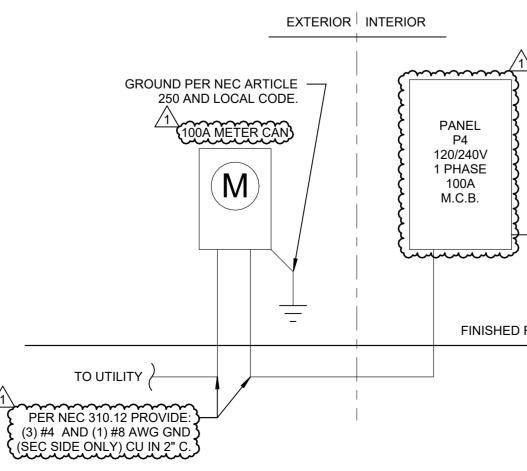
LOCATION: GARAGE

	DESCRIPTION	WIRE	BRKR	PL		Α	l	3	PL	BRKR	WIRE DESCRIPTION		
1	LIGHTING GARAGE / MASTER (6)	12	20 A	1	0.93	2.87			2	25 A	10	CU-1	2
3	LIGHITNG LIVING AREA (6)	12	20 A	1			1.12	2.87					4
5	LIGHTING BEDROOMS / DINING (6)	12	20 A	1	0.90	1.50			1	15 A	12	GAS FURNACE (6)	6
7	RECEPTS KITCHEN (6)	12	20 A	1			0.72		1			SPACE	8
9	<b>RECEPT KITCHEN COUNTER (6)</b>	12	20 A	1	1.50				1			SPACE	10
11	RECEPT KITCHEN COUNTER (6)	12	20 A	1			1.50	0.10	1	20 A	12	GAS WATER HEATER (6)	12
13	<b>REFRIGERATOR</b> (6)	12	20 A	1	1.08	0.18			1	20 A	12	GAS RANGE (6)	14
15	DISHWASHER / DISPOSAL (6)	12	20 A	1			1.20	1.20	1	20 A	12	GAS DRYER (6)	16
17	RANGE HOOD OR MICROWAVE (6)	12	20 A	1	1.20	2.50			2	30 A	10	FUTURE ELEC DRYER	18
19	<b>RECEPTS DINING ROOM (6)</b>	12	20 A	1			0.54	2.50				(	20
21	<b>RECEPTS LIVING ROOM (6)</b>	12	20 A	1	0.54	1.50			1	20 A	12	WASHER (6)	22
23	RECEPTS LIVING ROOM (6)	12	20 A	1			0.72	1.20	1	20 A	12	GARAGE DOOR OPENER (6)	24
25	<b>RECEPTS MASTER BDRM (6)</b>	12	20 A	1	0.54	0.90			1	20 A	12	<b>RECEPTS EXTERIOR (6)</b>	26
27	RECEPTS MASTER BDRM (6)	12	20 A	1			0.72	0.54	1	20 A	12	RECEPTS GARAGE (6)	28
29	RECEPT MASTER BATH (6)	12	20 A	1	0.18	0.54			1	20 A	12	RECEPTS GARAGE (6)	30
31	RECEPTS BEDROOM 2 (6)	12	20 A	1			0.90	0.72	1	20 A	12	RECEPTS HALL / LAUNDRY (6)	32
33	RECEPTS BEDROOM 2 / 3 (6)	12	20 A	1	0.90	0.07			1	20 A	12	SMOKE DETECTORS (6)	34
35	RECEPTS BEDROOM 3 (6)	12	20 A	1			0.72	0.21	1	20 A	12	MASTER CLOSET (6)	36
37	RECEPT BATHROOM (6)	12	20 A	1	0.18	0.00			1	20 A		SPARE (6)	38
39	SPACE			1					1			SPACE	40
41	SPACE			1					1			SPACE	42
	TOTAL CONNECTED			CTED	18	3.00	17	.48	KVA				
	TOTAL CONNECTED			CTED	14	9.98	145	5.67	AMP	S	SEE RESIDENTIAL LOAD CALCS		

			LIGHTING FIX	TUF	RE S	CHE	DULE
TYPE	QTY	MANUFACTURER	CATALOG NUMBER	VOLT	WATT	LAMP	DESCRIPTION
A	12	ELITE	REL637-1200L-DIMTR-120-30K -90-WH	120V	16 VA	LED	6" RECESSED CAN LIGHT, DAMP LOCATION RATED, RT-CL-WH
В	1	GOLDEN	HOMESTEAD 4 LIGHT MINI CHANDELIER	120V	48 VA	LED	DECORATIVE DINING ROOM LIGHT, PROVIDE 100W EQV E26 3000K LED BULBS
С	2	TBD	TBD	120V	18 VA	LED	BAR PENDANT LIGHT
D	2	COMMERCIAL	9IN 120W EQU MUSHROOM FLUSH MOUNT	120V	32 VA	LED	9" DOME LIGHT
E	2	VOGUE	WS-3127-3000K	120V	39 VA	LED	3' VANITY LIGHT
F	4	EELP	CGF7-19L-120V-30K	120V	480 VA	LED	CEILING FAN W/ LIGHT - VEIRIFY COLOR W/ ARCHITECTURAL
G	3	ELITE	4-OEC-LED-5000L-DIM10-40K- 85	120V	37 VA	LED	4' GARAGE LIGHT
Н	4	HAMPTON	WICKFORD 1-LIGHT WALL LANTERN	120V	16 VA	LED	WALL MOUNTED PORCH LIGHT, PROVIDE 100W EQV E26 4000K LED BULB
J	2	BROAN	679	120V	240 VA	LED	BATHROOM EXHAUST FAN W/ LIGHT - REF MECHANICAL



3 ELECTRICAL ONE-LINE N.T.S.

SERVES: HOUSE

100 A, M.C.B. (8) AIC SURFACE

120/240 Single, 1PH, 3W

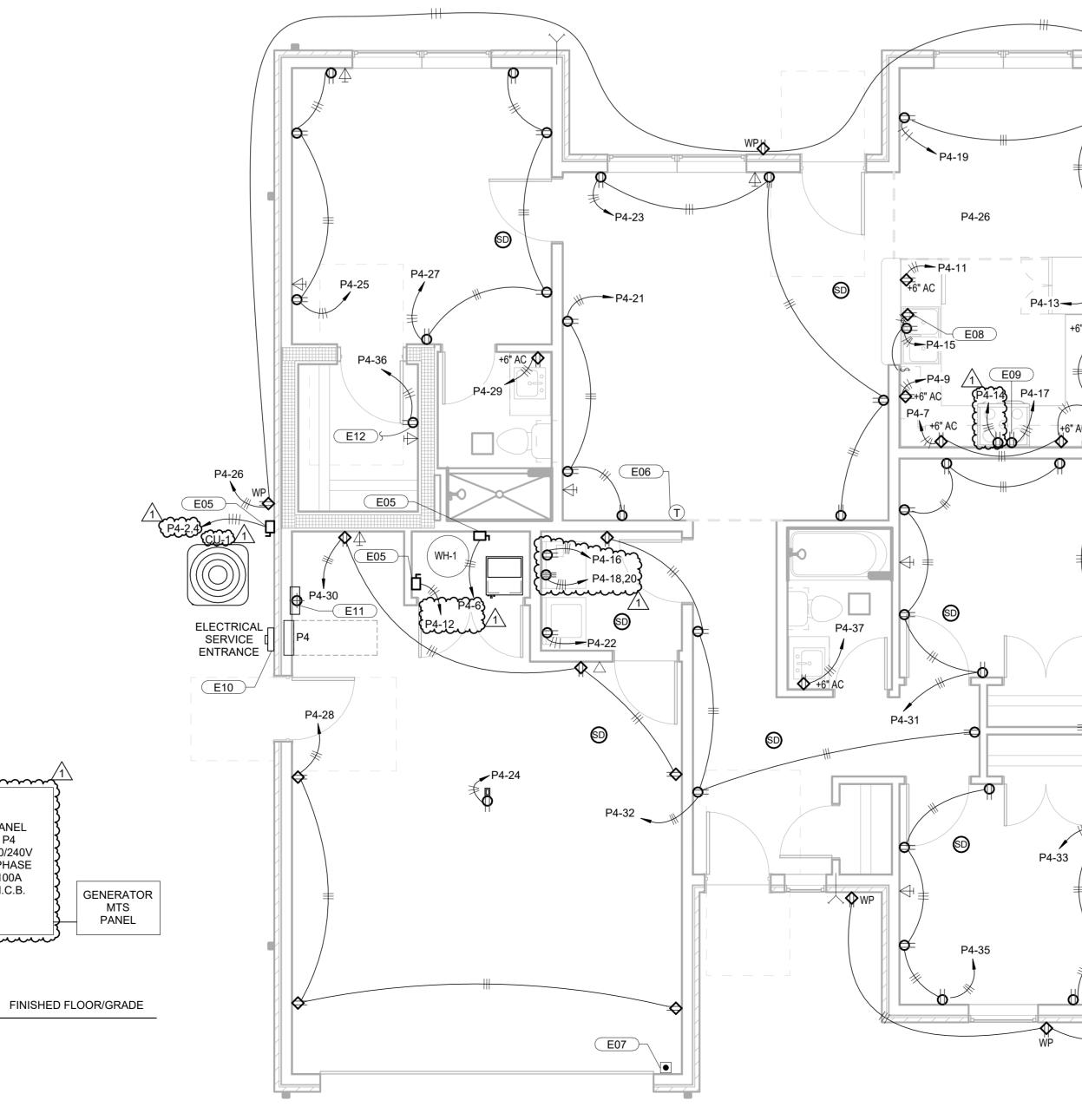
EQUIPMENT GROUND BUS

### TYPICAL MOUNTING HEIGHTS

ALL HEIGHTS ARE FROM FINISHED FLOOR TO DEVICE UNLESS NOTED OTHERWISE. DEVICES SHALL BE MOUNTED 4" ABOVE THE BACKSPLA	S ABOVE A COUNTERTOP
TELEPHONE JACKS DATA JACKS	+18" +48" +18" +44"

