GENERAL DEMOLITION NOTES

- 1. THE DEMOLITION NOTE REFERENCE PERTAIN TO ALL RELATED SHEETS WHERE EXISTING ELECTRICAL WORK IS INDICATED.
- 2. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND MAKE THEMSELVES COMPLETELY FAMILIAR WITH THE EXISTING INSTALLED CONDITIONS.
- 3. ALL EQUIPMENT OR WORK REQUIRED TO CARRY OUT THE DEMOLITION SCOPE OF WORK IS CONSIDERED TO BE PART OF THE CONTRACTOR SCOPE OF WORK. NO EXTRAS WILL BE CONSIDERED TO PERFORM THE REQUIRED WORK.
- 4. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE FACILITY DIRECTOR PRIOR TO THE SCHEDULING OF ANY POWER OUTAGE. SUCH PERMISSION MUST BE OBTAINED IN WRITING AND BE GRANTED AT LEAST 7 DAYS PRIOR TO ANY SCHEDULE SHUT DOWN. THE SHUT DOWN SHALL NOT EXCEED A DURATION OF 4 HOURS.
- THE CONTRACTOR SHALL NOT STORE ON SITE ANY ITEMS THAT WERE DEMOLISHED FOR ANY EXTENDED PERIOD OF TIME, WITHOUT THE WRITTEN PERMISSION OF THE CAMPUS FACILITY DIRECTOR.
- ALL ELECTRICAL ITEMS DESIGNATED AS EXISTING TO REMAIN SHALL AS PART OF THIS SCOPE OF WORK BE CLEANED AND TESTED, TO INSURE PROPER OPERATION. ANY ITEMS THAT FAIL TO PASS THE TEST SHALL BE BROUGHT TO THE ATTENTION OF THE FIELD INSPECTOR AND THE ENGINEER OF RECORD FOR RESOLUTION.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING SWITCHBOARDS, DISTRIBUTION BOARDS, PANEL BOARDS, LIGHTING FIXTURES, CONDUITS, WIRES AND OTHER ELECTRICAL APPARATUS DESIGNATED AS EXISTING TO BE REMOVED. DEMOLITION ITEMS. IF NOT REQUIRED TO BE SALVAGED BY OWNER, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER.
- 8. THE CONTRACTOR SHALL REMOVE ALL CONDUITS SERVING DEVICES WHICH ARE DESIGNATED AS EXISTING TO BE REMOVED, BACK TO THE SOURCE WHEN POSSIBLE IF THE NATURE OF THE EXISTING INSTALLATION WILL NOT ALLOW REMOVAL THE CONTRACTOR SHALL REMOVE ALL EXPOSED CONDUIT AND ABANDON THE REMAINDER AFTER REMOVING ALL CONDUCTORS.
- DEMOLITION AND/OR REMOVAL OF ELECTRICAL EQUIPMENT IN AREAS TO BE REMODELED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. WHERE OUTLETS ARE REMOVED IN EXISTING WALL, REMOVE DEVICES, OUTLETS AND WIRING BACK TO PANELBOARD OR BACK TO NEAREST OUTLET WITH OTHER EXISTING LOAD TO REMAIN.
- 11. WHERE EXISTING CONDUIT AND CONDUCTORS ARE TO BE REMOVED AND CONDUIT IS INSTALLED IN GROUND OR EMBEDDED IN CONCRETE, REMOVE WIRE AND CUT
- CONDUIT TO BELOW FLOOR, PLUG CONDUIT, PATCH FLOOR AND ABANDON CONDUIT. 12. WHERE ELECTRICAL DEVICES ARE TO BE REMOVED, REMOVE ALL CONDUIT AND
- COVER PLATE FOR ABANDONED JUNCTION BOXES. 13. REMOVE ALL CONTROL PANELS, EQUIPMENT RACKS, PULL-BOXES, TERMINAL

CONDUCTORS BACK TO SOURCE, TERMINAL CABINETS AND RACKS, PROVIDE BLANK

- CABINETS, ETC. FOR SYSTEMS TO BE DEMOLISHED EXCEPT WHERE ANY OF THE EXISTING DEVICES, SYSTEMS, CONSOLES, ETC. ARE TO BE REUSED FOR UPGRADE.
- 14. PROVIDE BLANK COVER PLATE FOR ALL EMPTY OUTLET BOXES WHERE DEVICES AND/OR CONDUCTORS HAVE BEEN REMOVED AS PART OF THIS CONTRACT.
- 15. AFTER REMOVAL OF WIREMOLD AND ASSOCIATED FITTINGS. PATCH. REPAIR AND PAINT AFFECTED SURFACES TO MATCH EXISTING.
- 16. EXISTING CONDUIT CAN BE REUSED PROVIDING IT IS CHECKED FOR CONTINUITY OF GROUND, BLOWN FREE OF DEBRIS, AND DOES NOT INTERFERE WITH NEW
- 17. REMOVALS AND REPAIRS TO EXISTING ELECTRICAL WORK REQUIRED TO AVOID CONFLICTS WITH NEW CONSTRUCTION TO MEET MINIMUM CODE REQUIREMENTS.
- 18. A FIELD SURVEY VERIFICATION IS MANDATORY IN ORDER TO SUBMIT AN ELECTRICAL BID, FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING
- MEP COMPONENT ANCHORAGE NOTE

THE WORK OF THIS CONTRACT.

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS
- EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE. 3. TEMPORARY. MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL

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

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTION SYSTEMS DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

ELECTRICAL SYMBOLS LIST

NOT ALL SYMBOLS APPLY TO THIS PROJECT;
DISREGARD THOSE NOT USED ON PLANS AND IN DETAILS. SYMBOLS REPRESENT EQUIPMENT AND OUTLET BOXES TO WHICH CONDUIT AND WIRE IS RUN FOR CONNECTION TO FIXTURES AND DEVICES. GENERAL DESCRIPTION SYMBOL GENERAL DESCRIPTION 2' X 2' LED FIXTURE.

SURFACE OR CEILING MOUNTED LED FIXTURE. (USE 1-1/2" SPACERS ON COMBUSTIBLE CEILING) • LED FIXTURE SUSPENDED BELOW CEILING

(MOUNT AT DESIGNATED HEIGHT ABOVE FLOOR) ----- LED STRIP LIGHT

WALL MOUNTED FIXTURE

1' X 4' LED FIXTURE.

LED OR HID FIXTURE RECESSED IN CEILING (KEEP J-BOX ACCESSIBLE FROM WITHIN FIXTURE)

LED OR HID FIXTURE WALL MOUNTED (CONFIRM HEIGHT OF OUTLET)

LIGHT FIXTURE WITH EMERGENCY BACKUP BATTERY. CONNECTED TO EMERGENCY POWER SYSTEM.

LIGHTED EXIT SIGN. CEILING, WALL MOUNTED OR RECESSED RROW SHOWS ROUTE TO LEGAL EXIT)

CEILING MOUNTED JUNCTION BOX, WITH COVER (4" SQUARE, DEEP, WITH PLASTER RING)

JUNCTION BOX, WALL MOUNTED, WITH COVER, +18"

SINGLE OUTLET RECEPTACLE, RATING AND CONFIGURATION AS NDICATED ON PLAN. MOUNT AT20 AMP, 120 VOLT, COVER PLATE PER ARCHITECT INSTRUCTION +18" AFF

DUPLEX RECEPTACLE, FLUSH IN WALL, GROUNDING TYPE +18"AFF (20 AMP, 120 VOLT, COVER PLATE PER ARCHITECT INSTRUCTION)

DOUBLE DUPLEX RECEPTACLE, FLUSH IN WALL +18"AFF (20 AMP, 120 VOLT COVER PLATE PER ARCHITECT INSTRUCTION.)

DUPLEX RECEPTACLE, WITH GROUND FAULT CIRCUIT INTERRUPTER AS IDENTIFIED IN CEC 210.8 (20 AMP. 120 VOLT, 3W)

(WHEN W.P IS INDICATED, PROVIDE WEATHER PROOF TYPE)

DOUBLE DUPLEX RECEPTACLE, WITH ISOLATED GROUND, FLUSH IN WALL +18"AFF (20 AMP. 120 VOLT)

SPECIAL RECEPTACLE, MTD. AT +18" AFF, UON (NEMA CONFIGURATION AS SHOWN ON DRAWINGS)

DUPLEX RECEPTACLE, FLUSH IN WALL, GROUNDING TYPE MOUNTED 44 INCHES ABOVE FINISHED FLOOR (20 AMP, 120 VOLT, COVER PLATE PER ARCHITECT INSTRUCTION)

TELEVISION OUTLET BOX 4S, MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N. STUB 3/4" C.O. 6" ABOVE CEILING SPACE, PROVIDE BUSHING AND PULL WIRE. IF INSTALLED IN AREA WITH EXPOSED STRUCTURE ABOVE OR HARD LID CEILING. PROVIDE 3/4" C.O. BACK TO LOCATION OF CABLE TELEVISION TERMINAL OR COMMUNICATIONS

DOUBLE DUPLEX RECEPTACLE OUTLET, 20A 120 VOLT FLUSH IN FLOOR WITH HINGED BRASS COVER.

DATA WITH 2 DATA OUTLETS. FLUSH IN FLOOR
WITH HINGED BRASS COVER AND MINIMUM 1" C.O TO IDF CABINET

DATA WITH 2 DATA OUTLETS. CEILING MOUNTED

CONDUIT SEAL

NEUTRAL BUS

GROUND BUS

GROUND CONNECTION TO MAIN BLDG GROUND BUS

DATA OUTLET FLUSH IN WALL +18" WITH MINIMUM 3/4"C.O. TO NEAREST COMM PULLBOX. TELEPHONE OUTLET, FLUSH IN WALL, +18" WITH MINIMUM 3/4"C.O. TO TTB.

MIRELESS ACCESS POINT JUNCTION BOX, CEILING MOUNTED.

TERMINAL BOARD OF 3/4" THICK PLYWOOD ON WALL (SIZE AS NOTED, PAINT TO MATCH WALL)

THERMOSTAT, OUTLET, WALL MOUNTED, +48"

(LOCATE SYMMETRICALLY WITH OTHER DEVICES) SWITCH, FLUSH IN WALL, TOGGLE, SINGLE-POLE S.T. +42" SUBSCRIPT DENOTES UNIT CONTROLLED)

LED DIMMER SWITCH, FLUSH IN WALL, TOGGLE, SINGLE-POLE S.T. +42" SUBSCRIPT DENOTES UNIT CONTROLLED)

MICRO RELAY PANEL(4-RELAYS) LIGHTING CONTROL AND DESIGN #GR2404, OR EQUAL TO MATCH EXISTING BUILDING LIGHTING CONTROL SYSTEM SEE DWGS E7.1 AND E7.2 FOR LOW VOLTAGE CONNECTION DETAILS

EMERGENCY LIGHTING SHUNT RELAY LISTED WITH UL924 LIGHTING CONTROL AND DESIGN #GR2001, OR EQUAL

SWITCH, FLUSH IN WALL, TOGGLE, TWO-POLE S.T. +42"

SWITCH. FLUSH IN WALL. THREE WAY +42" CONNECT TO MATCHING SWITCH FOR 3-WAY USE)

SWITCH, FLUSH IN WALL, FOUR WAY +42"

(CONNECT TO MATCHING SWITCHES FOR 3-4 WAY USE) SWITCH, FLUSH IN WALL, KEY OPERATED

SWITCH, FLUSH IN WALL, MOMENTARY CONTACT, S.P.S.T.

SWITCH, FLUSH IN WALL, WITH PILOT LIGHT

(ENGRAVE PLATE WITH ITEM CONTROLLED) MOTOR STARTER, WITH THERMAL OVERLOADS

(POLES, NOTED, HORSEPOWER RATED)

WEATHERPROOF SWITCH.

COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR-STARTER, THERMAL OVERLOADS, 600V 3 POLES FVNR UON, NUMBER INDICATES NEMA SIZE(PROVIDE AUXILIARY CONTACTS & CONTROL TRANSFORMER)

NOT FUSE DISCONNECT SWITCH, MANUAL EXO, H.P. RATED ("F" MEANS FUSED TO AMPERE RATING MARKED) HEAVY DUTY DISCONNECT SWITCH HORSE POWER RATED 600V, 3 POLE "F" MEANS FUSED TO AMPERE RATING MARKED INDICATE FUSE TYPE AS INDICATED OR PER MANUFACTURER

RECOMMENDATIONS OUTLET FOR MOTOR; CONFIRM DIRECTION OF ROTATION (PROVIDE FLEXIBLE CONNECTION TO J-BOX FROM MOTOR)

CIRCUIT BREAKER OF POLES, VOLTS, TRIP-AMPS NOTED (CONFIRM INTERRUPTING CAPACITY NEEDED)

PULL BOX, CONFIRM ACTUAL SIZE AND LOCATION WITH USER.

LOW VOLTAGE LIGHT DIMMER +42"ABOVE FINISHED FLOOR U.O.N. SEE SHEET 4-E401 FOR MORE DETAILS. ab = ZONE NUMBER "a" AND "b" THAT CONTROL THE

LOW VOLTAGE/TIMER SWITCH. +42"ABOVE FINISHED FLOOR -LOW VOLTAGE CONNECTION TO ROOM CONTROLLER. ab = ZONE NUMBER "a" AND "b" THAT CONTROL THE LUMINARIES

CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRAL POWER UNITS-LOW VOLTAGE CONNECTION TO ROOM CONTROLLER. ab = ZONE NUMBER"a" AND "b" THAT CONTROL THE LUMINAIRE

PHOTOCELL SENSOR - CEILING MOUNTED-LOW VOLTAGE CONNECTION TO ROOM CONTROLLER ab = ZONE NUMBER "a" AND "b" THAT CONTROL THE LUMINARIES

ROOM CONTROLLER - LIGHTING CONTROL. ab = ZONE NUMBER "a" AND "b" THAT CONTROL THE LUMINARIES ROOM CONTROLLER - RECEPTACLE CONTROL.

LUMINAIRE MARKING CONVENTION LEGEND: 0 F1 = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE SCHEDULE.

q = ONE NUMBER/LOWER LETTER INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE

TRANSFORMER

MOUNTING HEIGHTS IN SYMBOL LIST APPLY UNLESS OTHERWISE NOTED ON DRAWINGS.

<u>SYMBOL</u> **GENERAL DESCRIPTION**

---- CONDUIT STUB-UP WITH COUPLING FLUSH IN FLOOR

--- DISCONNECT SWITCH & FUSE, DIAGRAMMATIC

(TO PERMIT FUTURE REMOVAL) ---- CONDUIT CONCEALED IN OR UNDER FLOOR: OR UNDERGROUND (CONFIRM DEPTH; GRADE TO DRAIN INTO PULL BOXES)

- 3/4" CONDUIT WITH 2#12 WIRES AND 1#12 GND. ALL WIRING TO BE CU. THHN GROUND PER NEC 250-122 (B)

CONCEALED IN $\frac{1}{12}$ 3/4" CONDUIT WITH 6#12 WIRES AND 1#12 GND. 1#12 ISOLATED GROUND

1#12 ISOLATED GROUND NUMBER INDICATES GAUGE OF WIRE IN CODE SIZED CONDUIT. ## A-1,3 HOMERUN TO CIRCUITS #1 & #3 IN PANEL "A"

(CROSSMARKS INDICATE NUMBER OF WIRES) ------- CONDUIT DROPPING DOWN FROM RUN (IF CONDUIT IS USED KEEP COVER ACCESSIBLE)

CONDUIT RISING UP FROM RUN (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE) GROUND CONNECTION WITH ACCESSIBLE CLAMP

(TO COLD WATER PIPE OR DRIVEN GROUND ROD) PULL BOX WITH SCREW HELD METAL COVER PLATE (DIMENSIONS CODE—SIZED UNLESS NOTED)

BRANCH PANELBOARD. WALL MOUNTED. SEE SCHEDULE DISTRIBUTION SUB-SWITCHBOARD, SEE SCHEDULE

SWITCHBOARD, POWER OR LIGHT, FLOOR STANDING, ENCL. ONE LINE DIAGRAM & LOAD SUMMARY) PULL SECTION FOR UNDERGROUND SERVICE TO SWITCHBOARD (PROVIDE PERFORATED SCREW HEADS FOR UTILITY SEAL) CONTROL PANEL WITH DEVICES SHOWN OR DESCRIBED

(MOUNT DEVICES INDEPENDENT FROM HINGED COVER) — T — 3/4"C.O. FOR TELEPHONE SYSTEM. — D — 3/4" C.O. FOR DATA OUTLET

NUMBERED NOTE FOR SHEET WHERE SHOWN

REFERENCE NOTE

101 ROOM NUMBER OR AREA DESIGNATION

DETAIL DESIGNATION FOR ITEM & DRAWING NUMBER

(E) **EXISTING TO REMAIN.**

EXISTING CONDUIT AND CONDUCTORS TO REMAIN

EXISTING CONDUIT AND CONDUCTORS, REMOVE CONDUCTORS.

REMOVE CONDUIT ELEVATOR PIT/SHAFT LIGHT WITH SWITCH AND RECEPTACLE. LIGHT SHALL BE 100W INCANDESCENT LIGHT FIXTURE 6-1/2"x4-1/2" WALL BRACKET CYLINDER WITH

WIRE GUARD A19-100W UFER GROUND 1#4/0, 40' MINIMUM

LOADS IN KVA

DOOR NEMA1

CABLE TRAY.

225B FEEDER SCHEDULE REFERENCE — FLOOR DESIGNATION

J- BOX FOR TV OUTLETS FLUSH MOUNTED IN WALL +18" FOR

SECURITY TERMINAL CARBINET 18"Wx18"Hx6"D WITH LOCKABLE

OFFICES AND CONFERENCE ROOM AND AT +90" FOR OTHER AREA

UNLESS NOTED OTHERWISE WITH MINIMUM 3/4"C.O. TO NEAREST

TWO OR THREE COMPARTMENT SURFACE METAL RACEWAY WITH RECEPTACLES AND OUTLETS AS INDICATED, LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL FITTINGS AS REQUIRED. WIREMOLD ALA4800 SERIES OR EQUAL.

ABBREVIATION

ABOVE FINISHED FLOOR CONDUIT ONLY DISTRIBUTION PANEL **EMERGENCY** EXHAUST FAN **EXISTING** FIRE ALARM FLUOR LED GROUND HORSEPOWER RATING J-BOX JUNCTION BOX KILO AMPERES KILOWATT KILO-VOLT AMPS LIGHTING "LONG CONTINUOUS LOAD" LUGS ONLY LOW VOLTAGE METAL BOX 4-11/16" SQUARE

(X) 2-1/8" DEEP MH MOUNTING HEIGHT (TO BOTTOM OF FIXTURE) (+)X'-Y" MOUNTING HEIGHT (TO CENTER OF DEVICE)

(E)

GND HP

KA

KW

KVA

LCL

LV

L.O.

