION:
130.1 (c) AUTOMATIC SHUT-OFF CONTROL ■ YES: ASTRO TIMECLOCK □ N/A □ EXCEPTION:
130.1 (d) AUTOMATIC DAYLIGHT CONTROL ■ YES: AUTO DIM PC □ N/A ■ EXCEPTION:
130.1 (e) DEMAND RESPONSE CONTROL □ YES: VIA NETWORK □ N/A □ EXCEPTION:
130.5 (d) CONTROLLED RECEPTACLES ■ YES: SENSOR & T-CLOCK □ N/A □ EXCEPTION:
SEQUENCE OF OPERATION: (NETWORKED LOW VOLTAGE LIGHTING CONTROL NETWORK).
PROGRAM: LIGHTING TO AUTO-ON TO 100% OR PRESET OWNER LEVEL. VIA OCCUPANCY DETECTION OR MANUAL PUSH OF WALL SWITCH AUTO-OFF VIA TIMECLOCK OR MANUAL PUSH. CONTROLLED RECEPTACLES VIA TIMECLOCK.
2 HR AFTR HOURS OVERRIDE PER OCC SENSOR OR MANUAL PUSH.



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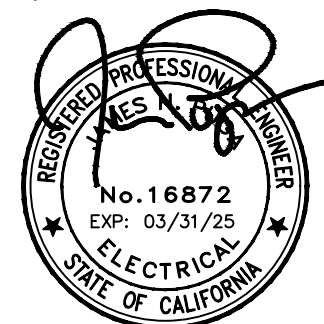
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No.	Description	Date											

Proj. No.: 23021

Date: Issue Date

Scale: AS NOTED

Drawn By: JL/JP

Drawing Title:

LIGHT FIXTURE &
CONTROL
SCHEDULES

Drawing Number:

E3.1

7/26/2023 3:36 PM - E4.0 ELECTRICAL SPECIFICATIONS.DWG

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1.01 WORK INCLUDED

- A. All labor, tools, and materials necessary to install, test, and place in operation complete and functional electrical systems, as shown on the plans and described herein.
- B. Secure all permits and pay all fees necessary for the execution and completion of this work.

1.02 DRAWINGS

The electrical layouts are generally diagrammatic. The location of outlets and equipment are approximate unless dimensioned. The exact locations and routing of conduits shall be governed by structural conditions and physical interferences and by the location of electrical terminations of equipment.

1.03 QUALITY ASSURANCE

- A. All work shall be in full accordance with the latest edition of the National Electrical Code, all local, state, and federal codes, and with the requirements of the serving utility companies.
- B. All electrical materials used on this project shall be best possible grade of their kinds, new, free from defects and, unless otherwise specifically noted, shall conform to applicable standards of National Electrical Manufacturers Association, the American National Standards Institute and Underwriters Laboratories, Inc. Each article of a kind shall be the standard product of a single manufacturer.
- C. Specific brand names and catalog numbers are used to describe materials in order to establish standards of performance and quality. The decision of the Architect shall govern as to what materials may be substituted, but the burden of proof as to the equivalency of any proposed substitution shall be upon the Contractor.

1.04 SUBMITTALS

Submit to the Architect a complete list of materials and equipment stating manufacturer's names, catalog numbers, etc. No materials shall be installed until final approval is given.

Guarantee all work for one year from date of acceptance against all defects in material, equipment and workmanship.

PART 2 PRODUCTS

2.01 RACEWAYS

- A. Rigid Steel Conduit: Galvanized, complying with specifications UL-6, ANSI C80.1, Federal WW-C-58IE or latest revisions.
- B. Intermediate Metallic Conduit (IMC): Galvanized, complying with specifications UL 1242, Federal WW-C-58IE of latest revisions.
- C. Electrical Metallic Tubing (EMT): Galvanized, complying with specifications UL 797, ANSI C.80.3, Federal WW-C-563 or latest revisions.
- D. Polyvinylchloride Conduit (PVC): Minimum Schedule 40.
- E. Steel Flexible Conduit: Galvanized interlocking spirally wound steel.
- F. Steel Liquidtight Flexible Conduit: Liquidtight, non-metallic, sunlight resistant jacket over flexible metal core.
- G. Electrical Non-Metallic Tubing (ENT): A non-metallic pliable corrugated raceway, resistant to moisture and chemicals.