PA	NELBOARD NOTES (#):		GEN	NERAL NOTES:
1.	TERMINATE GROUND ON ISOLATED GROUND BU	JS.	1.	NOT ALL SYMBOLS MAY A
2.	PROVIDE LOCKING DEVICE (LOCK-OFF FOR MAIL	NTENANCE).	2.	PROVIDE ALL POWER CIR
3.	PROVIDE LOCKING DEVICE (LOCK-ON FOR CRIT	ICAL LOAD).		CONNECTIONS TO ALL EG
4.	PROVIDE GFCI BREAKER (PERSONNEL PROTEC	TION 5 mA).	3.	PROVIDE A GROUNDING O REQUIRED FOR ALL EQUI
5.	PROVIDE GFCI BREAKER (EQUIPMENT PROTECT	ГІОN 30 mA).	4.	THE USE OF EXTENSION (
6.	PROVIDE COMBINATION ARC FAULT CIRCUIT BR	EAKERS WHERE INDICATED PER	_	ALL ELECTRICAL WIRING
	NEC 210.12(A).		5.	ALL ELECTRICAL DEVICE
7.	CONDUCTOR SIZE HAS BEEN INCREADED TO AC SIZE GROUNDING CONDUCTOR PROPORTIONAL		6.	ALL DEVICES LOCATED W POSSIBLE.
8.	COORDINATE PANELBOARD AIC RATING WITH U	TILITY.	7.	ALL WORK SHALL BE PER CODE (NEC), AND ALL AP
9.	REFERENCE ONE-LINE DIAGRAM FOR WIRE SIZE	E/QUANTITY.		REQUIREMENTS SHALL T
~	$\cdots$		8.	BIDDERS SHALL VISIT THE AND SCOPE OF THE WOR
Ş	RESIDENTIAL LOAD CALC			EXAMINATION HAS BEEN
ł	PANELBOARD VOLTAGE	j		LATER CLAIMS FOR LABO ALLOWED. ALL PERMIT AN
Ş	DWELLING UNIT AREA	A = 1210 SQFT		
ξ	GENERAL LIGHTING/POWER (3W/SQFT)	= 3630 VA	GEN	NERAL POWER NOTES
ł	SMALL APPLIANCE CIRCUIT (2 CIRCUITS)	= 3000 VA	1.	PROTECT ALL ADJACENT
8	WASHER (ASSUMED) DRYER (MINIMUM)	= 1500 VA 5 = 5000 VA 5		AT NO ADDITIONAL COST
ξ	REFRIGERATOR (ASSUMED)	= 1080 VA	2.	CONTRACTOR SHALL COO DRAWINGS FOR EXACT LO
ł	VENT HOOD / MICROWAVE (ASSUMED)	D D		
ξ	DISHWASHER / DISPOSAL (ASSUMED) GAS RANGE (ASSUMED)	= 1200 VA = 240 VA	3.	PROVIDE A IN-GROUND P
ξ	GAS WATER HEATER (ASSUMED)	= 100 VA	4.	WIRING DEVICES: DEVICE
Ę	SUBTOTAI	L = 16950 VA		ON PLANS. COORDINATE FOR MOUNTING HEIGHTS
Ę	FIRST 10KVA AT 100% REMAINDER AT 40%		5.	WIRING SHALL INCLUDE F
Ę	CONDENSING UNIT / HEAT PUMP	= 5736 VA	6.	CONTRACTOR IS RESPON
ξ	GAS FURNACE (0%)	= 1500 VA	7.	WHERE BRANCH CIRCUIT
ξ	HVAC LOAD PER NEC 220.82(C	ć K	8.	
ξ	TOTAL FEEDER LOAD PER NEC 220.8	5 = 18516 VA = 77 A	0	
ξ	·······································		9.	PROVIDE BLANK FILLERS
			10.	FEEDERS SHALL CONFOR 210.19(A).
	KEYNOTES		11.	ONLY FEEDER CIRCUITS
		, 		LEGEND SHALL BE INSTAI POSSIBLE. ALL SITE CON
	E01 REFER TO ARCHITECTURAL ELEVATIONS FC		12.	HOME RUNS ARE SHOWN
	E02 MOUNT FIXTURE HORIZONTALLY AND CENT MIRROR.	ER ABOVE VANITY		DEVICES AS ALLOWED BY
	E03 SEAL FIXTURE TO CEILING WITH WEATHERF MANUFACTURERS INSTRUCTION. PROVIDE		13.	NO EXPOSED CONDUIT O ARCHITECT/ENGINEER.
	TRIM FOR FIXTURE.			ANOTHEO I/ENGINEER.
	E04 WHERE POSSIBLE, SWITCH INTEGRAL LIGHT SEPERATELY.		GEN	IERAL LIGHTING NOT
	E05 DISCONNECT SWITCH SIZED PER MANUFAC (MAXIMUM OVER-CURRENT PROTECTION).	TURERS MOCP RATING	1.	PROVIDE ALL ACCESSOR

	TRIM FOR FIXTURE.
E04	WHERE POSSIBLE, SWITCH INTEGRAL LIGHT AND FAN SEPERATELY.
E05	DISCONNECT SWITCH SIZED PER MANUFACTURERS MOCP RATING (MAXIMUM OVER-CURRENT PROTECTION).
E06	PROVIDE CONNECTION OF THERMOSTAT TO FCU USING 18/7 THERMOSTAT WIRING. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION PRIOR TO ROUGH-IN.
E07	LOCATION OF PUSHBUTTON CONTROLS FOR GARAGE DOOR OPENER.
E08	DISHWASHER RECEPTACLE TO BE GFCI TYPE. GARBAGE DISPOSAL SWITCH FOR STANDARD RECEPTACLE SHALL BE INTALLED AFTER DISHWASHER RECEPTACLE TO ENSURE SWITCH OPERATION DOES NOT CONFLICT WITH GFCI FUNCTIONALITY.
E09	RECEPTACLE FOR RANGE HOOD OR OVER THE RANGE MICROWAVE SHALL BE INTALLED IN CABINETRY OVER RANGE. COORDINATE ROUTING OF CORD THROUGH MILLWORK IN FIELD.
E10	COORDINATE METER CAN LOCATION AND REQUIREMENTS WITH UTILITY PRIOR TO SITE WORK OR ROUGH-IN.
E11	TRANSFER CENTER WITH MANUAL TRANSFER SWITCH CONTAINING A MINIMUM OF TWO BREAKERS. GENERATOR TWIST LOCK RECEPTACLE LOCATED BELOW.
E12	CONNECT LIGHT AND RECEPTACLE IN HARDENED SPACE ON A DEDICATED CIRCUIT TO BE ROUTED THROUGH TRANSFER CENTER PRIOR TO LANDING ON ELECTRICAL PANEL.



2 POWER PLAN 1/4" = 1'-0"

NOT ALL SYMBOLS MAY APPLY TO ALL SHEETS.

PROVIDE ALL POWER CIRCUITS, WIRING, CONDUIT, OUTLETS, DISCONNECT SWITCHES, ETC., AND PROVIDE FINAL ELECTRICAL

CONNECTIONS TO ALL EQUIPMENT.

PROVIDE A GROUNDING CONDUCTOR FOR ALL CIRCUITS IN ACCORDANCE WITH N.E.C. ARTICLE 250. VERIFY EXACT CONNECTIONS REQUIRED FOR ALL EQUIPMENT PRIOR TO ROUGH--IN. THE USE OF EXTENSION CORDS OR POWER STRIPS AS PERMANENT WIRING TO EQUIPMENT, LIGHTING, FANS, ETC. IS PROHIBITED.

ALL ELECTRICAL WIRING SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE. ALL ELECTRICAL DEVICE AND COVER PLATE COLORS TO BE COORDINATED WITH ARCHTIECTURAL FINISH PLANS.

ALL DEVICES LOCATED WITHIN CLOSE PROXIMITY TO ONE ANOTHER SHALL BE COVERED BY A SINGLE FACE PLATE WHENEVER POSSIBLE.

ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITHT THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENTS SHALL TAKE PRECEDENCE.

BIDDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS TO FULLY UNDERSTAND THE NATURE AND SCOPE OF THE WORK PRIOR TO SUBMITTING A BID. THE SUBMISSION OF A BID IS CONSIDERED EVIDENCE THAT SUCH EXAMINATION HAS BEEN PERFORMED AND THAT COMPLIANCE WITH ALL GOVERNING CODES/REQUIREMENTS IS INCLUDED IN BID. LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FORESEEABLE DIFFICULTIES ENCOUNTERED SHALL NOT BE ALLOWED. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BASE BID.

ERAL POWER NOTES:

PROTECT ALL ADJACENT SURFACES DURING CONSTRUCTION. ANY SURFACES DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS WITH OTHER TRADES. SEE MECHANICAL AND PLUMBING

DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE A IN-GROUND PULL BOX EVERY 200' FOR ALL UNDERGROUND CONDUIT RUNS.

WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHER WISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY. REFERENCE TYPICAL MOUNTING HEIGHT SCHEDULE FOR MOUNTING HEIGHTS.

WIRING SHALL INCLUDE FINAL CONNECTIONS TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATION SCHEDULES UPON COMPLETION. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUITS AND DE-RATE CURRENT CARRYING CONDUCTORS PER NEC.

PROVIDE APPROPRIATE HANDLE TIES FOR TWO SINGLE POLE CIRCUIT BREAKERS AS REQUIRED WHEN USING MULTI-WIRE BRANCH

CIRCUITS PER NEC ARTICLE 210.4 PART (B).

PROVIDE BLANK FILLERS FOR ALL UNUSED SPACES IN PANELBOARDS WHERE FACTORY KNOCKOUTS HAVE BEEN REMOVED. FEEDERS SHALL CONFORM TO NEC 215.2. BRANCH CIRCUITS AND VOLTAGE DROP REQUIREMENTS SHALL CONFORM TO NEC 210.19(A).

ONLY FEEDER CIRCUITS SPECIFICALLY NOTED AS UNDERGROUND ON THE ONE-LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. ALL OTHER FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED OVERHEAD WHERE POSSIBLE. ALL SITE CONDUITS SHALL BE INSTALL AT A MINIMUM OF 24" UNDER FINISHED GRADE.

HOME RUNS ARE SHOWN SEPARATELY TO PRESERVE DRAWING CLARITY. COMBINE HOME RUNS SERVING LIGHTING AND WIRING DEVICES AS ALLOWED BY THE NEC. NO EXPOSED CONDUIT OR WIRING IN FINISHED SPACES SHALL BE ALLOWED WITHOUT WRITTEN PERMISSION FROM

## ERAL LIGHTING NOTES::

2.

3.

5.

4.

PROVIDE ALL ACCESSORIES REQUIRED FOR FUNCTIONAL ELECTRICAL INSTALLATION AND SUPPORT.

PROVIDE DRY WALL/PLASTER KIT FOR FIXTURES MOUNTED ON GYPBOARD PER CEILING PLAN.

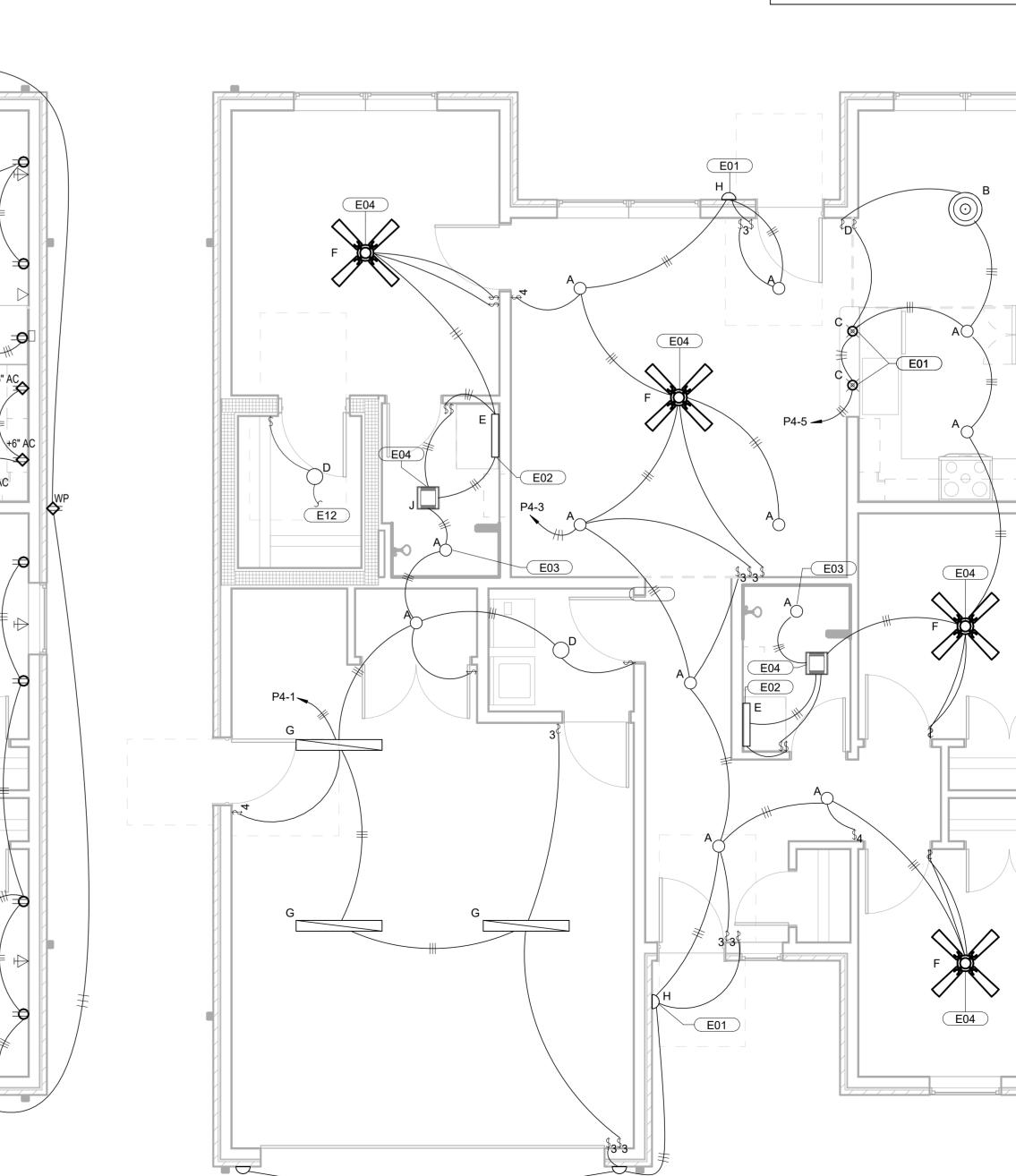
LIGHT FIXTURES SHALL BE SUPPORTED IN ACCORDANCE WITH NEC ARTICLE 300; SPECIFICALLY PARAGRAPH 300.11(A).

COORDINATE EXACT FIXTURE LOCATIONS WITH STRUCTURE, DIFFUSERS, ETC.

THE LOCATION OF DUCTS, PIPE AND EQUIPMENT AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC AND SCHEMATIC. IT IS THE RESPONSIBILITY OF OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE LOCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFFSET TO AVOID STRUCTURE AND/OR ANY OTHER PIPING. REFER TO LIGHT FIXTURE SCHEDULE FOR ALL LIGHT FIXTURES THAT ARE IC RATED. ALL RECESSED FIXTURES SHALL ADHERE TO ARTICLE 410.116 OF THE NATIONAL ELECTRICAL CODE (NEC).

7. PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL LIGHT FIXTURES AND LIGHT CONTROLS.

1) LIGHTING PLAN 1/4" = 1'-0"



ELECI	RICAL LEGEI
(NOT A	ALL SYMBOLS MAY BE USED)
SYMBOL	DESCRIPTION
U	JUNCTION BOX
φ	RECEPTACLE, 120V DUPLEX
$\Diamond$	RECEPTACLE, 120V GFI DUPLEX
(	RECEPTACLE, 240V SIMPLEX
<b>+</b>	RECEPTACLE, 120V QUADPLEX
	PANELBOARD
	DISCONNECT SWITCH, NON-FUS
Ø	DISCONNECT SWITCH, FUSED
\$	SWITCH, SINGLE POLE
\$3	SWITCH, 3-WAY
\$4	SWITCH, 4-WAY
\$ <sub>D</sub>	SWITCH, DIMMER
	LIGHT FIXTURE, LINEAR
$\bigcirc$	LIGHT FIXTURE, CEILING MOUNT
Ю	LIGHT FIXTURE, WALL MOUNTED
	CIRCUIT, CONCEALED IN WALLS OR CEILI
	CIRCUIT, CONCEALED IN SLAB
$\bigtriangledown$	TELEPHONE
▼	DATA
$\overline{\nabla}$	DATA AND COAXIAL CONNECTIO UNDER SINGLE FACE PLATE
SD	SMOKE / CARBON MONOXIDE DETECTOR

AFF -- ABOVE FINISHED FLOOR WP -- WEATHER PROOF AFCI -- ARC FAULT CIRCUIT INTERUPTING

GFCI -- GROUND FAULT CIRCUIT INTERRUPTING AC -- ABOVE COUNTER

TR -- TAMPER RESISTANT

ABBREVIATIONS:

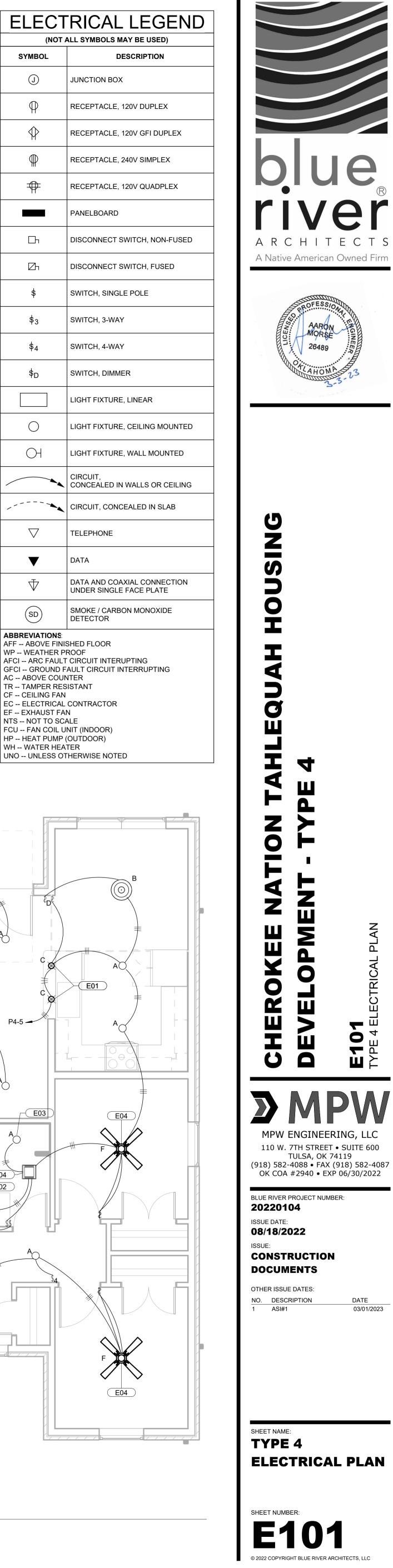
CF -- CEILING FAN

EC -- ELECTRICAL CONTRACTOR EF -- EXHAUST FAN

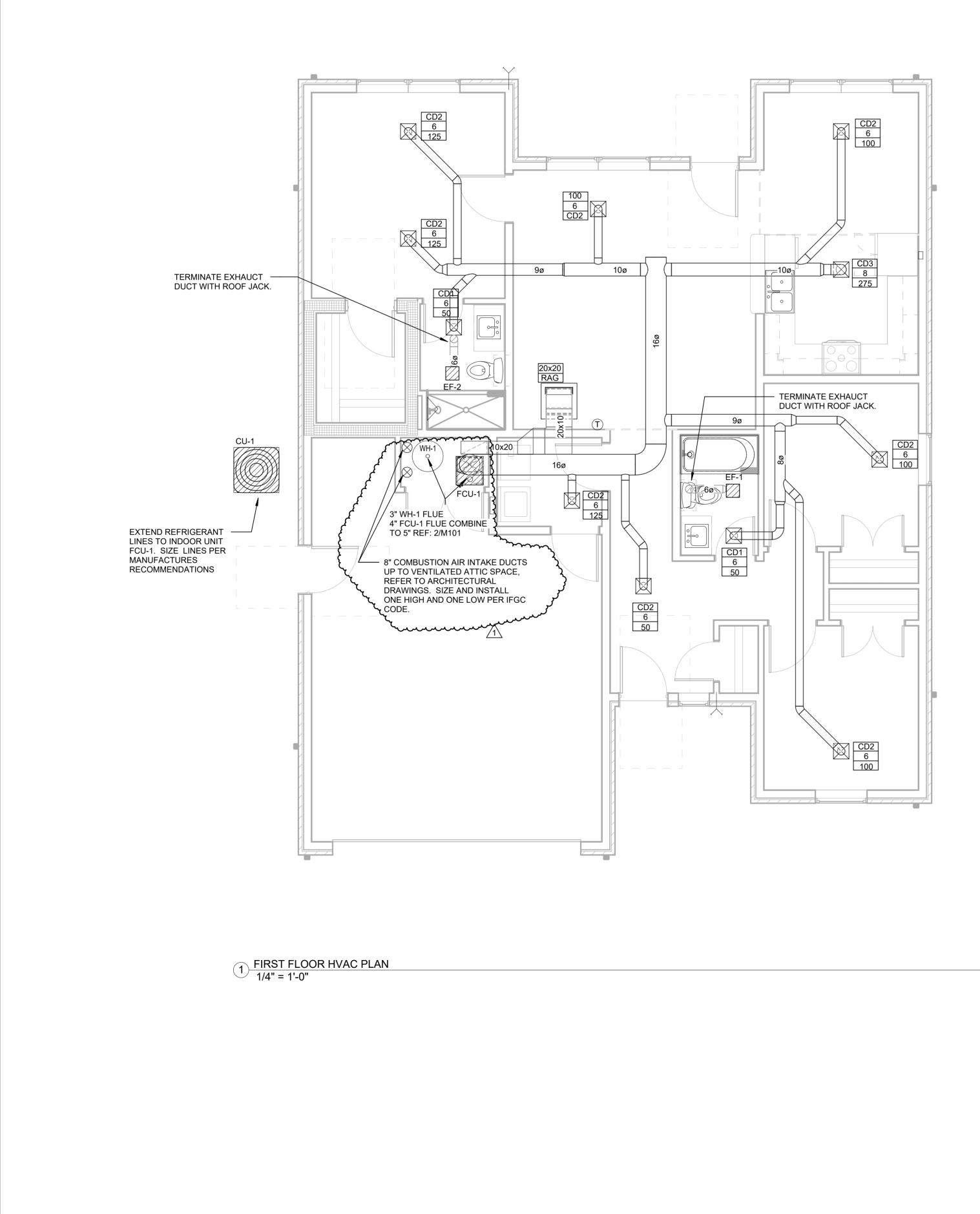
NTS -- NOT TO SCALE

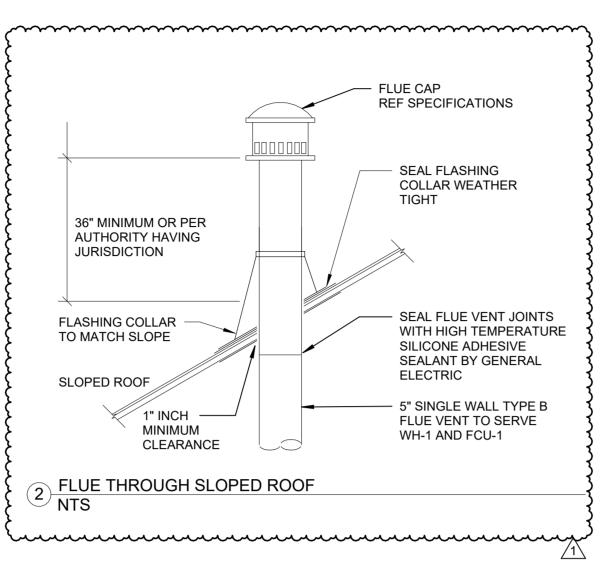
FCU -- FAN COIL UNIT (INDOOR) HP -- HEAT PUMP (OUTDOOR)