GFI/GFCI GROUND FAULT CIRCUIT INTERRUPTER PER CEC 210.8. MOMENTARY CONTACT ACTION MAIN LUG ONLY NATIONAL ELECTRICAL CODE NEC

NIGHT LIGHT NOT IN CONTRACT NOT TO SCALE PANEL BOARD PHOTO ELECTRIC CELL SATIN ALUMINUM SATIN STAINLESS STEEL HOA "HAND OFF AUTOMATIC TELEPHONE

TIME SWITCH CONTROL TRANSF TRANSFORMER TWIST-LOCK CONSTRUCTION **TYPICAL** (X) - EXISTING FIRE ALARM

DEVICE/EQUIPMENT TO BE REMOVED EXISTING DEVICE MOUNTING BOX AND WIRING MAY BE REUSED AS JUNCTION BOX WHERE POSSIBLE. ELECTRICAL CONTRACTOR TO PROVIDE J-BOX COVER PLATE AND HANGING STRAP

UNLESS OTHERWISE NOTED VOLTS WEATHERPROOF CONSTRUCTION WEATHERTIGHT CONSTRUCTION WHITE BAKED ENAMEL WHITE PORCELAIN ENAMEL (XR) REMOVE RELOCATE AS SHOWN EXISTING DEVICE TO BE REPLACED

ABOVE CEILING

ELECTRICAL **DRAWING LIST**

HEAT DETECTOR TO BE PLACED

ELECTRICAL LEGENDS AND ABBREVIATIONS ELECTRICAL PANEL SCHEDULES AND PARTIAL SINGLE LINE DIAGRAM E-101D ELECTRICAL DEMOLITION PLAN POWER PLAN

E-102 ROOF PLAN LIGHTING PLAN E-111 ELECTRICAL DETAILS E-201 ELECTRICAL TITLE 24 FORMS

IDENTIFICATION STAMP **AUTHORITY APPROV** DIV. OF THE STATE ARCHITEC APP: 04-121721 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/10/2023

DESIGN

LISTEN COLLABORATE CREATE

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ARCHITECT STAMP

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2866 BIRCH LN. **POMONA, CA 91767** (213) 503-2332

> CONSULTANT STAMP No. E-21695 Exp. 12-31-24

PROJECT OWNER:



2820 Clark Ave, Norco, CA 92860

(951) 736-5000

CORONA FUNDAMENTAL INTERMEDIATE SCHOOL - MPR

1230 S Main St, Corona, CA 92882

RENOVATION

DESCRIPTION 9/2022 DSA SUBMITTAL 03/24/2023 DSA BACK-CHECK

22063.01

PROJECT NO.:

SHEET TITLE: **ELECTRICAL** COVER

SHEET

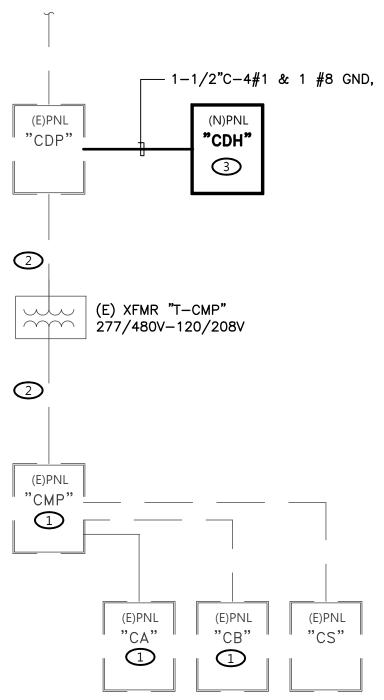
E-001

DAT	E:	İ		26-Feb-23				PANEL PHASE				208/120\ 3PH, 4W		CIRCU	IIT CODE	: 1=(CONTINUOUS) 2=(NON-CONTINUOUS)				
PAN				(E)CA				COPPE		•		100A	•			3=(RECEPTACLES)				
	RATIN	G.	•	10,000				MAINS				MLO				4=(KITCHEN)	NΟ	OF EQ	IIID=	
	KT	c.	R	LOAD DESIGNA	TION			LOAD		PHASES	<u> </u>	LOAD			LOAD	DESIGNATION		B	СК	—— (Т
	CODE			DESCRIPTION	MISC	REC	LITE	VA	Α	В	С	VA	LITE	REC		DESCRIPTION	+	TRIP	-	1
1		20	1	(E)EXHAUST FAN					0					1120		EXISTING LOAD	1	20		2
3		20	1	(E)EXHAUST FAN						0						EXISTING LOAD	1	20		4
5		20	1	(E)EXHAUST FAN							0					EXISTING LOAD	1	20		6
7		20	1	EXISTING LOAD					0							EXISTING LOAD	1	20		8
9		20	1	EXISTING LOAD						0						EXISTING LOAD	1	20		10
11		20	1	EXISTING LOAD							0					EXISTING LOAD	1	20		12
13		20	1	EXISTING LOAD					0							EXISTING LOAD	1	20		14
15		20	1	EXISTING LOAD						0						EXISTING LOAD	1	20		16
17		20	1	EXISTING LOAD							0					EXISTING LOAD	1	20		18
19		20	1	EXISTING LOAD					0							(E)GYM LIGHTING	1	20		20
21		20	1	EXISTING LOAD						0						(E)GYM LIGHTING	1	20		22
23		20	1	EXISTING LOAD							0					(E)GYM LIGHTING	1	20		24
25	2	20	1	OFFICE 33 RECEPT		5		900	1800			900		5		BREAKOUT SPACE RECEPT	1	20	2	26
27	1	20	1	CLASSROOM 33 LIGHTING				1005		1725		720		4		CLASSROOM 37 RECEPT	1	20	2	28
29				SPACE							720	720		4		SPARE	1	20	2	30
								TOTAL	1800	1725	720	CONNE	CTED I	(VA		4.2				
												CONN.	(VA (C	ODE 1)		1.0				
												CONN.	(VA (C	ODE 2)		3.2				
												CONN.	(VA (C	ODE 3)		0.0				
												CONN.	(VA (C	ODE 4)		0.0				
												TENAN	Γ ALLC	WANC	E KVA	0.0				
												SPARE	(DECIN	MAL)			SPARE	EKVA	0.0	
												FEEDEF	R DEMA	AND K	/A	4.5				
												FEEDER	R DEMA	AND AN	/IPS	12.5				
												X'FMR.	KVA			4.2				

DAT	Ē:			26-Feb-23				PANEL	VOLTA	GE:		208/120\	/	CIRCL	IT CODE	: 1=(CONTINUOUS)				
LOC	OITAC	N						PHASE	& WIRE	:		3PH, 4W	/			2=(NON-CONTINUOUS)				
PAN	NEL:			(E)CB				COPPE	R BUS:			60A				3=(RECEPTACLES)				
AIC	RATIN	NG:	'	10,000				MAINS	CB:			MLO				4=(KITCHEN)	NO.	OF EQ	QUIP=	
C	СКТ	(В	LOAD DESIGNA	TION			LOAD		PHASES	3	LOAD			LOAD	DESIGNATION	C	В	СК	T
NO.	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	Α	В	С	VA	LITE	REC	міѕс	DESCRIPTION	POLE	TRIP	CODE	NO.
1		20	1	(E)EXHAUST FAN					0							EXISTING LOAD	1	20		2
3		20	1	(E)EXHAUST FAN						0						EXISTING LOAD	1	20		4
5		20	1	(E)EXHAUST FAN							0					EXISTING LOAD	1	20		6
7		20	1	EXISTING LOAD					0							EXISTING LOAD	1	20		8
9		20	1	EXISTING LOAD						0						EXISTING LOAD	1	20		10
11		20	1	EXISTING LOAD							0					EXISTING LOAD	1	20		12
13		20	1	(E)ED TECH RECEPT					0							SPACE				14
15	3	20	1	DRINKING FTN/PROJECTOR		2		380		380						SPACE				16
17	1	20	1	CLASSROOM 2 LIGHTING				939			939					SPACE				18
19				SPACE					0							SPACE				20
21				SPACE						0						SPACE				22
23				SPACE							0					SPACE				24
								TOTAL	0	380	939	CONNE	CTED I	(VA		1.3				
												CONN.I	(VA (C	ODE 1)		0.9				
												CONN.I	(VA (C	ODE 2)		0.0				
												CONN.	(VA (C	ODE 3)		0.4				
İ												CONN.I	(VA (C	ODE 4)		0.0				
												TENAN	T ALLC	WANC	E KVA	0.0				
												SPARE	(DECI	/IAL)			SPARE	KVA	0.0	
												FEEDE	R DEMA	AND K	′ A	1.6				
												FEEDE	R DEMA	AND A	/IPS	4.3				
												X'FMR.	KVA			1.3				

DAT				22-Mar-23			PANEL '	VOLTAC	3E:		208/120\		CIRCU	JIT CODE	: 1=(CONTINUOUS)				
	OITA	J					PHASE		:		3PH, 4W	/			2=(NON-CONTINUOUS)				
PAN	IEL:		,	(E)CS			COPPE	R BUS:			100A				3=(RECEPTACLES)				
AIC	RATIN	IG:		10,000			MAINS	CB:			MLO				4=(KITCHEN)	NO.	OF EQ	UIP=	
	KT	С	В	LOAD DESIGNA	TION	T	LOAD		PHASES	•	LOAD			LOAD	DESIGNATION	C	В	CK	Ţ
NO.	CODE	TRIP	POLE	DESCRIPTION	MISC REC	LITE	VA	Α	В	С	VA	LITE	REC	міѕс	DESCRIPTION	POLE	TRIP	CODE	NO.
1	2	20	1	EXISTING LOAD			1200	2400			1200				EXISTING LOAD	1	20	2	2
3	2	20	1	EXISTING LOAD			1200		2400		1200				EXISTING LOAD	1	20	2	4
5	2	20	1	EXISTING LOAD			1200			2400	1200				EXISTING LOAD	1	20	2	6
7	2	20	1	EXISTING LOAD			1200	2400			1200				EXISTING LOAD	1	20	2	8
9	2	20	1	EXISTING LOAD			1200		2400		1200				EXISTING LOAD	1	20	2	10
11	3	20	1	CLASSROOM 2 RECEPT	5		900			900					SPARE	1	20		12
13	2	20	1	(E)FAN COIL			550	550							SPARE	1	20		14
15	2	20	-	-			550		550						SPARE	1	20		16
17	2	40	3	(E)CONDENSING UNIT			1600			1600					SPARE	1	20		18
19	2	40	-	-			1600	2860			1260		7		CLASSROOM 2 RECEPT	1	20	3	20
21	2	40	-	-			1600		2320		720		4		CLASSROOM 2 RECEPT	1	20	3	22
23	3	20	1	3D SHOP RECEPT	5		900			1440	540		3		STORAGE RECEPT	1	20	3	24
25	3	20	1	3D SHOP RECEPT	6		1080	1080							SPACE				26
27				SPACE					0						SPACE				28
29				SPACE						0					SPACE				30
							TOTAL	9290	7670	6340	CONNE	CTED I	KVA		23.3	·			
											CONN.	(VA (C	ODE 1	i	0.0				
											CONN.	(VA (C	ODE 2	i	17.9				
											CONN.	(VA (C	ODE 3	ı	5.4				
											CONN.	(VA (C	ODE 4	1	0.0				
											TENAN	T ALLC	OWANG	E KVA	0.0				
											SPARE	(DECII	MAL)			SPARE	KVA	0.0	
											FEEDER	R DEM	AND K	/A	23.3				
											FEEDER	R DEMA	AND AI	MPS	64.7				
											X'FMR.	KVA			23.3				

DAT	E:			22-Mar-23				PANEL	VOLTAG	 €E:		480/277\	/	CIRCL	IIT CODE:	1=(CONTINUOUS)				
LO	OITA	J		ELECT RM				PHASE	& WIRE:	:		3PH, 4W	r			2=(NON-CONTINUOUS)				
PAN	IEL:			CDH				COPPE	R BUS:			100A				3=(RECEPTACLES)				
AIC	RATIN	IG:		10,000				MAINS	CB:			MLO				4=(KITCHEN)	NO.	OF EG	UIP=	
	KT	C	В	LOAD DESIGNA	NOITA			LOAD		PHASES	}	LOAD			LOAD [DESIGNATION		СВ	СК	.T
NO.	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	Α	В	С	VA	LITE	REC	міѕс	DESCRIPTION	POLE	TRIP	CODE	NO.
1	2	15	3	RTU-2 (PWR EX)				2327	4653.6			2327				RTU-5(PWR EX)	3	15	2	2
3	2		-	-				2327		4653.6		2327				-	_		2	4
5	2		-	-				2327			4653.6	2327				-	_	_	2	6
7	2	20	1	SPARE					2326.8			2327				RTU-6(PWR EX)	3		2	8
9	2	20	1	SPARE						2326.8		2327				-	_	_	2	10
11	2	20	1	SPARE							2326.8	2327				-	_		2	12
13	2	15	3	RTU-3 (PWR EX)				2327	4653.6			2327				RTU-8(PWR EX)	3		2	14
15	2		-					2327		4653.6		2327				-	_		2	16
17	2		-					2327			4653.6	2327				-	_		2	18
19	2	15	3	RTU-4 (PWR EX)				2327	2326.8							SPACE				20
21	2		-	-				2327		2326.8						SPACE				22
23	2		-	-				2327			2326.8					SPACE				24
								TOTAL	13961	13961	13961	CONNE	CTED H	(VA		41.9				
												CONN.	(VA (C	ODE 1)		0.0				
												CONN.	(VA (C	ODE 2)		41.9				
												CONN.	(VA (C	ODE 3)		0.0				
												CONN.	(VA (C	ODE 4)		0.0				
												TENANT	T ALLC	OWANG	E KVA	0.0				
												SPARE	(DECIN	MAL)			SPARI	EKVA	0.0	
												FEEDEF	R DEMA	AND K	/A	41.9				
												FEEDEF	R DEMA	AND AN	/IPS	50.4				
												I								



SINGLE LINE GENERAL NOTES

- THIS DRAWING INDICATES EXISTING CONDITIONS WHICH WERE TAKEN FROM RECORD DRAWINGS. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND EXERCISE CAUTION IN THE DEMOLITION PROCESS AND PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED.
- 2. ALL NEW CONDUCTORS SHALL BE COPPER.
- 3. CONDUCTORS/LUGS/TERMINATIONS SHALL BE RATED FOR 75° C.

SINGLE LINE KEY NOTES

- 1 PANELS USED UNDER THIS PROJECT.
- 2 EXISTING FEEDERS TO REMAIN.
- 3 NEW PANEL UNDER THIS PROJECT.

PARTIAL SINGLE LINE DIAGRAM

DATE:			22-Mar-23				PANEL	VOLTAG	BE:		480/277V		CIRCL	IIT CODE	: 1=(CONTINUOUS)				
LOCATIO	ON:		ELEC RM				PHASE	& WIRE:	:		3PH. 4W				2=(NON-CONTINUOUS)				
PANEL:			(E) CDP				COPPE	R BUS:			400A				3=(RECEPTACLES)				
AIC RAT	ING:		42,000				MAINS	СВ:			MLO				4=(KITCHEN)	NO.	OF EQ	UIP=	
СКТ	C	В	LOAD DESIGN	ATION			LOAD		PHASES	1	LOAD			LOAD	DESIGNATION	С	В	Cł	K
VO. COD	E TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	Α	В	С	VA	LITE	REC	міѕс	DESCRIPTION	POLE	TRIP	CODE	Ξ
1 2	20	3	RTU-C-1				2770	6925			4155				RTU-C-2	3	20	2	
3 2	20	-	-				2770		6925		4155				-	-	20	2	
5 2	20	-	-				2770			6925	4155				-	-	20	2	
7 2	20	3	RTU-C3				4155	8310			4155				RTU-C-4	3	20	2	
9 2	20	-	-				4155		8310		4155				-	-	20	2	
11 2	20	-	-				4155			8310	4155				-	-	20	2	
13 2	20	3	RTU-C-5				4155	8310			4155				RTU-C-6	3	20	2	
15 2	20	-	-				4155		8310		4155				-	-	20	2	
17 2	20	-	-				4155			8310	4155				-	-	20	2	
19 2	20	3	RTU-C-7				4155	8033			3878				RTU-C-8	3	40	2	
21 2	20	-	-				4155		8033		3878				-	-	40	2	
23 2	20	-	-				4155			8033	3878				-	_	40	2	
25 2	20	3	(E)GYM LIGHTING					0							SPARE	1	20		
27 2	20	-	-						0						SPARE	1	20		
29 2	20	-	-							0					SPARE	1	20		
31 2	20	1	LIGHTING					0							(E)TRANSF. 'CMP'	3	100	1	
33 2	20	1	LIGHTING						0						-	-	100	1	
35 2	20	1	LIGHTING							0					-	-	100	1	
37 2	100	3	PNL CDH					0							SPACE			2	
39 2	100	-	-						0						SPACE			2	
41 2	100	-	-							0					SPACE			2	
							TOTAL	31578	31578	31578	CONNECT	ED KV	4		94.8				
											CONN.KV	A (CODI	E 1)		0.0				
											CONN.KV	4 (CODI	E 2)		94.7				
											CONN.KV	A (CODI	E 3)		0.0				
											CONN KV	۱ (COD)	E 1\)		0.0				

TENANT ALLOWANCE KVA

FEEDER DEMAND KVA

FEEDER DEMAND AMPS

0.0

94.7

113.9

SPAREKVA 0.0

AUTHORITY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-121721 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 05/10/2023

CSDA DESIGN GROUP

889 N. DOUGLAS STREET, SUITE 100 EL SEGUNDO, CA 90245 [T]: 310.821.9200 www.csdadesigngroup.com

ARCHITECT STAMP

CONSULTANT:



2866 BIRCH LN. POMONA, CA 91767 (213) 503-2332



PROJECT OWNER:



