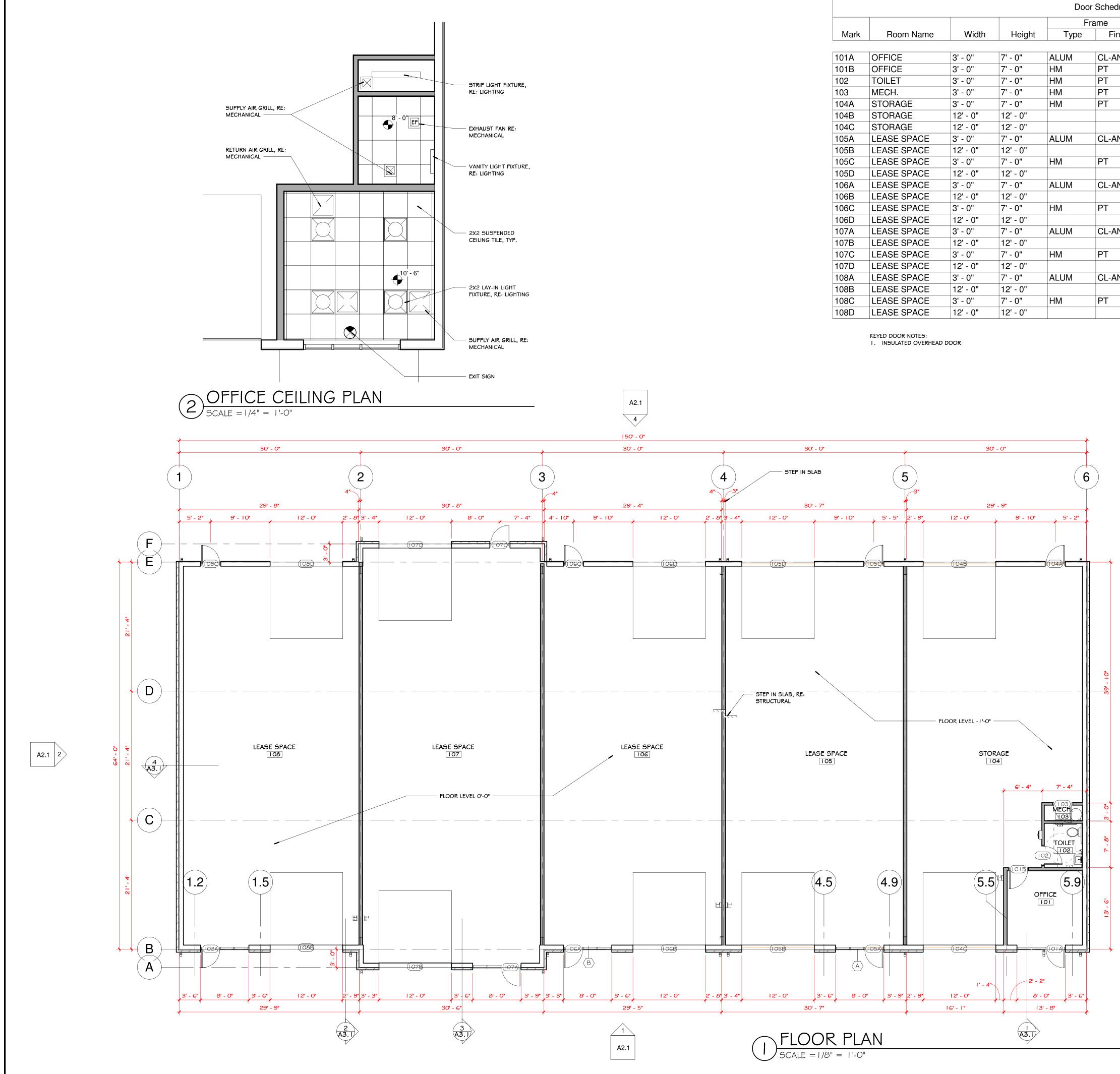


<u>BUILDING</u>	<u>CODE:</u>	2012 ARKANSAS FIRE PREVENTION C (2012 IBC WITH AMENDMENTS) 2017 NATIONAL ELECTRICAL CODE 2006 ARKANSAS PLUMBING CODE 2006 ARKANSAS STATE FUEL & GAS (2010 ARKANSAS MECHANICAL CODE 2011 ARKANSAS ENERGY CODE 2009 ANSI A-117.1		SEAL
OCCUPAN	<mark>ICY</mark> (Cha	pter 3 Use and Occupancy)	B-BUSINESS	
	ISTRUCTIC	DN:	IIIB - NOT SPRINKLERED	
ST IN EX IN	KTERIOR N	EARING WALLS ON-BEARING WALLS DN-BEARING WALLS	NON-COMBUSTIBLE- 0 HR COMBUSTIBLE- 0 HR NON-COMBUSTIBLE- 0 HR COMBUSTIBLE- 0 HR COMBUSTIBLE- 0 HR	
	ARATION D	ISTANCES:	. 201	
EA	AST DUTH		>30' >30' 20'	
	EST		>30'	
			10.000-6	
AL	LOWABLE	SF PER FLOOR. <i>(Table 503)</i> = # FLOORS <i>(Table 503)</i> = ASE DUE TO FRONTAGE <i>(506.1)</i>	19,000sf 3 FLOORS	
lf=	[F/P -0.25]		N/A	
(or	ne story), Is		N/A 19,000 sf	
			9,784 sf	
		<u>:</u> <i>(Table 1004.1.2)</i> , 100 GROSS = 9,784 sf / 100 sf=	98 PEOPLE	
(10	005.3.1) ST	<u>SIZING</u> : (1005) AIRWAYS #PEOPLE x .3" PEOPLE x .2" / PEBSON –		
	005.3.2) 98 DOORS x 3	PEOPLE x .2" / PERSON = 32" =	19.6" REQUIRED 320" PROVIDED	
TRAVEL D B-	DISTANCE A BUSINESS	<u>ALLOWED:</u> <i>(Table 1016.2)</i> , NOT SPRINKLERED	200'	
	S	heet Index		
#		Sheet Name		
A0.0	COVER	Sheet Name SHEET		
	COVER FLOOR	Sheet Name SHEET		hedule
A0.0 A1.1 A1.2 A2.1	COVER FLOOR ROOF P ELEVAT	Sheet Name SHEET PLAN LAN & SCHEDULES TONS		on Schedule
A0.0 A1.1 A1.2 A2.1 A3.1	COVER FLOOR ROOF P ELEVAT WALL S	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS		
A0.0 A1.1 A1.2 A2.1 A3.1 S0	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS	Sheet Name SHEET PLAN PLAN & SCHEDULES IONS ECTIONS FURAL NOTES AND S		Revision Schedule
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/	Sheet Name SHEET PLAN LAN & SCHEDULES TONS ECTIONS FURAL NOTES AND S ATION PLAN		
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/	Sheet Name SHEET PLAN PLAN & SCHEDULES IONS ECTIONS FURAL NOTES AND S		
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI	Sheet Name SHEET PLAN PLAN & SCHEDULES TONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS		
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M700	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI	Sheet Name SHEET PLAN PLAN & SCHEDULES TONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS		
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI PLUMBI	Sheet Name SHEET PLAN LAN & SCHEDULES TONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE		
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M700 P000 P100 P400	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI PLUMBI PLUMBI ENLARC	Sheet Name SHEET PLAN LAN & SCHEDULES TONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN GED PLUMBING PLAN		
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 M700 P000 P100 P100 P400 P500	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI PLUMBI PLUMBI ENLARC PLUMBI	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN AED PLUMBING PLAN NG DETAILS		. Revision 9
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P400 P500 P600	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI	Sheet Name SHEET PLAN LAN & SCHEDULES TONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN GED PLUMBING PLAN		. Revision 9
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN AED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES		BLDG. Revision 8
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P400 P500 P500 P500 P500 P500 E000 E100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN	Sheet Name SHEET PLAN LAN & SCHEDULES TONS ECTIONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN GED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN		BLDG. Revision 8
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M700 P000 P100 P100 P100 P100 P100 P100 P	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER	Sheet Name SHEET PLAN LAN & SCHEDULES TONS ECTIONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN GED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN		5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDER PANEL S	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN AED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE		5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDER PANEL S	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS ECTIONS IURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN GED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN PLAN GROUND POWER PLAN		5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDER PANEL S	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN AED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE		5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDER PANEL S	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN AED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE		5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M700 P100 P100 P100 P100 P400 P500 P100 P500 P100 E101 E000 E101 E101 E400 E101 E400 E101 E400	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDER DANEL S ELECTF	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS IURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN GED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS ICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE IICAL SPECS		E WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M700 P100 P100 P100 P100 P400 P500 P100 P500 P100 E101 E000 E101 E101 E400 E101 E400 E101 E400 E101 E400 E101 E400	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDER UNDER