2.02 RACEWAY FITTINGS

- A. Rigid Steel Conduit and IMC:
- Galvanized, waterproof, and threaded type.
- B. Electrical Metallic Tubing:
- Galvanized steel
 - Die cast
 - Compression ring type
 - Set screw type
- C. Polyvinylchloride and ENT:
- PVC Schedule 40, cemented type.
- D. Metallic Flexible Conduit:
- Galvanized, clamp, type, and approved for grounding.
- E. Liquidtight Flexible Metal Conduit:
- Galvanized, screw in type, approved for grounding.

2.03 WIRE AND CABLE

- A. Plainly marked with UL label, gauge, voltage and insulation type.
- B. General Wiring: 600V type "TW" of "THHN" Copper, minimum size #12 AWG.
- C. Feeders: 600V type "THW" Aluminum, or as shown on plans.

2.04 DEVICES

- A. Wall switches: "AC" rated, heavy duty, quiet type, rated 20 amperes at 120 volts AC. Special switches as noted.
- B. Convenience outlets: Rated 15 amperes at 120 volts AC, 3-wire groundable type, Leviton #5262 duplex or #5261 single. Special outlets shall be as noted on plans.
- C. Plates: Supply for all outlet or junction boxes, flush or surface. Two or more gangs in box shall have gang plates. Color of box covers to be selected by Architect.

PART 3 EXECUTION & APPLICATION

3.01 RACEWAY APPLICATION

- A. Rigid Steel Conduit and IMC:
- May be exposed, concealed, installed underground, or in concrete.
 - Shall be installed per the designation on the plans.
- B. Electrical Metallic Tubing:
- Shall be concealed in protected attic spaces, or hollow stud spaces.
 - May be exposed in mechanical and electrical rooms where designated on the plans.
- C. Polyvinylchloride Conduit:
- Shall be a minimum of 3/4".
 - Shall only be installed beneath grade or in concrete.
 - A Maximum of 4 feet of exposed or concealed PVC may extend from grade or the concrete slab to the bottom or a switchboard, panelboard, device box, or similar equipment in electrical rooms only.
 - A maximum of 18 inches of PVC may extend from the concrete slab to the first device box when concealed in a stud space.
 - PVC shall not be installed in fire rated areas or where subject to mechanical damage.
- D. Flexible Steel Conduit:
- May be used in interior, dry, and non-hazardous locations only.
 - Shall be used in lengths no longer than 3 feet for motors and other equipment requiring flexible connections.
 - Shall be used in lengths no longer than 6 feet for connection of light fixtures.
- E. Liquidtight Metallic Flexible Conduit:
- Shall be used as indicated in item "D" above for damp or wet locations.
- F. Electrical Non-Metallic Tubing:
- May be installed in buildings not exceeding three stories.
 - Shall be concealed in walls, ceilings, and floors having a minimum finish rating of 15 minutes.
 - Shall not be installed in fire rated and assembly areas.

3.02 RACEWAY INSTALLATION

- A. Rigid or intermediate metal conduit shall have threads filled with conductive sealant before screwing into fittings.
- B. Entire electrical raceway system shall form a continuous metallic electrical conductor from service point to every outlet, and shall be grounded by connection to main service ground conductor.
- C. Install conduit runs exposed to view parallel or at right angles to structural members, walls or building lines.
- D. Close open ends of conduit with factory made conduit seals during construction. Examine inside of each piece of conduit just before installation and remove any dirt or foreign objects.
- E. Support conduit with one-hole malleable factory made pipe straps, fastened with screws; nails shall not be used.

3.03 WIRE INSTALLATION

- A. Make joints, splices, taps and connections of conductors with solderless connectors.
- B. Provide grounding and bonding in accordance with applicable codes and regulations.
- C. Connect all air conditioning motors to conduit systems with sections of flexible conduit to facilitate removal of motor. Use approved fittings only.

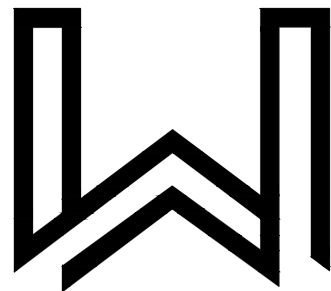
3.04 LIGHTING FIXTURE INSTALLATION

- A. Install fixtures complete with all necessary connectors and brackets. Remove all labels except UL label from exposed parts of fixtures. Clean fixtures upon project completion.
- B. Where structural members or mechanical equipment prevent installation of fixtures as shown, resulting layout shall be symmetrical within ceiling space and approved by the Architect.
- C. Install lamps of proper type.