2820 Clark Ave, Norco, CA 92860

(951) 736-5000

PROJECT NAM

CORONA FUNDAMENTAL
INTERMEDIATE SCHOOL - MPR
RENOVATION

1230 S Main St, Corona, CA 92882

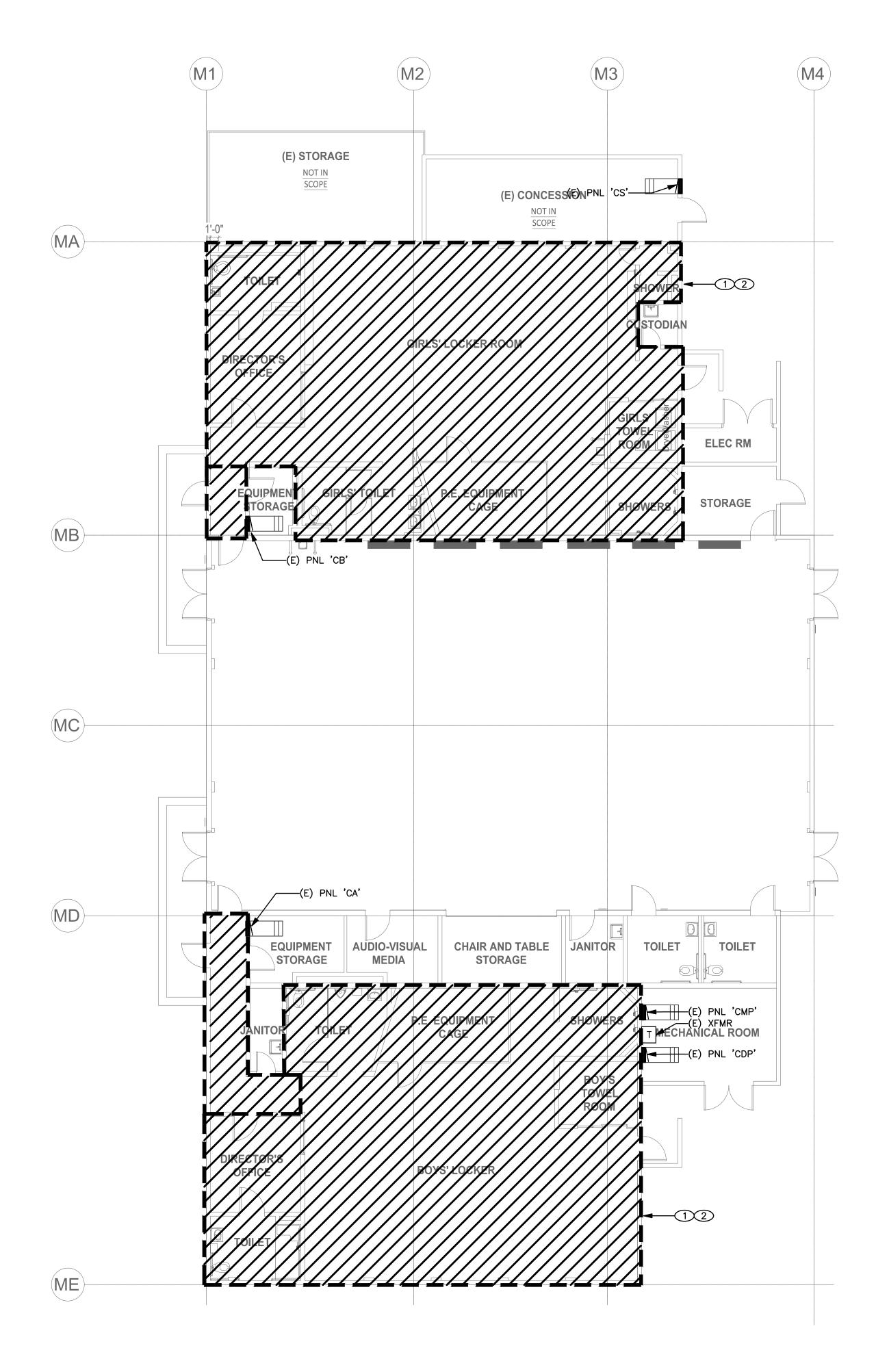
MARK	DATE	DESCRIPTION
	12/19/2022	DSA SUBMITTAL
	03/24/2023	DSA BACK-CHECK
		<u> </u>
		<u> </u>
PRO	JECT NO.:	22063.01

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PARTIAL SINGLE LINE DIAGRAM AND PANEL SCHEDULES

SHEET NO

E-003



- 1. THESE DEMOLITION NOTES REFER TO ALL ELECTRICAL SHEETS WHERE DEMOLITION WORK IS BEING CARRIED OUT.
- 2. CONTRACTOR SHALL VISIT AND MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND VERIFY THE EXISTING SITE CONDITIONS PRIOR TO
- 3. DEMOLITION DEVICES/EQUIPMENT SHOWN ARE OBTAINED FROM VISUAL INSPECTION OF THE PROJECT SITE. CONTRACTOR SHALL FIELD VERIFY EXISTING DEVICES AT WALL/CEILING/ATTIC SPACES/DUCT (SUPPLY/RETURN) AND REMOVE AS PART OF THE DEMOLITION WORK.
- 4. INFORMATION GIVEN ON THE DRAWINGS ABOUT EXISTING INSTALLATIONS HAS BEEN OBTAINED FROM THE AS-BUILT DRAWINGS BUT CANNOT BE GUARANTEED ACCURATE IN ALL RESPECTS. VERIFY ALL SUCH INFORMATION BEFORE PROCEEDING WITH ANY NEW WORK THAT MAY BE AFFECTED. INCLUDE AS PART OF THE CONTRACT ALL WORK REQUIRED TO PRODUCE THE INDICATED RESULT.
- 5. CHECK PANEL SCHEDULE IDENTIFICATION FOR VALIDITY. RE-IDENTIFY ANY OR ALL CHANGES IN PANEL ON PANEL SCHEDULE CARD (INCLUDING EXISTING CIRCUITRY). WHILE PANEL COVER IS REMOVED, TURN OFF ANY SPARE BREAKERS AND VERIFY SPARES AS INDICATED ON PANEL SCHEDULE CARD.
- 6. UNLESS OTHERWISE NOTED ON DRAWINGS ALL EXISTING WIRING, CONDUITS, BOXES, FIXTURES AND OTHER ELECTRICAL SYSTEM IN AREAS WHERE NEW WORK OCCURS SHALL BE REMOVED. EXCEPT WHEN SUCH ITEMS ARE REQUIRED TO MAINTAIN SERVICES TO OTHER AREAS, FIXTURES OR DEVICES. IN SUCH CASES CONTRACTOR SHALL PROVIDE HOMERUN CONDUIT AND WIRING WHERE REQUIRED TO ACCOMMODATE THESE AREAS, FIXTURES OR DEVICES. CONTRACTOR SHALL REMOVE ANY EXISTING ITEMS, WHEN SUCH ITEM IS CONCEALED AND DOES NOT INTERFERE WITH NEW WORK. CONTRACTOR TO VERIFY WITH OWNER AND DISPOSE ALL REMOVED DEVICES AND EQUIPMENT AS DIRECTED. CONTRACTOR TO FIELD VERIFY (E)DEVICES AND REMOVE COMPLETELY.
- 7. PROVIDE CIRCUIT IDENTIFICATION TO EXISTING DEVICES WHICH WILL REMAIN AFTER NEW WORK.
- 8. PROVIDE BLANK COVER PLATES TO REMOVED DEVICES. STAINLESS STEEL OR AS SELECTED BY OWNER. TYPICAL U.O.N.
- 9. ALL WORK REQUIRED TO CHANGE THE EXISTING ELECTRICAL INSTALLATION AS INDICATED SHALL BE PROVIDED.
- 10. REMOVE ALL EXISTING LIGHT FIXTURES, MISCELLANEOUS CONDUIT AND WIRES THAT INTERFERE WITH NEW CONSTRUCTION EXTEND AND RECONNECT ANY INTERRUPTED CIRCUITS TO OTHER EXISTING FIXTURES WHICH REMAIN. THE CONTRACTOR SHALL INCLUDE ALL COST AS PART OF THE CONTRACT FOR ALL NECESSARY WORK REQUIRED.
- 11. WHEN CEILING SUSPENSION SYSTEMS, EQUIPMENT'S SUPPORT SYSTEM, LIGHTING FIXTURES, J-BOXES, OR OTHER ITEMS MUST BE REMOVED TO PERFORM THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAINTING OR REPLACING ANY BROKEN OR DAMAGED ITEMS, INCLUDING PATCHING WALLS AND PAINTING AS REQUIRED, TO BRING THE AREA TO ITS ORIGINAL CONDITION. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY BROKEN/DAMAGED CEILING TILES DURING CONSTRUCTION. CONTRACTOR TO DOCUMENT EXISTING CONDITIONS WITH DIGITAL PICTURES PRIOR TO START WORK, FAILURE TO DOCUMENT EXISTING CONDITIONS CONTRACTOR ASSUMES TOTAL RESPONSIBILITY OF REPLACING DAMAGED CEILING TILES, REPLACED CEILING TILES SHALL MATCH EXISTING BY COLOR/TYPE/STYLE.
- 12. EXISTING CONDUIT MAY BE REUSED FOR NEW WORK WHERE SUITABLE. EXTEND CONDUIT AT NEW DEVICE LOCATIONS AS REQUIRED.
- 13. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL ELECTRICAL MATERIALS AND EQUIPMENT REMOVED FROM THE EXISTING INSTALLATIONS SHALL BE DISPOSED OF OFF SITE.
- 14. ALL ABANDONED WIRING INCLUDING RACEWAYS SHALL BE REMOVED COMPLETELY BACK TO THE SOURCE; CAPPING OFF STUBS THAT MAY REMAIN.
- 15. ASSOCIATED CIRCUITRY IS DEFINED AS ALL WIRES, CONDUIT, JUNCTION BOXES, WIRING DEVICES, DEVICE BOXES, DISCONNECT SWITCH, ETC. ASSOCIATED WITH
- 16. ITEM REQUIRING EXTENSION OF CIRCUITRY, SHALL HAVE THEIR WIRE AND CONDUIT ROUTED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE USE OR AESTHETICS OF ANY AREA IN WHICH IT IS ROUTED.

THE ITEM SCHEDULED FOR REMOVAL.

- 17. UNLESS OTHERWISE NOTED, ALL ITEMS SCHEDULED FOR DEMOLITION SHALL HAVE THEIR ASSOCIATED CIRCUITRY REMOVED BACK TO THE PANELBOARD. THE PROTECTIVE DEVICE SHALL REMAIN IN PLACE AND BE RECONNECTED FOR NEW CIRCUITRY OR BECOME SPARES.
- 18. ANY EXISTING DEVICES, LIGHTING, OR EQUIPMENT THAT IS NOT DOCUMENTED OR IS NOT SHOWN AS BEING DEMOLISHED SHALL BE EXISTING TO REMAIN AND RECONNECTED AFTER WORK IS DONE TO MAINTAIN CONTINUITY IN THE CIRCUIT

KEYNOTES

- 1 CONTRACTOR IS TO DEMO WALL RECEPTACLES WITHIN THIS HATCHED AREA. CONTRACTOR IS TO PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX FOR USE AT NEW LOCATION. REFER TO REMODEL PLAN FOR NEW RECEPTACLE LAYOUT. ALL POWER DEVICES OUTSIDE OF THIS HATCHED AREA IS TO REMAIN OPERATIONAL.
- 2 CONTRACTOR IS TO DEMO LIGHT FIXTURES AND LIGHT SWITCH WITHIN THIS HATCH AREA. CONTRACTOR IS TO PULL CONDUCTORS BACK TO NEAREST JUNCTION BOX FOR USE AT NEW LOCATION. REFER TO REMODEL PLAN FOR NEW LIGHTING LAYOUT AND SWITCH LOCATIONS. ALL LIGHTING FIXTURES ASSOCIATED LIGHT SWITCHES OUTSIDE OF THIS HATCHED AREA IS TO REMAIN OPERATIONAL.

IDENTIFICATION STAMP AUTHORITY APPROVAL DIV. OF THE STATE ARCHITECT APP: 04-121721 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DATE: 05/10/2023

LISTEN COLLABORATE CREATE

889 N. DOUGLAS STREET, SUITE 100 EL SEGUNDO, CA 90245 [T]: 310.821.9200 www.csdadesigngroup.com

ARCHITECT STAMP

CONSULTANT:

2866 BIRCH LN. POMONA, CA 91767 (213) 503-2332

CONSULTANT STAMP

PROJECT OWNER: CORONA NORCO UNIFIED SCHOOL DISTRICT



2820 Clark Ave, Norco, CA 92860 (951) 736-5000

PROJECT NAME:

CORONA FUNDAMENTAL INTERMEDIATE SCHOOL - MPR RENOVATION

1230 S Main St, Corona, CA 92882

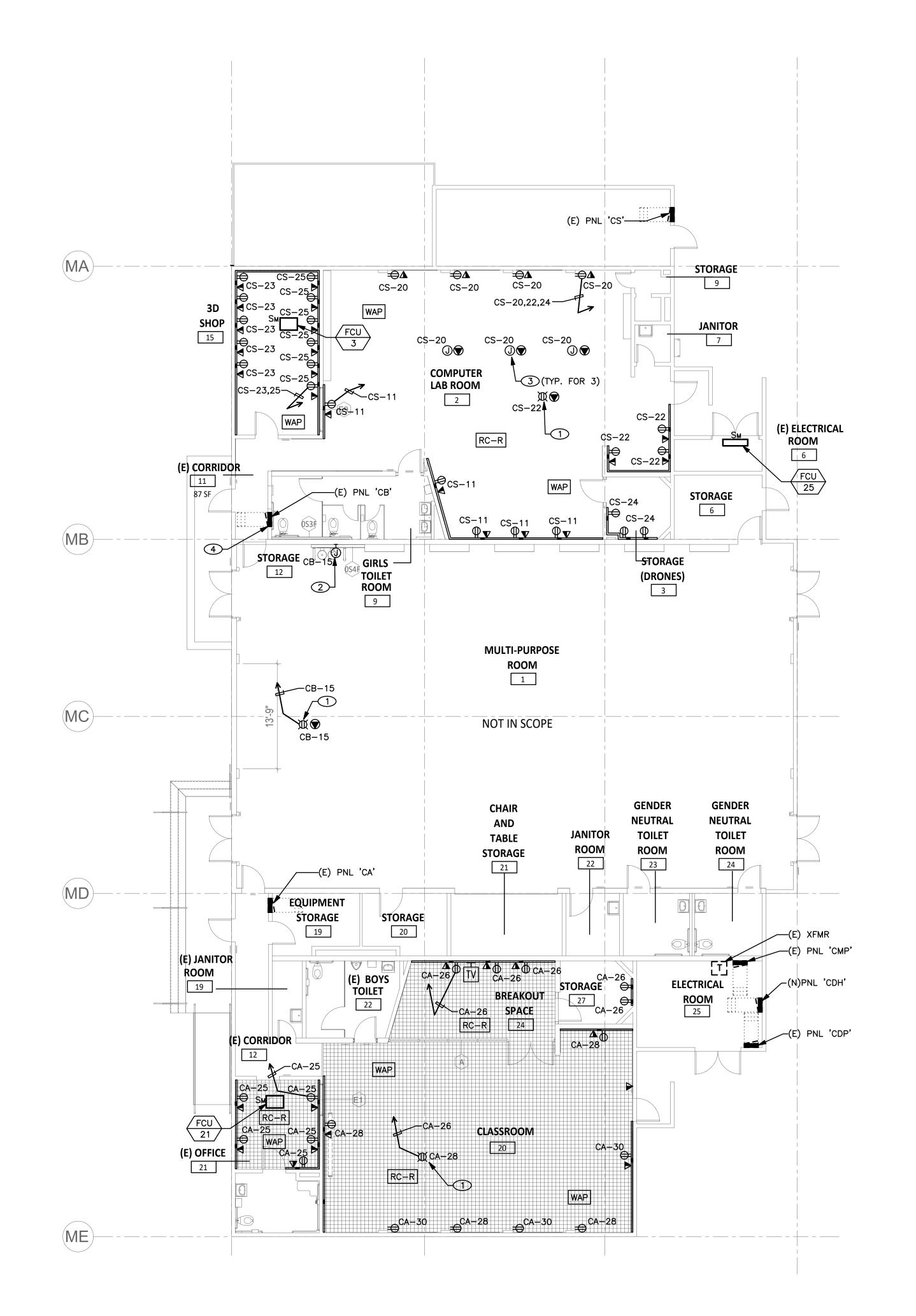
		<u>.</u>
MARK		DESCRIPTION
	12/19/2022	DSA SUBMITTAL
	03/24/2023	DSA BACK-CHECK
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	-	+
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		+
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	-	+
		I
PRO	JECT NO.:	22063.01

ELECTRICAL **DEMOLITION PLAN**

E-101D

ELECTRICAL DEMOLITION PLAN

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



- EXISTING INFORMATION SHOWN IS BASED ON CURSORY FIELD SURVEY AND IS PROVIDED FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- 2. COORDINATE WITH OWNER'S REPRESENTATIVE FOR SCHEDULING CUTOVERS, ENERGIZING EQUIPMENT AND TEMPORARY POWER INTERRUPTIONS THAT ARE REQUIRED FOR THESE TASKS. SUBMIT METHOD OF PROCEDURES (MOP) FOR OWNER AND ENGINEERS' REVIEW AND APPROVAL (30) WORKING DAYS PRIOR TO TASK SCHEDULES.
- 3. CONTRACTOR SHALL MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING DEVICES AND EQUIPMENT TO REMAIN.
- 4. REFER TO SINGLE LINE DIAGRAM ON SHEET E-002 FOR ADDITIONAL INFORMATION.
- 5. ALL EXISTING SWITCHGEAR, ATS, GENERATOR, CIRCUIT BREAKERS, OTHER ELECTRICAL EQUIPMENT, CONDUITS AND WIRING TO REMAIN ARE INDICATED WITH LIGHT LINES. ALL EQUIPMENT TO BE DEMOLISHED ARE INDICATED WITH HATCH MARKS. ALL NEW EQUIPMENT IS SHOWN WITH HEAVY LINES.

AUTHORITY APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 04-121721 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 05/10/2023

SDA DESIGN GROUP

LISTEN COLLABORATE CREATE

889 N. DOUGLAS STREET, SUITE 100 EL SEGUNDO, CA 90245 [T]: 310.821.9200 www.csdadesigngroup.com

ARCHITECT STAMP

NSULTANT:

ENGINEERING

2866 BIRCH LN. POMONA, CA 91767 (213) 503-2332

CONSULTANT STAMP

PROFESSION

No. E-21695

Exp. 12-31-24

PROFCALIFORNIA

PROJECT OWNER:

CORONA NORCO UNIFIED SCHOOL DISTRICT



2820 Clark Ave, Norco, CA 92860

(951) 736-5000

PROJECT NAME:

CORONA FUNDAMENTAL
INTERMEDIATE SCHOOL - MPR
RENOVATION

1230 S Main St, Corona, CA 92882

POWER PLAN

SHEET NO

E-101

KEYNOTES

- 1 PROVIDE AND INSTALL CEILING MOUNTED RECEPTACLE FOR CONNECTION TO PROJECTOR. COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- 2 PROVIDE AND INSTALL JUNCTION BOX FOR CONNECTION TO DRINKING FOUNTAIN. VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER.
- 3 PROVIDE AND INSTALL CEILING MOUNTED JUNCTION BOX FOR RETRACTABLE CORDS.
 VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER. COORDINATE FINAL
 LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- RELOCATE EXISTING ELECTRICAL PANEL IN STORAGE ROOM TO THE OPPOSITE SIDE OF THE WALL. RECONNECT ALL EXISTING CIRCUITS AND FEEDERS.