DANEL S ELECTF	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS IURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN SED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS SICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE SICAL SPECS IG AL SPECS IG	EXTENT SPECIFICALLY REQUESTED BY IE ARCHITECT SHALL NOT BE LIABLE TO	ICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 P000 P100 P100 P100 P100 P400 P500 P100 P500 P100 E101 E400 E101 E101 E400 E101 E101 E	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDERG PANEL S ELECTF	Sheet Name SHEET PLAN SHEET PLAN SHEET PLAN SHEET PLAN SHEET PLAN SHEET SHEET SHEAT SHEET SHEAT SHEET SHEAT	EXTENT SPECIFICALLY REQUESTED BY IE ARCHITECT SHALL NOT BE LIABLE TO FOR OR THROUGH THE CLIENT OR THE ION DOCUMENTS, WHICH ARE, OR WHICH	ICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 P000 P100 P100 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDERG PANEL S ELECTF	Sheet Name SHEET PLAN LAN & SCHEDULES IONS ECTIONS IURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN BED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS ICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE ICAL SPECS ICAL	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE TION DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE HALL NOT BE LIABLE TO THE CLIENT, TO	W OFFICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ENLARC PLUMBI ELECTF LIGHTIN POWER UNDERC PANEL S ELECTF	Sheet Name SHEET PLAN LAN & SCHEDULES ONS ECTIONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN SED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE RICAL SPECS IG PLAN PLAN SCHEDULE RICAL SPECS IG PLAN PLAN SCHEDULE RICAL SPECS IG PLAN RICAL SPECS RICAL SPEC	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE "ION DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE HALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR D/OR THE OWNER SHALL HOLD	W OFFICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 P000 P100 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDERC PANEL S ELECTF	Sheet Name SHEET PLAN *LAN & SCHEDULES TONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN ÀED PLUMBING PLAN NG DETAILS NG SPECS RICAL NOTES IG PLAN ÀED PLUMBING PLAN NG SPECS RICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE RICAL SPECS IG PLAN PLAN GROUND POWER PLAN SCHEDULE NICAL SPECS INDERSTOOD THAT THE ARCHITECT SH/ SERVICES, UNLESS, AND ONLY TO THE I DITIONAL SERVICES. ACCORDINGLY, THE SCHEDULE NORS OR OMISSIONS IN THE CONSTRUCT INDERSTOOD THAT THE ARCHITECT SH/ SERVICES, UNLESS, AND ONLY TO THE I DITIONAL SERVICES. ACCORDINGLY, T	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE TON DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE HALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR WOR THE OWNER SHALL HOLD M AND AGAINST ANY AND ALL CLAIMS OR RE DISCOVERED OR UPON THE EXERCISE	W OFFICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M700 P000 P100 P100 P100 P100 P100 P100 P	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI ENLARC PLUMBI ELECTP LIGHTIN POWER UNDERC PANEL S ELECTP	Sheet Name SHEET PLAN *LAN & SCHEDULES TONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN SED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS ICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE IICAL SPECS IG PLAN PLAN BROUND POWER PLAN SCHEDULE IICAL SPECS IGAL NOTES IG PLAN PLAN SCHEDULE IICAL SPECS INDERSTOOD THAT THE ARCHITECT SH/ SCHEDULE IDTIONAL SERVICES. ACCORDINGLY, THE SERVICES, UNLESS, AND ONLY TO THE IDITIONAL SERVICES. ACCORDINGLY, THE SECHEDULE NDERSTOOD THAT THE ARCHITECT SH/ SERVICES, UNLESS, A	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE TON DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE IALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR D/OR THE OWNER SHALL HOLD DM AND AGAINST ANY AND ALL CLAIMS OR RE DISCOVERED OR UPON THE EXERCISE DBY THE OWNER OR CONTRACTOR, AND ION FOR REVIEW AND ACTION BEFORE	NEW OFFICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M700 P000 P100 P100 P100 P100 P100 P100 P	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDERC PANEL S ELECTF	Sheet Name SHEET PLAN "LAN & SCHEDULES TONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL SCHEDULE NICAL SCHEDULE NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN AED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN PLAN BROUND POWER PLAN SCHEDULE NICAL SPECS IG PLAN PLAN BROUND POWER PLAN SCHEDULE IICAL SPECS IGAL SPECS IGAL SPECS SCHEDULE IICAL SPECS INDERSTOOD THAT THE ARCHITECT SH/SERVICES, UNLESS, AND ONLY TO THE I DITIONAL SERVICES. ACCORDINGLY, THE SCHEDULE IICAL SPECS SCHEDULE IICAL SPECS NDERSTOOD THAT THE ARCHITECT SH/SERVICES, UNLESS, AND ONLY TO THE I	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE 'ION DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE IALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR D/OR THE OWNER SHALL HOLD DM AND AGAINST ANY AND ALL CLAIMS OR RE DISCOVERED OR UPON THE EXERCISE D BY THE OWNER OR CONTRACTOR, AND ION FOR REVIEW AND ACTION BEFORE S IN CONSTRUCTION AND/OR DESIGN NOT R ERRORS OR OMISSIONS OF THE	NEW OFFICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M700 P000 P100 P100 P100 P100 P100 P100 P	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDERC PANEL S ELECTF	Sheet Name SHEET PLAN "LAN & SCHEDULES TONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN SED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS IICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE NICAL SPECS IG PLAN PLAN GROUND POWER PLAN SCHEDULE NICAL SPECS IGAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE NICAL SPECS NOR ONISSIONS IN THE CONSTRUCT SCHEDULE NORS OR OMISSIONS IN THE CONSTRUCT SCHEDULE NORS OR OMISSIONS IN THE CONSTRUCT NOR COST OR DAMAGES WHICH A) FWORK, LIKE	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE 'ION DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE IALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR D/OR THE OWNER SHALL HOLD DM AND AGAINST ANY AND ALL CLAIMS OR RE DISCOVERED OR UPON THE EXERCISE D BY THE OWNER OR CONTRACTOR, AND ION FOR REVIEW AND ACTION BEFORE S IN CONSTRUCTION AND/OR DESIGN NOT R ERRORS OR OMISSIONS OF THE	EW OFFICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 M700 P000 P100 P100 P100 P100 P400 P500 P100 P500 P100 E100 E101 E101 E101 E101 E101 E1	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI PLUMBI ELECTF LIGHTIN POWER UNDERC PLUMBI ELECTF LIGHTIN POWER UNDERC PANEL S ELECTF	Sheet Name SHEET PLAN 'LAN & SCHEDULES 'IONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL SCHEDULE NICAL SCHEDULE NICAL SCHEDULE NICAL SPECS NG PLAN SED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN *PLAN GROUND POWER PLAN SCHEDULE NICAL SPECS IG PLAN *PLAN GROUND POWER PLAN SCHEDULE NICAL SPECS IGAL SPECS IGAL SPECS IGAL SPECS IGAL SPECS INDERSTOOD THAT THE ARCHITECT SH/SERVICES, UNLESS, AND ONLY TO THE IDITIONAL SERVICES. ACCORDINGLY, THE EONSTRUCTION ADE DURIAL SERVICES, UNLESS, AND ONLY TO THE IDITIONAL SERVICES, UNLESS, AND ONLY TO THE IDITIONAL SERVICES. ACCORDINGLY, THE EONSERVICES OF REASONABLE CARE SHOULD HAF PWORK, LIKEWISE, THE ARCHITECT SH/SERVICES OF REASONABLE CARE SHOULD HAF SOMOR CONSTRUCTION MADE DURIAL OF THE ARCHITECT, SHOULD HAF <td>EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE TON DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE HALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR WOR THE OWNER SHALL HOLD M AND AGAINST ANY AND ALL CLAIMS OR RE DISCOVERED OR UPON THE EXERCISE DBY THE OWNER OR CONTRACTOR, AND ION FOR REVIEW AND ACTION BEFORE S IN CONSTRUCTION AND/OR DESIGN NOT R ERRORS OR OMISSIONS OF THE NT AND/OR OWNER.</td> <td>NEW OFFICE WAREHOUSE 5-BAY BLDG.</td>	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE TON DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE HALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR WOR THE OWNER SHALL HOLD M AND AGAINST ANY AND ALL CLAIMS OR RE DISCOVERED OR UPON THE EXERCISE DBY THE OWNER OR CONTRACTOR, AND ION FOR REVIEW AND ACTION BEFORE S IN CONSTRUCTION AND/OR DESIGN NOT R ERRORS OR OMISSIONS OF THE NT AND/OR OWNER.	NEW OFFICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 M100 P000 P100 P100 P100	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI ENLARC PLUMBI ELECTF LIGHTIN POWER UNDERC PLUMBI ELECTF LIGHTIN POWER UNDERC PANEL S ELECTF	Sheet Name SHEET PLAN 'LAN & SCHEDULES 'IONS ECTIONS FURAL NOTES AND S ATION PLAN ATION DETAILS NICAL LEGEND NICAL SCHEDULE NICAL SCHEDULE NICAL SCHEDULE NICAL SPECS NG NOTES NG PLAN GED PLUMBING PLAN NG DETAILS NG RISERS NG SPECS RICAL NOTES IG PLAN PLAN GROUND POWER PLAN SCHEDULE NICAL SPECS IG PLAN PLAN GROUND POWER PLAN SCHEDULE NICAL SPECS IGAL SPECS INDERSTOOD THAT THE ARCHITECT SH/ SCHEDULE NICAL SPECS NORS OR OMISSIONS IN THE CONSTRUCT SCHEDULE NORS OR OMISSIONS IN THE CONSTRUCT SCOR OMISSIONS IN THE CONSTRUCT SEGN OR CONSTRUCTION MADE DURI AL OF THE ARCHITECT. THE CLIENT AND	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE ION DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE IALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR O/OR THE OWNER SHALL HOLD M AND AGAINST ANY AND ALL CLAIMS OR RE DISCOVERED OR UPON THE EXERCISE OBY THE OWNER OR CONTRACTOR, AND ION FOR REVIEW AND ACTION BEFORE S IN CONSTRUCTION AND/OR DESIGN NOT R ERRORS OR OMISSIONS OF THE NT AND/OR OWNER. NS HAVE BEEN PREPARED BY ME, OR HE BEST OF MY KNOWLEDGE THESE ND IN COMPLIANCE WITH THE	NEW OFFICE WAREHOUSE 5-BAY BLDG.
A0.0 A1.1 A1.2 A2.1 A3.1 S0 S1 S2 M000 M100 M100 M700 P000 P100 P100 P100 P100 P100 P100 P	COVER FLOOR ROOF P ELEVAT WALL S STRUCT DETAILS FOUND/ FOUND/ MECHAI MECHAI MECHAI MECHAI PLUMBI PLUMBI PLUMBI PLUMBI ENLARC PLUMBI ELECTF LIGHTIN POWER UNDERC PLUMBI ELECTF LIGHTIN POWER UNDERC PANEL S ELECTF	Sheet Name SHEET PLAN 'LAN & SCHEDULES 'IONS ECTIONS TURAL NOTES AND S ATION PLAN ATION DETAILS NICAL SCHEDULE NICAL SCHEDULE NICAL SCHEDULE NICAL SPECS NG PLAN GED PLUMBING PLAN NG DETAILS NG SPECS IICAL NOTES NG SPECS IG PLAN PLAN GROUND POWER PLAN SCHEDULE IICAL SPECS IG PLAN PLAN GROUND POWER PLAN SCHEDULE IICAL SPECS IGAL SPECS IGAL SPECS IGCAL SPECS IDTIONAL SERVICES, AND ONLY TO THE I DITIONAL SERVICES, AND ONLY TO THE I DITIONAL SERVICES, AND ONLY TO THE I NGROWN ON TO ANY PARTY WORKING FOR OR THROUD ORN OR ONISSIONS IN THE CONSTRUCTION MADE DURI AL OF THE ARCHITECT. THE ARCHITECT SHOULD HAVE BEEN DISCOVERED SIGN OR CONSTRUCTION MADE DURI	EXTENT SPECIFICALLY REQUESTED BY HE ARCHITECT SHALL NOT BE LIABLE TO & FOR OR THROUGH THE CLIENT OR THE 'ION DOCUMENTS, WHICH ARE, OR WHICH VE BEEN, DISCOVERED DURING THE IALL NOT BE LIABLE TO THE CLIENT, TO JGH THE CLIENT OR THE OWNER, FOR NG CONSTRUCTION WITH-OUT THE PRIOR O/OR THE OWNER SHALL HOLD DM AND AGAINST ANY AND ALL CLAIMS OR RE DISCOVERED OR UPON THE EXERCISE OBY THE OWNER OR CONTRACTOR, AND ION FOR REVIEW AND ACTION BEFORE S IN CONSTRUCTION AND/OR DESIGN NOT R ERRORS OR OMISSIONS OF THE NT AND/OR OWNER.	NEW OFFICE WAREHOUSE 5-BAY BLDG.