3.05 TESTS

Test all systems upon completion of work to demonstrate that the equipment furnished and installed as connected functions electrically in the manner required.

END OF SPECIFICATION



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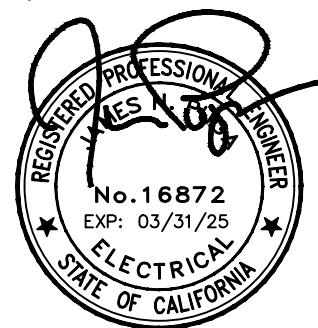
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Date	Description	No.																		

Proj. No.: 23021

Date: Issue Date

Scale: AS NOTED

Drawn By: JL/JP

Drawing Title:

ELECTRICAL
SPECIFICATIONS

Drawing Number:

E4.0

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION			
Indoor Lighting					
CERTIFICATE OF COMPLIANCE		NRCC-LT-E			
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)(2) for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)(4) for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes: dormitory and senior living facilities.					
Project Name: Placer County Resource Center remodel		Report Page: (Page 1 of 8)			
Project Address: 1105 Sutton Way, Grass Valley, CA 95945		Date Prepared: 2023-06-26T15:47:06-04:00			
A. GENERAL INFORMATION					
01	Project Location (city)	Grass Valley	04	Total Conditioned Floor Area (ft²)	3,399
02	Climate Zone	11	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
• Commercial Industrial					
B. PROJECT SCOPE					
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)(2) / 180.2(b)(4) for alterations.					
Scope of Work		Conditioned Spaces		Unconditioned Spaces	
01		02	03	04	05
My Project Consists of (check all that apply):		Calculation Method		Calculation Method	
☒ New Lighting System		Area Category Method		Area Category Method	
☐ New Lighting System - Parking Garage		N/A		N/A	
Total Area of Work (ft²)		3399			
Generated Date/Time: Documentation Software: Energy Code Ace					
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance					
Report Version: 2022.0.000					
Schema Version: rev 20220101					
Compliance ID: 116667-0623-0003					
Report Generated: 2023-06-26 12:47:09					

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name: Placer County Resource Center remodel

Report Page: (Page 4 of 8)

Date Prepared: 2023-06-26T15:47:06-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky Light Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
OFFICES	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
SM. "OTHER" SPACES	All Other Space Types	Readily Accessible	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
SINGLE STALL RESTROOM	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	☐	☐
HALLWAY	Corridor	Auth. Personnel	Dimmer	Auto. Time Switch	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
OPEN OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
LAUNDRY	Laundry	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	☐	☐
Lg multi purpose	Convention, Conference, Multipurpose and Meeting Center	Auth. Personnel	Dimmer	Auto. Time Switch	Included	NA: General Ltg < 120W	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		
							E3.0		

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Indoor Lighting

CERTIFICATE OF COMPLIANCE

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Placer County Resource Center remodel

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CALIFORNIA ENERGY COMMISSION

NRCC-LTE-E

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)(1) / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					=	Total Allowed (Watts)	≥	Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			=	Total Adjusted (Watts)	=	05 must be ≥ 08 140.6 / 170.2(e)					
	01	02	03	04	05				06	07	08					09				
	Complete Building 140.6(c)(1)	Area Category 140.6(c)(2) / 170.2(e)(4)	Area Category Additional 140.6(c)(3) / 170.2(e)(4)(b) (+)	Tailored 140.6(c)(3) / 170.2(e)(4)(b) (+)	PAF Lighting Control Credits 140.6(a)(2) / 170.2(e)(1B) (-)				Total Designed (Watts)	Total Adjusted (Watts)	09									
																(See Table I)	(See Table J)	(See Table K)	(See Table F)	(See Table P)
Conditioned	2,104.35				2,104.35	≥	1,377			1,377		COMPLIES								
Unconditioned						≥						COMPLIES								

Controls Compliance (See Table H for Details)

COMPLIES

Rated Power Reduction Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:

Placer County Resource Center remodel

Report Page:

Date Prepared:

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NRCC-LT-E

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CALIFORNIA ENERGY COMMISSION