- 1. EXISTING INFORMATION SHOWN IS BASED ON CURSORY FIELD SURVEY AND IS PROVIDED FOR REFERENCE ONLY. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK
- 2. COORDINATE WITH OWNER'S REPRESENTATIVE FOR SCHEDULING CUTOVERS, ENERGIZING EQUIPMENT AND TEMPORARY POWER INTERRUPTIONS THAT ARE REQUIRED FOR THESE TASKS. SUBMIT METHOD OF PROCEDURES (MOP) FOR OWNER AND ENGINEERS' REVIEW AND APPROVAL (30) WORKING DAYS PRIOR TO TASK SCHEDULES.
- 3. CONTRACTOR SHALL MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING DEVICES AND EQUIPMENT TO REMAIN.
- 4. REFER TO SINGLE LINE DIAGRAM ON SHEET E-002 FOR ADDITIONAL INFORMATION.
- 5. ALL EXISTING SWITCHGEAR, ATS, GENERATOR, CIRCUIT BREAKERS, OTHER ELECTRICAL EQUIPMENT, CONDUITS AND WIRING TO REMAIN ARE INDICATED WITH LIGHT LINES. ALL EQUIPMENT TO BE DEMOLISHED ARE INDICATED WITH HATCH MARKS. ALL NEW EQUIPMENT IS SHOWN WITH HEAVY LINES.

AUTHORITY APPROVA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 04-121721 INC:

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SS FLS ACS D

DATE: 05/10/2023

SDA DESIGN GROUP

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CONSULTANT STAMP

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No. E-21695

Exp. 12-31-24

PROFICALIFORMA

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PROJECT OWNER:

CORONA NORCO UNIFIED SCHOOL DISTRICT



2820 Clark Ave, Norco, CA 92860

(951) 736-5000

PROJECT NAME:

CORONA FUNDAMENTAL
INTERMEDIATE SCHOOL - MPR
RENOVATION

1230 S Main St, Corona, CA 92882

MARK DATE

12/19/2022

DSA SUBMITTAL

03/24/2023

DSA BACK-CHECK

DSA BACK-CHE

SHEET TITLE:

ROOF PLAN

SHEET NO.:

E-102

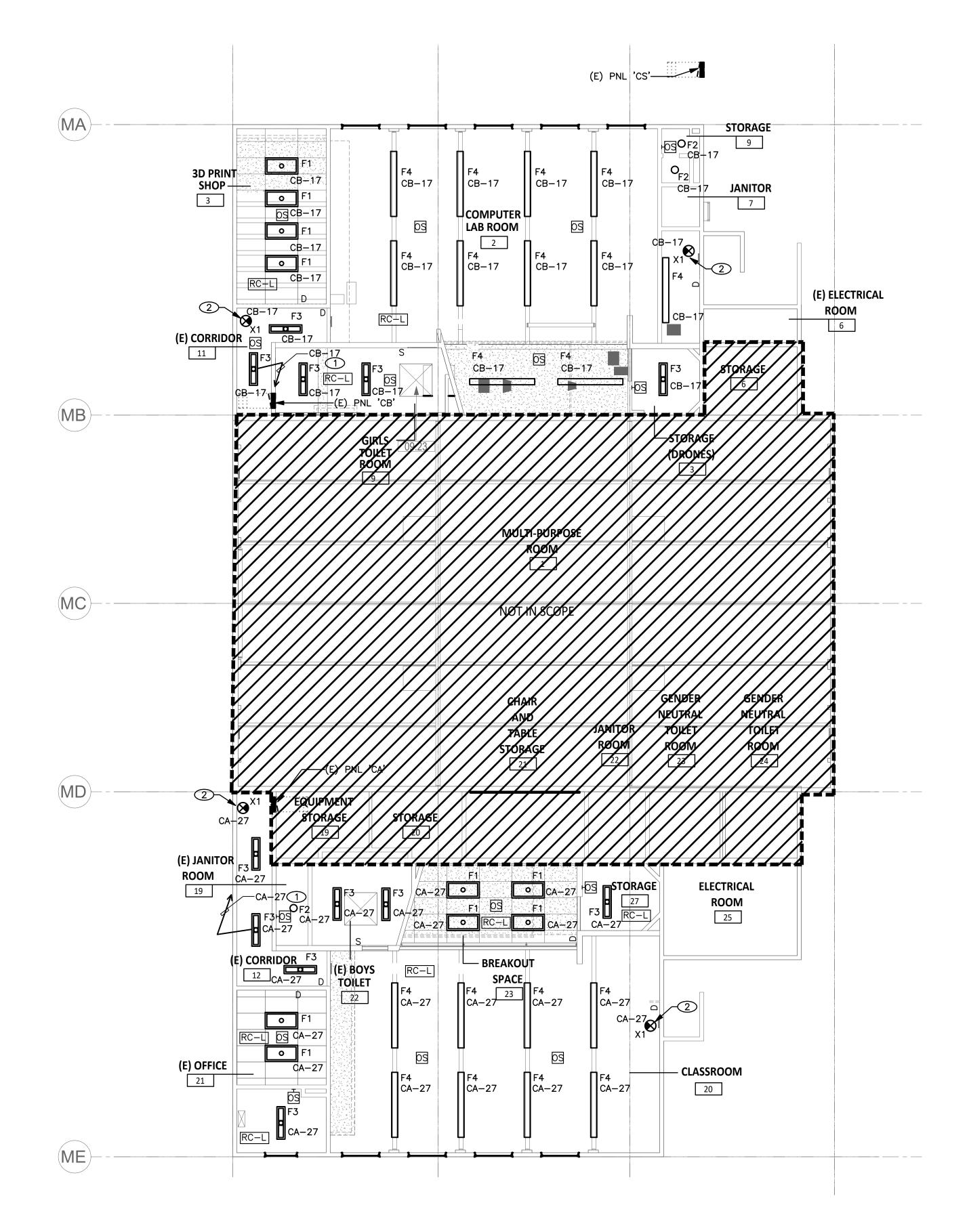
KEYNOTES

ELECTRICAL ROOF PLAN

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

- 1 PROVIDE AND INSTALL 30A 3P WEATHERPROOF NEMA 3R RATED FUSED DISCONNECT. FUSING PER MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- 2 PROVIDE AND INSTALL WEATHERPROOF NEMA 3R RATED SNAP SWITCH.
 VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- INTERCEPT EXISTING HVAC CONDUIT/CONDUCTORS AND EXTEND TO NEW MECHANICAL UNIT LOCATION. PROVIDE ALL NECESSARY SPLICE BOXES, MOUNTING HARDWARE, ETC. FOR COMPLETE CONNECTION.
- PROVIDE WEATHERPROOF GFCI SERVICE RECEPTACLE AS REQUIRED WITHIN 25'-0" OF MECHANICAL EQUIPMENT, IF ONE IS NOT ALREADY INSTALLED. INTERCEPT EXISTING ROOF RECEPTACLE CONDUIT/CONDUCTORS AND EXTEND TO NEW ROOF RECEPTACLE. PROVIDE ALL NECESSARY SPLICE BOXES.

		LIGHTING	FIXT	URE	SCH	EDUL	_E		
TYPE	SYMBOL	DESCRIPTION	INPUT		LAMPS	5	APPROX WEIGHT	MANUFACTURER	NOTES
		J 2001 1101.V	(VA)	NO.	WATTS	TYPE		& CATALOG NO.	
(F1)	0	2' X 4' RECESSED LED LIGHT FIXTURE WITH 0-10V DIMMING DRIVER	23			LED	22	LITHONIA #2BLT4-30L-ADP-GZ10-LP835	SEE DETAIL 1/E-201 AND 15/A-561
F2	0	6" SURFACE MOUNT LED DOWNLIGHT WITH 0-10V DIMMING DRIVER	17			LED	2	JUNO LIGHTING #JSF 7IN 10LM 35K 90CRI MVOLT ZT WH	
F3		4' LONG SURFACE MOUNTED LED FIXTURE WITH 0-10V DIMMING DRIVER	35			LED	5	LITHONIA #CSS-L48-4000LM-MVOLT-40K-80CRI	
F4		8' LONG SURFACE MOUNTED LED FIXTURE WITH 0-10V DIMMING DRIVER	58			LED	13	MARK ARCHITECTURAL LIGHTING #S1LS-LCB-MSL8-90CRI-35K-800LMF- MVOLT-ZT	SEE DETAIL 2/E-201
(X1)	\$	SINGLE FACE ILLUMINATED EXIT SIGN, WITH WHITE HOUSING AND RED LETTERS, WALL OR CEILING MOUNTED	3	_			2	LITHONIA #LQM	



KEYNOTES

1) ROUTE CIRCUIT THROUGH EXISTING LIGHTING CONTROL PANEL.

2 PROVIDE NON-SWITCHED 'HOT' POWER WIRE TO BATTERY PACK CHARGING/SENSOR IN FIXTURE.

- 1. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENT FOR THE LIGHTING FIXTURES AND DEVICES, DUE TO THE STRUCTURAL CONDITION, MECHANICAL DUCT OR PIPING INTERFERENCE, RETAINED EXISTING FACILITY, OR FOR OTHER REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FROM THAT SHOWN, SUCH CHANGES SHALL BE PRESENTED TO THE OWNERS REPRESENTATIVES FOR APPROVAL BEFORE PROCEEDING, AND THE RECORD DRAWINGS SHALL BE ACCURATELY REVISED TO SHOW THE CHANGES AS COMPLETED.
- 2. PROVIDE SEISMIC SUPPORT FOR ALL FIXTURES AND EQUIPMENT IN COMPLIANCE WITH CALIFORNIA BUILDING CODE AND LOCAL ORDINANCES.
- 3. UPON COMPLETION OF INSTALLATION, ALL FIXTURES, LENSES, DIFFUSERS AND REFLECTORS SHALL BE CLEANED TO REMOVE DIRT, DUST AND HANDLING MARKS.
- 4. ALL LIGHTING CONTROL DEVICES AND EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.
- 5. EXISTING CIRCUITS NOT AFFECTED BY THIS PROJECT ARE TO REMAIN.
- 6. IN REWIRING EXISTING CONDUITS ALL CONDUCTORS MUST BE RECONNECTED TO PROVIDE SERVICE TO EXISTING FIXTURES AND OUTLETS.

AUTHORITY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 04-121721 INC:

REVIEWED FOR

SS FLS ACS

SDA DESIGN GROUP

DATE: <u>05/10/2023</u>

LISTEN COLLABORATE CREATE

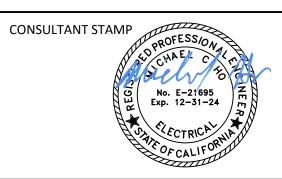
889 N. DOUGLAS STREET, SUITE 100 EL SEGUNDO, CA 90245 [T]: 310.821.9200 www.csdadesigngroup.com

ARCHITECT STAMP

CONSULTANT:



2866 BIRCH LN. POMONA, CA 91767 (213) 503-2332



CORONA NORCO UNIFIED SCHOOL DISTRICT



2820 Clark Ave, Norco, CA 92860 (951) 736-5000

PROJECT NAME:

CORONA FUNDAMENTAL
INTERMEDIATE SCHOOL - MPR
RENOVATION

1230 S Main St, Corona, CA 92882

MARK	DATE	DESCRIPTION
	12/19/2022	DSA SUBMITTAL
	03/24/2023	DSA BACK-CHECK
		1
PRO	JECT NO.:	22063.01

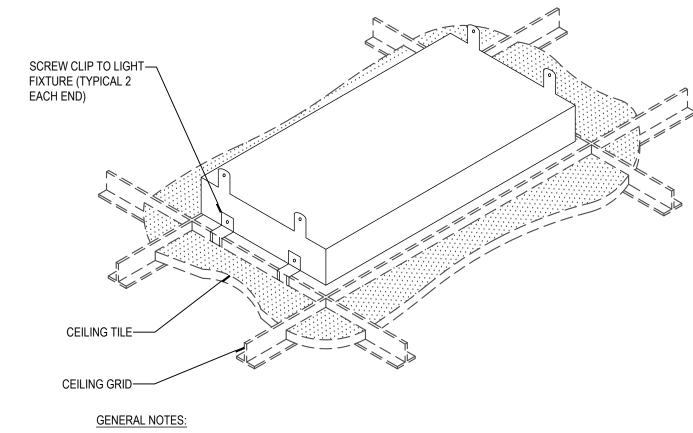
SHEET TITLE:

LIGHTING PI AN

SHEET NO :

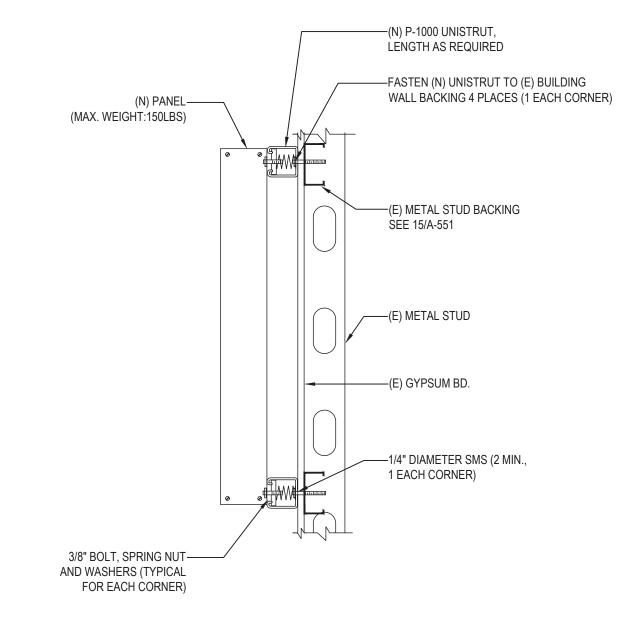
E-111

LIGHTING PLAN (1)

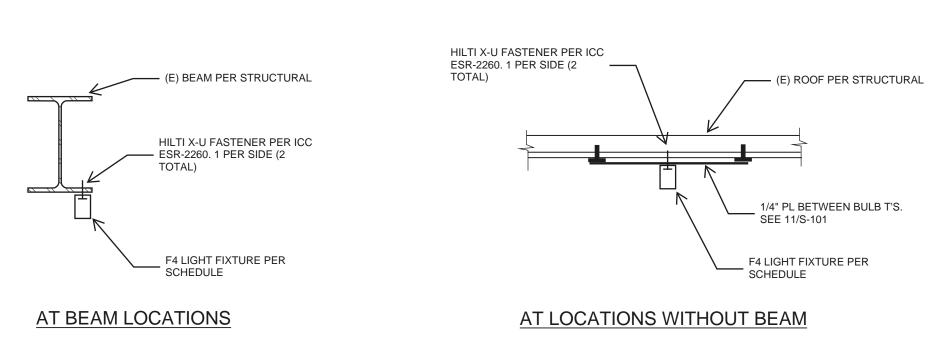


1. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING GRID AND TILE

LIGHTING FIXTURE SUSPENSION



PANEL MOUNTING DETAIL SCALE: NONE



SCALE: NONE

SURFACE MOUNTED LIGHT FIXTURE

- 1. WALL ASSEMBLY THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. B. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 10-5/8 IN. (270 MM).
- THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. 2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBE TO BE INSTALLED ECCENTRICALLY OR CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. THE ANNULAR SPACE BETWEEN THE PIPE, CONDUIT OR TUBE AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS AND TUBES MAY BE USED:

C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) RIGID STEEL CONDUIT, NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR

NOM 4 IN. (102 MM) DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. D. COPPER PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

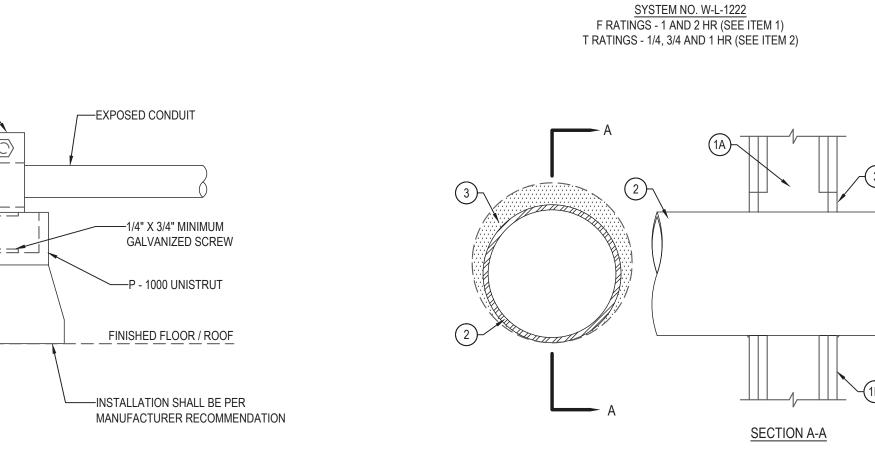
A. STEEL PIPE - NOM 8 IN. (203 MM) DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

OPPER TUBE - NOM 4 IN. (102 MM) D	IAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TO	JBE.	
	TYPE OF PENETRANT	MAX DIAM	T RATING
	STEEL OR IRON PIPE, STEEL CONDUIT OR EMT	2 in. (51 mm)	1 HR
	STEEL OR IRON PIPE, STEEL CONDUIT OR EMT	8 in. (203 mm)	3/4 HR

COPPER PIPE OR TUBE

- 2A. THROUGH PENETRATING PRODUCT* FLEXIBLE METAL PIPING AS AN ALTERNATE TO ITEM 2, ONE NOM 1-1/4 IN. (32 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL PIPE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. (OMEGA FLEX INC & GASTITE, DIV OF TITEFLEX & WARD MFG L.L.C.)
- 3. FILL, VOID OR CAVITY MATERIAL* SEALANT MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY. AT POINT CONTACT LOCATION, MIN 1/4 IN. (6 MM) DIAM BEAD OF FILL MATERIAL APPLIED AT METALLIC PIPE/GYPSUM BOARD INTERFACE ON BOTH SURFACES OF WALL. (SPECIFIED TECHNOLOGIES INC - SPECSEAL LCI SEALANT) * INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS

CANADA), RESPECTIVELY.





