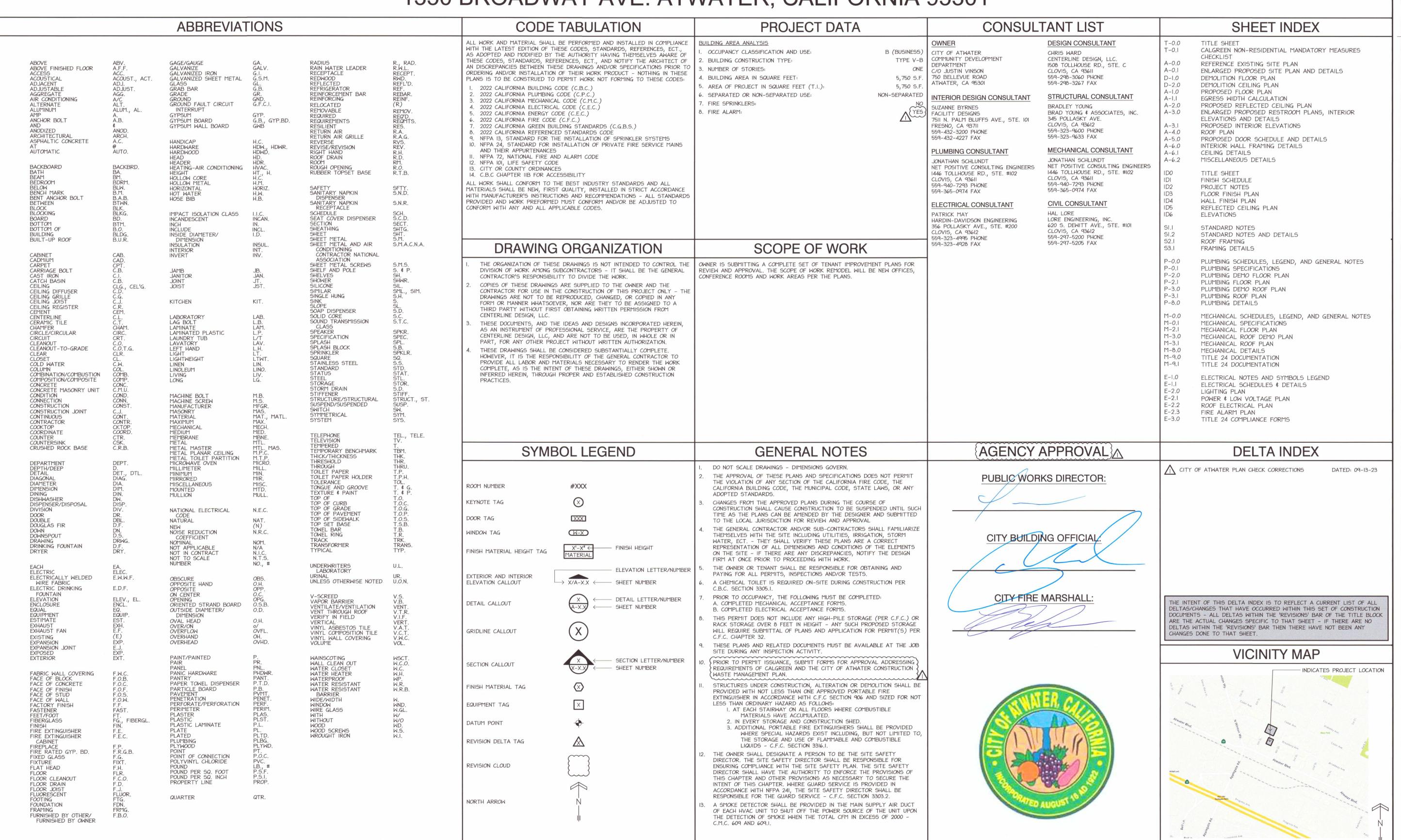
PROPOSED TENANT IMPROVEMENT FOR:

ATWATER CIVIC CENTER 2

ATWATER PROJECT NO. 21-03 BID CALL NO. 724-23

1350 BROADWAY AVE. ATWATER, CALIFORNIA 95301



CENTERLINE
DESIGN, LLC

PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C'
CLOVIS, CALIFORNIA 93611
559-298-3060 (OFFICE)
559-298-3267 (FAX)

ROGERIO HURTADO
C-35831
C-2-28-25
RENEWAL

PROPOSED TENANT IMPROVEMENT FOR:

ATWATER CIVIC CENTER 2

1350 BROADWAY AVE.

ATWATER, CALIFORNIA 95301

Planning Submittal

Plan Check Submittal

REVISIONS

PLAN CHECK CORRECTIONS DATED: 09-13-23

IDENTIFICATION

Project Coordinator

Centerline Project No

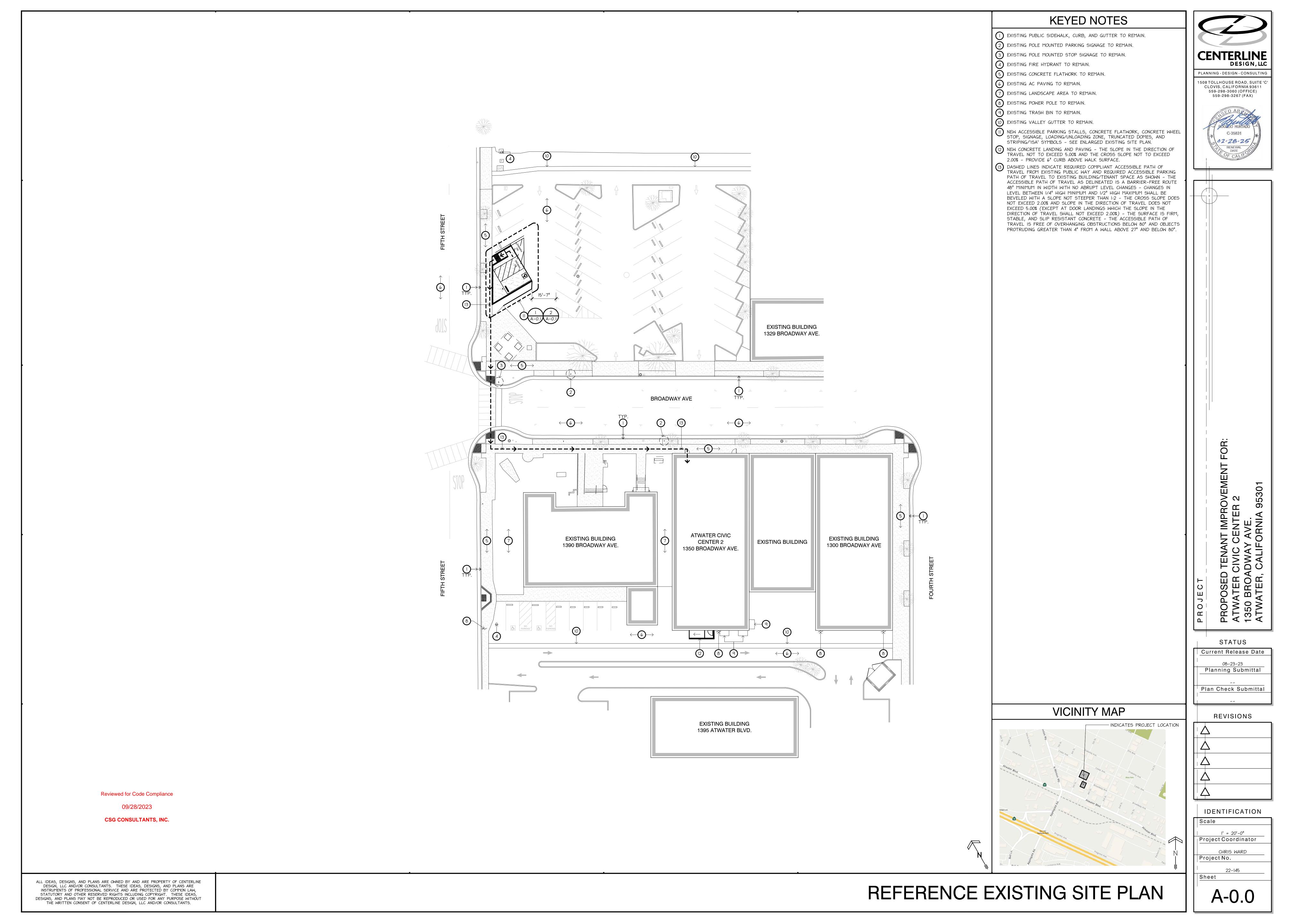
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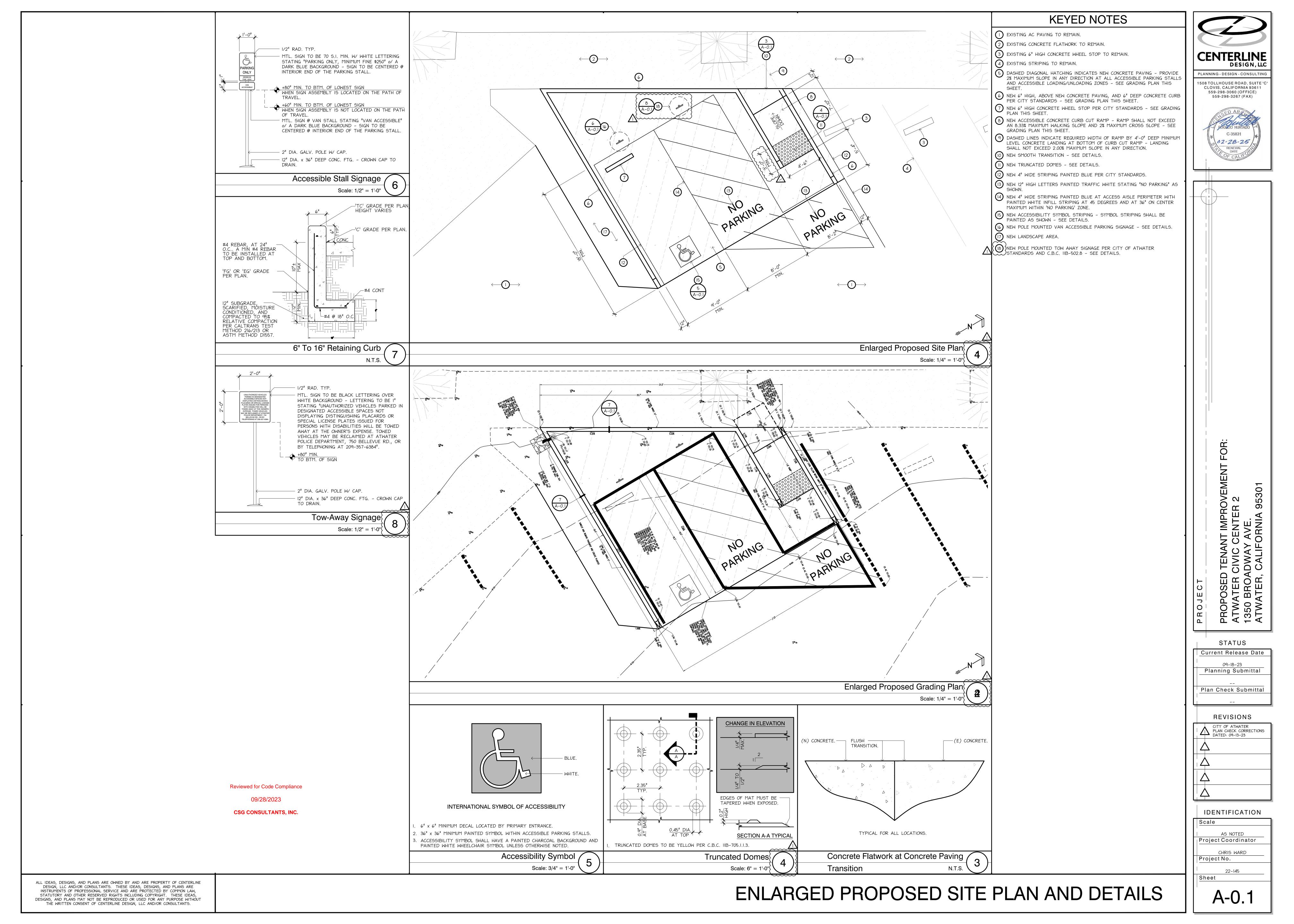
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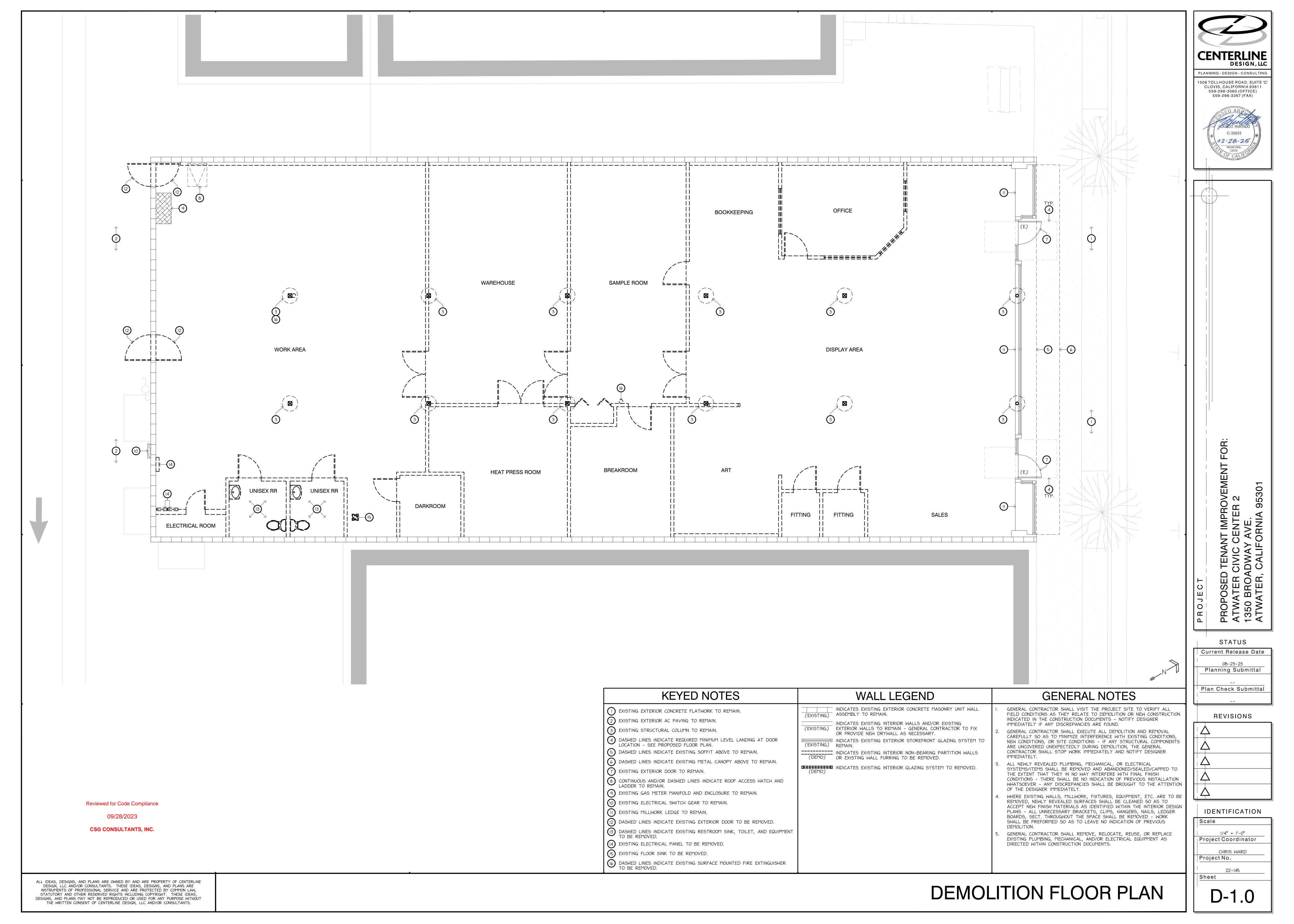
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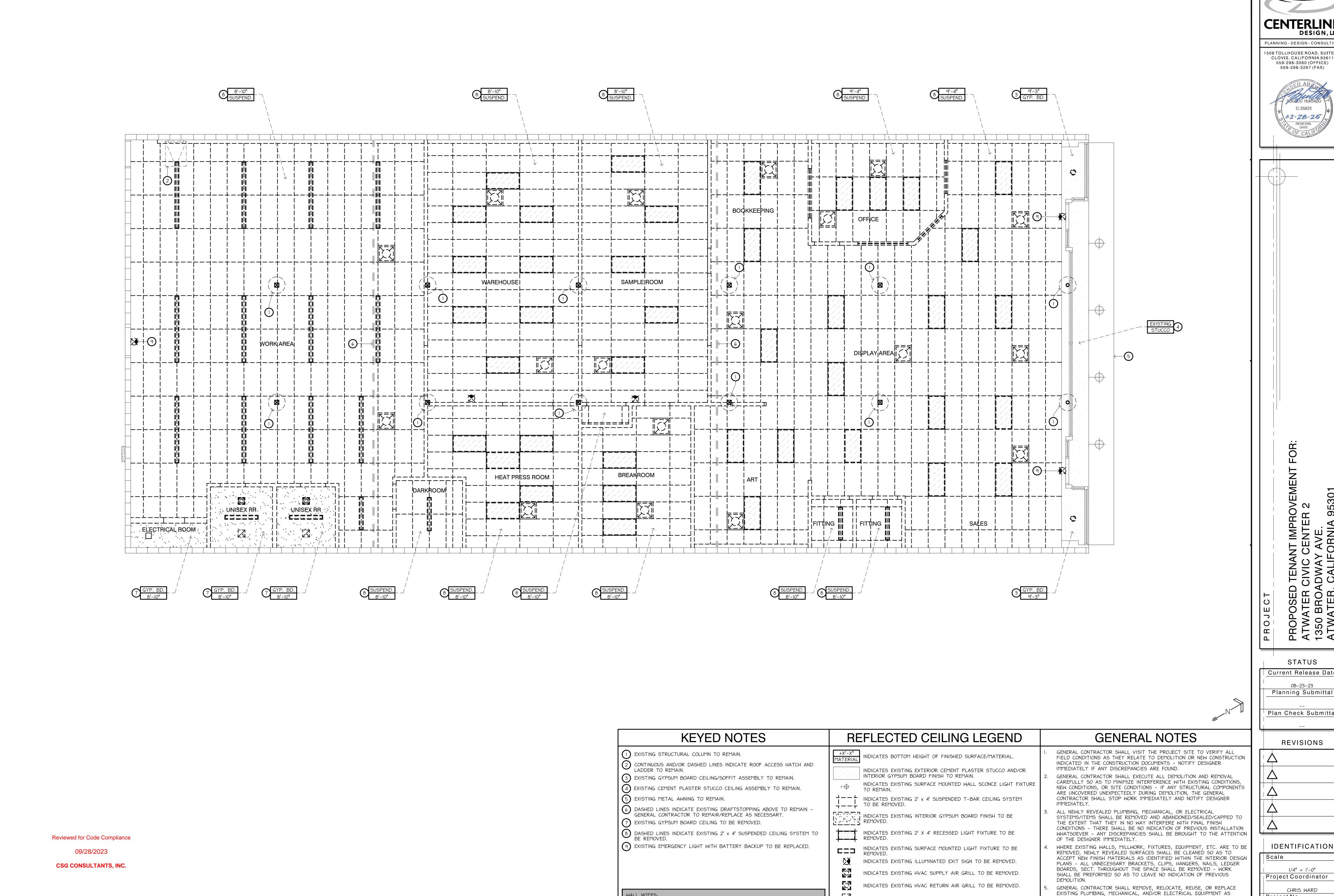
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		CKLIST	S CHE	ATORY MEASU		111011 00			1 ILC	11011		E COMPLIANCE TABLES	O/ (LG) (LL) (D) (OLL) (L
	PLAN SHEET, SPEC, OR ATTACH REFER.	OTHER	: NS YES N/	ECTIONS TITLE	HAPTER 5 DIVISIONS	PLAN SHEET, SPEC, OR ATTACH REFER.	OTHER	YES N/A	COI SECT	SECTIONS TITLE	CHAPTER 5 DIVISIONS		
CEN			.5	ND TRAINING [N]	DOCUMEN	N/A	N/A		5.10 E OF THRO	STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN I ACRE (TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE INI	TABLE 5.106.5.3.1 TOTAL NUMBER OF NUMBER OF EVCS
CEN			5.1	[N]	SYSTEMS				5.10	LAND		BUILDING SIZE (SQ. FT.) BUILDING SIZE (SQ. FT.) BUILDING SIZE (KVA) FOR RACEWAY LOADING SPACES BUILDING SUZE (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER &	ACTUAL PARKING SPACES O-9 NOMBER OF REQUIRED EV CAPABLE SPACES PROVIDED WITH EVSE) ² 0 0 0
PLANNING 1508 TOLLI	N/A	N/A	5.2	ON TRAINING [N]	SYSTEMS	N/A	N/A		5.106	SHORT-TERM BICYCLE PARKING (WITH EXCEPTION)		Grocery 10.000 to 1 or 2 200	10–25 4 0 26–50 8 2
CLOVIS 559-2: 559-2:			.6	PORT [N]	COMMISSI	N/A	N/A		5.106. THR <i>C</i> 5.106.	LONG-TERM BICYCLE PARKING		90,000 3 or Greater 400 Greater than 1 or Greater 400	51–75 13 3 76–100 17 4
				USTING FOR NEW BUILDINGS		N/A	N/A		5.106	ELECTRIC VEHICLE (EV) CHARGING [N] W/ EXCEPTIONS		Retail 10,000 to 1 or 2 200 135,000 3 or Greater 400	101–150 25 6 151–200 35 9 201 and over 20 percent of total ¹ 25 percent of EV
			4	EW SYSTEMS THAT SERVE [ERATIONS [A]	VISION 5.4 1ATERIAL < 10,000 S ADDITION	N/A	N/A		5.106.	EV CAPABLE SPACES [N]		Greater than 135,000 1 or Greater 400	1. Calculation for spaces shall be rounded up to the nearest whole number.
A B			.2	PLAN FOR RENEWABLE ENERGY, ATION AND WATER REUSE [A]	SERVATION RESOURCE SYSTEM FFICIENCY LANDSCA	N/A	N/A		CS) 5.106.	ELECTRIC VEHICLE CHARGING STATIONS (EVCS)		Warehouse 20,000 to 1 or 2 200 256,000 3 or Greater 400	in column 3 count toward the total number of required EV capable spaces shown in column 2.
S. S.		A COMPLETE REPORT OF THE TESTING AND ADJUSTING SHALL BE PROVIDED TO THE OWNER	.3		ONTINUED)	N/A	N/A		5.106.!	USE OF AUTOMATIC LOAD MANAGEMENT SYSTEMS (ALMS)		Greater than 256,000 1 or Greater 400	
	T-0.0, TITLE 24	OR OWNER'S REPRESENTATIVE AND FACILITIES OPERATOR AND THE TESTING AND ADJUSTING FORM SHALL BE COMPLETED AND PROVIDED TO	3.1	HVAC BALANCING	PR <i>O</i> CEDU	N/A	N/A		5.106.!	ACCECCIBLE EVEC	DIVIGION 5.1	£ 5.106.8 [N]	TABLE 5.10 MAXIMUM ALLOWABLE BACKLIGHT, UP
		THE INSPECTOR PRIOR TO PERMIT BEING FINALIZED.	.4		REPORTIN	N/A	N/Λ			NOTE FOR EVCS SIGNS	<u>DIVISION 5.1</u> PLANNING AND DESIGN	T, UPLIGHT AND GLARE (BUG) RATINGS ^{1,2} LIGHTING LIGHTING LIGHTING LIGHTING ZONE ZONE ZONE ZONE LZ0 LZ1 LZ2 LZ3 LZ4	Lic
						IV A	IV A		5.106	NOTE FOR EVES SIGNS		N/A No Limit No Limit No Limit No Limit	Maximum Allowable Backlight Rating (B)
			.5	, ,		N/A	N/A		5.106 AN 5106	TABLE 5.106.5.3.1 W/ FOOTNOTES		N/A B2 B3 B4 B4 N/A B1 B2 B3 B3	Luminaire back hemisphere is 0.5 – 1 MH from property line
_			5.1	EPORTS	INSPECTION	N/A	N/A		5.106	ELECTRIC VEHICLE (EV) CHARGING: MEDIUM-DUTY AND HEAVY-DUTY [N]		N/A B0 B0 B1 B2 N/A U0 U0 U0 U0	Maximum Allowable Uplight Rating (U)
_	N/A	N/A	.1		FIREPLAC	NIZA	AL /A		F 100	ELECTRIC VEHICLE CHARGING READINESS REQUIREMENTS FOR WAREHOUSES, GROCERY		N/A U1 U2 U3 U4	8 8
	N/A	N/A	1.1		WOODSTO	N/A	N/A 			STORES AND RETAIL STORES WITH PLANNED OFFSTREET LOADING SPACES [N]		N/A G1 G2 G3 G4 N/A G0 G1 G1 G2	Luminaire front hemisphere is 1 – 2 MH from property line
	MECHANICAL.	GENERAL CONTRACTOR SHALL COMPLY WITH THIS DURING CONSTRUCTION.	.1	ILATION	TEMPORA	N/A	N/A		5.106 AN 5.106	TABLE 5.106.5.4.1		N/A $G0$ $G0$ $G1$ $G1$ N/A $G0$ $G0$ $G0$ $G0$ $G1$ fined in the California Energy Code and Chapter 10 of the California Administrative	Luminaire front hemisphere is less than 0.5 MH from property line
	MECHANICAL.	GENERAL CONTRACTOR SHALL COMPLY WITH THIS DURING CONSTRUCTION.	3	TS OPENINGS AND PROTECTION QUIPMENT DURING	OF MECH,	ELECTRICAL.	N/A		5.100 THR <i>C</i> 5.106	LIGHT POLLUTION REDUCTION [N] (WITH EXCEPTIONS, NOTE, AND TABLE)		ng lots, the property line may be considered to be 5 feet beyond the actual property y lines that abut public roadways and public transit corridors, the property line may	Code. 2. For property lines that abut public walkways, bikeways, plazas and parking lot line for purpose of determining compliance with this section. For property line
		THIS BURING CONSTRUCTION.			CONSTRU	N/A	N/A			GRADING AND PAVING (EXCEPTION FOR ADDITIONS AND ALTERATIONS NOT ALTERING		orage lots shall meet these reduced ratings. Decorative luminaires located in these	be considered to be the centerline of the public roadway or public transit corrid 3. General lighting luminaires in areas such as outdoor parking, sales or storage areas shall meet <i>U</i> -value limits for "all other outdoor lighting."
			4.1	ANTS AND CAULKS	ADHESIVE				3.106	THE DRAINAGE PATH)			
			4.3	INGS	PAINTS A	TITLE 24.	SEE TITLE 24 DOCUMENTATION.		5.20	MEET THE MINIMUM ENERGY EFFICIENCY STANDARD	<u>DIVISION 5.2</u> ENERGY EFFICIENCY	TABLE 5.504.4.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS ^{2,3} Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds	TABLE 5.504.4.1 ADHESIVE VOC LIMIT ^{1,2} Less Water and Less Exempt Compounds in Grams Per Liter ARCHITECTURAL APPLICATIONS CURRENT VOC LIMIT
			3.1	AND COATINGS	AEROSOL					SEPARATE METERS (NEW BUILDINGS OR	ZI I IOILIYO I	COATING CATEGORY CURRENT LIMIT Flat coatings 50 Nonflat coatings 100	Indoor carpet adhesives 50 Carpet pad adhesives 50 Outdoor carpet adhesives 150
			3.2	AND COATINGS: VERIFICATION	AEROSOL	N/A	N/A		RE 5.303	ADDITIONS > 50,000 S.F. THAT CONSUME MORE THAN 100 GAL./DAY)		Nonflat-high gloss coatings 150 SPECIALTY COATINGS	Wood flooring adhesive 100 Rubber floor adhesives 60 Subfloor adhesives 50
			.4		CARPET	N/A	N/A		ORE 5.303	SEPARATE METERS (FOR TENANTS IN NEW BUILDINGS OR ADDITIONS THAT CONSUME MORE		Aluminum roof coatings 400 Basement specialty coatings 400 Bituminous roof coatings 50	Ceramic tile adhesives 65 VCT and asphalt tile adhesives 50
1			.4.1		CARPET		DILIMBING CUD CONTRACTOR CUALL COMPLY			THAN 1,000 GAL./DAY)		Bituminous roof primers 350 Bond breakers 350	Drywall and panel adhesives50Cove base adhesives50Multipurpose construction adhesives70
			4.2	S PER TABLE 5.504.4.I	CARPET	PLUMBING.	PLUMBING SUB-CONTRACTOR SHALL COMPLY WITH THIS DURING CONSTRUCTION.		5.303	WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH (G.P.F.)		Concrete curing compounds 350 Concrete/masonry sealers 100 Driveway sealers 50	Structural glazing adhesives 100 Single-ply roof membrane adhesives 250 Other adhesive not specifically listed 50
N	SEE CALGREEN BASELINE COMPLIANCE	GENERAL CONTRACTOR SHALL COMPLY WITH THIS DURING CONSTRUCTION - GENERAL	1.5	PRODUCTS		N/A	N/A		5.303	WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 G.P.F.		Dry fog coatings 150 Faux finishing coatings 350 Fire resistive coatings 350	SPECIALTY APPLICATIONS PVC welding 510 CPVC welding 490
	TABLES ON THIS SHEET.	CONTRACTOR SHALL PROVIDE DOCUMENTATION TO FIELD INSPECTOR IF REQUESTED.	5.3			N/A	N/A		5.303.	FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 G.P.F.		Floor coatings 100 Form-release compounds 250	ABS welding 325 Plastic cement welding 250
						N/A	N/A		5.303	SINGLE SHOWERHEAD SHALL HAVE MAXIMUM FLOW RATE OF 1.8 G.P.M. (GALLONS PER		Graphic arts coatings (sign paints) 500 High temperature coatings 420 Industrial maintenance coatings 250	Adhesive primer for plastic 550 Contact adhesive 80 Special purpose contact adhesive 250
			4.6	IC VEDICICATION OF						MINUTE) AT 80 P.S.I.		Low solids coatings ¹ 120 Magnesite cement coatings 450	Structural wood member adhesive 140 Top and trim adhesive 250 SUBSTRATE SPECIFIC APPLICATIONS
			6.1	NG: VERIFICATION OF	COMPLIAN	N/A	N/A			MULTIPLE SHOWERHEADS SERVING ONE SHOWER SHALL HAVE COMBINED FLOW RATE OF 1.8 G.P.I AT 80 P.S.I.		Mastic texture coatings 100 Metallic pigmented coatings 500 Multicolor coatings 250	Metal to metal 30 Plastic foams 50 Porous material (except wood) 50
			5.7	ION	THERMAL				5.303	NONDECIDENTIAL LAVATORY FALICETS	DIVISION 5.3 WATER	Pretreatment wash primers 420 Primers, sealers and undercoaters 100 Reactive penetrating sealers 350	Wood 30 Fiberglass 80
			.7.1	ION: VERIFICATION OF	THERMAL COMPLIAN				5.303.		EFFICIENCY AND CONSERVATION	Recycled coatings 250 Roof coatings 50	 If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District
			8	NGS AND WALL PANELS								Rust preventative coatings 250 Shellacs Clear 730	Rule 1168, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF.
			8.1	NGS AND WALL PANELS:		PLUMBING.	PLUMBING SUB-CONTRACTOR SHALL COMPLY WITH THIS DURING CONSTRUCTION.		5.303.	WASH FOUNTAINS		Opaque 550 Specialty primers, sealers and undercoaters 100 Stains 250	TABLE 5.504.4.2 SEALANT VOC LIMIT
			.3						5.303.	METERING FAUCETS		Stone consolidants 450 Swimming pool coatings 340 Traffic marking coatings 100	Less Water and Less Exempt Compounds in Grams per Liter SEALANTS CURRENT VOC LIMIT
11	MECHANICAL.	FILTER SUPPLIED BY THE MECHANICAL SUB-CONTRACTOR.	3.1		FILTERS:				5.303.	METERING FAUCETS FOR WASH FOUNTAINS		Tub and tile refinish coatings 420 Waterproofing membranes 250	Architectural 250 Marine deck 760 Nonmembrane roof 300
-		NO SMOKING SIGNS ARE SCHEDULED TO BE							5.303.	PRE-RINSE SPRAY VALVE		Wood coatings 275 Wood preservatives 350 Zinc-rich primers 340	Roadway 250 Single-ply roof membrane 450
	A-1.0.	INSTALLED NEXT TO EACH BUILDING ENTRY/EXIT POINT AT TIME OF TENANT IMPROVEMENTS.	7	OBACCO SMOKE (ETS)	CONTROL	PLUMBING.	PLUMBING SUB-CONTRACTOR SHALL COMPLY WITH THIS DURING CONSTRUCTION.		5.30	FOOD WASTE DISPOSERS		Grams of VOC per liter of coating, including water and including exempt compounds. The specified limits remain in effect unless revised limits are listed in	Other 420 SEALANT PRIMERS Architectural
,	ARCH. AND MECH. PLANS	SPACE IS BEING MECHANICALLY VENTILATED, RESTROOMS ARE BEING EXHAUSTED, AND	.1	CONTROL	INDOOR 1	PLUMBING.	PLUMBING SUB-CONTRACTOR SHALL COMPLY WITH THIS DURING CONSTRUCTION.		5.30	AREAS OF ADDITIONS OR ALTERATIONS		subsequent columns in the table. 3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure,	Nonporous Porous 250 775 Modified bituminous 500
_{ў.} Н ОШ П	AND DETAILS, AND TITLE 24.	EXTERIOR WALLS AND ROOF HAVE APPROPRIATE WEATHER-RESISTANT MEDIUMS.				N/A	N/A		5.30	STANDARDS FOR PLUMBING FIXTURES AND FITTINGS		February 1, 2008. More information is available from the Air Resources Board.	Marine deck 760 Other 750 Note: For additional information regarding methods to measure the VOC
	TITLE 24.	MECHANICAL UNITS ARE DESIGNED TO ACCOMMODATE VENTILATION.	1	VERY	OUTSIDE	N/A	N/A		PE 5.30	OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS (WITH NOTES)		TABLE 5.504.4.5	content specified in these tables, see South Coast Air Quality Management District Rule 1168.
	TITLE 24.	SEE MECHANICAL PLAN FOR CO2 SENSOR LOCATIONS.	2	(CO2) MONITORING	CARBON	N/A	Ν/Δ		5.40	WEATHER PROTECTION		FORMALDEHYDE LIMITS¹ Maximum Formaldehyde Emissions in Parts per Million PRODUCT CURRENT LIMIT	
_	N/A	N/A	4	ROL (WITH EXCEPTION)	ACOUSTIC		N/A					Hardwood plywood veneer core 0.05 Hardwood plywood composite core 0.05	
Curre	N/A	N/A	4.1	RANSMISSION, PRESCRIPTIVE CEPTIONS)		ARCHITECTURAL.	IV/A		5.40	MOISTURE CONTROL: SPRINKLERS MOISTURE CONTROL: EXTERIOR DOOR		Particleboard 0.09 Medium density fiberboard 0.11 Thin medium density fiberboard ² 0.13	
─	N/A	N/A	.1.1	NHERE NOISE CONTOURS ARE	NOISE EX NOT REA!	ARCHITECTURAL.	N/A		5.407	PROTECTION		Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as	
$ \left \cdot \right $	N/A	N/A	1.2		PERFORM	N/A	N/A		5.407.	MOISTURE CONTROL: FLASHING		tested in accordance with ASTM E1333. For additional information, see <i>California Code of Regulations</i> , Title 17, Sections 93120 through 93120.12. 2. Thin medium density fiberboard has a maximum thickness of ⁵ / ₁₆ inch (8 mm).	
Plan	N/A) N/A	2.1		SITE FEA		A COMPLETE WASTE MANAGEMENT PLAN SHALL		5.408	CONSTRUCTION WASTE MANAGEMENT - COMPLY WITH EITHER: SECTIONS 5.408.1.1, 5.408.1.2, 5.408.1.3 OR MORE STRINGENT LOCAL ORDINANC		10000000 med mediment diedress of 716 men (8 min).	
$\dashv +\!\!\!\!-$		NIZA				T-0.0	BE PROVIDED PRIOR TO PERMIT BEING FINALIZED.			CONSTRUCTION WASTE MANAGEMENT:	\dashv		
_	N/A	IVA	2.2						5.408	DOCUMENTATION	\dashv	CLARATION STATEMENT	DOCUMENTATION DEC
	N/A	N/A	1.3	, ,		N/A	N/A		5.40	UNIVERSAL WASTE [A]	<u>DIVISION 5.4</u>		
			.1	AND GREENHOUSE GAS	OZONE DI REDUCTIO	N/A	N/A		5.40	(100% REUSE OR RECYCLE)	MATERIAL CONSERVATION AND RESOURCE		
	MECHANICAL.	NEW MECHANICAL EQUIPMENT ARE NOT TO CONTAIN CFC'S OR HALONS.	1.1	RBONS (CFCs)	CHLOROFI	A-0.0	PROVIDED RECYCLING ENCLOSURE.		5.41	RECYCLING BY OCCUPANTS (WITH EXCEPTION)	EFFICIENCY		
			.2		HALONS	N/A	N/A		5.410	RECYCLING BY OCCUPANTS: ADDITIONS (WITH EXCEPTION)			Documentation Author's / Responsible Designer's Declaration
$\exists \ \exists $	N/A	N/A	2 GH 6.3	FRIGERANT LEAK REDUCTION STORES 8,000 S.F. OR MORE	SUPERMA FOR RETA	N/A	N/A		NCE 5.410	RECYCLING BY OCCUPANTS: SAMPLE ORDINANCE			Signature:
			ן כ.ש		<u> </u>	<u> </u>) [N] 5.410	COMMISSIONING NEW BUILDINGS (>10,000 S.F.) [Date: 08-23-23 License:	Centerline Design, LLC
IDE									,	OWNER'S OR OWNER REPRESENTATIVE'S PROJECT		C-3583I Phone:	Address: I508 TOLLHOUSE RD, STE C
Scale	Compliance	Reviewed for Code C							5.410	REQUIREMENTS (OPR) [N]		559-298-3060	CLOVIS, CA 93611
		00/00/000				N/A	N/A		5.410	BASIS OF DESIGN (BOD) [N]			
 Projec	3	09/28/202				I					Ī		
Projec		CSG CONSULTAN							5.410	COMMISSIONING PLAN [N]			









WALL NOTES:

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A. ALL EXISTING INSULATION AT ROOF DECK SHALL REMAIN.

DEMOLITION CEILING PLAN

DIRECTED WITHIN CONSTRUCTION DOCUMENTS.

INDICATES EXISTING EXHAUST FAN GRILL TO BE REMOVED.

PLANNING - DESIGN - CONSULTING 1508 TOLLHOUSE ROAD, SUITE '(CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

STATUS Current Release Date

Plan Check Submittal

REVISIONS

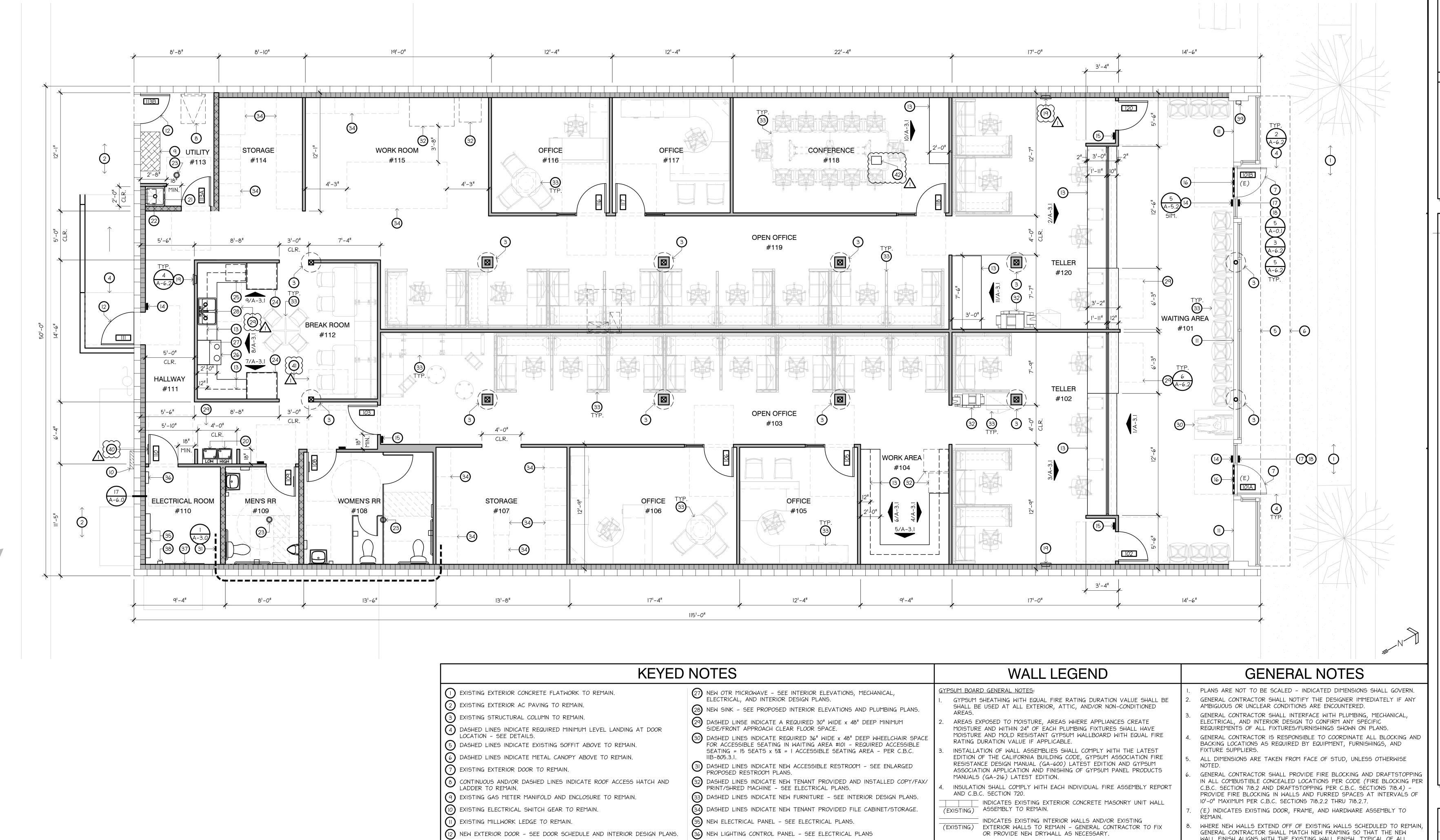
IDENTIFICATION

1/4'' = 1'-0''Project Coordinator CHRIS WARD

22-145

Project No.

D-2.0



GENERAL CONTRACTOR SHALL SEE THE FOLLOWING INTERIOR FRAMING DETAILS FOR GENERAL REQUIREMENTS - SEE WALL LEGEND FOR SPECIFIC

Reviewed for Code Compliance 09/28/2023 **CSG CONSULTANTS, INC.**

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NOTE TO GENERAL CONTRACTOR: SAW CUT AND REMOVE CONCRETE SLAB, VAPOR BARRIER, AND SOIL AS NECESSARY TO ACCOMMODATE UNDER SLAB UTILITIES - DO NOT UNDERMINE EXISTING FOOTINGS, BEARING SLABS, OR SOIL UNDERNEATH EXISTING FOUNDATION BEARING LOCATIONS - PROPERLY COMPACT SOIL PRIOR TO INSTALLING NEW SLAB - ALL DAMAGED PORTIONS OF VAPOR BARRIER SHALL BE REPLACED IN KIND - ALL HOLES AND/OR TEARS SHALL BE REPAIRED WITH TAPE - ALL PENETRATIONS THROUGH THE VAPOR RETARDER SHALL BE TAPED AND SEALED WITH TAPE - TOP OF NEW SLAB SHALL ALIGN WITH TOP OF EXISTING SLAB AND HAVE SAME FINISH AND THICKNESS AS ADJACENT SLAB - NEW SLAB SHALL HAVE SAME COMPRESSIVE STRENGTH AS ORIGINAL DESIGN AND SHALL BE DOWELED INTO EXISTING SLAB AS NEEDED TO PREVENT SETTLEMENT - SEE DETAILS.

(37) NEW FIRE-RESISTANT PLYWOOD BACKBOARD - SEE ELECTRICAL PLANS.

(38) NEW FIRE ALARM CONTROL PANEL - SEE ELECTRICAL PLANS. (39) NEW REMOTE ANNUNCIATOR PANEL - SEE ELECTRICAL PLANS.

REQUIREMENTS OF C.B.C. SECTION IIB-703 - SEE DETAILS. (40))NEW PLAINLY VISIBLE SIGN STATING "ELECTRICAL ROOM". (16) NEW SIGN ABOVE DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN DASHED LINES INDICATE REQUIRED ACCESSIBLE WHEEL CHAIR SEATING THIS SPACE IS OCCUPIED" IN LETTERS A MINIMUM OF I" HIGH ON TABLE TO BE PROVIDED AND INSTALLED BY TENANT SELECTED VENDOR TABLES ACCESSIBLE TO WHEELCHAIR USERS SHALL HAVE MAXIMUM HEIGHT (17) NEW ACCESSIBILITY AND 'NO SMOKING' SIGNAGE - SEE DETAILS. OF 34" AND MUST ACCOMMODATE A 30" x 48" CLEAR FLOOR SPACE - THE

SPACE BENEATH EACH TABLE FOR LEG ROOM SHALL BE A MINIMUM OF 19" 18 NEW TACTILE SIGNAGE WITH THE TENANT ADDRESS NUMBER IN RAISED DEEP, 30" WIDE, AND 27" HIGH, MEASURED FROM THE FINISHED FLOOR NUMBERS AND IN BRAILLE - TACTILE SIGNAGE SHALL MEET THE $\{LEVEL - REQUIRED ACCESSIBLE SEATING = 12 SEATS x 5% = 1 ACCESSIBLE \}$ REQUIREMENTS OF C.B.C. SECTION IIB-703 - SEE DETAILS. SEATING AREA - PER C.B.C. IIB-226 AND IIB-902. 19 NEW 2-A:10-B:C FIRE EXTINGUISHER INSIDE NEW J.L. INDUSTRIES (42) NEW PORTABLE ASSISTIVE-LISTENING SYSTEM TO BE COMPLIANT WITH COSMOPOLITAN #1037-F17 SEMI-RECESSED CABINET WITH BREAK GLASS ACCESS LEVER AND CYLINDER LOCK - GENERAL CONTRACTOR TO PROVIDE lacktriangle fire extinguishers at 75'-0" maximum travel distance per code

(TYPICAL OF 3) PER FIRE OFFICIAL - SEE DETAILS. NEW ACCESSIBLE HI/LOW DRINKING FOUNTAIN - SEE INTERIOR ELEVATIONS AND PLUMBING PLANS. (21) NEW MOP SINK - SEE PLUMBING PLANS.

(13) CONTINUOUS AND/OR DASHED LINES INDICATES NEW MILLWORK - SEE

14 NEW TACTILE "EXIT" SIGNAGE - SIGNAGE SHALL MEET THE REQUIREMENTS

PROPOSED INTERIOR ELEVATIONS AND INTERIOR DESIGN PLANS.

15 NEW TACTILE "EXIT ROUTE" SIGNAGE - SIGNAGE SHALL MEET THE

OF C.B.C. SECTION IIB-703 - SEE DETAILS.

CONTRASTING BACKGROUND.

23 NEW FLOOR DRAIN - SEE PLUMBING PLANS. DASHED LINES INDICATE NEW FULL SIZE REFRIGERATOR - SEE INTERIOR ELEVATIONS, ELECTRICAL PLANS, AND INTERIOR DESIGN PLANS.

(22) NEW WATER HEATER - SEE PLUMBING AND ELECTRICAL PLANS.

DASHED LINES INDICATE NEW UNDER COUNTER MICROWAVE - SEE INTERIOR ELEVATIONS, ELECTRICAL PLANS, AND INTERIOR DESIGN PLANS. NEW DROP-IN RANGE - SEE INTERIOR ELEVATIONS, ELECTRICAL, AND INTERIOR DESIGN PLANS.

INDICATES EXISTING EXTERIOR STOREFRONT GLAZING SYSTEM TO (EXISTING) REMAIN. INDICATES NEW 362SI25-33 3-5/8" METAL STUD FRAMING AT 16" ON CENTER FROM SLAB TO A POINT 6" ABOVE HIGHEST ADJACENT

BOARD ON BOTH SIDES OF FRAMING - PROVIDE FULL HEIGHT GLASS FIBER R-13 INSULATION WITHIN WALL FRAMING. INDICATES NEW 600SI25-33 6" METAL STUD FRAMING AT 16" ON (INTERIOR) CENTER FROM SLAB TO A POINT 6" ABOVE HIGHEST ADJACENT CEILING PLANE - PROVIDE FULL HEIGHT 5/8" THICK GYPSUM BOARD ON BOTH SIDES OF FRAMING - PROVIDE FULL HEIGHT GLASS FIBER R-19 INSULATION WITHIN WALL FRAMING.

INDICATES NEW 600SI25-33 6" METAL STUD FURRING FROM SLAB TO A POINT 6" ABOVE HIGHEST ADJACENT CEILING PLANE AND/OR TO THE UNDERSIDE OF NEW GYPSUM BOARD CEILING PROVIDE FULL HEIGHT 5/8" THICK GYPSUM BOARD ON TENANT SIDE OF FRAMING - PROVIDE FULL HEIGHT GLASS FIBER R-19 INSULATION - PROVIDE SILL SEAL FOAM GASKET IN BETWEEN NEW METAL STUD FURRING AND EXISTING CONCRETE MASONRY

CEILING PLANE - PROVIDE FULL HEIGHT 5/8" THICK GYPSUM

UNIT WALL ASSEMBLY. (GLAZING) INDICATES NEW INTERIOR GLAZING.

GENERAL CONTRACTOR SHALL SEE THE FOLLOWING INTERIOR FRAMING DETAILS FOR GENERAL REQUIREMENTS - SEE WALL LEGEND FOR SPECIFIC MATERIALS.

WALL FINISH ALIGNS WITH THE EXISTING WALL FINISH, TYPICAL OF ALL LOCATIONS.

ALL EXISTING INSULATION AT ROOF DECK SHALL REMAIN.

PLUMBING CALCULATION

BUSINESS:	
ALL OTHER ROOMS	4,471 S.F. / 150 = 29.81 OCCUPANTS
ACCESSORY AREAS:	
#108, #109, #110, #111, #113	714 S.F. / 0 = 0 OCCUPANTS
TOTAL OCCUPANTS =	30 OCCUPANTS
TYPE OF OCCUPANCY =	B (BUSINESS)
MEN: WATER CLOSETS REQUIRED: URINALS REQUIRED: SINKS REQUIRED:	I5 OCCUPANTS I I
<u>WOMEN:</u> WATER CLOSETS REQUIRED: SINKS REQUIRED:	I5 OCCUPANTS I I
SERVICE SINKS REQUIRED:	1

IDENTIFICATION

STATUS

Current Release Date

09-18-23

Planning Submittal

Plan Check Submittal

REVISIONS

CITY OF ATWATER

PLAN CHECK CORRECTIONS
DATED: 09-13-23

CENTERLINE

PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE)

559-298-3267 (FAX)

DESIGN, LLC

	Scale
r	Project Coordinator
	CHRIS WARD
Γ	Project No.
ı	

22-145

Sheet

PROPOSED FLOOR PLAN

DRINKING FOUNTAIN REQUIRED:

	OCCUPANT LOAD CALCULATION 2 AREA OCCUPANT ASSURBANT EXITS EXITS			
ROOM #: AREA (S.F.): LOAD CCUPANTS: FACTOR: CCUPANTS: EXITS REQUIRED: PROVIDED: 102 399 150 3 I I	ROOM #: AREA (S.F.): LOAD CCUPANTS: FACTOR: CCCUPANTS: EXITS EXITS REQUIRED: PROVIDED: 108 150 1 1	ROOM #: AREA (S.F.): DOCCUPANT LOAD FACTOR: OCCUPANTS: EXITS REQUIRED: PROVIDED: 101 592 15 40 1	ROOM #: AREA (S.F.): LOAD OCCUPANTS: FACTOR: OCCUPANTS: EXITS REQUIRED: PROVIDED: 101 592 15 40 2 1	CENTERLINE
103 666 150 5 1 1	109 75 150 1 1 1	TOTALS: 592 40 I 2	102 399 150 3 1 1	DESIGN, LLC PLANNING - DESIGN - CONSULTING
104 111 150 1 1 1 105 144 150 1 1 1	110 76 300 1 1 1 1 1 1 1 1 1	EGRESS WIDTH CALCULATION 3	103 666 150 5 1 1 104 111 150 1 1 1	1508 TOLLHOUSE ROAD, SUITE 'C' CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)
106 203 150 2 1 1 107 160 150 2 1 1	112 256 15 18 1 1 113 85 300 1 1 1	EXIT #: ROOM # OCCUPANT LOAD: EGRESS REQUIRED WIDTH: PROVIDED HARDWARE PROVIDED:	105 144 150 1 1 1 106 203 150 2 1 1	SED ARCH
TOTALS: 1683 14 1 2	114 99 150 1 1 1	101A	107 160 150 2 1 1	ROGEZIO HURTADO
EGRESS WIDTH CALCULATION 1	115 226 150 2 1 1 116 142 150 1 1 1	OCCUPANT	108 151 150 1 1 1 1 1 1 1 1 1	OZ-Z8-Z5 RENEWAL DATE
EXIT #: ROOM # OCCUPANT LOAD: EGRESS WIDTH WIDTH: PROVIDED HARDWARE PROVIDED:	117 142 150 1 1 1 1 118 260 15 18 1 1 1	(EXII) x 0.2 =		OF CALL
102 (EGRESS 102-107 7 LOAD 1.40 36" NO PATH)	119 673 150 5 1 1		112 256 15 18 1 1	
103 (EGRESS 102-107 7 LOAD 1.40 36" NO PATH)	120 398 150 3 1 1 TOTALS: 2910 56 2 2		113 85 300 1 1 1 114 99 150 1 1 1	
, , , , , , , , , , , , , , , , , , ,	EGRESS WIDTH CALCULATION 2		115 226 150 2 1 1 116 142 150 1 1 1	
	EXIT #: ROOM # OCCUPANT LOAD: EGRESS REQUIRED WIDTH: PROVIDED HARDWARE PROVIDED:		117 142 150 1 1 1 118 260 15 18 1 1	
	III		119 673 150 5 1 1	
	120 CCUPANT (EGRESS 108-120 28 LOAD 5.60 36" NO		120 398 150 3 1 1 TOTALS: 5185 110 2 3	
	PATH) x 0.2 =		EGRESS WIDTH CALC. TOTAL	
			EXIT #: ROOM # OCCUPANT LOAD: EGRESS WIDTH CALC'S: REQUIRED WIDTH: PROVIDED HARDWARE PROVIDED:	
			101A (EXIT) ALL AO OCCUPANT LOAD 8.00 36" YES X 0.2 =	
			IOIB ALL COCCUPANT LOAD 8.00 36" YES TO SEE THE SEE TH	
			102	
			103	
			III	
			120 (EGRESS 102-120 32 LOAD 6.40 36" NO PATH) x 0.2 =	
			X U.Z =	2 5301
				OVEI 3 2 9530
			•	NT IM CENT Y AVE
				MAN WAY
				EB CI
				POSI NATE O BR(
				PRO ATW ATW ATW
				STATUS
				Current Release Date 08-23-23
				Planning Submittal Plan Check Submittal
			•	
				REVISIONS
				IDENTIFICATION
				Scale N/A
				Project Coordinator CHRIS WARD
				Project No.