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying with the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
OFFICES	Office (≤250 square feet)	0.65	619	402.35	No	No
SM, "OTHER" SPACES	All Other Space Types	0.4	44	17.6	No	No
LAUNDRY	Laundry	0.45	252	113.4	No	No
SINGLE STALL RESTROOM	Restroom	0.65	355	230.75	No	No
OPEN OFFICE	Office (>250 square feet)	0.6	340	204	No	No
Lg multi purpose	Convention, Conference, Multipurpose and Meeting Center	0.75	1,515	1,136.25	No	No
TOTALS:			3,125	2,104.35	See Tables I, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

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STATE OF CALIFORNIA

INDOOR LIGHTING

CALIFORNIA ENERGY COMMISSION

NRCC-LTH-6

(Page 3 of 8)

CERTIFICATE OF COMPLIANCE

Project Name:

Placer County Resource Center remodel

Report Page:

Design Prepared:

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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit / hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. / Using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
AL	2 x4 led flat panel	No	NA	45	Mfr. Spec	11	No	495	☐	☐
BM	LED Downlight	No	NA	13	Mfr. Spec	33	No	429	☐	☐
BMA	LED DOWNLIGHT	No	NA	13	Mfr. Spec	31	No	403	☐	☐
V	36" VANITY FIXTURE	No	NA	25	Mfr. Spec	2	No	50	☐	☐
Total Designed Watts: CONDITIONED SPACES								1,377		

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)48 / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03
		Field Inspector
		Pass
		Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐

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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTH-18 (Page 6 of 8)
Project Name: Placer County Resource Center remodel	Report Page:	
	Date Prepared:	2023-06-26T15:47:06-04:00
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING		
This section does not apply to this project.		
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS		
This section does not apply to this project.		
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE		
This section does not apply to this project.		
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))		
This section does not apply to this project.		
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS		
This section does not apply to this project.		
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS		
This section does not apply to this project.		
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)		
This section does not apply to this project.		
T. DWELLING UNIT LIGHTING		
This section does not apply to this project.		

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE		(Page 7 of 8)	
Project Name: Placer County Resource Center remodel	Report Page:		
	Date Prepared:	2023-06-26T15:47:06-04:00	

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
<i>Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E.</i> <i>Additional Remarks. These documents must be provided to the building inspector during construction and can be found online</i>	
Form/Title	
NRCC-LTI-E - Must be submitted for all buildings	

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
<i>Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E.</i> <i>Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html</i>	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	OFFICES; SM, "OTHER" SPACES; SINGLE STALL RESTROOM; HALLWAY; OPEN OFFICE; LAUNDRY; Lg multi purpose
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Lg multi purpose

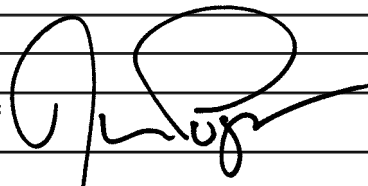
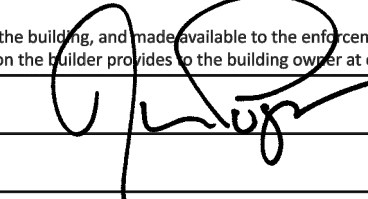
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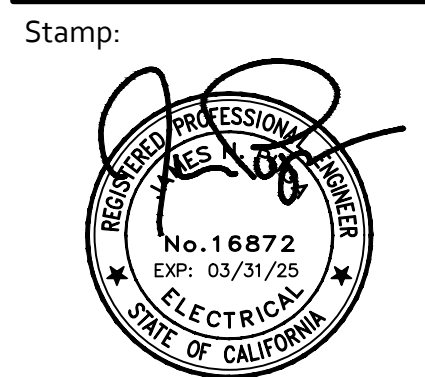
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STATE OF CALIFORNIA Inoor Lighting		CALIFORNIA ENERGY COMMISSION NRCC-LTH-4 (Page 8 of 8)	
CERTIFICATE OF COMPLIANCE			
Project Name: Placer County Resource Center remodel	Report Page:		
Project Address: 1105 Sutton Way, Grass Valley, CA 95945	Date Prepared:	2023-06-26T15:47:06-04:00	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Jim Puga		Documentation Author Signature: 	
Company: Up-Light Electrical Engineering, Inc.		Signature Date: 2023-06-26	
Address: 3130 Twitchell Island Road City/State/Zip: West Sacramento, CA 95601		CEA/HERS Certification Identification (if applicable): 916-826-1824	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
- The information provided on this Certificate of Compliance is true and correct. - I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) - The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. - The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. - I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building or made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides for the building owner at occupancy.			
Responsible Designer Name: Jim Puga		Responsible Designer Signature: 	
Company: Up-Light Electrical Engineering, Inc.		Date Signed: 2023-06-26	
Address: 3130 Twitchell Island Road City/State/Zip: West Sacramento, CA 95601		License: E10872 Phone: 916-826-1824	
Generated Date/Time: Documentation Software: Energy Code Ace			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.0.003 Schema Version: rev 20220101 Compliance ID: 116667-0623-0003 Report Generated: 2023-06-26 12:47:09			