ONE - HOLE UNISTRUT PIPE STRAP-

H = 1'-0" MAX

SUPPORTS BY COOPER B - LINE

DURA - BLOK ROOF TOP-

SIZED AS REQUIRED

- GENERAL NOTE: COORDINATE THE INSTALLATION OF EXPOSED CONDUITS WITH GENERAL CONTRACTOR TO ENSURE DAMAGE TO
- ROOF SYSTEM IS PREVENTED. MINIMUM LENGTH OF EACH DURA-BLOK SHALL BE 2 X "H". MAXIMUM SPACING SHALL BE 10'-0" ON CENTER BETWEEN

ROOF CONDUIT SUPPORT



CONDUIT SLEEVE THROUGH FIRE RATED WALL

4 in. (102 mm) 1/4 HR

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC **AUTHORITY APPROVAL** APP: 04-121721 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗸

LISTEN COLLABORATE CREATE

889 N. DOUGLAS STREET, SUITE 100 EL SEGUNDO, CA 90245 [T]: 310.821.9200 www.csdadesigngroup.com

ARCHITECT STAMP

2866 BIRCH LN. POMONA, CA 91767 (213) 503-2332

CORONA NORCO UNIFIED SCHOOL DISTRICT



2820 Clark Ave, Norco, CA 92860 (951) 736-5000

CORONA FUNDAMENTAL INTERMEDIATE SCHOOL - MPR **RENOVATION**

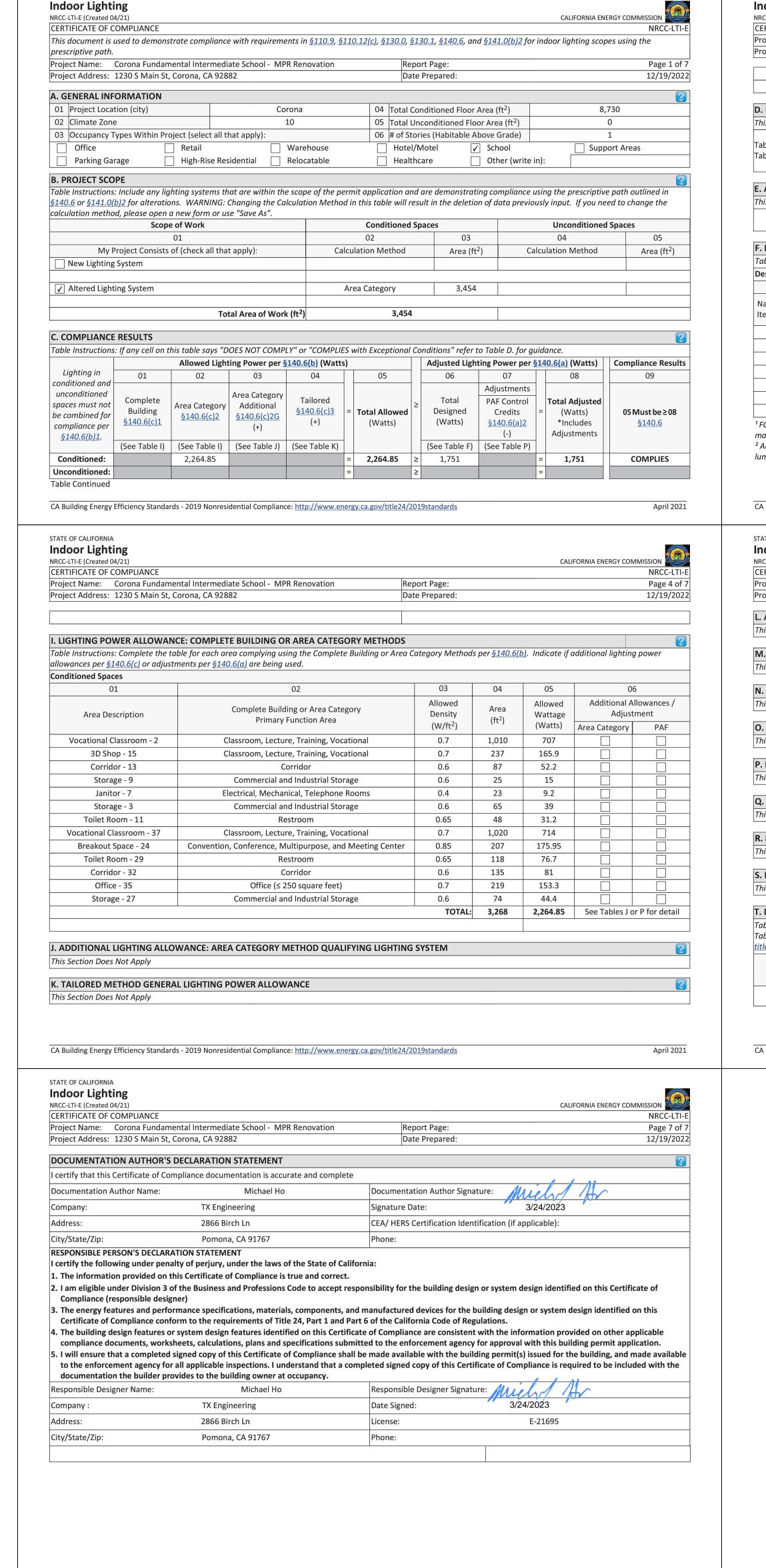
1230 S Main St, Corona, CA 92882

MARK	DATE	DESCRIPTION
	12/19/2022	DSA SUBMITTAL
	03/24/2023	DSA BACK-CHECK
PRO.	JECT NO.:	22063.01

SHEET TITLE:

ELECTRICAL **DETAILS**

E-201



CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA

CC-LTI-E (Created 04/21)			STATE OF CALIFORNIA Indoor Lighting								
RTIFICATE OF COMPLIANCE oject Name: Corona Fundamental Intermediate School - MPR Renovation	Report Page:	CALIFORNIA ENERGY COMMISSION NRCC-LTI-E Page 2 of 7	NRCC-LTI-E (Created 04/21) CERTIFICATE OF COM		- MDP Panovation		Report Page:		CALII	FORNIA ENERGY	NRCC-L Page 3
pject Address: 1230 S Main St, Corona, CA 92882	Date Prepared:	12/19/2022		0 S Main St, Corona, CA 92882	- WIFK REHOVACION		Date Prepared:				12/19/2
Rated Pov	Controls Compliance (See Table H for Deta wer Reduction Compliance (See Table Q for Deta		G. MODULAR LIGHT								
EXCEPTIONAL CONDITIONS		?		NG CONTROLS (Not Including PAFs)							
s table is auto-filled with uneditable comments because of selections made or do	ata entered in tables throughout the form.			ease include lighting controls for condit the lighting controls section of the Com							ion of this table
ble H. indicates a control requiring a note describing the compliance approach, bele H Indoor Lighting Controls Permit Applicant Notes:	out no notes have been entered.		Building Level Contro	01			. -	02	-	-	03
ADDITIONAL REMARKS				Mandatory Demand Response §110.12(c)				Off Controls			Field Inspecto
is table includes remarks made by the permit applicant to the Authority Having J	urisdiction.		Area Lavel Controls	Jaconae (v)			2				
			Area Level Controls 04	05	06	07	08	09	10	11	12
INDOOR LIGHTING FIXTURE SCHEDULE	n in affice	?	Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls	Shut-Off Controls	Primary/Skylit Daylighting	Secondary Daylighting	Systems	Field Illspec
ble Instructions: Include all permanent designed lighting and all portable lighting signed Wattage: Conditioned Spaces				Classroom, Lecture, Training, Classroom, Lecture, Iraining, Vocation	Manual ON/	§130.1(b) Dimmer:	§130.1(c) Occ.:Sensor	§130.1(d)	§140.6(d)	§140.6(a)1	Pass Fa
01 02 03 04 Ime or Good And Company C	05 06 07 Watts per How Wattage is Total number E.	08 09 10 xempt per Field Inspector		Vocational Commercial and Industrial Storage	Manual ON/	Exempt**	OccSenson	NA	N/A/A		
Complete Luminaire Description (Track) Fixture & Color Change ¹ II	uminaire ² determined luminaires § 23 Mfr. Spec ² 10	140.6(a)3 Design Watts Pass Fail 230		Corridon	OFF Manual ON/	Dimmer	OccaSensor	NA	NA.		
F2 6" RECESSED LED DOWNLIGHT WITH	17 Mfr. Spec ² 2	34		Convention, Conference,	OFF Manual ON/	Dimmer	Occasensor	NAA	NAA		
F3 4' LONG SURFACE MOUNTED LED F#	35 Mfr. Spec ² 11 58 Mfr. Spec ² 19			Multipurpose, and Meeting Center	OFF Manual ON/						
X1 SINGLE FACE ILLUMINATED EXIT SIGN	3 Mfr. Spec ² 4 Total Designed Watts CONDITION			Office (≤ 250 square feet)	Manual ON/OFF	Dimmer	Occ.:Sensor	NA.	N/A/A		
DOTNOTE: Design Watts for small aperture and color changing luminaires which	a qualify per §140.6(a)4B is adjusted to be 75% of	their rated wattage. Table F automatically	****	Restroom	OFF OFF	Exempt*	OccaSensorr	NAA	N/A/A	13	
kes this adjustment, the permit applicant should enter full rated wattage in colu uthority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattago	umn 05.			h a * require a note in the space below nary/Skylight Daylighting: Exempt beco				Р	Plan Sheet Show		ones:
ninaire, not the lamp.			EXCEPTION 1 to \$150.	Explain here why item with asterisk c							
				Explain here why item with asterisk c	omplies						
Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.ene	ergy.ca.gov/title24/2019standards	April 2021	CA Building Energy Effici	iency Standards - 2019 Nonresidential Com	pliance: http://www	energy.ca.gov/titl	le24/2019standards				April 2
TE OF CALIFORNIA			STATE OF CALIFORNIA								
1 11 1 1									CALII	FORNIA ENERGY	COMMISSION
door Lighting CC-LTI-E (Created 04/21)		CALIFORNIA ENERGY COMMISSION	Indoor Lighting NRCC-LTI-E (Created 04/21))					CALII		
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IDENTIFICATION STAMP **AUTHORITY APPROVA** DIV. OF THE STATE ARCHITEC APP: 04-121721 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/10/2023

LISTEN COLLABORATE CREATE

889 N. DOUGLAS STREET, SUITE 100 EL SEGUNDO, CA 90245 [T]: 310.821.9200 www.csdadesigngroup.com

ARCHITECT STAMP

CONSULTANT:

2866 BIRCH LN. POMONA, CA 91767 (213) 503-2332

CONSULTANT STAMP

CORONA NORCO UNIFIED SCHOOL DISTRICT



2820 Clark Ave, Norco, CA 92860 (951) 736-5000

PROJECT NAME:

CORONA FUNDAMENTAL INTERMEDIATE SCHOOL - MPR RENOVATION

1230 S Main St, Corona, CA 92882

RK	DATE	DESCRIPTION
	12/19/2022 03/24/2023	DSA SUBMITTAL
	03/24/2023	DSA BACK-CHECK

22063.01

SHEET TITLE:

PROJECT NO.:

ELECTRICAL TITLE 24

SYMBOLS	ABBR.	DESCRIPTION
W== ==SS= ===SAN===	W. OR SS OR SAN	WASTE OR SEWER BELOW SLAB
SAN SAN	SAN	SANITARY WASTE PIPE ABOVE SLAB
—— CD ——	CD	CONDENSATE DRAIN
	V.	SANITARY VENT
	C.W./CW	COLD WATER
	H.W./HW	HOT WATER
— —	FCO	FLOOR CLEAN OUT OR CLEAN OUT THRU GRADE.
		END OF LINE CLEANOUT/CAP
——ICW ——	ICW	INDUSTRIAL COLD WATER
	A.H.J	AUTHORITIES HAVING JURISDICTION
	ABV.	ABOVE
	ADA	AMERICAN DISABILITY ACT
	A.F.F.	ABOVE FINISHED FLOOR
	A.P.	ACCESS PANEL
	BEL.	BELOW
	BV/S.O.V/SOV	BALL VALVE (NO-LEAD) SS BALL & STEM
→ ◆ N	BAV 🔷	BALLANCING VALVE (NO-LEAD) CIRCUIT SOLVER; OR A APPLICABLE REDWHITE O-4GPM
	CLG.	CEILING
	CONT.	CONTINUATION
	CONN.	CONNECTION
	C.V.	CHECK VALVE
	DN.	DOWN
	D.S.	DOWN SPOUT
	(E)/EXIST.	EXISTING
	F.U.	FIXTURE UNITS
	HDR.	HEADER
	I.E.	INVERT ELEVATION
	(L)/(WC)/(U)	PIPING ABV. CLG. COMING FROM THESE RESPECTIVE FIXTURES LOCATED ON FLOOR ABV.
	(N)	NEW
	NC	NORMALLY CLOSED
<u></u>	PG	0-100 PSI PRESSURE GA
<u> </u>	P.O.C/POC	POINT OF CONNECTION
	SOV/S.O.V	SHUT OFF VALVE
	SS	STAINLESS STEEL
Τ*	R.I.&C.	ROUGH IN AND CONNECT
	- TH	THERMOMETER
	T.P./TP	AUTOMATIC TRAP PRIMER
TW	TW	TEMPERED WATER (104 DEG F)
	V.T.R.	VENT THRU ROOF
	W.C.O.	WALL CLEAN OUT

PIPING MATERIAL

- PIPING MATERIALS SHALL BE:
- 1. DOMESTIC WATER SYSTEM: ABOVE GRADE SHALL BE SEAMLESS DRAWN COPPER TYPE "L", ASTM B88; WROT COPPER SOLDER JOINTS FITTINGS, ANSI/ASME B16.22; 95/5 TIN/ANTIMONY SOLDER AT VALVES AND TRIM; SILVER SOLDER AT JOINTS.
- PRESSS TYPE JOINTS ACCEPTALBLE AS AN EQUAL.

 2. WASTE AND VENT PIPING ABOVE GRADE SHALL BE:
- HUBLESS CAST-IRON PIPE AND FITTINGS: ASTM A 888 OR CISPI 301. COUPLINGS: ASTM C 1277 ASSEMBLY OF METAL HOUSING, CORROSION-RESISTANT FASTENERS, AND ASTM C 564 RUBBER SLEEVE WITH INTEGRAL, CENTER PIPE STOP FOR BELOW GRADE, UNDER SLAB INSTALLATION.
- a. HEAVY—DUTY, TYPE 304, STAINLESS—STEEL COUPLINGS: ASTM A 666, TYPE 304, FOR UNDERGROUND PIPING ONLY.
- b. STAINLESS—STEEL SHIELD; STAINLESS—STEEL BANDS; AND SLEEVE.
- 1) NPS 1-1/2 TO NPS 4: 3-INCH-WIDE SHIELD WITH 4 BANDS.
 2) NPS 5 TO NPS 10: 4-INCH-WIDE SHIELD WITH 6 BANDS.
- b. STANDARD CAST-IRON COUPLINGS: ASTM A 48, 2-PIECE, CAST-IRON HOUSING; STAINLESS-STEEL BOLTS AND NUTS; AND SLEEVE FOR ABOVE GROUND PIPING.
- c. COMPACT, STAINLESS-STEEL COUPLINGS: CISPI 310 WITH ASTM A 167, TYPE 301, OR ASTM A 666, TYPE 301, STAINLESS-STEEL
- d. CORRUGATED SHIELD; STAINLESS—STEEL BANDS; AND SLEEVE FOR ABOVE GRADE.3. CONDENSATE DRAIN PIPING SHALL BE SEAMLESS DRAWN COPPER
- TYPE "M", ASTM B88; WROT COPPER SOLDER JOINTS FITTINGS, ANSI/ASME B16.22; 95/5
 TIN/ANTIMONY SOLDER AT VALVES AND TRIM; SILVER SOLDER AT JOINTS.
 PRESSS TYPE JOINTS ACCEPTALBLE AS AN EQUAL.
- 4. INSULATE ALL HOT WATER PIPING WITH FIBERGLASS INSULATION, 25/50 FLAME SPREAD/ SMOKE RESISTANT. ALL ACCORDING TO TITLE 24 REQUIREMENENTS

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA—APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7—16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PLUMBING GENERAL NOTES

- EXAMINATION OF THE SITE: CONTRACTOR SHALL EXAMINE THE SITE AND BECOME ACQUAINTED WITH THE SITE. CONTRACTOR SHALL BE HELD TO HAVE MADE SUCH EXAMINATION AND NO ALLOWANCE FOR EXTRAS WILL BE ALLOWED FOR ANY ERROR OR OVERSIGHT RESULTING FROM THE CONTRACTOR'S UNFAMILIARITY WITH THE SITE.

 1.1 ALL THE EXISTING PLUMBING INFORMATION AND WATER SIZING TABLE SHOWN ON THIS SET OF DRAWINGS IS BASED ON RECORD DRAWINGS AND SITE VISIT.
- 1.2 CONTRACTOR SHALL FAMILIARIZE WITH THE PROJECT SITE AND ALL EXISTING SYSTEMS, TO FIELD VERIFY THE PROJECT SITE, SCOPE, AND FIELD CONDITION PRIOR TO BIDDING.
- 1.3 CONTRACTOR SHALL NOTIFY PRIOR TO BID, ARCHITECT AND DESIGN TEAM OF ANY DISCREPANCIES THAT THEY MIGHT NOTICE IN THE FIELD VERSUS THE THE DESIGN DOCUMENTS.
- 1.4 CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, CHARGES, INSPECTIONS, OR INCIDENTAL COSTS, NECESSARY FOR COMPLETING THE WORK. INCLUDED ARE ALL CHARGES BY STATE, COUNTY, LOCAL A.H.J, ALL A.H.J.
- 1.5 CONTRACTOR SHALL VERIFY IN THE FIELD THE ELEVATION OF THE NEXT UPSTREAM SEWER MANHOLE LID/COVER, AND SHALL PROVIDE BACKWATER VALVE AS REQUIRED BY A.H.J, AT NO EXTRA COST FROM THE BID.
- 2. PROVIDE AND MAINTAIN ACCESS AND WORKING SPACE NEAR MECHANICAL, ELECTRICAL AND CONTROL EQUIPMENT TO PERMIT READY AND SAFE OPERATION, EXAMINATION AND MAINTENANCE.
- COORDINATE ALL PLUMBING WORK, PIPING AND EQUIPMENT LOCATIONS WITH THE OTHER TRADES AND SITE/JOB CONDITIONS.
 NEW WORK AND INSTALLATION SHALL NOT INTERFERE WITH THE PROPER FUNCTIONING OF EXISTING FACILITY AND COMPLETED PROJECT SHALL PROPERLY FUNCTION ENTIRELY TROUGH OUT. FURNISH ALL LABOR AND MATERIALS REQUIRED TO RELOCATE, REMOVE, REINSTALL, CONNECT, RECONNECT, REPLACE, ETC. ANY EXISTING PLUMBING WORK TO ACCOMMODATE THE NEW
- WEEK AHEAD OF WORK THAT REQUIRES INTERRUPTION OF EXISTING SYSTEMS IN ORDER TO CONNECT THE NEW PLUMBING.

 5. ALL NEW PIPING AND SECTIONS OF PIPING AS REQUIRED BY A.H.J SHALL BE TESTED, DISINFECTED AND CHLORINATED

PLUMBING LAYOUT. OBTAIN WRITTEN APPROVAL FROM ARCHITECT AND SCHOOL P.M/REPRESENTATIVES AS REQUIRED, AT LEAST A

- 5A. ALL NEW HOT WATER AND TEMPERED WATER PIPING SHALL BE INSULATED TO MIN. TITLE 24, CURRENTLY ENFORCED EDITION REQUIREMENTS INCLUDING ALL EXISTING PIPING WHERE INSULATION WAS REMOVED, SHALL BE RESTORED TO ITS
- 6. DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS OR OTHER ELEMENTS WHICH MAY BE REQUIRED. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION.
- 7. VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND ORDERING AND INSTALLING, INCLUDING, EXACT LOCATIONS AND SIZES TO ASSURE FULL RESPONSIBILITY FOR FITTINGS AND ALL EQUIPMENT AND MATERIAL HEREIN REQUIRED.
- 9. FIXTURE: EXACT LOCATION, MOUNTING HEIGHTS, COLORS OF PLUMBING FIXTURES AND ACCESS PANELS SHALL BE OBTAINED
- FROM THE ARCHITECTURAL DRAWINGS. OBTAIN ARCHITECT AND OWNERSIP APPROVAL PRIOR TO ORDERING.