Reviewed for Code Compliance

09/28/2023

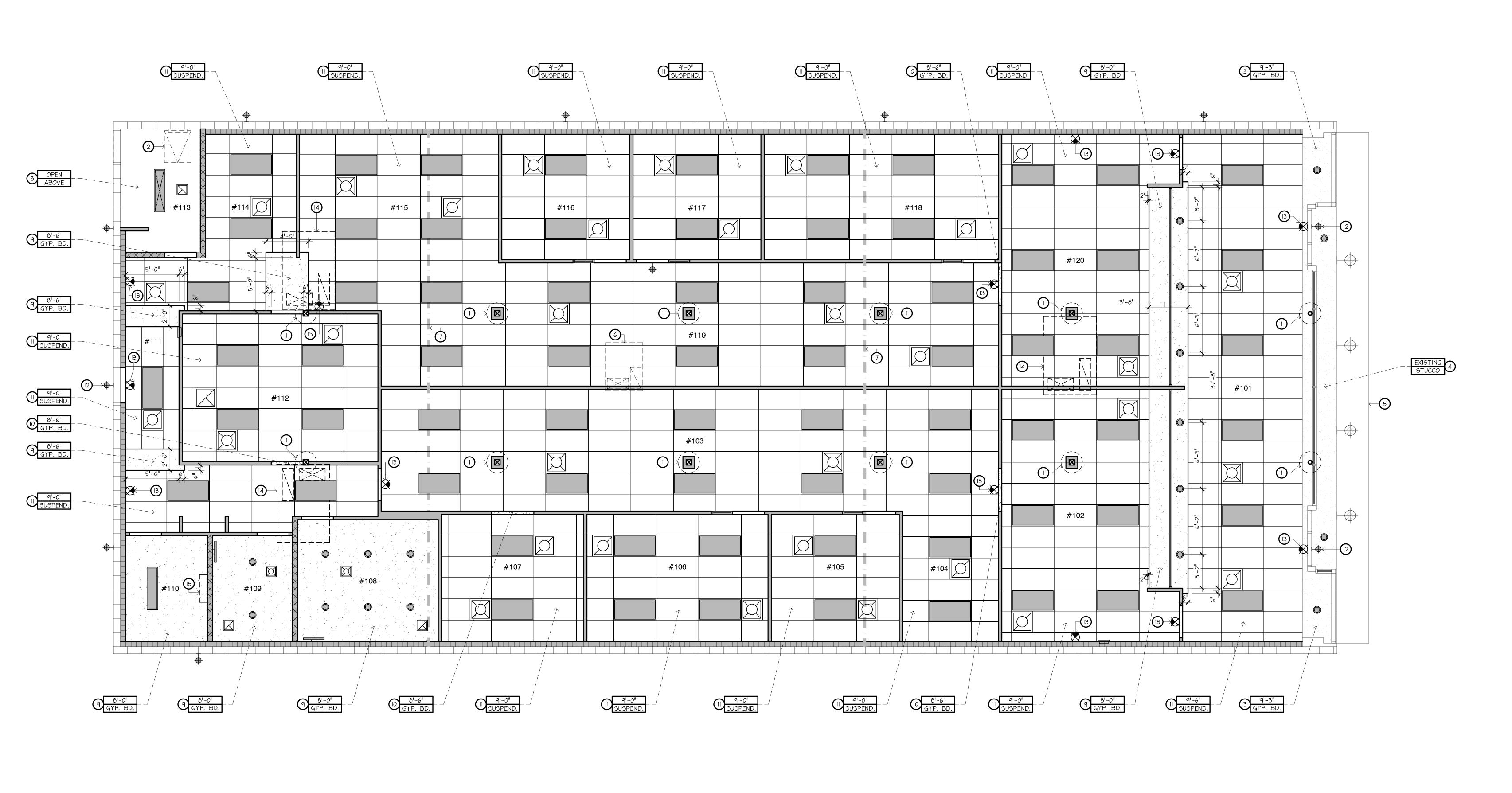
CSG CONSULTANTS, INC.

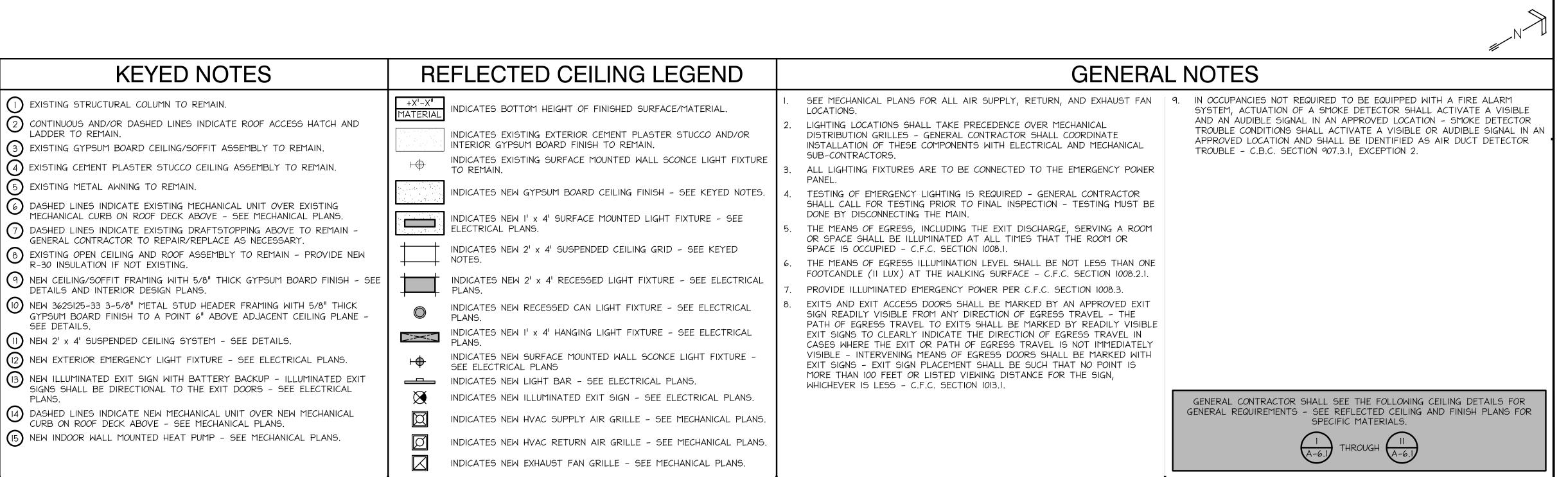
ALL IDEAS, DESIGNS, AND PLANS ARE OWNED BY AND ARE PROPERTY OF CENTERLINE DESIGN, LLC AND/OR CONSULTANTS. THESE IDEAS, DESIGNS, AND PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE PROTECTED BY COMMON LAW,

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EGRESS WIDTH CALCULATION

Sheet





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THE WRITTEN CONSENT OF CENTERLINE DESIGN, LLC AND/OR CONSULTANTS.

Reviewed for Code Compliance

09/28/2023

CSG CONSULTANTS, INC.

PROPOSED REFLECTED CEILING PLAN

CENTERLINE PLANNING - DESIGN - CONSULTING 1508 TOLLHOUSE ROAD, SUITE '(CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

02-28-25

PROPOSED ATWATER CONTROPORTING BROAL ATWATER, (STATUS Current Release Date 08-23-23

Planning Submittal

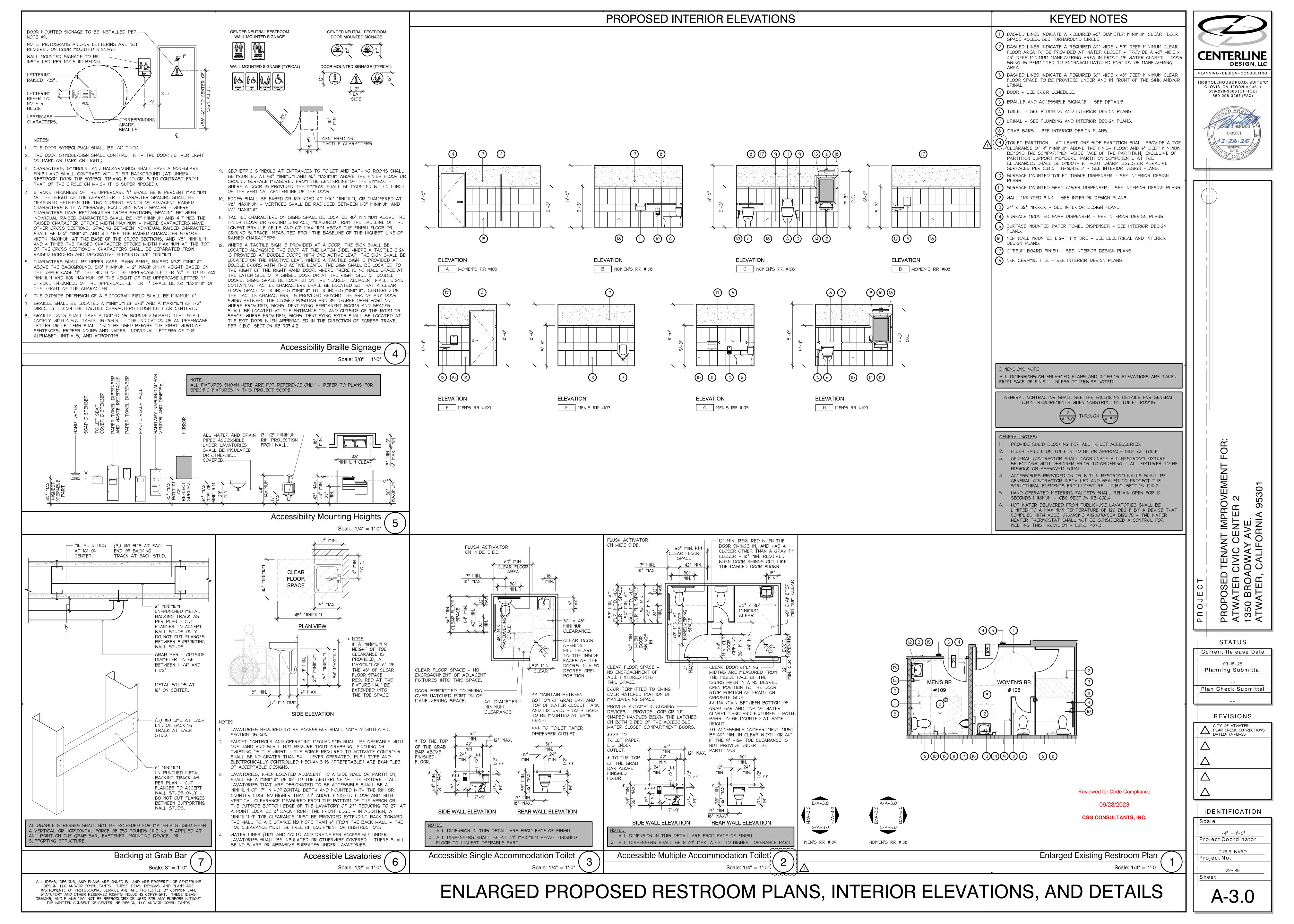
Plan Check Submittal

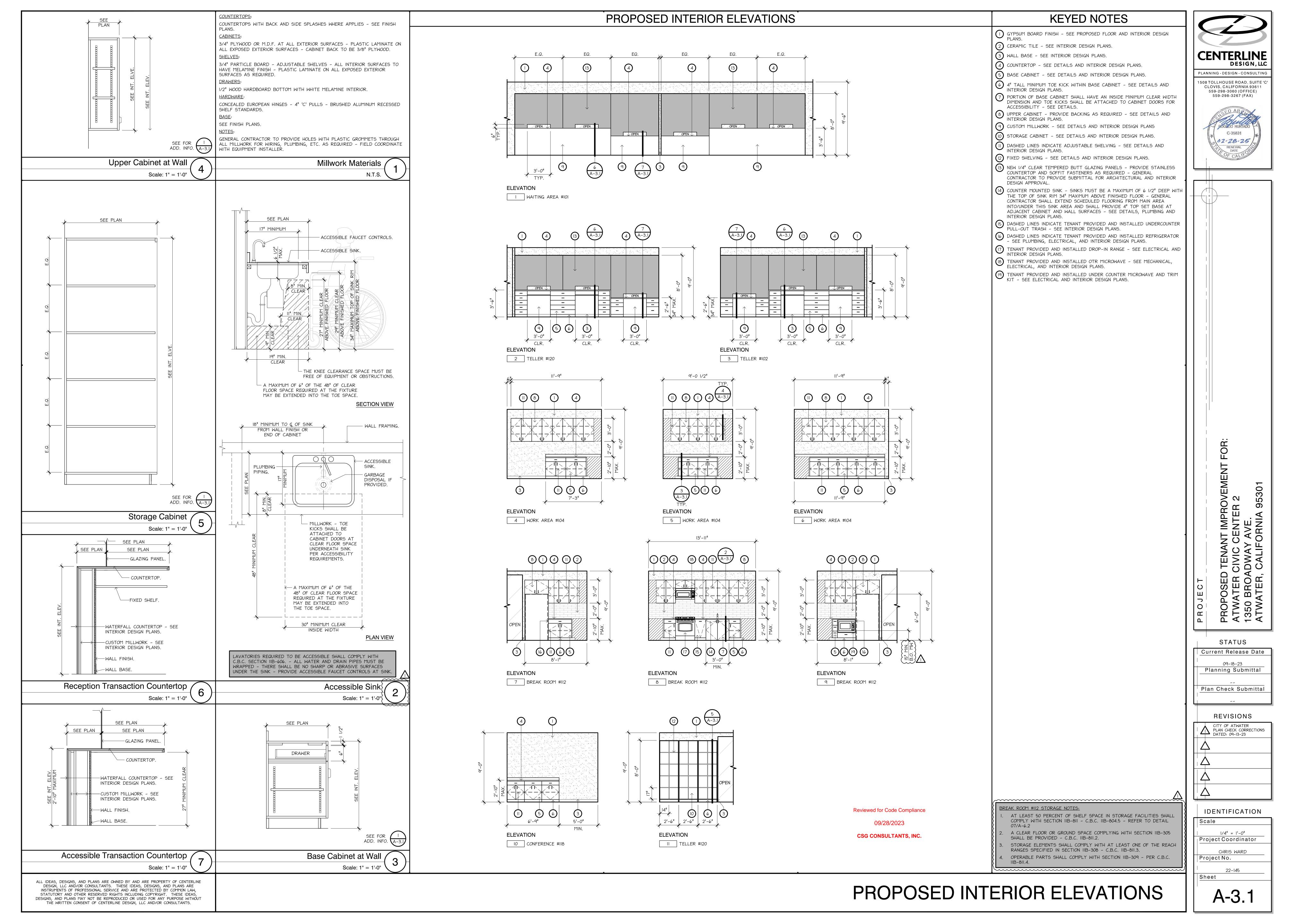
REVISIONS

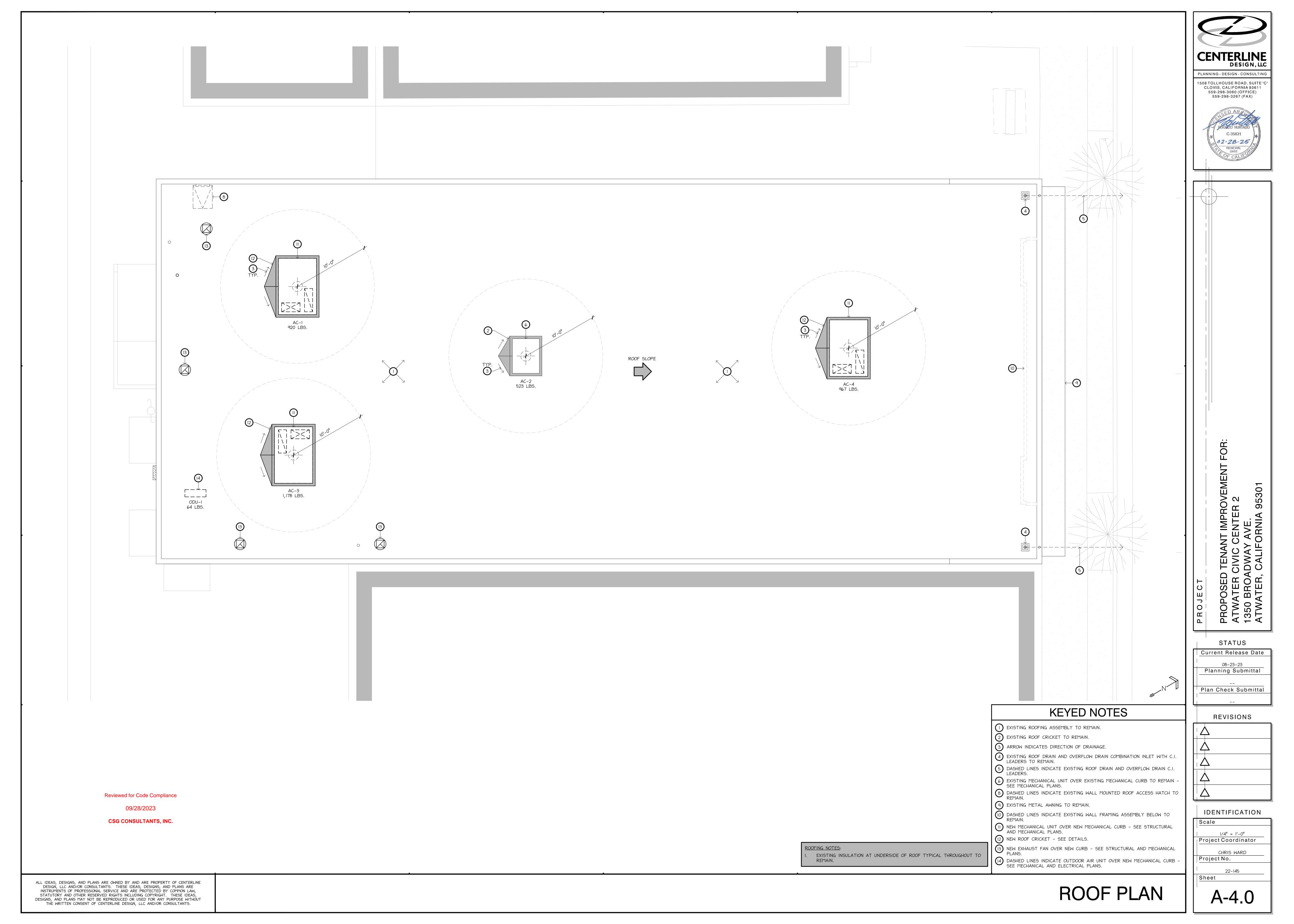
IDENTIFICATION

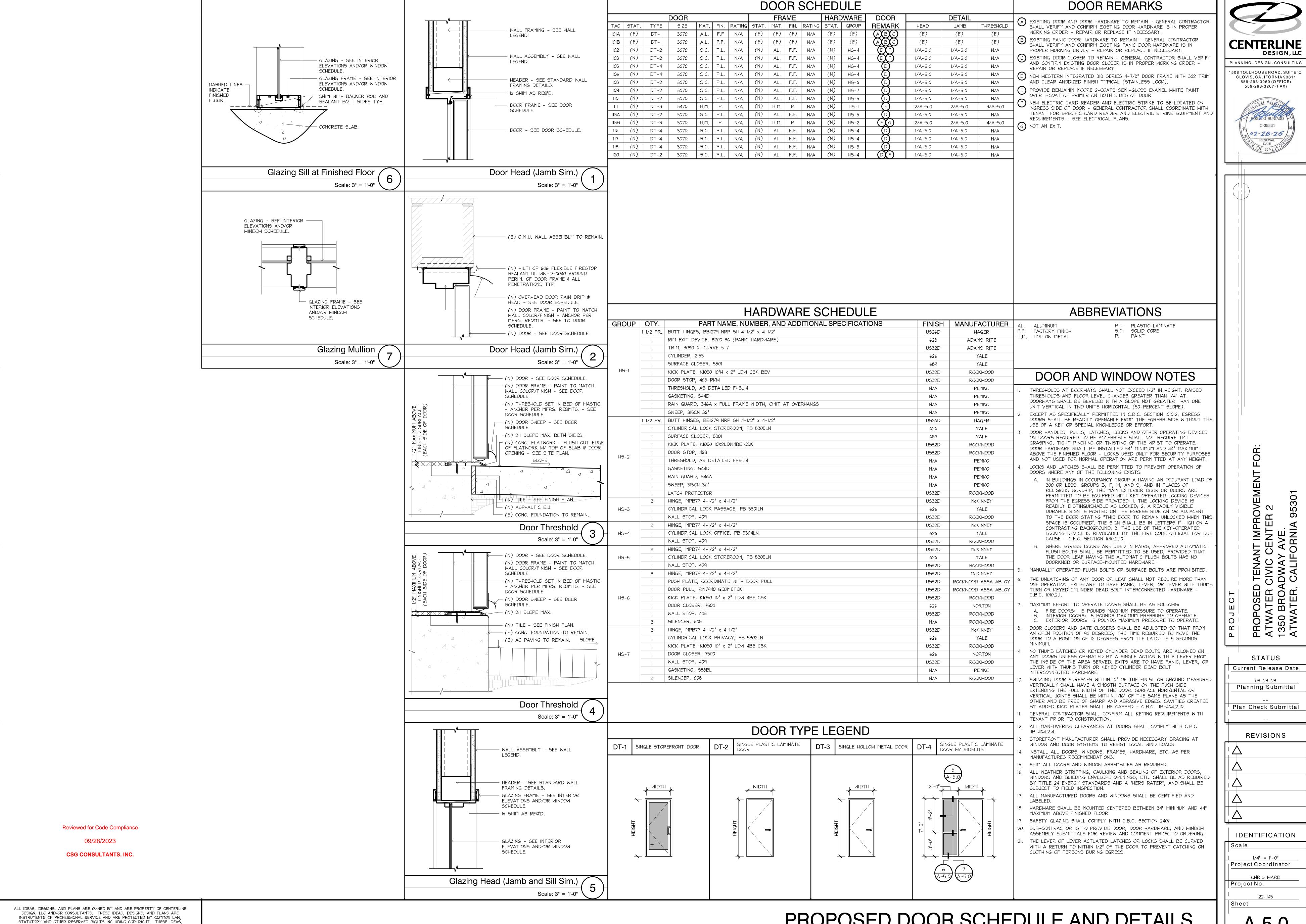
Scale 1/4" = 1'-0" | Project Coordinator CHRIS WARD Project No.

> 22-145 A-2.0





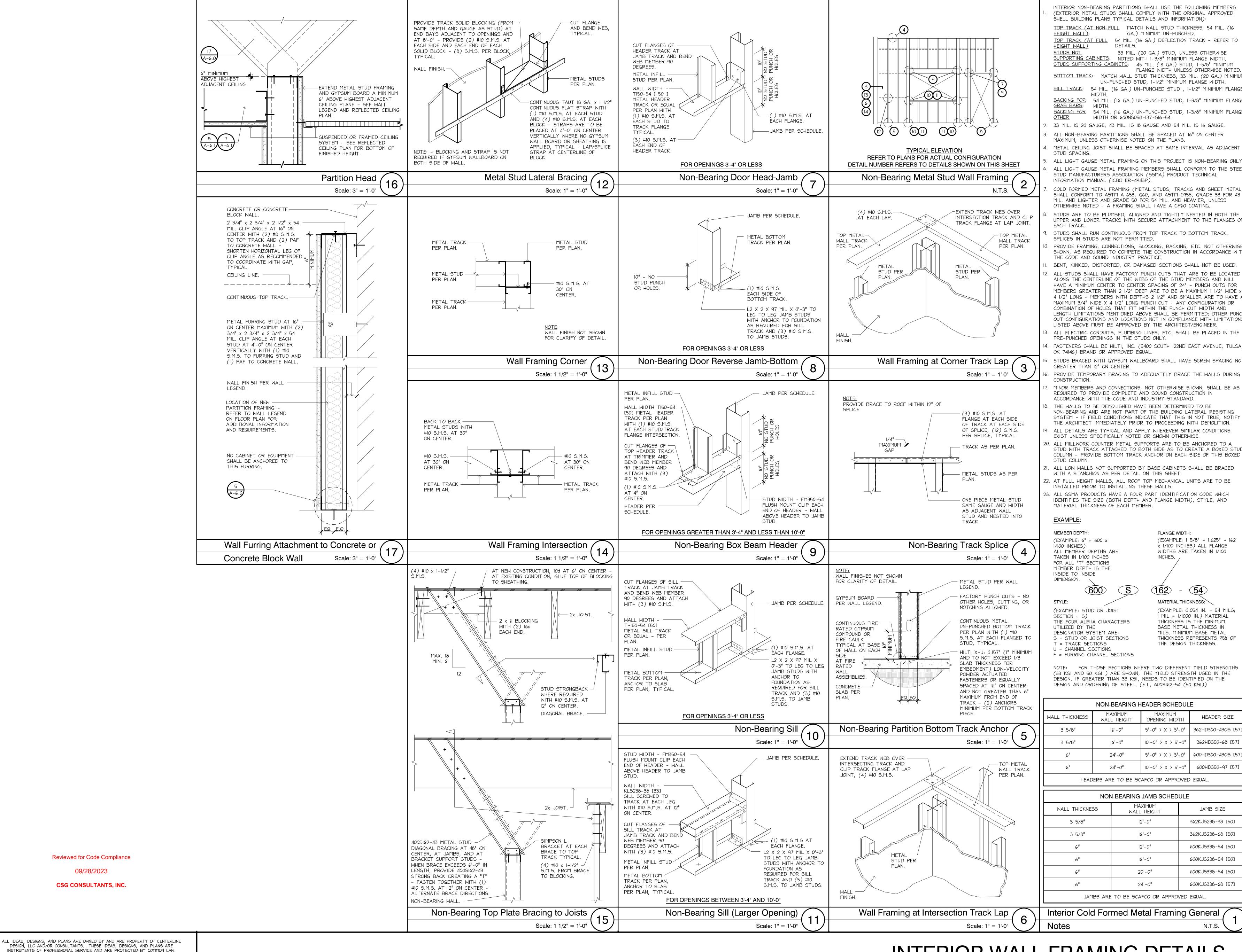




DESIGNS, AND PLANS MAY NOT BE REPRODUCED OR USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF CENTERLINE DESIGN, LLC AND/OR CONSULTANTS.

PROPOSED DOOR SCHEDULE AND DETAILS

A-5.0



STATUTORY AND OTHER RESERVED RIGHTS INCLUDING COPYRIGHT. THESE IDEAS, DESIGNS, AND PLANS MAY NOT BE REPRODUCED OR USED FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF CENTERLINE DESIGN, LLC AND/OR CONSULTANTS.

INTERIOR NON-BEARING PARTITIONS SHALL USE THE FOLLOWING MEMBERS (EXTERIOR METAL STUDS SHALL COMPLY WITH THE ORIGINAL APPROVED SHELL BUILDING PLANS TYPICAL DETAILS AND INFORMATION):

TOP TRACK (AT NON-FULL MATCH WALL STUD THICKNESS, 54 MIL. (16 GA.) MINIMUM UN-PUNCHED. HEIGHT WALL): TOP TRACK (AT FULL 54 MIL. (16 GA.) DEFLECTION TRACK - REFER TO <u>HEIGHT WALL):</u> 33 MIL. (20 GA.) STUD, UNLESS OTHERWISE

SUPPORTING CABINETS: NOTED WITH 1-3/8" MINIMUM FLANGE WIDTH. STUDS SUPPORTING CABINETS: 43 MIL. (18 GA.) STUD, 1-3/8" MINIMUM FLANGE WIDTH UNLESS OTHERWISE NOTED. BOTTOM TRACK: MATCH WALL STUD THICKNESS, 33 MIL. (20 GA.) MINIMUM UN-PUNCHED STUD, 1-1/2" MINIMUM FLANGE WIDTH.

SILL TRACK: 54 MIL. (16 GA.) UN-PUNCHED STUD , 1-1/2" MINIMUM FLANGE BACKING FOR 54 MIL. (16 GA.) UN-PUNCHED STUD, 1-3/8" MINIMUM FLANGE GRAB BARS: WIDTH.

BACKING FOR 54 MIL. (16 GA.) UN-PUNCHED STUD, 1-3/8" MINIMUM FLANGE WIDTH OR 600NS050-137-S16-54. 2. 33 MIL. IS 20 GAUGE, 43 MIL. IS 18 GAUGE AND 54 MIL. IS 16 GAUGE.

ALL NON-BEARING PARTITIONS SHALL BE SPACED AT 16" ON CENTER MAXIMUM, UNLESS OTHERWISE NOTED ON THE PLANS. 4. METAL CEILING JOIST SHALL BE SPACED AT SAME INTERVAL AS ADJACENT

ALL LIGHT GAUGE METAL FRAMING MEMBERS SHALL CONFORM TO THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) PRODUCT TECHNICAL INFORMATION MANUAL (ICBO ER-4943P). COLD FORMED METAL FRAMING (METAL STUDS, TRACKS AND SHEET METAL)

SHALL CONFORM TO ASTM A 653, G60, AND ASTM C955, GRADE 33 FOR 43 MIL. AND LIGHTER AND GRADE 50 FOR 54 MIL. AND HEAVIER, UNLESS OTHERWISE NOTED - A FRAMING SHALL HAVE A CP60 COATING. STUDS ARE TO BE PLUMBED, ALIGNED AND TIGHTLY NESTED IN BOTH THE

UPPER AND LOWER TRACKS WITH SECURE ATTACHMENT TO THE FLANGES OF STUDS SHALL RUN CONTINUOUS FROM TOP TRACK TO BOTTOM TRACK.

SPLICES IN STUDS ARE NOT PERMITTED. . PROVIDE FRAMING, CONNECTIONS, BLOCKING, BACKING, ETC. NOT OTHERWISE SHOWN, AS REQUIRED TO COMPETE THE CONSTRUCTION IN ACCORDANCE WITH

BENT, KINKED, DISTORTED, OR DAMAGED SECTIONS SHALL NOT BE USED. ALL STUDS SHALL HAVE FACTORY PUNCH OUTS THAT ARE TO BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF THE STUD MEMBERS AND WILL HAVE A MINIMUM CENTER TO CENTER SPACING OF 24" - PUNCH OUTS FOR MEMBERS GREATER THAN 2 1/2" DEEP ARE TO BE A MAXIMUM I 1/2" WIDE x 4 1/2" LONG - MEMBERS WITH DEPTHS 2 1/2" AND SMALLER ARE TO HAVE A MAXIMUM 3/4" WIDE X 4 I/2" LONG PUNCH OUT - ANY CONFIGURATION OR COMBINATION OF HOLES THAT FIT WITHIN THE PUNCH OUT WIDTH AND LENGTH LIMITATIONS MENTIONED ABOVE SHALL BE PERMITTED; OTHER PUNCH OUT CONFIGURATIONS AND LOCATIONS NOT IN COMPLIANCE WITH LIMITATIONS LISTED ABOVE MUST BE APPROVED BY THE ARCHITECT/ENGINEER.

. ALL ELECTRIC CONDUITS, PLUMBING LINES, ETC. SHALL BE PLACED IN THE PRE-PUNCHED OPENINGS IN THE STUDS ONLY. 14. FASTENERS SHALL BE HILTI, INC. (5400 SOUTH 122ND EAST AVENUE, TULSA, OK 74146) BRAND OR APPROVED EQUAL.

STUDS BRACED WITH GYPSUM WALLBOARD SHALL HAVE SCREW SPACING NO GREATER THAN 12" ON CENTER. PROVIDE TEMPORARY BRACING TO ADEQUATELY BRACE THE WALLS DURING

MINOR MEMBERS AND CONNECTIONS, NOT OTHERWISE SHOWN, SHALL BE AS REQUIRED TO PROVIDE COMPLETE AND SOUND CONSTRUCTION IN ACCORDANCE WITH THE CODE AND INDUSTRY STANDARD. 18. THE WALLS TO BE DEMOLISHED HAVE BEEN DETERMINED TO BE

NON-BEARING AND ARE NOT PART OF THE BUILDING LATERAL RESISTING SYSTEM - IF FIELD CONDITIONS INDICATE THAT THIS IN NOT TRUE, NOTIFY THE ARCHITECT IMMEDIATELY PRIOR TO PROCEEDING WITH DEMOLITION. 9. ALL DETAILS ARE TYPICAL AND APPLY WHEREVER SIMILAR CONDITIONS EXIST UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. 20. ALL MILLWORK COUNTER METAL SUPPORTS ARE TO BE ANCHORED TO A

STUD WITH TRACK ATTACHED TO BOTH SIDE AS TO CREATE A BOXED STUD COLUMN - PROVIDE BOTTOM TRACK ANCHOR ON EACH SIDE OF THIS BOXED 21. ALL LOW WALLS NOT SUPPORTED BY BASE CABINETS SHALL BE BRACED

WITH A STANCHION AS PER DETAIL ON THIS SHEET. 22. AT FULL HEIGHT WALLS, ALL ROOF TOP MECHANICAL UNITS ARE TO BE INSTALLED PRIOR TO INSTALLING THESE WALLS.

3. ALL SSMA PRODUCTS HAVE A FOUR PART IDENTIFICATION CODE WHICH IDENTIFIES THE SIZE (BOTH DEPTH AND FLANGE WIDTH), STYLE, AND MATERIAL THICKNESS OF EACH MEMBER.

(EXAMPLE: 6" = 600 x)ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES FOR ALL "T" SECTIONS MEMBER DEPTH IS THE INSIDE TO INSIDE

(EXAMPLE: 1.5/8" = 1.625" = 162x 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100

FLANGE WIDTH:

(EXAMPLE: STUD OR JOIST THE FOUR ALPHA CHARACTERS

MATERIAL THICKNESS: (EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL = 1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF S = STUD OR JOIST SECTIONS THE DESIGN THICKNESS.

(162)

NOTE: FOR THOSE SECTIONS WHERE TWO DIFFERENT YIELD STRENGTHS (33 KSI AND 50 KSI) ARE SHOWN, THE YIELD STRENGTH USED IN THE DESIGN, IF GREATER THAN 33 KSI, NEEDS TO BE IDENTIFIED ON THE DESIGN AND ORDERING OF STEEL. (E.I., 600S162-54 (50 KSI))

NON-BEARING HEADER SCHEDULE								
WALL THICKNESS	MAXIMUM WALL HEIGHT	MAXIMUM OPENING WIDTH	HEADER SIZE					
3 5/8"	16'-0"	5'-0" > X > 3'-0"	362HD300-43QS [57]					
3 5/8"	16'-0"	10'-0" > X > 5'-0"	362HD350-68 [57]					
6"	24'-0"	5'-0" > X > 3'-0"	600HD300-43QS [57]					
6"	24'-0"	10'-0" > X > 5'-0"	600HD350-97 [57]					
HEADERS ARE TO BE SCAFCO OR APPROVED EQUAL.								

NON-BEARING JAMB SCHEDULE							
WALL THICKNESS	MAXIMUM WALL HEIGHT	JAMB SIZE					
3 5/8"	12'-0"	362KJS238-38 [50]					
3 5/8"	16'-0"	362KJS238-68 [50]					
6"	12'-0"	600KJS338-54 [50]					
6"	16'-0"	600KJS238-54 [50]					
6"	20'-0"	600KJS338-54 [50]					
6"	24'-0"	600KJS338-68 [57]					
JAMBS ARE TO BE SCAFCO OR APPROVED EQUAL.							

Interior Cold Formed Metal Framing General

INTERIOR WALL FRAMING DETAILS

DESIGN, LLC PLANNING - DESIGN - CONSULTING 1508 TOLLHOUSE ROAD, SUITE 'C CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX) C-35831 02-28-25

NTW/ 350 STATUS

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Current Release Date 08-23-23 Planning Submittal Plan Check Submittal

POSED TE ATER CIV BROADV ATER, CA

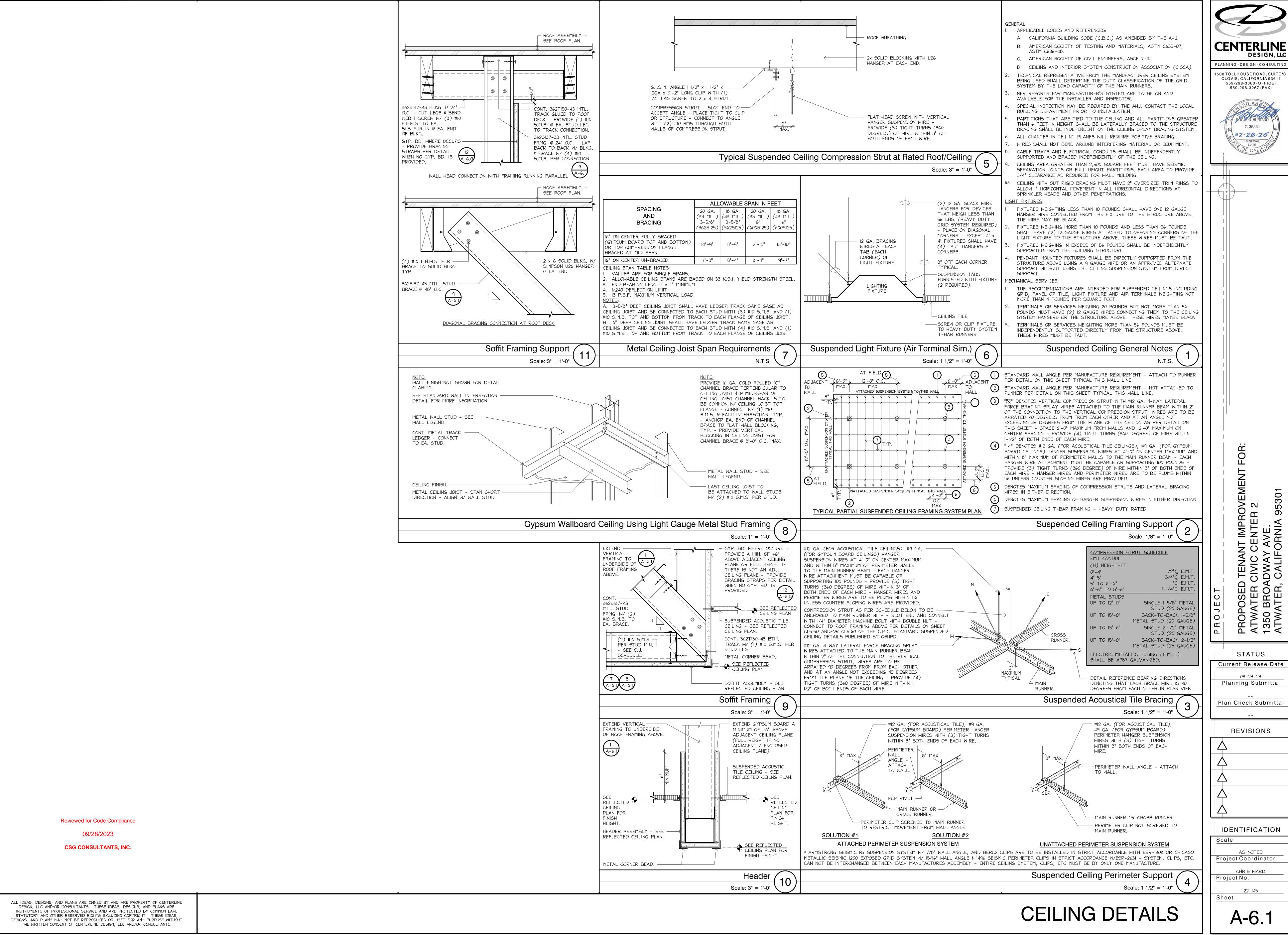
REVISIONS

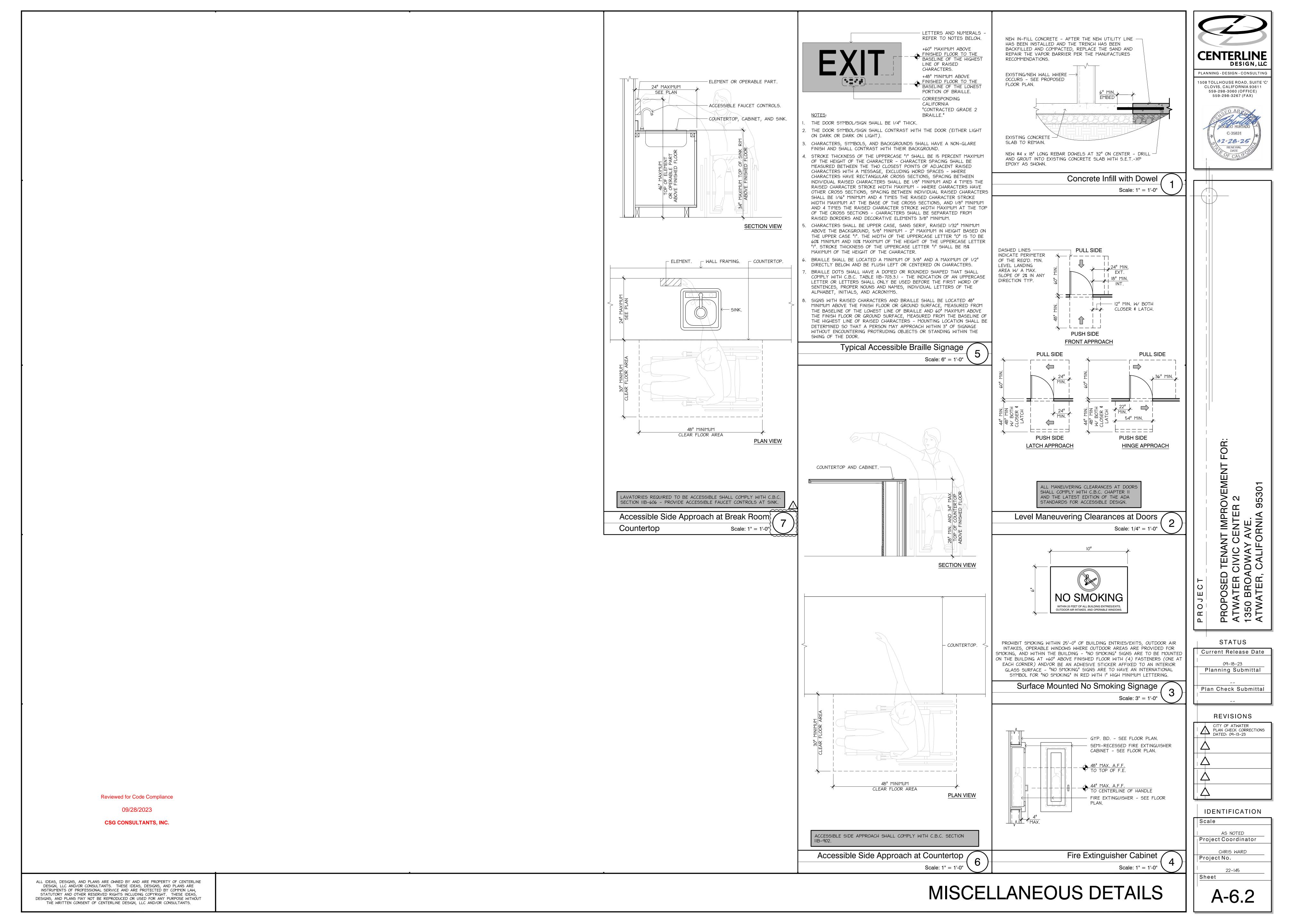
IDENTIFICATION

Scale AS NOTED Project Coordinator Project No.

Sheet

A-6.0





ATWATER CIVIC CENTER 2 INTERIOR DESIGN DRAWINGS

FACILITY DESIGNS

FRESNO, CA 93711 P: 559.432.3200 F: 559.432.4227

OWNER:

ATWATER CIVIC CENTER 1350 BROADWAY AVE. ATWATER, CA 95301

ARCHITECT: CENTERLINE DESIGN 1508 TOLLHOUSE ROAD, SUITE C **CLOVIS, CA 93611**

559 298-3060

CONTRACTOR:

TBD

INTERIOR DESIGN: FACILITY DESIGNS

7511 N. PALM BLUFFS AVE., SUITE 101 FRESNO, CA 93711

DETAIL (NUMBER)

- DIRECTION OF VIEW

559 432-3200

CCIDC

**DISCLAIMER""

2

This drawing including the specifications, concepts, designs and arrangements represented remain the with any work or project other than the specific project

GENERAL NOTES

- THESE CONSTRUCTION DRAWINGS HAVE BEEN ASSEMBLED FOR: ATWATER CIVIC CENTER (OWNER); BY FACILITY DESIGNS, INC. (INTERIOR DESIGNER)
- INTERIOR DESIGNER IS NOT LIABLE FOR ANY CHANGES MADE TO THIS DOCUMENT AFTER ISSUE.
- INTERIOR DESIGNER IS NOT LIABLE FOR ANY CHANGES FROM PROVIDED PLANS TO FIELD CONDITIONS.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDDING AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGINNING OF WORK. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR WHERE THERE IS A DISCREPANCY BETWEEN THE DRAWING AND FIELD CONDITIONS, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, SAFETY OF ALL PARTIES PRESENT ON THE JOB SITE IS THE CONTRACTORS RESPONSIBILITY.
- IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT THE DESIGNER ASSUMES NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE DWG.'S OR THE INTERPRETATION THEREOF. THERE IS NO WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED THAT THE CONDITIONS AND LOCATIONS INDICATED ARE REPRESENTATIVE OF THE EXISTING THROUGHOUT THE EXISTING SPACE OR THAT UNFORESEEN DEVELOPMENTS MAY NOT OCCUR.
- INTERIOR DESIGNER WILL PROVIDE DIGITAL FILES FOR MACHINE CUTTING OF INLAYS OR TEMPLATES UPON REQUEST.
- CONFIRM NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS, NOTIFY DESIGNER IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THAT AREA UNTIL DIRECTION IS GIVEN BY DESIGNER. IF CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM DESIGNER, IT SHALL BE AT CONTRACTOR'S RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
- DO NOT SCALE THE INTERIOR DESIGN DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY DESIGNER IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS OR CONFLICTS WITH DIMENSIONS. DO NOT PROCEED WITH WORK IN THAT AREA UNTIL DIRECTION IS GIVEN BY DESIGNER. IF CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM DESIGNER, IT SHALL BE AT CONTRACTOR'S RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
- WHERE WORK OR EQUIPMENT IS INDICATED 'N.I.C' (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE INSTALLATION U.N.O. (UNLESS OTHERWISE NOTED).
- DIMENSIONS ARE NOT ADJUSTABLE WITHOUT REVIEW OF DESIGNER UNLESS NOTED (+/-_ OR "V.I.F. (VERIFY IN FIELD).
- ALL HEIGHTS ARE DIMENSIONED" A.F.F. (ABOVE FINISHED FLOOR).
- m. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE PLAN, ELEVATION, OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYP.", CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
- "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED.
- o. ABBREVIATIONS THROUGHOUT THE DOCUMENTS ARE IN COMMON USE. CONSULT THE DESIGNER TO DEFINE THE INTENT OF ANY QUESTION. U.N.O. MEANS UNLESS OTHERWISE NOTED.
- p. PROVIDE THE PROPER SEQUENCE OF CONSTRUCTION, INCLUDING FINISH SUBMITTALS AND SHOP DRAWINGS FOR REVIEW BY THE DESIGNER.
- q. ALL FINISH MATERIALS INSTALLED PER MFG. INSTRUCTIONS.
- r. FINISH CODES REFERENCE INTERIOR DESIGN MASTER PLAN (IDMP) AD MY NOT BE SEQUENTIAL IN THE DRAWING SET.

Reviewed for Code Compliance 09/28/2023 **CSG CONSULTANTS, INC.**

SHEET INDEX

ID0 COVER SHEET/GENERAL NOTES FINISH SCHEDULE PROJECT NOTES FLOOR FINISH PLAN WALL FINISH PLAN REFLECTED CEILING PLAN

INTERIOR DESIGN DRAWINGS

INTERIOR ELEVATIONS

ID6

MULTI-ELEVATION REFERENCE

ELEVATION

REFERENCE

TAG

TAG

WALL FINISH TAG

PLEASE FAX OR MAIL SIGNED DRAWINGS TO:

CLIENT SIGN OFF

THE UNDERSIGNED AGREES TO PROCEED WITH

PRODUCTION OF THE ATTACHED DISPLAYS AND

APPROVES ALL DIMENSIONS, CONSTRUCTION DETAILS,

ATTACHMENT METHODS, ETC. AS SHOWN. WE STRONGLY

SUGGEST REVIEWING THESE DOCUMENTS WITH A

FACILITIES MANAGER PRIOR TO SIGNATURE. INITIAL AND

DATE EACH SUBSEQUENT PAGE AS APPROVAL. FACILITY

DESIGNS, INC. RESERVES THE RIGHT TO MAKE MINOR

MODIFICATIONS DURING PRODUCTION THAT DO NOT

AFFECT THE STRUCTURAL INTEGRITY, QUALITY OR

FINISHED APPEARANCE.

FACILITY DESIGNS, INC. 7511 NORTH PALM BLUFFS AVE., SUITE 101 FRESNO, CA 93711 PH: 559-432-3200 FAX: 559-432-4227

SYMBOLS

DETAIL SECTION REFERENCE

KEYNOTE - KEYED NOTE NUMBER REFERENCE

- ELEVATION (NUMBER)

DIRECTION OF VIEW

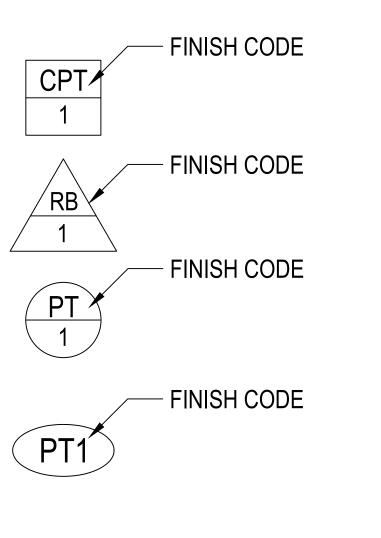
FLOOR FINISH

BASE FINISH

FINISH TAG

CORNER GUARD

FLOOR PATTERN DIRECTION



(CG-1

6/26/23

Drawn By: HL ATWATER CIVIC CENTER 2 FINISH PLANS.dwg

	FINISH SCHEDULE								
CODE	TYPE	MANUFACTURER	DESCRIPTION						
CPT-1	CARPET TILE	SHAW CONTRACT	STYLE: ARRANGE TILE #5T294, COLOR: MIRROR GREY #94535, SIZE: 24"x24", INSTALLATION METHOD: BRICK - SEE FLOOR FINISH PLAN FOR DIRECTION						
CT-1	CERAMIC TILE	DALTILE	STYLE: WANDERWISE PORCELAIN, COLOR: RAOM #WW03, SIZE: 6"x24", THICKNESS: $\frac{5}{16}$ ", GROUT JOINT: $\frac{1}{8}$ ", USE GROUT GRT-1, INSTALLATION METHOD: $\frac{1}{3}$ STAGGER - SEE FLOOR FINISH PLAN FOR DIRECTION (RESTROOM FLOORS)						
CT-2	CERAMIC TILE	DALTILE	STYLE: SCRIPTER PORCELAIN, COLOR: ORACLE #AR60, SIZE: 12"x24", THICKNESS: $\frac{5}{16}$ ", GROUT JOINT: $\frac{1}{8}$ ", USE GROUT GRT-2, INSTALLATION METHOD: SEE WALL FINISH PLAN & ELEVATIONS (RESTROOM WALLS & DRINKING FOUNTAIN BACK WALL ONLY)						
CTT-1	CERAMIC TILE TRIM	DALTILE	STYLE: SCRIPTER BULLNOSE #P43F9, COLOR: ORACLE #1R60, SIZE: 3"x24", USE GROUT GRT-2 (RESTROOM WALL TRIM)						
CTA-1	CERAMIC TILE ACCENT	DALTILE	STYLE: CASCADING WATERS GLASS MOSAIC, COLOR: CERULEAN SWELL #CW45, SIZE: RANDOM STRAIGHT STACKED MOSAIC (12"x11 \frac{3}{16}" MESH MOUNTED SHEET), THICKNESS: \frac{5}{16}", USE GROUT GRT-2, INSTALLATION METHOD: SEE ELEVATIONS (RESTROOM ACCENT)						
CTA-2	CERAMIC TILE ACCENT	DALTILE	STYLE: MESMERIST GLAZED CERAMIC, COLOR: CHARM #MM32, SIZE: 3"x12", THICKNESS: 5/16", GROUT JOINT: 1/8", USE GROUT GRT-3, INSTALLATION METHOD: 50% HORIZONTAL STAGGER (BREAKROOM)						
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG FLOORING	STYLE: IMPERIAL TEXTURE, COLOR: FIELD GRAY #51927, SIZE: 12"x12", THICKNESS: 1/8" (ELECTRICAL ROOM & UTILITY ONLY)						
VW-1	VINYL WOOD FLOORING	J&J FLOORING	STYLE: POWER PLAY #V520, COLOR: INFORMATION #I033, SIZE: 9"x48", INSTALLATION METHOD: $\frac{1}{3}$ STAGGER WOOD PLANK LOOK - SEE FLOOR FINISH PLAN FOR DIRECTION						
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	STYLE: COMPOUND #4077V, COLOR: CHISEL #77520, SIZE: 24"x24", INSTALLATION METHOD: 50% STAGGER - SEE FLOOR FINISH PLAN FOR DIRECTION (BREAKROOM ONLY)						
GRT-1	GROUT	CUSTOM BUILDING PRODUCTS	STYLE: PRISM, COLOR: #542 GRAYSTONE						
GRT-2	GROUT	CUSTOM BUILDING PRODUCTS	STYLE: PRISM, COLOR: #545 BLEACHED WOOD						
GRT-3	GROUT	CUSTOM BUILDING PRODUCTS	STYLE: PRISM, COLOR: #540 TRUFFLE						
ACB-1	ALUMINUM COVE BASE	SCHLUTER SYSTEMS	STYLE: DILEX-AHK COVE BASE, #AHK1S80AE, FINISH: SATIN ANODIZED ALUMINUM, THICKNESS: $\frac{5}{16}$ "						
AT-1	ALUMINUM TRIM	SCHLUTER SYSTEMS	STYLE: SCHIENE EDGE TRIM, #AE80, FINISH: SATIN ANODIZED ALUMINUM, THICKNESS: 5/16" - USE IN RESTROOMS BETWEEN MIRROR & ACCENT TILE AND DOOR JAMB & WALL TILE						
RB-1	RUBBER BASE	TARKETT/JOHNSONITE	STYLE: TRADITIONAL WALL BASE, COLOR: MINK WG #TC6, SIZE: 4" COVED						
RB-2	RUBBER BASE	TARKETT/JOHNSONITE	STYLE: TRADITIONAL WALL BASE, COLOR: MINK WG #TC6, SIZE: 6" COVED (UTILITY ONLY)						
SS-1	SOLID SURFACE	BEDROSIANS	STYLE: NAPOLI ENGINEERED QUARTZ, #ENQNAPOLIS-LABZP, SLAB SIZE: 127"x64"x2cm, FINISH: POLISHED, EDGE DETAIL TO BE 1 ½" EASED EDGE						
SS-2	SOLID SURFACE	LG HAUSYS	STYLE: VIATERA, COLOR: GRAPHITE GRAY, EDGE DETAIL TO BE 1 $\frac{1}{2}$ " EASED EDGE						
PL-1	PLASTIC LAMINATE	FORMICA	STYLE: INKED OAK PURE GRAIN #5792-PG (INTERIOR DOORS & CABINET FRONTS)						
PL-2	PLASTIC LAMINATE	WILSONART	STYLE: CRISP LINEN #4942-38, FINE VELVET FINISH (COUNTERTOPS - SEE ELEVATIONS FOR LOCATIONS)						
PT-1	PAINT	SHERWIN WILLIAMS	COLOR: CEILING BRIGHT WHITE #SW7007 (FIELD)						
PT-2	PAINT	SHERWIN WILLIAMS	COLOR: DORIAN GRAY #SW7017 (TAUPE)						
PT-3	PAINT	SHERWIN WILLIAMS	COLOR: GRANITE PEAK #SW6250 (BLUE)						
FRP-1	FIBERGLASS REINFORCED PANEL	NUDO	STYLE: LP-F9, COLOR: WHITE, TEXTURE: PEBBLED (UTILITY ONLY)						
CG-1	CORNER GUARD	KOROSEAL	WALL PROTECTION SYSTEM, #G815, COLOR: PURITY (5E), SIZE: 1-1/2" x 1-1/2" EXTRUDED CORNER, HEIGHT: 48" - SEE MANUFACTURER'S INSTALLATION GUIDE FOR ADHESIVE REQUIREMENTS						
CG-2	CORNER GUARD	INPRO	TAPE-ON CORNER GUARD, COLOR: STORM CLOUD (0372), SIZE: 1-1/2" x 1-1/2" EXTRUDED 90° CORNER, HEIGHT: 48" - SEE MANUFACTURER'S INSTALLATION GUIDE FOR ADHESIVE REQUIREMENTS						
BP-1	BATH PARTITION	ANY MANUFACTURER	LAMINATE FINISH TO BE WILSONART, CRISP LINEN #4942-38						
WC-1	WINDOW COVERING	JORDAN TAYLOR (OR EQUAL)	STYLE: THE ROLLER SHADE SHOP COLLECTION - ECONOSCREEN, 3% OPENING, COLOR: WHITE						
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG COMMERCIAL	STYLE: CORTEGA SECOND LOOK ii #2767, COLOR: WHITE, SIZE: 24" x 48" x 3/4", 15/16"ANGLED TEGULAR GRID						

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SUITE 101 FRESNO, CA 93711

P: 559.432.3200 F: 559.432.4227 www.facilitydesigns.com

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FINISH SCHEDULE

6/26/23

Drawn By: HL

Cad File:
ATWATER CIVIC CENTER 2 FINISH PLANS.dwg

FLOORING

- 1. USE RENO-U AEU-80, SATIN ANODIZED ALUMINUM FINISH BETWEEN CERAMIC TILE & VINYL TILE/VCT. RUBBER REDUCER NOT ACCEPTABLE.
- 2. FLOORING SUBCONTRACTOR TO FLOAT VINYL WOOD TO MEET THICKNESS OF CERAMIC TILE.
- 3. FLOORING SUBCONTRACTOR TO BUTT CARPET TO VINYL TILE. RUBBER REDUCER NOT ACCEPTABLE.
- 4. MILLWORK REVEAL RUBBER BASE TO BE MITERED IN OUTSIDE AND INSIDE CORNERS.
- 5. FLOORING SUBCONTRACTOR TO FOLLOW VINYL TILE MANUFACTURERS RECOMMENDATION FOR MOISTURE BARRIER ON CONCRETE SLAB.

WALLS/CEILING

- 6. WALL TEXTURE TO BE LEVEL 4 FINISH.
- 7. PAINT FINISH TO BE EGGSHELL ENAMEL THROUGHOUT. RESTROOMS & BREAKROOM TO BE SEMI-GLOSS ENAMEL.
- 8. PAINTER TO MEET WITH FACILITY DESIGNS PRIOR TO PAINTING TO CONFIRM PAINT LOCATIONS.
- 9. PAINTER TO PAINT ALL RECESSED CAN TRIMS AND VENTS IN SOFFITS TO MATCH SOFFIT COLOR. TRIMS IN SILVER/ALUMINUM FINISH DO NOT NEED PAINTING.
- 10. SEE RESTROOM ELEVATIONS FOR TILE AND PAINT DETAILS. WAINSCOT IN RESTROOMS APPROXIMATELY 63"H WITH PT-2 ABOVE.
- 10.1. TILE INSTALLER TO USE AT-2 BETWEEN WALL TILE AND DOOR JAMB TO ACCOMMODATE TILE THICKNESS.
- 11. SEE REFLECTED CEILING PLAN SHEET ID5 FOR ALL SOFFIT FINISHES AND PAINT COLORS.

