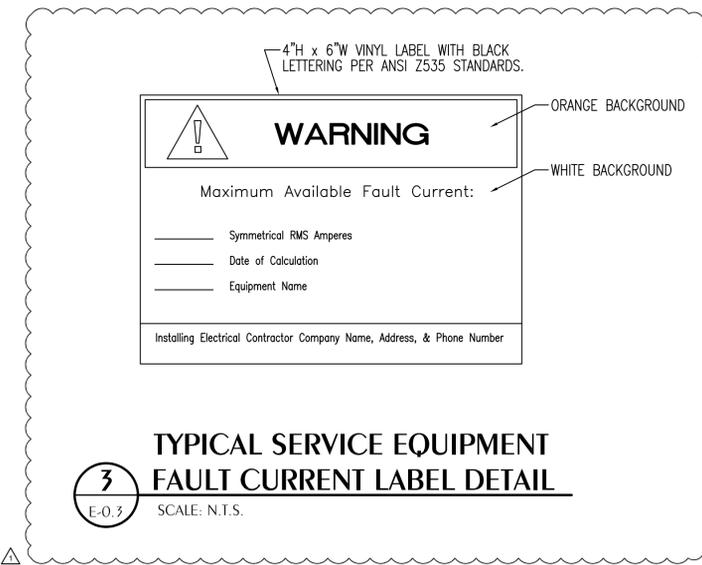


2 GROUNDING SYSTEM RISER DIAGRAM
E-0.3 SCALE: N.T.S.



3 TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL
E-0.3 SCALE: N.T.S.

120/240 VOLT 1Ø 3W 200 AMP MAIN BREAKER SURFACE MOUNTED NEMA 3R ENCLOSURE

CIRCUIT BREAKER PANEL SCHEDULE PANEL 'MP'

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1	HP-1	2	25	3.08	45	2	AHU-1	2
3				8.64				4
5	HP-2	2	20	2.50	30	2	AHU-2	6
7				5.57				8
9	MHP-1	2	25	2.11	30	2	EWI-1	10
11				3.00				12
13	SPACE	1		0.32	20	1	LUS-EXTERIOR	14
15				0.20	20	1	CBB	16
17				0.20	20	1	CBB	18
19				--	20	1	SPARE	20
21								22
23								24
25								26
27	PANEL LP	2	100	12.54	30	2	SURGE SUPPRESSOR	28
29								30

TOTAL CONNECTED LOAD: 38.16 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① HACR RATED BREAKER, VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED
② FURNISH BREAKER WITH HANDLE 'LOCK-ON' CAPABILITIES
③ FURNISH BREAKER W/ HANDLE 'LOCK-OFF'

120/240 VOLT 1Ø 3W 125 AMP MAIN LUG ONLY SURFACE MOUNTED NEMA 1 ENCLOSURE

CIRCUIT BREAKER PANEL SCHEDULE PANEL 'LP'

CKT	LOAD DESCRIPTION	BREAKER POLE	AMP	LOAD KVA	BREAKER AMP	POLE	LOAD DESCRIPTION	CKT
1		1	20		20	1		2
3		1	20		20	1		4
5		1	20		20	1		6
7		1	20		20	1		8
9		1	20		20	1		10
11		1	20		20	1		12
13		1	20		20	1		14
15		1	20		20	1		16
17		1	20		20	1		18
19		1	20		20	1		20
21		1	20		20	1		22
23		1	20		20	1		24
25		1	20		20	1		26
27		1	20		20	1		28
29		1	20		20	1		30

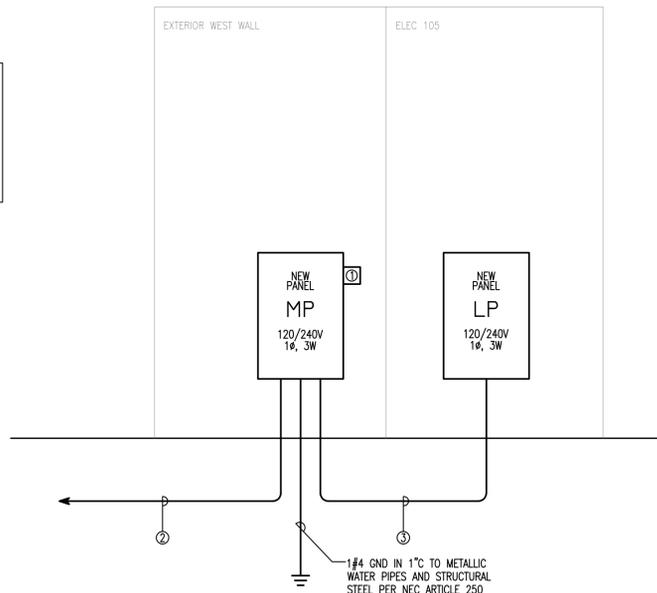
TOTAL CONNECTED LOAD: 12.54 KVA
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

① HACR RATED BREAKER, VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED
② FURNISH CFCI BREAKER
③ FURNISH BREAKER W/ HANDLE 'LOCK-ON'

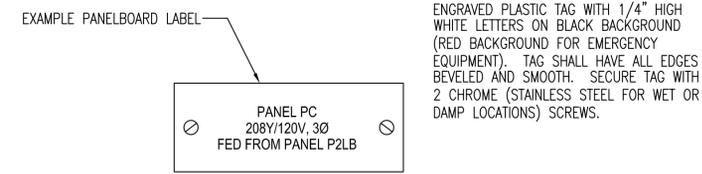
- KEYNOTES:
- ① SURGE SUPPRESSOR
 - ② 3/4" Ø CU, 1#6 GND IN 2-1/2" C BY OTHERS. EC TO STUB DOWN TO ABOVE-GRADE 2-1/2" C FOR INSTALLATION OF FEEDER/CONDUIT FROM ATS INSTALLED ON SEPARATE CONTRACT. EC TO CONNECT FEEDER TO PANEL ONCE INSTALLED.
 - ③ 3/5 CU, 1#6GND CU IN 1-1/4" C

-PROVIDED APPROVAL FROM LOCAL AHJ AND UTILITY, ALUMINUM CONDUCTOR MAY BE USED FOR FEEDERS AND SERVICE-ENTRANCE CABLING. ALUMINUM CONDUCTOR MUST HAVE THE SAME OR GREATER AMPACITY OF THE SPECIFIED COPPER CONDUCTOR.

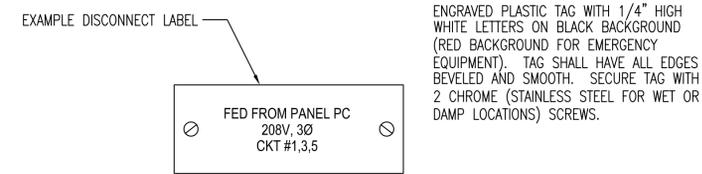
-PRIOR TO CONSTRUCTION, EC TO FIELD-COORDINATE WITH GC & TELE/DATA UTILITY THE REQUIRED CONDUITS & POINTS-OF-TERMINATION FOR TELE/DATA SERVICE. FOR BID, INCLUDE TWO (2) 2" C'S (W/ PULLSTRING) TO ROW. PROVIDE MIN. REFER TO "GROUNDING SYSTEM RISER" FOR REQUIRED GROUNDING AT 'CBB'.



1 POWER RISER DIAGRAM
E-0.3 SCALE: N.T.S.



4 TYPICAL PANELBOARD LABELING DETAIL
E-0.3 SCALE: N.T.S.



5 TYPICAL PANELBOARD LABELING DETAIL
E-0.3 SCALE: N.T.S.

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ADDENDUM 1 - 01-20-26

100% COMPLETE

REVIEW DOCUMENTS

DONOFRO ARCHITECTS

NOT FOR CONSTRUCTION

OCTOBER 31, 2025

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SHEET POWER RISER DIAGRAM, PANEL SCHEDULES, TITLE: AND DETAILS

FOR THE: **THE CITY OF COTTONDALE**

FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13
DATE: OCT. 31, 2025
DRAWN BY: CRD
CHECKED BY: ALD