NC - HOMELESS
RESOURCE
CENTER

SCHEMATIC DESIGN



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[illegible]

Proj. No.: 2302

Date: Issue DaScale: AS NOTE

Drawn By: JL/J

Drawing Title:

TITLE-24 FORMS

Drawing Number:

E5.0

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-4

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

Project Name: NC Homeless Resource Center

Report Page: (Page 1 of 9)

Project Address: 1105 Sutton Way

Date Prepared: 6/6/2023

A. GENERAL INFORMATION

01 Project Location (city) Grass Valley

04 Total Conditioned Floor Area 468

02 Climate Zone 16

05 Total Unconditioned Floor Area 0

03 Occupancy Types Within Project 06 # of Stories (Habitable Above Grade) 1

Support Areas All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01 Air System(s)

02 Wet System Components

03 Dry System Components

04 Heating Air System

05 Water Economizer

06 Air Economizer

07 Cooling Air System

08 Pumps

09 Electric Resistance Heat

10 Mechanical Controls

11 System Piping

12 Fan Systems

13 Mechanical Controls (existing to remain, altered or new)

14 Cooling Towers

15 Ductwork (existing to remain, altered or new)

16 Chillers

17 Ventilation

18 Boilers

19 Zonal Systems/ Terminal Boxes

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: EnergyPro-3105-0623-0101

Report Generated: 2023-06-06 11:21:21

Schema Version: rev 20220101

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Mechanical Systems

CERTIFICATE OF COMPLIANCE

NRCC-MCH-4

Project Name: NC Homeless Resource Center

Report Page: (Page 2 of 9)

Project Address: 1105 Sutton Way

Date Prepared: 6/6/2023

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01 System Summary 110.1, 110.2, 140.4, 170.2(c)

02 AND

03 Fans/Economizers 140.4(c), 140.4(e), 170.2(c)

04 AND

05 Ventilation 110.2, 120.2, 140.4(f), 170.2(c)

06 AND

07 Terminal Box Controls 140.4(g), 170.2(c)(4)

08 AND

09 Cooling Towers 110.2(e)(2)

Compliance Results

Yes AND

MANDATORY MEASURES COMPLIANCE (See Table Q for Details)

COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name FC-5

02 Quantity 1

03 System Serving Single zone

04 System Status New/ Addition

05 Space Type

06 Utilizing Recovered Heat

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Project Name: NC Homeless Resource Center

Report Page: (Page 3 of 9)

Project Address: 1105 Sutton Way

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01 Name or Item Tag FC-5

02 Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3a(1) Unitary Heat Pumps

03 Equipment Type per Tables 110.2 and Title 20 Air-cooled, split (1phase)

04 Smallest Size Available¹ 140.4(a) and 170.2(c)1 Yes

05 Heating Output^{2,3} 2.57

06 Cooling Output^{2,3} 11

07 Load Calculations^{1,4} 16.41

08 Total Sensible Cooling Load (kBtu/h) 12.5

09 Total Latent Cooling Load (kBtu/h) 40.36

10 Total Cooling Load (kBtu/h) 10.49

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are exempted.