ELECTRICAL

- 12. SEE ELECTRICAL PLAN FOR ALL GENERAL & SPECIALITY LIGHTING SPECIFICATIONS AND FINISHES.
- 13. FACILITY DESIGNS TO VERIFY THAT ALL FIXTURE FINISHES ARE SPECIFIED CORRECTLY.
- 14. ELECTRICAL PLATES & RECEPTACLES TO BE WHITE.
- 15. DECORATIVE LIGHTING TO BE:
- 15.1. RESTROOM VANITY LIGHT: VISUAL COMFORT & CO., MODERN COLLECTION, DESIGNER: SEAN LAVIN, STYLE: SPAN 24 BATH, #700BCSPANB2S-LED930-277, FINISH: SATIN NICKEL, SIZE: 24.6"x5.5"x4.2", INSTALLATION HEIGHT: SEE ELEVATIONS.

WINDOWS, DOORS, HARDWARE & CABINETRY

- 16. DOORS TO BE PL-1 LAMINATE, FORMICA, INKED OAK #5792-PG.
- 17. DOOR FRAMES TO BE WESTERN INTEGRATED MATERIALS, INC. (OR EQUAL) CLEAR ANODIZED (STAINLESS LOOK).
- 7.1. AT-2 TO BE INSTALLED AROUND DOOR JAMBS WHERE WALL TILE IS SPECIFIED TO ACCOMMODATE TILE THICKNESS (RESTROOMS).
- 18. DOOR HARDWARE TO BE SCHLAGE AL SERIES, STYLE: NEPTUNE (NEP), FINISH TO BE #626 BRUSHED CHROME (OR EQUAL). ALL DOOR HARDWARE AND ACCESSORIES TO HAVE THE SAME FINISH.
- 19. ALL CABINETRY TO HAVE WHITE MELAMINE INTERIORS.
- 20. CABINETRY HARDWARE TO BE: CHARLES McMURRAY, #J483-SN, $6\frac{5}{8}$ ", JAMISON COLLECTION PULL, FINISH: SATIN NICKEL.
- 20.1. ALL ANGLED FASCIA CABINETRY HARDWARE TO BE CONCEALED.

PLUMBING & APPLIANCES

- 21. ALL PLUMBING FIXTURES TO BE WHITE.
- 22. WALL HUNG SINK IN RESTROOMS TO BE: AMERICAN STANDARD, MURRO WALL-HUNG EVERCLEAN SINK LESS OVERFLOW WITH CENTER HOLE ONLY, #0955901EC.020, COLOR: WHITE.
- 22.1. COORDINATING SHROUD TO BE: AMERICAN STANDARD, VITREOUS CHINA SHROUD, #0059020EC, COLOR: WHITE.
- 22.1. FAUCET TO BE KOHLER, FORTE STANDARD SINGLE HOLE FAUCET, #K-10215-4-G, COLOR: BRUSHED CHROME.
- 23. UNDERMOUNT SINK IN RESTROOMS TO BE: KOHLER, CAXTON 19 $\frac{1}{4}$ " OVAL UNDERMOUNT BATHROOM SINK, #K-2210-0, FINISH WHITE.
- 23.1. FAUCET TO BE KOHLER, FORTE STANDARD SINGLE HOLE FAUCET, #K-10215-4-G, COLOR: BRUSHED CHROME.
- 24. KITCHEN SINK IN BREAK ROOM TO BE: KOHLER, RIVERBY UNDERMOUNT KITCHEN SINK, #K-8689-5U, SIZE: 33"x22"x5 $\frac{7}{8}$ ", FINISH: WHITE.
- 24.1. FAUCET TO BE: KOHLER, SIMPLICE PULL-DOWN KITCHEN SINK FAUCET WITH THREE-FUNCTION SPRAYHEAD, #K-596, FINISH: VIBRANT STAINLESS.
- 25. KITCHEN APPLIANCES TO BE THE FOLLOWING:
 - REFRIGERATOR: WHIRLPOOL, 36 INCH WIDE FRENCH DOOR REFRIGERATOR WITH WATER DISPENSER, 25 CU. FT. #WRF535SWHZ,

SIZE: $70\frac{1}{8}$ "Hx35 $\frac{5}{8}$ "Wx35 $\frac{1}{2}$ "D, FINISH: FINGERPRINT RESISTANT STAINLESS STEEL, QTY: 2.

DROP-IN RANGE: GE, 30" DROP-IN ELECTRIC RANGE, #JD630SFSS, SIZE: 27"Hx31 $\frac{1}{4}$ "Wx28 $\frac{1}{2}$ "D, FINISH: STAINLESS STEEL, QTY: 1 - INSTALL

COOKTOP AT 34" AFF MAX

OVER THE RANGE MICROWAVE: GE, 1.7 CU. FT. OVER-THE-RANGE SENSOR MICROWAVE OVEN, #JVM6175SKSS, SIZE: $16\frac{5}{16}$ "x29 $\frac{7}{8}$ "Wx15 $\frac{9}{16}$ "D,

FINISH: STAINLESS STEEL, QTY: 1.

UNDER COUNTER MICROWAVE: GE, PROFILE SERIES 2.2 CU. FT. BUILT-IN SENSOR MICROWAVE OVEN, #PEB7227SLSS,

SIZE: $14"Hx24\frac{1}{8}"Wx19\frac{3}{4}"D$, FINISH: STAINLESS STEEL, QTY: 1.

UNDER COUNTER MICROWAVE TRIM KIT: GE, REQUIRED 27" BUILT-IN TRIM KIT, #JX7227SLSS, SIZE: $18\frac{7}{8}$ "Hx26 $\frac{3}{4}$ "W, FINISH: STAINLESS STEEL,

QTY: 1.

MISC ITEMS

- 26. ALL MIRRORS IN RESTROOMS TO BE ADHERED DIRECTLY TO THE WALL. SEE ELEVATIONS.
- 27. HANDICAP SIGNAGE FOR RESTROOMS TO BE BLACK WITH WHITE LETTERING AND SYMBOLS (BLUE NOT ACCEPTABLE).
- 28. RECESSED PAPER TOWEL DISPENSER TO BE BOBRICK #B-4369 CONTURA SERIES, SATIN FINISH STAINLESS STEEL
- 29. SOAP DISPENSER TO BE BOBRICK #B-8222 CONTURA SERIES, 34 fl-oz., 4" SPROUT, FINISH: BRIGHT POLISHED.
- 30. RECESSED MULTI-ROLL TOILET DISPENSER TO BE BOBRICK #B-4388 CONTURA SERIES, SATIN FINISH STAINLESS STEEL.
- 31. SURFACE MOUNTED SEAT-COVER DISPENSER TO BE BOBRICK #B-4221 CONTURA SERIES, SATIN FINISH STAINLESS STEEL.
 32. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL TO BE BOBRICK #B-270 CONTURA SERIES, SATIN FINISH STAINLESS STEEL



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Revisions:

Dato:

Date: 6/26/23

Drawn By: HL

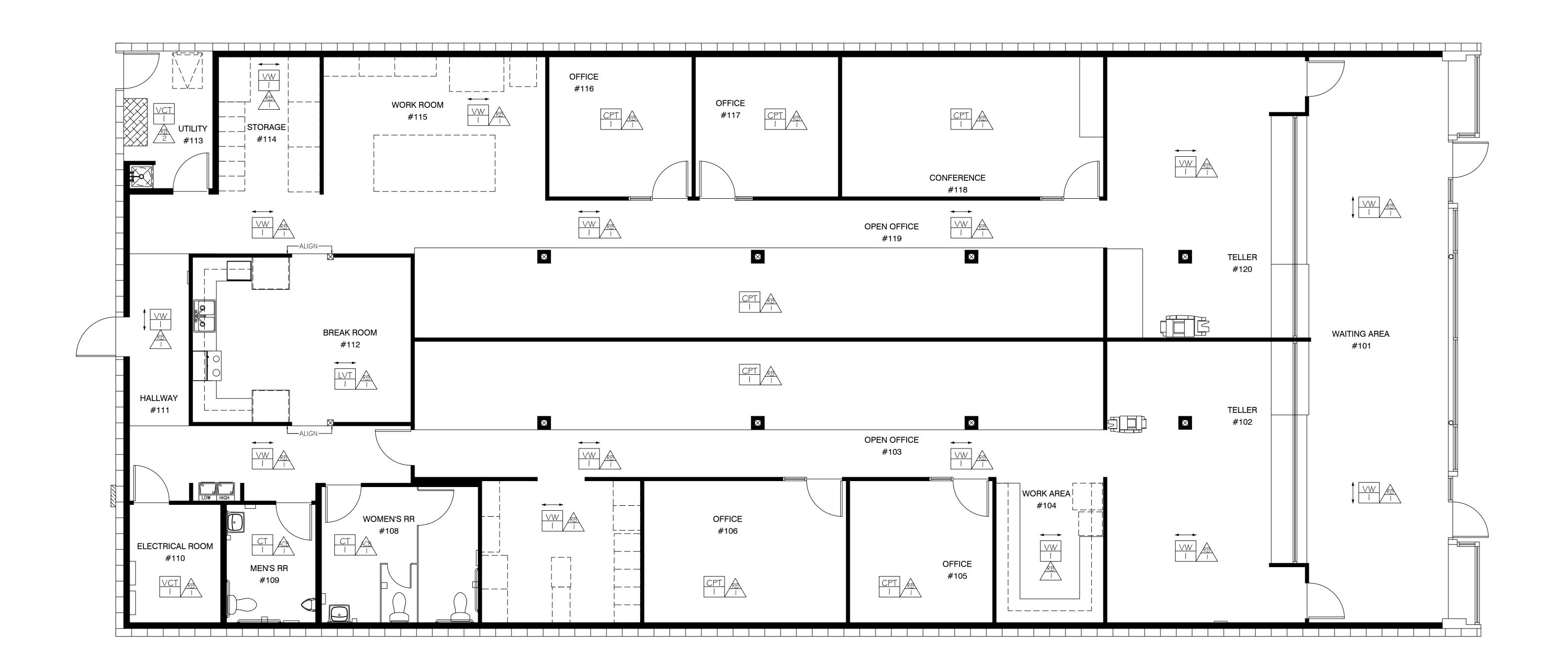
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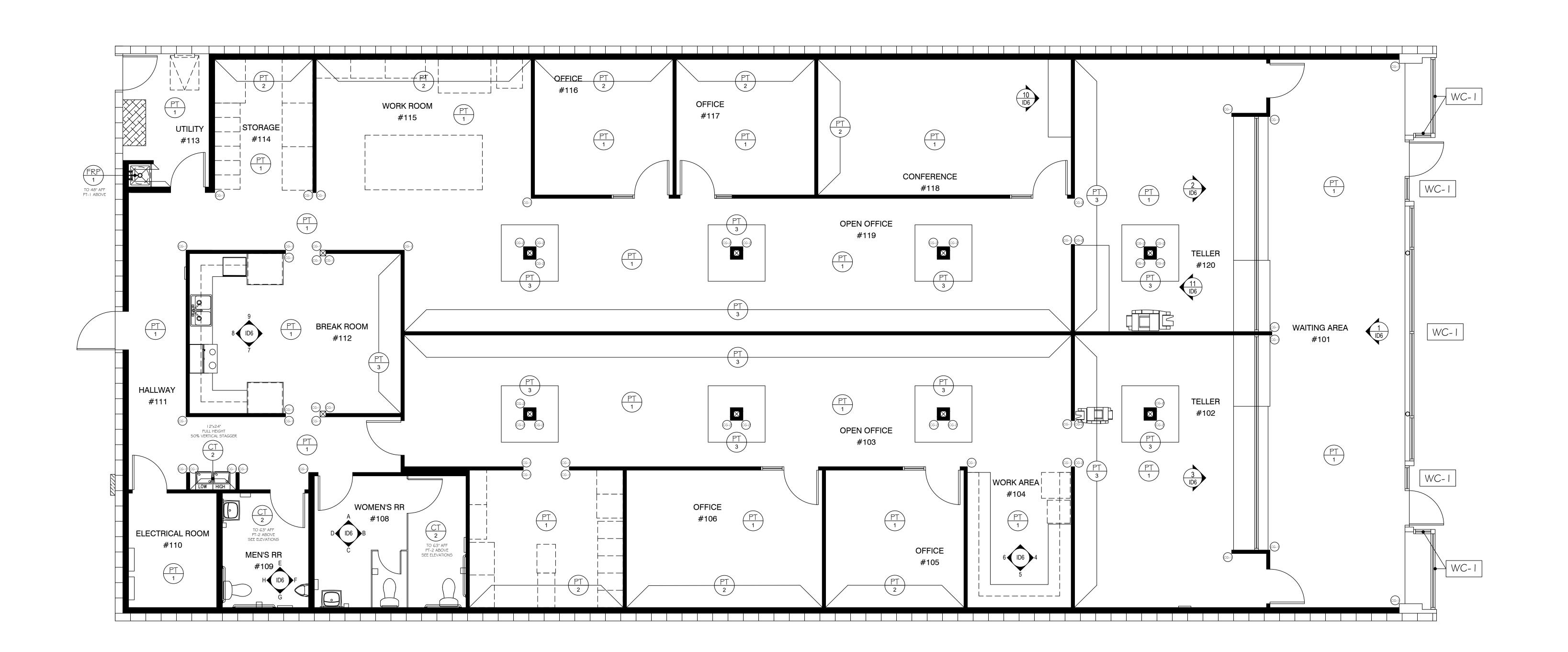
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Date:	6/26/23
Drawn By:	HL
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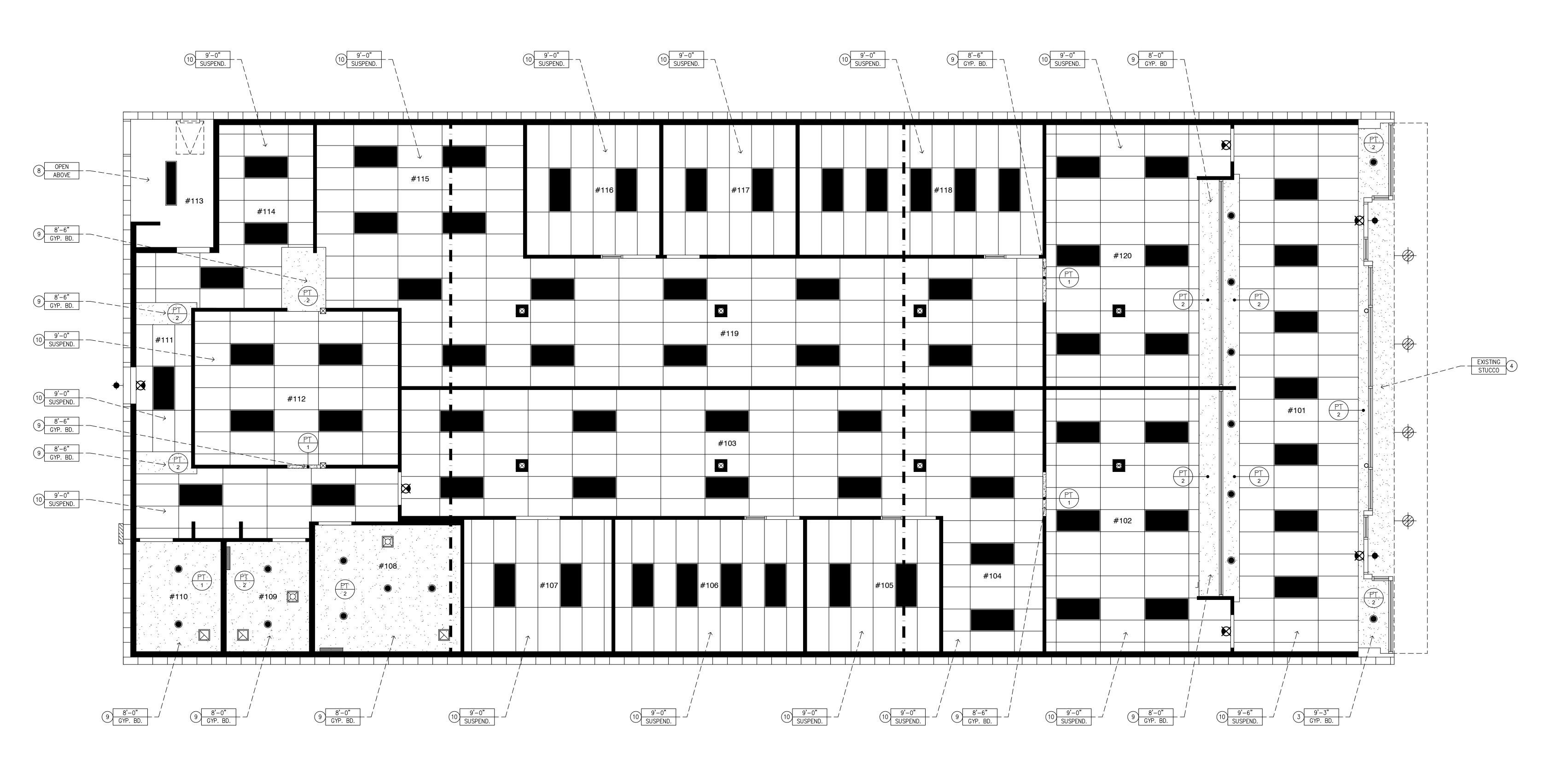
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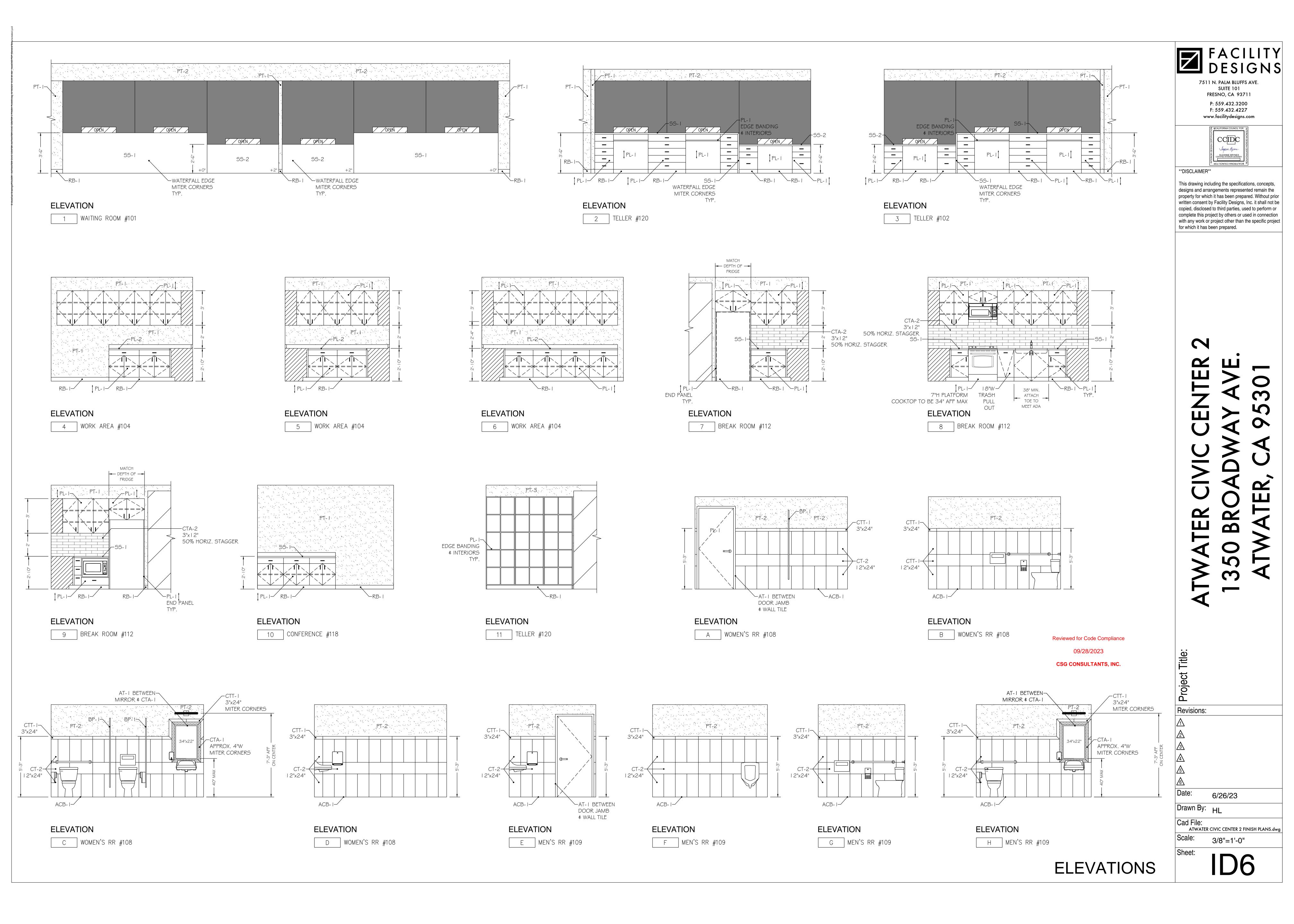
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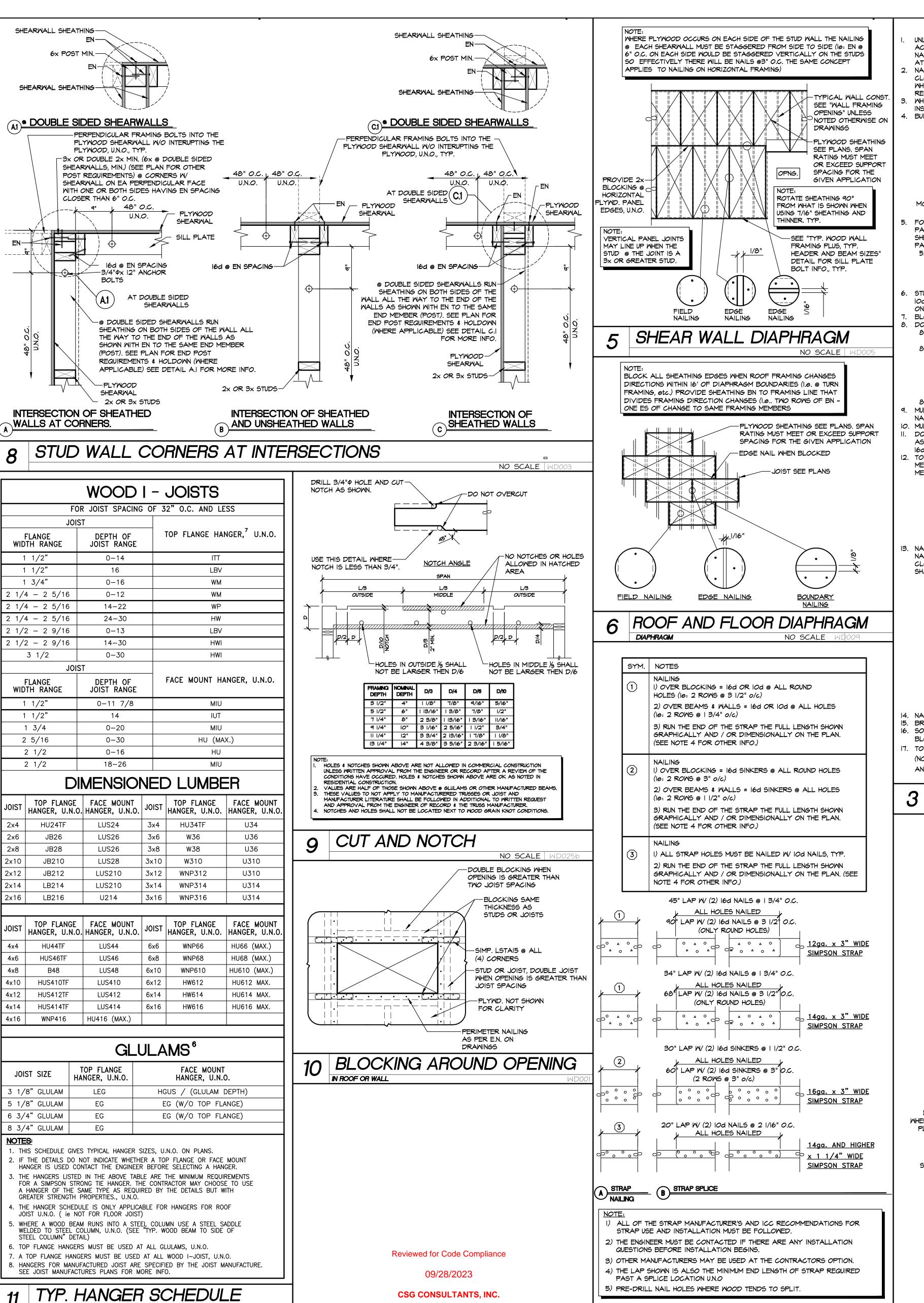
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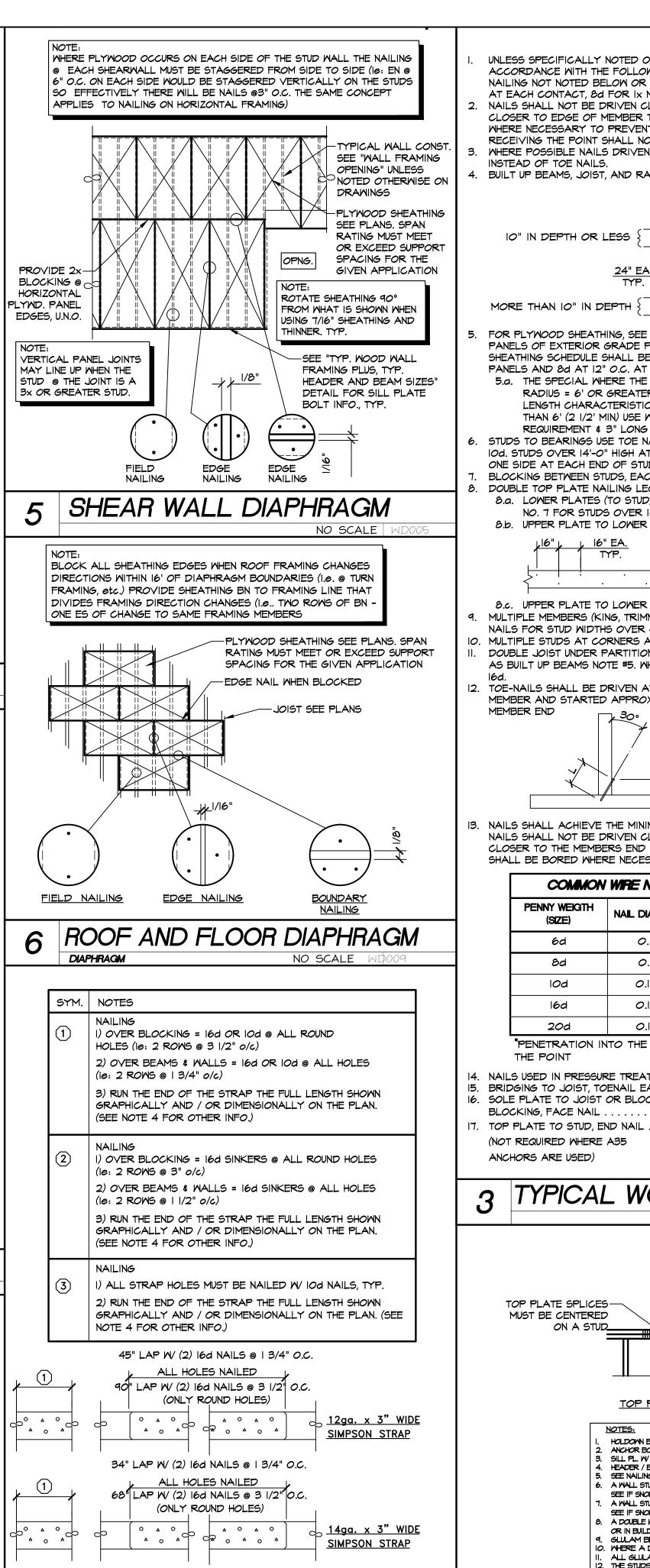
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THE SOILS REPORT. IN ITS ENTIRELY SHALL BE INCLUDED AS PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL OF THE SOILS REPORTS RECOMMENDATIONS. ALL OF THE SOILS	 THIS BUILDING HAS BEEN DESIGNED TO SUSTAIN, WITHIN THE LIMITATIONS SPECIFIED IN THE 2022 CALIFORNIA BUILDING CODE (CBC), ALL DEAD LOADS AND OTHER APPLICABLE LOADS SPECIFIED IN CHAPTER 16 OR ELSEWHERE IN THE CODE. 	1. THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN	YES N/A 4.C. CONCRETE CONSTRUCTION PER CBC 1705.3	1. DETAILS AND DIMENSIONS OF CONSTRUCTION SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR AND ANY DISCREPANCY BETWEEN THE PLANS AND THE INTENT OF THE PROJECT SHALL BE PROMPTLY REPORTED TO THE ENGINEER BEFORE CONSTRUCTION	STANDARD NOTES AND DETAILS S1.1 ······ STANDARD NOTES	
REPORTS RECOMMENDATIONS MUST BE FOLLOWED. FOR RECOMMENDED SOIL BEARING PRESSURE, FOUNDATION MATERIAL AND SITE GRADING SEE SOILS AND GEOLOGICAL REPORT BY: NONE PROVIDED — USE CODE MIN.	2. ALL ALLOWABLE STRESSES AND SOIL—BEARING VALUES SPECIFIED IN THE CODE FOR WORKING STRESS DESIGN HAVE BEEN INCREASED ONE THIRD WHEN CONSIDERING WIND OR EARTHQUAKE FORCES EITHER ACTING ALONE OR WHEN COMBINED WITH VERTICAL	2022 CALIFORNIA BUILDING CODE (CBC) DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR: 1.a. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL	VERIFICATION AND CONTINUOUS PERIODIC REFERENCE STANDARD	OR FABRICATION BEGINS. "DO NOT SCALE DRAWINGS". 2. ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY	S1.2 · · · · · STANDARD NOTES AND DETAILS ROOF	
REPORT #: <u>N/A</u> DATED #: <u>N/A</u> <u>SPECIFIC DESIGN VALUES:</u>	LOADS. NO INCREASE HAS BEEN TAKEN FOR VERTICAL LOADS ACTING ALONE. 3. EACH COMPONENT HAS BEEN DESIGNED TO RESIST THE MOST CRITICAL EFFECT RESULTING FROM ALL APPLICABLE LOAD COMBINATIONS REQUIRED BY THE CODE	DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATIONS REQUIRING SPECIAL INSPECTIONS.	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	THIS DRAWING ARE OWNED BY AND THE PROPERTY OF BRAD YOUNG & ASSOCIATES, INC. (BYA), AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT ONLY. NONE OF SUCH IDEAS, DESIGNS, APPRAISE OF THE ANY PERSON FIRM	S2.1······ ROOF FRAMING PLAN FRAMING DETAILS	CENTERL
DESIGN SOIL BEARING VALUE = 1500 PSF FOR: DL + LL DESIGN SOIL BEARING VALUE = 2000 PSF FOR: DL + LL + (EQ OR W)	4. GRAVITY LOADS: (THESE ARE THE GENERAL DESIGN LOADS. THEY MAY BE DIFFERENT IN LOCALIZED AREAS.)	1.b. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS IF APPLICABLE.	2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2, ITEM 5B AWS D1.4 ACI 318: 3.5.2	ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BYA, FILING THESE DRAWINGS WITH ANY PUBLIC AGENCY IS NOT PUBLICATION OF SAME. REUSE. REPRODUCTION OR PUBLICATION BY ANY METHOD IN WHOLE OR IN	S3.1······ FRAMING DETAILS	DESIGN - CO
COEFFICIENT OF FRICTION = , PASSIVE PRESSURE = pcf ACTIVE PRESSURE = pcf , AT-REST PRESSURE = pcf	4.A. DEAD LOADS: ROOF DEAD LOAD = 13 PSF	1.c. COPIES OF TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THIS ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUTIONS WITHIN ONE WEEK OF THE TEST OR INSPECTION.	3. INSPECTION BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF X	PART IS PROHIBITED. TITLE TO THESE PLANS REMAINS WITH THE BRAD YOUNG & ASSOCIATES, INC. AND VISUAL CONTACT WITH THEM CONSTITUTES PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.		1508 TOLLHOUSE ROAD CLOVIS, CALIFORNIA
EXISTING FOOTING OR FOUNDATIONS WHICH MAY BE AFFECTED BY ANY EXCAVATION SHALL BE UNDERPINNED ADEQUATELY OR OTHERWISE PROTECTED AGAINST SETTLEMENT AND SHALL BE PROTECTED AGAINST LATERAL MOVEMENT.	NEW ENTRY ROOF DEAD LOAD = N/A CANOPY ROOF DEAD LOAD = N/A WOOD STUD WALL = N/A	1.d. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN IF UNCORRECTED TO THE ENGINEER OF RECORD AND TO THE BUILDING OFFICIAL.	CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED. 4. VERIFY USE OF REQUIRED ACI 318: 3.5	3. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL, COUNTY, STATE, OR FEDERAL AGENCIES HAVING JURISDICTION. BRAD YOUNG & ASSOCIATES, INC. ASSUMES		559-298-3060 (OFF 559-298-3267 (F
FILLS USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE. A SOIL	CMU WALL = N/A 4.B. LIVE LOADS:	1.e. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS TO THE BEST OF THE INSPECTOR'S KNOWLEDGE. IN CONFORMANCE WITH THE APPROVED PLANS AND	4. VERIFY USE OF REQUIRED X ACI 316: 3.5 CH. 4, 5.2–5.4	NO RESPONSIBILITY FOR SUPERVISION OF CONSTRUCTION OR PROPER EXECUTION OF THE WORK SHOWN ON THESE DRAWINGS. SAFETY METHODS AND TECHNIQUES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY DEVIATIONS OR UNAUTHORIZED CHANGES TO THESE DRAWINGS ARE NOT THE RESPONSIBILITY OF BRAD YOUNG &		STRUCTURAL EN C 345 POLLASKY CLOVIS, CALIFORNIA 93612 PHONE: (559) 323-9600 FAX: (559) 323-
INVESTIGATION REPORT. AND A REPORT OF SATISFACTORY PLACEMENT OF FILL BOTH ACCEPTABLE TO THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD SHALL BE SUBMITTED. A SOILS REPORT PROVIDES THE BUILDING DESIGN ENGINEER WITH SITE	ROOF LIVE LOAD = 20 PSF ROOF POPUP/MANSARD LIVE LOAD = N/A	SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CBC 2. ALL TEST AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND	IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	ASSOCIATES, INC. DEVIATIONS FROM THE ORIGINAL DRAWINGS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF THE PROGRESS OF THE PROJECT TO FACILITATE OUR	Reviewed for Code Compliance	PROFESSIONAL CHEST SERVICES
PREPARATION AND FOUNDATION DESIGN RECOMMENDATIONS. IF THE BUILDING OWNER OR TENANT AUTHORIZING THE CURRENT CONSTRUCTION DOES NOT PROVIDE A SOILS REPORT TO THE ENGINEER OF RECORD, THE OWNER OR TENANT AUTHORIZING THE	FLOOR OFFICE = N/A PARTITION LOAD = N/A FLOOR EXTERIOR = N/A	INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT AND NOT THE CONTRACTOR PER CBC SECTION 109, APPENDIX GAP CHAPTER, JOB SITE VISITS BY THE ENGINEER OF RECORD DOES NOT CONSTITUTE A SPECIAL INSPECTION.	DETERMINE THE TEMPERATURE OF THE CONCRETE. 6. INSPECTION OF CONCRETE AND	ON-SITE VISITS TO ANSWER QUESTIONS AND VIEW THE PROGRESS AND QUALITY OF WORK IF REQUIRED.	09/28/2023	\(\frac{\circ}{\circ}\) \(\fr
CURRENT CONSTRUCTION BY PROCEEDING WITH CONSTRUCTION, IS PROCEEDING AT THEIR OWN RISK AND THIS ENGINEER ASSUMES NO RESPONSIBILITY FOR THE POSSIBLE MOVEMENT OF THE SOILS SUPPORTING THE BUILDING FOUNDATION.	FLOOR LIGHT STORAGE = N/A FLOOR HEAVY STORAGE = N/A	3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND INSPECTION FIRM WITH A SCHEDULE TO FACILITATE THE PROPER COORDINATION OF WORK.	SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	4. THE CONTRACTOR SHALL NOTIFY OUR OFFICE 48 HOURS PRIOR TO THE FOLLOWING ONLY IF THESE PLANS OR ANY *OTHER AUTHORITY PHASES OF CONSTRUCTION SPECIFICALLY REQUIRES THE ENGINEER OF RECORD TO MAKE A JOB INSPECTION.	CSG CONSULTANTS, INC.	PUCTURAL OF CALFORNIA
FOUNDATIONS SUPPORTING WOOD SHALL EXTEND AT LEAST 8" ABOVE THE ADJACENT FINISH GRADE.	FLOOR RESIDENTIAL BASIC = N/A BALCONIES/DECKS = N/A	4. PORTIONS OF WORK REQUIRING SPECIAL INSPECTION: 4.A. SOIL AND FOUNDATION: a.) SOIL CONDITIONS, FILL PLACEMENT AND LOAD—BEARING YES N/A	7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	4.A. FOUNDATION POURS* 4.B. AFTER THE ERECTION OF THE SUPERSTRUCTURE AND PRIOR TO CLOSING-IN	4 STRUCTURAL DRAWINGS INDEV	BYA
VAPOR BARRIER SHOULD CONFORM WITH ASTM @ 775-85 STANDARD PRACTICE FOR SELECTION OF VAPOR RETARDER FOR THERMAL INSULATION. SITE PREPARATION SHOULD BE DONE ACCORDING TO THE SITE SOILS REPORT. I.	STORAGE = N/A 4.C. SNOW LOADS: GROUND SNOW LOAD, Pg = N/A	REQUIREMENTS PER CBC 1705.6	8. INSPECTION OF PRE-STRESSED CONCRETE:	OF ANY PHASE.* 5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL	1 STRUCTURAL DRAWINGS INDEX .	
GENERAL SITE CLEARING SHOULD INCLUDE REMOVAL OF VEGETATION; EXISTING UTILITIES; STRUCTURES INCLUDING FOUNDATION; BASEMENT WALLS AND FLOORS; EXISTING STOCKPILE SOIL; TREES AND ASSOCIATED ROOT SYSTEMS; RUBBLE;	SLOPED ROOF SNOW LOAD, Ps = N/A 5. WIND LOADS:	1. VERIFY MATERIALS BELOW FOOTING ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY PRIOR LISTED LISTED X	a. APPLICATION OF PRESTRESSED FORCES. b. GROUTING OF BONDED X ACI 318: 18.20 ACI 318: 18.18.4	DIMENSIONS, GRADES, AND OTHER CONDITIONS, AND SHALL CORRELATE AT THE JOB SITE ALL SUCH ITEMS. GENERAL CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER FOR CLARIFICATION AND CORRECTION PRIOR TO BEGINNING ANY WORK.	A.B. ANCHOR BOLT EOR ENGINEER OF O.U. ON CENTER ADJ. ADJUSTABLE RECORD OPNG. OPENING ABV. ABOVE ENGR. ENGINEER OPP. OPPOSITE	
RUBBISH; AND ANY LOOSE AND/OR SATURATED MATERIAL. SITE STRIPPING SHOULD EXTEND TO A MINIMUM DEPTH OF 2 TO 4 INCHES, OR UNTIL ALL ORGANICS IN EXCESS OF 3 PERCENT BY VOLUME ARE REMOVED. DEEPER STRIPPING MAY BE	a) BASIC WIND SPEED (3—SECOND GUST), V = 93 mph b) RISK CATEGORY II	TO PLACEMENT OF REBAR 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL X	PRESTRESSED TENDONS IN THE SEISMIC FORCE RESISTING SYSTEM	6. ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS ARE DESIGNED AS IN THEIR FINAL LOCATION. BRAD YOUNG & ASSOCIATES, INC. HAS NOT PERFORMED CONSTRUCTION ENGINEERING (SHORING CALCULATIONS) OR ENGINEERING NECESSARY TO PLACE ANY	A.C.I. AMERICAN EQ. EQUIPMENT O.H. OPPOSITE HAND CONCRETE ES EDGE SCREW OR O.D. OUTSIDE DIAMETER A.I.S.C. AMERICAN FXIST (F) FXISTING PL. PLATE	
REQUIRED IN LOCALIZED AREAS. THESE MATERIALS WILL NOT BE SUITABLE FOR USE AS ENGINEERED FILL.	c) EXPOSURE C 6. SEISMIC LOAD: a) IMPORTANCE FACTOR I = 1.00 (RISK CATEGORY II)	3. PERFORM CLASSIFICATION AND TESTING OF X	9. ERECTION OF PRECAST X ACI 318: CH. 16	STRUCTURAL MEMBERS IN THEIR FINAL LOCATION (ERECTION CALCULATIONS). 7. DETAILS AND NOTES ON TYPICAL SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN	A.I.S.C. AMERICAN EXIST (E) EXISTING PL. PLATE INSTITUTE OF EXP. EXPANSION PENNY(d) NAILS STEEL CONSTR. FIN. FINISH PLYWD. PLYWOOD A.S.T.M. AMERICAN SOCIETY F.N. FIELD NAILING P.S.F. POUNDS PER	
DEVELOP AND MAINTAIN SITE GRADES WHICH WILL RAPIDLY DRAIN SURFACE AND ROOF RUNOFF AWAY FROM FOUNDATIONS AND FLOOR SLABS — BOTH DURING AND AFTER CONSTRUCTION. ADJACENT OF AT LEAST 5' AWAY FROM STRUCTURES TO	b) SPECTRAL RESPONSE ACCELERATION, Ss = 0.601 S1 = 0.246	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	10. VERIFICATION ON IN—SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN	OTHERWISE. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. TYPICAL DETAILS ARE AT NO SCALE. 8. DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS OR DETAIL ARE NOT CLEAR.	FOR TESTING FM FACE MOUNT SQURE FOOT & MATERIALS FLR. FLOOR P.S.I. POUNDS PER APA AMERICAN PLYWOOD FTF FLOOR TO FLOOR SQUARE INCH	
PRECLUDE POUNDING OF WATER ADJACENT TO FOUNDATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING NECESSARY TO SUPPORT CUT AND / OR FILL BANKS DURING EXCAVATION. AND FOR FORMING AND	c) SITE CLASS D d) SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.529	5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBERVE SUBGRADE AND VERIFY SITE HAS BEEN PREPARED X X PROPERLY	POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL X ACI 318: 6.2	OR DISCREPANCIES EXIST ON THE DRAWINGS OR SPECIFICATIONS, CONTACT THE ENGINEER.	ASSOCIATION FDN. FOUNDATION PRESS. PRESSURE ARCH. ARCHITECTU(URAL) FRMG. FRAMING R. RADIUS AWS AMERICAN WELDING GA. GALVANIZED REINF. REINFORCEMENT	
PLACEMENT OF CONCRETE. GENERAL CONTRACTOR AND CONCRETE SUB—CONTRACTOR SHALL REVIEW AND FAMILIARIZE THEMSELVES WITH THE SOILS REPORT. 1.	Sd1 = NULL e) SIESMIC DESIGN CATEGORY D	b.) INSTALLATION AND TESTING OF PILE FOUNDATIONS PER CBC 1705.7	SLABS. 11. INSPECT FORMWORK FOR SHAPE, LOCATION AND	9. SEE MECHANICAL, ELECTRICAL, AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS.	SOCIETY G.L.B. GLUE LAM BEAM REQ'D REQUIRED BD. BOARD GRD. GRADE RM. ROOM BF. BRACED FRAME H.D. HOLDOWN RTU ROOF TOP UNIT	
VERIFY BUILDING ORIENTATION & PLACEMENT ON THE SITE WITH THE APPROVED PROJECT SITE PLAN SUPERSEDES NORTH ARROW SHOWN ON THE STRUCTURAL PLANS.	f) SEISMIC-FORCE-RESISTING SYSTEM, R Ω O Cd N/A	VERIFICATION AND INSPECTION TASK USE CONTINUOUS DURING TASK LISTED USE CONTINUOUS DURING TASK LISTED USE CONTINUOUS DURING TASK LISTED	DIMENSIONS OF THE CONCRETE X ACI 318: 6.1.1 MEMBER BEING FORMED. YES N/A	10. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS.	BLK. BLOCK HGR. HANGER SCHED. SCHEDULE BLKG. BLOCKING HDR. HEADER SHTG. SHEATHING BOT. BOTTOM HT. HEIGHT SHT. SHEET	
A LETTER FROM SOIL ENGINEER SHALL BE PROVIDED CONFIRMING THAT THE FOUNDATIONS PLAN, GRADING PLAN, AND SPECIFICATIONS HAVE BEEN REVIEWED AND THAT IT HAS BEEN DETERMINED THAT THE RECOMMENDATIONS IN THE SOILS	g) SEISMIC RESPONSE COEFFICIENT, Cs = N/A 7. FROST LINE DEPTH = 0'-0"	1. VERIFY PILE MATERIALS, SIZES AND LENGTHS X	4.D. MASONRY CONSTRUCTION PER CBC 1705.3	11. SEE PLUMBING & ARCHITECTURAL PLANS FOR REQUIRED SLAB WORK FOR FLOOR DRAINS.	BM. BEAM HORIZ. HORIZONTAL SIM. SIMILAR B.N. BOUNDARY NAILING HSB HIGH STRENGTH SLV SHORT LEG C CHANNEL BOLT VERTICAL	
REPORT. ARE PROPERLY INCORPORATION INTO THE PLANS. CONTINUOUS AND PAD FOOTINGS SHOULD HAVE A MINIMUM EMBEDMENT DEPTH AS	8. BY ISSUING A BUILDING PERMIT, THE GOVERNING BUILDING DEPARTMENT FOR THIS PROJECT IS APPROVING ALL LOADS AND LOAD FACTORS LISTED IN ITEMS 4B, 4C, 5,	2. VERIFY DETERMINE CAPACITIES OF TEST PILES AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED X 3. ORSERVE DRIVING OPERATIONS AND MAINTAIN	FREQUENCY OF REFERENCE FOR INSPECTION CRITERIA	12. THE DESIGN, FABRICATION AND CONSTRUCTION SHALL COMPLY WITH ALL ACCEPTED LOCAL GOVERNING CODES OF THE PARTICULAR AREA UNDER CONSTRUCTION.	CLG. CEILING H.S. HIGH SIDE S.M.S. SHEET METAL CLR. CLEAR HSS HALLOW SQUARE SCREWS COL. COLUMN SECTION SPEC. SPECIFICATION	
SPECIFIED IN THE FOOTING SCHEDULE ("T") OR NOTED IN THE PLANS BELOW ROUGH PAD GRADE OR ADJACENT EXTERIOR GRADE, WHICHEVER IS LOWER. THE ENGINEER MUST BE NOTIFIED IF THERE IS A DISCREPANCY BETWEEN THE SOILS	6, & 7. 9. N/A INDICATES THAT THIS ITEM IS NOT APPLICABLE TO THIS PROJECT.	3. OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PILE. 4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS CONFIDM TYPE AND CITE OF HAMMED PROOPED.	INSPECTION TASK CONTINUOUS PERIODIC TMS 402 TMS 602	13. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE, IF REQUIRED, IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.	C.M.U. CONCRETE MASONRY IN. INCH STGR. STAGGER UNIT I.D. INSIDE DIAMETER STL. STEEL C.J. CONSTRUCTION INT. INTERIOR STIFF. STIFFNER	
REPORT. REQUIREMENTS AND THE STRUCTURAL PLANS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CIVIL & ARCHITECTURAL	10. BY ISSUING A BUILDING PERMIT, THE GOVERNING BUILDING DEPARTMENT FOR THIS PROJECT IS INDICATING AND APPROVING THAT THERE IS NO OVERALL STRUCTURAL BUILDING UPGRADE (i.e. SEISMIC AND/OR OTHER LOADING, OCCUPANCY/RISK CATEGORY CHANGES FTO) PROJUBED BASED ON THE PROPOSED TENANT IMPROVEMENT	CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS	1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A PROPORTIONS OF ART. 2.1.	CONSTRUCTION SITE. 14. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER FIELD REPRESENTATIVES DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED	JOINT JST. JOIST STRUCT. STRUCTURAL CONC. CONCRETE K or KIPS 1000lbs SQ. SQUARE CONSTR. CONSTRUCTION LAM. LAMINATED SYM. SYMMETRICAL CONT. CONTINUOUS LB or LBS. POUNDS TF TOP FLANGE	
PLANS, WITH RESPECT TO GRADE, WITH THE FOUNDATION PLAN. THIS INCLUDES, BUT IS NOT LIMITED TO, COORDINATING ALL REQUIRED STEP FOOTING LOCATIONS BASED ON THE GUIDE LINES IN THE STEPPED CONCRETE FOOTING DETAIL BETWEEN THE	CATEGORY CHANGES, ETC.) REQUIRED BASED ON THE PROPOSED TENANT IMPROVEMENT CONSTRUCTION DOCUMENTS AS A RESULT OF LOCAL, SATE, AND/OR BUILDING CODE REQUIREMENTS.	c.) INSTALLATION AND TESTING OF PIER FOUNDATIONS YES N/A	SITE—PREPARED MORTAR 2.6A, & 2.6C b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ART. 2.4B	INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF	CONT. CONTINUOUS LB or LBS. POUNDS TF TOP FLANGE DA DOUBLE ANGLE L.S. LOW SIDE THK. THICKNESS DEMO. DEMOLISH LT. WT. LIGHT WEIGHT U.N.O. UNLESS NOTED DET. DETAIL LLV LONG LEG VERTICAL OTHERWISE	
REQUIRED FINAL GRADING / CIVIL PLANS & ARCHITECTURAL PLANS AND FOOTING/FOUNDATION LAYOUT. ANY DISCREPANCIES MUST BE BROUGHT TO THE ENGINEERS ATTENTION BEFORE ANY CONSTRUCTION BEGINS.	6 DESIGN CRITERIA	PER CBC 1705.8	ACHORAGE c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS,	ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.	DIAG. DIAGONAL M.B. MACHINE BOLT VERT. VERTICAL DIA. (Ø) DIAMETER MAS MASONRY V.I.F. VERIFY IN FIELD DIM. DIMENSIONS MAX. MAXIMUM W. WIDTH	
THE EXTERIOR FLATWORK SHOULD BE POURED SEPARATELY IN ORDER TO ACT INDEPENDENTLY OF THE WALLS AND FOUNDATION SYSTEM. SEE CIVIL / ARCH. PLANS FOR EXTERIOR FLATWORK INFO.	1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY. THE FOLLOWING REQUIREMENTS ARE NOT INTENDED TO BE A COMPLETE LIST, BUT ARE ADDITIONAL	1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER. X	ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES ARI. 3.4 & 3.6A	15. ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.	DBL. DOUBLE MF. MOMENT FRAME WT. WEIGHT DWG. DRAWING MTL METAL W.W.M. WELDED WIRE EA. EACH MIN. MINIMUM MESH	
THE GEOTECHINICAL ENGINEER SHALL SUBMIT A WRITTEN STATEMENT WITH A COPY DIRECTLY TO THE STRUCTURAL ENGINEER AT THE COMPLETION OF THE PART OF	SAFETY REQUIREMENTS FOR THE CONTRACTOR. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE FOLLOWING ITEMS:	2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM PIER DIAMETERS, BELL DIAMETER (IF APPLICABLE). LENGTHS. EMBEDMENT INTO BEDROCK X	d. PRESTRESSING TECHNIQUE X ART 3.6B ART 3.6B	16. THESE DRAWINGS SHALL BE CONSIDERED SUBSTANTIALLY COMPLETE. HOWEVER, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE ALL LABOR AND	E.N. EDGE NAILING N.T.S. NOT TO SCALE W.F. WIDE FLANGE NO. or # NUMBER W/ WITH WS WOOD SCREW	
THE PROJECT SUMMARIZING THE TEST RESULTS / ITEMS MONITORED WITH THE SPECIFIC REQUIREMENTS. NOTE:	2. THE STRUCTURE SHOWN IN THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETE FORM,. THE DESIGN ADEQUACY AND SAFETY OR ERECTION BRACING,	(IF APPLICABLE) AND ADEQUATE END BEARING STRATA CAPACITY. YES N/A	MORTAR FOR AAC MASONRY X ART. C.1	MATERIALS NECESSARY TO RENDER THE WORK COMPLETE, AS IS THE INTENT OF THESE DRAWINGS, EITHER SHOWN OR INFERRED HEREIN, THROUGH PROPER ESTABLISHED CONSTRUCTION PRACTICES.	2 ABBREVIATIONS	
1. IF NO SOILS REPORT HAS BEEN PROVIDED BY THE OWNER OR TENANT AUTHORIZING THE CURRENT CONSTRUCTION AS INDICATED BY NOTE 1, THE OWNER OR TENANT AUTHORIZING THE CURRENT CONSTRUCTION BY PROCEEDING	SHORING TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE	4.B. STEEL CONSTRUCTION PER CBC 1705.2	f. SAMPLE PANEL CONSTRUCTION — X ART. 1.6D 2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:	17. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK AND THE COORDINATION OF ALL TRADES AND GOVERNING AGENCIES, AND SHALL PROVIDE ALL MATERIAL AND LABOR SHOWN OR INFERRED ON THESE PLANS.	GN003	
WITH CONSTRUCTION, IS PROCEEDING AT THEIR OWN RISK AND THIS ENGINEER ASSUMES NO RESPONSIBILITY FOR THE POSSIBLE MOVEMENT OF THE SOILS SUPPORTING THE BUILDING FOUNDATION. IF NO SOILS REPORT HAS BEEN	APPLICATION OF ALL WALLS AND ROOF & FLOOR SHEATHING. HE SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS.	INSPECTION CONTINUOUS PERIODIC STANDARD 1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS	a. GROUT SPACE — X ART. 3.2D ART. 3.2F	18. ALL MATERIAL AND WORK PERFORMED SHALL CONFORM WITH THE REQUIREMENTS OF THE BUILDING CODE OR OTHER GOVERNING CODES AND BUILDING ORDINANCES. ALL REFERENCE TO THE BUILDING CODE SHALL BE THE LATEST ADOPTED EDITION.	-NATIVE SOIL -MASONRY -ENGINEERED FILL	OR
PROVIDED IGNORE THE SOILS REPORT REFERENCE IN NOTES 3,6,8,10 & 11.	3. AN ERECTION PLAN IS REQUIRED FOR MOST CONSTRUCTION PHASES. CONTRACTOR SHALL DETERMINE ALL CONSTRUCTION PHASES WHICH REQUIRE ERECTION PLANS ACCORDING TO ALL APPLICABLE SAFETY REGULATIONS. A CERTIFIED COPY OF SUCH	AND WASHERS: a. MATERIAL INDENTIFICATION MARKINGS TO CONFORM TO APPLICABLE ASTM	b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES X SEC. 10.8 & ART. 2.4 ART. 3.6	19. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL	-AGGREGATE -GROUT	
POUNDATION NOTES	ERECTION PLANS SHALL REMAIN ON THE CONSTRUCTION SITE AT ALL TIMES. 4. TEMPORARY LOADING DURING CONSTRUCTION SHALL NOT OVERLOAD DESIGN VALUES. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL TRADES OF SUCH DESIGN VALUES.	ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS d. PROPORTIONS OF SITE —	SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO BRACING AND SHORING. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT OR ENGINEER SHALL NOT	-WOOD BLOCK -CONCRETE	
THESE ADDITIONAL NOTES ARE SUPPLEMENTAL TO THE "GENERAL NOTES" INDICATED AND THE PROJECT SPECIFICATIONS IF APPLICABLE. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS IF APPLICABLE.	THE USE OF ATV TYPE MATERIAL HANDLING EQUIPMENT IS PROHIBITED FROM USE ON WOOD ROOFS AND ELEVATED FLOORS.	b. MATERIAL MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS ART. 2.6B ART. 2.4 G.1.b	INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT OR ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND	-CONTINUOUS WOOD MEMBER	
STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, CIVIL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE	5. THE CONTRACTOR SHALL PROVIDE ATTACHED VISIBLE PLATES INDICATING THE DESIGN LOADS IN ALL SPACES AS REQUIRED BY APPLICABLE SAFETY REGULATIONS. THE OCCUPANT OF THE BUILDING SHALL BE RESPONSIBLE FOR KEEPING THE ACTUAL LOAD	2. INSPECTION OF HIGH-STRENGTH BOLTING:	3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION: a. MATERIALS AND PROCEDURES WITH THE APPROVED X ART. 1.5	DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT OR ENGINEER, WHETHER OF MATERIAL OR WORK. AND FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING	- CONTINUOUS WOOD MEMBER	
FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.	BELOW THE ALLOWABLE LIMITS. 6. CONTRACTOR SHALL DETERMINE IF A CALOSHA PERMIT IS REQUIRED, IF SO, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN SUCH PERMIT.	a. BEARING — TYPE CONNECTIONS. X AISC 360, SECTION M2.5 b. SLIP — CRITICAL XX XX AISC 760, SECTION M3.5	SUBMITTALS b. PLACEMENT OF MASONRY	CONFORMANCE WITH CONTRACT DOCUMENTS, DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.	DETAIL REF. DETAIL	M M M M M
NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.	7. THE LACK OF A HIGH GUARDRAIL AT BUILDING PARAPETS FLOOR OPENING & ROOF OPENINGS DOES NOT MEET CURRENT LABOR CODE FOR AN OCCUPIED SPACE. THIS ENGINEER RECOMMENDS THE USE OF GUARDRAILS AT STATED LOCATIONS. IF	D. SLIF - CRITICAL X X AISC 360, SECTION M2.5 CONNECTIONS. X X AISC 360, SECTION M2.5 3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:	CONSTRUCTION c. SIZE AND LOCATION OF STRUCTURAL MEMEBERS X ART. 3.3F	20. IT SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY FOR THE SUPERVISION OF THE WORK OR POSSIBLE OMISSIONS SHOWN OR INFERRED ON THESE PLANS. 21. CONNECTIONS OF ALL ITEMS SUPPORTED BY THE STRUCTURAL ARE THE	SHEET REF. DETAIL CUT	
OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.	GUARDRAILS ARE NOT USED THE OWNERS SHALL ACCEPT FULL RESPONSIBILITY. IN ADDITION, THE CONTRACTOR SHALL PROVIDE CLEARLY LEGIBLE SIGNS AT THESE LOCATIONS STATING "CAUTION: NO GUARDRAIL".	a. IDENTIFICATION MARKING TO CONFORM TO AWS YES NO N/A	d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF	RESPONSIBILITY OF THE DISCIPLINES WHO ARE MAKING THESE ATTACHMENTS. THESE ATTACHMENTS SHALL BE DESIGNED TO RESIST ALL GRAVITY, WIND, SEISMIC, THERMAL LOADS, ETC SPRINKLER PIPING SHALL BE SUPPORTED AND BRACED PER NFPA-13	REFERENCE	
THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE	8. ALL TEMPORARY FLOOR AND ROOF OPENINGS LACKING GUARDRAILS SHALL BE ADEQUATELY COVERED AND DESIGNED TO RESIST CONSTRUCTION TRAFFIC LOADS.	SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. ASTM A6 OR ASTM A568	MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION X (e), 6.2.1, & 6.3.1	SUSPENDED CEILING SYSTEMS OF ACOUSTICAL TILE OR LAY—IN PANELS SHALL BE SUPPORTED AND BRACED PER CBC 1615.10.13 22. CONCRETE SLAB—ON—GRADE HAS NOT BEEN DESIGNED FOR CONSTRUCTION LOADS OR	SECTION CUT REFERENCE	
IMPOSED. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE	9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN	b. MANUFACTURES CERTIFIED —— ASTM A6 OR ASTM A568 4. MATERIAL VERIFICATION OF WELD	e. WELDING OF REINFORCEMENT X —— SEC. 6.1.6.1.2 f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY	SPECIFIC OCCUPANT SERVICE LOADS BY THIS ENGINEER. 23. VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT HAVE NOT BEEN CONSIDERED BY	XX — FOOTING & COLUMN SCHEDULE ITEM	CT SED ER (
CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND / OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTORS CONSTRUCTION METHODS AND / OR SEQUENCE.	CONJUNCTION WITH THE EXECUTION OF THIS WORK. 10. MATERIAL USED IN THIS DESIGN MAY BE HAZARDOUS TO ONES HEALTH. THE CONTRACTOR AND OWNER SHALL ACCEPT ALL RESPONSIBILITY AND SHALL POST SUCH	a. INDENTIFICATION MARKING TO CONFORM TO AWS	DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER ART. 1.8C ART. 1.8D	THIS ENGINEER. 24. CONSTRUCTION AND MATERIAL SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH ALL THE REQUIREMENTS OF ALL LEGALLY CONSTITUTED PUBLIC	SHEARWALL SCHEDULE ITEM	D O O
CONTRACTOR'S CONSTRUCTION AND / OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL & MOISTURE CHANGES THAT WILL RESULT IN MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.	WARNING DURING CONSTRUCTION. 11. THE CONTRACTOR, DURING CONSTRUCTION, AND THE OWNER, DURING OCCUPANCY,	CONFORM 10 AWS SPECICIFCATION IN THE APPROVED COINSTRUCTION DOCUMENTS. AISC 360, SECTION A3.5	(TEMPERATURE ABOVE 90°F (32.2°C)) g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE ART. 3.6B	AUTHORITIES HAVING JURISDICTION, INCLUDING ALL COUNTY AND LOCAL ORDINANCES, AND THE SAFETY ORDERS OF THE STATE INDUSTRIAL ACCIDENT COMMISSION, OSHA. 25. ANY REFERENCE TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS	+x'-x" ELEVATION (SECTIONS	
THE CONTRACTOR SHALL INFORM THE ENGINEER OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE	SHALL ASSUME ALL RESPONSIBILITY FOR PROPER ROOF MAINTENANCE TO INSURE PROPER ROOF DRAINAGE. 12. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION INCLUDING BUILDING	b. MANUFACTURES CERTIFIED OF	OF PRESTRESSING FORCE h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN ART. 3.5 ART. 3.6C	SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUBCONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.		PR AT
RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE ENGINEER OF RECORD, REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER OF RECORD OF SUCH	ERECTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL ERECTION LAWS AND GUIDELINES. IF THE CONTRACTOR FEELS THAT THE ERECTION OF THE STRUCTURE REPRESENTED IN THESE PLANS WILL NOT MEET THOSE LAWS &	5. INSPECTION OF WELDING:	BONDED TENDONS IS IN COMPLIANCE i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF X —— ART. 3.3 B.9 & 3.3	26. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE SUPERVISION OF THE WORK OF THE PROPER EXECUTION OF SAME.		STATU
DEVIATION AT THE TIME OF SUBMISSION, AND THE ENGINEER OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR MUST ENSURE THAT MANUFACTURED (ENGINEERED BY OTHERS)	GUIDELINES. THE CONTRACTOR MUST NOTIFY THE ENGINEER BEFORE CONSTRUCTION AND FABRICATION BEGINS.	a. STRUCTURAL STEEL: 1. COMPLETE AND PARTIAL PENETRATION GROOVE X AWS D1.1	THIN-BED MORTAR JOINTS F.1.b ART. 1.4 B.2.a.3, 1.4	27. CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO BEGINNING OF CONSTRUCTION. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH WORK. COORDINATE STRUCTURAL DIMENSIONS WITH ARCHITECTURAL FLOOR	XINDICATES EXISTING BUILDING GRID LINE.	Current Relea
ROOF & FLOOR FRAMING IS DESIGNED TO RESIST UPLIFT LOADS DURING & AFTER CONSTRUCTION. TING CONSTRUCTION NOTES:	7 ADDITIONAL SAFETY NOTES	PENETRATION GROOVE X AWS D1.1 2. MULTIPASS FILLET WELDS. X — AWS D1.1	4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS X B.2.c.3, 1.4 B.2.c.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4	PLANS, ELEVATIONS, SECTIONS, DETAILS ETC. 28. THE STRUCTURAL SYSTEMS HAVE BEEN DESIGNED TO CARRY THE SUPERIMPOSED LIVE	→ MOMENT CONNECTION	06-28-2 Planning Su
WORK SHOWN IS NEW UNLESS INDICATED AS EXISTING. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING JOB CONDITIONS, REVIEW ALL	1. SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING ITEMS. SUBMIT AT LEAST (1)	3. SINGLE PASS FILLET X — AWS D1.1	4.E. WOOD CONSTRUCTION PER CBC 1705.5.1	LOADS AS PRESCRIBED BY THE BUILDING CODE AND IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES, WITH NO SPECIAL PROVISIONS FOR CARRYING CONCENTRATED LOADS FROM STORAGE AND HANDLING OF CONSTRUCTION MATERIALS OR FROM OPERATION OF CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL	INDICATES VERTICAL STEP IN FRAMING PLAN	Diam Ot 1.2
DRAWINGS AND VERIFY DIMENSIONS, ELEVATION, AND MEMBER SIZES PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE	ELECTRONIC SET (FULL SIZE PDF) FOR ENGINEERS RECORDS. (1) ELECTRONIC SET (FULL SIZE PDF) OF CALCULATIONS (IF APPLICABLE) FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. THE ELECTRONIC SETS SHALL BE LEGIBLE FOR THE REVIEW,	4. SINGLE PASS FILLET X AWS D1.1 □	a.) HIGH—LOAD DIAPHRAGM: INSPECT WOOD STRUCTURAL PANEL SHEATHING TO ASCERTAIN WHETHER IT IS THE GRADE AND THICKNESS SHOWN ON THE APPROVED BUILDING PLANS AND VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINTING PANEL EDGES. THE NAIL OR STAPLE DIAMETER AND	SCAFFOLDING, BRACING, AND SHORING SYSTEMS AS REQUIRED FOR INSTALLATION, STABILITY, AND SAFETY OF NEW WORK AND PROVIDE PROTECTION AS REQUIRED FOR THE SAFETY OF PEDESTRIANS AND JOB SITE PERSONNEL. AT ALL TIMES. THE	3 SYMBOLS	Plan Check S
PROCEEDING WITH THE WORK. THE REMOVAL, CUTTING DRILLING, ETC. OF EXISTING CONSTRUCTION SHALL BE PERFORMED WITH GREAT CARE IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL	IF ELECTRONIC SET IS NOT LEGIBLE IT MAY DELAY THE REVIEW WITHIN THE ALLOTTED TIME BELOW. -1.g. CONCRETE REINFORGING BARS-	5. FLOOR AND ROOF DECK X AWS D1.3	MEMBERS AT ADJOINTING PANEL EDGES, THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THAT THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH THE APPROVED BUILDING PLANS.	CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY. AND EXISTING CONSTRUCTION AND MATERIALS FROM ADVERSE CONDITIONS AND THE CONTRACTOR	GN002	REVISIO
PERFORMED WITH GREAT CARE IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL NTEGRITY OF THE BUILDING STRUCTURAL SYSTEM. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL FEATURES NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ENGINEER OF RECORD SHALL BE	1.b. CONGRETE MIX DESIGN 1.c. STRUCTURAL STEEL 1.d. CROUT MIX DESIGN 1. MASONDY DESIGN PARS	b. REINFORCING STEEL: 1. VERIFICATION OF WELDABILITY OF AWS D1.4	4.F. STRUCTURAL WOOD PER CBC 1705.11.1 & 1705.12.2	SHALL PROJECT NEW DAMAGE. 29. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DESIGN BUILD CONTRACTORS OF THE BUILDINGS HEATING. COOLING, & VENTILATION SYSTEM TO ENSURE THAT THE	THIS STRUCTURE MAY REQUIRE "STRUCTURAL OBSERVATION" IF REQUIRED BY GENERAL NOTE #5 "SPECIAL INSPECTIONS NOTES", ITEM #6. THE ARCHITECT OR ENGINEER OF RECORD RESPONSIBLE FOR THE STRUCTURAL	
MMEDIATELY NOTIFIED AND PRIOR WRITTEN APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OR MODIFICATION OF MEMBERS.	1.f. OLUED LAMINATED TIMBER MEMBERS 1.g. ROOF & FLOOR TRUSSES DEFERRED SUBMITTAL 1.h. STEEL STAIR DRAWINGS THAT ARE BY OTHERS	WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706. X AWS D1.4 ACI 318:3.5.2	OPERATIONS OF ELEMENTS OF THE (WIND/SEISMIC)—FORCE—RESISTING SYSTEM. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE	STRUCTURE DETAILS IN THESE PLANS WILL NOT BE EXPOSED TO HARMFUL (TO THE STRUCTURE AND/OR ITS OCCUPANTS) ACCUMULATION OF MOISTURE & OTHER	DESIGN SHALL PERFORM THE STRUCTURAL OBSERVATION. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING. IN ADDITION, FINAL WRITTEN DOCUMENTATION SHALL BE ISSUED STATING THAT THE NECESSARY SITE VISITS HAVE BEEN MADE AND	
THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO EXISTING FRAMING CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP. CONTACT THE ENGINEER OF RECORD TO VERIFY THE PROPOSED REPAIR SOLUTION.	-1.i. HELICAL PIERS DEFERRED SUBMITTAL 1.j. TILT UP PANEL "LIFT / ERECTION REINFORCING STEEL" DRAWINGS & CALCULATIONS	STEEL—RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOVENT FRANCS AND	(WIND/SEISMIC)—FORCE—RESISITNG SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD—DOWNS. 4.G. EXPANSION/ADHESIVE ANCHORS IN CONCRETE OR MASONRY □ □ ■	HARMFUL SUBSTANCES THAT COULD LEAD TO HARMFUL/DESTRUCTIVE MOLD, MILDEW, CORROSION, ETC. BUILD UP ON STRUCTURAL MEMBERS. 30. IN THESE PLANS THERE IS NO DISTINCTION BETWEEN POSTS & COLUMNS BASED ON	IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.	
THE CONTRACTOR MUST NOTIFY THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION OR FABRICATION REGARDING ANY EXISTING MECHANICAL UNITS OR OTHER HEAVY ITEMS (200+ LBS) ON EXISTING ROOF/FLOOR FRAMING NOT SHOWN IN THESE	-1.K. CURTAIN WALL CALCULATIONS & PLANS 2. ALLOW TEN (10) WORKING DAYS FOR SHOP DRAWINGS REVIEW COMMENCING THE NEXT WORKING DAY AFTER RECEIPT. PLEASE PLAN YOUR SCHEDULE ACCORDINGLY.	BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS	(IF THEY ARE REQUIRED BY THESE PLANS OR REQUIRED DURING CONSTRUCTION) 5. APPROVED FABRICATORS: (MUST SUBMIT CERTIFICATE OF COMPLIANCE TO THE BUILDING	OSHA DEFINITIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE CLASSIFICATION OF EACH "VERTICAL" MEMBER AND FOLLOWING THE REQUIRED OSHA ERECTION GUIDELINES. SEE NOTE 13 ON ADDITIONAL SAFETY NOTES FOR MORE INFO.	3. AT A MINIMUM, STRUCTURAL OBSERVATIONS ARE REQUIRED AT THE THE FOLLOWING STAGES OF CONSTRUCTION:3.a. PRIOR TO ALL CONCRETE AND MASONRY GROUT PLACEMENT OF FOOTINGS AND	
PLANS BUT LOCATED ON STRUCTURAL MEMBERS THAT ARE BEING MODIFIED OR RECEIVING NEW LOADS FROM THESE PLANS. DLITION SHORING NOTES::	3. NO PART OF THE CONTRACT DOCUMENTS ARE TO BE REPRODUCED AS PART OF THE SHOP DRAWINGS. SHOP DRAWINGS CONTAINING DETAILS, SECTIONS OR PLANS PHOTO COPIED FROM THE CONTRACT DOCUMENTS WILL BE REJECTED.	AND SHEAR REINFORCEMENT. 3. SHEAR REINFORCEMENT X — AWS D1.4 ACI 318:3.5.2	OFFICAL PER CBC 1704.2.5.2 FOR ALL OFFSITE FABRICATION SUCH AS STRUCTURAL STEEL, GLU-LAMS, PRECAST CONCRETE, ETC	31. DUTY OF COOPERATION: ISSUANCE OF THESE STRUCTURAL DOCUMENTS (DRAWING AND SPECIFICATIONS) CONTEMPLATES FURTHER COOPERATION AMONG ALL PARTIES	CMU WALLS POURS & GROUTING. WHEN ALL REINFORCING IS IN PLACE. 3.b. WHEN 75% OF THE ROUGH FRAMING IS IN PLACE.	
THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF ALL DEMOLITION WORK AND FOR PROVIDING ALL NECESSARY TEMPORARY SHORING,	4. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THIS ENGINEER. THE CONTRACTOR SHALL; REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES. AND OPERATIONS OF	4. OTHER REINFORCEMENT — X AWS D1.4 ACI 318:3.5.2	WHEN REQUIRED BY THE BUILDING OFFICAL, THE OWNER SHALL EMPLOY THE ENGINEER OF RECORD (EOR) BRAD YOUNG AND ASSOCIATES, INC. TO PERFORM STRUCTURAL	INVOLVED. DESIGN AND CONSTRUCTION ARE COMPLEX, AND ALTHOUGH THE DESIGN SERVICES HAVE BEEN PERFORMED WITH DUE CARE AND DILIGENCE, PERFECTION CANNOT BE GUARANTEED. COMMUNICATION IS NECESSARY AND ANY STRUCTURAL DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER WHOSE	3.c. WHEN 100% OF THE ROOF FRAMING AND CANOPY FRAMING IS IN PLACE. 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER AT LEAST 48 HOURS IN ADVANCE OF THESE STRUCTURAL OBSERVATIONS.	
BRACING AND PROTECTION AS NECESSARY FOR SAFETY, STABILITY AND PROTECTION OF ALL EXISTING ELEMENTS AND STRUCTURE TO REMAIN. TEMPORARY SHORING AND BRACING SHALL BE ADEQUATE TO RESIST ALL APPLIED LOADS INCLUDING DEAD LOAD, LIVE LOADS, SNOW LOADS AND CONSTRUCTION LOADS, TO PROVIDE STABILITY.	CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR; AND APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE CONTRACTOR IS FULLY RESPONSIBLE	6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: TO DETAILS SLICH AS REACING. YES NO N/A	OBSERVATION AS DEFINED IN CBC 1704.6, AND AT THE INSTANCES LISTED BELOW (A). PLEASE PROVIDE 2 WEEKS NOTICE IN WRITING PRIOR TO NEEDING ALL INSPECTIONS. 6.a. PLEASE REFER TO GENERAL NOTE "STRUCTURAL OBSERVATION" FOR MORE	DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER WHOSE INTERPRETATION SHALL BE FINAL DISCREPANCIES NOT BROUGHT TO THE ENGINEER'S ATTENTION DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID IN THE MORE COSTLY MANNER.	5. STRUCTURAL OBSERVATION DO NOT CONSTITUTE SPECIAL INSPECTIONS OF ANY TYPE.	IDENTIFIC
AND TO PROVIDE FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL ANY REQUIRED MODIFICATIONS TO THE STRUCTURE ARE COMPLETED.	FOR ANY CHANGES OR DELAYS CAUSED BY PREMATURELY SUBMITTING SHOP DRAWINGS. THIS ENGINEERS SHOP DRAWINGS REVIEW AND STAMP DOES NOT ALLEVIATE THE CONTRACTORS RESPONSIBILITY TO REVIEW THE SAME SHOP DRAWINGS.	a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS.	INFORMATION REGARDING INSPECTION AT VARIOUS STAGES OF CONSTRUCTION.	A GENERAL NOTES	3B STRUCTURAL OBSERVATION GN028	Scale
	THIS ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES AN INTENTIONAL VARIATION UNLESS CONTRACTOR ADVISES THIS ENGINEER OTHERWISE IN WRITING WHICH IS THEN ACKNOWLEDGED BY THIS ENGINEER IN	c. APPLICATION OF JOINT		GN001		Project Coordi
MISCELLANEOUS		DETAILS AT EACH — — —			-	
MISCELLANEOUS GN008	WRITING.	5 SPECIAL INSPECTION NOTES				BYA Project No.