FAYETTEVILLE, ARKANSAS 444.6066 FAX: 479.444.1445 ARCHITECTURE BOX 748 PH: 479. **BMIT SFT**

Revision Schedule	Description		
Rev	Date		
	Rev.# Date		
NEW OFFICE WAREHOUSE 5-BAY BLDG.			MTNWA INVESTMENTS, LLC 1457 E. ROBINSON AVE. SPRINGDALE, AR 72764
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				Doo	r Schedule					
				Fi	rame	[Door			
Mark	Room Name	Width	Height	Туре	Finish	Туре	Finish	Glazing	Comments	
101A	OFFICE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
101B	OFFICE	3' - 0"	7' - 0"	HM	PT	SCWD	ST			
102	TOILET	3' - 0"	7' - 0"	HM	PT	SCWD	ST			
103	MECH.	3' - 0"	7' - 0"	HM	PT	SCWD	ST			
104A	STORAGE	3' - 0"	7' - 0"	HM	PT	HM	PT			
104B	STORAGE	12' - 0"	12' - 0"						1	
104C	STORAGE	12' - 0"	12' - 0"						1	
105A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
105B	LEASE SPACE	12' - 0"	12' - 0"						1	
105C	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
105D	LEASE SPACE	12' - 0"	12' - 0"						1	
106A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
106B	LEASE SPACE	12' - 0"	12' - 0"						1	
106C	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
106D	LEASE SPACE	12' - 0"	12' - 0"						1	
107A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
107B	LEASE SPACE	12' - 0"	12' - 0"							
107C	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
107D	LEASE SPACE	12' - 0"	12' - 0"							
108A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
108B	LEASE SPACE	12' - 0"	12' - 0"						1	
108C	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
108D	LEASE SPACE	12' - 0"	12' - 0"						1	

GENERAL NOTES

I. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY AND ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

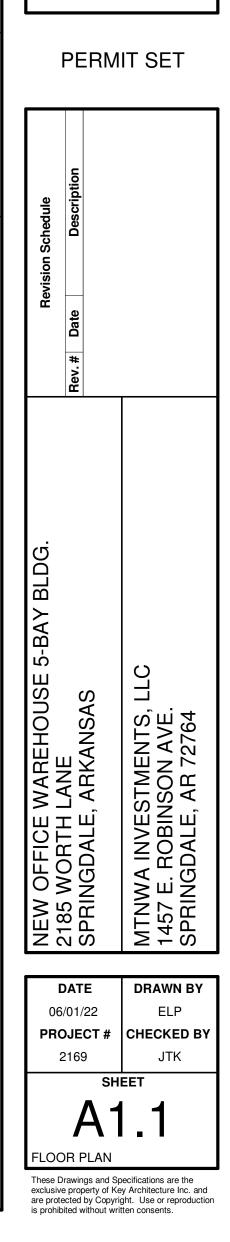
- 2. ALL WORK AND ALL FINISHES, INCLUDING TYPE, COLOR AND LOCATION, SHALL BE COORDINATED WITH THE OWNER. 3. ALL DIMENSIONS ARE TO CENTERLINE OF COLUMNS, FACE OF BUILDING LINE OR STUD, TYPICAL, UNLESS NOTED OTHERWISE (U.N.O.). WHEN NOTED AS EXISTING THE DIMENSIONS SHOWN ARE TO FACE OF EXISTING FINISH PRIOR TO START OF CONSTRUCTION.
- 4. VERIFY ALL DIMENSIONS, DOOR AND WINDOW SIZES AND LOCATIONS PRIOR TO LAYOUT WITH THE OWNER. COORDINATE ALL OWNER PROVIDED EQUIP. 5. ALL DOOR AND WINDOW DIMENSIONS ARE NOMINAL AND MUST BE COORDINATED WITH MANUFACTURES. ROUGH OPENING
- DIMENSIONS ARE TO BE COORDINATED WITH DOOR AND WINDOW SHOP DRAWINGS. 6. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO
- START OF WORK. CONTRACTOR TO NOTIFY ARCHITECT TO ANY DISCREPANCY WITH THE PLANS AND SPECIFICATIONS PRIOR TO BEGINNING WORK. 7. PROVIDE FIRE EXTINGUISHERS PER NFPA-10 AND COORDINATE
- WITH LOCAL BUILDING AND/OR FIRE OFFICIALS. 8. PROVIDE KNOX BOX ON EXTERIOR OF BUILDING, COORDINATE EXACT LOCATION WITH LOCAL BUILDING AND/OR FIRE OFFICIALS. 9. PROVIDE WOOD BLOCKING IN STUD WALLS FOR ANCHORAGE OF GRAB BARS, PAPER HOLDERS, VANITIES, WALL MOUNTED DOOR
- STOPS, SINKS, SHELVING, TELEVISIONS ETC. COORDINATE WITH OWNER PRIOR TO COVER-UP. IO. PROVIDE BATT INSULATION AT ALL EXTERIOR WALLS AND SOUND ATTENUATION BLANKETS AT ALL NEW WALLS AT TOILET AREAS
- UNLESS NOTED OTHERWISE. 11. PROVIDE 1 1/2" RIGID INSULATION FULL HEIGHT AT PERIMETER OF BUILDING STEM WALLS ∉ BASEMENT WALLS, AND FOR 2'-0" HORIZONTAL UNDER SLABS. INSULATION SHALL MEET ALL STATE AND LOCAL ENERGY CODES.
- I 2. TOILET ROOM TO BE PROVIDED WITH FORCED AIR VENTILATION TO THE EXTERIOR. 13. PROVIDE ROOM SIGNAGE AT ALL DOORS AS REQUIRED BY THE
- INTERNATIONAL BUILDING CODE, ANSI A I 17.1, AND THE AMERICANS WITH DISABILITY ACT. COORDINATE WITH OWNER FOR NAMES, NUMBERS, STYLE AND TYPE OF SIGN. ALL SIGNAGE TO HAVE RAISED BRAILLE CHARACTERS AS REQUIRED.