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

³If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

⁴Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01 Name or Item Tag FC-5

02 Size Category (Btu/h) <65,000

03 Rating Condition (°F)

04 Efficiency Unit HSPF

05 Minimum Efficiency Required per Tables 110.2 / Title 20 7.5

06 Design Efficiency 10

07 Efficiency Unit SEER

08 Minimum Efficiency Required per Tables 110.2 / Title 20 14.3

09 Design Efficiency 21

G. PUMPS

This section does not apply to this project.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

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Project Name: NC Homeless Resource Center

Report Page: (Page 4 of 9)

Project Address: 1105 Sutton Way

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(f), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

01 System Name FC-5

02 Quantity 1

03 Fan System Status New

04 System Zoning

05 All other system s

06 Serving Dwelling Units

07 Not Serving Dwelling Units

08 Fan System Airflow (cfm) 560

09 Site Elevation

10 6,200

11 Economizer

NA: <=33 kBtu/h cooling

01 Fan Name or Item Tag SF

02 Fan Type Supply

03 Qty 1

04 Component

05 Airflow through Component (%) 560

06 Water Gauge (wg) 78

07 Component Allowance

08 Fan Allowance (watt/(cfm)) 78

09 Design Electrical Input Power Method

10 Motor Nameplate Horsepower

11 Design Electrical Input Power (kW) 0.06

NA: <=33 kBtu/h cooling

01 Fan System Name

02 Qty

03 Hours of Operation per Year

04 Design Supply Airflow Rate

05 Outdoor Airflow

06 % Outdoor Air at Full Design Airflow

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NA: <=33 kBtu/h cooling

01 Fan System Name

02 Qty

03 Hours of Operation per Year

04 Design Supply Airflow Rate

05 Outdoor Airflow

06 % Outdoor Air at Full Design Airflow

07 Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(a) & 170.2(c)4D

08 Exhaust Air Heat Recovery 140.4(a) & 170.2(c)4D

09 Type Of Heat Recovery Recovery

10 Required Recovery Ratio

11 Energy Recovery Bypass

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09 Type Of Heat Recovery Recovery

10 Required Recovery Ratio

11 Energy Recovery Bypass

NA: <=33 kBtu/h cooling

01 Fan System Name

02 Qty

03 Hours of Operation per Year

04 Design Supply Airflow Rate

05 Outdoor Airflow

06 % Outdoor Air at Full Design Air

Domestic Water Heating System

STATE OF CALIFORNIA
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 130.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

NRC-PLB-8

Project Name: NC Homeless Resource Center

Project Address: 1105 Sutton Way

Report Date: 6/4/2023

(Page 1 of 6)

A. GENERAL INFORMATION

01 Project Location (city/town): Grass Valley	02 Climate Zone: 16
03 Occupancy Types Within Project (select all that apply):	

● Support Areas
● All Other Occupancies

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.1 / 170.2(d) and 141.0(d) / 180.1 or 141.0(d) / 180.2 for additions or alterations. Solar water heating systems are documented on the NRC-SAB compliance document. Combined hydronic water heating systems are documented on the NRC-MCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type ^{1,2}	System Components
☒ New system (DHW system being installed for the first time in newly constructed building) ☐ System Alteration (equipment, distribution or controls)	Individual System (serving nonresidential spaces)	☒ Equipment ☒ Distribution ☒ Controls ☐ Equipment ☐ Distribution ☐ Controls

¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
²Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
³DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.02.00
 Schema Version: Rev 20220101

Compliance ID: Ene-gprh-3103-0623-0102
 Report Generated: 2023-06-06 11:36:02

STATE OF CALIFORNIA

Domestic Water Heating System

CERTIFICATE OF COMPLIANCE

Project Name:

NC Homeless Resource Center

Report Page:

Page 4 of 6

Project Address:

1105 Station Way

Date Prepared:

6/6/2023

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 180.4(c) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☒	☐	☐	Systems with capacity > 167,000 BTU/h equipped with outlet temperature controls per 110.3(c)(1) unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)(2) unless systems serve healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b) for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RAA.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3) on all newly installed commercial boilers as follows: - Boilers with input capacity > 2.5 MMbtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure - Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMbtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following - The fan motor shall be driven by a variable speed drive OR - The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (≥gate) 5MMbtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack) oxygen volume concentrations <= 3% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title

NRCI-PLB-E - Must be submitted for all buildings

Registration Number:

Generated Date/Time:

Documentation Software: EnyoPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.0

Compliance ID: EnyoPro-3103-0632-0102

Schema Version: Rev 2022.00.1

Report Generated: 2023-06-06 11:36:22

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

NCCCO-PJ-8

Page 3 of 6

6/6/2023

CERTIFICATE OF COMPLIANCE

Project Name: NC Homeless Resource Center

Report Type: 1105 Sutton Way

Date Prepared: 6/6/2023

Project Address: 1105 Sutton Way

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c), 170.2(d) must also be demonstrated and with 141.0, 180.3, 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Losses