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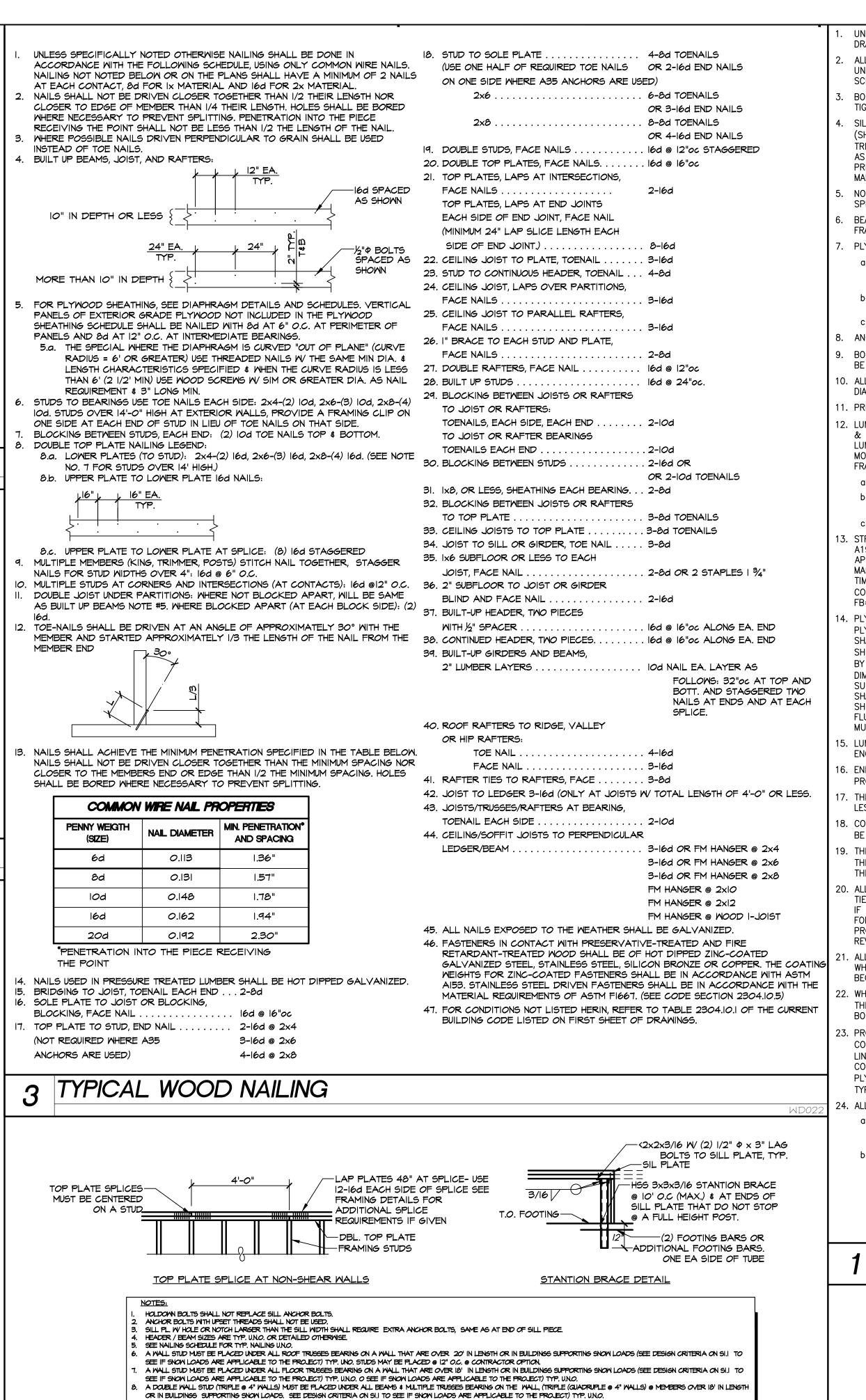
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SEE NOTE 15 FOR

MORE INFO ON

SILL BOLTS

STEEL COIL STRAP NAILING AND SPLICE



PLYWOOD NOTES: FRAMING IS COVERED UP. GRADES FOR FRAMING MEMBERS SHALL BE AS FOLLOWS: a. HORIZONTAL FRAMING MEMBERS (JOIST, RAFTERS): D.F. #2 U.N.O. b. VERTICAL FRAMING MEMBERS (POST, 4X AND LARGER): D.F. #1 (STUDS 2X AND 3X): D.F. #2 c. PLANKING, 2" OR MORE IN DEPTH: D.F. #2 . STRUCTURAL GLUED-LAMINATED TIMBER SHALL CONFORM TO ANSI / AITC STANDARD A190.1 AND ASTM D3737. THE FABRICATION SHALL BE PERFORMED IN AN APPROVED FABRICATIONS SHOP IN ACCORDANCE WITH CBC 1701 DESIGN AND MANUFACTURE OF STRUCTURAL GLUED— LAMINATED TIMBER. GLUED LAMINATED TIMBER SHALL HAVE THE FOLLOWING MATERIAL PROPERTIES: SIMPLE SPANS: COMBINATION 24F-V4 DF/DF, CANTILEVERED SPANS: COMBINATION 24F-V8 DF/ DF, FB=2400, PSI FV=165 PSI, E=1,800,00 PSI, FC=650 PSI, U.N.O. PLYWOOD SHALL CONFORM TO CBC STANDARDS CONSTRUCTION AND INDUSTRIAL PLYWOOD (5 PLY MIN.) AND WITH DOC PS 1-09 OR DOC PS 2-10. PLYWOOD SHALL BE MANUFACTURED USING EXTERIOR GLUE. PLYWOOD DIAPHRAGMS AND SHEAR WALLS SHALL BE CONSTRUCTED WITH PLYWOOD SHEETS NOT LESS THAN 4 BY 8' FXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE MINIMUM SHEE DIMENSION SHALL BE 24" UNLESS ALL EDGES OF THE UNDERSIZED SHEETS ARE SUPPORTED BY FRAMING MEMBERS OR BLOCKING. FRAMING MEMBERS OR BLOCKING SHALL BE PROVIDED AT THE EDGES OF ALL SHEETS IN SHEAR WALLS. DIAPHRAGM SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING. SPAN RATING MUST MEET OF EXCEED SUPPORT SPACING FOR THE GIVEN APPLICATION. 5. LUMBER SHALL NOT BE CUT OR NOTCHED UNLESS APPROVED, IN WRITING, BY THE ENGINEER OF RECORD. 6. ENDS OF WOOD GIRDERS ENTERING MASONRY OR CONCRETE WALLS SHALL BE PROVIDED WITH A 1/2" AIR SPACE ON TOPS SIDES AND ENDS. . THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN NAILING SCHEDULE ON THIS SHEET. 18. COLUMNS: SEE SPECIFICATIONS FOR GRADE REQUIRED. EXPOSED COLUMNS SHALL BE SET PLUMB WITHIN $\pm 1/8$ " 19. THE CONTRACTOR SHALL USE CONVENTIONAL FRAMING TECHNIQUES WHEN FRAMING THIS STRUCTURE. WHEN THE DETAILS OR PLANS DON'T SHOW OTHERWISE, CONTACT THE ENGINEER WITH ANY FRAMING QUESTIONS BEFORE BEGINNING CONSTRUCTION. 20. ALL METAL CONNECTORS IN THESE PLANS ARE MANUFACTURED BY SIMPSON STRONG TIE. THE CONTRACTOR MAY USE A SIMILAR PRODUCT BY A DIFFERENT MANUFACTURE IF THE STRUCTURAL VALUES FOR THAT PRODUCT ARE EQUAL TO OR GREATER THAN FOR THE PRODUCT SPECIFIED. THE CONTRACTOR MUST PROVIDE DOCUMENTION THAT PROVIDES A SIDE BY SIDE COMPARISON OF THE TWO PRODUCTS FOR A GENERAL REVIEW FROM THE ENGINEER OF RECORD. . ALL NEW FRAMING LUMBER SHALL HAVE 19 % MAX. MOISTURE CONTENT OR LESS WHEN THE ROUGH FRAMING BEGINS AND BEFORE ANY ADDITIONAL INTERIOR FRAMING . WHEN COUNTERSINKING IS REQUIRED BY A DETAIL IN THESE PLANS. THE DEPTH OF THE COUNTERSINK CAN ONLY BE 1/4" GREATER THAN THE THICKNESS OF THE BOLT HEAD OR NUT & WASHER. 3. PROVIDE A DOUBLE ROW OF BN TO ALL FRAMING ON IDENTIFIED STRUT AND/OR COLLECTOR LINES (IE: IF PLYWOOD EDGES ARE ON A STRUT AND/OR COLLECTOR LINE THERE WILL BE 4 ROWS OF BN STAGGERED IF THE STRUT AND/OR COLLECTOR IS AT THE EDGE OF A DIAPHRAGM OR IN THE MIDDLE OF $\,$ A SHEET OF PLYWOOD (NOT @ EDGE OF PLYWOOD) THERE WILL BE 2 ROWS ON BN STAGGERED 4. ALL LAG SCREWS SHALL HAVE LEAD HOLES AS FOLLOWS a. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK. b. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60% TO 75% OF THE SHANK DIAMETER IN THE WOOD AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS. THE THREADED PORTION OF THE LAG SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH NOT BY DRIVING WITH A HAMMER. SOAP OR OTHEE LUBRICANT SHALL BE USED ON THE LAG SCREWS OR IN THE LEAD HOLES TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE LAG SCREW. GENERAL WOOD NOTES

UNLESS SPECIFICALLY SHOWN OTHERWISE, BOLTS WHERE CALLED FOR ON THE DRAWINGS SHALL BE MACHINE MADE A307 TYPE. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH STANDARD STEEL WASHERS UNDER HEAD AND NUTS WHICH BEAR ON WOOD ACCORDING TO THE WASHER SCHEDULE ON THIS SHEET, UNLESS SPECIFICALLY NOTED OTHERWISE BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB. SILL PLATES OF INTERIOR WALLS THAT ARE COVERED WITH STRUCTURAL PLYWOOD (SHEAR PANEL) AND EXTERIOR WALLS, SHALL BE FOUNDATION GRADE REASSURE TREATED D.F. 2X OR 3X (SEE SHEARWALL SCHEDULE) THICK AND OF SAME WIDTH AS STUDS. ALL OTHER WALLS THE SAME EXCEPT PLATES SHALL BE 2X THICK PRESSURE TREATED FIR. PRESSURE TREATED D.F. SHALL BEAR THE AWPB QUALITY MARK AND ALL CUTS OR HOLES SHALL BE RE-TREATED PRIOR TO INSTALLATION. NO SILL PLATE PIECE SHALL END WITHIN THE LENGTH OF SHEAR PANEL UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE PLANS. BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES, PROVIDE METAL FRAMING ANCHOR AT EACH SIDE OF TOP PLATE AT INTERSECTING WALL PARTITIONS. a. IN HORIZONTAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 24" WIDE SHALL BE USED. IN VERTICAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 12" WIDE b. ANY PIECE OF PLYWOOD SPANNING ACROSS FEWER THAN 3 SUPPORTS SHALL BE BLOCKED ON ALL EDGES. c. SHEAR WALL PLYWOOD SHALL BE BLOCKED ALL EDGES. ANCHOR AND/OR SILL BOLTS WITH UPSET THREADS ARE NOT PERMITTED. BOLT HOLES IN WOOD SHALL BE OVERSIZED BY 1/32". STANDARD WASHERS SHALL BE USED UNDER ALL HEADS AND NUTS BEARING ON WOOD. . ALL BOLTS IN WOOD SHALL BE SPACED FOUR DIAMETERS MINIMUM AND SEVEN DIAMETERS MINIMUM END DISTANCE, UNLESS OTHERWISE NOTED. . PREDRILL HOLES WHERE WOOD TENDS TO SPLIT. 2. LUMBER SHALL BE GRADED IN ACCORDANCE WITH ANSI/AF&PA NDS CLASSIFICATION & DOC PS 20-05. DEFINITION AND METHODS OF GRADING FOR ALL SPECIES OF LUMBER. SOLID SAWN LUMBER SHALL BE GRADE MARKED DOUGLAS FIR 19% MOISTER CONTENT OR TESTED MOISTURE CONTENT BE 19% OR LESS BY THE TIME

559-298-3060 (OFFICE) 559-298-3267 (FAX) BRAD YOUNG & ASSOCIATES, II 3, CALIFORNIA 93612 E: (559) 323-9600 FAX: (559) 323-9633 BYA JOB # 23506

DESIGN, LLC

PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C

CLOVIS, CALIFORNIA 93611

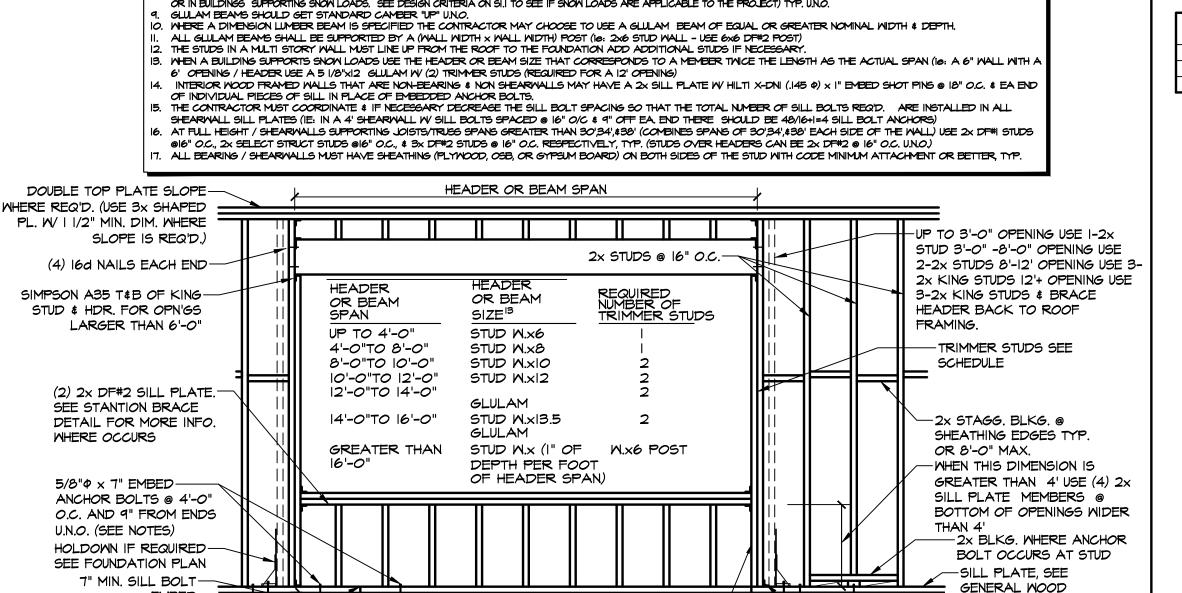
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35(TV) STATUS Current Release Date 06-28-23 Planning Submittal

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	 IDENTIFICATION

IDENTIFICATION Scale Project Coordinator BYAProject No. 23506 STANDARD NOTES AND DETAILS

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REQUIRED NUMBER OF TRIMMER STUDS CANNOT BE-

ADDITIONAL PIECE OF FRAMING MUST BE USED AT THE

FACE OF TRIMMER STUD THAT CAN BE COUNTER SUNK

TYP. WOOD WALL FRAMING PLUS TYP. HEADER AND BEAM SIZES

(ie: ADDITIONAL TRIMMER STUD OR PLYWOOD, etc.)

COUNTER SUNK FOR HOLDOWNS BOLTS. AN

NOTCHING IS ONLY ALLOWED IN NON-BEARING WALL CONDITIONS NOTCHING OR BORING IS NOT ALLOWED AT PLATE SPLICE LOCATIONS NOTCH AND BORING IN STUDS >-NOTCH (ONLY ALLOWED AT NON-BEARING WALL -NO OTHER HOLES OF NOTCHES IN SAME SECTION AS ANOTHER PENETRATION -Bearing Wall *o*r BORE HOLE IN-NON-BEARING WALL PE PLANS SEE SCHEDULE -NOTCH IN SILL AS ABOVE SCHEDULE ABOVE NOTCH (ONLY ALLOWED AT NON-BEARING WALL LOCATIONS) STUD WIDTH "W" BORING DIAM. "D"^{2,3} NOTCHING^{12,3}

NOTCH AND BORING IN TOP/SILL PLATES

CENTER OF PLATE

-STRAP PER SCHED.

AND HOLES

6'-0"0c MIN.

TOP OR SILL — PLATE

NOTCHING IS ONLY ALLOWED IN NON-BEARING WALL CONDITIONS BORING OF BEARING STUDS MAY GO UP TO NON-BEARING BORE SIZE LOCATIONS IF DOUBLE STUD IS PROVIDED OF WHAT IS REQUIRED PER PLANS AND LARGE BORING DOESNT OCCUR IN ANY ADJACENT STUD CONDITIONS NOTCHING AND BORING ALLOWANCES ARE ONLY ALLOWED TO OCCUR WITHIN TOP AND BOTTOM & OF STUD HEIGHT

NOTES & FOUNDATION

A35, TYP. PLANS

SEE PLAN FOR SIZE \$

SPACING, 48" O.C. MAX

CUT AND NOTCH

NO SCALE | W

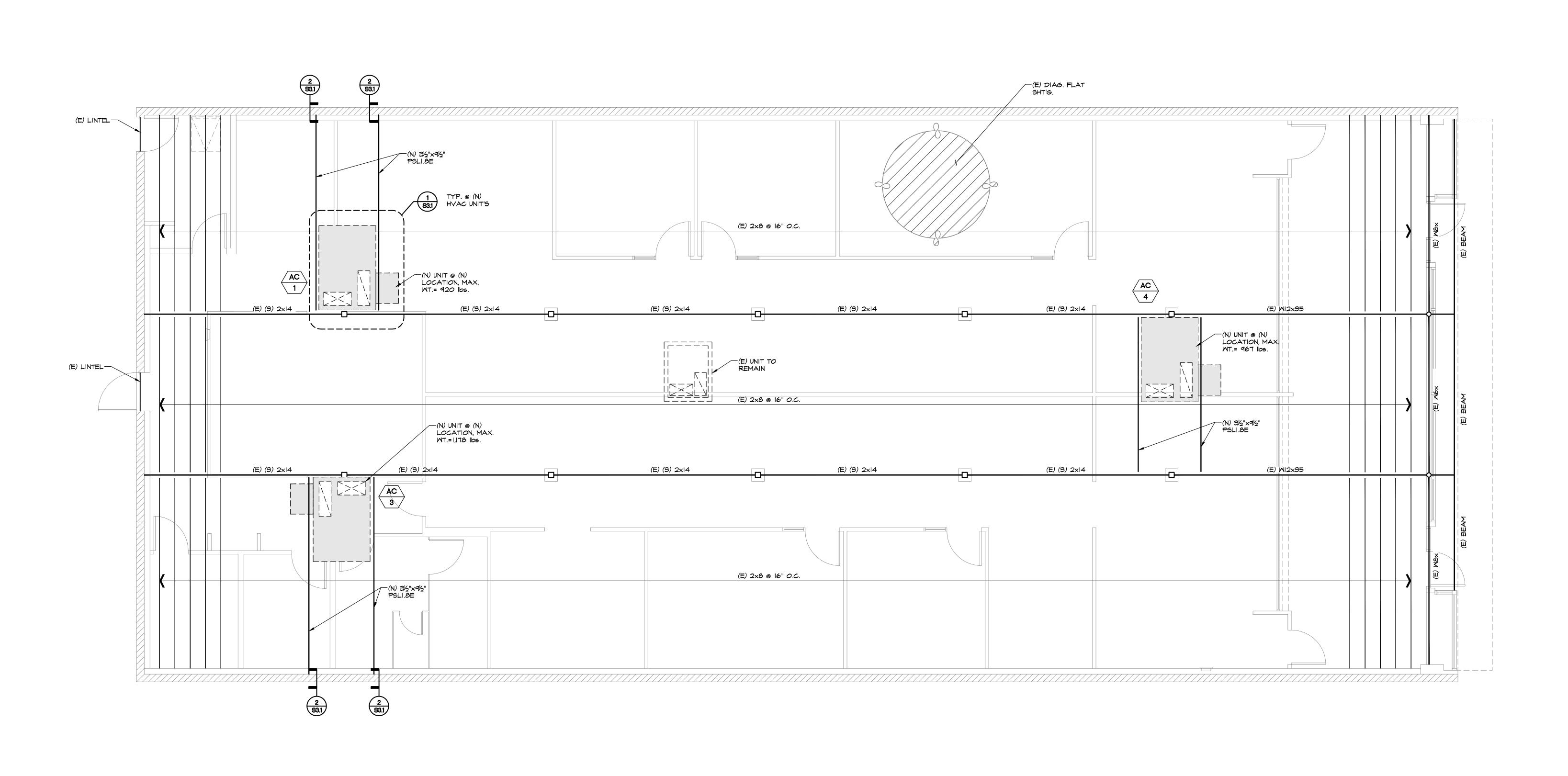
NOM. ACTUAL BEARING NON-BRING. "L" "N"

2x6 6" 5 1/2" 2"¢ 3"¢ 5 1/2" 2"

2x8 8" 7 1/4" 2 3/4"\$\phi\$ 4"\$\phi\$ 5 1/2" 3"

4" 3 1/2" | 1 1/4"¢ 2"¢ 3 1/2" | 3/8"

S1.2



I. THE CONTRACTOR MUST VERIFY ALL EXISTING STRUCTURE IN LOCATIONS THAT ARE BEING EFFECTED BY THE TENANT IMPROVEMENT AND REPORT ANY DIFFERENCE FROM THESE PLANS TO THE ENGINEER BEFORE CONSTRUCTION OR FABRICATION BEGINS.

. VERIFY NEW OPENING LOCATIONS W/ ARCHITECTURAL PLANS & REPORT ANY CONFLICTS TO THE ENGINEER BEFORE CONSTRUCTION OR FABRICATION BEGINS.

THESE PLANS AND ANALYSIS ONLY ADDRESS THE LOCALIZED AREAS

BEING EFFECTED BY THE CURRENT REMODEL AS SHOWN IN THESE PLANS.

4. SEE THE STANDARD DETAILS FOR MORE INFILL INFORMATION, TYP.

5. IF THE CONTRACTOR CANNOT VERIFY BY SIZE AND DESIGNATION ALL EXISTING FRAMING SPECIFICALLY IN LOCATIONS THAT ARE BEING EFFECTED BY THE TENANT IMPROVEMENT THE ENGINEER MUST BE

ALL OTHER ANALYSIS (IF REQUIRED) ARE TO BE PERFORMED BY

- NOTIFIED IMMEDIATELY BEFORE CONSTRUCTION OR FABRICATION BEGINS.

 THERE WAS LIMITED ACCESSIBILITY TO THIS SPACES ROOF STRUCTURE, WALL FRAMING, AND BUILDING COLUMNS DURING BYA'S SITE VISIT. SO STRUCTURE/FRAMING SIZES WERE DETERMINED TO THE BEST OF OUR ABILITY FROM WHAT WAS VISIBLE. IF THE CONTRACTOR CANNOT VERIFY BY SIZE AND DESIGNATION ALL EXISTING FRAMING
- ABILITY FROM WHAT WAS VISIBLE. IF THE CONTRACTOR CANNOT VERIFY BY SIZE AND DESIGNATION ALL EXISTING FRAMING SPECIFICALLY IN LOCATIONS THAT ARE BEING EFFECTED BY THE TENANT IMPROVEMENT THE ENGINEER MUST BE NOTIFIED IMMEDIATELY BEFORE CONSTRUCTION OR FABRICATION BEGINS.

 7. DURING THE DEMOLITION OF ALL INTERIOR/EXTERIOR FRAMING (AS
- SHOWN ON THE DEMO PLAN) THE CONTRACTOR MUST VERIFY THAT ALL FRAMING COMING OUT(IE: BEING DEMO'D) IS NOT LOAD BEARING OR IF IT IS LOAD BEARING SHORING PROVIDED BY THE CONTRACTOR MUST BE INSTALLED UNTIL PERMANENT STRUCTURE (AS SPECIFICALLY DETAILED IN THESE PLANS) IS COMPLETELY CONSTRUCTED. THE CONTRACTOR MUST CONTACT THE ENGINEER BEFORE CONTINUING WITH CONSTRUCTION (IN THAT AREA) IF THERE ARE AREAS OF THE EXISTING STRUCTURE THAT APPEAR TO BE OR ARE LOAD BEARING (I.e.: ALL STRUCTURAL ELEMENTS SUCH AS BEAMS, WALLS, COLUMNS, FLOOR/ROOF FRAMING, ETC.) AND ARE ON THE DEMO PLAN TO BE REMOVED BUT ARE NOT ADDRESSED WITH ADDITIONAL FRAMING IN THE STRUCTURAL PLANS BEFORE CONTINUING WITH CONSTRUCTION IN THAT AREA.

Reviewed for Code Compliance 09/28/2023

1 ROOF FRAMING PLAN

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

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IDENTIFICATION

Scale

Project Coordinator

STATUS

Current Release Date

06-28-23

Plan Check Submittal

REVISIONS

Planning Submittal

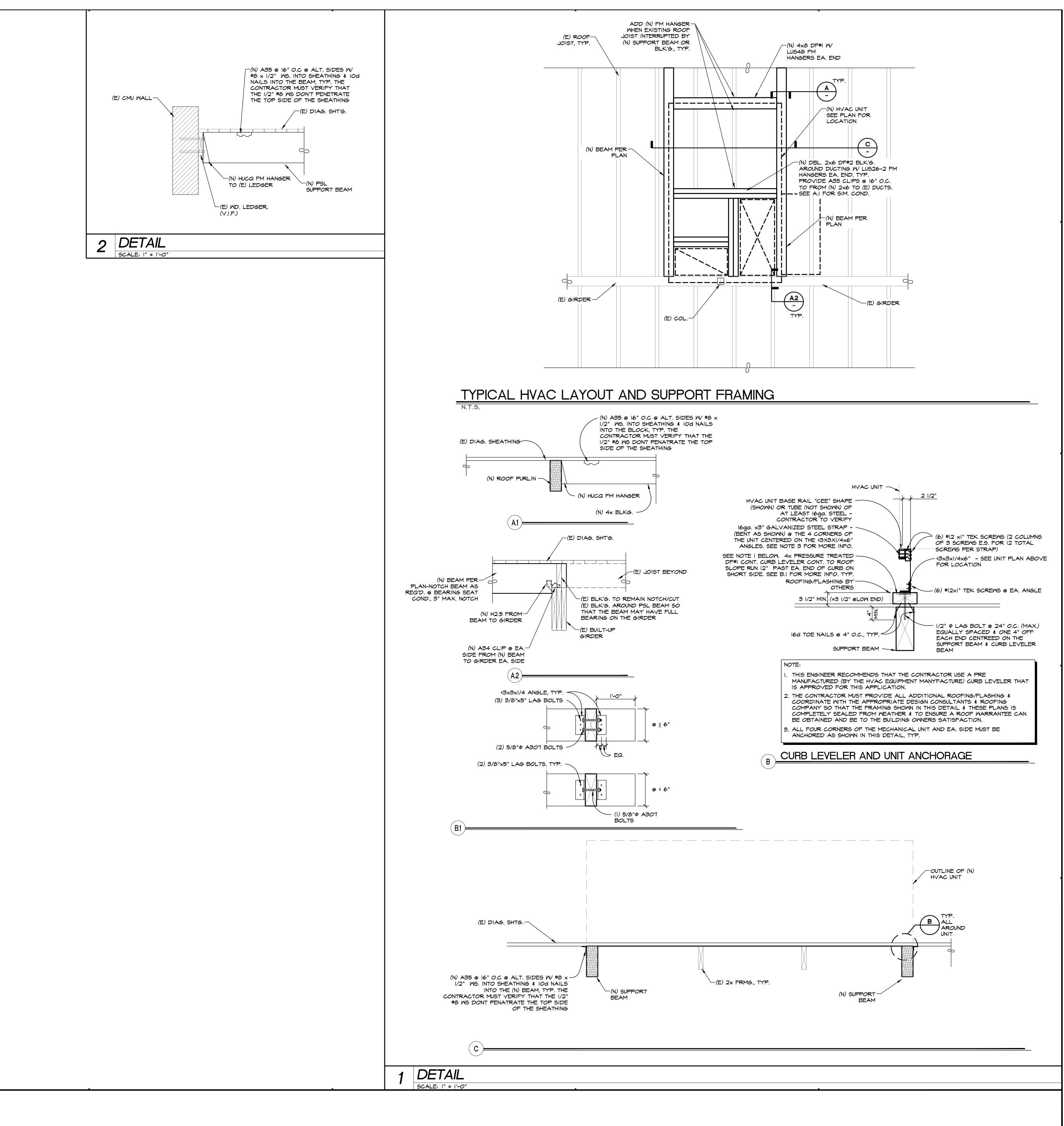
PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C' CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

BYA Project No.

ROOF FRAMING

S2.1

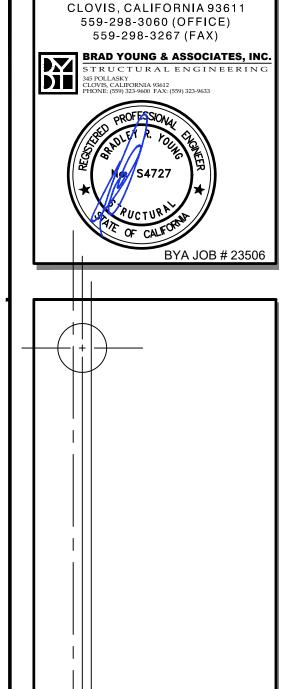


CENTERLINE
DESIGN, LLC

PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C'
CLOVIS, CALIFORNIA 93611
559-298-3060 (OFFICE)
559-298-3267 (FAX)

BRAD YOUNG & ASSOCIATES, INC.
STRUCTURAL ENGINEERING
345 POLLASKY
CLOVIS, CALIFORNIA 93612
PHONE: (559) 323-9600 FAX: (559) 323-9633



PROPOSED TENANT IMPROVEME

PROPOSED TENANT IMPROVEME

ATWATER CIVIC CENTER 2

1350 BROADWAY AVE.

ATWATER, CALIFORNIA 95301

Planning Submittal

Plan Check Submittal

REVISIONS

REVISIONS

IDENTIFICATION

| Scale | Project Coordinator

Sheet
FRAMING DETAILS

BYA Project No.

S3.1

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Reviewed for Code Compliance

09/28/2023

CSG CONSULTANTS, INC.

PLUMBING SCHEDULE

		F	PLUMB	ING FIX	KTURE	SCHEDULE
NAA DIA		CONNECTION SIZES				
MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
<u>WC-1</u>	WATER CLOSET ADA	3"	2"	1"		AMERICAN STANDARD 215AA.104 CADET PRO RIGHT HEIGHT ELONGATED TOILET, 16-1/2" HEIGHT, 1.28 GPF, FLOOR MOUNTED, OLSONITE MODEL 95 SEAT WITH OPEN FRONT LESS COVER, TOP OF SEAT SHALL BE BETWEEN 17" AND 19", TRIP LEVER SHALL BE ON WIDE SIDE OF STALL.
<u>WC-2</u>	WATER CLOSET	3"	2"	1"		AMERICAN STANDARD 215AA.105 CADET PRO RIGHT HEIGHT ELONGATED TOILET, 16-1/2" HEIGHT, 1.28 GPF, FLOOR MOUNTED, OLSONITE MODEL 95 SEAT WITH OPEN FRONT LESS COVER, TOP OF SEAT SHALL BE BETWEEN 17" AND 19", TRIP LEVER SHALL BE ON WIDE SIDE OF STALL.
<u>U-1</u>	URINAL	2"	1-1/2"	1"		AMERICAN STANDARD "PINTBROOK" URINAL, WALL HUNG, 0.125 GPF FLUSH VALVE MANUAL OPERATED #6045.013.002. A WALL CLEANOUT SHALL BE INSTALLED ABOVE THE FIXTURE CONNECTION FITTING SERVING EACH URINAL. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS.
<u>L-1</u>	LAVATORY ADA	1-1/2"	1-1/4"	1/2"	1/2"	AMERICAN STANDARD 0356.421 LUCERNE, WALLHUNG, 20"x18" VITREOUS CHINA BOWL WITH BACKSPLASH AND WALL BRACKET, CENTER HOLE ONLY MOEN 8413F03 SINGLE LEVER HANDLE FACUET WITH HOT TEMPERATURE LIMIT STOP SET TO 110°F MAX, 0.35 GPM, EBC COMPRESSION WALL STOPS AND SUPPLIES, SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
<u>KS-1</u>	KITCHEN SINK (TWO COMPARTMENT)	2"	1-1/2"	3/4"	3/4"	JUST MFG MODEL #UD-ADA-1832-A, UNDER-COUNTER MOUNT, TWO-COMPARTMENT SINK, (2) 14"x16" SINK BASINS, 18 GA TYPE 304 STAINLESS STEEL FULLY COATED UNDERSIDE WITH (2) #J-35GS BASKET STRAINERS AND STAINLESS STEEL DRAINS. CHICAGO MODEL #1100-GN8AE3-317AB SINGLE LEVER FAUCET WITH 8" CENTERS MODIFIED WITH MODEL #E3JKABCP 1.0 GPM AERATOR, P-TRAP WITH ESCUTCHEON, AND SPEEDWAY COMPRESSION WALL STOP AND TUBING.
<u>DF-1</u>	DRINKING FOUNTAIN W/ BOTTLE FILLER ADA	1-1/2"	1-1/4"	1/2"		ELKAY LZSTL8WSLK DUAL LEVEL UNIT WITH LZWSR BOTTLE FILLING STATION, HANGER BRACKET AND STAINLESS STEEL BASIN, R-134a REFERIGERANT, CAPACITY: 8.0 GPH OF 50°F WATER AT 80°F INLET WATER AND 90°F AMBIENT AIR, 115V/1PH, 6.0 FLA, 370 RATED WATTS, SEE ARCHITECTURAL ELEVATION FOR MOUNTING HEIGHT.
<u>MS-1</u>	MOP SINK	3"	1-1/2"	3/4"	3/4"	FLORESTONE MSR2424, WHITE MOLDED STONE, 24"x24"x10", FINISHED ON FOUR SIDES, STAINLESS STEEL DRAIN BODY, DOME STRAINER, MOEN 8230 FAUCET WITH HOSE END, BUCKET HOOK, VACUUM BREAKER, SERVICE STOPS, AND WALL BRACE.
<u>TP-1</u>	TRAP PRIMER			1/2"		SLOAN VBF-72-A1 VACUUM BREAKER TRAP PRIMER WITH ONE PIECE, CHROME PLATED, FLUSH CONNECTION, WATER DEFLECTOR, 3/8" ELBOW AND FLEX BEND TUBE CONNECTION FROM VACUUM BREAKER TO WALL, DIVERTER WALL FLANGE AND FITTING TO CONNECT 1/2" NPT PIPE.
<u>FD-1</u>	FLOOR DRAIN	2"	1-1/2"	TP		JAY R. SMITH 2005Y(A), COATED CAST IRON WITH 5" ROUND POLISHED NICKLE BRONZE GRATE, DOUBLE DRAINAGE FLANGE, PRIMER TAPPING, NO HUB OUTLET.
<u>FS-1</u>	FLOOR SINK	2"	1-1/2"			JAY R. SMITH 3150Y-12, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12-1/2" SQUARE TOP, 8" DEEP, WITH HALF GRATE, DOUBLE DRAINAGE FLANGE, NO-HUB OUTLET, DOME STRAINER AND TRAP PRIMER CONNECTION.
<u>SA-1</u>	SHOCK ABSORBER			1/2"		SMITH HYDROTROL, PDI SIZE "A", SMITH MODEL 4730 12"x12" ACCESS PANEL.
<u>CP-1</u>	CIRCULATING PUMP			3/4" HWR		GRUNDFOS MODEL UP1542F IN-LINE CIRCULATING PUMP WITH STAINLESS STEEL SHAFT, 6 GPM AT 11 TDH, 85 W, 115V, 1g.
<u>WH-1</u>	WATER HEATER			3/4"	3/4"	NAVIEN MODEL NPE-240S2, TANKLESS WATER HEATER, AHRI CERTIFIED, BUILT IN EZNAV MULTI-LINE CONTROL PANEL, MAX. 5.8 GPM @ 67°F TEMP RISE, WEIGHT: 73 LBS., ELECTRICAL: 120V AC, 60 HZ
<u>WH-2</u>	POINT OF USE WATER HEATER			3/4"	3/4"	CHRONOMITE SR-20L/120 INSTANTANEOUS ELECTRIC WATER HEATER. ELECTRICAL REQUIRED: 208V/1PH. DIMENSIONS: 9-5/8" LONG x 2-2/3" DEEP x 6-1/4" HIGH.