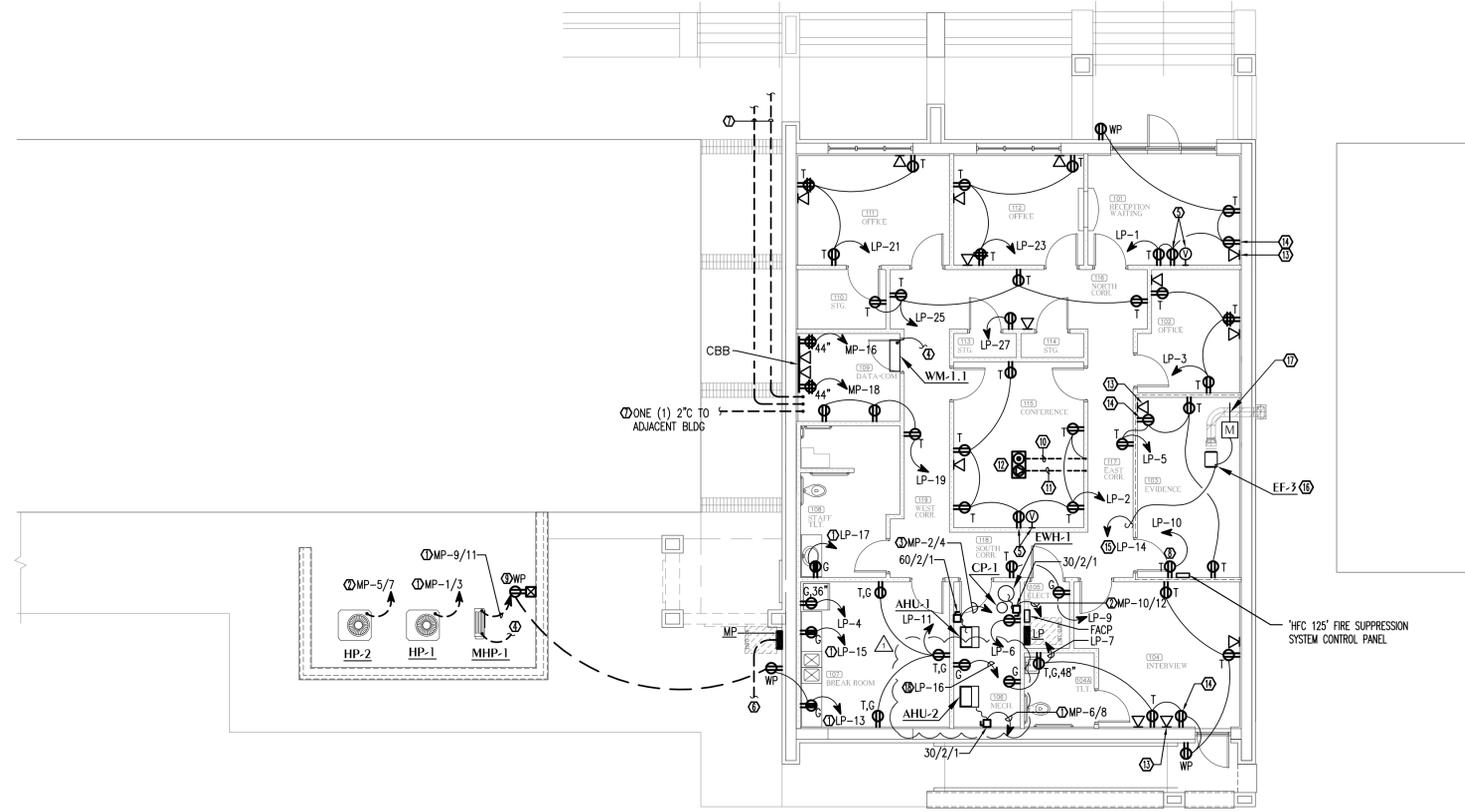
SHEET No. **E-0.3**

GENERAL NOTE(S)

- EC TO FURNISH AND INSTALL ALL JUNCTION BOXES AND CONCEALED CONDUIT RUNS REQUIRED FOR COMMUNICATIONS AND SECURITY SYSTEMS AS WELL AS ALL WIRING AND ELECTRICAL CONNECTIONS FOR ANY COMMUNICATIONS AND SECURITY SYSTEMS THAT REQUIRE 120 VOLT POWER. PRIOR TO ROUGH-IN, EC TO COORDINATE WITH OWNER AND GC FOR EXACT LOCATION, HEIGHT, AND SIZES REQUIRED FOR ALL JUNCTION BOXES AND CONDUIT.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE WITH GC THE ROUTING OF RACEWAYS TO REDUCE THE VISIBILITY FROM BELOW. CONCEAL ABOVE STRUCTURE AND/OR BELOW WHERE POSSIBLE TO REDUCE VISIBILITY AND IMPROVE AESTHETIC APPEAL. CIRCUITRY BELOW IS DIAGRAMMATIC TO CONCEAL RACEWAYS, EC MAY RE-ROUTE CIRCUITS AS REQUIRED.
- EC IS RESPONSIBLE FOR JUNCTION BOXES AND CONDUIT WITH PULLSTRING TO ACCESSIBLE LOCATION ABOVE CEILING ONLY FOR DATA DROP LOCATIONS. CAT5 CABLING TO BE INSTALLED BY OWNER'S COMMUNICATIONS VENDOR. PRIOR TO ALL ROUGH-INS, COORDINATE WITH IT REPRESENTATIVE/EQUIPMENT SUPPLIER FOR ALL REQUIRED LOCATIONS AND HEIGHTS FOR DATA DROP JUNCTION BOXES.

KEYNOTES

- CIRCUIT TO BE 2#10, 1#10GND IN 3/4" C.
- CIRCUIT TO BE 2#12, 1#12GND IN 3/4" C.
- CIRCUIT TO BE 2#8, 1#10GND IN 3/4" C.
- INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT. EC TO INSTALL 2#12, 1#12GND IN 3/4" C BETWEEN INDOOR AND OUTDOOR UNIT.
- PRIOR TO ROUGH-IN, EC TO COORDINATE WITH GC/OWNER FOR EXACT HEIGHT AND LOCATION OF RECEPTACLE AND DATA DROP FOR WALL-MOUNTED TV.
- EC TO STUB OUT BELOW PANEL "MP" ONE(1) 2-1/2" C FOR MAIN BUILDING FEEDER, TO BE INSTALLED UNDER SEPARATE CONTRACT. EC TO MAKE FINAL CONNECTION ONCE UNDERGROUND CONDUCTORS ARE IN PLACE. SEE GENERATOR CONTRACT CONSTRUCTION DOCUMENTS FOR EXACT CONDUIT ROUTING.
- EC TO FURNISH/INSTALL TWO(2) 2" C BFG FROM STUB UP IN DATA COM 109 TO ROW FOR TELE/DATA CABLING. COORDINATE WITH GC/UTILITY FOR EXACT ROUTING/NUMBER & SIZE OF CONDUITS/PTS-OF-TERMINATION. IN ADDITION, FIELD-COORDINATE WITH GC/OWNER IF ADD'L CONDUIT(S) REQUIRED BETWEEN ADJACENT BUILDING PRIOR TO CONSTRUCTION. INCLUDE IN BID THE INSTALLATION ONE (1) 2" C (W/ PULLSTRING) TO ADJACENT WEST BUILDING.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE THE EXACT LOCATION/HEIGHT OF DEVICE REQUIRED FOR "HFC 125" FIRE SUPPRESSION CONTROL PANEL.
- TO COMPLY WITH NEC, INSTALL GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE FOR SERVICING/MAINTENANCE OF HVAC EQUIPMENT.
- EC TO FURNISH/INSTALL 2#12, 1#12 GND IN 1" C B.F.F. ROUTE HOMERUN UP THROUGH WALL AND CONTINUE TO DEVICE INDICATED.
- EC TO FURNISH/INSTALL 1" C B.F.F., WITH PULLSTRING, FROM FLOOR BOX, UP THROUGH WALL TO ACCESSIBLE LOCATION ABOVE CEILING.
- EC TO FURNISH/INSTALL TWO-GANG FLOOR BOX WITH ONE(1) DUPLEX RECEPTACLE AND ONE (1) DATA RECEPTACLE. FLOOR BOX TO BE FURNISHED WITH A BRASS COVER-PLATE AND ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE WITH GC/OWNER FOR EXACT MOUNTING HEIGHT/LOCATION OF DATA DROP FOR SECURITY CAMERA.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE WITH GC/OWNER FOR EXACT MOUNTING HEIGHT/LOCATION OF RECEPTACLE FOR SECURITY CAMERA.
- PRIOR TO ROUGH-IN, EC TO FIELD-COORDINATE WITH GC/OWNER FOR EXACT MOUNTING HEIGHT/LOCATION OF EMERGENCY EXHAUST FAN SWITCH. PER MECHANICAL DESIGN, SWITCH TO BE LABELED, BY OTHERS, AS "EMERGENCY EXHAUST FAN".
- PER MECHANICAL DESIGN, EXHAUST FAN TO BE FURNISHED BY OTHERS WITH INTEGRAL DISCONNECT AND BE CONTROLLED VIA WALL-MOUNTED, MOTOR-RATED TOGGLE SWITCH ON EXTERIOR WALL OF EVIDENCE ROOM TO VENT ROOM IN THE EVENT OF CHEMICAL FIRE SUPPRESSION DISCHARGE. EC TO INTERLOCK FAN WITH 120V DAMPER AS SHOWN.
- 120V POWER OPEN/SPRING CLOSE MOTORIZED DAMPER, FURNISHED AND INSTALLED BY OTHERS. EC TO CONNECT TO EF-3 CIRCUIT SO THAT DAMPER WILL OPEN WHEN THE FAN IS SWITCHED ON.
- EC TO COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION LOCATION OF GFCI RECEPTACLE FOR CONDENSATE PUMPS FOR AHU-1 AND AHU-2. PER MECHANICAL DESIGN, CONDENSATE PUMPS ARE TO BE FURNISHED BY OTHERS WITH FACTORY ATTACHED CORD WITH NO PLUG. EC TO FURNISH AND INSTALL PLUG END TO ALLOW RECEPTACLE USE.



ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

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SHEET ELECTRICAL POWER PLAN
TITLE:
NEW POLICE STATION
FOR THE:
THE CITY OF COTTONDALE
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER:
M-2024-13
DATE:
OCT. 31, 2025
DRAWN BY:
CRD
CHECKED BY:
ALD

SHEET No.
E-1.1

△ ADDENDUM 1 - 01-20-26
100% COMPLETE
REVIEW DOCUMENTS
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NOT FOR CONSTRUCTION
OCTOBER 31, 2025

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LEGEND

	EQUIPMENT TAG	SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
	DETAIL TAG ("1" INDICATES IDENTIFICATION NUMBER; "M3" INDICATES THE SHEET NUMBER DRAWN ON)	(2)SR-1 100	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES
	SHEET NOTE	TYP	TYPICAL
	SUPPLY DUCT SECTION POSITIVE PRESSURE	TEMP	TEMPERATURE
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE	SA	SUPPLY AIR
	RECTANGULAR DUCT SIZE ("A" INDICATES SIDE SHOWN; "B" INDICATES SIDE NOT SHOWN)	RA	RETURN AIR
	INDICATES RISE IN ELEVATION OF DUCT.	EA	EXHAUST AIR
	ROUND DUCT SIZE	MA	MIXED AIR
	EXTERNALLY INSULATED DUCTWORK OR DUCT BOARD	OA	OUTDOOR AIR
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK	TA	TRANSFER AIR
	DUCT ELBOW WITH TURNING VANES	EF	EXHAUST FAN
	RADIUSED DUCT ELBOW	CD	CEILING DIFFUSER
	FLEXIBLE DUCT CONNECTION	RC	RETURN GRILLE
	MANUAL VOLUME BALANCING DAMPER	EG	EXHAUST GRILLE
	MOTORIZED DAMPER	ER	EXHAUST REGISTER
	FIRE DAMPER WITH ACCESS DOORS	CREF	CEILING ROOF EXHAUST FAN
	SMOKE DAMPER WITH ACCESS DOORS	AHU	INDOOR AIR HANDLING UNIT
	BACKDRAFT DAMPER	BF	INLINE BOOSTER FAN
	TEE WITH TURNING VANES	Ⓛ	THERMOSTAT, "1" INDICATES UNIT CONTROLLED
	TRANSITION	Ⓢ	DUCT MOUNTED SMOKE DETECTOR
	FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE	FD	FLOOR DRAIN
	BRANCH DUCT TAKEOFF WITH MVD	UC	UNDERCUT DOOR 1/2"
		DG	DOOR GRILLE. REFER TO DOOR SCHEDULE
		AFF	ABOVE FINISHED FLOOR
		FD	HORIZONTAL FIRE DAMPER
		XFR	TRANSFER AIR
		ESP	EXTERNAL STATIC PRESSURE
		TAB	TESTING, ADJUSTING AND BALANCING
		NOM	NOMINAL
		VFD	VARIABLE FREQUENCY DRIVE
		(F)	FUTURE
		EUH	ELECTRIC UNIT HEATER
		HP	HEAT PUMP
		MHP	MINI- HEAT PUMP
		WM	WALL MOUNT MINI AIR HANDLER
		S	WALL SWITCH

GENERAL NOTES

- ALL DUCT DIMENSIONS ARE NET INSIDE.
- VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
- FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL NEW DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
- PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
- ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
- ALL AHU AND OAU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
- PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING. COORDINATE ALL SIZES AND LOCATIONS WITH ARCHITECT DURING SUBMITTALS. PROVIDE PLANS IF REQUIRED BY ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF ALL EQUIPMENT AND UTILITIES.
- CONTRACTOR SHALL SUBMIT COORDINATED DUCTWORK SHOP DRAWINGS INDICATING COORDINATION WITH ELECTRICAL, PLUMBING, AND FIRE PROTECTION, PRIOR TO BEGINNING WORK. SHOP DRAWINGS SHALL INCLUDE LOCATIONS OF THERMOSTATS, ACCESS PANELS, AIR DEVICES, DUCTWORK, ETC.
- ALL WORK SHALL COMPLY WITH EIGHTH EDITION OF FLORIDA BUILDING CODE (2023).

DUCTWORK NOTES

- ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M ACOUSTICAL FLEX OR ENGINEER APPROVED EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
- SEAL ALL DUCT PENETRATIONS OF WALLS AND FLOORS AIRTIGHT, REGARDLESS OF WHETHER WALLS OR FLOORS ARE FIRE RATED OR NOT.
- ALL SUPPLY AIR DUCTWORK FROM AHU'S (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED SHEET METAL. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A, SHEET METAL.
- WHEN ROUTING DUCTWORK OVER LIGHTS, PROVIDE A MINIMUM 6" CLEARANCE BETWEEN DUCT AND LIGHTS.
- PROVIDE DUCT ACCESS DOORS AT ALL CONTROL DAMPERS, SMOKE DETECTORS, FIRE DAMPERS, AND SMOKE DAMPERS.
- PROVIDE REMOVABLE DUCT SECTIONS IN DUCTWORK CONTAINING FIRE DAMPERS IF FULL 12X12 ACCESS DOOR CAN NOT BE PROVIDED.

SEQUENCE OF OPERATION

AHU/HP

GENERAL: PROVIDE PROGRAMMABLE THERMOSTAT FOR EACH UNIT. THERMOSTAT SHALL BE CAPABLE OF PERFORMING THE SEQUENCE OUTLINED BELOW. THERMOSTAT SHALL ACCEPT AN EXTERNAL OCCUPIED SCHEDULE FROM THE ELECTRONIC MECHANICAL EQUIPMENT TIME CLOCK.

OCCUPIED MODE: THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE HP SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE ELECTRIC HEAT SHALL OPERATE A 2ND STAGE OF HEAT ONLY WHEN OUTDOOR TEMPERATURE IS BELOW 40°F. THE SETPOINT FOR COOLING SHALL BE 75°F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 70°F ADJUSTABLE.

UNOCCUPIED MODE: THE INDOOR FAN AND HP SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 85°F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 60°F ADJUSTABLE.

OVERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE FOR 1 HOUR.

EVIDENCE ROOM

LOW LEAKAGE MOTORIZED DAMPERS SHALL BE INSTALLED IN SUPPLY AND RETURN DUCT SERVING EVIDENCE ROOM. THESE SHALL BE OPEN DURING NORMAL OPERATION AND SHALL BE INTERLOCKED WITH FIRE SUPPRESSION CONTROL PANEL TO CLOSE DURING CLEAN AGENT DISCHARGE.

LOW LEAKAGE MOTORIZED DAMPER SHALL BE INSTALLED IN EXHAUST DUCT OF EF-3 AND SHALL REMAIN CLOSED DURING NORMAL OPERATION. SWITCH OUTSIDE EVIDENCE ROOM SHALL OPEN THE DAMPER AND TURN ON EF-3.

AIR DEVICE SCHEDULE

MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	90	9X9	6Ø	TDC
CD-2 CFM	245	12X12	8Ø	TDC
CD-3 CFM	350	12X12	10Ø	TDC
RC, EG, SG, TC, RR, ER				
XX-1 CFM	450	12X12	12X12	350FL
XX-2 CFM	1705	22X22	22X22	350FL
XX-3 CFM	220	8X8	8X8	350FL
XX-4 CFM	500	12X8	12X8	350FL

- MAX NC=20
- PROVIDE 2X2 LAY-IN PANEL FOR AIR DEVICES IN LAY-IN CEILINGS
- PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
- PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS.

VENTILATION SCHEDULE

SPACE TYPE	VENTILATION CFM/S.F.	VENTILATION CFM/PERSON	EXHAUST CFM
LOBBY	0.06	5.0	-
CORRIDOR/VESTIBULE	0.06	0	-
OFFICE	0.06	5.0	-
STORAGE	0.06	5.0	-
RESTROOM - INTERMITTENT	0	0	70/FIXTURE

NOTES:

VENTILATION AIR HAS BEEN CALCULATED IN COMPLIANCE WITH ASHRAE STANDARD 62.1-2019 INDOOR AIR QUALITY METHOD. THE INDOOR AIR QUALITY METHOD IS UTILIZED AS A MEANS OF REDUCTION IN OUTDOOR AIR AND IS SUBMITTED FOR APPROVAL AS AN ALTERNATE DESIGN IN ACCORDANCE WITH FBC 104.11. BIPOLAR IONIZATION IS UTILIZED TO CLEAN INDOOR AIR AND MAINTAIN ACCEPTABLE INDOOR AIR QUALITY WITH A REDUCTION IN OUTDOOR AIRFLOW.

LOUVER SCHEDULE

MARK	AIRFLOW CFM (MAX)	LOUVER SIZE (WxH) INCHES	FREE AREA FT ² (MIN)	RUSKIN MODEL	NOTES
LVR-1 CFM	215	18x12	0.46	EME3625MD + XP500	1,2,3,4,5

NOTES:

- FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- PROVIDE LOUVER WITH FLORIDA PRODUCT APPROVAL, LISTED FOR COMPLIANCE WITH AMCA 540 AND AMCA 550.
- PROVIDE LOUVER IN ACCORDANCE WITH ICC 500.
- PROVIDE EME3625MD LOUVER IN FRONT OF XP500 LOUVER IN COMMON 10 GAUGE SLEEVE.
- REFER TO STRUCTURAL DRAWINGS FOR INSTALLATION DETAILS.

SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT AHU/HP	BASIS OF DESIGN	MODEL HP/AHU	SA (CFM)	OA(CFM)	ESP (IN.H2O)	FAN (HP)	COOLING				HEATING				SUPPL. HEAT	AHU ELECTRICAL				HP ELECTRICAL				NOTES
							MAT° (DB/WB)	OAT° (DB/WB)	TOTAL (BTUH)	SEER2	MAT° (DB)	OAT° (DB)	TOTAL (BTUH)	HSPF2		VOLTS/PHASE	MCA	MOP	VOLTS/PHASE	MCA	MOP			
1	TRANE	5TWR4030A1/5TEM6D04	920	115	0.5	1/3	75.0/64.0	95/77	23000	18400	14.3	64.0	25	19000	7.5	240/1	45	45	240/1	16	25	1,2,3,4,5,6,7,8,9,10,11,12		
2	TRANE	5TWR4024A1/5TEM6B02	690	70	0.4	1/3	74.4/64.2	95/77	16400	12800	14.3	65.2	25	10400	7.7	240/1	29	30	240/1	13	20	1,2,3,4,5,6,7,8,9,10,11,12		

- PROVIDE 2" 30% FILTERS AND FILTER HOUSING SHOWN IN DETAILS.
- EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.
- ESP DOES NOT INCLUDE FILTER, CASING, ETC.
- PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
- PROVIDE THERMAL EXPANSION VALVES.
- DIRECT DRIVE AHU FAN.
- COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.
- PROVIDE UNIT MOUNTED CIRCUIT BREAKER FOR INDOOR AIR HANDLERS.
- PROVIDE BASIS OF DESIGN OR EQUAL BY LENNOX OR CARRIER.
- PROVIDE EPA APPROVED REFRIGERANT.
- PROVIDE REFRIGERANT MONITORING SYSTEM.
- PROVIDE BLUE DIAMOND MAXIBLUE V2 CONDENSATE PUMP OR APPROVED EQUIVALENT.