WH -- WATER HEATER UNO -- UNLESS OTHERWISE NOTED











		E,	XHAUSI	
MARK	MANUFACTURER & MODEL	LOCATION	MOUNTING	
EF-1	BROAN 679	BATHROOM	CEILING	
EF-2	BROAN 679	BATHROOM	CEILING	
<ol> <li>REFER</li> <li>INSTA</li> <li>MECH</li> </ol>	R TO SPECIFICATIONS FOR ACC LL FAN SYSTEM COMPLETE PEF ANICAL CONTRACTOR SHALL C	EPTABLE ALTERNATE MANUFA R MANUFACTURER'S INSTRUCT OORDINATE FAN OPERATION A	TIONS. AND RELAYS REQUI	
REMARKS:				
B.PROVC.INTEGD.FAN CE.FAN CF.FLEXII	IDE ROUND WALL CAP. RAL BACKDRAFT DAMPER ONTROLLED BY TIME CLOCK TO ONTROLLED BY WALL SWITCH. BLE CONNECTIONS AT DISCHAF	O RUN CONTINUOUSLY DURING REFER TO ELECTRICAL DRAW	HOURS OF OPERA	NE
	EF-1 EF-2 NOTES: 1. REFEI 2. REFEI 3. INSTA 4. MECH 5. PROV REMARKS: A. STANI B. PROV C. INTEG D. FAN C E. FAN C F. FLEXI	EF-1       BROAN 679         EF-2       BROAN 679         NOTES:       1.         1.       REFER TO DIVISION 23 SPACIFICATIO         2.       REFER TO SPECIFICATIONS FOR ACC         3.       INSTALL FAN SYSTEM COMPLETE PER         4.       MECHANICAL CONTRACTOR SHALL C         5.       PROVIDE LABEL FOR EACH PIECE OF         REMARKS:       A.         A.       STANDARD DISCONNECT, COORDINA         B.       PROVIDE ROUND WALL CAP.         C.       INTEGRAL BACKDRAFT DAMPER         D.       FAN CONTROLLED BY TIME CLOCK TO         E.       FAN CONTROLLED BY WALL SWITCH.         F.       FLEXIBLE CONNECTIONS AT DISCHAF	MARK         MANUFACTURER & MODEL         LOCATION           EF-1         BROAN 679         BATHROOM           EF-2         BROAN 679         BATHROOM           NOTES:         .         REFER TO DIVISION 23 SPACIFICATIONS.           2.         REFER TO SPECIFICATIONS FOR ACCEPTABLE ALTERNATE MANUFA           3.         INSTALL FAN SYSTEM COMPLETE PER MANUFACTURER'S INSTRUCT           4.         MECHANICAL CONTRACTOR SHALL COORDINATE FAN OPERATION A           5.         PROVIDE LABEL FOR EACH PIECE OF MECHANICAL EQUIPMENT. CO           REMARKS:         .           A.         STANDARD DISCONNECT, COORDINATE LOCATION WITH ELE TRICAL           B.         PROVIDE ROUND WALL CAP.           C.         INTEGRAL BACKDRAFT DAMPER           D.         FAN CONTROLLED BY TIME CLOCK TO RUN CONTINUOUSLY DURING           E.         FAN CONTROLLED BY WALL SWITCH. REFER TO ELECTRICAL DRAW           F.         FLEXIBLE CONNECTIONS AT DISCHARGE DUCT CONNECTIONS TO M	EF-1       BROAN 679       BATHROOM       CEILING         EF-2       BROAN 679       BATHROOM       CEILING         NOTES:       I.       REFER TO DIVISION 23 SPACIFICATIONS.       CEILING         2.       REFER TO SPECIFICATIONS FOR ACCEPTABLE ALTERNATE MANUFACTURERS.       INSTALL FAN SYSTEM COMPLETE PER MANUFACTURER'S INSTRUCTIONS.         3.       INSTALL FAN SYSTEM COMPLETE PER MANUFACTURER'S INSTRUCTIONS.       MECHANICAL CONTRACTOR SHALL COORDINATE FAN OPERATION AND RELAYS REQUIF         5.       PROVIDE LABEL FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE LABEL NOR         REMARKS:       A.       STANDARD DISCONNECT, COORDINATE LOCATION WITH ELE TRICAL CONTRACTOR.         B.       PROVIDE ROUND WALL CAP.       INTEGRAL BACKDRAFT DAMPER         D.       FAN CONTROLLED BY TIME CLOCK TO RUN CONTINUOUSLY DURING HOURS OF OPERA         E.       FAN CONTROLLED BY WALL SWITCH. REFER TO ELECTRICAL DRAWINGS FOR LOCATION         F.       FLEXIBLE CONNECTIONS AT DISCHARGE DUCT CONNECTIONS TO MINIMIZE VIBRATION

MARK	MANUFACTURER & MODEL#	
CD1	TITUS TMS	
CD2	TITUS TMS	
CD3	TITUS TMS	
RAG	TITUS 350RLF1	Γ
2. NOT AL 3. FOR SU DEVICE 4. WHERE 5. COORE 6. FINAL F	NATE FRAME TPYE WITH CEILI GRILLE AND DIFFUSERS SHO RFACE MOUNTED LAY-IN TYPE MOUNTING STYLE. BACK PAN OF DIFFUSER IS EX NATE LOCATION OF GRILLES, NISH OF ALL AIR DEVICES SHA	
<ol> <li>FOR SUDEVICE</li> <li>DEVICE</li> <li>WHERE</li> <li>COORE</li> <li>FINAL F</li> <li>ACCEP</li> </ol>	RFACE MOUNTED LAY-IN MOUNTING STYLE. BACK PAN OF DIFFUSEN NATE LOCATION OF GR	N TYPE R IS EX ILLES, ES SHA JFACTI

	CONDENSING UNIT SCHEDULE													
			HEATING	ELECTRICAL		ELECTRICAL								
		RATED COOLING CAPACITY	CAPATITY MAX/MIN											
RK	MANUFACTURER & MODEL	(BTU/H)	(BTU/H)	VOLTS	HZ	PHASE	MCA	MOCP	RLA	SEER	WEIGHT	NOTES		
	DAIKIN DX6VSS3610	33,600	N/A	230 V	60 Hz	1	23.9 A	25 A	16.8 A	16.2	150 lb	1,2,3,4,5		

ALL UNITS SHALL BE SUPPLIED ASCOMPLETE SYSTEMS WITH EXPANSION VALVES (TXV), FILTER-DRYERS, SIGHT GLASS, LOW AMBIENT HEATER, CRANKCASE HEATER AND R410A REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL VERIFY WITH THE UNIT MANUFACTURER THAT REFRIGERANT LINES ARE WITHIN THE RECOMMENDED ALLOWABLE LINE LINGTHS OF RUN AND RISE. CONTACT THE ENGINEER IF LINE LENGTHS EXCEED THESE REQUIREMENTS. INSTALL NEW UNITS ON 4" THICK CONCRETE PAD SUITABLE FOR HVAC SYSTEMS. ANCHOR UNIT TO PAD. INSTALLING CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BID AND INSTALL THE EQUIPMENT. FIELD INSTALLED DISCONNECT SWITCH BY DIF. 26 ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS.

					HEATING		EL	ECTRICA	L		SUPPLY F	AN		
ĸ	MANUFACTURER	MODEL #	S/A CFM	ESP	OUTPUT CAPACITY (BTU/H)	v	Hz	PHASE	МСА	МОСР	MOTOR HP	FLA	CONFIG	NOTES
-1	DAIKIN	DC80TN0804BN	1200	0.5	64,000	115 V	60 Hz	1	12 A	15 A	0.75	5 A	VERTICAL	1,2,3,4
		ES PER MANUFACTURE IN PIPING TO NEARES RECOMMENDED 7 DAY	FLOOR DRA	AIN WITH C	ODE APPROVE		P.							

# EXHAUST FAN SCHEDULE

							ELECTRICAL					
۲	MANUFACTURER & MODEL	LOCATION	MOUNTING	CFM	ESP	SONES	V	Р	Hz	WATTS	SPEEDS	REMAR
	BROAN 679	BATHROOM	CEILING	70	0.1	3.5	120 V	1	60 Hz	240 W	1	A, B,C
	BROAN 679	BATHROOM	CEILING	70	0.1	3.5	120 V	1	60 Hz	240 W	1	A, C,E

MECHANICAL CONTRACTOR SHALL COORDINATE FAN OPERATION AND RELAYS REQUIRED WITH THE ELECTRICAL WORK. PROVIDE LABEL FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE LABEL NAMING CONVENTION WITH OWNER.

ITEGRAL BACKDRAFT DAMPER FAN CONTROLLED BY TIME CLOCK TO RUN CONTINUOUSLY DURING HOURS OF OPERATION. REFER TO ELECTRICAL DRAWINGS. FAN CONTROLLED BY WALL SWITCH. REFER TO ELECTRICAL DRAWINGS FOR LOCATION BY BAR. PROVIDE LABEL FOR SWITCH ON SWITCH PLATE.