GAS CALCULATIONS									
	CPC 2022 - NATURAL GAS TABLE 1215.2(1)								
@125 FT	PIPE SIZE	1/2"	3/4"	1"	1-1/4"				
<u>w</u> 12311	CFH	44	92	173	355				

PLUMBING LEGEND

	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
&	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT RELOW FLOOR	DEL ELD
	BELOW FLOOR	BEL FLR
	BELOW GRADE CALIFORNIA MECHANICAL CODE	BEL GR CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
Q_	CENTER LINE	020
}	CONTINUATION	CONT
	CUBIC FEET PER HOUR	CFH
Ø	DIAMETER	DIA
	DOWN	DN
	DRAWING	DWG
	ELBOW	ELL
	ELECTRICAL	ELEC
	EXISTING	(E)
	FEET	FT
	FLOOR	FLR
	FLOW LINE	FL
	GALLON	GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	GAUGE	GA
	INSIDE DIAMETER	ID
	INVERT ELEVATION	I.E.
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW NOT IN CONTRACT	(N)
	NOT IN CONTRACT NOT TO SCALE	NIC NTS
#	NUMBER	NO.
π	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	ROOM	RM
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	THROUGH	THRU
	TYPICAL	(TYP)
	UNDER GROUND	
		U/G
	WATER COLUMN	U/G WC
	WATER COLUMN WITH	
		WC
A	WITH	WC W/
——————————————————————————————————————	WITH	WC W/ W/O
	WITH WITHOUT COMPRESSED AIR	WC W/ W/O A
—— AV ——	WITH WITHOUT COMPRESSED AIR ACID VENT	WC W/ W/O A AV
—— AV ———	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE	WC W/ W/O A AV AW
— AV — — AW — O	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER	WC W/ W/O A AV AW AVR
— AV — O	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF	WC W/ W/O A AV AW AVR AVTR
— AV — O	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN	WC W/ W/O A AV AW AVR AVTR CD
— AV — O O O — CD — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER	WC W/O A AV AW AVR AVTR CD CW
— AV — O O O — CD — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS	WC W/ W/O A AV AW AVR CD CW HW HWR
— AV — — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS HIGH PRESSURE GAS	WC W/ W/O A AV AW AVR AVTR CD CW HW HWR G HPG
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— AV — — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS	WC W/ W/O A AV AW AVR AVTR CD CW HW HWR G HPG
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— AV — — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS HIGH PRESSURE GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS FIRE PROTECTION LINE RAIN WATER LEADER OVERFLOW DRAIN	WC W/ W/O A AV AV AVR AVTR CD CW HW HWR G HPG ICW LPG RWL OD
— AV — — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS HIGH PRESSURE GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS FIRE PROTECTION LINE RAIN WATER LEADER OVERFLOW DRAIN STORM DRAIN	WC W/ W/O A AV AV AVR AVTR CD CW HW HWR G HPG ICW LPG RWL OD SD
— AV — — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS HIGH PRESSURE GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS FIRE PROTECTION LINE RAIN WATER LEADER OVERFLOW DRAIN	WC W/O A AV AV AVR AVTR CD CW HW HWR G ICW LPG RWL OD SD S or W
— AV — — AW— O O O O — CD— — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS HIGH PRESSURE GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS FIRE PROTECTION LINE RAIN WATER LEADER OVERFLOW DRAIN STORM DRAIN SOIL or WASTE	WC W/ W/O A AV AV AVR AVTR CD CW HW HWR G HPG ICW LPG RWL OD SD
— AV — — AW— O O O O O O O O O O O O O O O O O O O	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS HIGH PRESSURE GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS FIRE PROTECTION LINE RAIN WATER LEADER OVERFLOW DRAIN STORM DRAIN SOIL or WASTE GREASE WASTE	WC W/ W/O A AV AV AVR AVTR CD CW HW HWR G HPG ICW LPG RWL OD SD S or W GW MA
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— AV — — AW— O O O O O O O O O O O O O O O O O O O	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS HIGH PRESSURE GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS FIRE PROTECTION LINE RAIN WATER LEADER OVERFLOW DRAIN STORM DRAIN SOIL OF WASTE GREASE WASTE MEDICAL AIR OXYGEN VACUUM	WC W/ W/O A AV AV AVR AVTR CD CW HW HWR G ICW LPG ICW LPG RWL OD SD S or W GW MA O2 VAC
— AV — — AW— — O O O — CD— — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS FIRE PROTECTION LINE RAIN WATER LEADER OVERFLOW DRAIN STORM DRAIN SOIL OF WASTE GREASE WASTE MEDICAL AIR OXYGEN VACUUM	WC W/ W/O A AV AV AVR AVTR CD CW HW HWR G HPG ICW LPG RWL OD SD S or W GW MA O2 VAC V
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— AV — — AW— — O O O — CD— — — — — — — — — — — — — — — — — —	WITH WITHOUT COMPRESSED AIR ACID VENT ACID WASTE ACID VENT RISER ACID VENT THRU ROOF CONDENSATE DRAIN DOMESTIC COLD WATER DOMESTIC HOT WATER RETURN LOW PRESSURE NATURAL GAS HIGH PRESSURE GAS INDUSTRIAL COLD WATER LIQUIFIED PETROLEUM GAS FIRE PROTECTION LINE RAIN WATER LEADER OVERFLOW DRAIN STORM DRAIN STORM DRAIN SOIL OF WASTE GREASE WASTE MEDICAL AIR OXYGEN VACUUM VENT VENT THRU ROOF	WC W/ W/O A AV AV AV AVR AVTR CD CW HW HWR G HPG ICW LPG RWL OD SD S or W GW MA O2 VAC V VR
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	SYMBOL	ITEM	ABBR.
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3		CONCENTRIC REDUCER	
		TWO-WAY CONTROL VALVE	
	$ \nabla $	PLUG VALVE	
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	⊗	SHUT-OFF VALVE IN BOX	SOV
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	1	KEYNOTE	
	<u>WC-1</u>	NEW FIXTURE TAG EXAMPLE WATER CLOSET - TYPE 1 (REFER TO PLUMBING SCHEDULE)	
$\exists \ [$	P800	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P800	
	3 P300	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P300	

GENERAL NOTES

- 1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- 2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- 3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- 4. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
- 5. EXISTING PIPING IS SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. INFORMATION OF (E) UTILITIES IS BASED UPON EXISTING PLUMBING DRAWINGS AND OWNER'S BEST KNOWLEDGE. EXISTING INFORMATION SHOWN MAY NOT BE TAKEN AS COMPREHENSIVE, AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING INFORMATION SHOWN.
- 6. MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE NOTED. 7. ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM
- 8. MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4". USE A
- REDUCING ELL AT FIXTURE, IF NECESSARY.

WITH AS FEW PENETRATIONS AS POSSIBLE.

- 9. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF POINTS OF CONNECTION TO SITE UTILITIES.
- 10. ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE" REQUIREMENT FOR THE STATE OF CALIFORNIA.
- 11. MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS.
- 12. LEAN CONCRETE SHALL BE USED AS BACK FILL WHERE UTILITY TRENCHES EXTEND FROM THE EXTERIOR TO THE INTERIOR LIMITS OF THE BUILDING. LEAN CONCRETE SHALL EXTEND A MINIMUM DISTANCE OF TWO (2) FEET LATERALLY ON EACH SIDE OF THE EXTERIOR BUILDING LINE AND A MINIMUM OF SIX (6) INCHES ABOVE FOOTING PENETRATION.

SHEET INDEX

- P-0.0 PLUMBING SCHEDULE, LEGEND AND GENERAL NOTES
- P-0.1 PLUMBING SPECIFICATIONS
- P-2.0 PLUMBING DEMO PLAN
- P-2.1 PLUMBING FLOOR PLAN
- P-3.0 PLUMBING DEMO ROOF PLAN
- P-8.0 PLUMBING DETAILS

P-3.1 PLUMBING ROOF PLAN



PLANNING - DESIGN - CONSULTING CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

STATUS

Current Release Date 06-15-23 Planning Submittal Plan Check Submittal

REVISIONS

IDENTIFICATION

Project Coordinator Project No.

Sheet

THE WRITTEN CONSENT OF CENTERLINE DESIGN, LLC AND/OR CONSULTANTS.

Reviewed for Code Compliance

09/28/2023

CSG CONSULTANTS, INC.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS DIVISION.
- 1.2 CODES AND REGULATIONS: ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:
- A. 2022 CALIFORNIA BUILDING CODE B. 2022 CALIFORNIA MECHANICAL CODE
- C. 2022 CALIFORNIA PLUMBING CODE
- CALIFORNIA CODE OF REGULATIONS, TITLE 8, INDUSTRIAL RELATIONS CALIFORNIA CODE OF REGULATIONS, TITLE 24, BUILDING STANDARDS
- 1.3 SCOPE: PROVIDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR COMPLETE, LAWFUL AND OPERATING SYSTEMS AS SHOWN OR NOTED ON THE DRAWINGS OR AS SPECIFIED HERE. THE WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:
- A. SANITARY SEWER SYSTEM.
- B. DOMESTIC WATER SYSTEM. DRAIN SYSTEM (INCLUDING CONDENSATE DRAIN).

D. ALL EQUIPMENT AS SHOWN OR NOTED ON THE DRAWINGS OR AS SPECIFIED.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

A. SANITARY SEWER:

SOIL, WASTE AND VENT PIPING:

- a. INSIDE BUILDING AND WITHIN FIVE FEET OF BUILDING WALLS: STANDARD WEIGHT COATED CAST IRON PIPE AND FITTINGS, CISPI 301, OR HUB END WITH RUBBER GASKETS, ASTM A74, ASTM C564. ALL CAST IRON PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AS MANUFACTURED BY TYLER, AB&I OR CHARLOTTE. HEAVY-DUTY SHIELDED COUPLINGS, TYPE 304 STAINLESS STEEL, WITH NEOPRENE GASKET, ASTM C1540. HUSKY HD 2000, CLAMP-ALL 80. MISSION HEAVYWEIGHT MG COUPLINGS ARE ALSO ACCEPTABLE
- b. 2" AND SMALLER ABOVE GRADE MAY BE STANDARD WEIGHT GALVANIZED STEEL, ASTM A120/A53, WITH COATED CAST IRON RECESSED DRAINAGE FITTINGS, ANSI B16.12. c. 2" AND SMALLER EXPOSED TO VIEW SHALL BE GALVANIZED STEEL, ASTM A120/A53, WITH COATED CAST IRON RECESSED DRAINAGE FITTINGS, ANSI B16.12.
- 2. CLEANOUTS: COMPARABLE MODELS OF JOSAM, WADE OR ZURN ARE ACCEPTABLE. a. FLOOR CLEANOUTS: SMITH 4028 WITH NICKEL BRONZE TOP IN FINISHED AREAS, SMITH 4228 IN UTILITY
- b. WALL CLEANOUTS: SMITH 4532 WITH STAINLESS STEEL COVER AND SCREW. c. PIPE CLEANOUTS: IRON BODY WITH THREADED BRASS PLUG.
- 3. PIPE CLEANOUTS: IRON BODY WITH THREADED BRASS PLUG.

COLD WATER:

- a. INSIDE BUILDING, WITHIN FIVE FEET OF BUILDING WALLS, AND ALL ABOVE GRADE: HARD TEMPER SEAMLESS COPPER, ASTM B88. WROUGHT COPPER FITTINGS, ANSI B16.22. TYPE L WITH BRAZED JOINTS (1100F MIN.). 1-1/2" AND SMALLER ABOVE GRADE MAY BE SOLDERED, 95-5 TIN-ANTIMONY SOLDER. ALL NIPPLES SHALL BE RED BRASS (85% COPPER). ABOVE GRADE FITTINGS MAY BE COPPER (1/2" TO 2") OR BRONZE (2-1/2" TO 4") PRESS FITTINGS, ASME B16.18 OR ASME B16.22. EPDM O-RINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. NIBCO,
- b. OUTSIDE BUILDING BELOW GRADE: 3" AND SMALLER MAY BE SCHEDULE 40 POLYVINYL CHLORIDE (PVC) WITH SOLVENT WELD FITTINGS WHERE APPROVED BY ADMINISTRATIVE AUTHORITY. c. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS.

- a. INSIDE BUILDING ABOVE SLAB: SAME AS COLD WATER PIPING INSIDE BUILDING. b. OUTSIDE BUILDING OR BELOW SLAB: PRE-INSULATED. TYPE L COPPER CORE 1" FOAMED POLYURETHANE INSULATION. POLYVINYL CHLORIDE JACKET. SEALED ENDS. RUBBER RING INTERNAL SLIP JOINT. FITTINGS SHALL BE WROUGHT COPPER, WITH BRAZED JOINTS (1100 F MIN.). RICWIL,
- C. VALVES AND SPECIALTIES: GENERAL: MANUFACTURER'S MODEL NUMBERS ARE LISTED TO COMPLETE DESCRIPTION. EQUIVALENT MODELS OF CRANE, GRINNELL, MILWAUKEE, NIBCO, STOCKHAM OR WALWORTH ARE ACCEPTABLE. ALL
- VALVES OF A PARTICULAR TYPE OR FOR A PARTICULAR SERVICE SHALL BE BY THE SAME MANUFACTURER. USE FULL PORT BALL VALVE FOR 2" AND SMALLER WATER SHUTOFF VALVES; SEE SPECIFICATION BELOW. 2. BALL VALVE: FULL PORT. BRONZE BODY, CAP, STEM, DISK AND BALL. SCREWED CONNECTION. LEVER
- HANDLE. TFE SEAT. O-RING SEALS. 300 PSI WOG. APOLLO, GRINNELL, JOMAR. 3. CHECK VALVE: 2" AND SMALLER PROVIDE ALL BRONZE SWING CHECK, REGRINDING. 200 PSI WOG.

D. MISCELLANEOUS SPECIALTIES:

STOCKHAM B-319.

- TEMPERATURE AND PRESSURE RELIEF VALVE: ASME RATED FULLY AUTOMATIC, RESEATING COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE SIZED IN ACCORDANCE WITH ENERGY INPUT. SENSING ELEMENT IMMERSED WITHIN UPPER 6" OF TANK. WATTS.
- 2. UNION: FOR 2" AND SMALLER, PROVIDE AAR MALLEABLE IRON, BRONZE TO IRON GROUND SEAT. 300 PSI.
- 3. SHOCK ABSORBER: MULTIPLE BELLOWS. SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATIONS. DESIGNED AND APPLIED IN ACCORDANCE WITH PDI WH201. SIOUX CHIEF, WATTS.
- DRAIN PIPING (INCLUDING CONDENSATE): COPPER TYPE L AS SPECIFIED ABOVE FOR INSIDE BUILDING COLD WATER PIPING WITH SOLDERED JOINTS. PRESS FITTINGS NOT ACCEPTABLE.
- 1. PIPE HANGER: STEEL CLEVIS HANGER. LOAD AND JAMB NUTS. SIZE AND MAXIMUM LOAD PER MANUFACTURER'S RECOMMENDATION. FELT LINER FOR COPPER PIPING. HANGER AND ROD SHALL HAVE GALVANIZED FINISH. B-LINE, GRINNELL, UNISTRUT.
- 2. CONSTRUCTION CHANNEL: 12-GAGE, 1-5/8" x 1-5/8" GALVANIZED STEEL CHANNEL. SINGLE OR MULTIPLE SECTION. SELF-LOCKING NUTS AND FITTINGS. B-LINE, GRINNELL, UNISTRUT.

2.2 PIPING INSULATION MATERIALS

- A. GENERAL: ALL PIPING INSULATION MATERIALS SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED
- UNDER ASTM E-84 AND UL 723 NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50. B. PRE-MOLDED FIBERGLASS: HEAVY DENSITY SECTIONAL PRE-MOLDED FIBERGLASS WITH VAPOR BARRIER LAMINATED ALL SERVICE JACKET AND PRESSURE SEALING VAPOR BARRIER LAP. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.25 BTU-IN/HR-FT²-F AT A MEAN TEMPERATURE OF 50F. PERM RATING 0.02, ASTM E96. PUNCTURE RATING 50 BEACH UNITS, ASTM D781. PROVIDE 3" (MIN.) WIDE TAPE OF SAME MATERIAL AS LAP FOR BUTT JOINTS. FOR HOT WATER PIPING, THICKNESS SHALL BE 1" FOR PIPE SIZES 3/4" AND LESS; 1-1/2" THICKNESS
- FOR PIPE SIZES 1" AND LARGER. CERTAINTEED, KNAUF, JOHNS-MANVILLE, OWENS-CORNING. C. FIBERGLASS BLANKET: UNFACED. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.25 BTU-IN/HR-FT²-F AT A MEAN TEMPERATURE OF 50F. 1-1/2" THICKNESS. KNAUF, JOHNS-MANVILLE, OWENS-CORNING.
- D. PVC JACKET (FOR PIPE, FITTINGS AND VALVES): PRE-MOLDED POLYVINYL CHLORIDE (PVC) JACKETS, 0.020" THICKNESS. SIZE TO MATCH APPLICATION. PROVIDE SOLVENT WELD ADHESIVE AND PVC VAPOR BARRIER
- PRESSURE SEALING TAPE BY SAME MANUFACTURER, ZESTON. VAPOR BARRIER COATING: CHILDERS CP-30, FOSTER 30-25.
- LAGGING ADHESIVE: CHILDERS CP-50A, FOSTER 30-36. . INSULATING TAPE: GROUND VIRGIN CORK AND SYNTHETIC ELASTOMERIC. BLACK, ODORLESS, AND NON-TOXIC. K FACTOR 0.43 BTU-IN/HR-FT²-F OR LESS. NON-SHRINKING. FOR OUTDOOR USE, PROVIDE PROTECTIVE FINISH BY SAME MANUFACTURER. HALSTEAD.

2.3 FIXTURES

- A. GENERAL: PROVIDE ROUGH-IN FOR AND INSTALL ALL PLUMBING FIXTURES SHOWN ON DRAWINGS. EXCEPT IN EQUIPMENT ROOMS, ALL TRIM, VALVES AND PIPING NOT CONCEALED IN WALL STRUCTURE, ABOVE CEILING OR BELOW FLOORS, SHALL BE BRASS WITH POLISHED CHROME PLATE FINISH, UNLESS NOTED OTHERWISE. ALL
- ENAMELED FIXTURES SHALL BE ACID RESISTING. STANDARD COLOR IS WHITE UNLESS OTHERWISE NOTED. B. SCHEDULE: REFER TO PLUMBING FIXTURE SCHEDULE ON THE DRAWINGS FOR LIST OF FIXTURES AND TRIM. MANUFACTURER'S MODEL NUMBERS ARE LISTED TO COMPLETE DESCRIPTION. EQUIVALENT MODELS OF AMERICAN STANDARD, ELJER, ELKAY, HAWS, KOHLER OR T&S BRASS ARE ACCEPTABLE. FOR DRAINAGE FIXTURES, EQUIVALENT MODELS OF JOSAM, SMITH OR ZURN ARE ACCEPTABLE. C. STOPS AND P-TRAPS: ALL FIXTURES SHALL BE PROVIDED WITH STOPS AND P-TRAPS AS APPLICABLE.

WALL-MOUNTED FAUCETS, VALVES, ETC. SHALL HAVE INTEGRAL STOPS OR WALL-MOUNTED STOPS.

- 1. STOPS: ALL HOT AND COLD WATER SUPPLIES SHALL BE 1/2" I.P.S. INLET ANGLE STOPS WITH STUFFING BOX, LOOSE KEY LOCK SHIELD, AND BRASS RISER (3/8" FOR 2-1/2" GPM AND LESS, OTHERWISE 1/2"). MCGUIRE,
- 2. P-TRAPS: SEMI-CAST BRASS, GROUND JOINT. 17-GAGE. CLEANOUT PLUG. UNOBSTRUCTED WATERWAY. CALIFORNIA TUBULAR, MCGUIRE.

- A. GENERAL REQUIREMENTS: 1. CAPACITY: CAPACITIES SHALL BE IN ACCORDANCE WITH SCHEDULES SHOWN ON DRAWINGS. CAPACITIES ARE TO BE CONSIDERED MINIMUM.
- 2. DIMENSIONS: EQUIPMENT MUST CONFORM TO SPACE REQUIREMENTS AND LIMITATIONS AS INDICATED ON DRAWINGS AND AS REQUIRED FOR OPERATION AND MAINTENANCE. EQUIPMENT WILL NOT BE ACCEPTED THAT DOES NOT READILY CONFORM TO SPACE CONDITIONS. PREPARE AND SUBMIT LAYOUT DRAWINGS FOR ALL PROPOSED EQUIPMENT (DIFFERENT THAN SCHEDULED UNITS) SHOWING ACTUAL JOB CONDITIONS, REQUIRED CLEARANCES FOR PROPER OPERATION, MAINTENANCE, ETC..
- ELECTRICAL RATINGS: ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA STANDARDS AND UL
- OR ETL LISTED WHERE APPLICABLE STANDARDS HAVE BEEN ESTABLISHED. 4. PIPING: EACH ITEM OR ASSEMBLY OF ITEMS SHALL BE FURNISHED COMPLETELY PIPED FOR CONNECTION TO SERVICES. CONTROL VALVES AND DEVICES SHALL BE PROVIDED. EQUIPMENT REQUIRING DOMESTIC WATER FOR NON-POTABLE USE SHALL BE PROVIDED WITH BACKFLOW PREVENTER ACCEPTABLE FOR
- INTENDED USE BY LOCAL GOVERNING AUTHORITIES. 5. ELECTRICAL GENERAL REQUIREMENTS: EACH ITEM OR ASSEMBLY OF ITEMS SHALL BE FURNISHED COMPLETELY WIRED TO INDIVIDUAL TERMINAL BLOCKS FOR CONNECTION TO SINGLE BRANCH ELECTRICAL
- PROVIDE TERMINAL BLOCKS FOR CONTROLS AND INTERLOCKS NOT INCLUDED IN EQUIPMENT PACKAGE. CONTROLLERS AND OTHER DEVICES SHALL BE IN NEMA 1 OR 3R ENCLOSURES AS APPLICABLE. 6. ELECTRICAL WIRING: CONDUCTORS, CONDUIT, AND WIRING SHALL BE IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS. INDIVIDUAL ITEMS WITHIN ASSEMBLY SHALL BE SEPARATELY PROTECTED WITH DEAD FRONT, FUSED DISCONNECT, FUSE BLOCK, OR CIRCUIT BREAKER FOR EACH UNGROUNDED CONDUCTOR,

CIRCUIT. ALL ELECTRICAL ACCESSORIES AND CONTROLS REQUIRED BY EQUIPMENT SHALL BE FURNISHED.

ALL ACCESSIBLE ON OPERATING SIDE OF EQUIPMENT. SWITCHES, CONTACTS AND OTHER DEVICES SHALL

- BE IN UNGROUNDED CONDUCTORS. 7. ELECTRICAL SUBMITTALS: INCLUDED IN SHOP DRAWINGS SHALL BE INTERNAL WIRING DIAGRAMS AND MANUFACTURER'S RECOMMENDED EXTERNAL WIRING.
- B. WATER HEATER: ELECTRIC. GLASS-LINED TANK WITH MAGNESIUM ANODE PROTECTION. 150 PSI WORKING PRESSURE. FULLY INSULATED. AUTOMATIC TEMPERATURE CONTROL. HIGH LIMIT CONTROL. PROVIDE ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE SIZED IN ACCORDANCE WITH ENERGY INPUT, DIELECTRIC COUPLINGS AND DRAIN COCK. UL LISTED. A.O. SMITH, AMERICAN APPLIANCE, STATE INDUSTRIES.

3.1 PIPING INSTALLATION

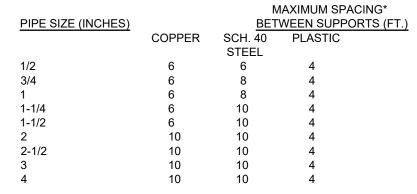
- 1. PIPING LAYOUT: PIPING SHALL BE CONCEALED IN WALLS, ABOVE THE CEILINGS, OR BELOW GRADE UNLESS OTHERWISE NOTED. EXPOSED PIPING SHALL RUN PARALLEL TO ROOM SURFACES; LOCATION TO BE APPROVED BY THE ENGINEER. NO STRUCTURAL MEMBER SHALL BE WEAKENED BY CUTTING, NOTCHING, BORING OR OTHERWISE, UNLESS SPECIFICALLY ALLOWED BY STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS. WHERE SUCH CUTTING IS REQUIRED, REINFORCEMENT SHALL BE PROVIDED AS SPECIFIED OR DETAILED. ALL PIPING SHALL BE INSTALLED IN A MANNER TO ENSURE UNRESTRICTED FLOW, ELIMINATE AIR POCKETS, PREVENT ANY UNUSUAL NOISE, AND PERMIT COMPLETE DRAINAGE OF THE SYSTEM. ALL PIPING SHALL BE INSTALLED TO PERMIT EXPANSION AND CONTRACTION WITHOUT STRAIN ON PIPING OR EQUIPMENT. VERTICAL LINES SHALL BE INSTALLED TO ALLOW FOR BUILDING SETTLEMENT WITHOUT DAMAGE TO PIPING. PIPE SIZES INDICATED ON THE DRAWINGS ARE NOMINAL SIZES UNLESS OTHERWISE NOTED. PROVIDE SECONDARY DRAIN PIPING WHERE REQUIRED.
- JOINTS: a. THREADED: PIPE SHALL BE CUT SQUARE AND REAMED TO FULL SIZE. THREADS SHALL BE IN ACCORDANCE WITH ANSI B2.1. JOINT COMPOUND OR TAPE SUITABLE FOR CONVEYED FLUID SHALL BE
- b. WELDED OR BRAZED: FILLER ROD SHALL BE OF SUITABLE OR THE SAME ALLOY AS PIPE. BRAZING FILLER METAL SHALL HAVE A MINIMUM MELTING POINT OF 1100F. WELDING OR BRAZING SHALL BE PERFORMED BY A CERTIFIED WELDER OR BRAZER AS CERTIFIED BY AN ORGANIZATION/INSTITUTION THAT USES STANDARDS RECOGNIZED BY THE AMERICAN WELDING SOCIETY (AWS) AND MEETS THE
- REQUIREMENTS OF THE ASME BOILER AND PRESSURE VESSELS CODE, SECTION 9. c. OPEN ENDS: OPEN ENDS OF PIPING SHALL BE CAPPED DURING PROGRESS OF WORK TO PRECLUDE
- d. ELECTRICAL EQUIPMENT: PIPING SHALL NOT BE RUN OVER ELECTRICAL PANELS, MOTOR CONTROL CENTERS OR SWITCHBOARDS.

FITTINGS AND VALVES:

- a. STANDARD FITTINGS: ALL JOINTS AND CHANGES IN DIRECTION SHALL BE MADE WITH STANDARD FITTINGS. CLOSE NIPPLES SHALL NOT BE USED.
- b. UNIONS: A UNION SHALL BE INSTALLED ON THE LEAVING SIDE OF EACH VALVE, AT ALL SIDES OF AUTOMATIC VALVES, AT EQUIPMENT CONNECTIONS, AND ELSEWHERE AS NECESSARY FOR ASSEMBLY OR DISASSEMBLY OF PIPING.
- c. VALVES: ALL VALVES SHALL BE FULL LINE SIZE. PROVIDE SHUT OFF VALVE FOR EACH BUILDING AND EACH EQUIPMENT CONNECTION, PROVIDE SHUT OFF VALVE AT EACH POINT OF CONNECTION TO EXISTING PIPING. AT EQUIPMENT CONNECTIONS, VALVES SHALL BE FULL SIZE OF UPSTREAM PIPING, EXCEPT THAT GAS VALVES WITHIN 18" OF THE POINT OF CONNECTION TO THE EQUIPMENT MAY BE THE
- SAME SIZE AS THE EQUIPMENT CONNECTION. d. VALVE ACCESSIBILITY: ALL VALVES SHALL BE LOCATED SO THAT THEY ARE EASILY ACCESSIBLE. VALVES LOCATED ABOVE CEILINGS SHALL BE INSTALLED WITHIN 24" OF THE CEILING. REFER TO SPECIFICATION 200000 FOR ACCESS REQUIREMENTS.

a. GENERAL: HANGERS SHALL BE PLACED TO SUPPORT PIPING WITHOUT STRAIN ON JOINTS OR FITTINGS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE AS SPECIFIED BELOW. ACTUAL SPACING REQUIREMENTS WILL DEPEND ON STRUCTURAL SYSTEM. SIDE BEAM CLAMPS SHALL BE PROVIDED WITH RETAINING STRAPS TO SECURE THE CLAMP TO THE OPPOSITE SIDE OF THE BEAM. VERTICAL PIPING SHALL BE SUPPORTED WITH RISER CLAMP AT 20' ON CENTER (MAXIMUM). SUPPORT PIPE WITHIN 12" OF ALL CHANGES IN DIRECTION. SUPPORT INDIVIDUAL PIPES WITH PIPE HANGER. COPPER PIPING SYSTEMS WHICH PROTRUDE THROUGH A SURFACE FOR CONNECTION TO A FIXTURE STOP OR OTHER OUTLET SHALL BE SECURED WITH A DROP ELL, GRINNELL NO. 9788; NIPPLE THROUGH SURFACE SHALL BE THREADED BRASS.

1) PRESSURE PIPE:



RECOMMENDATIONS. SEISMIC REQUIREMENTS MAY REDUCE MAXIMUM SPACING.

*BASED ON STRAIGHT LENGTHS OF PIPE WITH COUPLINGS ONLY. PROVIDE ADDITIONAL SUPPORTS FOR EQUIPMENT. VALVES OR OTHER FITTINGS. PLASTIC PIPING SHALL BE SUPPORTED PER THE MANUFACTURER'S

- 2) GRAVITY DRAIN PIPE: PIPING SHALL BE SUPPORTED AT EACH LENGTH OF PIPE OR FITTING, BUT IN NO CASE AT GREATER SPACING THAN INDICATED ABOVE FOR PRESSURE PIPE.
- b. HOT AND COLD WATER PIPING: ALL HOT AND COLD WATER PIPING SHALL HAVE ISOLATION SHIELD; NO PORTION OF THIS PIPING SHALL TOUCH THE STRUCTURE WITHOUT AN ISOLATING SHIELD EXCEPT AT
- ANCHOR POINTS FOR FIXTURE ROUGH-IN. c. TRAPEZE: TRAPEZE HANGERS OF CONSTRUCTION CHANNEL AND PIPE CLAMPS MAY BE USED. SUBMIT DESIGN TO ENGINEER FOR REVIEW.

5. MISCELLANEOUS:

- a. ESCUTCHEONS: PROVIDE CHROME PLATED METAL ESCUTCHEONS WHERE PIPING PENETRATES WALLS,
- CEILINGS, OR FLOORS IN FINISHED AREAS. b. PIPE SLEEVES: ALL PIPING PASSING THROUGH CONCRETE SHALL BE PROVIDED WITH PIPE SLEEVES. ALLOW 1" ANNULAR CLEARANCE BETWEEN SLEEVE AND PIPE FOR PIPING 3" AND SMALLER, OTHERWISE
- 2" ANNULAR CLEARANCE. PIPING THROUGH WALLS BELOW GRADE SHALL BE SEALED WITH LINK-SEAL. c. EXPOSED PIPE AT FIXTURES: PIPING EXTENDING FROM FINISHED SURFACES INTO A FINISHED ROOM SHALL BE CHROME PLATED BRASS, EXCEPT UNDER KITCHEN SINKS IN COMMERCIAL KITCHENS.

B. SANITARY SEWER:

- GENERAL: WHERE INVERTS ARE NOT INDICATED, SANITARY SEWER PIPING SHALL BE INSTALLED AT 1/4" PER FOOT PITCH. PIPING 4" AND LARGER MAY BE INSTALLED AT 1/8" PER FOOT PITCH WHERE STRUCTURAL OR OTHER LIMITATIONS PREVENT INSTALLATION AT A GREATER PITCH. BELL AND SPIGOT PIPING SHALL BE
- INSTALLED WITH BARREL ON SAND BED; EXCAVATE HOLE FOR BELL. 2. CLEANOUTS: INSTALL CLEANOUTS AT ENDS OF LINES. AT CHANGES OF DIRECTION GREATER THAN 45 DEGREES, AND NOT GREATER THAN 100 FOOT INTERVALS. LOCATE INTERIOR CLEANOUTS IN ACCESSIBLE LOCATIONS AND BRING FLUSH TO FINISHED SURFACE.
- 3. VENTS: VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF NOR LESS THAN 24" FROM ANY VERTICAL SURFACE NOR WITHIN 10' OF ANY OUTSIDE AIR INTAKE. INSTALL HORIZONTAL VENT LINES AT 1/4" PER FOOT PITCH. OFFSET VENTS 2' MINIMUM FROM GUTTERS, PARAPETS, RIDGES AND ROOF FLASHING.
- C. WATER PIPING: CONNECTIONS TO BRANCHES AND RISERS SHALL BE MADE FROM TOP OF MAIN. SUPPLY HEADER IN FIXTURE BATTERY SHALL BE FULL SIZE TO LAST FIXTURE, REDUCING IN SIZE ONLY ON INDIVIDUAL CONNECTIONS TO EACH FIXTURE IN BATTERY. MINIMUM PIPE SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED. EXPOSED FIXTURE STOPS AND FLUSH VALVES SHALL BE INSTALLED WITH BRASS NIPPLES FOR COPPER PIPING AND GALVANIZED NIPPLES FOR GALVANIZED PIPING. NIPPLES ARE TO EXTEND FROM OUTSIDE OF WALL TO FITTING AT HEADER OR DROP BEHIND FINISH WALL SURFACES. PIPE NIPPLES SHALL BE SAME SIZE AS STOP OR FLUSH VALVE. PROVIDE SHUT OFF FOR EACH BUILDING AND EACH CONNECTION TO EQUIPMENT. SHOCK ABSORBERS SHALL BE INSTALLED IN A VERTICAL POSITION PER MANUFACTURER'S INSTRUCTIONS AND PER PDI-WH 201 WHERE FLUSH VALVES. METERING FAUCETS OR OTHER FAST ACTING VALVES ARE CONNECTED TO THE DOMESTIC PIPING SYSTEM. ONLY EQUIPMENT MOUNTED ON VIBRATION ISOLATORS SHALL BE CONNECTED WITH FLEXIBLE CONNECTIONS. UNDERGROUND HOT WATER AND COLD WATER PIPING WHICH RUN PARALLEL TO EACH OTHER SHALL BE INSTALLED A MINIMUM OF 3 FEET APART.
- D. DRAIN PIPING (INCLUDING CONDENSATE): INSTALL WITH CONSTANT PITCH TO RECEPTACLE, 1/4" PER FOOT WHERE POSSIBLE, OTHERWISE 1/8" PER FOOT MINIMUM. PROVIDE TEE WITH CLEAN-OUT PLUG AT ALL CHANGES OF DIRECTION. PROVIDE TRAP AT EACH AIR HANDLING UNIT TO PREVENT AIR LEAKAGE. ONLY EQUIPMENT MOUNTED ON VIBRATION ISOLATORS SHALL BE CONNECTED WITH FLEXIBLE CONNECTION. PIPING NOT CONCEALED IN WALL STRUCTURE, ABOVE CEILINGS OR BELOW FLOORS SHALL BE CHROME PLATED BRASS.
- E. PVC PIPING: SHALL BE CUT SQUARE AND ASSEMBLED PRIOR TO SOLVENT WELD. APPLY PRIMER PER MANUFACTURER'S RECOMMENDATIONS. COAT MALE JOINT FULLY WITH SOLVENT, MAKE JOINT BEFORE SOLVENT DRIES AND WIPE EXTERIOR CLEAN.

3.2 PIPING INSULATION INSTALLATION

A. DOMESTIC HOT WATER:

- 1. GENERAL: ALL DOMESTIC HOT WATER PIPING, FITTINGS AND ACCESSORIES SHALL BE INSULATED. 2. PIPE: APPLY PRE-MOLDED FIBERGLASS SECTIONS TO PIPE USING INTEGRAL PRESSURE SEALING LAP
- ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. STAGGER LONGITUDINAL JOINTS. SEAL BUTT JOINTS WITH FACTORY SUPPLIED PRESSURE SEALING TAPE. 3. PIPE INSULATION (MAXIMUM THERMAL CONDUCTIVITY - 0.23 BTU-IN/HR-FT2-F): INSULATE HOT WATER PIPING
- WITH 1" THICK FIBERGLASS WITH ALL SERVICE JACKET. 4. FITTINGS AND VALVES: WRAP ALL FITTINGS AND VALVES WITH PRE_CUT FIBERGLASS BLANKET TO THICKNESS MATCHING ADJOINING INSULATION. COVER BLANKET WITH PVC JACKET IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SOLVENT WELD. SEAL ALL JOINTS WITH FACTORY SUPPLIED PRESSURE SEALING VAPOR BARRIER TAPE WITH 1-1/2" (MIN.) OVERLAP ON BOTH SIDES OF JOINT. INSULATE VALVES TO STEM. DO NOT INSULATE UNIONS, FLANGES OR VALVES UNLESS WATER TEMPERATURE EXCEEDS 140°F OR THE PIPING IS EXPOSED TO WEATHER. FOR MISCELLANEOUS FITTINGS AND ACCESSORIES FOR WHICH PVC JACKETS ARE NOT AVAILABLE OR WHERE PROXIMITY OF FITTINGS PRECLUDES A NEAT-APPEARING INSTALLATION, THE CONTRACTOR MAY COVER THE FIBERGLASS BLANKET WITH STRETCHABLE GLASS FABRIC, ONE COAT OF LAGGING ADHESIVE AND A FINAL COAT OF VAPOR
- BARRIER COATING. ALL EXPOSED ENDS OF INSULATION SHALL BE ADEQUATELY SEALED. 5. ADDITIONAL FINISH FOR EXPOSED PIPING AND EQUIPMENT: ALL PIPING AND EQUIPMENT EXPOSED TO VIEW BUT PROTECTED FROM THE WEATHER SHALL BE GIVEN AN ADDITIONAL FINISH OF PVC JACKETS.
- B. PIPING INSULATION UNDER DISABLED ACCESSIBLE LAVATORIES AND SINKS: HOT AND COLD WATER PIPING, HOT AND COLD WATER STOP AND DRAIN PIPING UNDER DISABLED ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED WITH 3/16" THICK MOLDED CLOSED CELL VINYL TO PREVENT ACCIDENTAL INJURY DUE TO CONTACT OR TEMPERATURE EXTREMES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER DISABLED ACCESSIBLE LAVATORIES AND SINKS.

3.3 FIXTURE INSTALLATION

- A. FLOOR DRAINS OR FLOOR SINKS: SHALL BE PLACED PARALLEL TO ROOM SURFACES, SET LEVEL, FLUSH WITH FLOOR. AND ADJUSTED TO PROPER HEIGHT TO DRAIN. COVER OPENINGS DURING CONSTRUCTION TO KEEP ALL
- FOREIGN MATTER OUT OF DRAIN LINE. B. OTHER CONNECTIONS: ROUGH-IN AND CONNECTION FOR TRIM OR FIXTURES SUPPLIED BY OTHERS SHALL BE INCLUDED IN THIS SPECIFICATION SECTION.

3.4 EQUIPMENT INSTALLATION

- A. GENERAL: IT SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT TO INSURE THAT NO WORK DONE UNDER OTHER SPECIFICATION SECTIONS SHALL IN ANY WAY BLOCK, OR OTHERWISE HINDER THE EQUIPMENT. ALL
- EQUIPMENT SHALL BE SECURELY ANCHORED IN PLACE. B. CONNECTIONS TO EQUIPMENT: WHERE SIZE CHANGES ARE REQUIRED FOR CONNECTIONS TO EQUIPMENT, THEY SHALL BE MADE IMMEDIATELY ADJACENT TO THE EQUIPMENT AND, IF POSSIBLE, INSIDE THE EQUIPMENT

3.5 TEST AND ADJUSTMENT

- A. GENERAL: UNLESS OTHERWISE DIRECTED, TESTS SHALL BE WITNESSED BY A REPRESENTATIVE OF THE ENGINEER. WORK TO BE CONCEALED SHALL NOT BE ENCLOSED UNTIL PRESCRIBED TESTS ARE MADE. SHOULD ANY WORK BE ENCLOSED BEFORE SUCH TESTS, THE CONTRACTOR SHALL, AT HIS EXPENSE, UNCOVER, TEST AND REPAIR ALL WORK TO ORIGINAL CONDITIONS. LEAKS AND DEFECTS SHOWN BY TESTS SHALL BE REPAIRED AND ENTIRE WORK RETESTED. TESTS MAY BE MADE IN SECTIONS, HOWEVER, ALL CONNECTIONS BETWEEN SECTIONS PREVIOUSLY TESTED AND NEW SECTION SHALL BE INCLUDED IN THE NEW TEST.
- 1. SANITARY SEWER: ALL ENDS OF THE SANITARY SEWER SYSTEM SHALL BE CAPPED AND LINES FILLED WITH WATER TO THE TOP OF THE HIGHEST VENT, 10' ABOVE GRADE MINIMUM. THIS TEST SHALL BE MADE BEFORE ANY FIXTURES ARE INSTALLED. TEST SHALL BE MAINTAINED UNTIL ALL JOINTS HAVE BEEN INSPECTED, BUT NO LESS THAN 2 HOURS 2. DRAINS (INCLUDING CONDENSATE): SIMILAR TO SANITARY SEWER.

C. PRESSURE SYSTEMS:

1. GENERAL: THERE SHALL BE NO DROP IN PRESSURE DURING TEST EXCEPT THAT DUE TO AMBIENT TEMPERATURE CHANGES. ALL COMPONENTS OF SYSTEM NOT RATED FOR TEST PRESSURE SHALL BE ISOLATED FROM SYSTEM BEFORE TEST IS MADE 2. DOMESTIC HOT AND COLD WATER: MAINTAIN 100 PSIG WATER PRESSURE FOR 4 HOURS

3.6 DISINFECTION

A. DISINFECT ALL DOMESTIC WATER PIPING SYSTEMS IN ACCORDANCE WITH AWWA STANDARD C651, "AWWA STANDARD FOR DISINFECTING WATER MAINS", AND IN ACCORDANCE WITH ADMINISTRATIVE AUTHORITY. DISINFECTION PROCESS SHALL BE PERFORMED IN COOPERATION WITH HEALTH DEPARTMENT HAVING JURISDICTION AND WITNESSED BY A REPRESENTATIVE OF THE ENGINEER. DURING PROCEDURE SIGNS SHALL BE POSTED AT EACH WATER OUTLET STATING, "CHLORINATION - DO NOT DRINK". AFTER DISINFECTION, WATER SAMPLES SHALL BE COLLECTED FOR BACTERIOLOGICAL ANALYSIS. CERTIFICATE OF BACTERIOLOGICAL PURITY SHALL BE OBTAINED AND DELIVERED TO THE OWNER THROUGH THE ENGINEER.

END OF SECTION

PLANNING - DESIGN - CONSULTIN 1508 TOLLHOUSE ROAD, SUITE '(CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

STATUS

Current Release Date 06-15-23 Planning Submittal Plan Check Submittal

REVISIONS

IDENTIFICATION

Project Coordinator Project No.

Sheet P-0.

PLUMBING SPECIFICATIONS

NET POSITIVE

■ engineers

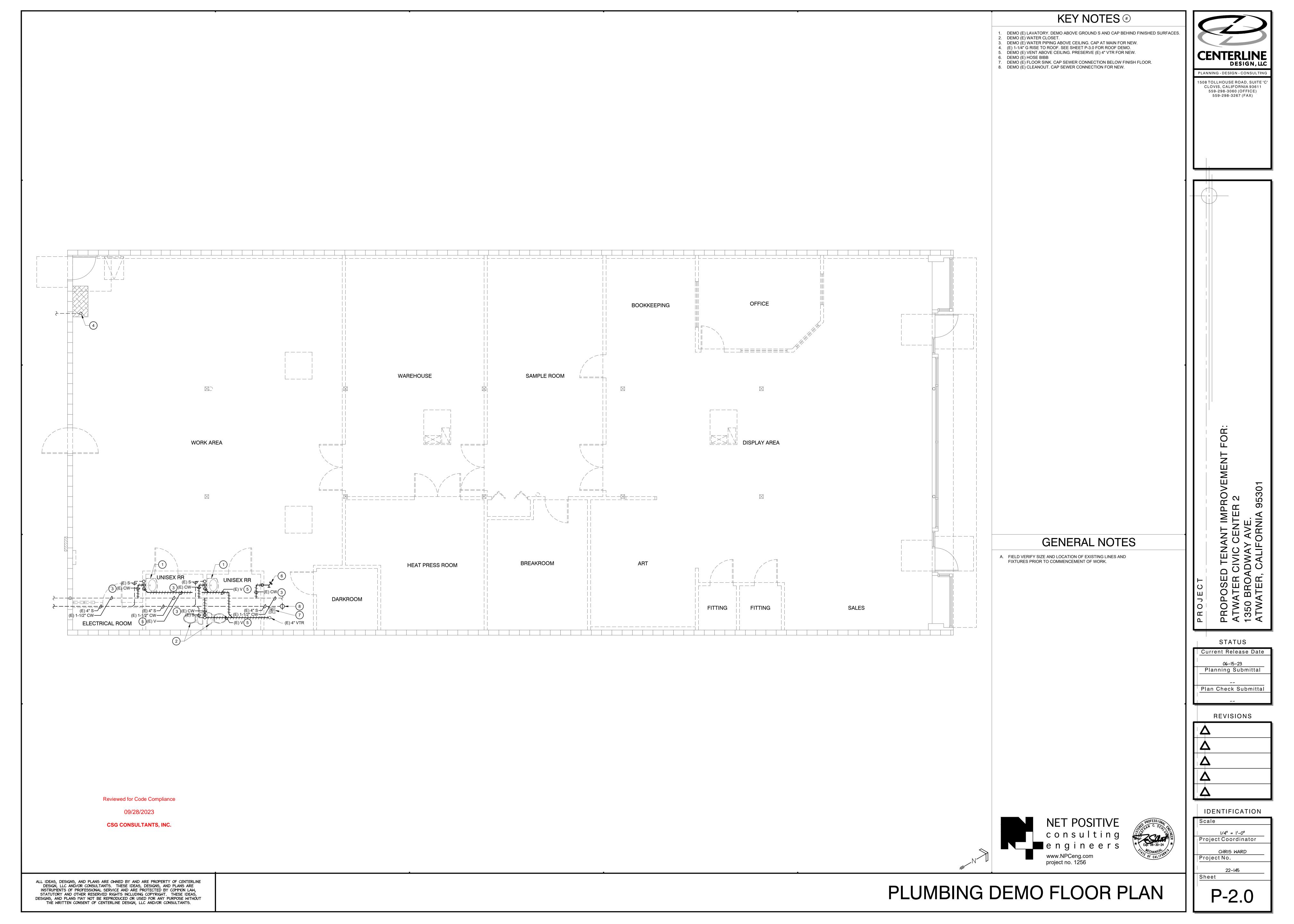
09/28/2023

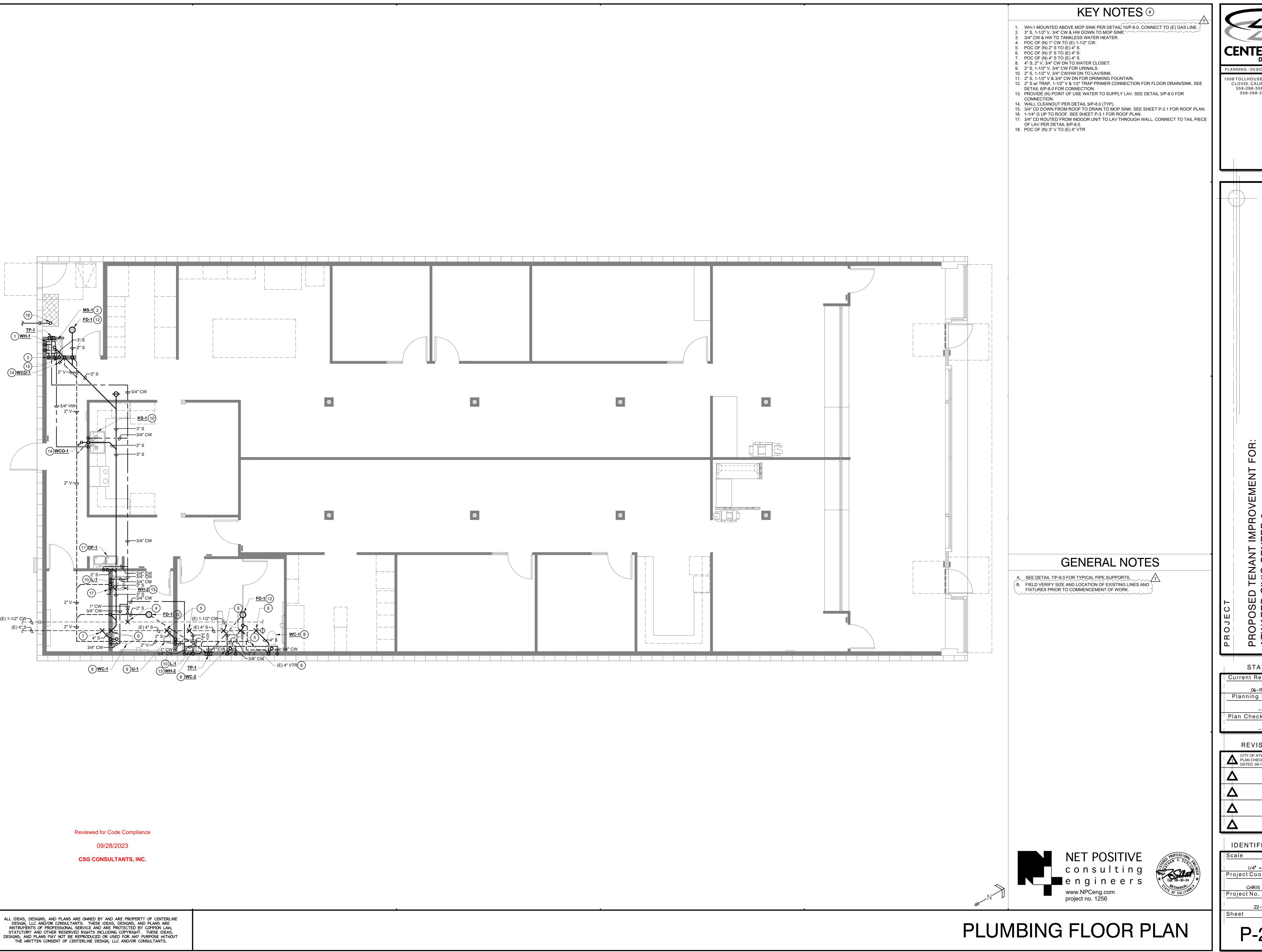
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DESIGN, LLC PLANNING - DESIGN - CONSULTING

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STATUS

Current Release Date Planning Submittal

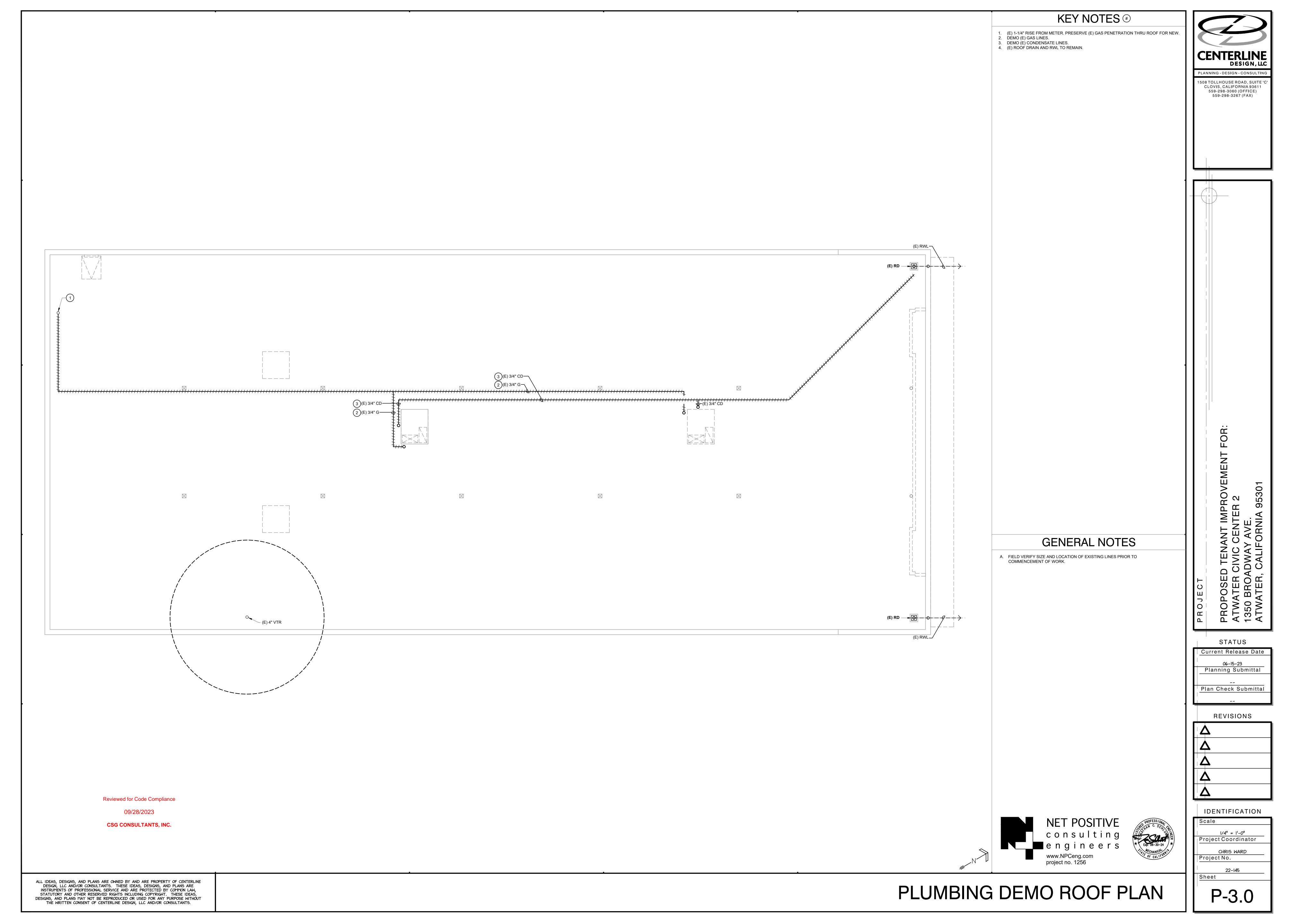
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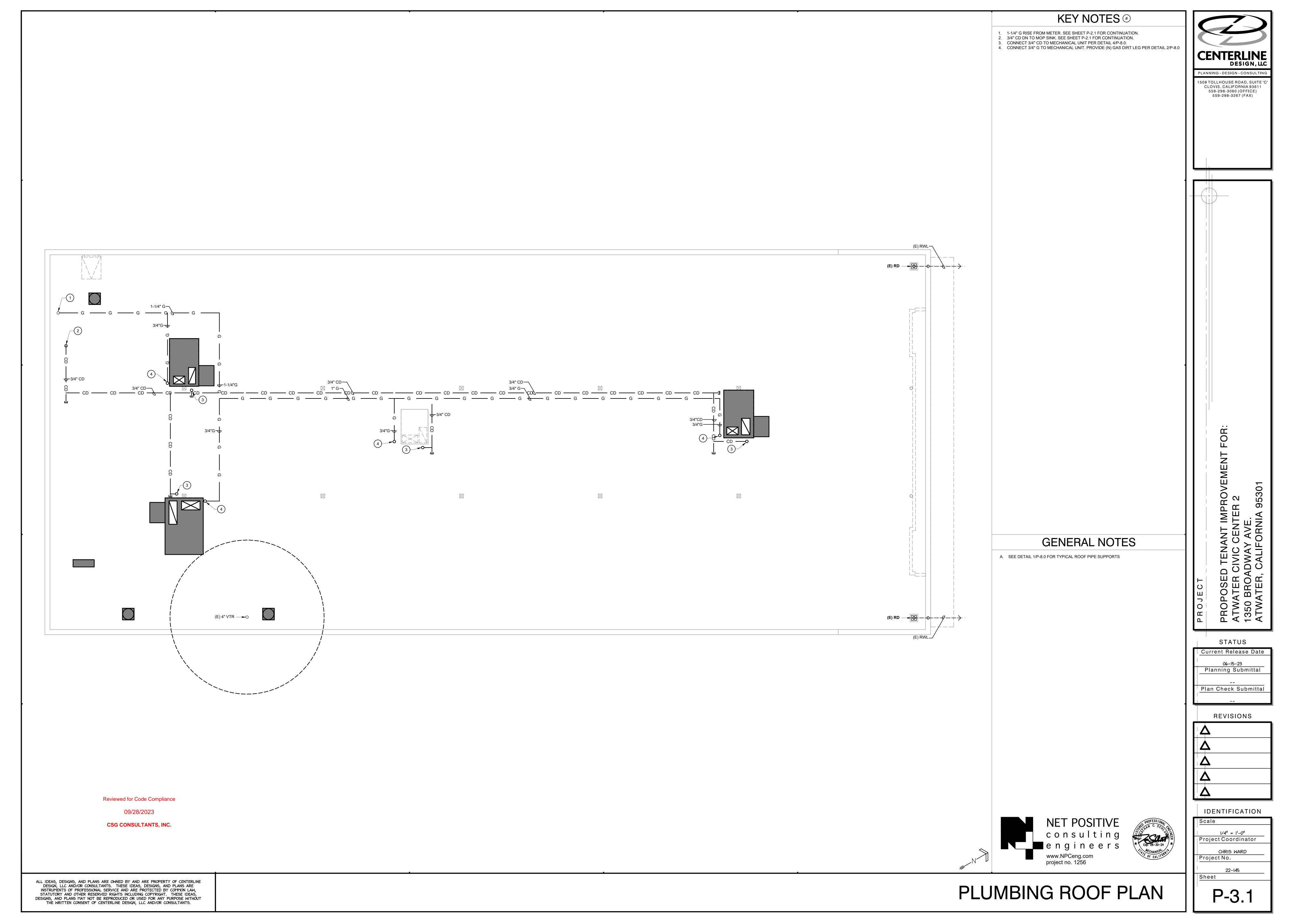
REVISIONS CITY OF ATWATER
PLAN CHECK CORRECTIONS
DATED: 09-13-23

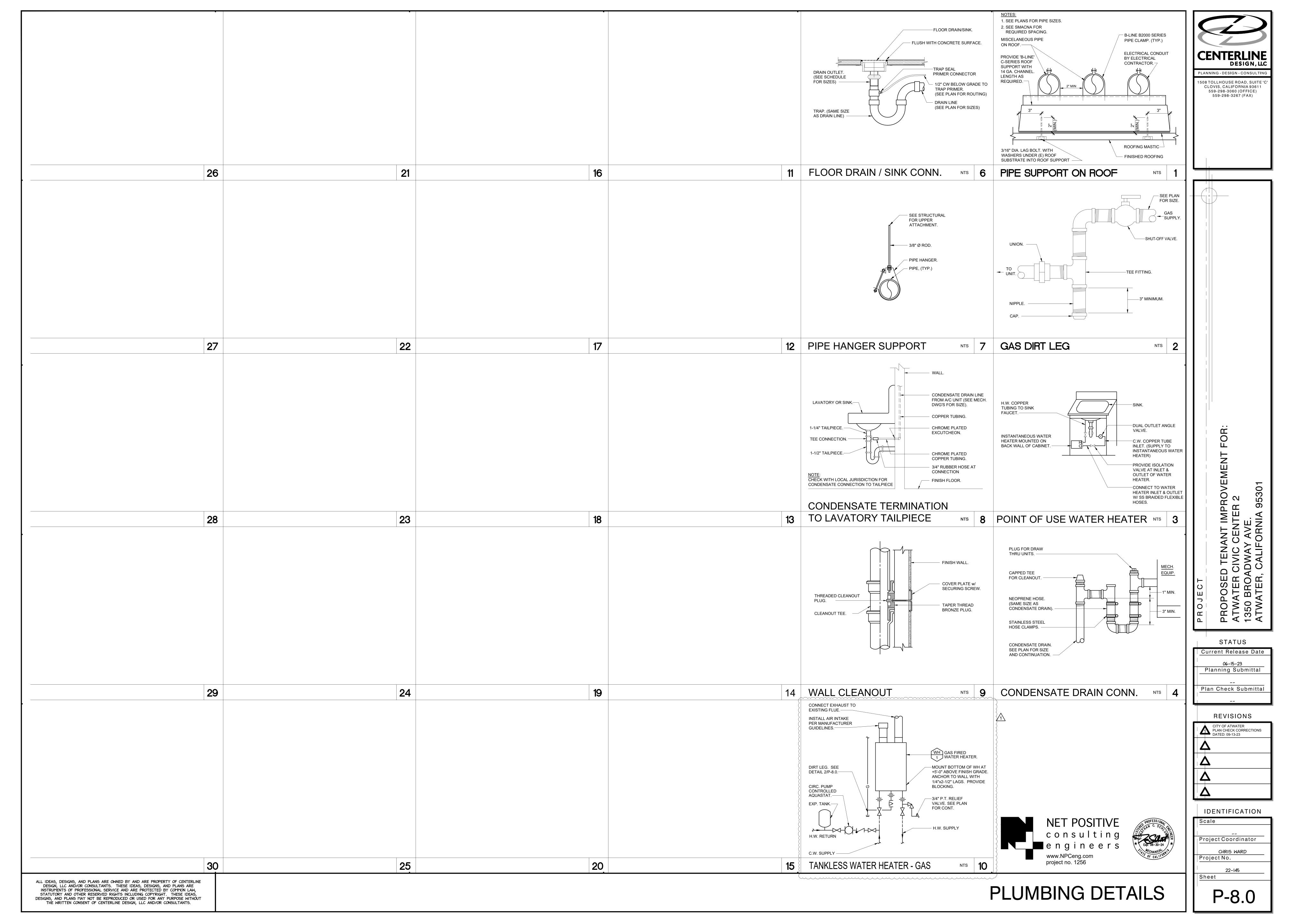
IDENTIFICATION

1/4'' = 1'-0''Project Coordinator

P-2.1







MECHANICAL SCHEDULES

DESIGNAT	ION	HC-1	HC-3	HC-4
VOLTS / PH	ASE	208 / 3	208 / 3	208 / 3
MCA / MOC	P	21 / 30	36 / 45	26 / 30
FLA		20	37	26
EER @ ARI		10.20	12.20	10.19
2	SUPPLY AIR (CFM)	1200	2400	1600
BLOWER	EXTERNAL SP (IN. WC)	0.3	0.3	0.3
BL	O.S.A. (CFM)	300	480	400
	HP / BHP	- / 0.25	- / 0.67	- / 0.59
<u></u>	NOMINAL TONS	3	6	4
Ä	TOTAL (MBH)	31.42	65.86	44.07
COOLING	SENSIBLE (MBH)	28.17	57.47	41.28
O	EADB / EAWB (°F)	83.3 / 65.9	81.8 / 65.5	83.3 / 65.9
	AMBIENT AIR (°F)	105	105	105
	INPUT CAP. (MBH)	50	55	50
HEATING	OUTPUT CAP. (MBH)	40	41	40
荆	FUEL	GAS	GAS	GAS
	AFUE (%)	81	82	81
SS.	QTY / SIZE	2 / 16"x25"x2"	4 / 16"x20"x2"	2 / 16"x25"x2"
FILTERS	EFFICIENCY	MERV-13	MERV-13	MERV-13
MANUFACT	URER	CARRIER	CARRIER	CARRIER
TYPE		ROOFTOP UNIT	ROOFTOP UNIT	ROOFTOP UNIT
MODEL NUI	MBER	48GCDJ04A2M5-3A0A0	48GCDM07A2M5-3A0A0	48GCDJ05A2M5-3A0A0
*OPER. WT	(LBS)	920	1178	967

INDOOR UNIT SCHEDULE

SUPPLY AIR (CFM)

EXTERNAL SP (IN. WC)

DESIGN O.S.A. (CFM)

MOTOR TYPE

NOMINAL TONS

SENSIBLE (MBH)

EADB / EAWB (°F)

AMBIENT AIR (°F)

COP @ 47°F

MANUFACTURER

MODEL NUMBER

OPER. WT (LBS)

DESIGNATION

VOLTS / PHASE

AMBIENT AIR (°F) MANUFACTURER

MODEL NUMBER

OPER. WT (LBS)

ACCESSORIES

LOCATION

COOLING CAPACITY (MBH)

MCA / MOCP

CAPACITY @ 47°F (MBH)

OUTDOOR UNIT SCHEDULE

ODU-1

208 / 1

13 / 15 0.25

CARRIER HEAT PUMP 38MARBQ06AA3

ROOF

63.7

REFRIGERANT TYPE

TOTAL (MBH)

IDU-1

208 / 1

POWERED BY ODU-1

POWERED BY ODU-1

15.8

335

11.19

8.02

R410A

80 / 67

95

9023.7

3.9

CARRIER HIGH WALL

40MAHBQ06XA3

22.71

DESIGNATION

VOLTS / PHASE

MCA / MOCP

EER @ ARI

IDUMEDEL	1 EANVIIGE	SCHEDULE
IPOVVEREL	, EVUADO I	SCHEDULE

DESIGNATION

HC UNIT MOUNTING	HC-1	HC-3	HC-4
VOLT / PHASE	208 / 3	208 / 3	208 / 3
MCA / MOCP	4.9 / 8.8	8.0 / 14.4	4.9 / 8.8
FLA	3.9	6.4	3.9
MANUFACTURER	MICROMETL	MICROMETL	MICROMETL
MODEL NUMBER	PECD-SRT12CB-D0DB-2LH-4	PECD-SRT12CB-D0DB-2L1-4	PECD-SRT12CB-D0DB-2LH-4
OPER. WT. (LBS)	191	191	191

GRILL	LE SCHEDULE		
MARK	DUTY	DESCRIPTION	
А	LAY-IN CEILING SUPPLY	TITUS MODEL PMC (TYPE 3) PERFORATED CORE STEEL DIFFUSER FOR LAY-IN TILE CEILING, STANDARD PERFORATED FACE, FIELD REPOSITIONABLE FIXED LOUVER CORES, SQUARE/ROUND NECK, WHITE FINISH.	
В	LAY-IN CEILING RETURN/EXHAUST	TITUS MODEL 350FL (TYPE 3) ALUMINUM RETURN/EXHAUST GRILLE FOR LAY-IN CEILING, 35° DEFLECTION, 3/4" BLADE SPACING AND PAINTABLE SURFACE FINISH FOR COLOR MATCHING WITH DUCT.	
С	SURFACE MOUNT CEILING EXHAUST	TITUS MODEL 355FL (TYPE 1) ALUMINUM GRILLE FOR SURFACE MOUNTING, 35° DEFLECTION, 1/2" BLADE SPACING, SQUARE NECK, CONCEALED FASTENERS. PROVIDE PAINTABLE SURFACE FINISH FOR COLOR MATCHING WITH ADJACENT CEILING.	
D	SURFACE MOUNT CEILING SUPPLY	TITUS MODEL TDC (TYPE 1) STEEL LOUVER DIFFUSER FOR SURFACE MOUNTING, CONCEALED FASTENERS, SQUARE OR RECTANGULAR NECK, AND NO. 26 WHITE FINISH.	