03			04		05			06			
System Name	Gas on-demand	Exception to 140.5(c)/170.2(d)(3)	☐	Gas Service Water Heating System >= 1MMBtu/h ¹	Capacity-weighted Average Efficiency %						
07	08	09	10	11	12	13	14				
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss			Maximum Standby Loss
Gas on-demand	Commercial Gas Instantaneous Water Heater	0	199,900	FHR >=75	0.95	0.81	UEF				

FOOTNOTE: In systems > 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% E_t requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

Yes	No	Not Applicable	Requirement
18	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)(3)
19	☐	☒	New state buildings 60% of energy for service water heating from solar energy or recovered energy per 110.3(c)(5)
20	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBtu/h or 2 kW has been specified per 110.3(c)(6)
21	☐	☒	School buildings < 25,000 ft ² and < 4 stories must install a heat pump water heating system per 140.5(a)(1). Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Scheme Version: rev 20220101

Compliance ID: EnergyPro-3103-0623-0102

Report Generated: 2023-06-06 11:32:02

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRECC-PLB-B
Project Name:	NC Homeless Resource Center	(Page 5 of 6)
Project Address:	1105 Sutton Way	6/6/2023
Date Prepared:		

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

Registration Number:

Generated Date/Time:

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.009
Schema Version: rev 20x20101

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CA Building Energy Efficiency Standards

Domestic Water Heating System

REGISTRATION NUMBER

CA Building Energy Efficiency Standards

PROJECT NAME

1105 Sutton Way

REPORT DATE

Report Date: 11/05/2021

ISSUANCE DATE

11/05/2021

PROJECT ADDRESS

1105 Sutton Way

REPORT DATE

Report Date: 11/05/2021

ISSUANCE DATE

11/05/2021

13

☐

For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except:

• Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members.

• Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Installation Abatement (QIA) as specified in the Reference Residential Appendix RAS.5.

• Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.

14

☒

For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3:

• Recirculating system piping, including supply and return piping of the water heater

The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system

• Pipes that are externally heated

15

☐

Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

16

☐

For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except:

• Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members.

• Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Installation Abatement (QIA) as specified in the Reference Residential Appendix RAS.5.

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17

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For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3:

• Recirculating system piping, including supply and return piping of the water heater

The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system

• Pipes that are externally heated

18

☐

Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/ Motel
			Minimum Insulation Required			
			1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16
105-140	0.22 - 0.28	100				

Registration Number

Generated Date/Time

Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Domestic Water Heating System			
CERTIFICATE OF COMPLIANCE		NRCC-116-B	
Project Name:		Non-Homeless Resource Center	
Project Address:		1105 Sutton Way	
Report Page:		(Page 4 of 6)	
Date Prepared:		6/6/2021	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Chris Miller		Documentation Author Signature: 	
Company: MELAS ENERGY ENGINEERING		Signature Date: 2023-06-06	
Address: 547 Uren St.		CEC REC Certification Identification (if applicable): CEA R19-15-30070	
City/State/Zip: Nevada City CA 95959		Phone: 530 265-2492	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
- The information provided on this Certificate of Compliance is true and correct. - I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) - The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. - The building design features or system design specifications identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. - I well certify that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.			
Responsible Designer Name: Michael Melas		Responsible Designer Signature: 	
Company: Melas Energy Engineering		Date Signed: 2023-06-06	
Address: 547 Uren St.		License: M26780	
City/State/Zip: Nevada City CA 95959		Phone: 530 265-2492	
Registration Number:			
Generated Date/Time:		Documentation Software: EnergyPro	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Report Version: 2022.0.001	
Schema Version: 2020.001		Compliance ID: 3013-003-0023-0103	
		Report Generated: 2023-06-06 11:36:22	

MELAS
ENERGY
ENGINEERING

ENERGY & MECHANICAL CONSULTANTS
547 UREN STREET
NEVADA CITY, CA 95959
PHONE (530) 265-2492
FAX (530) 265-2273



NC - HOMELESS RESOURCE CENTER

1105 SUTTON WAY
GRASS VALLEY, CA 95945

TITLE-24 ENERGY REPORT NONRESIDENTIAL WATER HEATING

Project Title:	Project Location:	Sheet Title:
Revisions:		
No.	Date:	By: Description:
	-	-
Plot Date:		
Job #	23-153	
Scale	N/A	
Issued By	6/6/2023	
Sheet Number	T24-2	