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Project Number: 2025-018
Checked By: KAJ
Drawn By: JFG

△ ADDENDUM 1 - 01-20-26

100% COMPLETE
REVIEW DOCUMENTS
DONOFRO ARCHITECTS
NOT FOR CONSTRUCTION
OCTOBER 31, 2025

SHEET HVAC LEGEND, SCHEDULES, AND NOTES

NEW POLICE STATION
FOR THE
THE CITY OF COTTONDALE
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER:
M-2024-13

DATE:
OCT. 31, 2025

DRAWN BY:
JFG

CHECKED BY:
KAJ

SHEET No.

M-0.1

DONOFRO ARCHITECTS

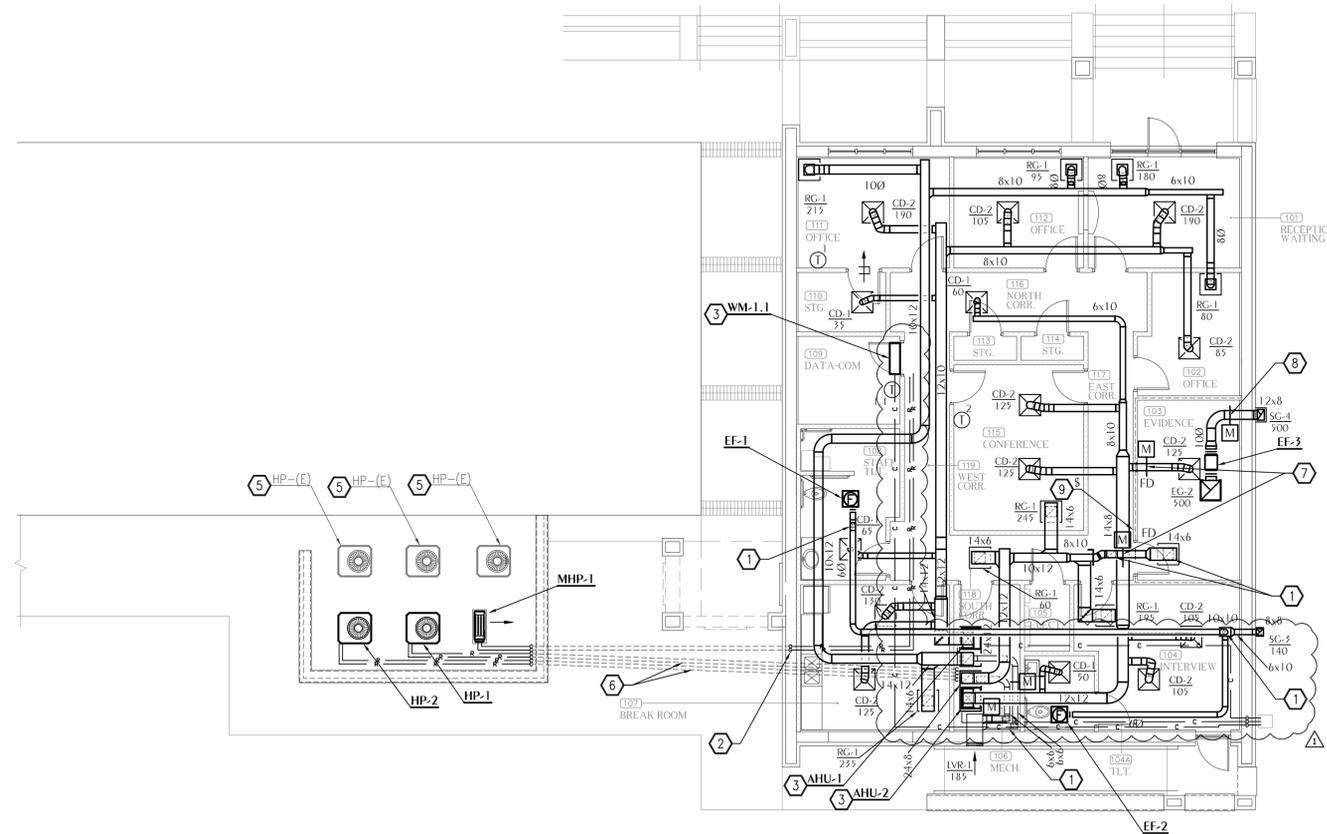
2910 CALEDONIA ST.
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SHEET NOTES

- 1 RISE INTO ATTIC SPACE OCCUPIED BY ROOF TRUSSES. COORDINATE WITH STRUCTURE.
- 2 ROUTE REFRIGERANT PIPING IN UNDERGROUND PVC CHASE PER DETAIL 2/M-2.1. RISE UP IN WALL CAVITY CONTINUE ABOVE CEILING TO INDOOR UNIT.
- 3 ROUTE CONDENSATE TO SPLASH BLOCK.
- 4 ROUTE CONDENSATE TO FLOOR DRAIN CONNECTED TO STORMWATER. NOT USED.
- 5 EXISTING EQUIPMENT RELOCATED AND SERVICED ON SEPARATE CONTRACT THROUGH CITY MAINTENANCE.
- 6 ROUTE REFRIGERANT PIPING UNDERGROUND IN PVC CHASE PER DETAIL 1/M-2.1. RISE UP IN MECHANICAL ROOM AND CONTINUE TO INDOOR UNIT.
- 7 PROVIDE LOW LEAKAGE DAMPER INTERLOCKED WITH CLEAN AGENT FIRE SUPPRESSION SYSTEM. SUPPLY AND RETURN DAMPER SHALL BE OPEN DURING NORMAL OPERATION AND SHALL BE SHUT UPON CLEAN AGENT FIRE SUPPRESSION SYSTEM ACTIVATION.
- 8 PROVIDE LOW LEAKAGE 120 VOLT DAMPER. DAMPER SHALL BE INTERLOCKED WITH FAN AND SHALL OPEN WHEN FAN IS IN OPERATION.
- 9 SWITCH SHALL BE VISIBLY LABELED "EMERGENCY EXHAUST FAN".



HVAC NEW WORK FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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SHEET TITLE: HVAC NEW WORK FLOOR PLAN
 FOR THE: NEW POLICE STATION
 THE CITY OF COTTONDALE
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13
 DATE: OCT. 31, 2025
 DRAWN BY: JFG
 CHECKED BY: KAJ

SHEET No.
M-1.0

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LEGEND

	S OR W	SOIL OR WASTE PIPING
	V	VENT PIPING
	CW	COLD WATER SUPPLY PIPING
	HW	HOT WATER SUPPLY PIPING
	HWR	HOT WATER RETURN PIPING
	A	COMPRESSED AIR
	G	GAS
	CV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	COIG	CLEANOUT TO GRADE
	COAC	CLEANOUT ABOVE CEILING
	VTR	VENT THRU ROOF
	1	SHEET NOTE
		POINT OF CONNECTION TO EXISTING
	SH	SHOWER
	MR	MOP RECEPTOR
	UR	URINAL
	WC	WATER CLOSET
	UB	WALL MOUNTED UTILITY BOX
	IWH	INSTANTANEOUS ELECTRIC WATER HEATER
	EWC	ELECTRIC WATER COOLER
	L	LAVATORY
	WH	WALL HYDRANT
	HB	HOSE BIBB
	KW	KILOWATT
	AD	AIR DROP
	TP	AUTOMATIC TRAP PRIMER
	WHA	TYPE "A" WATER HAMMER ARRESTER
	WHB	TYPE "B" WATER HAMMER ARRESTER
	WHC	TYPE "C" WATER HAMMER ARRESTER
	HR	HOSE REEL
	A	AIR
	G	GAS
	AC	AIR COMPRESSOR
	TD	TRENCH DRAIN
	DT	TROUGH DRAIN
	COTS	CLEANOUT TO SIDEWALK
	OI	OIL INTERCEPTOR

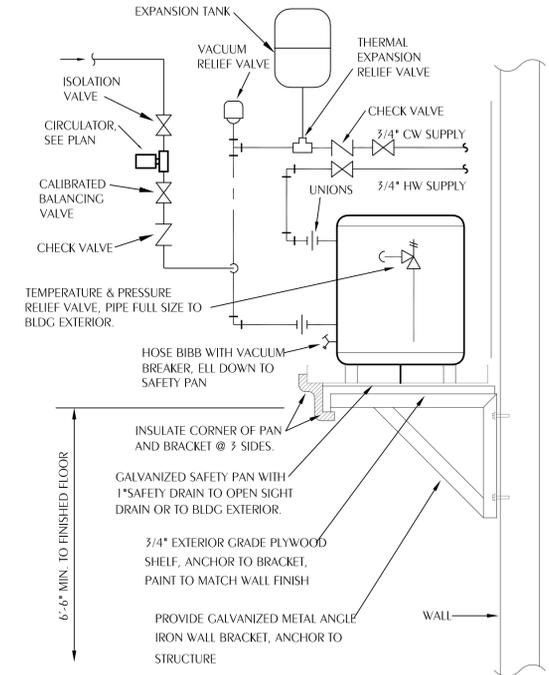
PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	PIPE SIZES-INCHES		
		CW	HW	W
WC-1	WATER CLOSET	1	-	4
L-1	LAVATORY	3/8	3/8	1-1/4
L-2	LAVATORY	3/8	3/8	1-1/4
SK-1	DUAL COMPARTMENT SINK	3/8	3/8	1-1/2
MV-1	WATER MIXING VALVE	1/2	1/2	-
SH-1	SHOWER	1/2	1/2	2
EW-1	ELECTRIC WATER HEATER	1/2	1/2	-
CP-1	CIRCULATOR PUMP(INLINE)	-	3/4 FLANGE	-
TCV	TEMPERATURE CONTROL VALVE	-	1/2	-
UB-1	RECESSED UTILITY WALL BOX (ICE MAKER HOOK-UP)	3/8	-	-
UB-2	CONDENSATE DRAIN BOX	-	-	2
FD-1	FLOOR DRAIN	-	-	3
FD-2	FLOOR DRAIN	-	-	3
TP-1	TRAP PRIMER	-	-	-
HB	HOSE BIBB	3/4	-	-

1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
2. SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.