DESIGNATION DESIGNATION	N SCHEDULE EF-1	EF-2	EF-3
CFM	140	100	300
EXT. SP (IN.WC)	0.25	0.25	0.25
НР	0.02	0.011	0.042
VOLTS / PHASE	115 / 1	115 / 1	115 / 1
MOTOR RPM	1626	1492	1250
201150	_	4	

HP	0.02	0.011	0.042
VOLTS / PHASE	115 / 1	115 / 1	115 / 1
MOTOR RPM	1626	1492	1250
SONES	5	4	6
DRIVE	DIRECT	DIRECT	DIRECT
MOUNTING	ROOF	ROOF	ROOF
MANUFACTURER	LOREN COOK	LOREN COOK	LOREN COOK
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	70 ACRUH	70 ACRUH	90 ACRUH
CONTROL	NOTE 1	NOTE 1	NOTE 1, 2
SERVICE ROOM #	108, 109	113	112
OPER. WT. (LBS)	12	12	13

^{1.} PROVIDE WITH EC SPEED CONTROLLER.

ACCESSORIES

Reviewed for Code Compliance

09/28/2023

CSG CONSULTANTS, INC.

GENERAL NOTES

- 1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
- 2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
- 3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- 4. PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE,
- ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES. 5. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN

ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND

- 6. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2022 CMC. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8, 120.3, AND 120.4 OF THE 2022 CALIFORNIA ENERGY CODE.
- 7. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.

CHAPTER 6 OF THE 2022 CMC.

- 8. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH CMC LATEST EDITION, CHAPTER 6 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- 9. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER
- 10. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS (SUPPLY, RETURN, OSA AND EXHAUST) FOR SYSTEM BALANCING.
- 11. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED IN THE PROJECT MANUAL.
- 12. ALL AIR SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO MEET THE REQUIRED FLOW. TAB METHODOLOGY SHALL BE SUBMITTED TO OWNER REPRESENTATIVE PRIOR TO IMPLEMENTATION AND IN ACCORDANCE WITH PROJECT SEQUENCING.
- 13. LEAN CONCRETE SHALL BE USED AS BACK FILL WHERE UTILITY TRENCHES EXTEND FROM THE EXTERIOR TO THE INTERIOR LIMITS OF THE BUILDING. LEAN CONCRETE SHALL EXTEND A MINIMUM DISTANCE OF TWO (2) FEET LATERALLY ON EACH SIDE OF THE EXTERIOR BUILDING LINE AND A MINIMUM OF SIX (6) INCHES ABOVE FOOTING PENETRATION.

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
	AIR CONDITIONING	AC
	AIR FLOW STATION AIR HANDLER UNIT	AFS AHU
	ANALOG INPUT	Al
	ANALOG OUTPUT	AO
\$	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT BACKDRAFT DAMPER	BDD
	BELOW FINISH CEILING	BFC
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	BLIND FLANGE	BLF
	BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HOUR	BTU
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
Ģ.	CENTER LINE	
	CONTINUATION CURIO FEET OF AIR REP MINISTE	CONT
	CUBIC FEET OF AIR PER MINUTE CURRENT SENSOR	CFM CS
Ø	DIAMETER	DIA
	DIFFERENTIAL PRESSURE SWITCH	DPS
	DIGITAL INPUT	DI
	DIGITAL OUTPUT	DO
	DOWN	DN
	DRAWING ELECTRICAL	DWG
	ELBOW	ELL
	EXHAUST	EXH
	EXHAUST AIR	EA
	EXHAUST FAN	EF
	EXISTING FEET	(E)
	FLOOR	FLR
	FLOW LINE	FL
	FLOW SWITCH	FS
	GAUGE	GA GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	INSIDE DIAMETER	ID
	MAKE-UP AIR UNIT	MAU
	MAXIMUM	MAX
	NEW	(N)
	NOT IN CONTRACT	NIC
	NOT TO SCALE	NTS
#	NUMBER OUTSIDE AIR	NO. OSA
	OUTSIDE AIR OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE PRESSURE STATION	PVC PS
	RETURN AIR	RA
	ROOM	RM
	SUPPLY AIR	SA
	SPECIFICATION SOLVABLE ELECT	SPEC
	SQUARE FEET STAINLESS STEEL	SQ FT SS
	TEMPERATURE	TEMP
	TEMPERATURE SENSOR	TS
	THROUGH	THRU
	TYPICAL	(TYP)
	VARIABLE REFRIGERANT FLOW VARIABLE AIR VOLUME UNIT	VRF VAV
	WITH	W/
	WITHOUT	W/O
A	COMPRESSED AIR	А
—CHWR—	CHILLED WATER SUPPLY	CHWS
CHWR—	CHILLED WATER RETURN CONDENSER WATER SUPPLY	CHWR
CWR	CONDENSER WATER SUFFLY CONDENSER WATER RETURN	CWR
cw	DOMESTIC COLD WATER	
—HWS —	HOT WATER SUPPLY	HWS
— HWR —	HOT WATER RETURN	HWR
	REFRIGERANT DISCHARGE REFRIGERANT LIQUID	RD RL
RS	REFRIGERANT SUCTION	RS
s	STEAM SUPPLY	S
——CR——	STEAM CONDENSATE RETURN	CR
——CD——	CONDENSATE DRAIN	CD

	PIPING CAP	
	EXISTING (DESIGNATED)	
<i>††††</i>	REMOVE / DEMO EXISTING (DESIGNATED)	
<u></u>	DIRECTION OF FLOW	
<u> </u>	SUPPLY AIR	
	RETURN AIR	
<u> </u>	EXHAUST AIR	
	PIPE/DUCT TURN DOWN PIPE/DUCT TURN UP	
<u> </u>		
///////	ROUND DUCT (SMALLER THAN 10"Ø) ROUND FLEXIBLE DUCT	
	RECTANGULAR OR ROUND DUCT (SIZE PER PLAN)	
├	EXISTING DUCT	
	(DESIGNATED) REMOVE/ DEMO EXISTING DUCT	
ZZZZZ	(DESIGNATED)	
	DUCT WITH ACOUSTIC LINING	
×	SUPPLY AIR DUCT DROP	
	SUPPLY AIR DUCT RISE	
	RETURN AIR DUCT DROP	
	RETURN AIR DUCT RISE	
	EXHAUST AIR DUCT DROP	
	EXHAUST AIR DUCT RISE	
	OUTSIDE AIR DUCT DROP	
	OUTSIDE AIR DUCT RISE	
	TURNING VANES	
	EXTRACTOR	
©	CO ₂ SENSOR	
	DUCT DETECTOR	
(HD)	HEAT DETECTOR	
(SD)	SMOKE DETECTOR	
<u> </u>	MOTORIZED DAMPER	
	FIRE DAMPER W/MOTORIZED RESET	
•	AND ACCESS DOOR	
VVVV -OR- ■	FIRE/SMOKE DAMPER WITH ACCESS PANEL	
	VOLUME CONTROL DAMPER WITH LOCKING	
	QUADRANT	
<u></u>	REMOTE T'STAT WITH SENSOR IN DUCT	
T	THERMOSTAT; THERMOSTAT LABEL EXAMPLE: THERMOSTAT FOR AC-1	
AC-1		
*	POINT OF CONNECTION TO EXISTING	
	BYPASS TIMER	
Image: section of the property o	THERMOMETER	
9	PRESSURE GAGE	
•	SECURITY BARS	
	PETE'S PLUG	
	BALANCING COCK	
——————————————————————————————————————	BALL VALVE	
	BUTTERFLY VALVE	
	CHECK VALVE	
· ·	CONCENTRIC REDUCER	
	TWO-WAY CONTROL VALVE	_
	FLOW SWITCH	
	FLEXIBLE CONNECTION	
	GATE VALVE	
	GLOBE VALVE	_
	INSTRUMENT WELL	
	PLUG VALVE	
	PRESSURE RELIEF VALVE	
	"Y" TYPE STRAINER	
<u> </u>	UNION	
111		
<u> </u>	KEYNOTE	
A 8"x8" 100 CFM	NEW GRILLE TAG EXAMPLE: GRILLE MARK A	
TOO OF IVI	NECK SIZE: 8"x8" / AIRFLOW: 100 CFM	
EF	NEW EQUIPMENT TAG	
<u>8</u>	EXAMPLE: DESCRIPTION EF, MARK NUMBER 8	
2	DETAIL DEFEDENCE	
M202	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET M202	
		I
3	SECTION REFERENCE	

SHEET INDEX

M-0.1 MECHANICAL SPECIFICATIONS

M-3.0 MECHANICAL DEMO ROOF PLAN

M-2.1 MECHANICAL FLOOR PLAN

M-8.0 MECHANICAL DETAILS

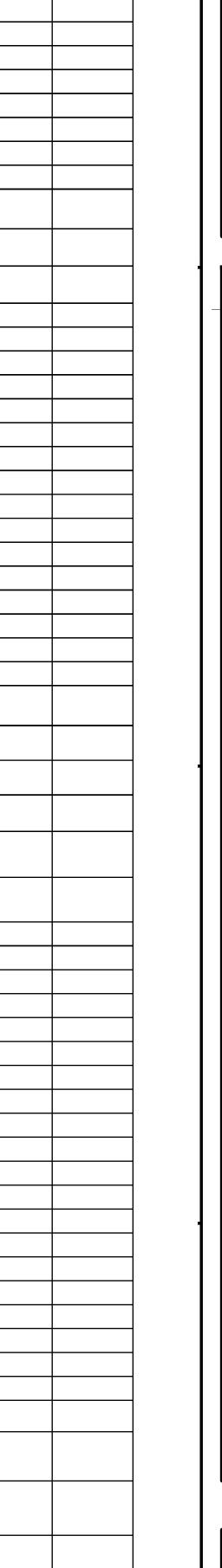
M-9.0 TITLE 24 DOCUMENTATION

M-9.1 TITLE 24 DOCUMENTATION

M-0.0 MECHANICAL SCHEDULES, LEGEND, AND GENERAL NOTES

NET POSITIVE

engineers engineers



Current Release Date

STATUS

PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE '0

CLOVIS, CALIFORNIA 93611

559-298-3060 (OFFICE)

559-298-3267 (FAX)

Planning Submittal Plan Check Submittal

REVISIONS

IDENTIFICATION

Project Coordinator Project No.

Sheet M-0.0

THE WRITTEN CONSENT OF CENTERLINE DESIGN, LLC AND/OR CONSULTANTS.

^{2.} INTERLOCK WITH KITCHEN EQUIPMENT.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS DIVISION.
- 1.2 CODES AND REGULATIONS: ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:
- A. 2022 CALIFORNIA BUILDING CODE
- B. 2022 CALIFORNIA MECHANICAL CODE
- C. 2022 CALIFORNIA PLUMBING CODE D. CALIFORNIA CODE OF REGULATIONS, TITLE 8, INDUSTRIAL RELATIONS
- E. CALIFORNIA CODE OF REGULATIONS, TITLE 24, BUILDING STANDARDS
- 1.3 SCOPE: PROVIDE ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR COMPLETE, LAWFUL AND OPERATING SYSTEMS AS SHOWN OR NOTED ON THE DRAWINGS OR AS SPECIFIED HERE. THE WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:
- A. AIR DISTRIBUTION SYSTEM.
- B. ALL EQUIPMENT AS SHOWN OR NOTED ON THE DRAWINGS OR AS SPECIFIED.
- C. SYSTEM ENERGY BALANCE. D. TEMPERATURE CONTROL SYSTEM.

PART 2 - PRODUCTS

2.1 DUCTWORK MATERIALS

- A. GENERAL: ALL DUCTWORK MATERIALS SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM E 84 AND UL 723 NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50. SHALL COMPLY WITH 1994 UMC STANDARD 6-1.
- B. METAL DUCTWORK: METAL DUCTWORK SHALL BE GALVANIZED SHEET STEEL, LOCK FORMING QUALITY, ASTM A 653, WITH GAGE AND CONSTRUCTION TO MATCH SMACNA STANDARD FOR PRESSURE REQUIRED (26 GAGE
- C. FLEXIBLE DUCTWORK: INSULATED FLEXIBLE DUCTWORK. 1 LB/FT3 GLASS FIBER INSULATION, 1" THICK. R-6. SEAMLESS VAPOR BARRIER JACKET. DUCT SHALL COMPLY WITH NFPA 90A. CONTINUOUS INTERNAL LINER BONDED TO GALVANIZED STEEL WIRE HELIX. DUCT SHALL BE CAPABLE OF CONTINUOUS OPERATION AT 1 1/2"

OF WATER STATIC PRESSURE AND 4,000 FT/MIN AIR VELOCITY. GENFLEX, WIREMOLD.

D. DUCT SEALANTS: ALL JOINTS EXPOSED TO WEATHER: SEALANT SHALL BE HARDCAST CCWI-181. JOINTS NOT EXPOSED TO WEATHER: WATER-BASED DUCT SEALANT, WITHOUT SUBSTITUTION. 'UNI-MASTIC 181' BY MCGILL AIRSEAL OR DESIGN POLYMETRICS DP-1010.

2.2 AIR TERMINALS AND DUCT FITTINGS

- A. BRANCH DUCT VOLUME DAMPER: VOLUME CONTROL DAMPER (VCD) IN RECTANGULAR DUCTS SHALL BE AS FOLLOWS: OPPOSED BLADE, 6" MAXIMUM BLADE WIDTH, 16 GAGE BLADE, 48" MAXIMUM LENGTH, NYLON OR OIL IMPREGNATED BRONZE BEARINGS, 1/2" SHAFT, 16 GAGE CHANNEL FRAME, ACTUATING ROD AND LINKAGE OUT OF AIR STREAM. VCD IN ROUND DUCT SHALL BE AS FOLLOWS: DAMPER BLADE FULL HEIGHT OF BRANCH AND 1" LESS THAN BRANCH WIDTH. ALL BRANCH DAMPERS SHALL HAVE REGULATOR WITH STAMPED STEEL HANDLE, SPRING LOADED SHAFT NUT, CAST BODY AND SERRATED SELF LOCKING DIE CAST CORE. SECURE A 12" LENGTH OF ORANGE OR YELLOW COLORED PLASTIC RIBBON TO HANDLE FOR EASE OF LOCATION. WHERE RECTANGULAR OR ROUND DUCTWORK IS INSULATED, PROVIDE ELEVATED DIAL REGULATOR. VENTLOK 641 (WITH 607 END BEARING FOR ROUND DUCTS) FOR NON-INSULATED DUCTS.
- B. TURNING VANES: DOUBLE WALL, HOLLOW METAL, AIR FOIL SHAPE. SPACING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AERO DYNE HEP.
- C. FLEXIBLE CONNECTION: UL LISTED NEOPRENE COATED 30 OUNCE FIBERGLASS CLOTH. 3" METAL, 3" FABRIC,
- D. BACK DRAFT DAMPER: ALUMINUM INTERLINKED BLADES. ALUMINUM OR GALVANIZED STEEL FRAME. BRONZE BEARINGS. COUNTER BALANCED FOR FULL CLOSING ON EXHAUST SYSTEMS. COUNTER BALANCED FOR FULL OPEN AT 0.05" W.C PRESSURE ON RELIEF SYSTEMS. ARROW, WONDER METAL.

2.3 DUCTWORK INSULATION MATERIALS

- A. GENERAL: ALL DUCTWORK INSULATION MATERIALS SHALL HAVE FIRE AND SMOKE HAZARD RATINGS AS TESTED UNDER ASTM E 84 AND UL 723 NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF
- B. FIBERGLASS BLANKET: THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.27 BTU-IN/HR-FT2-°F AT A MEAN TEMPERATURE OF 75°F. 3/4 LB/FT3, 1-1/2" THICK WHERE DUCTWORK IS WITHIN THE BUILDING THERMAL INSULATION ENVELOPE. 1 LB/FT3, 1-1/2" THICK WHERE DUCTWORK IS OUTSIDE THE BUILDING THERMAL INSULATION ENVELOPE, BUT BELOW THE ROOF. FACED WITH GLASS REINFORCED FOIL LAMINATED TO KRAFT PAPER. CERTAINTEED, KNAUF, JOHNS-MANVILLE, OWENS_CORNING.
- C. ACOUSTIC LINING: GLASS FIBER. THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.28 BTU-IN/HR-FT2-°F AT A MEAN TEMPERATURE OF 75°F. ONE SIDE COATED TO PREVENT FIBER EROSION UP TO 6000 FT/MIN. AVERAGE NOISE REDUCTION COEFFICIENT OF 0.80. 1.5 LB/FT3 DENSITY. 1" THICK WHERE DUCTWORK IS WITHIN THE BUILDING THERMAL INSULATION ENVELOPE. 1_1/2" THICK WHERE DUCTWORK IS OUTSIDE THE BUILDING THERMAL INSULATION ENVELOPE, BUT BELOW THE ROOF. 2" THICK WHERE DUCTWORK IS OUTSIDE AND/OR ABOVE THE ROOF. CERTAINTEED, KNAUF, JOHNS-MANVILLE, OWENS CORNING.
- D. BONDING ADHESIVE: FOSTERS 85-60.

2.3 EQUIPMENT

- A. GENERAL REQUIREMENTS:
- 1. CAPACITY: CAPACITIES SHALL BE IN ACCORDANCE WITH SCHEDULES SHOWN ON DRAWINGS. CAPACITIES
- 2. DIMENSIONS: EQUIPMENT MUST CONFORM TO SPACE REQUIREMENTS AND LIMITATIONS AS INDICATED ON DRAWINGS AND AS REQUIRED FOR OPERATION AND MAINTENANCE.

a. GAS: GAS BURNING EQUIPMENT SHALL BE FURNISHED WITH 100% SAFETY GAS SHUT_OFF,

- INTERMITTENT PILOT IGNITION, AND BE APPROVED BY AGA, EXCEPT THAT BOILERS SHALL BE AGA APPROVED OR UL LISTED.
- b. ELECTRICAL: ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA STANDARDS AND UL OR ETL LISTED WHERE APPLICABLE STANDARDS HAVE BEEN ESTABLISHED.
- 4. PIPING: EACH ITEM OR ASSEMBLY OF ITEMS SHALL BE FURNISHED COMPLETELY PIPED FOR CONNECTION

TO SERVICES. CONTROL VALVES AND DEVICES SHALL BE PROVIDED.

- a. GENERAL: EACH ITEM OR ASSEMBLY OF ITEMS SHALL BE FURNISHED COMPLETELY WIRED TO INDIVIDUAL TERMINAL BLOCKS FOR CONNECTION TO SINGLE BRANCH ELECTRICAL CIRCUIT. ALL ELECTRICAL ACCESSORIES REQUIRED BY EQUIPMENT SHALL BE FURNISHED. PROVIDE TERMINAL
- BLOCKS FOR CONTROLS AND INTERLOCKS NOT INCLUDED IN EQUIPMENT PACKAGE. WIRING: CONDUCTORS, CONDUIT, AND WIRING SHALL BE IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS. INDIVIDUAL ITEMS WITHIN ASSEMBLY SHALL BE SEPARATELY PROTECTED WITH DEAD FRONT, FUSED DISCONNECT, FUSE BLOCK, OR CIRCUIT BREAKER FOR EACH UNGROUNDED CONDUCTOR, ALL ACCESSIBLE ON OPERATING SIDE OF EQUIPMENT. SWITCHES, CONTACTS AND
- OTHER DEVICES SHALL BE IN UNGROUNDED CONDUCTORS. c. MOTORS: SHALL BE RATED, CONSTRUCTED AND APPLIED IN ACCORDANCE WITH NEMA AND ANSI STANDARDS WITHOUT USING SERVICE FACTOR. SINGLE PHASE MOTOR SHALL BE OF TYPE TO SUIT APPLICATION. THREE_PHASE MOTORS SHALL BE OPEN DRIP PROOF, NEMA B DESIGN ON PUMPS AND FANS, NEMA C ON RECIPROCATING EQUIPMENT, SEALED BALL BEARING, THREE PHASE INDUCTION UNLESS OTHERWISE NOTED. DESIGN SHALL LIMIT STARTING INRUSH CURRENT AND RUNNING CURRENT TO VALUES SHOWN ON DRAWINGS. MOTORS FOR USE WITH VFD'S AND MOTORS 1-1/2 HORSEPOWER AND LARGER SHALL BE THE PREMIUM EFFICIENCY TYPE, TESTED ACCORDING TO IEEE STANDARD 112, METHOD B. MAGNETEK E-PLUS III. MOTORS EXPOSED TO WEATHER SHALL BE TEFC.
- MOTORS IN A FAN AIR STREAM SHALL BE TEFC OR TEAO. d. CONTROL VOLTAGE: EQUIPMENT CONNECTED TO GREATER THAN 240 VOLTS SHALL BE PROVIDED WITH 120 VOLT CONTROL CIRCUIT FROM INTEGRAL PROTECTED TRANSFORMER IF SEPARATE SOURCE IS NOT INDICATED ON PLANS. 240 VOLT CONTROL IS ACCEPTABLE IF CONFINED WITHIN CONTROL PANEL.
- e. SUBMITTALS: INCLUDED IN SHOP DRAWINGS SHALL BE INTERNAL WIRING DIAGRAMS AND MANUFACTURER'S RECOMMENDED EXTERNAL WIRING.
- a. FAN CURVES: PERFORMANCE CURVES SHALL BE SUBMITTED FOR ALL UNITS OF 3000 CFM OR GREATER. OPERATING POINT FOR FORWARD CURVED FANS SHALL BE FROM POINT OF MAXIMUM EFFICIENCY TOWARD INCREASED CFM LIMITED BY HORSEPOWER SCHEDULED, OPERATING POINT FOR BACKWARD INCLINED FANS SHALL BE SELECTED NEAR POINT OF MAXIMUM EFFICIENCY. CURVES SHALL PLOT CFM VERSES STATIC PRESSURE WITH CONSTANT BRAKE HORSEPOWER, RPM AND EFFICIENCY LINES.
- STATIC PRESSURE: UNLESS OTHERWISE NOTED, PRESSURE SCHEDULED AS EXTERNAL STATIC PRESSURE (ESP) INCLUDES ALL DUCTWORK AND ACCESSORY LOSSES EXTERNAL TO THE UNIT HOUSING. UNLESS OTHERWISE NOTED, PRESSURE SCHEDULED AS TOTAL STATIC PRESSURE INCLUDES ALL DUCTWORK, FILTER, COIL, CABINET, DAMPER AND OTHER ACCESSORY LOSSES. THE ALLOWANCE FOR FILTER LOSSES IS 0.3" WC, UNLESS OTHERWISE NOTED. SUBMIT ITEMIZED STATIC PRESSURE LOSSES FOR ALL COMPONENTS.
- 7. SCREENS: ALL DUCT OR LOUVER OPENINGS TO THE OUTSIDE SHALL BE COVERED WITH 1/2", 16-GAGE, GALVANIZED WIRE MESH SCREEN.
- B. AIR CONDITIONING UNIT:
- GENERAL UNIT DESCRIPTION:

INDICATE CAUTION AREAS.

ALL IDEAS, DESIGNS, AND PLANS ARE OWNED BY AND ARE PROPERTY OF CENTERLINE DESIGN, LLC AND/OR CONSULTANTS. THESE IDEAS, DESIGNS, AND PLANS ARE

- a. UNIT(S) FURNISHED AND INSTALLED SHALL BE COMBINATION HEATING AND COOLING PACKAGED ROOFTOP(S) AS SCHEDULED ON CONTRACT DOCUMENTS AND THESE SPECIFICATIONS. COOLING CAPACITY RATINGS SHALL BE BASED ON ARI STANDARD 210. UNIT(S) SHALL CONSIST OF INSULATED WEATHER-TIGHT CASING WITH COMPRESSOR(S), AIR-COOLED CONDENSER COIL, CONDENSER FANS. EVAPORATOR COIL, RETURN-AIR FILTERS, SUPPLY MOTORS AND UNIT CONTROLS AND DRIVES.
- b. UNIT(S) SHALL BE 100% FACTORY RUN TESTED AND FULLY CHARGED WITH R-410A. c. UNIT(S) SHALL HAVE LABELS, DECALS, AND/OR TAGS TO AID IN THE SERVICE OF THE UNIT AND

- d. UNITS SHALL BE CONVERTIBLE AIRFLOW DESIGN AS MANUFACTURED.
- e. WIRING INTERNAL TO THE UNIT SHALL BE COLORED AND NUMBERED FOR IDENTIFICATION.
- a. CABINET: GALVANIZED STEEL, PHOSPHATIZED, AND FINISHED WITH AN AIR-DRY PAINT COATING WITH REMOVABLE ACCESS PANELS. STRUCTURAL MEMBERS SHALL BE 18 GAUGE WITH ACCESS DOORS AND REMOVABLE PANELS OF MINIMUM 20 GAUGE. b. UNITS CABINET SURFACE SHALL BE TESTED 1000 HOURS IN SALT SPRAY TEST IN COMPLIANCE WITH
- c. CABINET CONSTRUCTION SHALL ALLOW FOR ALL SERVICE/ MAINTENANCE FROM ONE SIDE OF THE d. CABINET TOP COVER SHALL BE ONE PIECE CONSTRUCTION OR WHERE SEAMS EXITS, IT SHALL BE
- DOUBLE-HEMMED AND GASKET-SEALED. e. ACCESS PANELS: WATER- AND AIR-TIGHT PANELS WITH HANDLES SHALL PROVIDE ACCESS TO FILTERS, HEATING SECTION, RETURN AIR FAN SECTION, SUPPLY AIR FAN SECTION, EVAPORATOR
- COIL SECTION, AND UNIT CONTROL SECTION. f. UNITS BASE PAN SHALL HAVE A RAISED 1 1/8 INCH HIGH LIP AROUND THE SUPPLY AND RETURN
- OPENINGS FOR WATER INTEGRITY. g. INSULATION: PROVIDE 1/2 INCH THICK FIBERGLASS INSULATION WITH FOIL FACE ON ALL EXTERIOR PANELS IN CONTACT WITH THE RETURN AND CONDITIONED AIR STREAM. ALL EDGES MUST BE
- CAPTURED SO THAT THERE IS NO INSULATION EXPOSED IN THE AIR STREAM. h. PROVIDE OPENINGS EITHER ON SIDE OF UNIT OR THROUGH THE BASE FOR POWER, CONTROL, CONDENSATE, AND GAS CONNECTIONS. THE BASE OF THE UNIT SHALL HAVE 3 SIDES FOR FORKLIFT PROVISIONS. THE BASE OF THE UNITS
- SHALL HAVE RIGGING/LIFTING HOLES FOR CRANE MANEUVERING. a. GENERAL: TESTED AND RATED IN ACCORDANCE WITH ASHRAE STANDARD 52 - 92 AND SFM 12-71-1, PART 12, TITLE 24, C.C.R. FACTORY INSTALLED FILTERS SHALL MOUNT INTEGRAL WITHIN THE UNIT
- AND SHALL BE ACCESSIBLE THROUGH ACCESS PANELS. FURNISH AND INSTALL ONE COMPLETE CHANGE OF ALL FILTERS AFTER AIR BALANCE IS COMPLETED AND PRIOR TO ACCEPTANCE. PROVIDE PRESSURE DIFFERENTIAL GAGE ACROSS ALL FILTER BANKS.
- b. FILTER MEDIA: 2" MEDIA. MERV 13. CLEAN FILTER RESISTANCE 0.10" WATER AT 300 FPM. THROW-AWAY FRAME. CLASS 2. FARR. c. PRESSURE DIFFERENTIAL GAGE: DIAPHRAGM ACTUATED. 4" DIAL. ZERO ADJUSTMENT. ACCURACY +/
- 2% OF FULL SCALE. RANGE AS REQUIRED. PROVIDE STATIC PRESSURE SENSORS, TUBING AND MOUNTING BRACKETS. DWYER SERIES 2000.
- a. PROVIDE EVAPORATOR FAN SECTION WITH FORWARD CURVED, DOUBLE WIDTH, DOUBLE INLET,
- b. PROVIDE SELF-ALIGNING, GREASE LUBRICATED, BALL OR SLEEVE BEARINGS WITH PERMANENT LUBRICATION FITTINGS. c. UNLESS OTHERWISE INDICATED ON DRAWING SCHEDULE, PROVIDE UNITS WITH BELT DRIVEN
- SUPPLY FANS WITH ADJUSTABLE MOTOR SHEAVES. d. OUTDOOR AND INDOOR FAN MOTORS SHALL BE PERMANENTLY LUBRICATED AND HAVE INTERNAL THERMAL OVERLOAD PROTECTION.
- e. OUTDOOR FANS SHALL BE DIRECT DRIVE, STATICALLY AND DYNAMICALLY BALANCED, DRAW THROUGH IN THE VERTICAL DISCHARGE POSITION.
- f. PROVIDE SHAFTS CONSTRUCTED OF SOLID HOT ROLLED STEEL, GROUND AND POLISHED, WITH KEY-WAY, AND PROTECTIVELY COATED WITH LUBRICATING OIL.

FANS AND MOTORS

- a. COMPLETELY ASSEMBLED AND FACTORY INSTALLED HEATING SYSTEM SHALL BE INTEGRAL TO UNIT, UL OR CSA APPROVED SPECIFICALLY FOR OUTDOOR APPLICATIONS FOR USE DOWNSTREAM FROM REFRIGERANT COOLING COILS. THREADED CONNECTION WITH PLUG OR CAP PROVIDED. PROVIDE CAPABILITY FOR GAS PIPING THROUGH THE SIDE OF THE UNIT.
- b. HEATING SECTION SHALL BE FACTORY RUN TESTED PRIOR TO SHIPMENT. c. INDUCED DRAFT COMBUSTION TYPE WITH DIRECT SPARK IGNITION SYSTEM, REDUNDANT MAIN GAS
- VALVE, AND 2-STAGED HEAT. d. GAS BURNER SAFETY CONTROLS: PROVIDE SAFETY CONTROLS FOR THE PROVING OF COMBUSTION AIR PRIOR TO IGNITION, AND CONTINUOUS FLAME SUPERVISION. PROVIDE FLAME ROLLOUT
- e. INDUCED DRAFT BLOWER SHALL HAVE COMBUSTION AIR PROVING SWITCHES AND BUILT-IN THERMAL OVERLOAD PROTECTION ON FAN MOTOR.

EXCESSIVE TEMPERATURES RESULTING FROM RESTRICTED INDOOR AIRFLOW OR LOSS OF INDOOR

- f. HEAT EXCHANGER: PROVIDE TUBULAR SECTION TYPE CONSTRUCTED FROM 18-GAUGE ALUMINIZED g. BURNERS: BURNERS SHALL BE OF THE IN-SHOT TYPE CONSTRUCTED OF STAINLESS STEEL h. LIMIT CONTROLS: HIGH TEMPERATURE LIMIT CONTROLS WILL SHUT OFF GAS FLOW IN THE EVENT OF
- EVAPORATOR COIL: a. PROVIDE CONFIGURED ALUMINUM FIN SURFACE MECHANICALLY BONDED TO COPPER TUBING COIL b. PROVIDE FACTORY INSTALLED THERMAL EXPANSION VALVE (TXV) FOR EACH REFRIGERANT CIRCUIT.
- FACTORY PRESSURE TESTED AT 450 PSIG AND LEAK TESTED AT 200 PSIG. c. CAPACITY: RATINGS CERTIFIED BY ARI IN ACCORDANCE WITH ARI STANDARD 410. COOLING COIL FACE VELOCITY SHALL NOT EXCEED MANUFACTURER'S PUBLISHED RATINGS OR 600 FPM. INCLUDE
- COIL SELECTION CALCULATIONS IN SHOP DRAWINGS d. PROVIDE A REMOVABLE, REVERSIBLE, CLEANABLE DOUBLE SLOPED DRAIN PAN FOR BASE OF EVAPORATOR COIL CONSTRUCTED OF PVC.

9. CONDENSER SECTION:

- a. PROVIDE INTERNALLY FINNED SEAMLESS COPPER TUBE MECHANICALLY BONDED TO CONFIGURED ALUMINUM FINS. FACTORY PRESSURE TEST TO 450 PSIG. b. PROVIDE VERTICAL DISCHARGE, DIRECT DRIVE FANS WITH ALUMINUM BLADES. FANS SHALL BE
- STATICALLY BALANCED. MOTORS SHALL BE PERMANENTLY LUBRICATED, WITH INTEGRAL THERMAL OVERLOAD PROTECTION IN A WEATHER TIGHT CASING. c. PROVIDE FACTORY COIL GUARDS FOR CONDENSER SECTION.

- a. COMPRESSOR(S): PROVIDE SCROLL COMPRESSOR WITH DIRECT DRIVE OPERATING AT 3600 RPM. INTEGRAL CENTRIFUGAL OIL PUMP. PROVIDE SUCTION GAS COOLED MOTOR WITH WINDING TEMPERATURE LIMITS AND COMPRESSOR OVERLOADS.
- A FACTORY-AUTHORIZED SERVICE TECHNICIAN THAT SHALL ASSURE PROPER INSTALLATION AND c. PROVIDE EACH UNIT WITH ONE REFRIGERANT CIRCUIT(S) FACTORY-SUPPLIED COMPLETELY PIPED

DEGREE F. FOR FIELD-INSTALLED LOW AMBIENT ACCESSORY, THE MANUFACTURER SHALL PROVIDE

b. WHEN INDICATED ON DRAWING SCHEDULE, UNITS SHALL HAVE COOLING CAPABILITIES DOWN TO 0

- WITH LIQUID LINE FILTER-DRIER, SUCTION AND LIQUID LINE PRESSURE PORTS. 11. OUTSIDE AIR SECTION - FULLY MODULATING:
- a. PROVIDE A FULLY INTEGRATED FIELD-INSTALLED 100% MODULATING OUTSIDE AIR ECONOMIZER WITH UNIT RETURN AND BAROMETRIC RELIEF AIR DAMPERS, MINIMUM POSITION SETTING, PRESET LINKAGE, WIRING HARNESS WITH PLUG. UNIT OPERATION IS THROUGH PRIMARY TEMPERATURE CONTROLS THAT AUTOMATICALLY MODULATE DAMPERS TO MAINTAIN SPACE TEMPERATURE
- b. PROVIDE ECONOMIZER WITH DRY BULB CONTROL ONLY. c. PROVIDE ADJUSTABLE MINIMUM POSITION CONTROL LOCATED IN THE ECONOMIZER SECTION OF THE
- d. PROVIDE SPRING RETURN MOTOR FOR OUTSIDE AIR DAMPER CLOSURE DURING UNIT SHUTDOWN OR POWER INTERRUPTION.

12. SUPPLY FAN VARIABLE FREQUENCY DRIVE (WITH BYPASS): a. STANDARDS:

- THE AC DRIVE AND ALL ASSOCIATED OPTIONAL EQUIPMENT WILL BE UL LISTED ACCORDING TO POWER CONVERSATION EQUIPMENT UL 508C AND CSA CERTIFIED. THE AC DRIVE IS DESIGNED, CONSTRUCTED AND TESTED IN ACCORDANCE WITH NEMA ICS, NFPA AND IEC STANDARDS. THE DRIVE IS HOUSED IN A NEMA 1 ENCLOSURE AND IS MOUNTED INSIDE THE UNIT.
- b. DESIGN FUNCTION: THE AC DRIVE WILL CONVERT THE INPUT AC MAINS POWER TO AN ADJUSTABLE FREQUENCY AND VOLTAGE. THE INPUT POWER SECTION WILL UTILIZE A FULL WAVE BRIDGE DESIGN INCORPORATING DIODE RECTIFIERS. THE DIODE RECTIFIERS WILL CONVERT FIXED VOLTAGE AND FREQUENCY, AC LINE POWER TO FIXED DC VOLTAGE. THE INPUT POWER SECTION WILL BE INSENSITIVE TO PHASE ROTATION OF THE AC LINE. THE INVERTER OUTPUT POWER SECTION WILL CHANGE FIXED DC BUS VOLTAGE TO ADJUSTABLE FREQUENCY AC VOLTAGE. THIS SECTION WILL UTILIZE INSULATED GATE BIPOLAR TRANSISTORS (IGBTS) OR INTELLIGENT POWER MODULES (IPMS) AS REQUIRED BY THE
- THE AC DRIVE WILL BE DESIGNED AND SIZED TO OPERATE A VARIABLE TORQUE FAN OR PUMPLOAD. THE SPEED RANGE WILL BE A MINIMUM 1:3 SPEED RANGE OF 20 TO 60 HERTZ. THE AC DRIVE IS DESIGNED TO OPERATE FROM AN INPUT VOLTAGE OF 400(-15%) VAC TO 460(+15%) VAC, OR 208(-15%) VAC TO 230(+15%) VAC. THE AC DRIVE WILL OPERATE FROM AN INPUT VOLTAGE FREQUENCY RANGE FROM 50 OR 60 HZ +-5%. THE SYSTEM FREQUENCY WILL BE USER DEFINED VIA A 50/60 HZ TWO-POSITION SELECTOR SWITCH. THE DISPLACEMENT POWER FACTOR WILL NOT BE LESS THAN .95 LAGGING UNDER ANY SPEED OR LOAD CONDITION. THE EFFICIENCY OF THE AC DRIVE AT 100% SPEED AND LOAD WILL NOT BE LESS THAN 96%. THE VARIABLE TORQUE RATED AC DRIVE OVERCURRENT CAPACITY WILL BE 110% FOR 1 MINUTE. THE AC DRIVE WILL BE SIZED FOR A GIVEN MOTOR LOAD USING A RANDOMLY MODULATED 8 KHZ OUTPUT CARRIER FREQUENCY.
- UPON POWER-UP, THE AC DRIVE WILL AUTOMATICALLY TEST FOR VALID OPERATION OF MEMORY, CONTROL POWER AND THE PRE-CHARGE CIRCUIT. THE AC DRIVE WILL BE PROTECTED AGAINST OUTPUT PHASES, AND PHASE TO GROUND, ANALOG OUTPUT, AND LOGIC OUTPUT SHORT CIRCUITS. THE AC DRIVE WILL HAVE A SELECTABLE CATCH ON THE FLY FUNCTION TO ALLOW THE AC DRIVE TO CATCH A SPINNING LOAD AFTER BRIEF LOSS OF INPUT MAINS OR FAULT RESET. FOR A FAULT CONDITION OTHER THAN A GROUND FAULT, SHORT CIRCUIT OR INTERNAL FAULT, AN AUTO RESTART FUNCTION WILL PROVIDE UP TO 6 RESTART ATTEMPTS IN 30-SECOND INTERVALS. THE AC DRIVE WILL HAVE SOLID-STATE PROTECTION THAT IS UL LISTED AND MEETS UL 508C AS A CLASS 10 OVERLOAD PROTECTION AND MEETS IEC 947. THE MINIMUM ADJUSTMENT RANGE WILL BE FROM .45 TO 1.05% OF THE CURRENT OUTPUT OF THE AC DRIVE.
- THE AC DRIVE WILL HAVE A USER SELECTABLE AUTO TUNE FUNCTION TO AUTOMATICALLY SEND A SIGNAL TO THE CONNECTED MOTOR AND STORE THE RESULTING RESISTANCE DATA INTO MEMORY. THE SOFTWARE WILL HAVE A USER SELECTABLE ENERGY ECONOMY FUNCTION TO OPTIMIZE THE MOTOR EFFICIENCY BY AUTOMATICALLY ADJUSTING THE V/HZ RATIO FOR VARIABLE TORQUE LOADS. THE OPERATOR INTERFACE TERMINAL WILL OFFER THE MODIFICATION OF AC DRIVE ADJUSTMENTS VIA A TOUCH KEYPAD. ALL ELECTRICAL VALUES, CONFIGURATION PARAMETERS, I/O ASSIGNMENTS, APPLICATION AND ACTIVITY FUNCTION ACCESS, FAULTS, LOCAL CONTROL, ADJUSTMENT STORAGE, SELF-TEST AND DIAGNOSTICS WILL BE IN PLAIN ENGLISH TEXT OR CODES. THE AC DRIVE MODEL NUMBER, TORQUE TYPE, SOFTWARE REVISION NUMBER, HORSEPOWER, OUTPUT CURRENT, MOTOR FREQUENCY AND MOTOR VOLTAGE WILL ALL BE LISTED ON THE DRIVE IDENTIFICATION DISPLAY AS VIEWED BY THE USER OPTIONAL PC CONNECTION OR PROGRAMMING AND DIAGNOSTICS TERMINAL OPTIONS.
- ON UNITS WITH BYPASS, AN AC DRIVE/OFF/BYPASS HAND SELECTOR SWITCH WILL BE PROVIDED IN THE UNIT CONTROL BOX. IN DRIVE MODE SPEED REFERENCE IS PROVIDED BY A 0 TO 10 VDC ANALOG INPUT. IN BYPASS MODE, THE VFD WILL BE DISABLED AND THE UNIT SUPPLY FAN WILL OPERATE AT FULL SPEED.
- 13. OPERATING CONTROLS:

- a. PROVIDE FACTORY-WIRED ROOF TOP UNITS WITH 24-VOLT ELECTRO-MECHANICAL CONTROL CIRCUIT WITH CONTROL TRANSFORMERS, CONTACTORS PRESSURE LUGS OR TERMINAL BLOCK FOR POWER WIRING. UNITS SHALL HAVE SINGLE POINT POWER CONNECTION AS STANDARD. FIELD WIRING OF
- ZONE CONTROLS TO BE NEC CLASS II. b. PROVIDE FACTORY-INSTALLED INDOOR EVAPORATOR DEFROST CONTROL TO PREVENT
- COMPRESSOR SLUGGING BY INTERRUPTING COMPRESSOR OPERATION. c. PROVIDE AN ANTI-CYCLE TIMING AND MINIMUM ON/OFF BETWEEN STAGES TIMING IN THE
- d. ECONOMIZER PREFERRED COOLING COMPRESSOR OPERATION IS INTEGRATED WITH ECONOMIZER CYCLE TO ALLOW MECHANICAL COOLING WHEN ECONOMIZER IS NOT ADEQUATE TO SATISFY ZONE REQUIREMENTS. COMPRESSORS ARE ENABLED IF SPACE TEMPERATURE IS RECOVERING TO COOLING SETPOINT AT A RATE OF LESS THAN 0.2 DEGREES PER MINUTE. COMPRESSOR LOW AMBIENT LOCKOUT OVERRIDES THIS FUNCTION.
- 14. ROOF CURB: CONTRACTOR SHALL PROVIDE ROOF CURB, MADE OF HEAVY GAUGE WELDED STEEL WITH SUPPLY AND RETURN AIR GASKETING AND WOOD NAILER STRIPS. CURB SHALL BE SLOPED TO MATCH SLOPE OF ROOF. PROVIDE HOLD-DOWN CLIPS.

C. EXHAUST FAN:

- GENERAL: ALL EXHAUST FANS SHALL BE TESTED ACCORDING TO AMCA STANDARD 210 IN AN AMCA REGISTERED LABORATORY. FANS EXPOSED TO WEATHER SHALL HAVE VENTILATED WEATHERPROOF HOUSING OVER MOTOR AND DRIVE ASSEMBLY. REFER TO PARAGRAPH 2.3.A FOR GENERAL
- 2. ROOF FAN: MULTIVANE CENTRIFUGAL FAN. BALL BEARINGS. VIBRATION ISOLATING MOUNT. ALL ALUMINUM CONSTRUCTION WITH STEEL OR ALUMINUM WHEEL. FACTORY CURB. BACKDRAFT DAMPER.

PART 3 - EXECUTION

3.1 DUCTWORK INSTALLATION

- 1. STANDARDS: UNLESS OTHERWISE NOTED, ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CURRENT SMACNA STANDARDS. DUCTWORK SHALL BE BUILT TO A PRESSURE CLASSIFICATION EQUAL TO OR GREATER THAN THE MAXIMUM OPERATING PRESSURE AT THAT POINT IN THE DUCTWORK. A COPY OF THESE STANDARDS SHALL BE MAINTAINED AT THE JOB SITE AT ALL TIMES. DUCT WORK AND ACCESSORIES SHALL BE INSTALLED IN A MANNER TO PREVENT VIBRATION AND RATTLING.
- 2. ACCESS: PROVIDE DUCT ACCESS DOORS AS REQUIRED TO ADJUST EQUIPMENT AND DAMPERS. PROVIDE WALL OR CEILING ACCESS PANELS, OR REMOTE ACTUATORS AS REQUIRED WHERE EQUIPMENT AND DAMPERS ARE NOT OTHERWISE ACCESSIBLE. VENTLOK 666 CONCEALED REMOTE ACTUATOR WITH ZINC
- 3. FLEXIBLE CONNECTIONS: CONNECTION OF DUCTWORK TO ANY VIBRATING EQUIPMENT SHALL BE WITH 3" (MIN.) FLEXIBLE CONNECTION. INSTALL WITH AMPLE SLACK AND UNIFORM GAP. THERE SHALL BE NO METAL TO METAL CONTACT ACROSS FLEXIBLE CONNECTION. FLEXIBLE CONNECTIONS EXPOSED TO WEATHER SHALL HAVE A PROTECTIVE SHEET METAL COVER.
- 4. FLANGES AND ESCUTCHEON: WHERE DUCTWORK PENETRATES WALLS, CEILINGS, OR FLOORS, FURNISH AND INSTALL FLANGE OR ESCUTCHEON OF SAME MATERIAL AS DUCT.
- B. LOW VELOCITY-LOW PRESSURE (UP TO 2,000 FT/MIN AND UP TO 2.0 IN WATER):
- SHEET METAL DUCTWORK: a. ELLS: ELLS WITH LESS THAN STANDARD RADIUS AND SQUARE ELLS SHALL BE FITTED WITH TURNING
- b. TEES: TEES IN SUPPLY DUCTWORK SHALL BE AS DETAILED ON DRAWINGS. GRILLES OR BRANCHES IN SUPPLY DUCTWORK SHALL BE A MINIMUM OF 8 DUCT DIAMETERS DOWNSTREAM OF TEES. c. DUCT JOINTS AND SEAMS: ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT. (SEE PART 2 OF THIS
- d. DAMPERS: INSTALL VOLUME CONTROL DAMPER AND DAMPER REGULATOR IN ALL BRANCH DUCTS.
- 2. FLEXIBLE GLASS FIBER DUCTWORK: THE USE OF FLEXIBLE DUCT IS LIMITED TO THE LAST 5 FEET OF EACH BRANCH DUCT (I.E. ONE 5 FOOT SECTION OF FLEXIBLE DUCT MAY BE USED TO CONNECT THE GRILLE TO THE SHEET METAL BRANCH DUCT). NO JOINTS ARE PERMITTED IN THIS 5' LENGTH. HANGERS SHALL BE 4" WIDE METAL STRAPS SPACED TO PREVENT SAGGING, 42" SPACING MAXIMUM. INSERT 6" WIDE FIBERGLASS PAD BETWEEN DUCT AND HANGING STRAP. JOINTS SHALL BE INSTALLED WITH STAINLESS STEEL OR NYLON DRAW BANDS, DURO DYNE DYN-O-TIE. MINIMUM TURN RADIUS SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS (TURN RADIUS OF DUCT CENTERLINE NOT LESS THAN 1.5 TIMES THE DUCT DIAMETER).

3.2 AIR TERMINALS AND DUCT FITTINGS INSTALLATION

A. GENERAL: UNLESS OTHERWISE NOTED, ALL AIR TERMINALS AND DUCT FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT SMACNA STANDARDS. TERMINALS AND FITTINGS SHALL BE INSTALLED IN A MANNER TO PREVENT VIBRATION AND RATTLING. METAL SURFACES EXPOSED TO VIEW BEHIND GRILLES AND REGISTERS SHALL BE PAINTED FLAT BLACK.

3.3 DUCTWORK INSULATION INSTALLATION

- A. GENERAL: INSULATE ALL SHEET METAL SUPPLY AND RETURN DUCTWORK EXCEPT AS NOTED BELOW. ACOUSTICALLY LINE ALL EXHAUST DUCTWORK WITHIN 10 FEET OF EXHAUST FANS. INSULATION SHALL BE CONTINUOUS THROUGH WALLS AND FLOORS EXCEPT AT FIRE DAMPERS.
- B. WHERE INSULATION IS NOT REQUIRED: DO NOT INSULATE FACTORY-INSULATED DUCTS OR CASINGS, ACOUSTIC LINED DUCTS, OR EXHAUST DUCTWORK, EXCEPT AS NOTED.
- C. CONCEALED DUCTWORK: WRAP CONCEALED DUCTWORK WITH FIBERGLASS BLANKET LAPPED 2" MINIMUM. SECURE WITH STAPLES 4" ON CENTERS MAXIMUM ON STRAIGHT RUNS AND 3" MAXIMUM AT ELBOWS AND FITTINGS. INSULATION ON BOTTOM OF DUCTS WIDER THAN 36" SHALL ALSO BE SECURED WITH MECHANICAL
- D. ACOUSTIC LINING: UNLESS OTHERWISE INDICATED, ALL DUCTWORK EXPOSED TO WEATHER AND OTHER DUCTS AS INDICATED ON DRAWINGS, SHALL HAVE ACOUSTIC LINING. WHERE ACOUSTIC LINING IS INSTALLED, INCREASE EACH SHEET METAL DIMENSION TO ACCOMMODATE LINING AND MAINTAIN CLEAR INSIDE DUCT DIMENSIONS SHOWN ON DRAWINGS. APPLY LINING WITH BONDING ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALSO SECURE WITH MECHANICAL FASTENERS IN ACCORDANCE WITH SMACNA STANDARDS. SEAL EXPOSED EDGES OF LINING WITH BONDING ADHESIVE.

3.4 SYSTEM ENERGY BALANCE

FOR EACH ITEM TESTED.