 10. DISABLE ACCESS FIXTURE: SEE ARCHITECTURAL DWGS FOR ADA FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- (INSULATE ALL EXPOSED HOT WATER, TEMPERED WATER AND DRAIN PIPING BELOW ADA LAVATORIES WITH "TRAP CAP" MODEL 102BE, BEIGE OR EQUAL).

 11. NO STRUCTURAL MEMBER SHALL BE MODIFIED IN ANY WAY WITHOUT WRITTEN PERMISSION OF THE S.E.O.R AND ARCHITECT.
- 12. ACCESS PANELS: THE CONTRACTOR SHALL COORDINATE AND INSTALL THE LOCATION OF ALL ACCESS PANELS INCLUDING CEILING ACCESS PANEL WITH ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLAN AND THE ELECTRICAL LIGHTING &
- MECHANICAL LAYOUT.

 13. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS, CONTROLS, OR ANY OTHER ITEMS REQUIRING MAINTENANCE, ADJUSTMENT OR OBSERVATION TO BE INSTALLED IN AN ACCESSIBLE LOCATION. PROVIDE AND INSTALL ACCESS PANELS FOR ALL
- ADJUSTMENT OR OBSERVATION TO BE INSTALLED IN AN ACCESSIBLE LOCATION. PROVIDE AND INSTALL ACCESS PANELS FOR ALL VALVES, WATER HAMMER ARRESTORS, CONTROLS, OR ANY OTHER ITEMS REQUIRING MAINTENANCE, ADJUSTMENT OR OBSERVATION INSTALLED WITHIN OR BEHIND WALLS OR NON—REMOVABLE CEILINGS.
- 14. PROVIDE AND INSTALL A.H.J APPRIVED TYPE WATER HAMMER ARRESTERS WITH ACCESS PANEL, PER PDI WH-210 STANDARD REQUIREMENTS AND IN ALL WATER PIPING SERVING FIXTURES AND EQUIPMENT, EQUIPPED WITH QUICK CLOSING VALVES, SOLENOID VALVES, ELECTRONIC SENSOR FAUCETS, OBTAIN IN WRITING FROM THE MANUFACTURERS CONFIRMATION IF ANY OF THE ABOVE VALVES MIGHT NOT BE CONSIDERED A "QUICK CLOSING VALVE"
- 15. LAVATORIES IN TOILET ROOMS SHALL BE EQUIPPED WITH FAUCETS TO LIMIT THE HOT WATER TEMPERATURE TO A RANGE OF 104°F MINIMUM TO 120°F MAXIMUM AND THE HOT WATER FLOW TO 0.5 GPM.
- 15A. REFER TO FIRE STOPPING DETAILS, ARCHITECTURAL DWGS. FOR ALL PIPING PENETRATING WALLS, CEILINGS, AND FLOORS.

MAKE ALL CONNECTIONS TO ALL SERVICES WITH NEW FITTINGS.

15B. PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES, STRAINERS, TRAP PRIMERS, WHA, ETC.

ZE (INCHES

1-1/4"

1-1/2"

FIXTURE

DRINKING

OUNTAIN.

BUBBLERS.

WALL MOUNTED

IN M.P.ROOM

WASHER BOX

WITH TRAP AND

TRAP PRIMER

FLOOR DRAIN

OPERATED

TRAP PRIMER:

PROVIDE TP

WASHER BOX

P-TRAP & TO

FLOOR DRAIN

WATER HAMMER

HE WATER

SUPPLIES TO

SUPPLIES TO EA

WATER CLOSET

WATER CLOSET

1 NON-ADA

WASHER.

<u>WHA−2</u> WATER HAMMER

SEE NOTE 2 ARRESTOR ON THE WATER

BOTTLE FILLER

<u>DF-1</u>

<u>WB-1</u>

<u>BTP-1</u>

<u>WHA-1</u>

SEE <u>NOTE</u>

<u>WC-2</u>

BELOW

- 15C. ALL PIPING PENETRATING WALL, CEILING, AND FLOOR SHALL BE ISOLATED FROM BUILDING STRUCTURE AS REQUIRED BY A.H.J, WITH RESILIENT SEALS.
- 15D. CONTRACTOR TO INSTALL ALL RATED FIRE ASEMBLIES AS PER APPLICABLE FIRE CODES REQUIREMENTS AND AS PER CITY OF NORCO & A.H.J. REQUIREMENTS.

3/4"

3/4"

1/2"TP

1/2"

3/4"

3/4"

-1/2"

ANOTHER ELONGATED BOWL TOILET (WITH MAX. LENGTH 28 1/4" OR SHORTHER) WHICH WORK IN THE EXISTING CONDITION.

3/4

- 15E. CONTRACTOR TO PROVIDE AND INSTALL AS APPLICABLE, A.H.J APPROVED FLEX IN PIPING CROSSING SEISMIC SEPARATIONS AND BUILDING JOINTS.
- CLEANOUTS: ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., WITH THE ENGINEER PRIOR TO ANY INSTALLATION. ALL CLEANOUTS SHALL BE INSTALLED PER CURRENTLY ENFORCED EDITION OF CPC, SECTION 707 AND 719 OF THE CALIFORNIA PLUMBING

OR W

1-1/2"

1-1/2"

HW

PLUMBING GENERAL NOTES (CONT.)

- 17. GENERAL NOTE: INSTALL WALL CLEAN OUTS AND ACCESS PANEL IN ALL STORM DRAIN LEADERS. ACCESS FROM INSIDE OF BLDG. REQUIRED. COORDINATE LOCATION IN FIELD.
- 18. FIELD VERIFICATION: BEFORE FABRICATION OR INSTALLATION, THIS CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OR SPECIFICATIONS. EXACT ROUGH—IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATE IN FIELD.
- 19. STRUCTURAL PENETRATION: ANY STEEL AND CONCRETE WALL PENETRATION REQUIREMENTS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION. CONTRACTOR SHALL XRAY THE EXISTING FLOOR PRIOR TO CORING AND SHALL RESTORE ANY REBARS TO ORIGINAL CONDITION. COORDINATE WITH ARCHITECT ON CORING.
- 20. COORDINATE LOCATIONS, SIZES, AND ELEVATIONS OF ALL SLEEVES THROUGH STRUCTURE WITH STRUCTURAL AND ARCHITECTURAL
- 21. ALL DOMESTIC WATER, WASTE AND VENT, GRAYWATER WASTE PIPES SHALL HAVE MARKERS WITH DIRECTION OF FLOW ARROWS AND COLOR CODES WITH CLEARLY PRINTED LEGEND IDENTIFYING CONTENTS OF PIPE. ALL VALVES SHALL HAVE BRASS TAG
- IDENTIFYING THE APPROPRIATE SERVICE.

 22. CERTIFIED FIXTURES & EQUIPMENT: ALL PLUMBING FIXTURES, SHOWER HEADS, STORAGE TYPE WATER HEATERS AND FAUCETS
- SHALL BE CERTIFIED & LISTED AS REQUIRED BY A.H.J, BY THE STATE OF CALIFORNIA ENERGY COMMISSION AS REQUIRED BY THE CALIFORNIA ENERGY EFFICIENCY STANDARD.
- 23. PLUMBING FIXTURES AND FITTINGS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE FLOW RATES SPECIFIED IN 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, OR REQUIRED BY A.H.J.
- 24. SPECIFICATION: THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH, AND BE CONSIDERED TO BE A PART OF THE SPECIFICATION IF BOOK SPECIFICATIONS ARE PART OF THIS PROJECT..
- 25. PROVIDE SLEEVES AND FIRESTOPPING ASSEMBLIES AT PIPE PENETRATIONS WITH CONSTRUCTION AND MATERIALS IN CONFORMANCE WITH STATE FIRE MARSHAL AND UL BUILDING MATERIALS/FIRE RESISTIVE DIRECTORY.
 26. PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS. PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR SINKS.
- PROVIDE AND INSTALL TRAP PRIMERS IN ACCESSIBLE LOCATIONS WITH ACCESS PANELS.

 27. ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE APPROVED BY CITY OF NORCO AUTHORITIES HAVING JURISDICTION.
- 28. ALL PLUMBING FIXTURES SHALL MEET THE FLOW REQUIREMENTS SPECIFIED IN TITLE 24 AND CITY OF
- NORCO AND A.H.J REQUIREMENTS.

 29. SLOPE ALL WASTE AND STORM DRAINAGE PIPING MIN 1/4"/FT EXCEPT IF 4" AND LARGER SLOPE
- MIN. 1/8"/FT. OBTAIN INSPECTOR APPROVAL FOR LESS THEN 1/4/FT. SLOPE IS USED.

 30. PROVIDE UL LISTED FIRE ASSEMBLY EQUIPMENT, PARTS AND PENETRATIONS FOR ELEMENTS PENETRATING THRU FIRE RATED WALLS OR BUILDING SEPARATIONS.
- 31. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS, AND FOR THE 3HR FIRE RATED WALLS. PROVIDE UL, FM LISTED APPROVED FIRE PENETRATIONS SYSTEMS ACCORDINGLY AT ALL PIPE PENETRATIONS THRU FIRE RATED WALLS.
- 32. PROVIDE APPROVED SEISMIC JOINTS, FLEX CONNECTORS, IN ALL PIPES CROSSING SEISMIC SEPARATIONS OR BUILDING SEPARATION JOINTS, SEE ARCHITECTURAL FOR LOCATIONS.
- SEPARATIONS OR BUILDING SEPARATION JOINTS, SEE ARCHITECTURAL FOR LOCATIONS.

 33. COORDINATE FAN COIL UNIT CONDENSATE DRAIN REQUIREMENTS AND WHO
 INSTALLS THEM WITH THE OWNER OR RESPONSIBLE REPRESENTATIVE.
- 34. VENTS FROM FIXTURE WITH OVERFLOW RIM MUST RISE MINIMUM 6" ABOVE THE FLOOD RIM LEVEL BEFOR COLECTING TOGETHER WITH OTHER VENTS.
- 35. ALL POTABLE WATER ITEMS TO COMPLY WITH THE LEAD-FREE ORDINANCE OF THE STATE OF CALIFORNIA (SB 1953, NSF 372 NSF61)
- 36. ALL FIXTURES SHALL BE LISTED OR LABELED BY A LISTING AGENCY (CPC 301.1.1

APPROVED BY A.H.J INSTALLED).

PLUMBING FIXTURE SCHEDULE

● 6426 WATER FILTER

PART 82583

●1920 BOTTLE FILLER

● 6475 CUSTOM LOGO PANEL

DISTRIBUTION UNIT DU SERIES.

PER PDI WH-201 STANDARD

. FOR WC-1, WC-2: PER ARCHITECTURAL, THE MAXIMUM TOILET LENGTH FROM FACE OF WALL TO TIP OF SEAT/TOILET CANNOT EXCEED 28 1/4", THEREFORE PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY IN THE

2. ALL ACCESS PANELS (A.P) SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH ARCHITECTURAL REQUIRED FIRE AND SMOKE RATING, WITH STAINLESS STEEL DOOR WITH CYLINDER LOCKS, PER SPECIFICATIONS

FIELD. INCLUDING IN COORDINATION WITH THE EXISTING WALL FOUNDATION. THAT IT WORKS WITH 10" ROUGH IN AND ADVISE THE ARCHITECT TEAM IF IT MIGHT NOT WORK WITH 10" ROUGH IN, AND TO PROPOSE

AND ARCHITECT AND SCHOOL P.M APPROVAL, SIZE 12" X 12" MINIMUM AND AS REQUIRED SIZE-WISE IN ORDER TO ACCESS VALVES SAFELY, EASILY, EFFICIENTLY, EFFECTIVELY.

● 6700.4 HI-LOW IN WALL MOUNTING PLATE,

WATER CONSUMPTION

(GPM-GPF)

BUBBLER__0.

BOTTLE FILLER__

- 37. PROVIDE ANTI-SYPHON DEVICES ON HOSE BIBBS, (NON-REMOVABLE), ETC. (CPC 603.4.7)

 38. ANY PART OF THE SYSTEMS THAT MIGHT BE REQUIRED TO BE REMOVED FROM SITE SHALL BE
- DISPOSED AS DIRECTED BY OWNERSHIP/OWNER REPRESENTATIVES.
- 39. CONTRACTOR SHALL PROVIDE AND INSTALL A S.O.V, AND/OR STOP AT EACH PIECE OF EQUIPMENT FURNISHED BY OTHERS REQUIRING DRAIN, WASTE, WATER, GAS, ETC. COORDINATE WITH THE OTHER TRADES TO PROVIDE COMPLETE OPERATIONAL APPROVED SYSTEMS AT NO EXTRA COST.
- 40. CONTRACTOR SHALL PROVIDE AND INSTALL A S.O.V, GAS COCK, OR STOP AT EACH PIECE OF EQUIPMENT FURNISHED BY OTHERS REQUIRING DRAIN, WASTE, WATER, GAS, ETC. COORDINATE WITH THE OTHER TRADES TO PROVIDE COMPLETE OPERATIONAL APPROVED SYSTEMS AT NO EXTRA COST.
- 41. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND LABOR/SERVICES REQUIRED BY A.H.J TO ENSURE COMPLETE FUNCTIONAL APPROVED SYSTEMS FOR THIS T.I WORK, AND TO ENSURE THAT ALL EXISTING SYSTEMS THAT ARE TOUCHED BY CONTRACTOR DURING THE T.I NEW SCOPE, STAY IN COMPLETE APPROVED FUNCTIONAL CONDITION (FOR EXAMPLE, FOR OPENING (E)FLOORS, (E)WALLS, ETC., FOR THE CONNECTIONS OF NEW WORK TO EXISTING SYTEMS, OR IF ANY EXISTING SYSTEMS/PIPES MIGHT REQUIRE TO BE MODIFIED TO ALLOW THE NEW WORK, SHALL BE
- 42. CONTRACTOR SHALL PROVIDE SUBMITTALS AND SHOP DRAWINGS PRIOR TO ORDERING ANDY EQUIPMENT, MATERIALS, PARTS, FOR APPROVAL BY ARCHTECT, DESIGN TEAM, OWNER REPRESENTATIVE/OWNERSHIP.
- 43. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY CONTINUOUSLY REGARDLESS OF NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE DESIGN TEAM/ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

REMARKS, NOTES

HAWS MODEL 1011-1920, ADA COMPLIANT, HI-LOW DF, 1 BOTTLE FILLER, AND ALL REQUIRED PARTS AND

APPURTENANCES, INDOOR INSTALLATION IN-WALL, IN EXISTING WALL THAT WILL BE OPENED TO THE STUDS;

<u>SELECTION AND INSTALLATION SHALL BE APPROVED BY ARCHITECT & SCHOOL P.M PRIOR TO PURCHASING;</u>

●(TWO)6700 (HEAVY DUTY 3/16" STEEL PRE-DRILLED IN-WALL MOUNTING PLATE WITH ALL THREAD STUDS &

THAT GO WITH 6700, IF IT IS CONSTRUCTABILITY FEASIBLE TO INSTALL THEM IN THE EXISTING WALL)

● 6800 (IN-WALL, FLOOR MOUNTED, FIXTURE SUPPORT LEGS W/ (2) BOLTED FLOOR FLANGES 4.5" X 2.5" X 3/16"

● DF 1011, WITH SATIN FINISH STAINLESS STEEL, MANUALLY OPERATED WITH PUSH BUTTON,

HARDWARE, FOR THE SINGLE BUBBLER FOUNTAIN AND FOR THE BOTTLE FILLER HEAD;

GUY GRAY 82583 FRM12SHA OUTLET BOX, TURN ARRESTER VALVE, 1/2" SWEAT CONNECTION,

J.R. SMITH NO. 2010C-U, ROUND COVER- REFER TO ARCHITECTURAL DWGS FOR FLOORING

STRAINER HEAD. PROVIDE WITH TRAP PRIMER CONNECTION AND VANDAL PROOF SCREWS.

WATER HAMMER ARRESTOR WATTS LF15M2, OR J.R. SMITH HYDROTROL 3/4" MODEL 5005.

A.P TO MATCH THE ARCHITECTURAL FIRE AND SMOKE RATING OF THE WALL.

TYPE AND FLOOR DRAIN TYPE: DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE

BATTERY TRAP PRIMER, MINI-PRIME WITH NEMA TYPE 1, UL 50, 12" x 12" x 4" - 16 GAUGE STEEL W/SCREW ON

COVER ANSI 61 GRAY POLYSETER POWDER PAINT, BATTERY OPERATED TRAP PRIMING MANIFOLD MPB-500-12V WITH

PROVIDE AND INSTALL FIRE RATED ACCESS PANEL IF REQUIRED, WITH STAINLESS STEEL DOOR AND CYLINDER LOCK ;

WATER HAMMER ARRESTOR J. R. SMITH HYDROTROL 5005, WITH FIRE RATED ACCESS PANEL PER THE WALL RATING;

12" X 12" A.P., 1.5 HR FIRE RATED, JR SMITH 4768—12X12—SS—CL STAINLESS STEEL DOOR AND CYLINDER LOCK. PROVIDE A.P MODEL AND FIRE AND SMOKE RATING PER ARCHITECTURAL FIRE/SMOKE RATING AND SEE NOTE 2 BELOW.

NON—ADA, AMERICAN STANDARD MADERA FLOWISE 15" HEIGHT ELONGATED BOWL WITH EVERCLEAN GLAZE, DIRECT FED

SIPHON JET, VITREOUS CHINA, TOP SPUD, MODEL 3451001, ADEQUATE FOR FLOW BETWEEN 1.1 GPF AND 1.6 GPF ,

WITH SLOAN FLUSH VALVE MANUALLY OPERATED, POLISHED CHROME, MODEL ROYAL 111-1.28 GPF, HEAVY DUTY SEAT. OPEN FRONT. LESS COVER. ELONGATED SEAT BEMIS 1955 SSCT. STA-TITE COMMERCIAL FASTENING SYSTEM.

ADA, AMERICAN STANDARD MADERA FLOWISE 16.5" HEIGHT ELONGATED BOWL WITH EVERCLEAN GLAZE, DIRECT FED

OPEN FRONT. LESS COVER. ELONGATED SEAT BEMIS 1955 SSCT. STA-TITE COMMERCIAL FASTENING SYSTEM

SIPHON JET, VITREOUS CHINA, TOP SPUD, MODEL 3461.001, ADEQUATE FOR FLOW BETWEEN 1.1 GPF AND 1.6 GPF,

WITH SLOAN FLUSH VALVE MANUALLY OPERATED, POLISHED CHROME, MODEL ROYAL 111-1.28 GPF, HEAVY DUTY SEAT

INSTALL ACCORDING TO MANUFACTURER RECOMMENDATIONS ON THE HORIZONTAL LINE TO EACH WATER CLOSET.