PLUMBING GENERAL NOTES

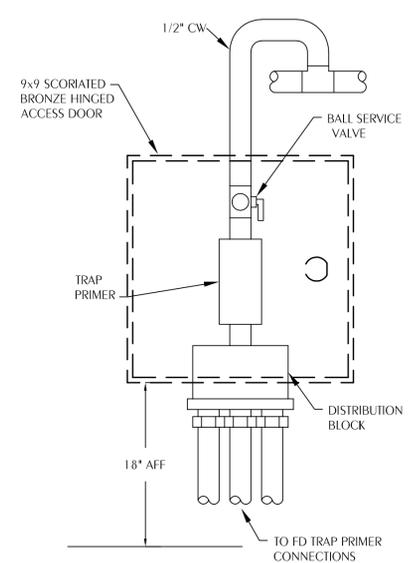
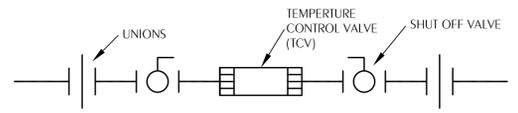
1. COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
2. PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.
3. FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
4. ALL PIPING PASSING THROUGH WALLS SHALL HAVE A SLEEVE PER SPECIFICATIONS.
5. ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS.
6. ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
7. SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT.
8. COORDINATE LOCATION OF ALL FLOOR DRAINS SERVING HVAC EQUIPMENT WITH HVAC EQUIPMENT SHOP DRAWINGS.
9. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
10. PRIOR TO SUBSTANTIAL COMPLETION OF NEW WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
11. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
12. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
13. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
14. ALL COMPONENTS OF PLUMBING SYSTEMS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE (8TH EDITION).
15. CONTRACTOR SHALL DEVELOP COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.



1 WALL MOUNT EWH
P-0.1 SCALE: NONE

2 THERMOSTATIC TEMPERATURE CONTROL VALVE DETAIL

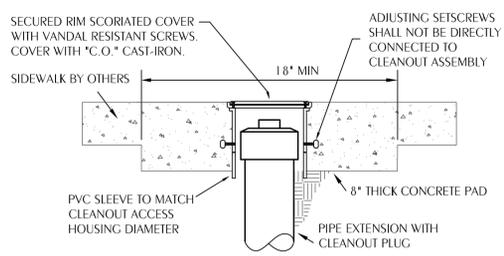
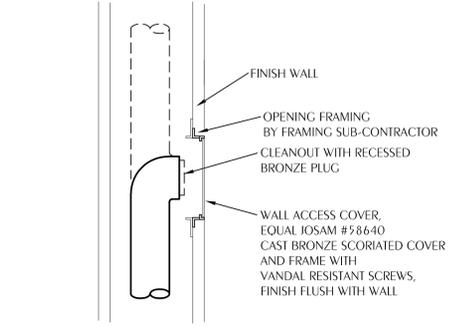
P-0.1 SCALE: NONE



4 TRAP PRIMER DETAIL
P-0.1 SCALE: NONE

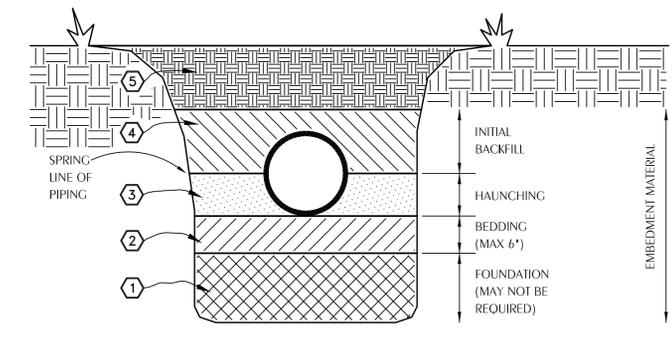
5 CLEANOUT TO WALL

P-0.1 SCALE: NONE



6 CLEANOUT TO SIDEWALK
P-0.1 SCALE: NONE

- 1 A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
 - 2 BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
 - 3 HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
 - 4 INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.
 - 5 FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30" OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL-LOADED.
- NOTE:** ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING, EXCAVATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH 2023 FLORIDA PLUMBING CODE.



3 EXCAVATION AND BACKFILL DETAIL
P-0.1 SCALE: NONE

- EMBEDMENT MATERIALS**
- CLASS I: ANGULAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.
 - CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES GW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.
 - CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.
 - CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.
 - CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

ADDENDUM 1 - 01-20-26

100% COMPLETE

REVIEW DOCUMENTS

DONOFRO ARCHITECTS

NOT FOR CONSTRUCTION
OCTOBER 31, 2025

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SHEET PLUMBING LEGEND, SCHEDULE, TITLE, NOTES, AND DETAILS
NEW POLICE STATION
FOR THE
THE CITY OF COTTONDALE
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13
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SHEET No.
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PLUMBING SPECIFICATIONS

WC-1 WATER CLOSET, FLOOR-MOUNT (ADULT HANDICAP, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD, 17" HIGH FOR HANDICAPPED. EXPOSED CHROME PLATE FLUSH VALVE, WITH SCREWDRIIVER STOP, VACUUM BREAKER, QUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES. HOLD CENTERLINE FLUSH VALVE ASSEMBLY OFF FINISH WALL FOR GRAB BAR CLEARANCES, COORDINATE WITH ARCHITECTURAL DRAWINGS.

WATER CLOSET	ZURN Z5665BWL
VALVE	ZURN Z8000P4-HET
SEAT	ZURN Z5955S-EL-STS
CLOSET BOLT/WAX RING KIT	ZURN Z5972-COMB

L-1 LAVATORY, WALL-MOUNT (HANDICAP):

VITREOUS CHINA 20" X 18", COLOR "WHITE", 8" ON CENTERS, FRONT OVERFLOW, FOR CONCEALED ARM SUPPORT. FURNISH FLOOR-MOUNTED SINGLE CARRIER WITH CONCEALED ARMS, LEVELING AND SECURING SCREWS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325. PROVIDE CHROME PLATED ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY AND LOOSE KEY OPERATOR, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS WATER FAUCET WITH WRIST BLADE HANDLES, WITH 0.5 GPM AERATOR. LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH FULLY MOLDED INSULATION KIT, AND LIGHT GRAY COLOR WITH 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE VALVE ASSEMBLY. FASTENERS SHALL BE NYLON-TYPE SUPPLIED WITH KIT. LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FRONT APRON. TOE CLEARANCE SHALL BE A MINIMUM HEIGHT OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

LAVATORY	ZURN Z5348
FAUCET	ZURN Z-81104-XL-3M
SUPPLY W/STOP	ZURN Z8800RLK-PC
P-TRAP	ZURN Z8700-PC
STRAINER/TAILPIECE	ZURN Z8746
INSULATION KIT	ZURN Z8946-3-NT
CARRIER	ZURN Z-1231
BASE ANCHORAGE	B-LINE ANCHORS AWA-50-375
MIXING VALVE	MV-1

L-2 LAVATORY, COUNTERTOP (HANDICAP):

VITREOUS CHINA 20" X 17", OVAL, COLOR "WHITE", CENTER HOLE SETTING, FRONT OVERFLOW. PROVIDE CHROME PLATED 1/2" IPS X 3/8" O.D. LOOSE KEY OPERATED, ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE COPPER RISERS, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINGLE LEVER FAUCET WITH COVER PLATE, NON-AERATED LAMINAR SPRAY, 0.5 GPM. LAVATORY P-TRAP AND ANGLE STOP VALVE ASSEMBLY AND RISERS SHALL BE INSULATED WITH A WHITE FULLY MOLDED EVA FOAM TUBULAR COVER. COVERS SHALL JOIN USING SECURE FIT HOOK AND LOOP CONNECTION. PROVIDE MIXING VALVE.

LAVATORY	ZURN Z5111
FAUCET	ZURN Z-81000-XL-3M
SUPPLY W/STOP	ZURN Z8802CRUK-PC
P-TRAP	ZURN Z8700-PC
STRAINER/TAILPIECE	ZURN Z8746-PC
INSULATION KIT	DEARBORN ADA100
MIXING VALVE	MV-1

SK-1 DOUBLE COMPARTMENT STAINLESS STEEL SINK:

33" X 22" X 8-1/8" DEEP (BOWL IS 13-1/2" X 16 7/8" X 3/4"), TYPE 304, 18 GAUGE, 8" CENTERS, SELF RIMMING SINGLE COMPARTMENT, (18-8) NICKEL BEARING STAINLESS STEEL. BACK LEDGE SINK WITH SATIN FINISH AND SOUND DEADENING MATERIALS ON SIDE AND BOTTOM OF SINK. PROVIDE POLISHED CHROME PLATED TOP MOUNT SWING COOSENECK SPOUT WITH STRAIGHT LEVER HANDLES, WATER SAVING AERATOR, HOSE AND SPRAY. STRAINER WITH REMOVABLE CRUMB CLIP AND STOPPER, 1-1/2 TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. COORDINATE WITH CABINET SHOP DRAWINGS. BASE CABINET MUST BE A TRUE MINIMUM 24" DEEP BACK TO FRONT IN ORDER FOR SINK TO DROP INTO COUNTERTOP OPENING. SINK DRILLINGS SHALL ACCOMMODATE FITTING INSTALLATION ONLY, NO OTHER CAPPED OPENINGS WILL BE ALLOWED. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS. PROVIDE UNDER SINK DISPOSAL WITH 1/3 HP MOTOR.