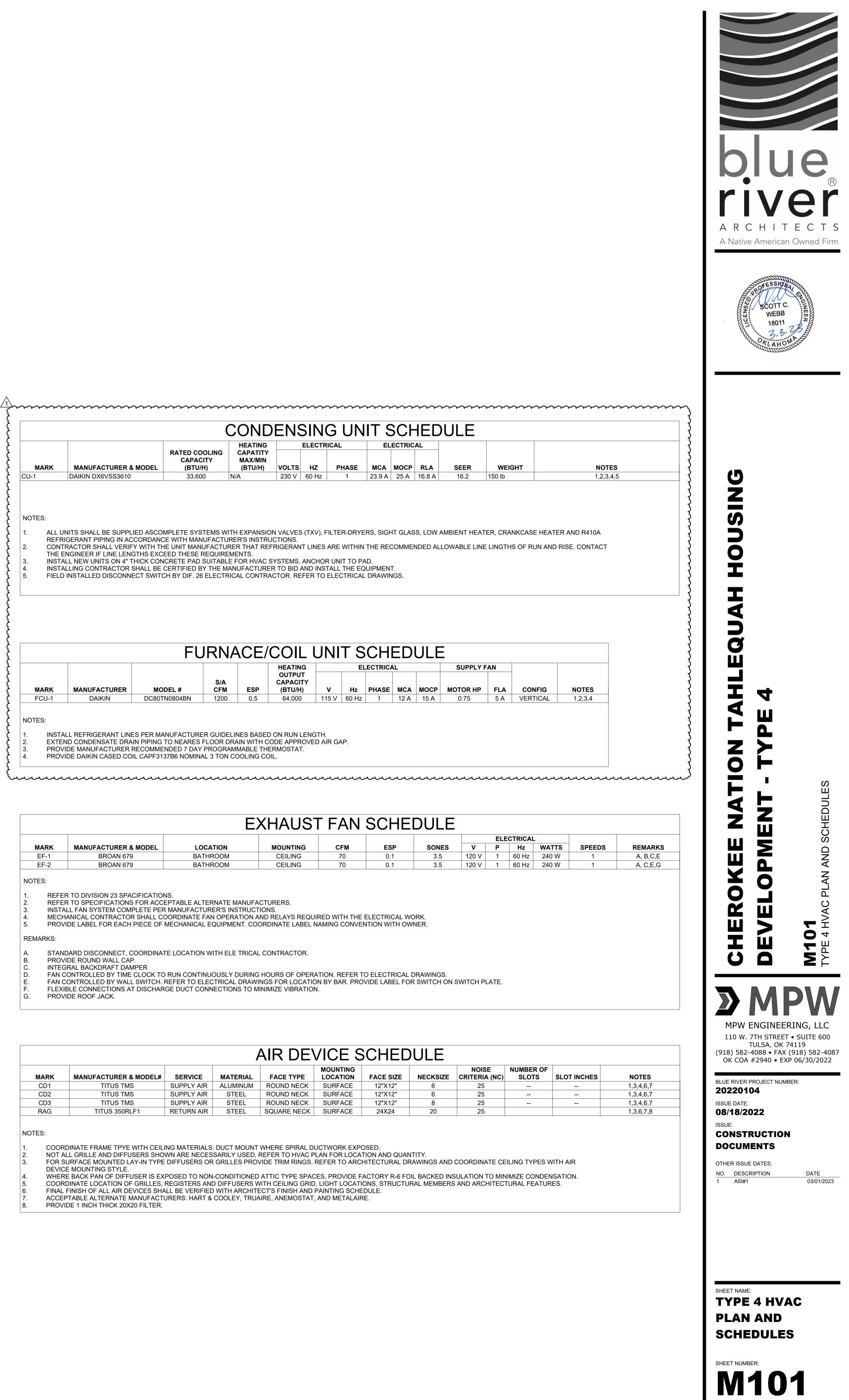
## **AIR DEVICE SCHEDULE**

					MOUNTING			NOISE	NUMBER OF						
ĸĸ	MANUFACTURER & MODEL#	SERVICE	MATERIAL	FACE TYPE	LOCATION	FACE SIZE	NECKSIZE	<b>CRITERIA (NC)</b>	SLOTS	SLOT INCHES	NOTES				
1	TITUS TMS	SUPPLY AIR	ALUMINUM	ROUND NECK	SURFACE	12"X12"	6	25			1,3,4,6,7				
2	TITUS TMS	SUPPLY AIR	STEEL	ROUND NECK	SURFACE	12"X12"	6	25			1,3,4,6,7				
3	TITUS TMS	SUPPLY AIR	STEEL	ROUND NECK	SURFACE	12"X12"	8	25			1,3,4,6,7				
G	TITUS 350RLF1	RETURN AIR	STEEL	SQUARE NECK	SURFACE	24X24	20	25			1,3,6,7,8				

OORDINATE FRAME TPYE WITH CEILING MATERIALS. DUCT MOUNT WHERE SPIRAL DUCTWORK EXPOSED. NOT ALL GRILLE AND DIFFUSERS SHOWN ARE NECESSARILY USED, REFER TO HVAC PLAN FOR LOCATION AND QUANTITY.

FOR SURFACE MOUNTED LAY-IN TYPE DIFFUSERS OR GRILLES PROVIDE TRIM RINGS. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE CEILING TYPES WITH AIR DEVICE MOUNTING STYLE. WHERE BACK PAN OF DIFFUSER IS EXPOSED TO NON-CONDITIONED ATTIC TYPE SPACES, PROVIDE FACTORY R-6 FOIL BACKED INSULATION TO MINIMIZE CONDENSATION.

OORDINATE LOCATION OF GRILLES, REGISTERS AND DIFFUSERS WITH CEILING GRID, LIGHT LOCATIONS, STRUCTURAL MEMBERS AND ARCHITECTURAL FEATURES. INAL FINISH OF ALL AIR DEVICES SHALL BE VERIFIED WITH ARCHITECT'S FINISH AND PAINTING SCHEDULE. ACCEPTABLE ALTERNATE MANUFACTURERS: HART & COOLEY, TRUAIRE, ANEMOSTAT, AND METALAIRE.



© 2022 COPYRIGHT BLUE RIVER ARCHITECTS, LLC

PIPE A	7
	<b>`</b>
	0
	G
FK/ §	A
	+
	N
]⊢	E
	F
	E
<u> </u>	Т
X 	
	F
	T
4	'
	F
	-
	E
	A
	s v
	\
	F
	J
<b>B</b>	-
	E
F	F
	F
	E
	E
	ι
P	F
(P) X	<sup>•</sup>
	F
	Т
	-
<u> </u>	T
FS	F
F	F
	F
	F
	F S F S
	A
<u></u>	F
	F
	v
	E
	-
	L
, Тс	ŀ
E	0
$\Box$	s
	S F
	S C
	A
Ť	
$\diamond$	
т Т	$\vdash$
	F
XX	F
-6-	E