GENERAL DOOR ≰ WINDOW NOTES

- ALL DOORS, WINDOWS AND FRAMES TO BE FINISHED PER OWNER'S REQUIREMENTS.
- ALL DOOR AND WINDOW DIMENSIONS ARE TO THE FINISHED FRAME UNLESS OTHERWISE NOTED. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND VERIFY ROUGH OPENINGS WITH WINDOW MANUFACTURES SHOP DRAWINGS. ALL DOOR AND WINDOW TYPES AND MANUFACTURER TO BE
- DETERMINED BY THE OWNER. ALL HARDWARE TO COMPLY WITH REQUIREMENTS FOR EGRESS AND ACCESSIBILITY. PROVIDE THRESHOLD AT ALL FLOOR FINISH TRANSITIONS,
- TYPICAL U.N.O. VERIFY TYPES AND LOCATIONS WITH THE OWNER. THRESHOLDS SHALL BE NO MORE THAN 1/2" IN HEIGHT AND PROVIDE FOR ACCESSIBLE PASSAGE.
- REFER TO PLAN AND/OR DOOR SCHEDULE FOR DOOR SIZES AND NOTES ON SPECIAL DOOR TYPES. ALL MULTI-USE TOILET ROOMS TO BE PROVIDED SELF-CLOSING

GENERAL FINISH NOTES

- WALL FINISH SHALL BE SMOOTH FINISH, NO TEXTURE, PAINTED,
- UNLESS NOTED OTHERWISE (U.N.O.).
- ALL FINISHES TO BE COORDINATED WITH THE OWNER, INCLUDING TYPE, COLOR AND LOCATION.
- PROVIDE FINISH TOE KICK OR BASE TRIM AT BASE CABINETS FOR CABINET BASE AND WALL BASE AS PER FINISH SCHEDULE OR NOTES. COORDINATE WITH OWNER. PROVIDE CORNER GUARDS PER SPEC AT ALL OUTSIDE SHEET ROCK CORNERS TYPICAL.



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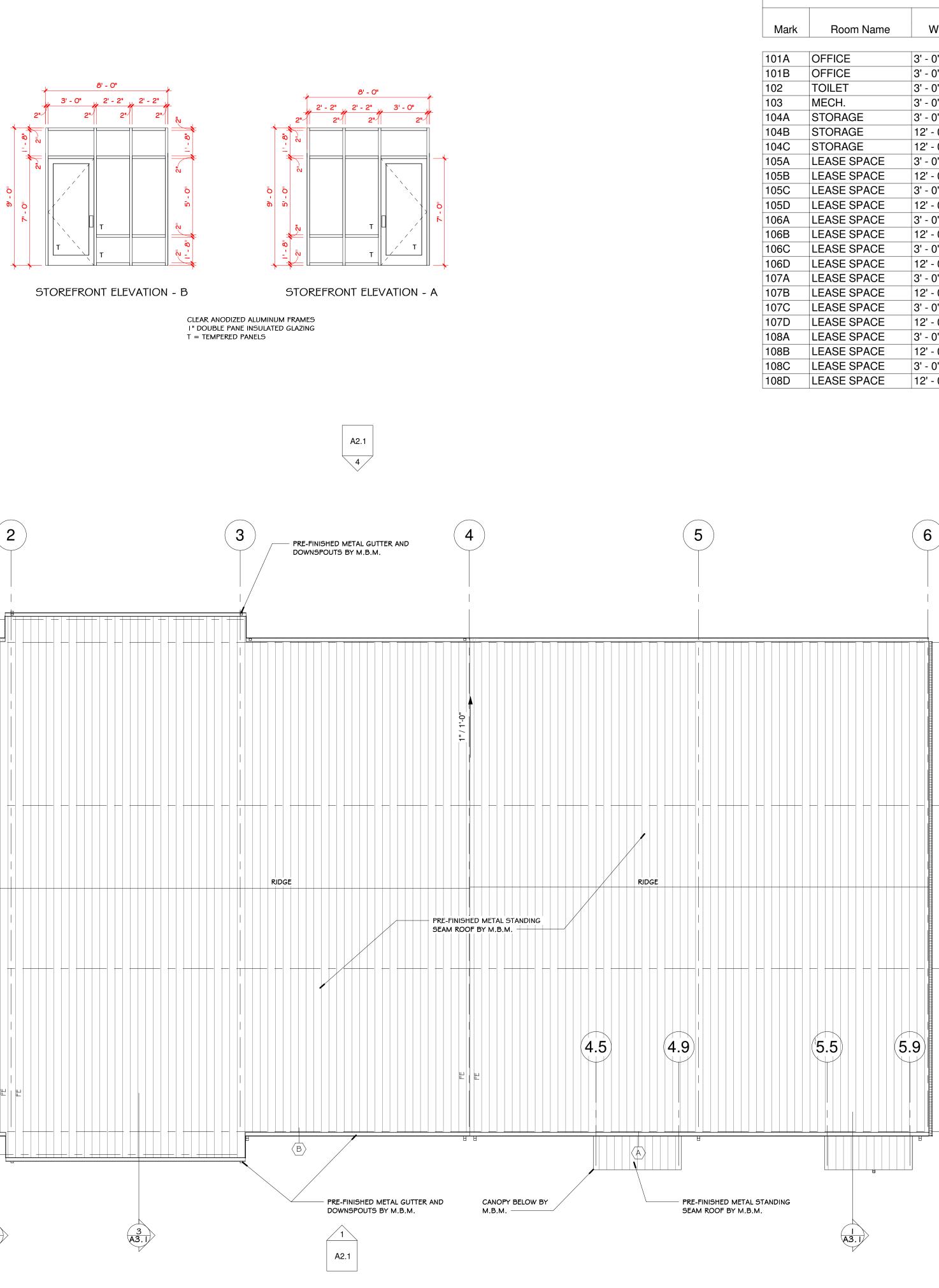
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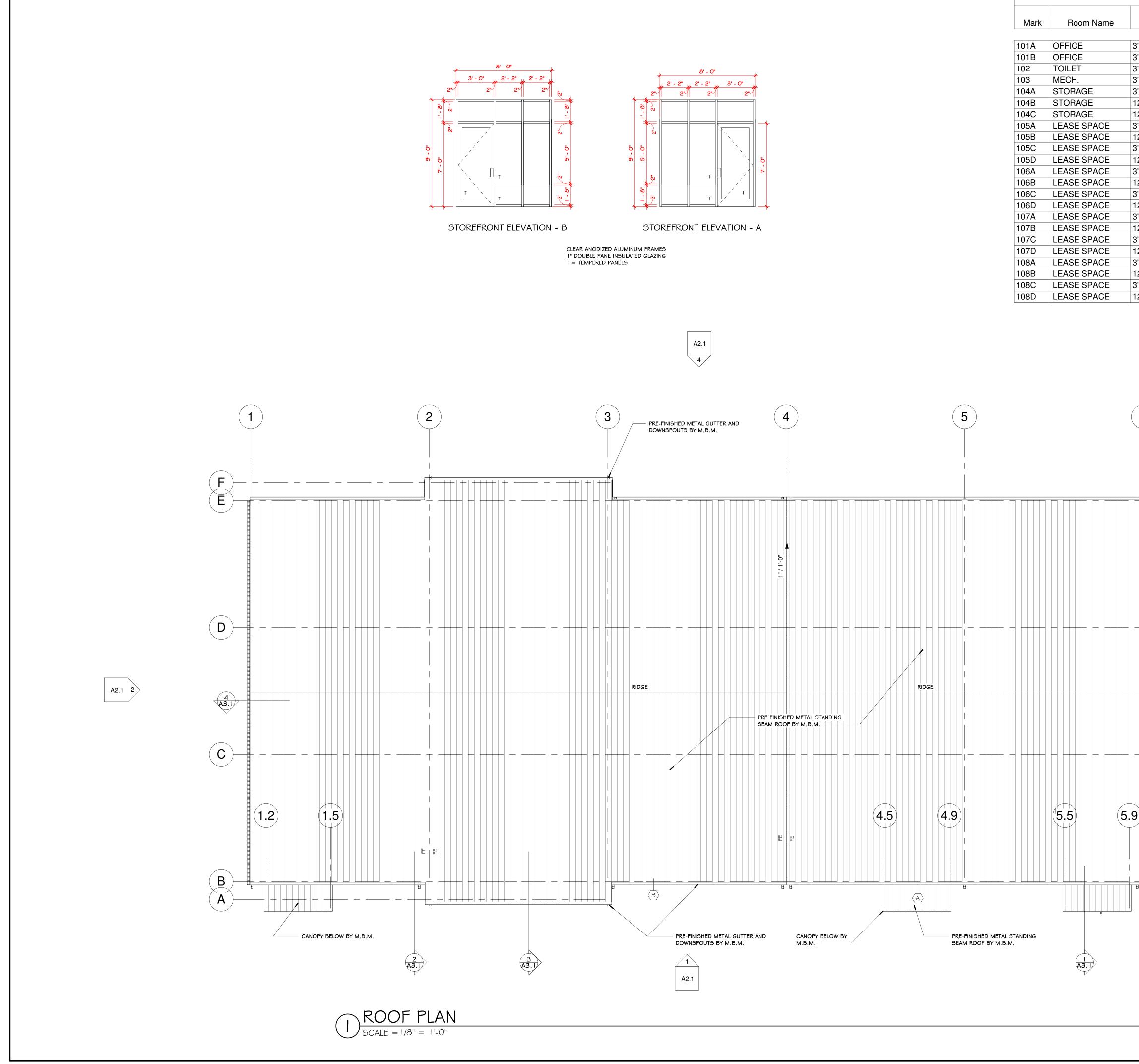
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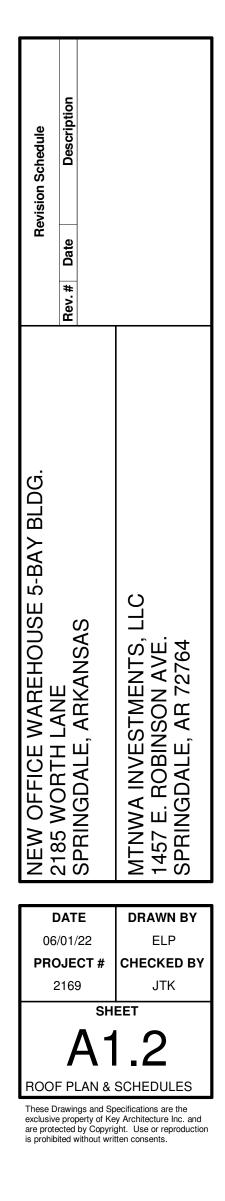