SINK	ELKAY L2-3222
FAUCET	ZURN Z-871 C1-HS
STRAINER	ELKAY LK-355
WASTE	ELKAY LK-355
SUPPLIES	ZURN Z-8802-LK
P-TRAP	ZURN Z-8702-PC
MIXING VALVE	MV-1
DISPOSAL	GE GFC320V

SH-1 SHOWER (HANDICAP):

SINGLE HANDLE PRESSURE-BALANCING MIXING VALVE. CERAMIC CONTROL CARTRIDGE WITH STAINLESS STEEL BALANCING PISTON. MUST HOLD SHOWER TEMPERATURE STEADY WITH PRESSURE FLUCTUATIONS UP TO 85%. PACKING WITH BRASS. ADJUSTABLE LIMIT STOP SCREW TO PROHIBIT VALVE HANDLE FROM BEING TURNED TO EXCESSIVE HOT DISCHARGE TEMPERATURES. ALL TRIM TO BE COPPER NICKEL CHROME PLATED. SERVICE STOPS TO BE BRASS AND CAST INTEGRAL WITH VALVE BODY. TWO WAY CHROME DIVERTER VALVE. BRASS SHOWER HEAD WITH ARM AND FLANGE. WALL/HAND SHOWER WITH 60" FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTING, WITH LEVER ADJUSTMENT. 1.6 GPM SHOWER HEAD.

SHOWER	ZURN Z-7301-SS-MT-DV-2P-1HW16
DRAIN	ZURN ZN-415 2" WITH 5" B

MV-1 WATER MIXING VALVE (THERMOSTATIC MIXING):

UNDER SINK 3/8" COMPRESSION FITTING MIXING VALVE, BRASS BODY, LEAD FREE, LIMITS HOT WATER BETWEEN 80°F & 120°F, DUAL CHECK VALVES, 0.25GPM MIN. FLOW, 40 MESH STAINLESS STEEL STRAINER, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

EXPOSED MIXING VALVE	WATTS LFUSG-B
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UB-1 RECESSED UTILITY BOX (REFR. SPACE):

RECESSED METAL WALL BOX CONSTRUCTED AND SUITABLE FOR FIRE RATED PARTITIONS COMPLETE WITH FACTORY INSTALLED SHANK VALVE WITH 1/4" O.D. COPPER OUTLET TESTED AT 100 PSI. PROVIDE APPROXIMATELY 5' OF 1/4" O.D. SOFT COPPER TUBING WITH COMPRESSION FITTING IN TIGHT COIL. ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX	GUY GRAY BIM 875
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UB-2 RECESSED UTILITY WALL BOX:

RECESSED PVC WALL BOX CONSTRUCTED AND SUITABLE FOR FIRE RATED PARTITIONS WITH AN OPEN FACE PLATE. PROVIDE CONDENSATE DRAIN ADAPTER THAT PROVIDES A 1" AIR GAP. ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX	IPS MBF81200DB1
DRAIN ADAPTER	IPS MB1250AD

CP-1 CIRCULATOR PUMP (INLINE TYPE):

INFINITELY VARIABLE CIRCULATOR MADE OF COMPOSITE CASING, HOUSING, IMPELLER, CERAMIC SHAFT, AND CARBON BEARINGS. A 44 WATT ECM PERMANENT MAGNET MOTOR AND ELECTRICAL CHARACTERISTICS ARE 120V/1 PHASE, 60 HZ., WITH 1" CONNECTIONS, MAXIMUM OPERATING PRESSURE OF 150 PSI, UL STANDARD 778 AND NSF CERTIFIED. DIGITAL TIMER WITH CIRCULATOR PROGRAMMING. TEMPERATURE AQUASTAT, MAINTAINS WATER TEMPERATURE BETWEEN 99°F AND 119°F. CIRCUIT SETTER CALIBRATED BALANCE VALVE, LEAD-FREE BRASS, WITH 1/4" NPT TAPPED DRAIN PORT, MEMORY STOP FEATURE, SET AT 1 GPM. PROVIDE CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE SET AT 110°F.

CIRCULATOR	TACO 006E3
TIMER	TACO 265-3
AQUASTAT	TACO 563-2
CIRCUIT SETTER	XYLEM CB-1/2S LF

EW-H-1 ELECTRIC WATER HEATER:

ASHRAE STANDARD 90, GLASS LINED TANK SUITABLE FOR 150 PSI WORKING PRESSURE, 300-PSI TEST. FINISH OF DURABLE HIGH GLOSS BAKED ENAMEL. BLANKET GLASS FIBER INSULATION OVER ENTIRE TANK. CONTROL CIRCUIT TRANSFORMER AND MANUAL RESET HIGH TEMPERATURE LIMIT CONTROL. ASME PRESSURE AND TEMPERATURE RELIEF VALVE. WATER HEATER SHALL BE ACCEPTABLE FOR COMMERCIAL APPLICATION BY MANUFACTURER. PROVIDE 3 YEAR WARRANTY, SNAP ACTION AUTOMATIC IMMERSION MOUNTED THERMOSTATS, IMMERSION TYPE HEATING ELEMENTS AND MAGNESIUM ANODE ROD. PROVIDE UNIT MOUNTED DISCONNECT SWITCH. PROVIDE INLET AND OUTLET SHUT-OFF VALVES, VACUUM RELIEF VALVE ON INLET WATER SUPPLY. PROVIDE GALVANIZED STEEL DRIP PAN. PROVIDE PRE-CHARGED EXPANSION TANK, OUTER STEEL SHELL (FLEXIBLE DIAPHRAGM TYPE), ON COLD WATER INLET SIDE OF WATER HEATER FOR THERMAL EXPANSION CONTROL. TANK VOLUME IN GALLONS SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE WATER HEATER SIZE IN GALLONS. 10 GAL, 7 KW, 240V/1 PHASE.

WATER HEATER	A. O. SMITH DEL-10
VACUUM RELIEF	WATTS 36A
EXPANSION TANK	AMTROL "THERM-X-TROL"

TCV TEMPERATURE CONTROL VALVE:

CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE SET AT 110°F.

RECIRCULATION VALVE (TVC) CIRCUIT SOLVER CS-1/2-110

FD-1 FLOOR DRAIN:

DURA-COATED CAST IRON BODY, BOTTOM OUTLET AND TRAP PRIMER CONNECTION. TYPE B POLISHED NICKEL BRONZE STRAINER, MEMBRANE CLAMP & ADJUSTABLE COLLAR WITH SLOTS.

FLOOR DRAIN	ZURN Z-415B-P
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FD-2 FLOOR DRAIN (CONDENSATE):

DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE B POLISHED NICKEL BRONZE STRAINER WITH RANGED FLANGE.

FLOOR DRAIN	ZURN Z-415H
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TP-1 TRAP PRIMER:

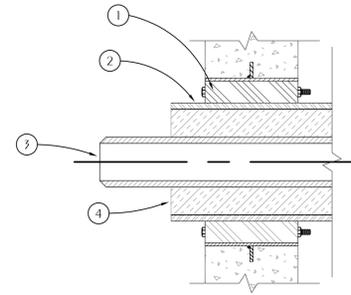
PROVIDE BRASS TRAP PRIMERS AND DISTRIBUTION UNITS TO SEAL FLOOR DRAINS INDICATED ON DRAWINGS. TRAP PRIMER VALVES SHALL BE AUTOMATIC, SELF CONTAINED TYPE WITH NO SPRINGS OR DIAPHRAGMS AND SHALL NOT REQUIRE ADJUSTMENT. INLET AND OUTLET SIZE IS 1/2". TRAP PRIMER VALVES SHALL BE THE TYPE THAT CAN BE INSTALLED ANYWHERE ON COLD WATER PIPING SIZE 1-1/2" OR LESS. DISTRIBUTION UNITS SHALL SUPPLY 1-4 FLOOR DRAINS. TRAP PRIMER VALVES SHALL COMPLY WITH ASSE 1018. PRECISION PLUMBING PRODUCTS (PPP).

TRAP PRIMER	PPP PR-500
DISTRIBUTION UNIT	PPP DU-U

HB RECESSED HOSE BIB:

ANTI-SIPHON VACUUM BREAKER, FLUSH MOUNTING STAINLESS STEEL WALL BOX WITH HINGED COVER, 3/4 INCH HOSE THREAD, BRONZE BODY AND INTER PARTS, WHEEL HANDLE, LOOSE KEY FAUCET OPERATED CONTROL VALVE, DUAL CHECK VALVE, SCREWDRIWER OPERATED STOP VALVE IN SUPPLY, NARROW INSTALLATION.