- A. SCOPE: PROVIDE THE SERVICES OF AN INDEPENDENT TEST AND BALANCE AGENCY TO TEST, ADJUST AND BALANCE, RETEST AND RECORD PERFORMANCE OF THE SYSTEM TO OBTAIN DESIGN QUANTITIES AS SPECIFIED. THE AGENCY MUST PROVE THAT THEY HAVE NO AFFILIATION WITH ANY EQUIPMENT MANUFACTURER, DESIGN ENGINEER, INSTALLING CONTRACTOR, OR ANY OTHER PARTY WHICH MIGHT LEAD TO A CONFLICT OF INTEREST, IN ORDER TO PROVIDE AN UNBIASED, THIRD PARTY SYSTEM BALANCE AND
- B. QUALIFICATIONS: PRIOR TO COMMENCING WORK, THE AGENCY SHALL BE REVIEWED BY THE ENGINEER AND SHALL BE CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU. THE AGENCY SHALL PROVIDE DOCUMENTATION OF HAVING SUCCESSFULLY COMPLETED AT LEAST FIVE PROJECTS OF SIMILAR SIZE AND SCOPE.
- C. INSTRUMENTS: ALL INSTRUMENTS SHALL BE ACCURATELY CALIBRATED; CALIBRATION HISTORIES SHALL BE AVAILABLE FOR EXAMINATION. APPLICATION OF INSTRUMENTATION SHALL BE IN ACCORDANCE WITH AABC

D. SUBMITTALS: INCLUDE IN SHOP DRAWINGS COPIES OF FORMS TO BE USED FOR TESTING AND BALANCING

E. PROCEDURE GENERAL: PROCEDURE SHALL BE IN ACCORDANCE WITH ASSOCIATED AIR BALANCE COUNCIL'S "NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION TOTAL SYSTEM BALANCE", VOLUME TWO, NO. 12173, OR EQUIVALENT NEBB STANDARDS. SYSTEM SHALL BE IN FULL, CONTINUOUS OPERATION DURING TEST. BALANCED QUANTITIES SHALL BE PLUS 10%, MINUS 5% OF DESIGN QUANTITIES. ALL NAMEPLATE DATA, MANUFACTURER, MODEL AND SERIAL NUMBERS SHALL BE RECORDED

SHOWING ALL DATA WHICH IS TO BE RECORDED. THREE COPIES OF COMPLETED BALANCE REPORT SHALL BE

- F. EXTENDED WARRANTY: THE TEST AND BALANCE AGENCY SHALL INCLUDE AN EXTENDED WARRANTY OF 90 DAYS AFTER COMPLETION OF TEST AND BALANCE WORK, DURING WHICH TIME THE ENGINEER, AT HIS DISCRETION, MAY REQUEST A RECHECK OR RESETTING OF ANY ITEM OR ITEMS IN TEST REPORT. THE AGENCY SHALL PROVIDE TECHNICIANS TO ASSIST THE ENGINEER IN MAKING ANY TESTS HE MAY REQUIRE DURING THIS PERIOD OF TIME.
- G. AIR BALANCE PROCEDURE (FOR EACH AIR HANDLING SYSTEM):
- ALL AIR FILTERS SHALL BE CLEAN WHEN AIR BALANCE IS PERFORMED.
- 2. PROVIDE A SKETCH OF THE EQUIPMENT SHOWING EXACTLY WHERE ALL PRESSURE READINGS WERE
- 3. ADJUST BLOWER RPM TO DESIGN REQUIREMENTS.
- 4. RECORD MOTOR FULL LOAD AMPERES.
- 5. MAKE PITOT TUBE TRAVERSE OF MAIN SUPPLY AND RETURN DUCTS AND OBTAIN DESIGN CFM AT FANS. PROVIDE SKETCH OF READING LOCATIONS AND TABLE OF MEASURED VALUES.
- 7. RECORD FILTER QUANTITY, SIZE(S) AND PRESSURE DROP ACROSS FILTER(S) AT EACH FILTER BANK.

RECORD SYSTEM STATIC PRESSURES, INLET AND DISCHARGE.

- 8. ADJUST SYSTEM FOR DESIGN CFM RECIRCULATED AIR. 9. ADJUST SYSTEM FOR DESIGN CFM OUTSIDE AIR.
- 10. RECORD ENTERING AIR TEMPERATURES. (DB HEATING, DB AND WB COOLING.)
- 11. RECORD LEAVING AIR TEMPERATURES. (DB HEATING, DB AND WB COOLING.)
- 12. ADJUST ALL MAIN SUPPLY AND RETURN AIR DUCTS TO DESIGN CFM. 13. ADJUST ALL ZONES TO DESIGN CFM, SUPPLY AND RETURN.
- 14. ADJUST ALL DIFFUSERS, GRILLES AND REGISTERS TO PLUS 10%, MINUS 0% OF DESIGN REQUIREMENTS.
- 15. ADJUST CFM AT ALL EXHAUST FANS. RECORD APPLICABLE DATA FROM ITEMS 1 THROUGH 11 ABOVE.

- 16. EACH GRILLE, DIFFUSER AND REGISTER SHALL BE IDENTIFIED AS TO LOCATION.
- 17. VERIFY PROPER DIFFUSION PATTERN FOR ALL CEILING GRILLES AND THAT ALL SIDEWALL GRILLES ARE SET FOR 5 DEGREES UPWARD DEFLECTION UNLESS OTHERWISE NOTED. MAKE A NOTATION OF ANY THAT ARE NOT SET PROPERLY.
- 18. SIZE, TYPE AND MANUFACTURER OF DIFFUSERS, GRILLES, REGISTERS AND ALL TESTED ITEMS SHALL BE IDENTIFIED AND LISTED. MANUFACTURER'S RATINGS SHALL BE USED TO MAKE REQUIRED CALCULATIONS
- 19. READINGS AND TESTS OF DIFFUSERS, GRILLES, AND REGISTERS SHALL INCLUDE REQUIRED FPM VELOCITY AND TEST RESULTANT VELOCITY, REQUIRED CFM AND TEST RESULTANT CFM AFTER
- 20. IN COOPERATION WITH THE CONTROL MANUFACTURER'S REPRESENTATIVE, SET ADJUSTMENTS OF AUTOMATICALLY OPERATED DAMPERS TO OPERATE AS SPECIFIED. TESTING AGENCY SHALL CHECK ALL CONTROLS FOR PROPER CALIBRATIONS AND LIST ALL CONTROLS REQUIRING ADJUSTMENT BY CONTROL
- 21. ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE ADJUSTED FOR REQUIRED AIR PATTERNS AND TO
- 22. AS A PART OF THE WORK OF THIS CONTRACT, THE AIR CONDITIONING CONTRACTOR SHALL MAKE ANY CHANGES IN PULLEYS, BELTS AND DAMPERS OR THE ADDITION OF DAMPERS REQUIRED FOR CORRECT BALANCE AS RECOMMENDED BY AIR BALANCE AGENCY.

3.7 TEMPERATURE CONTROL SYSTEM

- A. SCOPE: THE CONTROL SYSTEM INCLUDES CONTROL PANELS, CONTROL DEVICES, LINE AND LOW VOLTAGE CONTROL AND INTERLOCK WIRING, CONDUIT AND RELATED EQUIPMENT AS REQUIRED FOR PROPER OPERATION OF ALL CONTROLLED SYSTEMS. CONTROL AND INTERLOCK WIRING INCLUDES WIRING TO CONTROLLERS, SWITCHES, TIMERS, RELAYS, ETC. POWER WIRING AND DISCONNECT SWITCHES ARE INCLUDED IN THE ELECTRICAL SPECIFICATIONS EXCEPT THAT POWER WIRING REQUIRED FOR CONTROL DEVICES SUCH AS THERMOSTATS, SENSORS, SECONDARY CONTROL PANELS ETC., IS INCLUDED IN THE CONTROL SYSTEM. POWER WIRING TO A CENTRAL CONTROL STATION IS INCLUDED IN THE ELECTRICAL SPECIFICATIONS AND DRAWINGS. ANY POWER WIRING REQUIRED FOR ADDITIONAL REMOTELY LOCATED CONTROL PANELS IS INCLUDED IN THE CONTROL SYSTEM.
- B. TYPE OF SYSTEM: THE CONTROL SYSTEM SHALL BE DIRECT DIGITAL

C. SYSTEM SHALL FUNCTION AS FOLLOWS:

- 1. GENERAL: ALL TIME CLOCKS, TRANSFORMERS, TERMINAL BLOCKS, RELAYS, ETC., SHALL BE MOUNTED IN A SINGLE CONTROL PANEL. PROVIDE 0-2 HOUR OVERIDE TIMER ADJACENT TO EACH ROOM THERMOSTAT TO ENERGIZE THE CONTROL CIRCUIT FOR HEATING/COOLING UNITS.
- 2. PACKAGE HEATING/COOLING UNITS (CONSTANT VOLUME): PROVIDE ROOM THERMOSTAT WITH SUBBASE HAVING FAN AUTO-ON AND HEAT-AUTO-COOL SWITCHES. ROOM THERMOSTAT SHALL CONTROL THE UNIT TO MAINTAIN 75°F (COOLING) OR 72°F (HEATING).

VARY THE AIR VOLUME OF THE SUPPLY FAN TO MAINTAIN A CONSTANT DUST PRESSURE.

- 3. PACKAGE HEATING/COOLING UNITS (VARIABLE AIR VOLUME):
- a. GENERAL: THE UNIT SHALL BE ACTIVATED BY THE DDC SYSTEM OR 0-2 HOUR BYPASS PUSH BUTTON ON ROOM SENSORS. THE UNIT SHALL BE CAPABLE OF AN ECONOMIZER CYCLE. A STATIC PRESSURE SENSOR LOCATED 2/3 OF THE DISTANCE DOWN THE SUPPLY DUCTWORK SHALL CAUSE THE VFD TO
- b. MINIMUM OUTSIDE AIR CONTROL: THE UNIT CONTROLS SHALL MODULATE THE OUTSIDE AIR DAMPERS TO MAINTAIN THE SCHEDULED MINIMUM OUTSIDE AIR (EXCEPT IN ECONOMIZER MODE) PROPORTIONAL TO THE SIGNAL USED TO CONTROL THE SUPPLY FAN SPEED. THE OUTSIDE AIR DAMPER POSITIONS SHALL BE DEVELOPED IN COORDINATION WITH THE BALANCING CONTRACTOR. ONE SET POINT SHALL BE WITH THE SUPPLY FAN VFD SETTING FOR MAXIMUM SCHEDULED AIR FLOW. THE OUTSIDE AIR DAMPERS SHALL BE ADJUSTED WITH TO PROVIDE THE MINIMUM SCHEDULED AIR FLOW WITH THE VFD AT THIS POSITION. THE SECOND SET POINT SHALL BE WITH THE SUPPLY FAN VFD SETTING FOR MINIMUM SCHEDULED AIR FLOW (APPROXIMATELY 30% OF MAXIMUM AIR FLOW). THE OUTSIDE AIR DAMPERS SHALL BE ADJUSTED TO PROVIDE THE MINIMUM SCHEDULED AIR FLOW
- WITH THE VFD AT THIS POSITION. c. HEATING: (SETPOINT 72F). ON SYSTEM STARTUP, IF THE TEMPERATURE SENSORS FOR ALL VAV/VVH BOXES ON AN AIR CONDITIONING SYSTEM CALL FOR HEATING. THE OUTSIDE AIR (OSA) DAMPER IS CLOSED AND THE FIRST STAGE HEAT IS ACTIVATED. AS THE SPACE TEMPERATURE APPROACHES SETPOINT, THE OSA AND RELIEF DAMPERS OPEN AND MODULATE TO PROVIDE MINIMUM OUTSIDE
- d. COOLING AND VITALIZATION: A TEMPERATURE SENSOR DOWNSTREAM OF THE COOLING COIL SHALL MODULATE THE SYSTEM TO MAINTAIN A DOWNSTREAM SUPPLY AIR TEMPERATURE OF 55F (ADJ.). THIS TEMPERATURE SHALL BE RESET BY THE WARMEST REPRESENTATIVE VAV/VVH BOX TEMPERATURE SENSOR. IF THE OUTSIDE AIR IS LESS THAN 55F, THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE SUPPLY AIR AT THE SET TEMPERATURE.

e. PURGE CYCLE: AT 1:00 A.M. DURING THE COOLING SEASON BETWEEN APRIL 15 AND OCTOBER 15, IF

FILTER SECTION SHALL MONITOR FAN AND FILTER STATUS AND ALARM TO THE DDC SYSTEM.

h. FAN SHUTOFF SMOKE DETECTORS: SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY AIR

THE ROOM TEMPERATURE EXCEEDS THE OUTSIDE AIR TEMPERATURE, THE UNIT SHALL RUN WITH THE OUTSIDE AIR DAMPERS 100% OPEN. THE UNIT SHALL STOP AND THE OSA DAMPERS SHALL CLOSE WHEN THE ROOM TEMPERATURE IS WITHIN 2 DEGREES OF THE OSA TEMPERATURE. f. OFF CYCLE: THE OUTSIDE AIR DAMPERS GO TO THE CLOSED POSITION AND THE FANS SHUT OFF. g. STATUS: CURRENT SENSORS AT EACH FAN AND DIFFERENTIAL PRESSURES SWITCHES ACROSS EACH

DUCTS OF AIR HANDLERS. DETECTORS SHALL SHUT DOWN UNITS WHEN SMOKE IS DETECTED AND

SIGNAL FIRE ALARM. 4. EXHAUST FANS: SEE SCHEDULE FOR CONTROL.

2. CONSTRUCTION INSPECTION:

CONSTRUCTION SITE.

- D. INSTALLATION: ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE ELECTRICAL SPECIFICATION SECTIONS. ALL ELECTRIC/ELECTRONIC SYSTEMS SHALL BE HARDWIRED IN CONDUIT. WIRING SHALL BE CONCEALED IN WALLS, ABOVE THE CEILINGS, OR BELOW GRADE UNLESS OTHERWISE NOTED. EXPOSED WIRING SHALL RUN PARALLEL TO ROOM SURFACES; LOCATION SHALL BE APPROVED BY THE ARCHITECT. NO STRUCTURAL MEMBER SHALL BE WEAKENED BY CUTTING, NOTCHING, BORING OR OTHERWISE. PROVIDE A 120 VOLT CIRCUIT FOR EACH DEVICE REQUIRING EXTERNAL POWER. DEDICATED CIRCUITS SHALL BE PROVIDED WHERE REQUIRED. ANY PENETRATIONS IN WALLS OR CEILINGS FOR SENSORS AND TUBING SUCH AS PRESSURE SENSOR TUBING, ETC. SHALL BE PROVIDED WITH ESCUTCHEONS TO MATCH THE ADJACENT FINISH TO ENSURE A NEAT APPEARANCE. ANY DEVICES OR WIRING EXPOSED TO THE WEATHER SHALL BE PROTECTED IN WEATHERPROOF ENCLOSURES SUCH AS NEMA 3R AND WEATHERPROOF CONDUIT. SET, TEST AND ADJUST THE SYSTEM FOR PROPER OPERATION.
- E. TESTING AND ACCEPTANCE: THE CONTRACTOR SHALL FURNISH A COMPLETE AND OPERATING SYSTEM. THE CONTRACTOR SHALL ALSO VERIFY, IN THE PRESENCE OF THE CERTIFIED ACCEPTANCE TESTING TECHNICIAN PROVIDER (ATTCP), THE SYSTEM ACCURACY AND PROPER FUNCTION OF EACH CONTROLLED DEVICE AND SENSOR. THE FOLLOWING ITEMS SHALL BE SUCCESSFULLY CERTIFIED BY THE ATTCP PRIOR TO ACCEPTANCE
- a. THE TECHNICIAN IS REQUIRED TO REVIEW THE CONSTRUCTION DOCUMENTS APPROVED BY THE LOCAL AHJ INCLUDING NONRESIDENTIAL CERTIFICATES OF COMPLIANCE (NRCC) AND THE NONRESIDENTIAL CERTIFICATES OF INSTALLATION (NRCI).
- ARE MADE, THE TECHNICIAN IS TO AUTHORIZE FUNCTIONAL TESTING. a. THE FUNCTIONAL TEST IS SPECIFIC TO THE EQUIPMENT TYPE AND REQUIREMENTS IN THE ENERGY CODE. ACCEPTANCE TESTING CAN BE PERFORMED BY THE INSTALLING TECHNICIAN OR A THIRD PARTY. THE ACCEPTANCE TEST RESULTS SHALL INDICATE THAT THE INSTALLED SYSTEM WAS

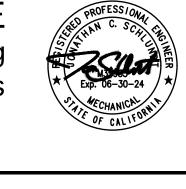
a. THE TECHNICIAN IS TO COMPARE APPROVED PLANS AND DOCUMENTS TO THE ACTUAL

END OF SECTION

OPERATIONAL AND IN COMPLIANCE WITH THE ENERGY CODE WHEN THE TECHNICIAN LEFT THE

INSTALLATIONS AND VERIFY THAT THEY ARE CONSISTENT. AFTER ALL NECESSARY MODIFICATIONS

Reviewed for Code Compliance 09/28/2023 lengineers CSG CONSULTANTS, INC.



PLANNING - DESIGN - CONSULTIN 1508 TOLLHOUSE ROAD, SUITE '(CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

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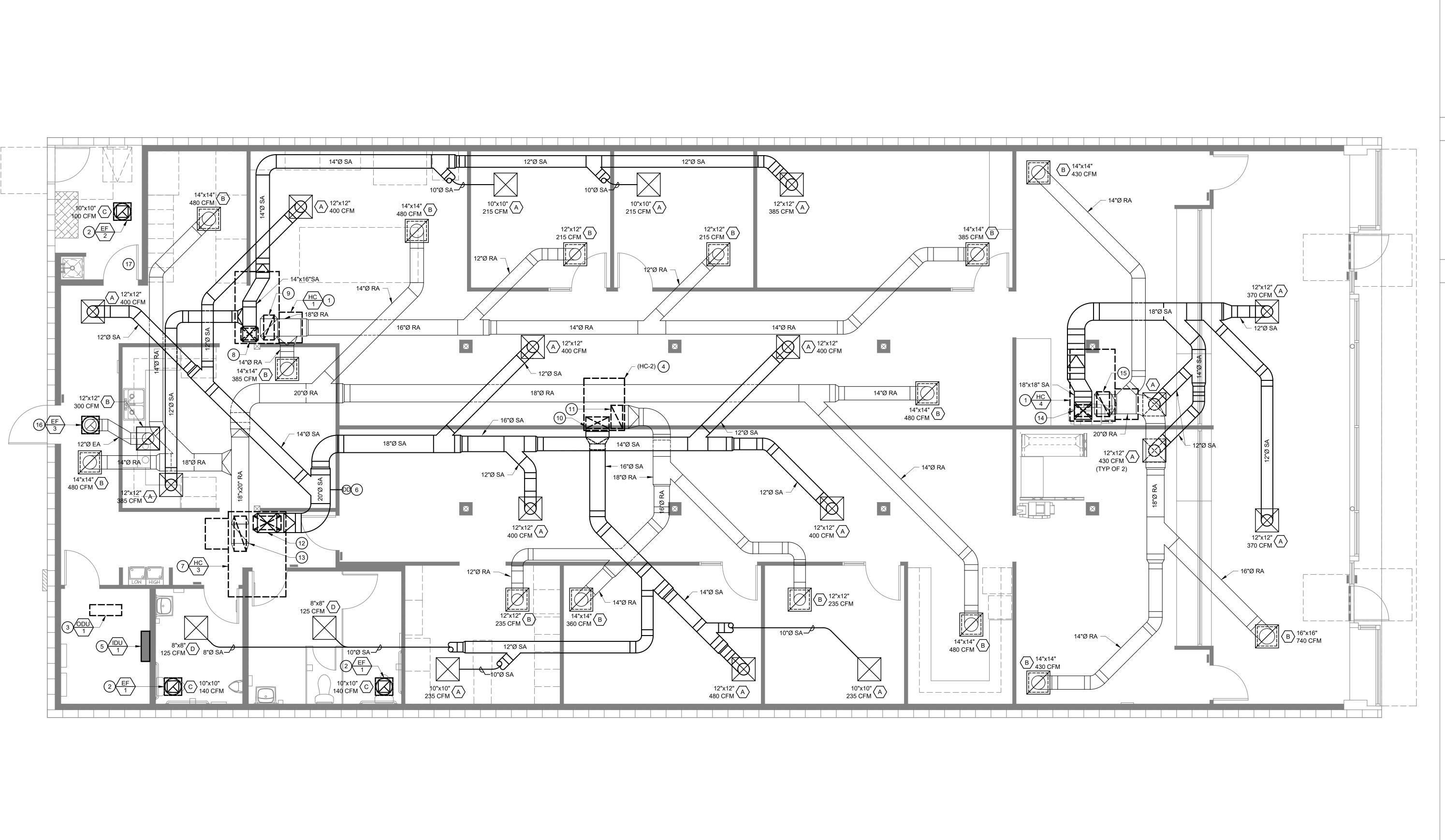
IDENTIFICATION

Project Coordinator CHRIS WARD Project No.

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MECHANICAL SPECIFICATIONS



KEY NOTES (#)

- 1. 18"x12" SA & 12"x26" RA UP TO (N) PACKAGE UNIT MOUNTED ON ROOF. SEE SHEET M-2. FOR ROOF LAYOUT. 2. 10"x10" EA UP TO (N) EXHAUST FAN MOUNTED ON ROOF. SEE SHEET M-2.1 FOR ROOF
- 3. (N) OUTDOOR UNIT MOUNTED ON ROOF. SEE SHEET M-2.1 FOR ROOF LAYOUT.
- 4. (E) PACKAGE UNIT MOUNTED ON ROOF TO REMAIN
- 5. (N) INDOOR UNIT MOUNTED HIGH ON WALL PER DETAIL 9/M-8.0. 6. SUPPLY AIR DUCT DETECTOR MOUNTED PER DETAIL 7/M-8.0.
- 7. 28"x14" SA & 12"x36" RA UP TO (N) PACKAGE UNIT MOUNTED ON ROOF. SEE SHEET M-2. FOR ROOF LAYOUT.
- 8. TRANSITION 17-3/4"x12-1/8" SA DN TO 14"x16" SA. 9. TRANSITION 10-7/8"x25-5/8" RA DN TO 18"x18" RA.
- 10. TRANSITION (E) SA DN TO 14"Ø SA. FIELD VERIFY SIZE AND LOCATION OF (E) DUCT DROPS PRIOR TO COMMENCEMENT OF WORK. 11. TRANSITION (E) RA DN TO 16"Ø RA. FIELD VERIFY SIZE AND LOCATION OF (E) DUCT
- DROPS PRIOR TO COMMENCEMENT OF WORK. 12. TRANSITION 28-3/4"x14" SA DN TO 20"x20" SA
- 13. TRANSITION 12-5/8"x36-3/8" RA DN TO 18"x20" RA. 14. TRANSITION 17-3/4"x12-1/8" SA DN TO 18"x18" SA.
- 15. TRANSITION 10-7/8"x25-5/8" RA DN TO 20"x18" RA. 16. 12"Ø EA UP TO (N) EXHAUST FAN MOUNTED ON ROOF. SEE SHEET M-2.1 FOR ROOF
- 17. UNDERCUT DOOR



1508 TOLLHOUSE ROAD, SUITE 'C

CLOVIS, CALIFORNIA 93611

559-298-3060 (OFFICE) 559-298-3267 (FAX)

GENERAL NOTES

- A. SEE DETAIL 4/M-8.0 FOR TYPICAL CEILING GRILLE INSTALLATION.
- B. SEE DETAIL 8/M-8.0 FOR TYPICAL DUCT SUPPORTS.
- C. SEE DETAIL 3/M-8.0 FOR TYPICAL BRANCH DUCT DETAIL.

VENTILATION CALCULATIONS

PER CMC 403.7

EXHAUST PER FIXTURE = 70 FIXT. QTY. = 2

EXHAUST CFM = 70 x 2 = 140 CFM

EXHAUST PER FIXTURE = 70 FIXT. QTY. = 2

EXHAUST CFM = 70 x 2 = 140 CFM

EXHAUST RATE = 0.3 CFM/ SQ. FT. SQ. FT. = 225.7 SQ. FT.

EXHAUST CFM = 67.71 CFM **PER CMC 405.4.1** EXHAUST CFM = 300CFM

EXHAUST RATE = 1 CFM/ SQ. FT.

SQ. FT. = 98.5 SQ. FT. EXHAUST CFM = 98.5 CFM ~= 100 CFM

STATUS

Current Release Date 06-15-23 Planning Submittal

Plan Check Submittal

REVISIONS

IDENTIFICATION

1/4" = 1'-0"Project Coordinator

Sheet

Project No.

M-2.1

MECHANICAL FLOOR PLAN

NET POSITIVE

consulting

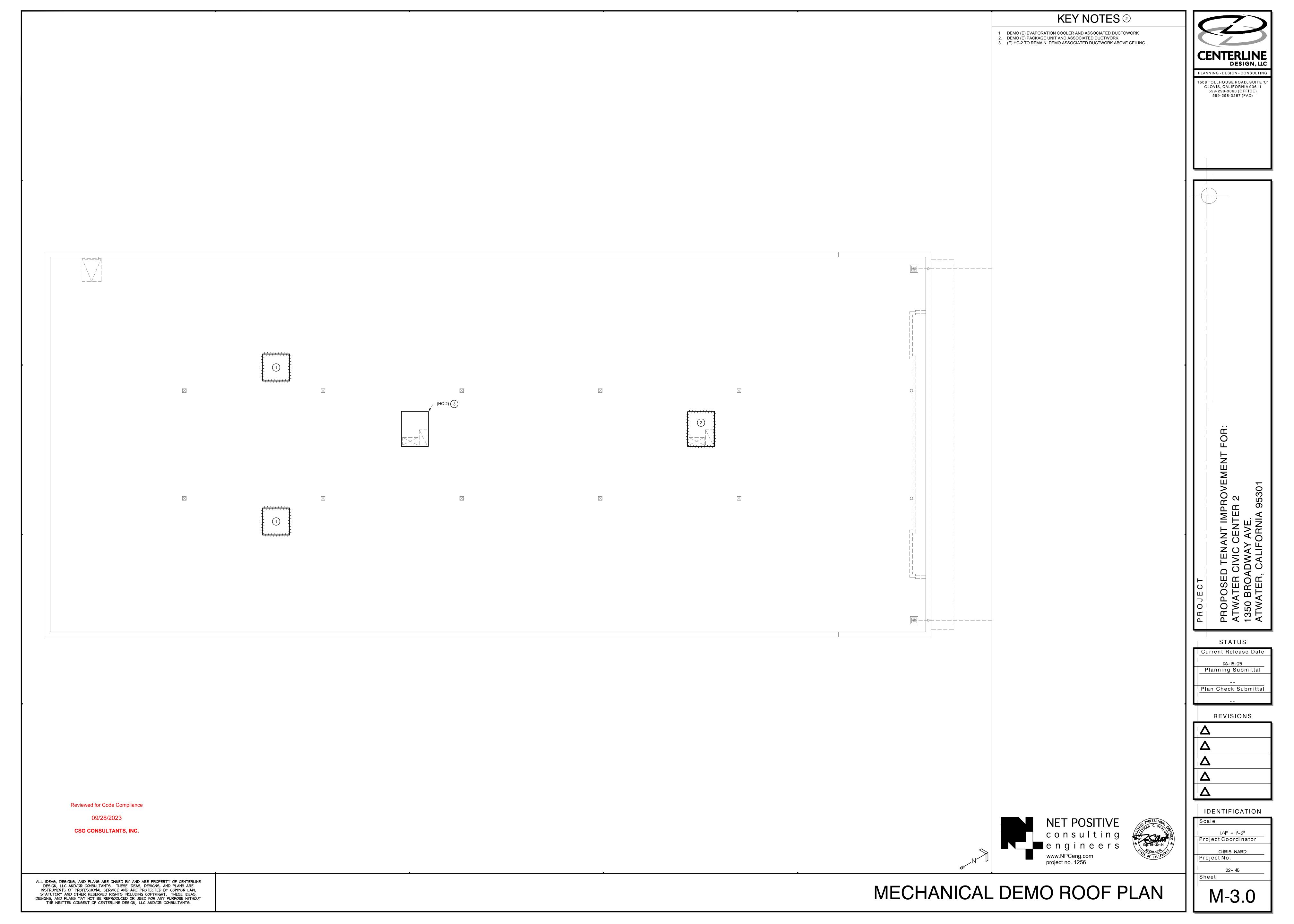
engineers engineers

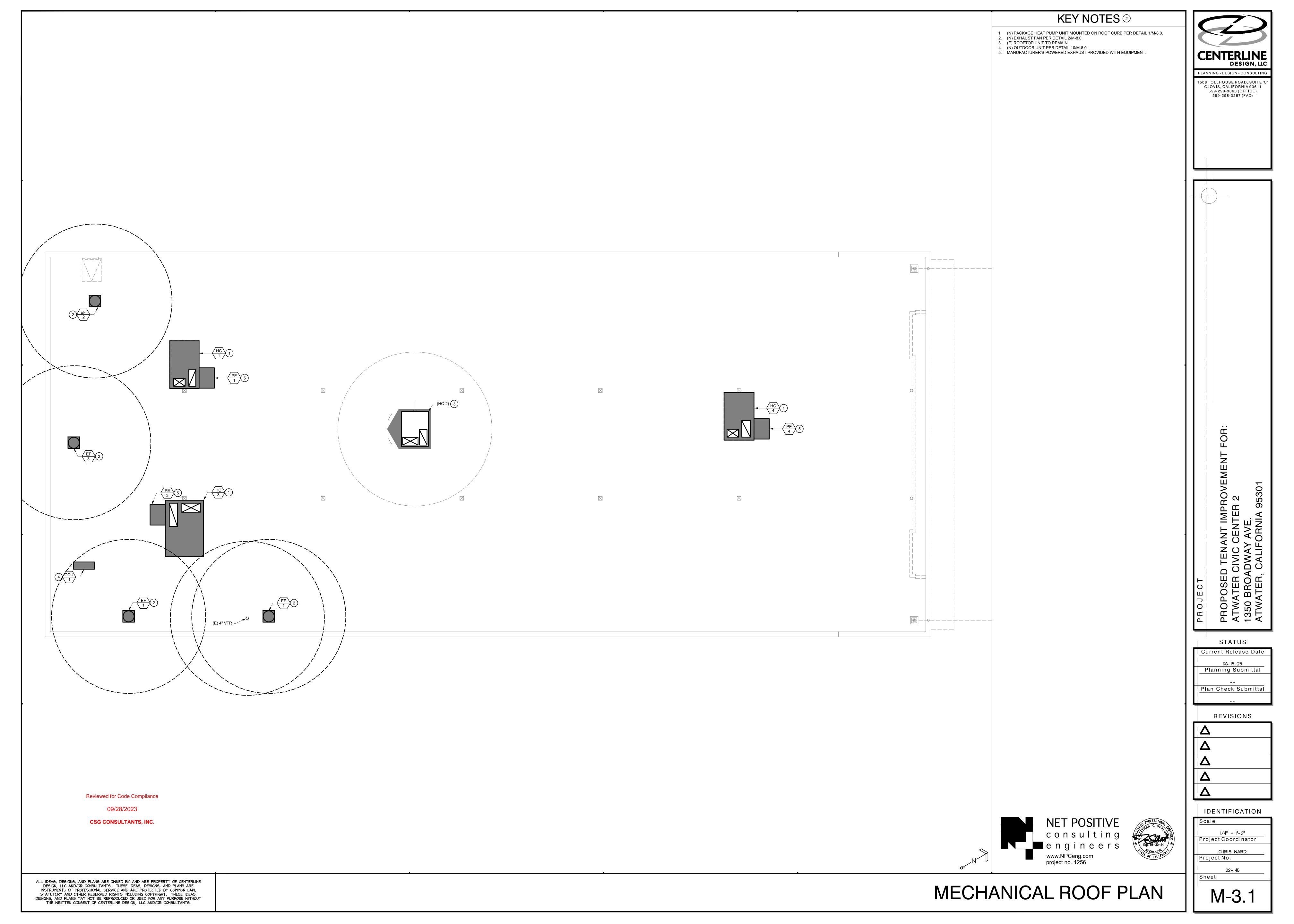
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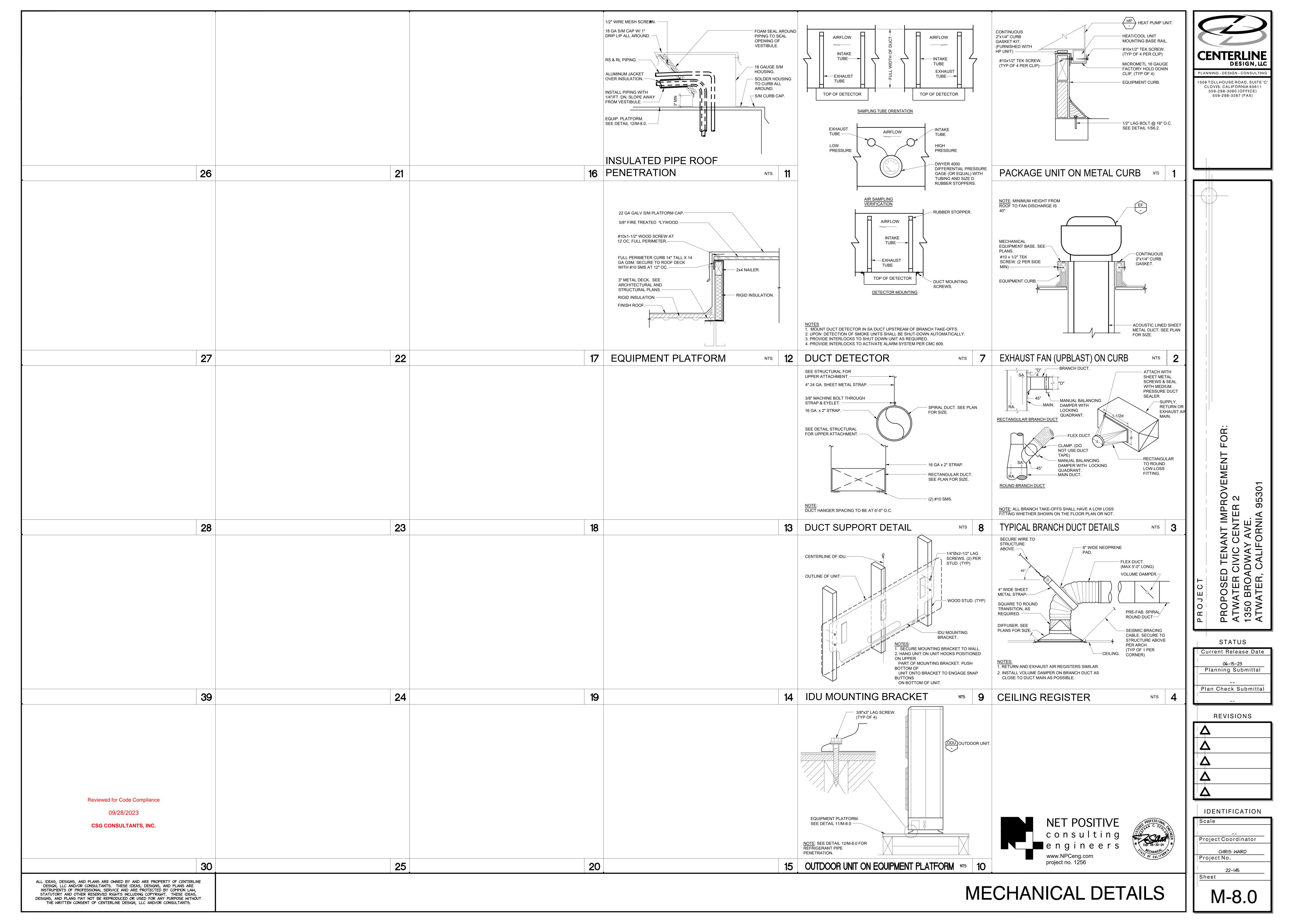
Reviewed for Code Compliance

09/28/2023

CSG CONSULTANTS, INC.







Mechanical Systems CALIFORNIA ENERGY COMMISSION	Mechanical Systems		CALIFORNIA ENERGY COMMISSION	Mechanical Systems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE 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.	CERTIFICATE OF COMPLIANCE Project Name: Atwater Civic Center	Report Page: Date Prepared:	NRCC-MCH-E (Page 2 of 11) 2023-08-18T13:30:39-04:00	CERTIFICATE OF COMPLIANCE Project Name: Atwater Civic Center	Report Page: Date Prepared:	NRCC-MCH-E (Page 3 of 11) 2023-08-18T13:30:39-04:00
Project Name:Atwater Civic CenterReport Page:(Page 1 of 11)Project Address:1350 Broadway Ave. Atwater, CA 95301Date Prepared:2023-08-18T13:30:39-04:00	<u>, </u>	pate riepared.	2023-00 10113.30.35 04.00	<u> </u>	Date Frepared.	2023 00 10113.50.35 04.00
A. GENERAL INFORMATION	C. COMPLIANCE RESULTS			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Space Conditioning System Information		
01 Project Location (city) Atwater 04 Total Conditioned Floor Area 4850 02 Climate Zone 12 05 Total Unconditioned Floor Area 420	Table C will indicate if the project data input into the compliance document in NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or 101 102 103 104		e user. If this table says "DOES 08 09	01 02 System Name Quantity System	03 04 m Serving System Status	05 06 Space Type Utilizing Recovered Heat
03 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) 1 • Office	System Summary System System	Terminal Box Distribution	08 09		gle zone New/ Addition gle zone New/ Addition	Office
• Office	110.1, AND Pumps 140.4(k), 110.2, 120.2, 140.4(c), 140.4(d) 140.4(f)	AND Ventilation AND Controls AND 120.3, AND Controls 120.1, 160.2 140.4(d), 140.4(l),	ooling Towers 110.2(e)2 Compliance Results	Dry System Equipment Sizing (includes air conditioners, condensers, heat	gle zone New/ Addition t pumps, VRF, furnaces and unit heaters and DOAS syst	Office tems)
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(c) 170.2(c) 170.2(c) 170.2(c) (See Table F) (See Table I) (See Table I)	170.2(c)4B 160.2, 160.3 (See Table J) (See Table L) (See Table L)	ee Table M)	01 02 03	500 500 500	07 08 09 10 11 Sizing per Mechanical Schedule (kBtu/h)
140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations. 01 02 03	Yes AND AND Yes AND Yes	AND Yes AND AND AND AND	COMPLIES with Exceptional	Name or Item Equipment Category per Fauinment Type per Tables	Smallest Size Heating Output ^{2,3}	0.4(a&b), 170.2(c)1 & 170.2(c)2
Air System(s) Wet System Components Dry System Components ☑ Heating Air System ☐ Water Economizer ☐ Air Economizer	Mandatory Measures Complian	e (See Table Q for Details) COMPLIES	Conditions	Name or Item Tag Tables 110.2, 140.4(a)2 and 170.2(c)3aii Equipment Type per Tables	140.4(a) and	Supp. Sensible Rated Heating Sensible Gooling
☑ Cooling Air System ☐ Pumps ☐ Electric Resistance Heat Mechanical Controls ☐ System Piping ☒ Fan Systems	D. EXCEPTIONAL CONDITIONS				(kBtu/h) (kBtu/h) (Output kBtu/h) Per Design (kBtu/h) Load Load (kBtu/h)
Mechanical Controls (existing to remain, altered or new) Cooling Towers Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because of selections made			HC-1 Unitary AC/ Cond. (no elec. resistance) AC, air-cooled pkg (3 pl	ohase) Yes	31.42 36 26.5
☐ Chillers ☑ Ventilation ☐ Boilers ☐ Zonal Systems/ Terminal Boxes	The permit applicant has indicated on Table J that ventilation calculations have	ve been attached or included elsewhere on the plans.		HC-3 Unitary AC/ Cond. (no elec. resistance) AC, air-cooled pkg (3 pl	phase) Yes	65.86 72 66
	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority H.	ving Jurisdiction.		HC-4 Unitary AC/ Cond. (no elec. resistance) AC, air-cooled pkg (3 pl	SOURCE STATE	44.07 48 47
	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)			IDU/ODU-1 elec. resistance) Air-cooled, split (1pha	,	11.6 11.19 11.19 1.4 2.6 the design heating and cooling loads of the building per
	Space Conditioning System Information 01 02 0	3 04 05	06	140.4(a) and 170.2(c)1. Healthcare facilities are excepted. ² It is common practice to show rated output capacity on the equipment school.	nedule. Sensible cooling output comes from specification	n sheet tables.
	System Name Quantity System HC-1 1 Singl		Utilizing Recovered Heat	³ If equipment is heating only, leave cooling output and load blank. If equipment and load blank if equipment is heating only, leave cooling output and load blank. If equipment is heating only, leave cooling output and load blank. If equipment and load blank if equipment is heating only, leave cooling output and load blank.		k.
Generated Date/Time: Documentation Software: Energy Code Ace		Generated Date/Time: Docum	mentation Software: Energy Code Ace		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 Report Generated: 2023-08-18 10:30:46	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101 Rep	Compliance ID: 119854-0823-0004 port Generated: 2023-08-18 10:30:46	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 119854-0823-0004 Report Generated: 2023-08-18 10:30:46
STATE OF CALIFORNIA	STATE OF CALIFORNIA			STATE OF CALIFORNIA		
Mechanical Systems CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E
Project Name: Atwater Civic Center Report Page: (Page 4 of 11) Date Prepared: 2023-08-18T13:30:39-04:00	Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 5 of 11) 2023-08-18T13:30:39-04:00	Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 6 of 11) 2023-08-18T13:30:39-04:00
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)	H. FAN SYSTEMS & AIR ECONOMIZERS This table is used to demonstrate compliance with prescriptive requirements		vstems. Fan systems serving only	H. FAN SYSTEMS & AIR ECONOMIZERS	Serving Not Fan	NA: <=33
01 02 03 04 05 06 07 08 09 Heating Mode Cooling Mode	process loads are exempt from these requirements and do not need to be inc	Serving Not Fan	NA: <=33		all other systems Dwelling Units Serving Dwelling Dwelling Units Units (cfm)	Site Elevation Economizer kBtu/h cooling
Name or Item Size Category Rating Efficiency Tag (Btu/h) Condition Efficiency Unit Required per Design Efficiency Efficiency Unit Required per Design Efficiency Design Efficiency Efficiency Unit Required per Design Efficiency Unit Required per De		oll other Dwelling Dwelling Units Units Serving System Dwelling Units (cfm) Serving System 140 Site Elevation 1	151 Economizer kBtu/h cooling		05 06 07 08 Allowance	09 10 11 Design
(°F) Tables 110.2 / Title 20 Title 20	01 02 03 04 09		10 11 Design			n Electrical Input Power Nameplate Design Motor Electrical
HC-1 <65,000 SEER 13 17.39 HC-3 >=65,000 and <135,000 EER 11 12.2	Fan Name or Item Fan Type Qty Component Component Component	ant (%) Gauge Allowance Design Electrical Input Pov	Namentare	Tag	(w.g) Allowance (watt/cfm)	Method Horsepower Input Power (kW)
HC-4 <65,000 SEER 13 17.39	Tag Fully ducted, or Systems that	(w.g) (watt/cfm) Method	Horsepower Power (kW)	Fully ducted, or Systems that EF-2 Exhaust 1 maintain pressure differential 1 between rooms	0.11 0.116 Ma	nufacturer provided 0.01
IDU/ODU-1 <65,000 HSPF2 7.5 14 SEER2 14.3 26.5	EF-1 Exhaust 1 maintain pressure differential between rooms	0.11 0.116 Manufacturer provided	0.02	Supply Fan Base O Exhuast/Return/Relief/Transfer Fan Ba Allowance (kW) Allowance(kW)	Fan System O.18 Allowance (kW) ³	0.03 Fan System Electrical Output (kW) 0.01
G. PUMPS This section does not apply to this project.	Supply Fan Base O Exhuast/Return/Relief/Transfer Fan Base Allowance (kW)	e 0.18 Fan System 0.04 Fa	on System Electrical Output (kW) 0.02		all other Dwelling Dwelling Dwelling Dwelling Dwelling Dwelling Dwelling 300	Site 151 Economizer kBtu/h
				Name Exhaust y Status Zoning	systems Units Dwelling Airflow (cfm) 05 06 07 08	Elevation cooling cooling 10 11
				Fan	Allowance	Design
					/ through Compone	Method Horsepower Input
				Fully ducted, or Systems that EF-3 Exhaust 1 maintain pressure differential 1		nufacturer provided 0.03
				Supply Fan Base Exhuast/Return/Relief/Transfer Fan Ba	Ean System	Fan System Floatrical
				Allowance (kW) Allowance(kW) FOOTNOTES: Fans serving spaces with design background noise goals below	O.18 Allowance (kW) ³	0.09 Output (kW) 0.03
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 119854-0823-0004 Schema Version: rev 20220101 Report Generated: 2023-08-18 10:30:46	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101 Rep	Compliance ID: 119854-0823-0004 port Generated: 2023-08-18 10:30:46	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 119854-0823-0004 Report Generated: 2023-08-18 10:30:46
STATE OF CALIFORNIA	STATE OF CALIFORNIA			STATE OF CALIFORNIA		
Mechanical Systems CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E
Project Name:Atwater Civic CenterReport Page:(Page 7 of 11)Date Prepared:2023-08-18T13:30:39-04:00	Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 8 of 11) 2023-08-18T13:30:39-04:00	Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 9 of 11) 2023-08-18T13:30:39-04:00
UL FAN CYCTEMAS & AID ECONOMIZEDS	U. EVUALIST AIR UEAT RECOVERY 140 4(-), 170 2(-)40			L VENTUATION AND INDOOR AIR QUALITY		
Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the	H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)40	NA: Serving space not		J. VENTILATION AND INDOOR AIR QUALITY This table is used to demonstrate compliance with mandatory ventilation red:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise res		
design load served by the equipment shall have fixed loads. ³ Fan system allowance includes fan system base allowance.	Kitchen Exhaust 100 10	cooled and heated to <60 F		application need to be documented in this table. In lieu of this table, the rec in a spreadsheet.	quired outdoor ventilation rates and airflows may be sh	own on the plans or the calculations can be presented
 Filter pressure loss can only be counted once per fan system. Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both. 	Fan Energy Index (FEI) 01	02	03	01 Check the box if the project is showing ventila Check this box if the project included Nonresid	ation calculations on the plans, or attaching the calculati idential, Hotel/Motel Spaces or Multifamily Common Us	
fails, or both. ⁶ Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document	Name or Item Tag Restroom Exhaust Fans	FEI Exception Embedded Fan <5HP or <4.1kW	FEI	03 Check the box if the project is using natural ve	entilation in any nonresidential or hotel/motel spaces t	meet required ventilation rates per 120.1(c)2.
H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)40 01		Embedded Fan <5HP or <4.1kW Embedded Fan <5HP or <4.1kW		K. TERMINAL BOX CONTROLS		
Hours of Paging Symphy Outdoor Air Exhaust Air Exhaust Air Exhaust Air Energy	I. SYSTEM CONTROLS			This section does not apply to this project.		
Fan System Name Operation per Year Operation per Airflow Airflow Operation per Airflow Airflow Operation per Airflow Airflow Operation per Airflow Airflow Airflow Operation per Airflow Airflow Operation per Airflow Airflow Operation per Airflow Airflow Operation per Operation p	This table is used to demonstrate compliance with mandatory controls in 110 141.0(b)2E 180.2(b)2 for altered space conditioning systems.			L. DISTRIBUTION (DUCTWORK and PIPING)		
170.2(c)40 NA: Total	01 02 03 04 Conditioned Thermostat	Zono Domand Pocnonco	y Air	This section does not apply to this project.		
airflow exhausted and	System Name System Floor Area 110.2(b) & (c) ¹ , 1 Zoning Being Served (ft ²) 180.2(b)2	(b)2E & 120.2(e) & 120.2(g) & 160.3(a)2B Temp. 1	Reset Window Interlocks per (f) & 140.4(n) & 170.2(c)4D	M. COOLING TOWERS This section does not apply to this project.		
Exhaust 28 0.2 relieved within 20ft <75% per Exception 6 to	HC-1 Single zone <= 25,000 ft ² Setback	Auto Timer Auto Timer DR Tetat per 110 12 NA: Si	ingle NA: Alteration Project			
140.4(q) NA: Total	¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room he have setback thermostats.	Switch Switch Zon	ne	N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in previous table. These desuments must be provided to the building inspector during constru		d, please explain why in Table E Additional Remarks.
Janitorial Februare 100 100 1 airflow exhausted and relieved within				These documents must be provided to the building inspector during construent https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents.	uments/Nonresidential_Documents/NRCI/	5
20ft <75% per Exception 6 to				NRCI-MCH-01-E - Must be submitted for all buildings	Form/Title	
140.4(q)						
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 119854-0823-0004 Report Generated: 2023-08-18 10:30:46	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101 Rep	Compliance ID: 119854-0823-0004 port Generated: 2023-08-18 10:30:46	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 119854-0823-0004 Report Generated: 2023-08-18 10:30:46
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				Reviewed for Code Compliance		NET POSITIV consultin
				09/28/2023		engineer

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consulting
engineers

www.NPCeng.com
project no. 1256

TITLE 24 DOCUMENTATION

CSG CONSULTANTS, INC.

PLANNING - DESIGN - CONSULTING 1508 TOLLHOUSE ROAD, SUITE 'C' CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

PROPOSED TENANT IMPROVEMENT FOR: ATWATER CIVIC CENTER 2 1350 BROADWAY AVE. ATWATER, CALIFORNIA 95301

Plan Check Submittal

06-15-23 Planning Submittal

REVISIONS

IDENTIFICATION

Project Coordinator Project No.

Sheet

STATE OF CALIFORNIA Mechanical Systems		CALIFORNIA ENERGY COMMISSION	Mechanical Systems		CALIFORNIA ENERGY COMMISSION	Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION
Project Name: Atwater Civic Center	Report Page: Date Prepared:	NRCC-MCH-E (Page 10 of 11) 2023-08-18T13:30:39-04:00	CERTIFICATE OF COMPLIANCE Project Name: Atwater Civic Center Project Address: 1350 Broadway Ave. Atwater, CA 95301	Report Page: Date Prepared:	NRCC-MCH-E (Page 11 of 11) 2023-08-18T13:30:39-04:00	CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance for nonresidential occup alterations, for domestic water heating scopes using the prescriptive path.		
!						110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for addition Project Name: Atwater Civic Center Project Address: 1350 Broadway Ave., Atwater, CA 95301	Report Page: Date Prepared:	(Page 1 of 7 2023-09-18T11:32:57-04:00
O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTAN			I certify that this Certificate of Compliance documentation is accur	rate and complete.		A. GENERAL INFORMATION	Date Frepareu.	2023-09-10111.32.37-04.0
These documents must be provided to the building inspector during		se explain why in Table E Additional Remarks.	Documentation Author Name: Matthew Ilagan	Documentation Author Signature: Mat	thew llagan Design good in National Sign: St. On 1 or National Sign:	01 Project Location (city) Atwater	02 Climate Zo	ne 12
https://www.energy.ca.gov/title24/2019standards/2019_complian	ce_documents/Nonresidential_Documents/NRCA/ Form/Title	Systems/Spaces To Be Field	Company: Net Positive Consulting Engineers	Signature Date: 8/18/2023		Occupancy Types Within Project (select all that apply): Office		
	alled HVAC units. Note: MCH-02-A can be performed in conjunction wi	Verified ith MCH-07-A	Address: 1446 Tollhouse Rd. #102 City/State/Zip:Clovis, CA, 93611	CEA/ HERS Certification Identification (if applic Phone:559.940.7293	ble):			
P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION			RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept res	sponsibility for the building design or system design identified on this C	ertificate of Compliance (responsible designer)	B. PROJECT SCOPE This table includes domestic water heating systems that are within the scop 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterathydronic water heating systems are documented on the NRCC-MCH compli	ions. Solar water heating systems are documented	
There are no NRCV forms required for this project.			The energy features and performance specifications, materials, components, and of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or perform design features identified on this Codification.		- N	01	02	03
Q. MANDATORY MEASURES DOCUMENTATION LOCATION			 The building design features or system design features identified on this Certificate plans and specifications submitted to the enforcement agency for approval with I will ensure that a completed signed copy of this Certificate of Compliance shall 	this building permit application. be made available with the building permit(s) issued for the building,	and made available to the enforcement agency for all applicable	My project consists of (check all that apply): New system (DHW system being installed for the first time)	System Type ^{1,2} Individual System (serving nonresidential s	
This table is used to indicate where mandatory measures are docum 01		02	inspections. I understand that a completed signed copy of this Certificate of Com Responsible Designer Name: Jonathan Schlundt	Responsible Designer Signature:	provides to the building owner at occupancy.	☐ System Alteration (equipment, distribution or controls) **FOOTNOTES: Point of use water heaters, or other non-central systems used	d to serve nonresidential spaces, are considered in	☐ Equipment ☐ Distribution ☐ Controls dividual systems.
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No Plan s	sheet or construction document location	Company: Net Positive Consulting Engineers Address: 1446 Tollhouse Rd. #102	Date Signed:8/18/2023 License:M35955		² Dwelling units refers to hotel/motel guest rooms and units in a multifamil ³ DHW systems serving 2 or more dwelling units are considered "Central Systems".	y residential occupancy.	
03 Mandatory Me	asure Plan s	04 sheet or construction document location	City/State/Zip: Clovis, CA, 93611	Phone: 559,940,7293		C. COMPLIANCE RESULTS		
Heating Equipment Efficiency per 110.1		M-0.0				Table C will indicate if the project data input into the compliance document Exceptional Conditions" refer to Table D. or the table indicated as not comp		this table says "DOES NOT COMPLY" or "COMPLIES with
Cooling Equipment Efficiency per 110.1 Furnace Standby Loss Control per 110.2(d)		M-0.0 NA				01 02	03	04
Heat Pump with Supplemental electric Resistance Heater Controls p Kitchen range hoods shall be rated for sound in accordance with Se	The same of the same same same same same same same sam	NA NA				Domestic Hot Water Equipment Distribution Systems Table F Table G	Controls Table H	Compliance Results
The first state of the first sta		1000				Yes Yes	Yes	COMPLIES
						D. EXCEPTIONAL CONDITIONS		
						This table is auto-filled with uneditable comments because of selections mo	de or data entered in tables throughout the form.	
	Generated Date/Time:	Documentation Software: Energy Code Ace		Generated Date/Time:	Documentation Software: Energy Code Ace		Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 119854-0823-0004	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 119854-0823-0004	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 119854-0923-0005
	Schema Version: rev 20220101	Report Generated: 2023-08-18 10:30:46		Schema Version: rev 20220101	Report Generated: 2023-08-18 10:30:46		Schema Version: rev 20220101	Report Generated: 2023-09-18 08:32:59
Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Domestic Water Heating System		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-PLB-E	CERTIFICATE OF COMPLIANCE		NRCC-PLB-E	CERTIFICATE OF COMPLIANCE		NRCC-PLB-
Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 2 of 7) 2023-09-18T11:32:57-04:00	Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 3 of 7) 2023-09-18T11:32:57-04:00	Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 4 of 7 2023-09-18T11:32:57-04:0
<u></u>	A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					1	A statement the	
E ADDITIONAL BEAMARIES			E DOMESTIC HOT WATER FOUIDMENT			C. DOMESTIC HOT WATER DISTRIBUTION SYSTEM		
E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Automatical Section 1. The Automatical Sec	thority Having Jurisdiction.		F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment is	requirements in 110.1 and 110.3. Compliance with presc	iptive requirements in 140.5(c) / 170.2(d) must also	G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM This table is used to demonstrate compliance for nonresidential occupancies	s with distribution requirements in 120.3 and 140.	5. For multifamily and hotel/motel occupancies,
<u>t</u>			be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration Equipment Schedule: Water Heating Efficiency and Standby Loss	n scopes.	40 10 10 10 10 10 10 10 10 10 10 10 10 10	compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d). Mandatory Pipe Insulation All Occupancies		
			03 04	05	06	For systems serving dwelling units, pipe insulation	must meet the minimum insulation requirements hall not be required to have pipe insulation for the	
			System WH-1 Exception to 140.5(c)/ Exceptions Do				ets, plugs, wrapping or other insulating material to	assure that no contact is made with the metal framing.
			Name 170.2(d)3 Not Apply	System >= Average Efficiency % 1MMBtu/h ¹		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
			07 08 09 10 Rated Input Max GPM/ First	11 12 13 Minimum	14 15	. 2015 C.		tion, or 4 inches of attic insulation, shall not be required to
			Name or Item Tag Equipment Type (gal) Volume (Capacity Hour Rating (Btu/h) (FHR)	Rated Efficiency Efficiency Unit Required	Designed Standby Loss Maximum Standby Loss	have pipe insulation. For systems serving nonresidential spaces, pipe in	sulation for the following applications is specified	to comply with Table 120.3-A (see below) per 120.3:
			Consumer Rated	Required		 Recirculating system piping, including supp The first 8 ft of hot and cold outlet piping, 	ly and return piping of the water heater including between storage tank and heat trap, for	a nonrecirculating storage system
			Gas-Fired WH-1 Instantaneous <=2 199,900 GPM >= 4.0	0.96 0.81 UEF		Pipes that are externally heated Insulation shall be protected from damage, include	ing that due to sunlight moisture, equipment mai	intenance, and wind. Insulation exposed to weather shall
			(50,000-200,000 BTUH)					below grade must be installed in a water proof and
			¹ FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heat average.	ers with input capacity > 100,000 Btu/h may meet 90% E	t requirements via an input capacity-weighted		3-A / 160.4-A PIPE INSULATION THICKNESS	X=
			¹ FOOTNOTE: Compliant equipment may be found in the Modernized Applie https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.as		Commission website:	Conductivity Range (Btu-in Insulation Mean Rating	Temp/	ninal Pipe Diameter (in) 1.5 to < 4 Multifamily &
			Water Heating Equipment All Occupancies			Fluid Temperature Range (°F) per hour per ft ² per °F) per °F)	<1 110<1.5	1.5 to < 4 Hotel/Motel mum Insulation Required
			Yes No Not Applicable	Requirement		105-140 0.22 - 0.28 100	1.0 in or R-7.7 1.5 in or R-12.5	1.5 in or R-11 2.0 in or R-16
				tank insulation shall have Internal + External >=R-16 OR lings 60% of energy for service water heating from site so				
				for instantaneous water heater with input rating >6.8 kg $s < 25,000 \text{ ft}^2$ and $< 4 stories must install a heat pump water than the stories of the s$	The state of the s			
				an individual bathroom space may be an instantaneous				
	Generated Date/Time:	Documentation Software: Energy Code Ace		Generated Date/Time:	Documentation Software: Energy Code Ace		Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	*	Compliance ID: 119854-0923-0005	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 119854-0923-0005	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 119854-0923-0005
er ballang energy statistical experience compliance	Schema Version: rev 20220101	Report Generated: 2023-09-18 08:32:59	er, building Energy Standards 2022 Nonestachtar Compitation	Schema Version: rev 20220101	Report Generated: 2023-09-18 08:32:59	Cry ballang Energy Standards Edeby Standards Computing	Schema Version: rev 20220101	Report Generated: 2023-09-18 08:32:59
STATE OF CALIFORNIA			STATE OF CALIFORNIA			STATE OF CALIFORNIA		
Domestic Water Heating System CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-PLB-E	CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-PLB-E	Domestic Water Heating System CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-PLB-I
Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 5 of 7)	Project Name: Atwater Civic Center	Report Page: Date Prepared:	(Page 6 of 7)	Project Name: Atwater Civic Center	Report Page:	(Page 7 of 7
<u> </u>	расе ггерагец:	2023-09-18T11:32:57-04:00	<u></u>	Date Frepared:	2023-09-18T11:32:57-04:00	Project Address: 1350 Broadway Ave., Atwater, CA 95301	Date Prepared:	2023-09-18T11:32:57-04:00
H. DOMESTIC HOT WATER CONTROLS						DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
	ents in 110.3 for all occupancies. For multifamily residential and hotel/	motel occupancies, compliance is also	I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document.	nt. If any selection have been changed by permit applica	nt, an explanation should be included in Table F	I certify that this Certificate of Compliance documentation is accur		
Ves No Not	Requirement		Additional Remarks. These documents must be provided to the building in	spector during construction and can be found online	The state of the s	Documentation Author Name: Matthew Ilagan		Matthew Ilagan Statistic designation again to the Real of Green Education States and Control of States (No. 400 to the States States and Control of States (No. 400 to the States State
410	n documents require manufacturer certification that service water-hea	ating systems are equipped with automatic	NDCL DLD E AMORE E CONTRACTOR DE CONTRACTOR	Form/Title		Company: Net Positive Consulting Engineers	Signature Date: 9/18/2023	
temperature	e controls capable of adjusting temperature settings per 110.3(a). h capacity > 167,000 BTUH equipped with outlet temperature controls	710 S	NRCI-PLB-E - Must be submitted for all buildings			Address: 1446 Tollhouse Rd., Ste. #102 City/State/Zip: Clovis, CA 93611	CEA/ HERS Certification Identification (if Phone: 559.940.7293	applicable):
Plumbing Co			J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no forms required for this project.			RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:		
03 L S S110.3(c)2	unless systems serves healthcare facility.		K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION			 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 resp 		
04	ation systems serving multiple dwelling units, design includes automati		There are no forms required for this project.			 The energy features and performance specifications, materials, components, and 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 Certifical 		
Appendix RA	ation systems serving individual dwelling units, design includes manual A4.4.9 per 170.2(d).					plans and specifications submitted to the enforcement agency for approval with t 5. I will ensure that a completed signed copy of this Certificate of Compliance shall to	his building permit application. be made available with the building permit(s) issued for the bui	ilding, and made available to the enforcement agency for all applicable
• Roile	air positive shut-off shall be provided per 160.4(3).on all newly installers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed	[49] [2] I [47] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4				inspections. I understand that a completed signed copy of this Certificate of Com Responsible Designer Name: Jonathan Schlundt	Responsible Designer Signature:	
06 U U press						Company: Net Positive Consulting Engineers Address: 1446 Tollhouse Rd., Ste. #102	Date Signed: 9/18/2023 License: M35955	
Boiler comb	ustion air fans with motor >= 10 hp shall meet one of the following fan motor shall be driven by a variable speed drive OR					City/State/Zip: Clovis, CA 93611	Phone: 559.940.7293	
07	an motor shall include controls that limit the fan motor demand to <=	30% of the total design wattage at 50% of the						
Newly instal	an air volume. lled boilers with an input capacity {d:gte/] 5MMBtu/h and a steady sta	1 CHI C 1 1 1 1 1 1 1 1 1						
volume shall	cess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis Il be controlled with respect to firing rate or flue gas oxygen concentrat							
control links	age or jack shaft is prohibited.							
	22 35 925500 NASS	921 WW. 2010 Mac 1944		22 35 3952500 44500°			2 <u>. 1212.663</u> MA	
CA DINIANA FUEL PROPERTY FOR THE PROPERTY OF T	Generated Date/Time:	Documentation Software: Energy Code Ace	CA PUBLIC FUEL PER CONTRACTOR DE LA CONT	Generated Date/Time:	Documentation Software: Energy Code Ace	CA Building Fu	Generated Date/Time:	Documentation Software: Energy Code Ace
Co building Energy Emclency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 119854-0923-0005 Report Generated: 2023-09-18 08:32:59	Co building Energy Enriciency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 119854-0923-0005 Report Generated: 2023-09-18 08:32:59		Schema Version: rev 20220101	Report Generated: 2023-09-18 08:32:59
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 119854-0923-0005	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 119854-0923-0005	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Reviewed for Code Co	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 119854-0923-0 Report Generated: 2023-09-18 08:32

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STATUS

Planning Submittal

Plan Check Submittal

REVISIONS

IDENTIFICATION

Project Coordinator

Project No.