		Doo	r Schedule				
		Fi	Frame		Door		
Width	Height	Туре	Finish	Туре	Finish	Glazing	Comments
						·	
3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP	
3' - 0"	7' - 0"	HM	PT	SCWD	ST		
3' - 0"	7' - 0"	HM	PT	SCWD	ST		
3' - 0"	7' - 0"	HM	PT	SCWD	ST		
3' - 0"	7' - 0"	HM	PT	HM	PT		
2' - 0"	12' - 0"						1
2' - 0"	12' - 0"						1
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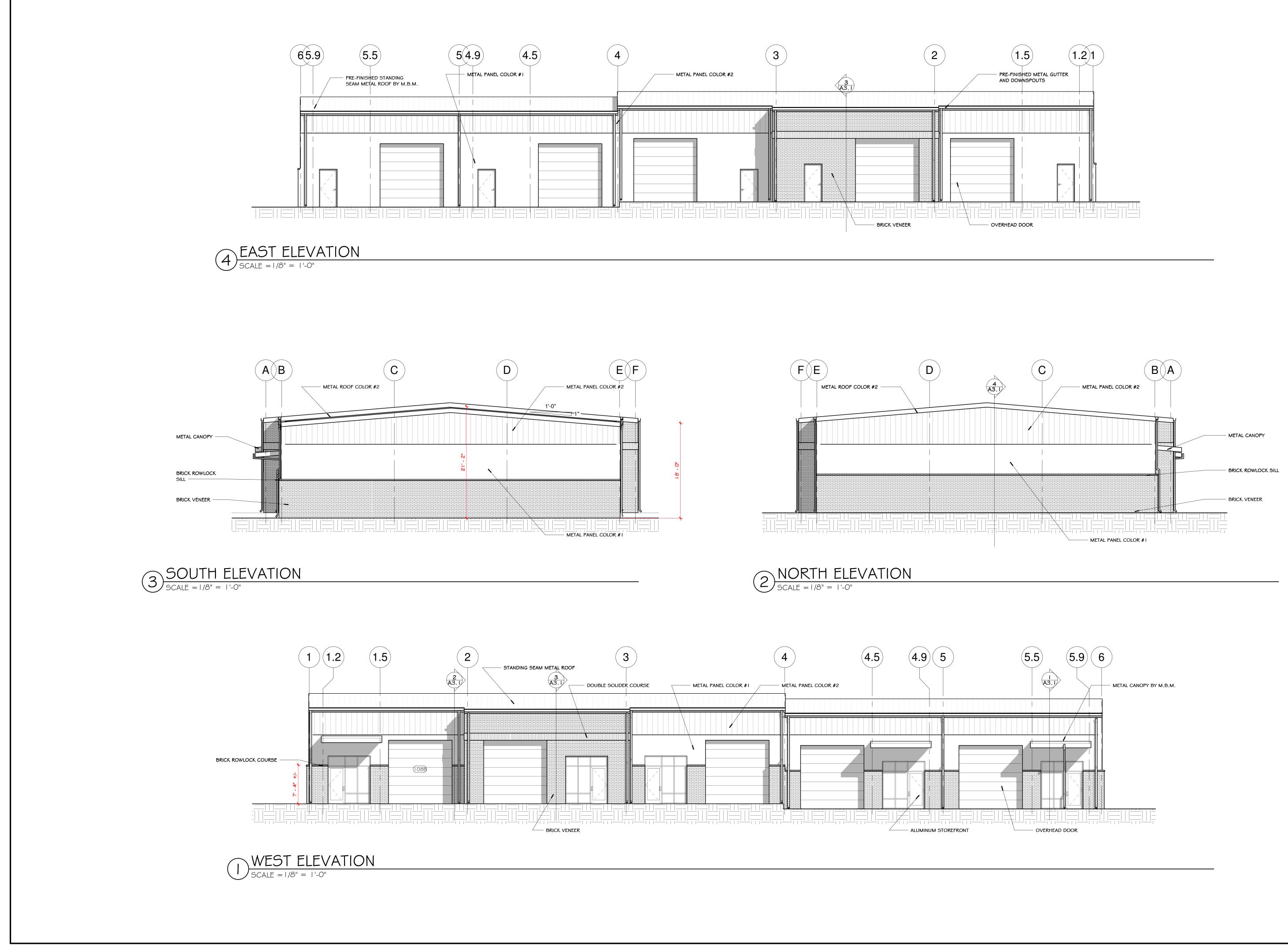