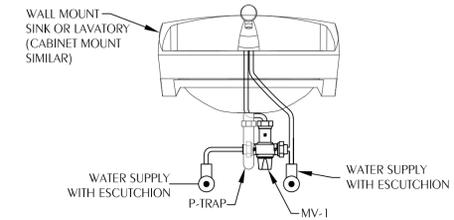
WALL FAUCET	ZURN Z1335
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- 1 WALL SEAL APPURTENANCES PER SPECIFICATIONS
- 2 PIPE SLEEVE PER SPECIFICATIONS
- 3 PIPING
- 4 INSULATION

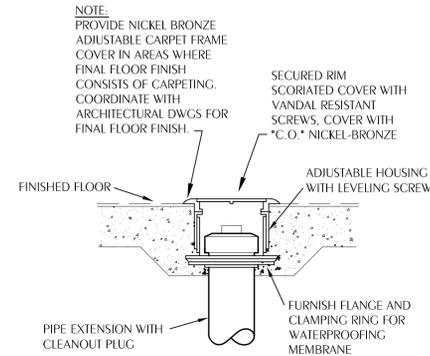
1 TYPICAL PIPE PENETRATION OF WALL

P-0.2 SCALE: NONE



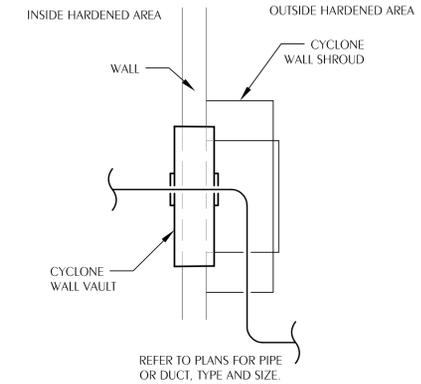
2 LAV/SINK MIXING VALVE DETAIL

P-0.2 SCALE: NONE
NOTE: MIXING VALVE WILL BE TYPICAL FOR SK-1, L-1, L-2



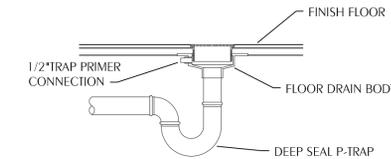
3 CLEANOUT TO FLOOR

P-0.2 SCALE: NONE



4 HARDENED WALL PENETRATION DETAIL

P-0.2 SCALE: NONE



5 FLOOR DRAIN WITH TRAP PRIMER DETAIL

P-0.2 SCALE: NONE

ADDENDUM 1 - 01-20-26

100% COMPLETE
REVIEW DOCUMENTS
DONOFRO ARCHITECTS
NOT FOR CONSTRUCTION
OCTOBER 31, 2025



Florida CA Number: 27825
Keith A. Johnson, PE
Florida License Number: 88457
800.530.3447
Project Number: 2025-018
4452 Clinton Street Marianna, Florida 32446
2449 Moores Mill Road Auburn, AL 36830

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MARIANNA, FL 32446
OFFICE: (850) 482-5261

SHEET PLUMBING SPECIFICATIONS AND DETAILS
NEW POLICE STATION
FOR THE
THE CITY OF COTTONDALE
FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER: M-2024-13
DATE: OCT. 31, 2025
DRAWN BY: JDD
CHECKED BY: KAJ

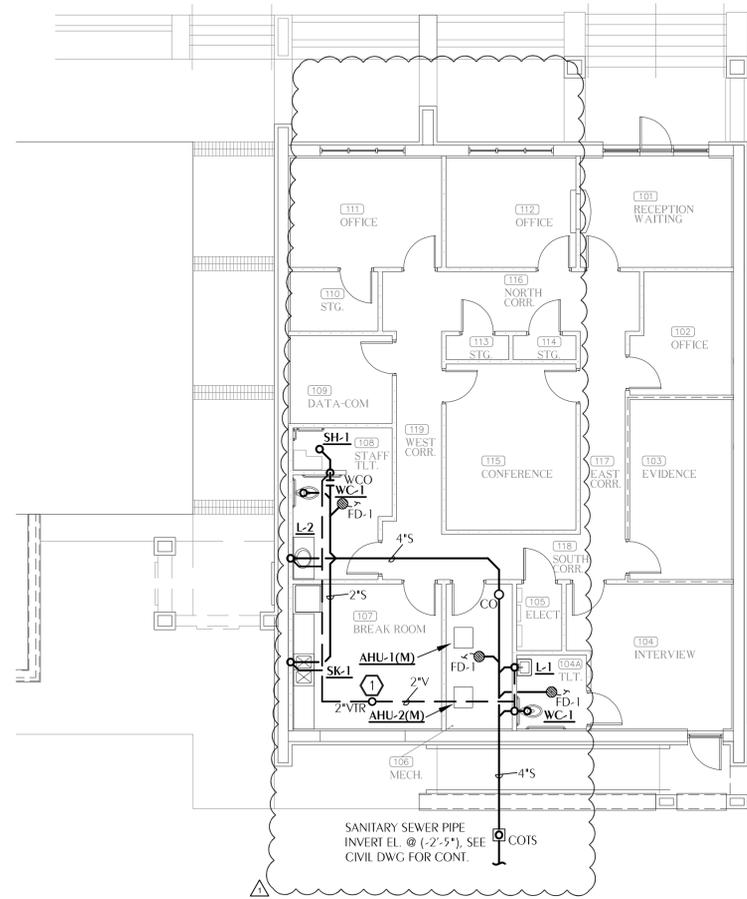
SHEET No.
P-0.2

SHEET NOTES

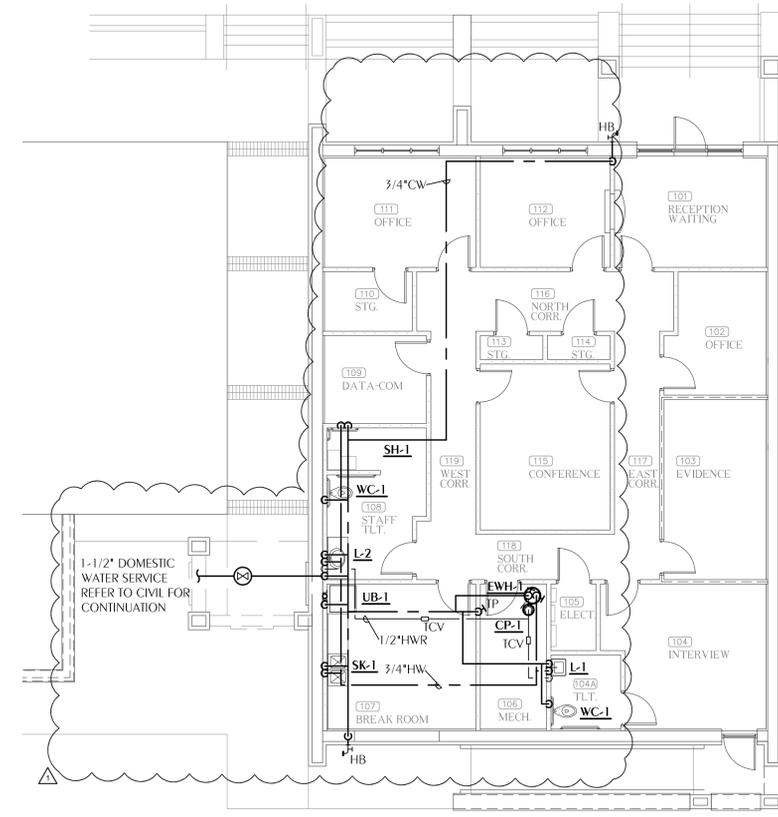
1 VENTS THRU ROOF (VTR'S) SHALL BE PROTECTED AT ROOF PENETRATION. PROVIDE PRODUCTS BY ROOF PENETRATION HOUSING, LLC OR APPROVED EQUAL MEETING ICC-500 STANDARDS. PROVIDE CYCLONE CVTR. INSTALL PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

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1 PLUMBING SANITARY FLOOR PLAN
 P-1.0 SCALE: 1/8" = 1'-0"



2 PLUMBING DOMESTIC WATER FLOOR PLAN
 P-1.0 SCALE: 1/8" = 1'-0"

REFERENCE:
 FINISHED FLOOR ELEVATION = 0'-0"

WATFORD ENGINEERING
 4452 Clinton Street Marianna, Florida 32446
 2449 Moores Mill Road Auburn, AL 36830
 Florida CA Number: 27825
 Keith A. Johnson, PE
 Florida License Number: 86457
 850.535.3447
 Project Number: 2025-018

ADDENDUM 1 - 01-20-26
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 OCTOBER 31, 2025

SHEET PLUMBING FLOOR PLANS
 TITLE:
 NEW POLICE STATION
 FOR THE:
THE CITY OF COTTONDALE
 FRONT ST. COTTONDALE, FLORIDA

JOB NUMBER:
 M-2024-13
 DATE:
 OCT. 31, 2025
 DRAWN BY:
 JDD
 CHECKED BY:
 KAJ

SHEET No.
P-1.0

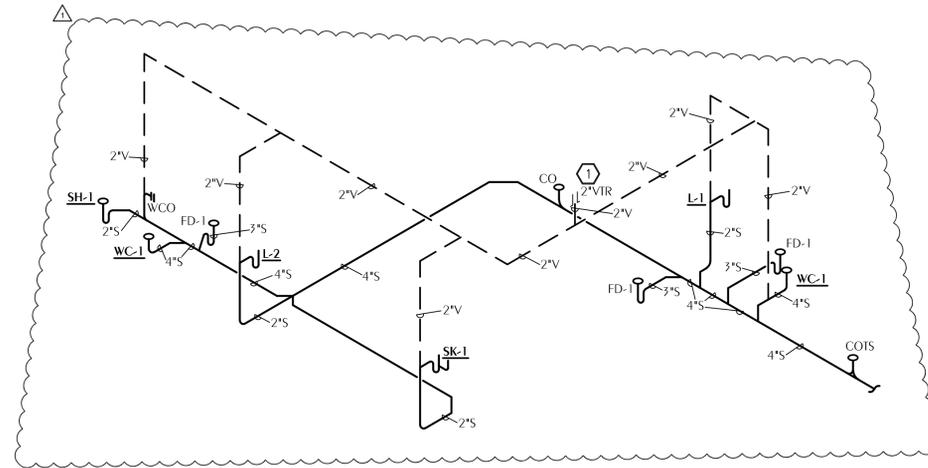
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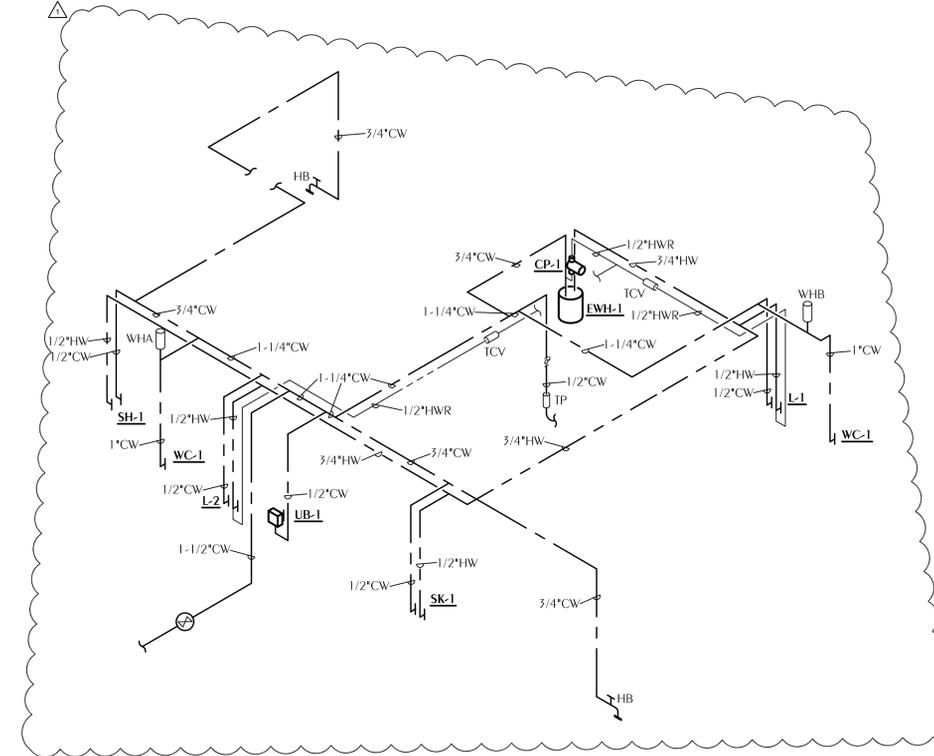
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1 PLUMBING SANITARY RISER DIAGRAM
 P-2.0 SCALE: NONE