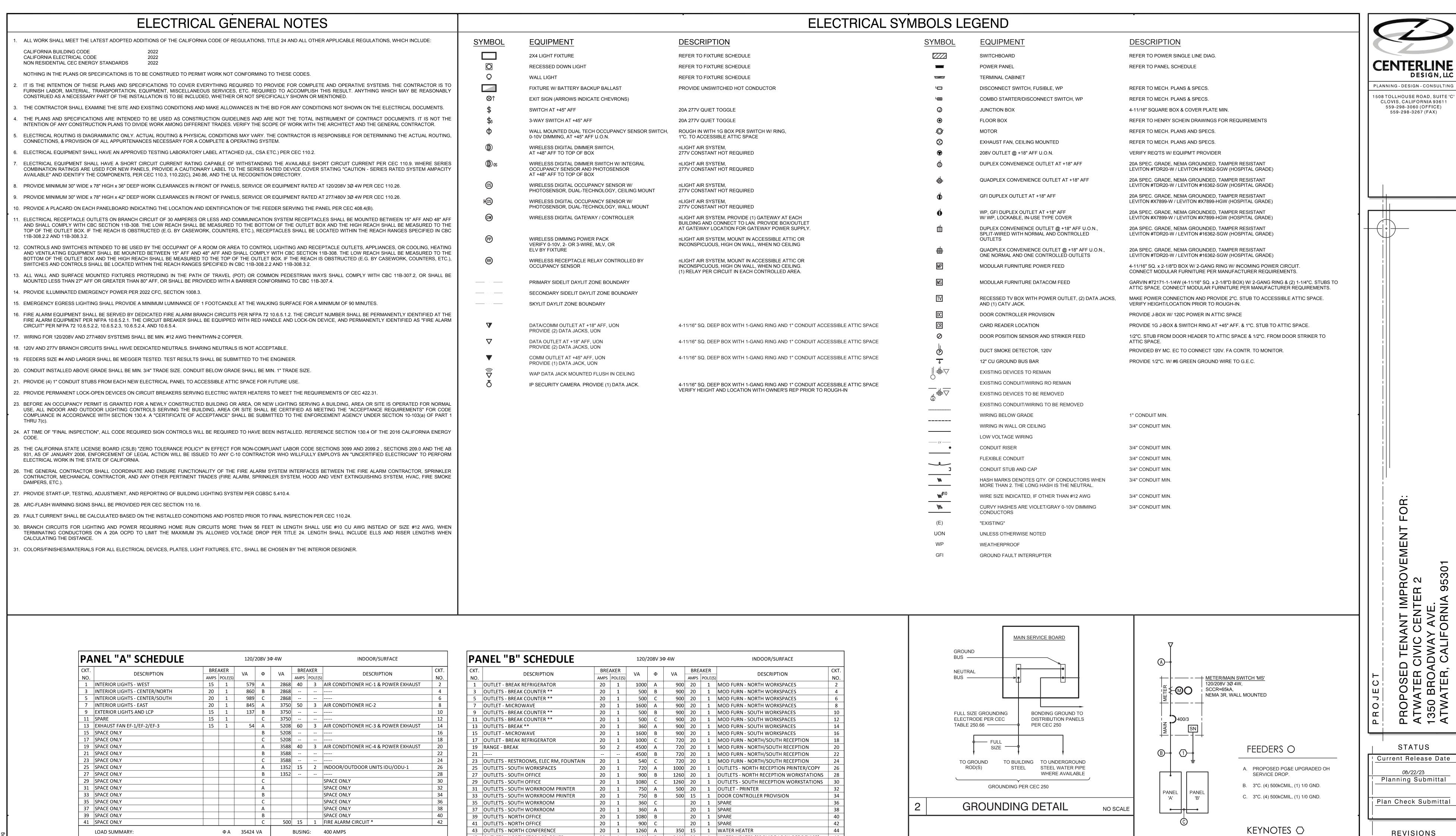
Sheet

PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C' CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

09/28/2023

CSG CONSULTANTS, INC.



Φ B 36433 VA MAIN LUGS AND SUB-FEED LUGS Φ C 30223 VA SCCR: 50,000 AMPS 102.1 kVA * PROVIDE RED HANDLE AND LOCK-ON DEVICE CONNECTED LOAD: MAX CURRENT:

CVT		DDE	AKED				DDE	A I/E D		CVT
CKT.	DESCRIPTION		AKER	VA	Φ	VA		AKER	DESCRIPTION	CKT
NO.	OUTLET DREAM DEEDLOSDATOR		POLE(S)	4000		000		POLE(S)		NO
1	OUTLET - BREAK REFRIGERATOR	20	1	1000	A	900		1	MOD FURN - NORTH WORKSPACES	2
3	OUTLETS - BREAK COUNTER **	20	1	500	<u>B</u>	900	20	1	MOD FURN - NORTH WORKSPACES	4
5	OUTLETS - BREAK COUNTER **	20	1	500	C	900		1	MOD FURN - NORTH WORKSPACES	6
7	OUTLET - MICROWAVE	20	1	1600	A	900	20	1	MOD FURN - NORTH WORKSPACES	8
9	OUTLETS - BREAK COUNTER **	20	1	500	В	900	20	1	MOD FURN - SOUTH WORKSPACES	10
11	OUTLETS - BREAK COUNTER **	20	1	500	C	900	20	1	MOD FURN - SOUTH WORKSPACES	12
13	OUTLETS - BREAK **	20	1	360	A	900	20	1	MOD FURN - SOUTH WORKSPACES	14
15	OUTLET - MICROWAVE	20	1	1600	В	900	20	1	MOD FURN - SOUTH WORKSPACES	16
17	OUTLET - BREAK REFRIGERATOR	20	1	1000	С	720	20	1	MOD FURN - NORTH/SOUTH RECEPTION	18
19	RANGE - BREAK	50	2	4500	Α	720	20	1	MOD FURN - NORTH/SOUTH RECEPTION	20
21				4500	В	720	20	1	MOD FURN - NORTH/SOUTH RECEPTION	22
23	OUTLETS - RESTROOMS, ELEC RM, FOUNTAIN	20	1	540	С	720	20	1	MOD FURN - NORTH/SOUTH RECEPTION	24
25	OUTLETS - SOUTH WORKSPACES	20	1	720	Α	1000	20	1	OUTLETS - NORTH RECEPTION PRINTER/COPY	26
27	OUTLETS - SOUTH OFFICE	20	1	900	В	1260		1	OUTLETS - NORTH RECEPTION WORKSTATIONS	28
29	OUTLETS - SOUTH OFFICE	20	1	1080	С	1260	20	1	OUTLETS - SOUTH RECEPTION WORKSTATIONS	30
31	OUTLETS - SOUTH WORKROOM PRINTER	20	1	750	Α	500	20	1	OUTLET - PRINTER	32
33	OUTLETS - SOUTH WORKROOM PRINTER	20	1	750	В	500	15	1	DOOR CONTROLLER PROVISION	34
35	OUTLETS - SOUTH WORKROOM	20	1	360	С		20	1	SPARE	36
37	OUTLETS - SOUTH WORKROOM	20	1	360	Α		20	1	SPARE	38
39	OUTLETS - NORTH OFFICE	20	1	1080	В		20	1	SPARE	40
41	OUTLETS - NORTH OFFICE	20	1	900	С		20	1	SPARE	42
43	OUTLETS - NORTH CONFERENCE	20	1	1260	Α	350	15	1	WATER HEATER	44
45	OUTLETS - NORTH STORAGE, FOYER	20	1	180	В	2400	20	1	WATER HEATER [PROVIDE LOCK-OFF DEVICE]	46
47	OUTLETS - NORTH STORAGE PRINT/COPY	20	1	1000	С	2400	20	1	WATER HEATER [PROVIDE LOCK-OFF DEVICE]	48
49	OUTLETS - NORTH STORAGE PRINT/COPY	20	1	1000	Α	360	20	1	OUTLETS - ELEC RM IDF	50
51	OUTLETS - LOBBY	20	1	720	В	360	20	1	OUTLETS - ELEC RM IDF	52
53	OUTLET - NORTHWEST FOYER	20	1	180	С	360	20	1	OUTLETS - AT&T MPOE	54
	LOAD SUMMARY:		ΦА	35424	VA		BUSIN	G:	400 AMPS	
			ΦВ	36433			MAIN:		LUGS ONLY	
			ΦС	30223			SCCR:		50,000 AMPS	
	CONNECTED LOAD:			102.1			NOTES	S:	* PROVIDE RED LOCK-ON DEVICE	
	MAX CURRENT:			304				-	** GFI CIRCUIT BREAKER	

 GROUNDING ELECTRODE CONDUCTORS PER DETAIL 2/E1.0. 3 POWER SINGLE LINE DIAGRAM NO SCALE

Engineering

Clovis, CA 93612 559.323.4995 tel

559.323.4928 fax

IDENTIFICATION Scale

Project Coordinator CHRIS WARD Project No.

22-145 Sheet

Reviewed for Code Compliance

09/28/2023

CSG CONSULTANTS, INC.

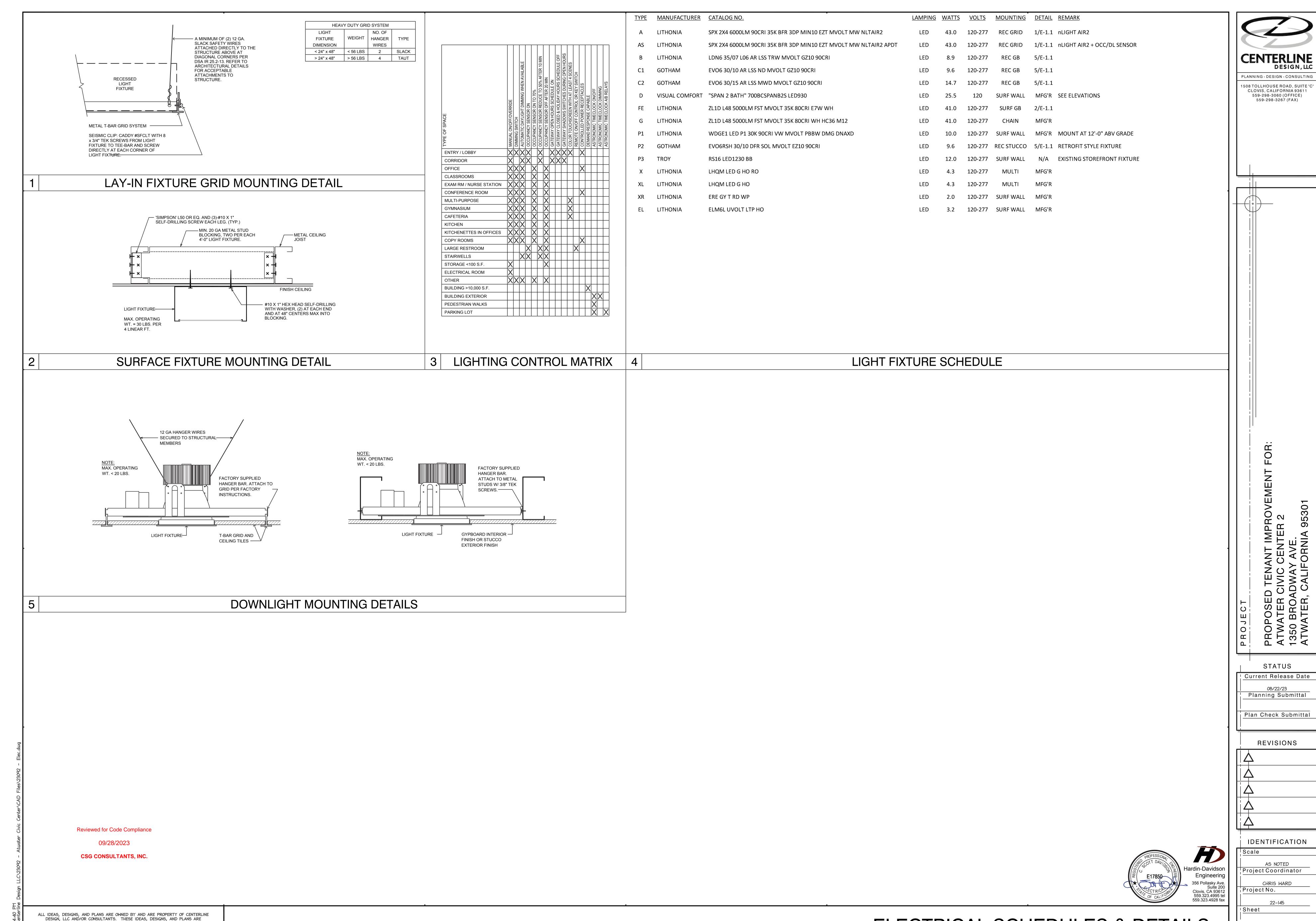
PANEL SCHEDULES

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ELECTRICAL NOTES AND SYMBOLS LEGEND

NO SCALE

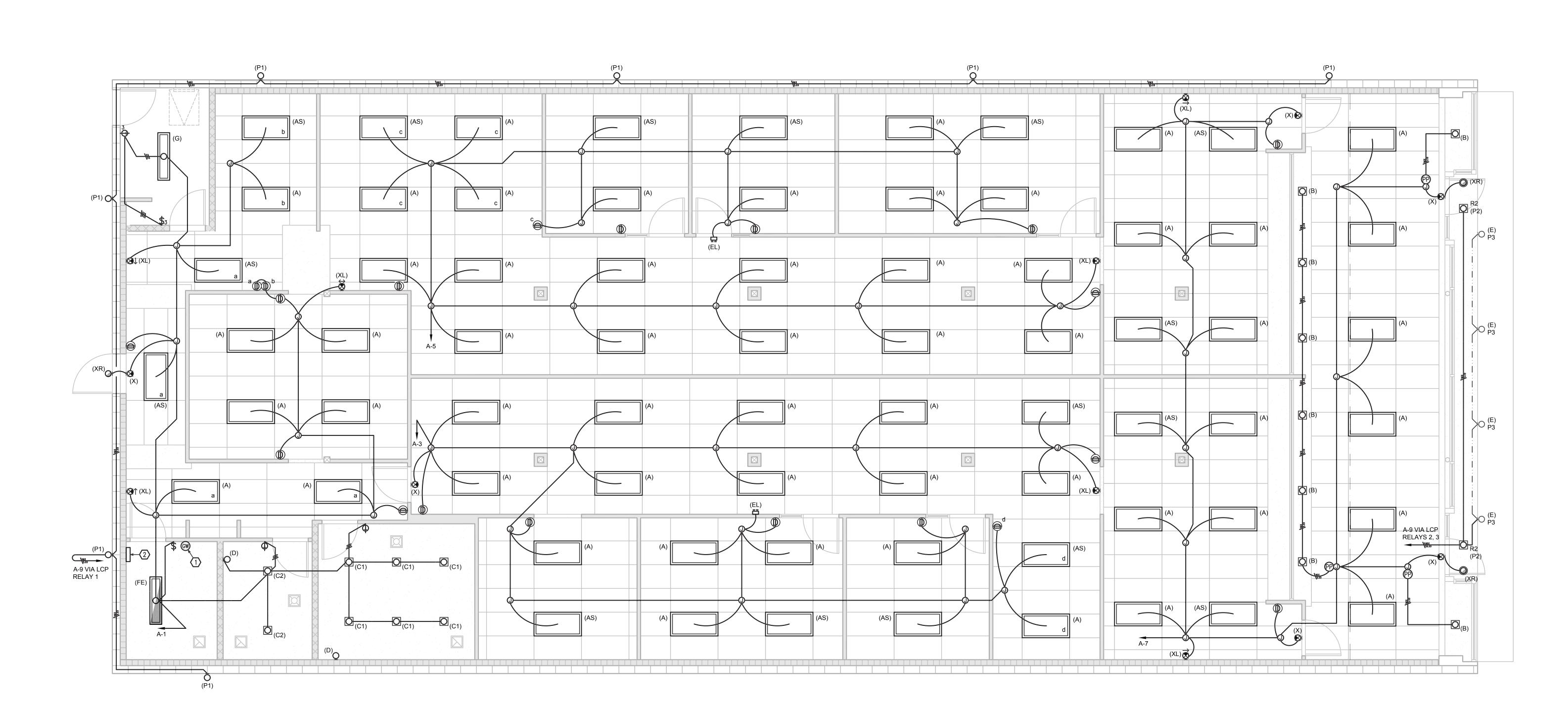


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ELECTRICAL SCHEDULES & DETAILS

E-1.1

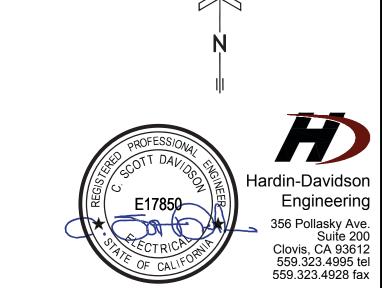
LIGHTING GENERAL NOTES KEY NOTES ○ THE CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF LIGHT FIXTURES AND LIGHTING CONTROLS SHOP DRAWINGS, TO THE ENGINEER FOR REVIEW AND LIGHTING CONTROL GATEWAY CONTROLS THAT COMPLY WITH THE REQUIREMENTS OF CALIFORNIA ENERGY APPROVAL. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN REJECTION ACUITY #nECY MVOLT ENC SEP GFXK AIR. COMMISSION TITLE 24. OF THE SUBSTITUTE PACKAGE. CONNECT POWER AND PROVIDE DATA CONNECTION. MOUNT WALL CONTROLLER ON WALL BELOW GATEWAY. PROVIDE A COMPLETE AND OPERATIONAL ACUITY BRANDS "nLIGHT AIR" CONTROLS PACKAGE IN LIGHTING AREAS. PROVIDE WALL SWITCHES, SENSORS, POWER PACKS, . LIGHTING CONTROL PANEL "LCP" ACUITY #ARP INTENC08 NLT 8FCR MVOLT HLK SM DTC. MISCELLANEOUS APPURTENANCES, FACTORY CABLING, AND FACTORY COMMISSIONING. CONNECT POWER AND PROVIDE DATA CONNECTION ON nLIGHT NETWORK. THE PLANS GENERALLY SHOW THE LOCATION OF SWITCHES, SENSORS, CONTROL MODULES ETC. ACTUAL LOCATIONS AND INSTALLATION REQUIREMENTS SHALL BE DETERMINED BY THE MANUFACTURER'S SHOP DRAWINGS. SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL. PROVIDE FACTORY COMMISSIONING, TO INCLUDE COMPLETE CONTROL WIRING/ CALIBRATION/ PROGRAMMING OF LIGHTING CONTROL COMPONENTS. LIGHTING FIXTURE COLORS, WHEN SHOWN TO BE SELECTED BY ARCHITECT OR NOT OTHERWISE SPECIFIED, SHALL BE SUBMITTED TO AND SELECTED BY THE ARCHITECT'S OFFICE. DO NOT SUBMIT COLORS THAT HAVE NOT BEEN APPROVED BY THE ARCHITECT. . LIGHTING SYSTEM ACCEPTANCE TESTING IS REQUIRED AS PER TITLE 24. THE CONTRACTOR SHALL INCLUDE ACCEPTANCE TESTING COSTS IN BID. THE CONTRACTOR IS RESPONSIBLE TO MAKE ANY ADJUSTMENTS NECESSARY TO ACHIEVE ACCEPTANCE. AN EQUAL SUBSTITUTE PACKAGE BY ANOTHER MANUFACTURER MAY BE ACCEPTABLE; HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED COMPONENTS, ADDITIONAL WIRING FOR DIMMING OPERATION OF LIGHT FIXTURES, AND ANYTHING ELSE NEEDED FOR A COMPLETE AND OPERATIONAL SYSTEM. SUBMIT A PROPOSED SUBSTITUTE PACKAGE, COMPLETE WITH ALL FIXTURE CUT SHEETS AND



Reviewed for Code Compliance
09/28/2023
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LIGHTING PLAN

CENTERLINE
DESIGN, LLC

PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C'
CLOVIS, CALIFORNIA 93611
559-298-3060 (OFFICE)

559-298-3267 (FAX)

PROPOSED TENANT IMPROVE
ATWATER CIVIC CENTER 2
1350 BROADWAY AVE.

STATUS

Current Release Date

08/22/23

Planning Submittal

Plan Check Submittal

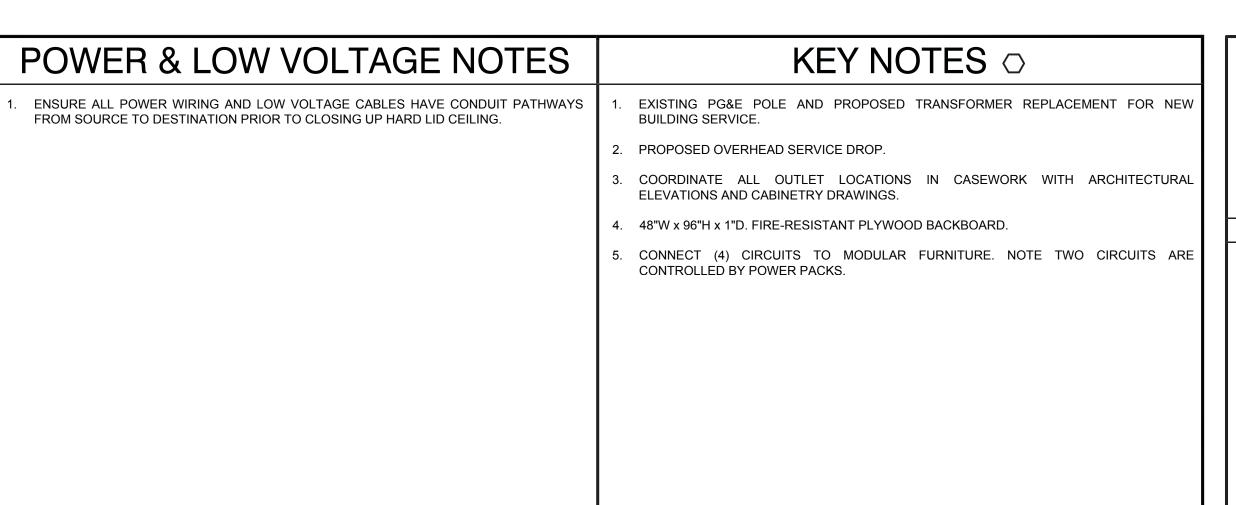
REVISIONS

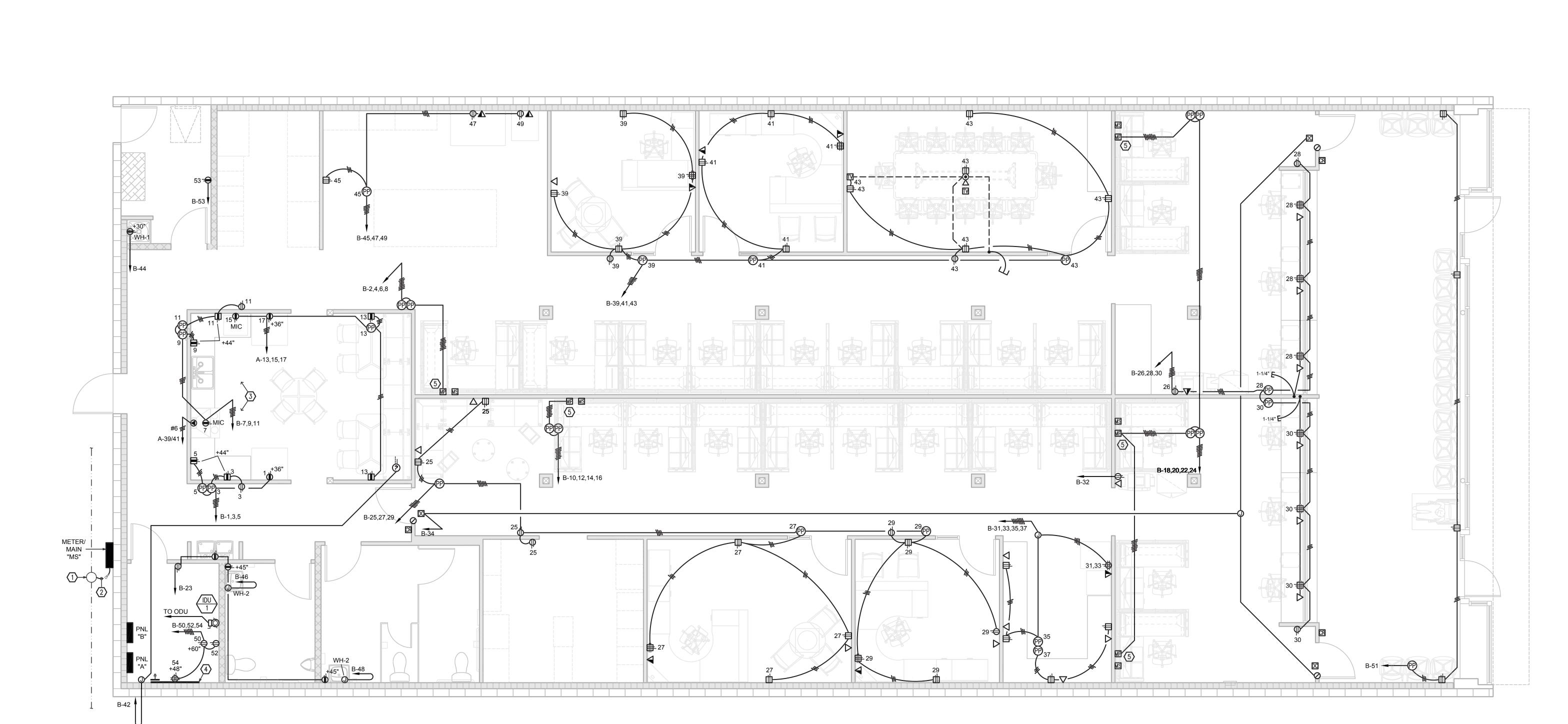
IDENTIFICATION

F-2 0

22-145

Sheet





Reviewed for Code Compliance
09/28/2023
CSG CONSULTANTS, INC.

Hardin-Davidson
Engineering
356 Pollasky Ave.
Suite 200
Clovis, CA 93612
559.323.4995 tel
559.323.4928 fax

POWER & LOW VOLTAGE PLAN

NEW

CENTERLINE
DESIGN, LLC

PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C'
CLOVIS, CALIFORNIA 93611
559-298-3060 (OFFICE)
559-298-3267 (FAX)

PROPOSED TENANT IMPROVEN
ATWATER CIVIC CENTER 2
1350 BROADWAY AVE.

Plan Check Submittal
REVISIONS

STATUS

! Current Release Date

Planning Submittal

A A

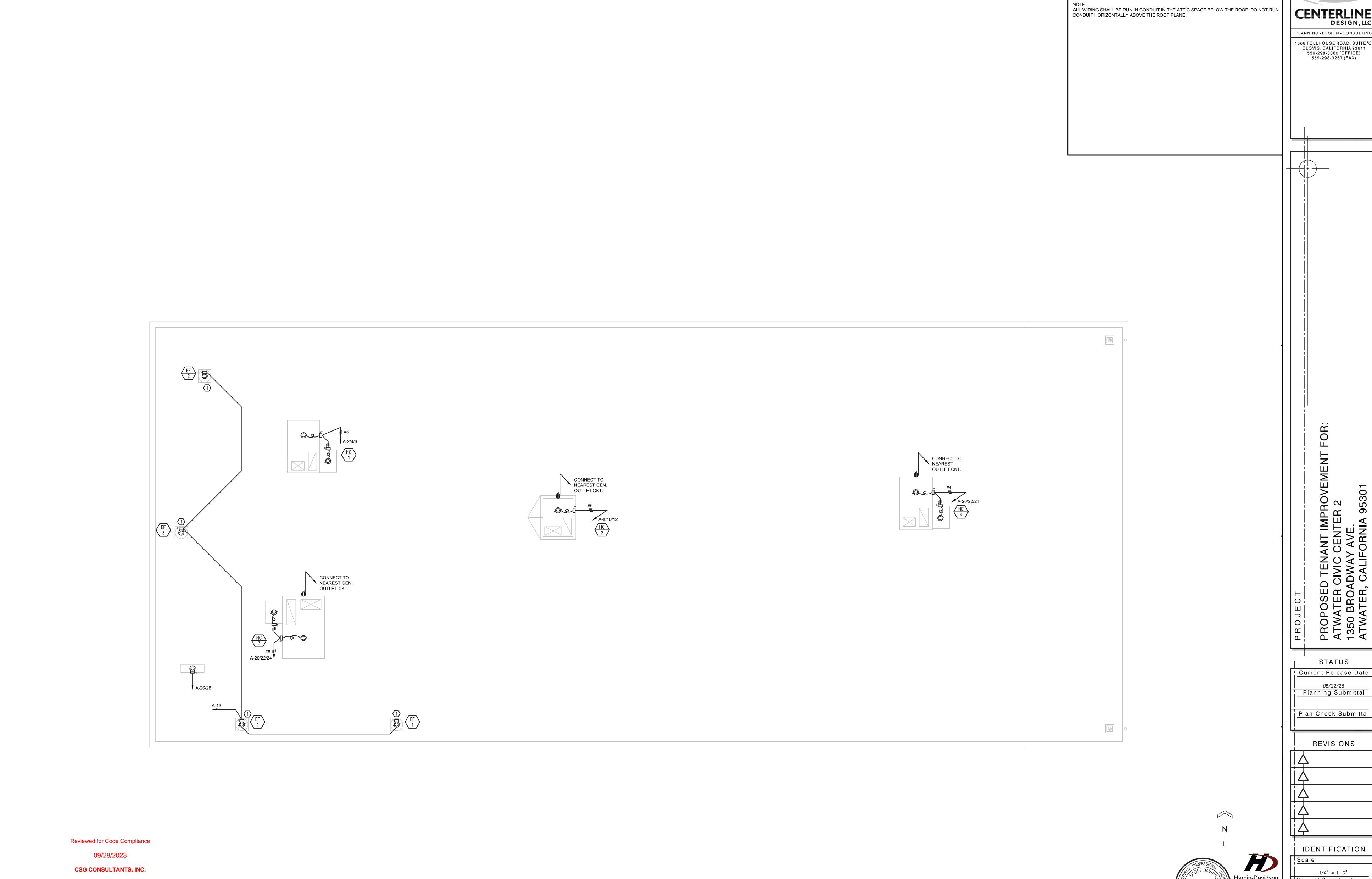
<u></u> Д

IDENTIFICATION

| Scale | I/4" = I'-0" | Project Coordinator | CHRIS WARD | Project No.

22-145

E-2.1



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THE WRITTEN CONSENT OF CENTERLINE DESIGN, LLC AND/OR CONSULTANTS.

. INTERLOCK 120V EXHAUST FAN CIRCUITING WITH CONTROLS SPECIFIED IN MECHANICAL DRAWINGS. DESIGN, LLC PLANNING - DESIGN - CONSULTING 1508 TOLLHOUSE ROAD, SUITE 'C' CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE)

KEY NOTES ○

STATUS ! Current Release Date 08/22/23 Planning Submittal

REVISIONS

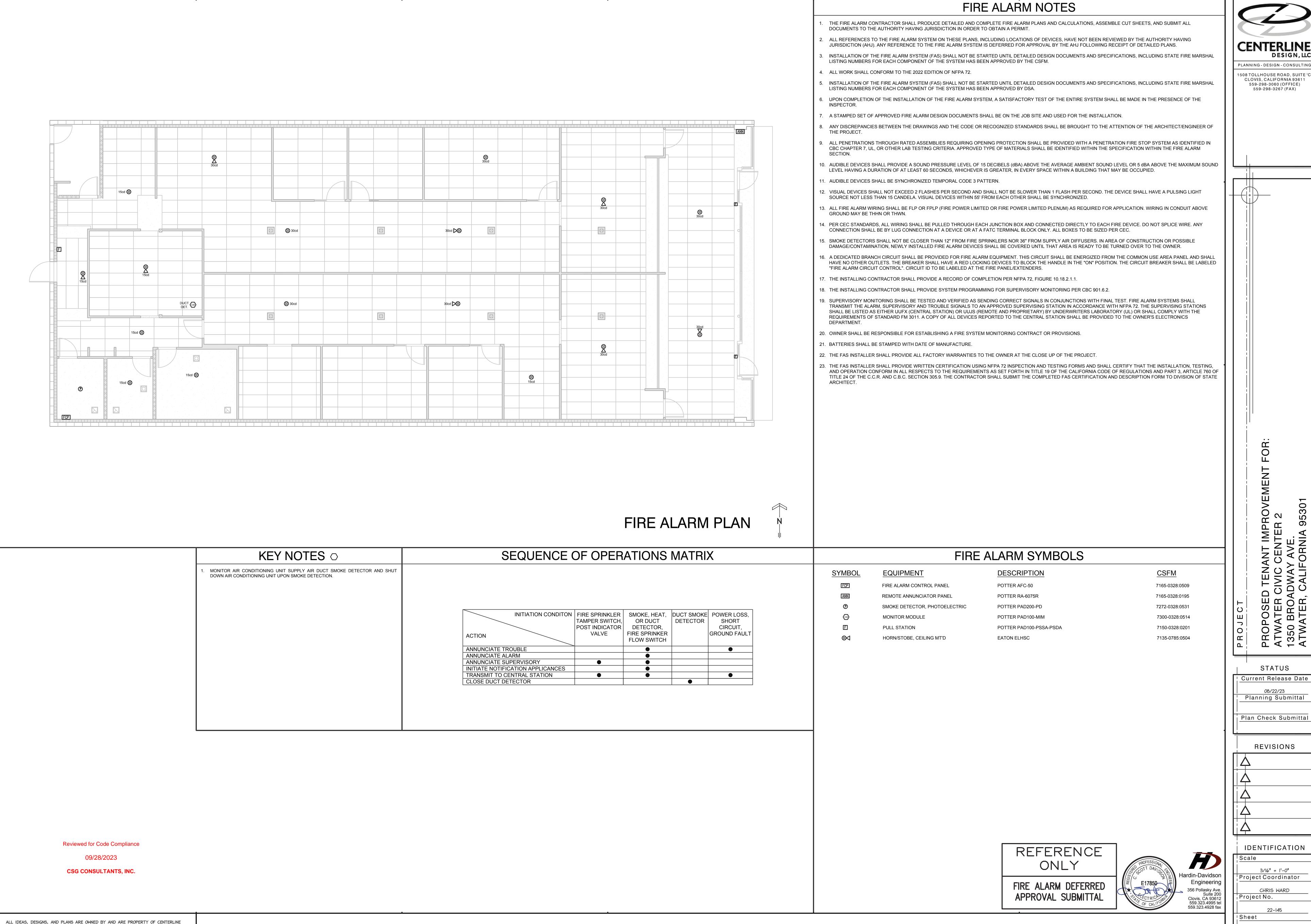
IDENTIFICATION

Project Coordinator CHRIS WARD Project No. 22-145

Sheet

356 Pollasky Ave. Suite 200 Clovis, CA 93612 559.323.4995 tel 559.323.4928 fax

ROOF ELECTRICAL PLAN



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PLANNING - DESIGN - CONSULTING

1508 TOLLHOUSE ROAD, SUITE 'C' CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)

Plan Check Submittal

Planning Submittal

STATUS

REVISIONS

IDENTIFICATION

3/16" = 1'-0" Project Coordinator CHRIS WARD Project No.

22-145 Sheet

FIRE ALARM PLAN

CALIFORNIA ENERGY COMMISSION CATE OF COMPLIANCE comment 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 idential 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	Indoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Project Address: 1350 Broadway Ave. Date Prepared: SALIFORNIA ENERGY COMMIS. REPORT Page: (Page 2 Project Address: 8/11/	TI-E (R) Project Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 3 of 8)	Indoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 4 of 8) Project Address: 1350 Broadway Ave. Date Prepared: 8/11/2023
Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 1 of 8) Address: 1350 Broadway Ave. Date Prepared: 8/11/2023	C. COMPLIANCE RESULTS	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	H. INDOOR LIGHTING CONTROLS (Not including PAFs)
NERAL INFORMATION oject Location (city) Atwater 04 Total Conditioned Floor Area (ft²) 5,600	If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts) Compliance Results	documented in Table T. If 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	This table includes lighting controls for conditioned and unconditioned spaces. Building Level Controls 01 02 03
mate Zone 12 05 Total Unconditioned Floor Area (ft²) 0 cupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) 1 1 1 1 1 1 1 1 1	Lighting in conditioned and unconditioned spaces must not be complete. Area Category Tailored Spaces must not be complete.	01 02 03 04 05 06 07 08 09 10 Name or Item Complete Luminaire Modular Aperture & Watts per How is Wattage Total Number 140.6(a)3 / Design Watts	Mandatory Demand Response 110.12(c) Shut-off controls 130.1(c) / 160.5(b)4C Field Inspector Pass Fail Required >= 4,000W subject to multilevel See Area/Space Level Controls
DJECT SCOPE		Tag Description (Track) Fixture Color Change ¹ luminaire ² determined of Luminaires 140.6(a) 57 170.2(e) 2C Pass Fail A/AS 43w Recessed LED No NA 43 Mfr. Spec 71 No 3,053 □ □ B 8.9w Recessed LED No NA 8.9 Mfr. Spec 8 No 71.2 □ □	Area Level Controls 04 05 06 07 08 09 10 11 12
ble 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 b)2 / 180.2(b)4 for alterations. Scope of Work Conditioned Spaces Unconditioned Spaces	(See Table I) (See Table II) (See Table II) (See Table III) (See Table IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	C1 9.6w LED No NA 9.6 Mfr. Spec 6 No 57.6	Area Description Complete Building or Area Controls Category Primary Function Category Primary Function Category Primary Function Area Controls 130.1(a) / 130.1(b) / 130.1(b) / 130.1(c) / 130.1(c) / 130.1(d) / 130.1(
01 02 03 04 05 My Project Consists of (check all that apply): Calculation Method Area (ft²) Calculation Method Area (ft²)	Unconditioned = ≥ Controls Compliance (See Table H for Details) COMPLIES Rated Power Reduction Compliance (See Table Q for Details)	D 25.5w Surface Mounted LED No NA 25.5 Mfr. Spec 2 No 51	160.5(b)4A 160.5(b)4B 160.5(b)4C 130.1(d)7 160.5(b)4D 170.2(e)2A Pass Fail
New Lighting System Complete Building Method 5600 Complete Building Method 0 New Lighting System - Parking Garage Total Area of Work (ft²) 5600 0	D. EXCEPTIONAL CONDITIONS	¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 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. ² Authority 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	Offices, Work Area, Break, Storage Office Accessible Office Accessible Dimmer Occupancy Sensor Included Incl
<u> </u>	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.		Restrooms Office Readily Accessible NA: Restrooms Occupancy Sensor NA: Rm <
	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	This section does not apply to this project.	Utilty Office Readily Accessible luminaire <= 2 Lamps Occupancy Sensor Lamps NA: Rm < NA: Rm
			Plan Sheet Showing Daylit Zones: E-2.0
tion Number: Generated Date/Time: Documentation Software: EnergyPro ling Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-7514-0823-0178	Registration Number: Generated Date/Time: Documentation Software: Energy CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-7514-0823-0		Registration Number: Generated Date/Time: Documentation Software: EnergyPro CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-7514-0823-0178
Schema Version: rev 20220101 Report Generated: 2023-08-11 15:17:40	Schema Version: rev 20220101 Report Generated: 2023-08-11 15:17 STATE OF CALIFORNIA		Schema Version: rev 20220101 Report Generated: 2023-08-11 15:17:40 STATE OF CALIFORNIA
Lighting CALIFORNIA ENERGY COMMISSION TE OF COMPLIANCE NRCC-LTI-E	Indoor Lighting CALIFORNIA ENERGY COMMISS. CERTIFICATE OF COMPLIANCE NRCC-	Indoor Lighting CALIFORNIA ENERGY COMMISSION CRETIFICATE OF COMPLIANCE CRETIFICATE OF COMPLIANCE	Indoor Lighting CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTI-E
ne: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 5 of 8) ress: 1350 Broadway Ave. Date Prepared: 8/11/2023	Project Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 6 Project Address: 1350 Broadway Ave. Date Prepared: 8/11/		Project Name:Proposed Tenant Improvement for: Atwater Civic Center 2Report Page:(Page 8 of 8)Project Address:1350 Broadway Ave.Date Prepared:8/11/2023
IG POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS	O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE	V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.
complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per adjustments per 140.6(a) are being used .	This section does not apply to this project.	Form/Title Systems/Spaces To Be Field Verified NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. Waiting Area; Offices, Work	Documentation Author Name: C. Scott Davidson Company: Signature Date:
01 02 03 04 05 06 rea Description Complete Building or Area Category Primary Function Area (W/ft²) Area (ft²) (Watts) Area Category PAF	P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.	Area, Break, Storage; Restrooms; Utilty; NRCA-LTI-03-A - Must be submitted for automatic daylight controls. Waiting Area, Offices, Work Area, Break, Storage; Restrooms; Utilty; Waiting Area;	Hardin-Davidson Engineering Address: CEA/ HERS Certification Identification (if applicable): E17850
Vhole Building Office 0.6 5,600 3,360 No No TOTALS: 5,600 3,360 See Tables J, or P for detail	Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS This section does not apply to this project.	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. Walting Area, Whole Building Demand Response;	City/State/Zip: Clovis CA 93612 RESPONSIBLE PERSON'S DECLARATION STATEMENT Phone: 559-323-4995
NAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM	R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS		I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements
METHOD GENERAL LIGHTING POWER ALLOWANCE	This section does not apply to this project.	→ →	 In energy reatures 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 or compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable
METHOD GENERAL LIGHTING POWER ALLOWANCE loes not apply to this project.	S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project.		5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: C. Scott Davidson
AL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY oes not apply to this project.	T. DWELLING UNIT LIGHTING This section does not apply to this project.		Company: Hardin-Davidson Engineering Date Signed: 2023-08-11 License: License:
NAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING	U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION		356 Pollasky Ave. E17850 City/State/Zip: Phone: 559-323-4995
oes not apply to this project.	Form/Title NRCI-LTI-E - Must be submitted for all buildings		
pes not apply to this project.	The Eff E Must be submitted for all buildings		
umber: Generated Date/Time: Documentation Software: EnergyPro	Registration Number: Generated Date/Time: Documentation Software: Energy	ro Registration Number: Generated Date/Time: Documentation Software: EnergyPro	Registration Number: Generated Date/Time: Documentation Software: EnergyPro
Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-7514-0823-0178 Schema Version: rev 20220101 Report Generated: 2023-08-11 15:17:40	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-08-11 15:17		CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-08-11 15:17:40
FORNIA r Lighting compliance nrcc-lto-e	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMIS. NRCC-I		STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE NRCC-LTO-E
nent is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for attachments in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using ptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.	Project Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 2 Project Address: 1350 Broadway Ave. Date Prepared: 8/11/	Project Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 3 of 7)	Project Name:Proposed Tenant Improvement for: Atwater Civic Center 2Report Page:(Page 4 of 7)Project Address:1350 Broadway Ave.Date Prepared:8/11/2023
e: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 1 of 7) ess: 1350 Broadway Ave. Date Prepared: 8/11/2023	C. COMPLIANCE RESULTS	F. OUTDOOR LIGHTING FIXTURE SCHEDULE	H. OUTDOOR LIGHTING CONTROLS
AL INFORMATION ct Location (city) Atwater	Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" r to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.	installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).	This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
ate Zone 12 Total Illuminated Hardscape Area (ft²) 3660 door Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):	Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Compliance Results 01 02 03 04 05 06 07 08 09 General Per Fer Specific Existing	Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. Designed Wattage:	Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings
ery Low - Undeveloped Parkland 🛛 LZ-2: Moderate - Urban Clusters 🔲 LZ-4: High - Must be reviewed by CA Energy Commission for Approval ow - Rural Areas 🔲 LZ-3: Moderately High - Urban Areas ancy Types within Project	Hardscape Allowance Hardscape Allowance Hardscape Hard	Name or Item Watts per How is Total Number Luminaire Excluded per 6,200 initial Inspector	Area Description Shut-Off Auto-Schedule Motion Sensor Field Inspector 130.2(c)1 / 160.5(c) 130.2(c)2 / 160.5(c) 130.2(c)3 / 160.5(c)
	(See Table I) (See Table I) (See Table II) (See Table III) (See Table IIII) (See Table IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Complete Luminaire Description Vattage determined Vattage determined Luminaires Status 140.7(a) / 170.2(e)6A Design Watts lumen output 130.2(b) / 160.5(c)14 Pass Fail Fa	Electrical Room Astronomical Timer Provided NA: Each Luminaire < 40 Watts **TFOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.**
Cludes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 141.0(b)2L / 180.2(b)4Bv for alterations.	Shielding Compliance (See Table G for Details) Controls Compliance (See Table H for Details) COMP	P1	² Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source. ³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.
Consists of: 01 02	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	P3 12w Surface Mounted LED ☐ Linear 12 Mfr. Spec 4 New ☐ 48 NA: < 6200 ☐ ☐ ☐	
www. Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 tered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No 03 04 05	E. ADDITIONAL REMARKS	* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)	
of Existing Luminaires Being Altered ¹ Sum Total of Luminaires Being Added or Altered Calculation Method >= 10% and < 50% >= 50%	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	1FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b) 2 For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. 3 Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scape that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of	
ed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires. 5: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.		for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope. 4 Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)	
,		G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.	
umber: Generated Date/Time: Documentation Software: EnergyPro	Registration Number: Generated Date/Time: Documentation Software: Energy	ro Registration Number: Generated Date/Time: Documentation Software: EnergyPro	Registration Number: Generated Date/Time: Documentation Software: EnergyPro
ergy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-7514-0823-0178 Schema Version: rev 20220101 Report Generated: 2023-08-11 15:17:40	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-7514-0823-0 Schema Version: rev 20220101 Report Generated: 2023-08-11 15:17		CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-7514-0823-0178 Report Generated: 2023-08-11 15:17:40
RNIA ighting CALIFORNIA ENERGY COMMISSION F COMPLIANCE NRCC-LTO-E	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE CRITICATE OF COMPLIANCE NRCC-I		
Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 5 of 7) 1350 Broadway Ave. Date Prepared: 8/11/2023	Project Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 6 Project Address: 1350 Broadway Ave. Date Prepared: 8/11/	Project Name: Proposed Tenant Improvement for: Atwater Civic Center 2 Report Page: (Page 7 of 7)	
,			
OWER ALLOWANCE (per 140.7 / 170.2(e))	M LIGHTING ALLOWANCE: DED SDECIEIC ADEA	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	1 1:
udes areas using allowance calculations per 140.7 / 170.2(e). General powance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" "Use it or lose it" Allowance (select all that apply) Select all that apply) Select all that apply	M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: C. Scott Davidson Documentation Author Signature:	
des areas using allowance calculations per 140.7 / 170.2(e). General wance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" "Use it or lose it" Allowance (select all that apply) (select all that apply) "Use it or lose it" Allowance (selec		I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: C. Scott Davidson Company: Hardin-Davidson Engineering Address: Documentation Author Signature: Signature Date: 2023-08-11 CEA/ HERS Certification Identification (if applicable):	
Sales Frontage Sales Frontage Table Land are not included here. All other multifamily in gis included here. Included here Included h	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)	I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: C. Scott Davidson Company: Hardin-Davidson Engineering Address: 356 Pollasky Ave., Suite 200 City/State/Zip: Clovis CA 93612 Company: Signature Date: 2023-08-11 CEA/ HERS Certification Identification (if applicable): E17850 Phone: Clovis CA 93612	
Indudes areas using allowance calculations per 140.7 / 170.2(e). General Illowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Illowance is per Table 140.7-B/Table 170.2-S. Indicate which allowances are being and sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowance. In an are included in Table H. and are not included here. All other multifamily ing is included here. Illuminated Area Allowance Allowanc	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.	I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: C. Scott Davidson Company: Hardin-Davidson Engineering Address: 356 Pollasky Ave., Suite 200 City/State/Zip: Phone:	
Sales Frontage Ornamental Table Ornamental	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project. O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Form/Title	Certify that this Certificate of Compliance documentation is accurate and complete.	
Sales Frontage Sales Frontage Table I (below) Total General (bel	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project. O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Form/Title NRCI-LTO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Form/Title Systems/Spaces To Be File Verified	Certify that this Certificate of Compliance documentation is accurate and complete.	
Company Comp	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project. O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Form/Title NRCI-LTO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Systems/Spaces To Be Fi	Certify that this Certificate of Compliance documentation is accurate and complete.	
Allowance is per Table 140.7-A/Table 170.2-R. while "Use it or lose it" allowance (sleet all that apply) (select all that appl	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project. O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Form/Title NRCI-LTO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Form/Title Systems/Spaces To Be File Verified	Certify that this Certificate of Compliance documentation is accurate and complete.	Reviewed for Code Compliance
Allowance is per Table 140.7-/170.2(e). General Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" and sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowance is per Table 140.7-B/Table 170.2-S. Indicate which allowances are being and sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowance. Hardscape Allowance is per Table 140.7-B/Table 170.2-S. Indicate which allowances are being and sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowance is per Table 140.7-B/Table I (Indicate which allowance is per Table 140.7-B/Table I (Indicate is it or lose it" allowance is per Table I (Indicate is it or lose it" allowance is per Table I (Indicate is it is it or lose it" allowance is per Table I (Indicate is it is it is it or lose it" allowance is it	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project. O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Form/Title NRCI-LTO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Form/Title Systems/Spaces To Be File Verified	I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: C. Scott Davidson Company: Hardin-Davidson Engineering Signature Date: 2023-08-11 Address: 356 Pollasky Ave., Suite 200 E17850 City/State/Zip: Clovis CA 93612 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjuny, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance is true and correct. 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California code of Regulations. 4. The building design features or system design features or system design identified on this Certificate of Compliance accompliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance are consistent with the binding permit policians. Responsible Designer Name: C. Scott Davidson Company: Hardin-Davidson Engineering 2023-08-11 Address: 356 Pollasky Ave.	00/28/2022
sare per Table 140.7-B /Table 170.2-S. Indicate which allowances are being pand sections for user input. Luminaires that qualify for one of the "Use it or ownness shall not qualify for another "Use it or lose it" allowance. ghting attached to multifamily buildings and controlled from the inside of a nit are included in Table H. and are not included here. All other multifamily ghting is included here. General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel O2	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project. O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Form/Title NRCI-LTO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Form/Title Systems/Spaces To Be File Verified	Certify that this Certificate of Compliance documentation is accurate and complete.	09/28/2023 CSG CONSULTANTS, INC. Hardin-Davidson
Allowance is per Table 140.7-A/Table 170.2-R, while "Use it or lose it" Allowance (select all that apply) (select all that apply (select all that apply (select all that apply) (se	This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project. O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Form/Title NRCI-LTO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Form/Title Systems/Spaces To Be File Verified	I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: C. Scott Davidson Company: Hardin-Davidson Engineering 2023-08-11 Advirsus 356 Pollasky Ave., Suite 200 E17850 CRy/State/Zip: Clovis CA 93612 RESPONSIBLE PERSON'S DECLARATION STATEMENT 1 certify the following under penalty of perjuy, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance conform to the requirements. 3. The energy Seature asing performance specifications, and results. Components with the information provided on the Certificate of Compliance conform to the requirements. 4. The building design fostures or system design features design identified on this Certificate of Compliance conform to the requirements. 5. I will ensure that a completed signed copy of this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agent for approximal with this building permit(s) issued for the building, and made available with the building permit(s) issued for the building warm and accept and permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the building permit application. 6. Scott Davidson 6. Scott Davidson 6. Costot Davidson 7. Person Scott Davidson 8. Scott Da	09/28/2023 CSC CONSULTANTS INC

PLANNING - DESIGN - CONSULTING 1508 TOLLHOUSE ROAD, SUITE 'C' CLOVIS, CALIFORNIA 93611 559-298-3060 (OFFICE) 559-298-3267 (FAX)