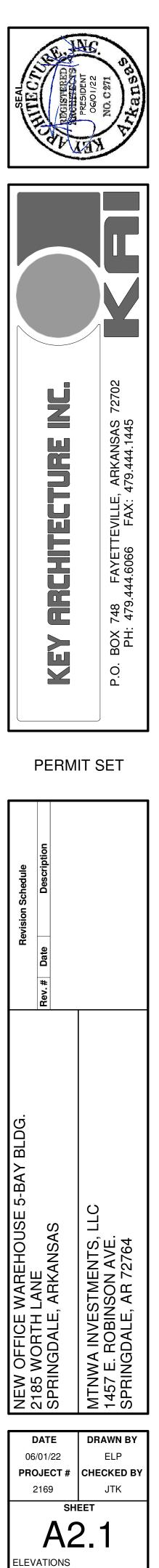
KEYED DOOR NOTES: I. PRE-FINISHED METAL INSULATED SECTIONAL OVERHEAD DOORS

GENERAL DOOR & WINDOW NOTES ALL DOORS, WINDOWS AND FRAMES TO BE FINISHED PER

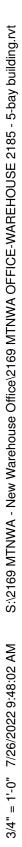
- OWNER'S REQUIREMENTS. ALL DOOR AND WINDOW DIMENSIONS ARE TO THE FINISHED FRAME UNLESS OTHERWISE NOTED. IT IS THE CONTRACTORS
- RESPONSIBILITY TO COORDINATE AND VERIFY ROUGH OPENINGS WITH WINDOW MANUFACTURES SHOP DRAWINGS. ALL DOOR AND WINDOW TYPES AND MANUFACTURER TO BE
- DETERMINED BY THE OWNER. ALL HARDWARE TO COMPLY WITH REQUIREMENTS FOR EGRESS
- AND ACCESSIBILITY.
- PROVIDE THRESHOLD AT ALL FLOOR FINISH TRANSITIONS, TYPICAL U.N.O. VERIFY TYPES AND LOCATIONS WITH THE OWNER. THRESHOLDS SHALL BE NO MORE THAN 1/2" IN HEIGHT
- AND PROVIDE FOR ACCESSIBLE PASSAGE. REFER TO PLAN AND/OR DOOR SCHEDULE FOR DOOR SIZES AND NOTES ON SPECIAL DOOR TYPES.
- ALL MULTI-USE TOILET ROOMS TO BE PROVIDED SELF-CLOSING

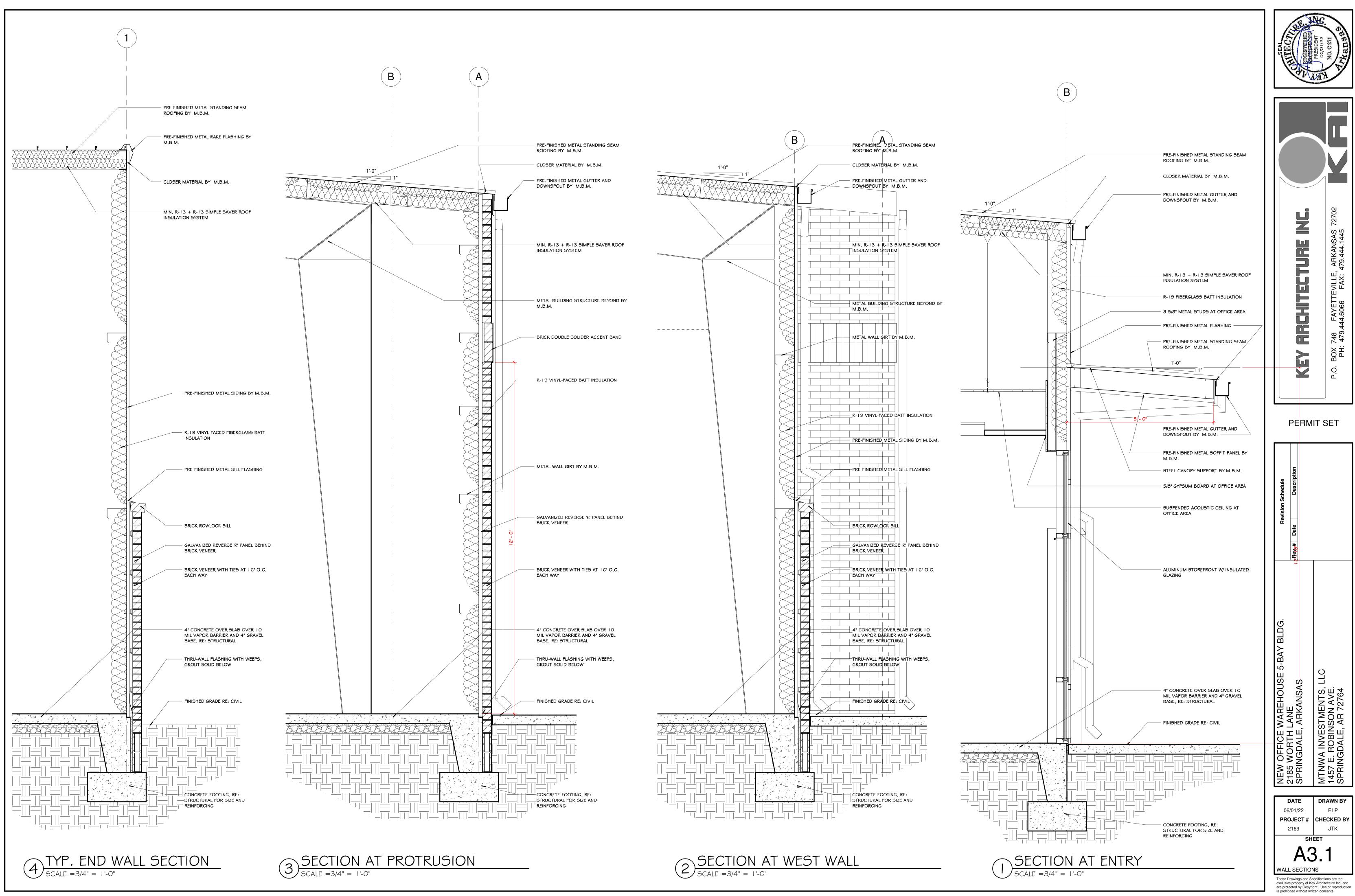
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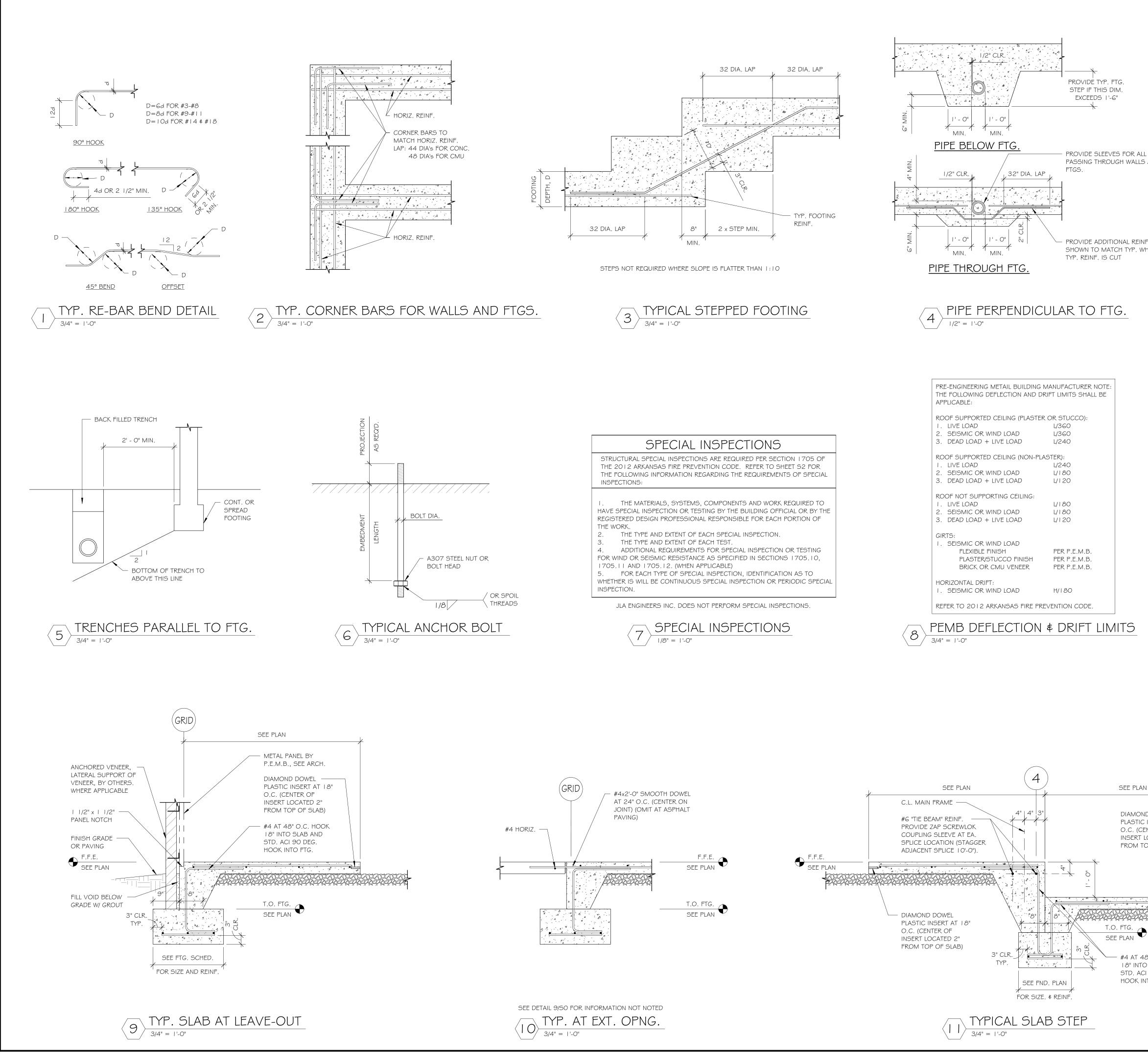