2 PLUMBING DOMESTIC WATER RISER DIAGRAM
 P-2.0 SCALE: NONE

SHEET PLUMBING RISER DIAGRAMS

NEW POLICE STATION

FOR THE: **THE CITY OF COTTONDALE**

FRONT ST. COTTONDALE, FLORIDA

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DRAWN BY:
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SHEET No.

P-2.0

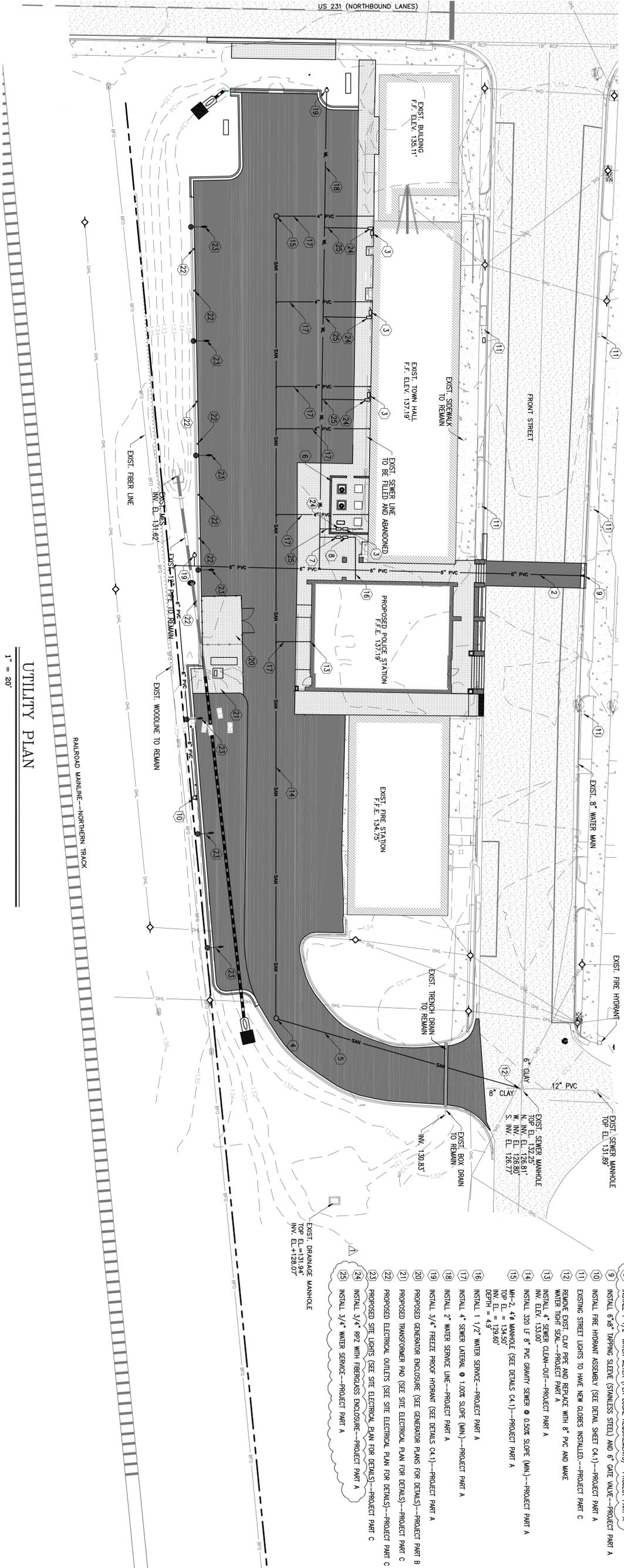
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UTILITY PLAN
1" = 20'

LEGEND

- PROPERTY BOUNDARY
- EXISTING ASPHALT AREA
- EXISTING CONCRETE
- EXIST. OVERHEAD ELECTRIC
- PROPOSED CONCRETE
- AREAS TO BE MILLED/RESURFACED
- EXISTING CONTOURS
- EXISTING SEWER LATERAL
- PROPOSED SEWER LATERAL
- PROPOSED WATER SERVICE
- PROPOSED 6" WATER LINE
- PROPOSED 4" SEWER LATERAL

SCALE

0 20

UTILITY NOTES

- INSTALL 4" SEWER CLEAN-OUT (SEE DETAIL F/06)--PROJECT PART A
INV. EL. 134.69
- INSTALL 2 1/2" LF 6" WATER LINE--PROJECT PART A
TOP EL. = 133.80
DEPTH = 5.128.00
- INSTALL 3/4" WATER METER (PER LOCAL REQUIREMENTS)--PROJECT PART A
MH-1, 4 1/2" MANHOLE (SEE DETAILS C4.1)--PROJECT PART A
TOP EL. = 133.80
INV. EL. = 128.00
- INSTALL 95 LF 8" PVC GRANTY SEWER @ 0.50% SLOPE (INV.)--PROJECT PART A
- PROPOSED CONCRETE MECHANICAL YARD (SEE MECHANICAL PLAN FOR DETAILS)--PROJECT PART A
- INSTALL 1 1/2" RPZ WITH FIBERGLASS ENCLOSURE--PROJECT PART A
- INSTALL 6"x8" TAPPING STEVE (STAINLESS STEEL) AND 6" GATE VALVE--PROJECT PART A
- INSTALL FIRE HYDRANT ASSEMBLY (SEE DETAIL SHEET C4.1)--PROJECT PART A
- EXISTING STREET LIGHTS TO HAVE NEW GLOBES INSTALLED--PROJECT PART C
- REMOVE EXIST. CLAY PIPE AND REPLACE WITH 8" PVC AND MAKE WATER TIGHT SEAL--PROJECT PART A
- INSTALL 4" SEWER CLEAN-OUT--PROJECT PART A
INV. EL. 133.00
- INSTALL 300 LF 8" PVC GRANTY SEWER @ 0.50% SLOPE (INV.)--PROJECT PART A
MH-2, 4 1/2" MANHOLE (SEE DETAILS C4.1)--PROJECT PART A
TOP EL. = 134.50
INV. EL. = 128.60
DEPTH = 4.9'
- INSTALL 1 1/2" WATER SERVICE--PROJECT PART A
- INSTALL 4" SEWER LATERAL @ 1.00% SLOPE (INV.)--PROJECT PART A
- INSTALL 2" WATER SERVICE LINE--PROJECT PART A
- INSTALL 3/4" FREEZE PROOF HYDRANT (SEE DETAILS C4.1)--PROJECT PART A
- PROPOSED GENERATOR ENCLOSURE (SEE GENERATOR PLANS FOR DETAILS)--PROJECT PART B
- PROPOSED TRANSFORMER PAD (SEE SITE ELECTRICAL PLAN FOR DETAILS)--PROJECT PART C
- PROPOSED ELECTRICAL OUTLETS (SEE SITE ELECTRICAL PLAN FOR DETAILS)--PROJECT PART C
- INSTALL 3/4" RPZ WITH FIBERGLASS ENCLOSURE--PROJECT PART A
- INSTALL 3/4" WATER SERVICE--PROJECT PART A

<p>Project Name: DOWNTOWN IMPROVEMENTS AND NEW POLICE STATION</p> <p>Client Name: TOWN OF COTTONDALE</p>		<p>DHM MELVIN ENGINEERING 428 Lafayette Street Tallahassee, FL 32308 Phone: (850) 482-3945</p> <p>TALLAHASSEE OFFICE 2541-1 Barrington Circle Tallahassee, FL 32308 Phone: (850) 671-7221</p> <p>www.melvineng.com</p>					
<p>RELEASE RECORD</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>01-22-2025</td> <td>Portable water line size meter & backflow</td> </tr> </tbody> </table>			No.	Date	Description	1	01-22-2025
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1	01-22-2025	Portable water line size meter & backflow					
<p>DHM Project No: C0172ZHR DRAWN BY: MARY M. FARRIS CHECKED BY: DHM PROJECT ENGINEER: David H. Melvin, P.E. EI Registration No: FL38734</p>							
<p>Sheet Title: UTILITY PLAN</p> <p>Drawing No: C4</p>							
<p>Submittal: 90% Plans</p> <p>Date: 08-2025</p> <p>X Not for Construction Released for Construction</p>							