ND FITTINGS		ABBREVIA	٩T	ION	IS	DOMESTIC WATER GENE	
GATE VALVE	ΑΑ	AIR	к	KW	KILOWATT		STOPS SHALL BE PROVIDED WHERE ND AT FIXTURE CONNECTIONS.
GLOBE VALVE	ABV	ABOVE AIR COOLED CONDENSING UNIT			LABORATORY		TEM IN PRESENCE OF OWNER'S
ANGLE GATE VALVE	ACL ACU	ACETYLENE GAS AIR CONDITIONING UNIT	-	LAT	LEAVING AIR TEMPERATURE	WASTES, AND VENTS SH	N. 100 PSIG FOR 8 HOURS. SANITARY, ALL BE TESTED WITH 10' HEAD OF
SOLENOID VALVE	AD AF	ACCESS DOOR AIR FILTER		LB LD	POUND LINEAR DIFFUSER	WATER FOR 8 HOURS WI UNCHANGED.	TH LEVEL OF WATER REMAIN
NON SLAM CHECK VALVE	AFF AFH	ABOVE FINISHED FLOOR AIR FILTER, HIGH EFFICIENCY		LDB LF	LEAVING DRY BULB LINEAR FEET	3. INSTALL ALL EQUIPME	
BUTTERFLY VALVE	AHU APD	AIR HANDLING UNIT AIR PRESSURE DROP		LFD LP	LAMINAR FLOW DIFFUSER LIQUID PROPANE	ACCORDANCE WITH MAN RECOMMENDATIONS.	IUFACTURERS INSTRUCTIONS AND
PLUG VALVE	AR ASSY	ACID RESISTANT ASSEMBLY		L/S LWB	LITERS PER SECOND LEAVING WET BULB	4. INSTALL ALL WATER P	IPING SYSTEMS SO THAT THEY WILL
BALL VALVE	AUX AV	AUXILIARY AUTOMATIC AIR VENT		LWT	LEAVING WATER TEMPERATURE	NOT BE SUBJECT TO ANY PROVISIONS SHALL BE M	UNDUE STRAINS OR STRESSES.
TWO WAY CONTROL VALVE	B BDD	BACKDRAFT DAMPER	M	MAX	MAKE-UP AIR UNIT MAXIMUM MIXING BOX/MOP BASIN	CONTRACTION AND STRU	JCTURAL SETTLEMENT.
PRESSURE REGULATOR	BHP BP	BRAKE HORSE POWER BACKFLOW PREVENTER		MB MBH	THOUSAND BTU/HR		HROUGH FIRE RATED WALLS AND LY SHALL BE INSTALLED AND
	BS	BIRD SCREEN		MD MECH MIN	MOTORIZED DAMPER MECHANICAL MINUTE/MINIMUM	SEALED TO MAINTAIN FIF ASSEMBLIES, MATERIALS	RE RATING WITH U.L. LISTED
THREE WAY CONTROL VALVE	C C C/L	CONDENSATE CENTER LINE		MM MS	MILLIMETERS MOTOR STARTER		SHALL BE INSTALLED NO LESS
PRESSURE REDUCING VALVE	CD CFM	CEILING DIFFUSER CUBIC FEET PER MINUTE	N	N	NITROGEN		INE. REFER TO STRUCTURAL
BUTTERFLY VALVE	CH CHDR CHP	CHILLER CHEMICAL DRAIN CHILLED WATER PUMP		NC NG	NORMALLY CLOSED NATURAL GAS		IMATIC IN NATURE AND IS NOT
AUTOMATIC AIR VENT	CHP CLG CO	CEILING CLEANOUT		NIC NO	NOT IN CONTRACT NUMBER	INTENDED TO BE SCALE	
		CONCRETE CONNECTION		NOX NTS	NITROGEN OXIDE NOT TO SCALE		ON OF PLUMBING WORK WITH
STRAINER, Y TYPE W/GATE VALVE OR HOSE BIBB	CONT	CONTINUED/CONTINUATION/CONTINUOUS CLEAN OUT TO GRADE	0		OXYGEN		
FLEXIBLE CONNECTION	CU CV	CONDENSING UNIT/COPPER CONSTANT VOLUME		OA OAL	OUTSIDE AIR OUTSIDE AIR LOUVER	9. ALL TESTING IS THE R CONTRACTOR, WITHOUT	ESPONSIBILITY OF THE EXTRA COST FOR THE OWNER.
JOINT	CW	COLD WATER		OBD OC	OPPOSED BLADE DAMPER ON CENTER		BE RESPONSIBLE FOR PROVIDING A
EXPANSION JOINT	D DDC DG	DIRECT DIGITAL CONTROL DOOR GRILLE		OS OS&Y	OVERFLOW SCUPPER OUTSIDE SCREW & YOKE	INCOMING DOMESTIC AN	SURE TEST FOR EVALUATING D FIRE PROTECTION SERVICE
FLOW METER	DIA DIM	DIAMETER DIMENSION	Р	PD POC	PRESSURE DROP POINT OF CONNECTION	PRESSURES.	
FLOW DIRECTION	DMPR DN	DAMPER DOWN		PRESS		THE BUILDING WATER DI	ER MAIN PRESSURES FLUCTUATE, STRIBUTION SYSTEM SHALL BE
ELBOW BASE	DPS DR	DIFFERENTIAL PRESSURE SWITCH DRAIN		PRV PSIG PVC	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH POLYVINYL CHLORIDE		PRESSURE AVAILABLE. WHEREVER
ELBOW REDUCING	DSD DSW	DUCT SMOKE DETECTOR DISTILLED WATER	R		RETURN AIR		ESS THAN 60 PSI, A WATER STEM SHALL BE INSTALLED ON THE
	DWG E EAT	DRAWING ENTERING AIR TEMPERATURE		RAG RAR	RETURN AIR GRILLE RETURN AIR REGISTER		Y SYSTEM. WHERE WATER LDING EXCEEDS 80 PSI STATIC, AN
UNION	ED EDB	EQUIPMENT DRAIN ENTERING DRY BULB		RC RD	RAIN CONDUCTOR ROOF DRAIN	APPROVED WATER-PRES	SURE REDUCING VALVE WITH TO ASSE 1003 SHALL BE INSTALLED
PRESSURE GAUGE WITH TRI-COCK	EER EF	ENERGY EFFICIENCY RATIO EXHAUST FAN		REF RF	REFERENCE RETURN FAN	TO REDUCE THE PRESSU	
	EFF	EFFICIENCY EXHAUST GRILLE		RL RM	RAIN LEADER ROOM		
	EL ELEC	ELEVATION ELECTRICAL		RTN	RETURN		
TEST PLUG	ENT ER	ENTERING EXHAUST REGISTER	S	SA SAG	SUPPLY AIR SUPPLY AIR GRILLE		
TEMPERATURE INDICATOR	EWB EWC	ENTERING WET BULB ELECTRIC WATER COOLER		SAN SAR	SANITARY SUPPLY AIR REGISTER		
FLOW SWITCH	EWT EXH	ENTERING WATER TEMPERATURE EXHAUST		SD SD/FD	SMOKE DAMPER COMB. SMOKE DAMPER\FIRE DAMP.	PIPE L	INES
FLOW INDICATOR	EWS	EYE WASH/SHOWER STATION		SF SH	SUPPLY FAN SHEET		POTABLE COLD WATER
REDUCER, CONCENTRIC	F FCO FD	FLOOR CLEANOUT FIRE DAMPER/FLOOR DRAIN		SP SQ FT	STATIC PRESSURE SQUARE FEET		POTABLE HOT WATER
REDUCER, ECCENTRIC STRAIGHT CROWN	FH FL	FUME HOOD FLOOR	-	SST	STAINLESS STEEL		POTABLE HOT WATER
REDUCER, ECCENTRIC STRAIGHT INVERT	FLEX FOR	FLEXIBLE FUEL OIL RETURN	Т	TCU TEMP	TERMINAL CONTROL UNIT TEMPERATURE TRANSFER GRILLE		VENT
AUTO FLOW BALANCING VALVE	FOS FP	FUEL OIL SUPPLY FIRE PUMP		TG TP TYP	TRANSFER GRILLE TRAP PRIMER TYPICAL		
FLOOR DRAIN W/P-TRAP	FPI FPM	FINS PER INCH FEET PER MINUTE	U		UNDERCUT	PIPE T	AGS
FLOOR CLEANOUT	FT FV	FEET FACE VELOCITY			VENT		
WALL CLEANOUT	G GA			V VAV VD	VENT VARIABLE AIR VOLUME VOLUME DAMPER	XX" CW	POTABLE COLD WATER
BACKFLOW PREVENTER	GIV GND GPM	GRAVITY INTAKE VENTILATOR GROUND GALLONS PER MINUTE		VEL VERT	VELOCITY VERTICAL	XX" HW	POTABLE HOT WATER
LUBRICATED PLUG COCK	GRV	GRAVITY RELIEF VENTILATOR		VFD VSD	VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE	XX" HWR	POTABLE HOT WATER RETURN
HOSE BIBB W/VACUUM BREAKER	H HB HORIZ	HOSE BIBB HORIZONTAL		VTR	VENT THRU ROOF	XX" V	VENT
CAPPED END	HORIZ HP HTG	HORIZONTAL HORSE POWER/HEAT PUMP HEATING	W	W/ W/O	WITH WITHOUT	XX" CA	COMPRESSED AIR
SIDEWALL SPRINKLER HEAD		HUMIDISTAT HOT WATER SUPPLY		WCO WC	WALL CLEANOUT WATER COLUMN	XX" SS	SANITARY SEWER
PENDENT SPRINKLER HEAD	HWB	HOT WATER BOILER HOT WATER PUMP		WH WHA	WALL HYDRANT WATER HAMMER ARRESTORS	XX" OW	OIL\WASTE WATER
UPRIGHT SPRINKLER HEAD	HWR	HOT WATER RETURN		WR WTR	WATER RISER WATER	XX" G	NATURAL GAS
SIAMESE FIRE DEPARTMENT CONNECTION	I ID IN	INSIDE DIAMETER INCHES				XX" VTR	VENT THROUGH ROOF
	INV EL	INVERT ELEVATION					
ALARM CHECK VALVE							

DELUGE VALVE

PIPE SWAY BRACING PIPE ANCHOR SUPPORT

BALANCING VALVE

### L NOTES

SANITARY SEWER GENERAL NOTES

1. PROVIDE CLEANOUTS AT LOCATIONS AND WITH CLEARANCES AS REQUIRED BY THE CODE NOT EXCEEDING 50 FEET IN HORIZONTAL RUNS AT EACH CHANGE OF DIRECTION, VERTICAL OR HORIZONTAL, GREATER THAN 45°, AT THE BASE OF EACH WASTE OR VENT STACK 5 FEET AFF. PROVIDE WALL CLEANOUTS IN LIEU OF FLOOR CLEANOUTS WHEREVER POSSIBLE. ALL INTERIOR CLEANOUTS SHALL BE ACCESSIBLE FROM WALLS OR FLOORS.

2. THE FLOOR DRAIN IN TOILETS AND MECHANICAL ROOMS SHALL BE PROVIDED WITH BACKWATER VALVES.

3. MAINTAIN MINIMUM OF 10 FEET CLEARANCE BETWEEN ANY VTR AND OUTSIDE AIR INTAKES. WHERE HORIZONTAL CLEARANCE CANNOT BE PROVIDED, EXTEND VENTS A MIN OF 24" ABOVE EACH OUTSIDE AIR INTAKE.

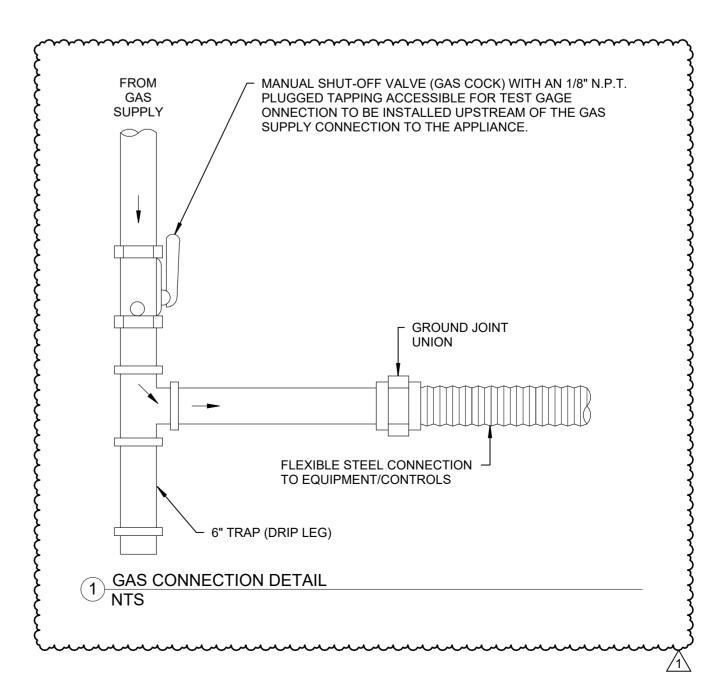
4. VTR'S ROOF PENETRATIONS, WATER PROOFING AND FLASHINGS SHALL BE PROVIDED BY ROOF CONTRACTOR. 5. ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. TEST ALL SEWER AND VENT SYSTEMS IN

PRESENCE OF OWNER'S REPRESENTATIVE. 6. INVERT ELEVATION SHOWN BASED ON 100.0 FT. FF ELEVATION, REFER TO CIVIL DRAWINGS FOR ACTUAL