●1920 BOTTLE FILLER 1GPM WITH 6700 MOUNTING PLATE FOR BOTTLE FILLER,

PROVIDE AND INSTALL ALL PARTS REQUIRED FOR INSTALLATION IN THE (E) WALL OPENED TO THE STUD WALL:

PLUMBING BASIS OF DESIGN

GOVERNING CODES AND STANDARDS

- 2019 CALIFORNIA BUILDING CODE BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC), WITH CITY OF NORCO AND APPLICABLE LOCAL AMENDMENTS.
- 2019 CALIFORNIA PLUMBING CODE ENFORCED BY A.H.J
- CODE (UPC), WITH CITY OF NORCO AND APPLICABLE LOCAL AMENDMENTS.
- 2019 CALIFORNIA ENERGY CODE BASED ON TITLE 24, PART 6.
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE WITH NORCO A.H.J REQUIREMENTS
- AMERICANS WITH DISABILITY ACT (ADA).
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATIONS
 OCCUPATIONAL SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, 29 CFR, PARTS
 1926 1910

PLUMBING DESIGN CRITERIA A. EXIST ITEMS TO BE RETAINED:

(E) WASTE, VENT, MAINS AND BRANCHES CW AND HW, GRAYWATER IF ANY, STORM DRAIN STACKS TO REMAIN UNLESS THE NEW SYSTEMS REQUIRE THEM TO BE RELOCATED; IF THE NEW SYSTEMS MIGHT REQUIRE ANY EXISTING SYSTEMS TO BE RELOCATED, CONTRACTOR SHALL PROVIDE AS REQUIRED RELOCATION OF ANY EXISTING SYSTEMS.

(E)CW AND (E)HW FROM DEMOLISHED FIXTURES SHALL BE REMOVED UP TO NEAREST ACTIVE TEE, OR REPLACED WITH NEW IN CASE THAT THERE ARE GOING TO SERVE NEW FIXTURES NEARBY.

EXISTING HVAC CONDENSATE DRAINS FROM EXISTING TO REMAIN AC UNITS, TO REMAIN. EXISTING WASHER & DRYER FROM GIRLS AREA SHALL BE RELOCATED IN BOY'S AREA.

B. POTENTIAL MODIFICATIONS OF (E) SYSTEMS/PIPING/STACKS/RISERS:

CONTRACTOR SHALL VERIFY THE SITE PRIOR TO BIDDING AND INFORM THE ARCHITECT AND DESIGN TEAM IF THE NEW TI WORK MIGHT IMPACT IN ANY WAY THE (E) SYSTEMS, AND TO PROVIDE SOLUTIONS TO CLEAR POTENTIAL CONFLICTS BETWEEN EXISTING SYSTEMS AND COMPONENTS AND THE NEW WORK PART OF

. <u>NEW WORK</u>:

THIS PROJECT SCOPE.

PLUMBING FIXTURES: NEW FIXTURES INCLUDING TRIM, SUPPORTS, BACKING, AND ALL APPURTENANCES, SHALL BE PROVIDED AS PER ARCHITECTURAL DRAWINGS REQUIREMENTS, AND AS APPROVED BY SCHOOL P.M./REPRESENTATIVES PRIOR TO ORDERING. OBTAIN ARCHITECT AND OWNERSHIP APPROVAL PRIOR TO ORDERING.

WASTE AND VENT PIPING: WASTE AND VENT PIPING ABOVE SLAB ON GRADE WILL BE HUBLESS CAST IRON WITH STANDARD COUPLINGS.

NEW CONDENSATE DRAIN FROM NEW FAN COIL UNIT WILL RUN SLOPING ABOVE NEW CEILING AND CONNECT AS APPROVED BY A.H.J; MATERIALS PER 2019 CPC AND PER A.H.J REQUIREMENTS.

HOT AND COLD WATER PIPING: ALL NEW PIPING ABOVE GROUND WILL BE COPPER TYPE "L" WITH PRESS FITTING JOINTS. COPPER TYPE "K" FOR UNDERGROUND WATER PIPING.

INSULATION: PROVIDE INSULATION PER TITLE 24 AND PER A.H.J REQUIREMENTS, FOR ALL TEMPERED WATER, HOT WATER PIPING, FOR PLUMBING FOR ADA COMPLIANT PLUMBING FIXTURES. LOCATIONS SERVED WITH TEMPERED WATER, HOT WATER WILL HAVE INSULATION INSTALLED UNDER THE FIXTURE, ON THE DRAIN, ON THE TEMPERED WATER, ON THE HOT AND COLD WATER PIPING TO PREVENT SCALDING.

<u>DIELECTRIC</u>: CONNECTIONS BETWEEN DISSIMILAR MATERIALS SHALL BE MADE WITH A.H.J APPROVED DIELECTRIC UNIONS, AND/OR COUPLINGS/JOINTS APPROVED BY A.H.J FOR CONNECTING THEM.

PLUMBING SCOPE OF WORK

I REMODEL OF MULTIPURPOSE ROOM, OF GIRLS' AND BOYS' AREAS, INCLUDING
 — GIRLS' AREA (NORTH): DEMOLITION OF SOME EXISTING PLUMBING ITEMS: (1) (E)WH,
 (2) (E) DRINKING FOUNTAINS, INCLUDING, AS APPLICABLE, REMOVING PORTIONS OF

REMOVING AND REPLACING AN EXISTING DRINKING FOUNTAIN WITH NEW, &

RELATED UTILITIES, OF THE FLUE, VALVING AND CAPPING (E) UTILITIES;

RECONNECTING TO (E) UTILITIES IN THE MPR ROOM;

- ADDING A NEW ADA WC IN GIRLS TOILET ROOM, AND THE OTHER 2 WATER CLOSETS TO BE ADJUSTED LOCATION PER ARCHITCETURAL AND AS NEEDED, AS REQUIRED, AND TO BE REPLACED WITH NEW, INCLUDING ALL REQUIRED DEMO WORK, CAPPING (E)UTILITIES, REROUTING (EOUTILITIES AS REQUIRED/AS NEEDED, PROVIDING AND INSTALLING NEW PIPING AND RECONNECTING TO (E)UTILITIES, COORDINATING WITH ARCHITECT AND STRUCTURAL ON THE PIPING, NEW FIXTURES AND (E)WALLS FOUNDATIONS, X—RAY SLAB, TRENCHING, CLOSING SLAB TO REQUIRED STRUCTURAL AND ARCHITECTURAL AND SCHOOL DISTRICT STANDARDS/CONDITION.
- MOVING THE (E) WASHER & (E) DRYER FROM GIRLS AREA TO BOYS AREA, PER ARCHITECTURAL LAYOUT. REMOVING THE (E) SHOWERS LOCATED EXPOSED ON THE WALLS, CAPPING THE RELATED PIPING, KEEPING THE (E) FLOOR DRAINS, IN THIS ROOM WHER THE (E)WASHER/DRYER IS RELOCATED IN, IN BOYS AREA; MAINTAINING THE (E)FLOOR DRAINS NEAR THE RELOCATED WA/DRYER.
- REMOVING, CAPPING EXISTING PIPING FOR THE DEMOLISHED FIXTURES/ITEMS, AND PROVIDING NEW PLUMBING FIXTURES AND RELATED PIPING, TRIM, AND APPURTENANCES, AND CONNECTING THEM TO (E) SANITARY WASTE & VENT SYSTEMS, TO (E) CW, AS CONTRACTIBILITY FEASIBLE.
- AS NEEDED, ADDING NEW CONDENSATE DRAIN FROM NEW FAN COIL UNITS AND CONNECTING IT PER A.H.J, REQUIREMENTS, TO LAVATORY TAILPIECE OR OTHERWAY APPROVED BY A.H.J
- CONTRACTOR SHALL COORDINATE WITH ARCHITECT & STRUCTURAL FOR ANY PENETRATIONS THROUGH (E) ROOF AS REQUIRED TO INSTALL NEW PLUMBING, AND SHALL PATCH/REPAIR TO MATCH EXISTING AND THE ARCHITECTURAL, STRUCTURAL, AND DISTRICT STANDARDS/REQUIREMENTS. REFER TO 11/S-101 FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL VERIFY AND INFORM ARCHITECT IF THEY MIGHT FIND ANY CONFLICTS BETWEEN EXISTING SYSTEMS AND NEW PLUMBING ITEMS IN SCOPE OF THIS PROJECT.

DRAWING NO.	DRAWING DESCRIPTION	TOTAL SHEETS
P001	PLUMBING LEGEND, NOTES	1
P111D	PLUMBING FLOOR PLAN - DEMOLITION	
P112D	PLUMBING DEMOLITION ROOF PLAN	3
P101	PLUMBING FLOOR PLAN - NEW WORK-WATER, WASTE VENT, COND.DRAINAGE	4
P112	PLUMBING ROOF PLAN - NEW WORK, COND. DRAINS	5

APPLICABLE CODE: 2019 CBC

PIPING SYSTEM BRACING NOTE

DIDING DISTRIBUTION SYSTEMS SHALL BE BRACED.

PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7–16 SECTION 13.3 AS DEFINED IN ASCE 7–16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE DEPOSITION SYSTEM ARE AS NOTED BELOW WHEN

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PLUMBING PIPING DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 04-121721 INC:

REVIEWED FOR

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DATE: 05/10/2023

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ARCHITECT STAMP

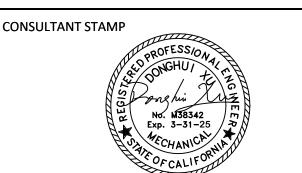
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NSULTANT:

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PROJECT OWNER:



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(951) 736-5000

MARK DATE

CORONA FUNDAMENTAL
INTERMEDIATE SCHOOL - MPR
RENOVATION

1230 S Main St, Corona, CA 92882

DESCRIPTION

12/13/2022	20,1002.111111.
03/24/2023	DSA BACK-CHECK

22063.01

SHEET TITLE:

PROJECT NO .:

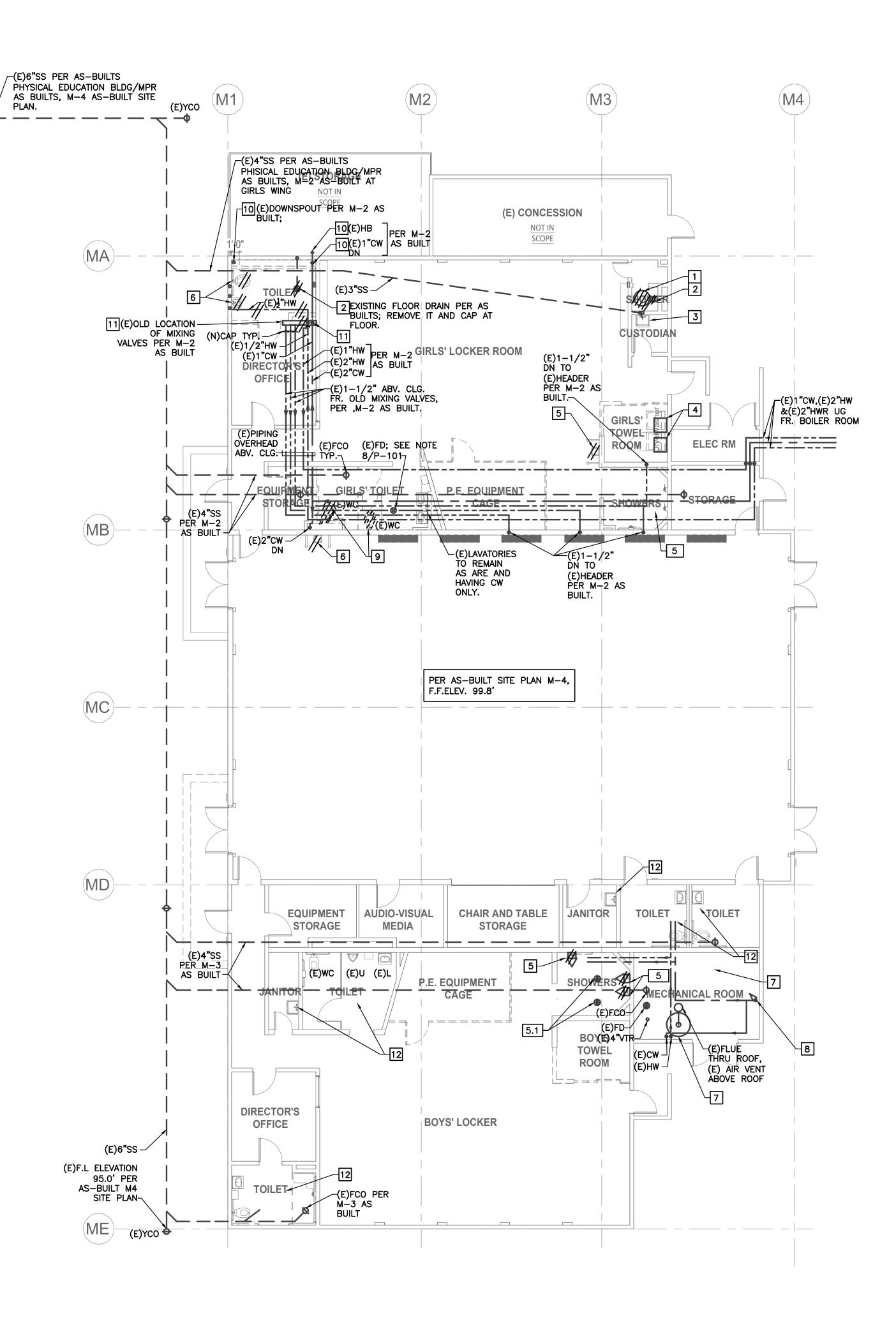
PLUMBING LEGEND,

NOTES

EET NO.:

P-001

/24/202



DEMOLITION AND KEY NOTES

- A. ALL THE EXISTING PLUMBING PIPING & SIZES, INFORMATION SHOWN, IS PER THE OLD AVAILABLE AS-BUILTS M-2 (GIRLS AREA), M-3 (BOYS AREA), M-4 (SITE PLAN INFORMATION) FOR MPR/PHYSICAL EDUCATION BLDG. ALL THE EXISTING INFORMATION MUST BE VERIFIED IN THE FIELD BY CONTRACTOR. FOR PLUMBING FIXTURES LOCATIONS AND DEMOLITION SCOPE SEE ARCHITECTURAL DWGS.
- B. WHEREVER EXISTING PLUMBING FIXTURES ARE REMOVED OR RE-LOCATED, CAP PIPING IN WALL, ABOVE CEILING OR BELOW SLAB. WATER PIPING TO BE CAPPED AT NEAREST ACTIVE TEES.
- C. WHEREVER EXISTING PLUMBING FIXTURES ARE REMOVED FROM SITE AND WASTE PIPING HAS TO BE CAPPED BELOW SLAB ON GRADE, X-RAY EXIST. SLAB AND RESTORE ACCORDING TO STANDARD STRUCTURAL REQUIREMENTS, DOWELS, REBARS AND FILL-IN MATERIALS.
- EXISTING WATER HEATER SHALL BE REMOVED FROM SITE.

 VALVE AND CAP EXISTING PIPING ABOVE CEILING CLOSEST TO THE NEAREST ACTIVE TEE. REMOVE EXIST. GAS LINE TO NEAREST ACTIVE TEE.

 REMOVE PORTIONS OF EXIST. FLUE UP TO CEILING. CAP REMAINING FLUE THRU ROOF BELOW CEILING AND ABOVE ROOF.
- 2 REMOVE EXIST. FLOOR DRAINS AND CAP PIPING BELOW SLAB.
- 3 EXISTING SERVICE SINK TO REMAIN FUNCTIONAL.
 THE EXISTING HOT WATER SUPPLY TO IT SHALL BE VALVED AND CAPPED IF IT COMES FROM THE (E)WH IN THE ROOM ABOVE, (E)WH WHICH IS DEMOLISHED PART OF THIS SCOPE.
- EXISTING WASHER SHALL BE RE-LOCATED TO BOYS AREA IN THE EXISTING SHOWERS ROOM SHOWN ON THIS PLAN.
- 5 REMOVE ALL EXIST. SHOWER TRIM, AND DRINKING FOUNTAIN INCLUDING UN-USED
- (E)FLOOR DRAIN TO REMAIN. CONTRACTOR SHALL VERIFY IF THEY HAVE (E)TRAP PRIMERS. IF NOT, CONTRACTOR SHALL PROVIDE NEW BATTERY TRAP PRIMERS. SEE
- 6 REMOVE EXIST. PLUMBING FIXTURES AS SHOWN.
- 7 EXIST. MECHANICAL EQUIPMENT ROOM: ALL EXISTING EQUIPMENT, DRAINS AND PIPING TO REMAIN.
- 8 EXIST. BUILDING 3" (PER AS-BUILT M-3) COLD WATER FROM BELOW GRADE SUPPLY TO REMAIN.
- 9 (E)PLUMBING FIXTURES IN GIRLS TOILET: CONTRACTOR SHALL INVESTIGATE EXISTING CONDITION OF THE (E)PIPING, IN THE (E)WALL, (E)CHASE, AND UNDER THE FLOOR, AND SHALL PROPOSE RELOCATION PLAN/SOLUTION PRIOR TO DEMOLITION. VERIFY WITH ARCHITECT WHICH FIXTURES GET DEMOLISHED PRIOR TO STARTING DEMO WORK.

 SEE NEW WORK SCOPE AND DESIGN INTENT ON ARCHITECTURAL DWGS AND ON P-101.

 FOR EXACT LOCATION OF FIXTURES REFER TO ARCHITECTURAL.
- 10 CONTRACTOR SHALL RELOCATE AS NEEDED, IF NEEDED, IF REQUIRED.
- 11 REMOVE (E) MIXING VALVES, CAP PIPING ABOVE CEILING, ABOVE THE NEW RCP.
- 12 (E) FIXTURES TO REMAIN.