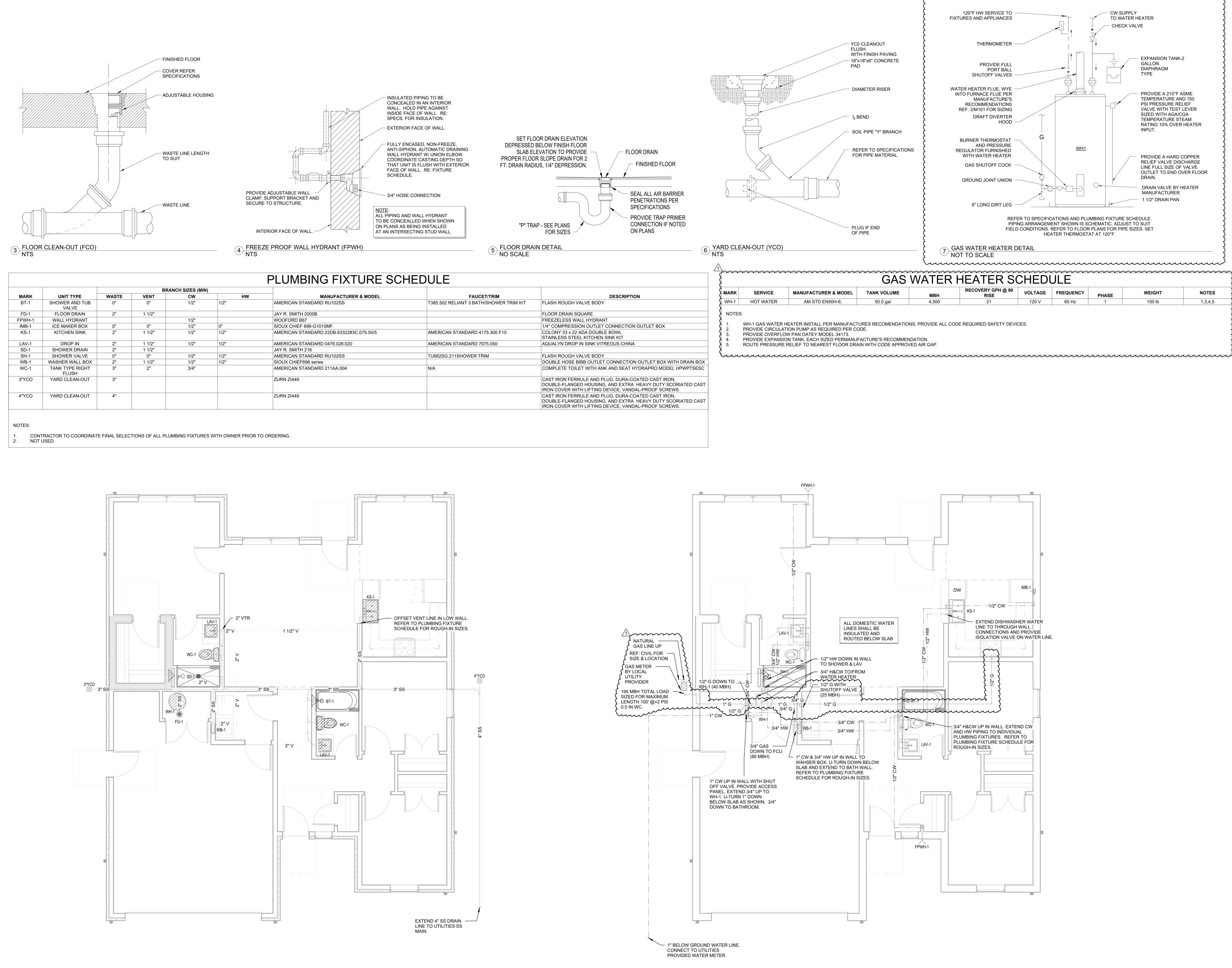
7. SEWER PIPE SHALL BE INSTALLED NO LESS THAN 6" BELOW THE FROST LINE.

ELEVATIONS.

NOTE: THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET. THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

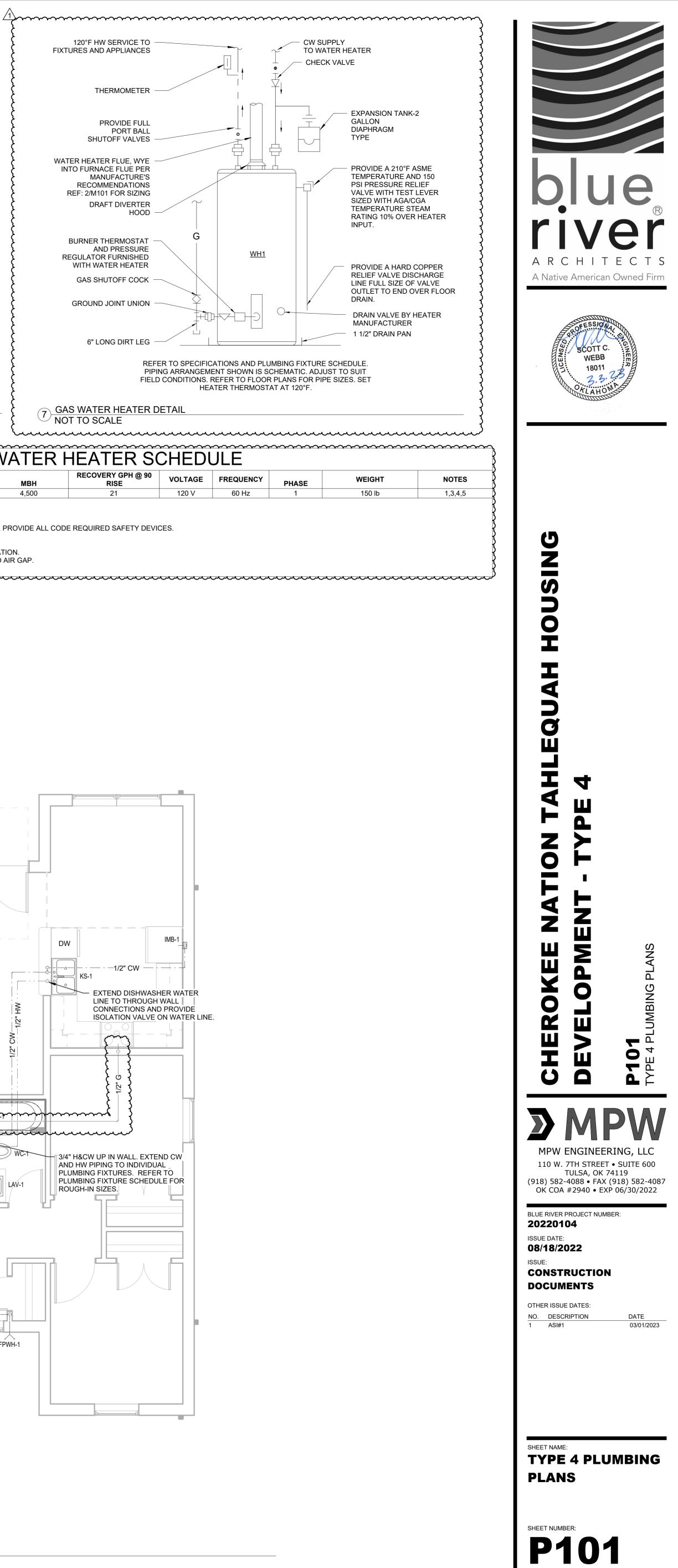






R & MODEL	FAUCET/TRIM	DESCRIPTION
	T385.502 RELIANT 3 BATH/SHOWER TRIM KIT	FLASH ROUGH VALVE BODY
		FLOOR DRAIN SQUARE
		FREEZELESS WALL HYDRANT
		1/4" COMPRESSION OUTLET CONNECTION OUTLET BOX
0.075.50/5	AMERICAN STANDARD 4175.300.F15	COLONY 33 x 22 ADA DOUBLE BOWL STAINLESS STEEL KITCHEN SINK KIT
	AMERICAN STANDARD 7075.050	AQUALYN DROP IN SINK VITREOUS CHINA
	TU662SG.211SHOWER TRIM	FLASH ROUGH VALVE BODY
		DOUBLE HOSE BIBB OUTLET CONNECTION OUTLET BOX WITH DRAIN BOX
	N/A	COMPLETE TOILET WITH ANK AND SEAT HYDRAPRO MODEL HPWPTSESC
		CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORIATED CAST IRON COVER WITH LIFTING DEVICE, VANDAL-PROOF SCREWS.
		CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORIATED CAST IRON COVER WITH LIFTING DEVICE, VANDAL-PROOF SCREWS.

GAS WATER HEATER SCHEDULE											
MANUFACTURER & MODEL	TANK VOLUME	МВН	RECOVERY GPH @ 90 RISE	VOLTAGE	FREQUENCY	PHASE	WEIGHT	NOTE			
AM STD EN50H-6,	50.0 gal	4,500	21	120 V	60 Hz	1	150 lb	1,3,4,5			



© 2022 COPYRIGHT BLUE RIVER ARCHITECTS, LLC