AUTHORITY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

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CORONA FUNDAMENTAL
INTERMEDIATE SCHOOL - MPR
RENOVATION

1230 S Main St, Corona, CA 92882

MARK	DATE	DESCRIPTION
	12/19/2022	DSA SUBMITTAL
	03/24/2023	DSA BACK-CHECK

SHEET TITLE:

PROJECT NO.:

PLUMBING DEMOLITION PLAN

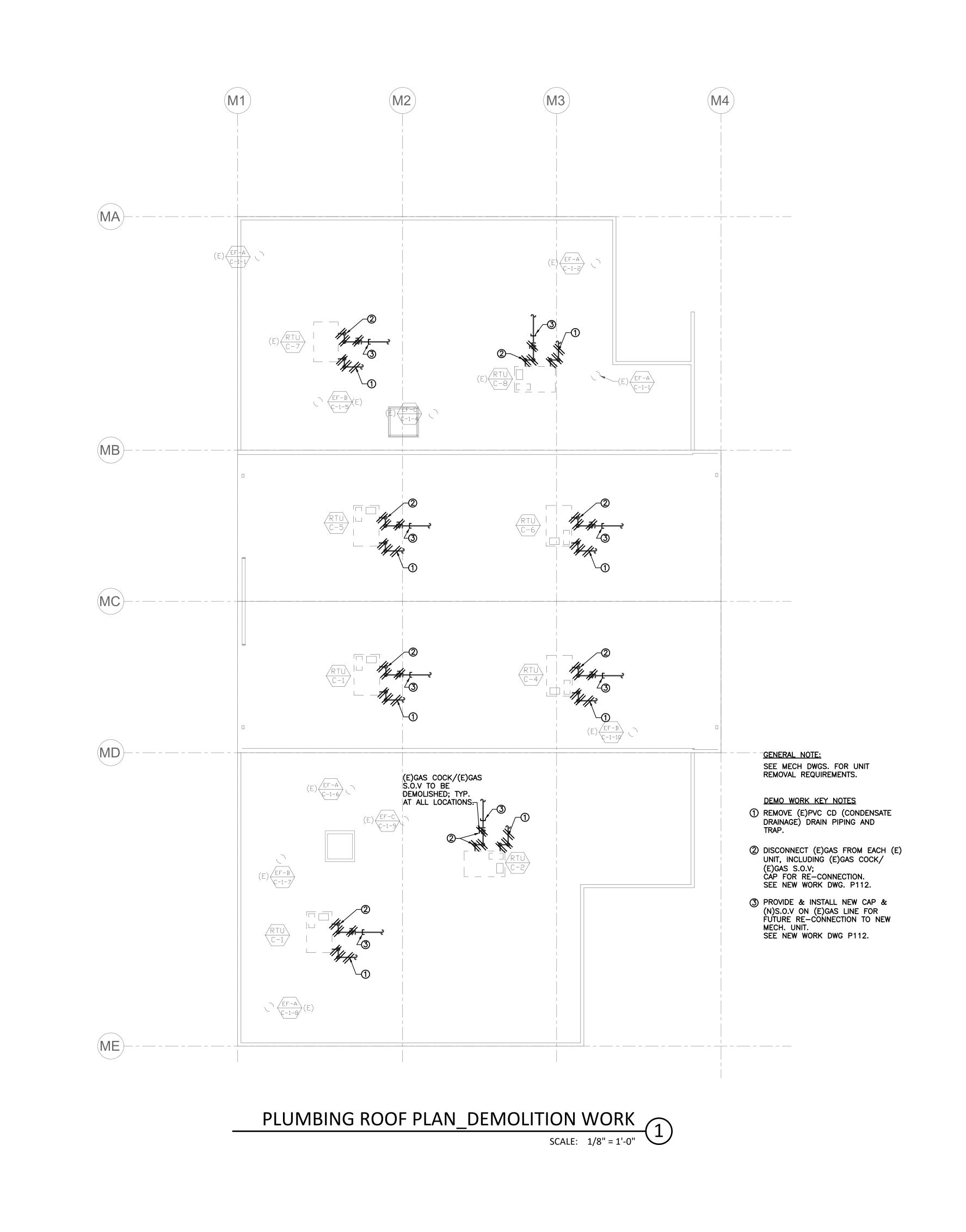
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SHEET NO

P-111D

PLUMBING DEMOLITION PLAN

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



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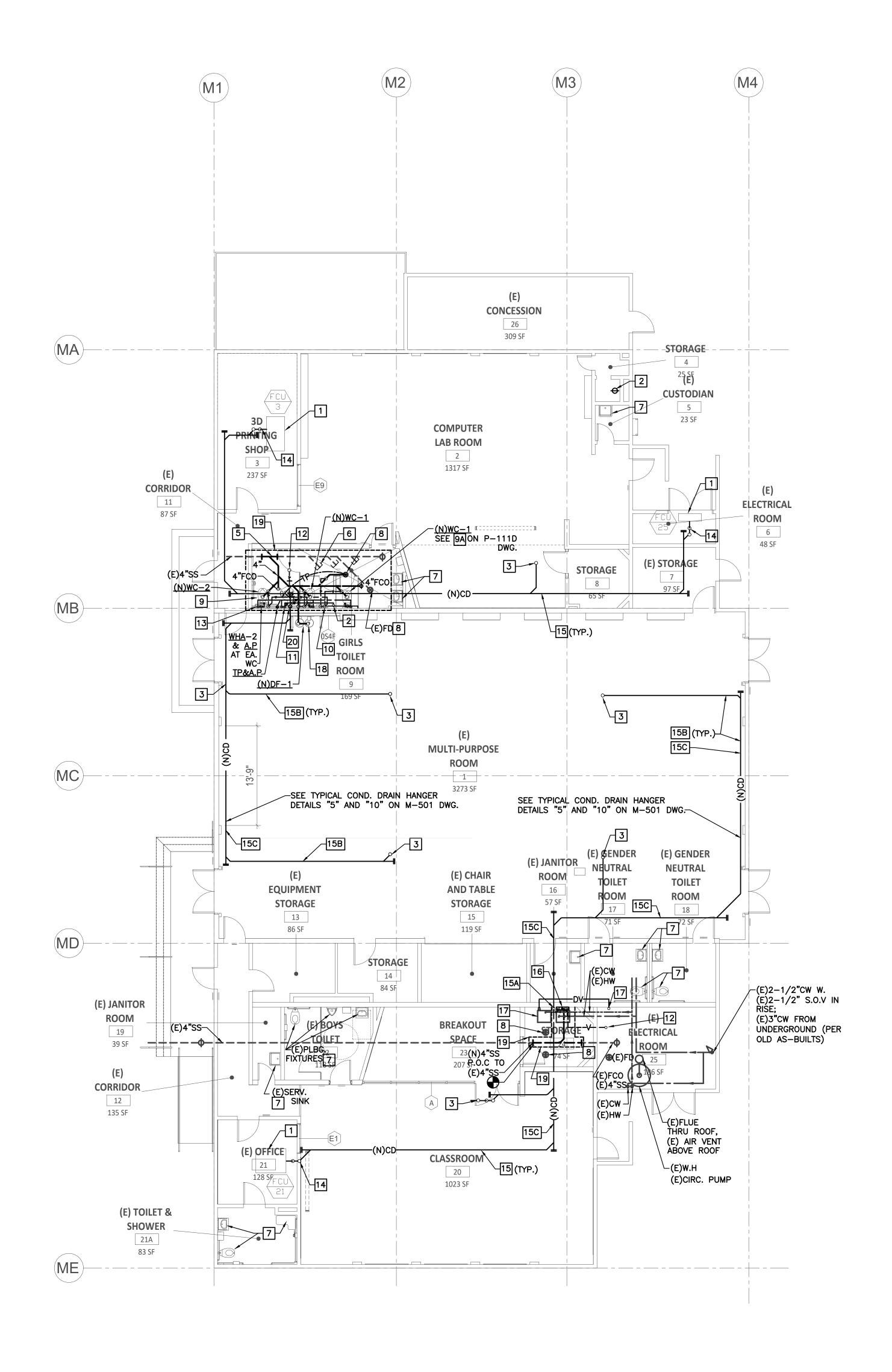
PROJECT NO.:

SHEET TITLE:

PLUMBING **ROOF PLAN DEMOLITION** WORK

22063.01

P-112D



GENERAL NOTE

FOR PIPES HANGERS AND SEISMIC SUPPORTS SEE M-501/DETAIL 5 FOR PIPE SUPPORT, AND DETAIL 10.
PROVIDE THE HANGERS AND PIPES SUPPORTS WITH APPROVED BY A.H.J THICK FELT OR NON CONDUCTIVE RUBBER BETWEEN DISSIMILAR MATERIALS.
PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR MATERIALS. TYPICAL FOR ALL CONNECTIONS BETWEEN DISSIMILAR MATERIALS.

NEW WORK KEY NOTES

- 1 (N) FAN COIL UNITS ABOVE CLG. CONN. W./ 3" CD AND ROUTE TO NEAREST FIXTURE TAILPIECE OR SERVICE/FLOOR SINK. (TYP.)
- 2 EXIST. 2" CW. MAKE POC ABOVE CLG, DROP IN NEW FURRING AND CONN. ALL NEW PLBG. FIXTURES AS SHOWN. INSTALL BALL VALVE AND ACCESS PANEL AT 6' ABV. FIN. FLOOR.
- (N)3/4" CONDENSATE DRAIN PIPING FROM ABOVE ROOF. ROUTE ATTACHED TO WALL TO COMMON CD, DROP IN FURRING AND SPILL TO DRINKING FOUNTAIN TAILPIECE, AND AT WASHER BOX DRAIN WITH AIR GAP.

 CONDENSATE LINES SHALL TIE INTO TAILPIECES WITH STAINLESS STEEL FLEXIBLE BRAIDED HOSE AT DRINKING FOUNTAIN OR SINK TAILPIECES, OR TO WASHER DRAIN BOX, FOR MAINTENANCE PURPOSE. PROVIDE DIELECTRIC CONNECTIONS BTW. DISSIMILAR MATERIALS, TYPICAL.
- 2" VENT. CONN. ALL NEW FIXTURE IN NEW 6" FURRING. MAKE POC TO EXIST. VTR. VERIFY EXACT LOCATION IN FIELD. INSTALL AT MORE THAN 10FT AWAY FROM ANY AIR INTAKE ON THE ROOF.
- MAKE POC TO EXIST. 4" WASTE BELOW SLAB. VERIFY FINAL LOCATION IN FIELD. VERIFY CONDITION OF EXIST. WASTE BELOW SLAB AND ADVISE IF MORE THEN WYE SHOULD BE REPLACED. USE SURVEILLANCE CAMERAS TO DERMINE EXIST. WASTE LOCATION AND ELEVATIONS AS REQUIRED.
- 6 CAP EXIST. UN-USED WASTE PIPING BELOW SLAB. (TYP.)
- 7 EXIST. PLUMBING FIXTURE TO REMAIN.
- EXIST. FLOOR DRAIN TO REMAIN IF TRAP PRIMER IS ACTIVE AND WORKS. IF NOT, REMOVE EXIST. FLOOR DRAIN AND INSTALL NEW FD-1 AND TRAP PRIMER WHERE FLUSH VALVES ARE AVAILABLE AND BATTERY OPERATED TRAP PRIMER AND ACCESS BOX WHERE NO FLUSH VALVES ARE ASSISTING OPERATION. VERIFY WITH ARCHITECTURAL AND STRUCTURAL REGARDING SLOPING OF FLOOR WITH THE NEW WATER CLOSETS LAYOUT.
- 9 NEW FURRING. SEE ARCH. DWGS. FOR REQUIREMENTS.
 SEE NOTE ON P-111D: CONTRACTOR SHALL INVESTIGATE EXISTING CONDITION OF THE (E)PIPING, IN THE (E)WALL, (E)CHASE, AND UNDER THE FLOOR, IN RELATION TO THE (E)WALL FOUNDATION, AND SHALL PROPOSE NEW PIPING ROUTING PLAN/SOLUTION THAT WORKS WITH THE (E)WALL FOUNDATION AND THE (E)PIPING AND THE NEW STALLS. NEW STALLS AND NEW PLBG. FIXTURES EXACT LOCATIONS DEED ARCHITECTURAL
- 2" VENT FR. BEL. SLAB UP TO ABV. CLG. AND CONN. TO NEW VENT. (TYP.) CONNECT TO EXISTING VENT UP TO ROOF.
- DROP 2" CW IN NEW FURRING, INSTALL SOV AND ACCESS PANEL. ROUTE PIPING TO ABV. CLG. AND DROP AT EACH FIXTURE LOCATION AS REQUIRED.
- 12 MAKE POC TO EXIST. 4" VTR. VERIFY EXACT LOCATION IN FIELD.
- 13 DROP 2" CW IN NEW FURRING AND CONN. TO FLUSH VALVE. (TYP.)
- 3/4" COND. TRAP. MAKE POC TO COND. DRAIN PUMP. ROUTE TO COMMON DRAIN LINE.
- AT GIRLS AND BOYS AREAS; 3/4" COND. DRAIN ABV. CLG. SLOPE AT 1/8"/FT. ALL COND. DRAIN LINES TO BE INSULATED 1/2" THICK 25/50/E84 INSULATION.
- 3/4" COND. DRAIN DROP WITH AIR GAP INTO WASHER BOX DRAIN; CONDENSATE LINES SHALL TIE INTO TAILPIECES WITH FLEXIBLE BRAIDED HOSE AT DRINKING FOUNTAIN OR SINK TAILPIECES, OR WASHER DRAIN BOX, FOR MAINTENANCE PURPOSE.
- AT MPR: 3/4" COND. DRAIN RUN AS CLOSE AS POSSIBLE TO UNDERSIDE OF ROOF AND BEAMS, TRY TO CONCEAL IN BEAM POCKET, AND RUN ON THE WALL AS HIGH AS POSSIBLE TO COMMON LINE AND POINT OF DISCHARGE.
- AS FEASIBLE, RUN 3/4" COND. DRAIN RUN AS CLOSE AS POSSIBLE TO WALLS, TO MINIMIZE APPEARANCE OF THE EXPOSED COND. DRAIN PIPING.
- 2" W, 1 $\frac{1}{2}$ " V, $\frac{3}{4}$ " H &. CW IN WASHER WALL BOX ATTACHED TO EXIST. TILED WALL. COORDINATE FINAL LOCATION IN FIELD.
- EXIST. DRYER RE-LOCATED UNDER ANOTHER SECTION OF THE WORK. INSTALL NEW 4" SIZE DRYER VENT UP THRU ROOF AS SHOWN. INSTALL THE VTR MORE THAN 10 FT AWAY FROM ANY AIR INTAKE ON THE ROOF.
- 18 DRINKING FOUNTAIN WALL SUPPORT. SEE STRUCTURAL DWGS. FOR DETAILS.
- 19 NEW TRENCH APPROXIMATE BOUNDARY, ESTIMATED EXTENT— SEE STRUCTURAL DWGS. FOR TRENCH DETAILS INCLUDING SLAB & REBARS REPAIR DETAILS.
- NEW 3" COND. DRAIN CONN. TO DRINKING FOUNTAIN TAILPIECE. USE STAINLESS STEEL BRAIDED HOSE FROM WALL OUTLET TO TAILPIECE INLET WITH DIELECTRIC CONNECTION BTW. DISSIMILAR MATERIALS, FOR MAINTENENCE PURPOSES.

AUTHORITY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 04-121721 INC:

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No. M38342

Exp. 3-31-25

PROJECT OWNER:

CORONA NORCO UNIFIED SCHOOL DISTRICT



2820 Clark Ave, Norco, CA 92860 (951) 736-5000

PROJECT NAME:

CORONA FUNDAMENTAL
INTERMEDIATE SCHOOL - MPR
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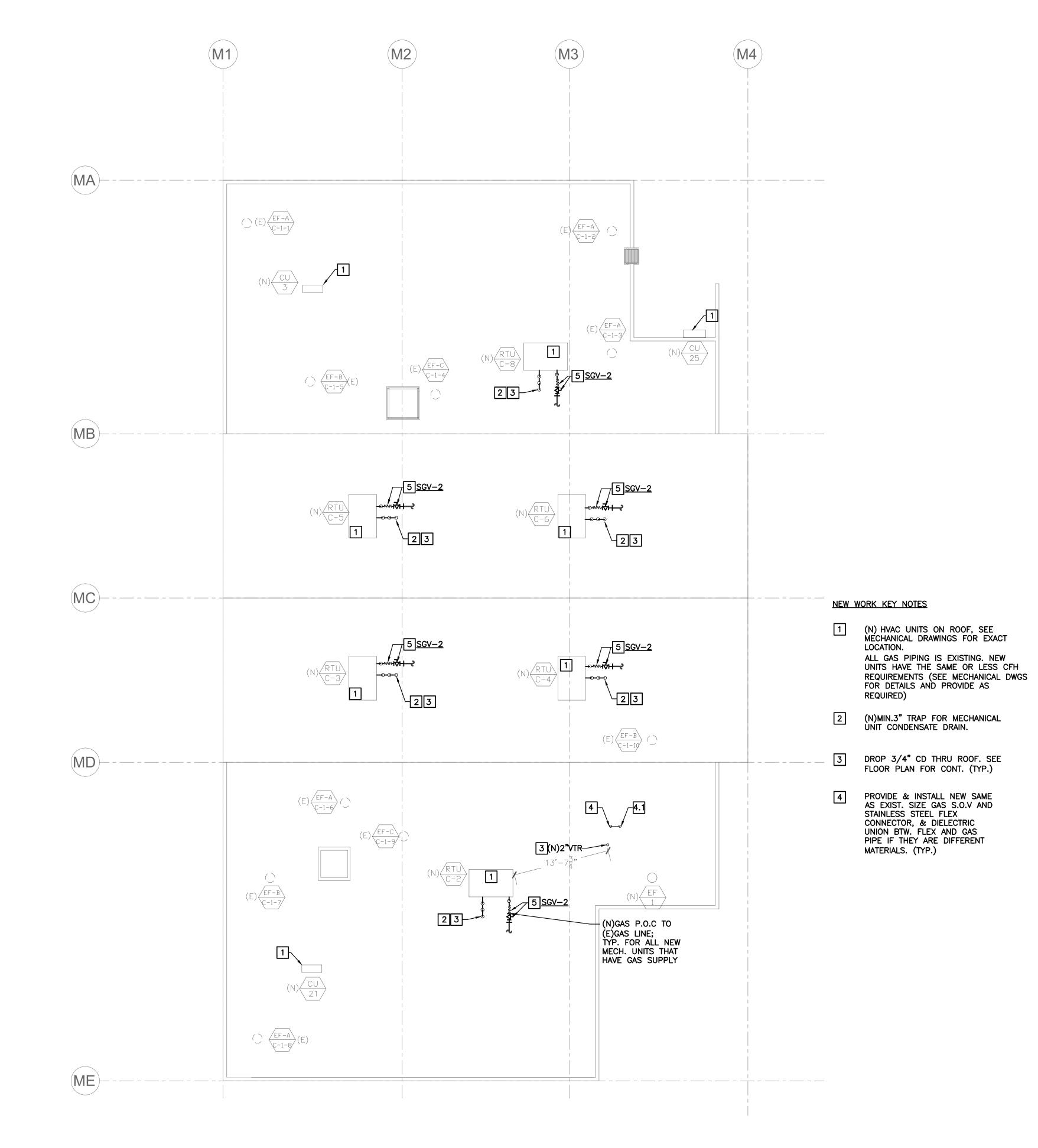
PLUMBING NEW WORK PLAN, WATER, WASTE & VENT

SHEET NO

P-101

PLUMBING NEW WORK PLAN- WATER, WASTE, VENT

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



DESIGN GROUP LISTEN COLLABORATE CREATE 889 N. DOUGLAS STREET, SUITE 100 EL SEGUNDO, CA 90245 [T]: 310.821.9200 www.csdadesigngroup.com ARCHITECT STAMP CONSULTANT: 2866 BIRCH LN. POMONA, CA 91767 (213) 503-2332 CONSULTANT STAMP PROJECT OWNER: CORONA NORCO UNIFIED SCHOOL DISTRICT 2820 Clark Ave, Norco, CA 92860 (951) 736-5000 CORONA FUNDAMENTAL INTERMEDIATE SCHOOL - MPR RENOVATION 1230 S Main St, Corona, CA 92882 DESCRIPTION 12/19/2022 DSA SUBMITTAL 03/24/2023 DSA BACK-CHECK 22063.01 PROJECT NO.: SHEET TITLE: **PLUMBING ROOF PLAN NEW WORK**

P-112

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APP: 04-121721 INC:

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PLUMBING ROOF PLAN_NEW WORK

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