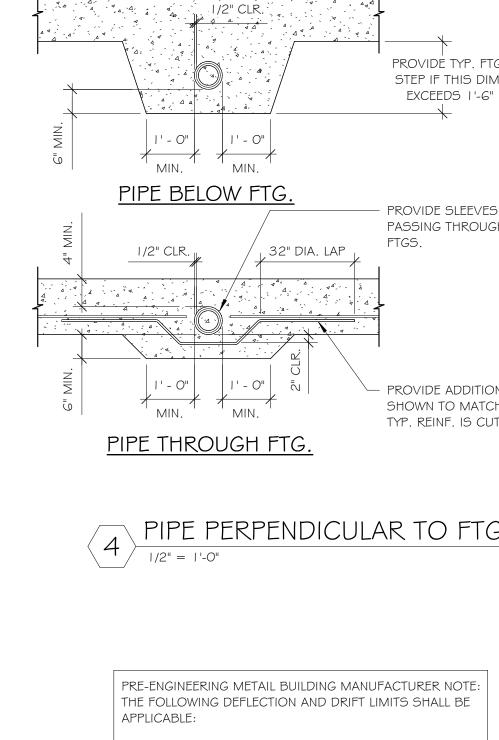
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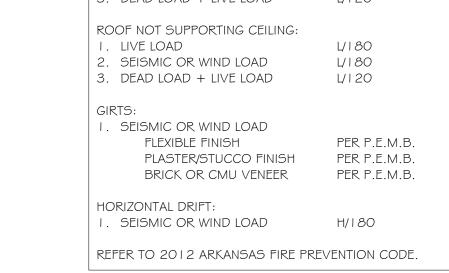














		STRUCTUR	RALN	IOTES	11111111111
	١.	ALL ELEVATIONS ARE GIVEN WITH REFERENCE T			E E R S , I
	2.	ALL STRUCTURAL SELECT FILL SHALL BE APPRO TO 95% OF THE MAXIMUM DRY DENSITY PER S			ATE O ANS FESSION NGINE
	3.	FOOTINGS ARE TO BEAR ON FIRM RED, TAN AN WITH SAND OR STRUCTURAL SELECT FILL. ALL			A R R R
FTG. DIM. -6"	4.	FOOTING ELEVATIONS NOTED ARE FOR BIDDING OBTAIN THE SPECIFIED BEARING CAPACITY AND		ND SHALL BE LOWERED AS NECESSARY TO	164-
- 0	5.	THE FOUNDATION IS DESIGNED FOR A BEARING AND 2000 PSF FOR ISOLATED COLUMN FOOTI TO BOTTOM OF FOOTING AT EXTERIOR CONDIT BY MTA ENGINEERS, INC.	NGS. PROVIDE	24" MIN. FROM FINISH GRADE OR PAVING	
ES FOR ALL PIPES	6.	CONCRETE SHALL HAVE A 28 DAY STRENGTH. FOLLOWS:	MAXIMUM SLI	JMP AND MAXIMUM AGGREGATE SIZE AS	
UGH WALLS AND		INTERIOR SLAB:	3000 PSI - 4"	SLUMP - 1 1/2" AGG. SLUMP - 1" AGG. SLUMP - 1" AGG.	
		ALL CONCRETE EXPOSED TO FREEZE/THAW SHA SHALL CONFORM TO GRADE GO ASTM A-G I 5. MINIMUM, UNLESS NOTED OTHERWISE.			
	7.	VERIFY ALL DIMENSIONS, SLOPES, DEPRESSIO	NS, EMBEDMEN	ITS ETC. BEFORE PLACING CONCRETE.	
TONAL REINF. AS TCH TYP. WHERE	8.	LAP ALL UNDER-SLAB VAPOR BARRIER SHEETS	A MINIMUM OF	6" AT ALL SPLICES.	Y
CUT	9.	PROVIDE SLAB CONTROL JOINTS (CJ) WHERE IN SLAB DEPTH AND SHALL BE ONE OF THE FOLLO		'LAN. C.J.'s SHALL BE APPROX. 1/4 OF THE	
-G.		A. SAWCUT AS SOON AS POS WITHIN I 2 HOURS OF POU B. ZIP CAP TYPE JOINT FORME C. TOOLED JOINTS FOR EXTER	R. R.		1 2
<u>G.</u>		CONST. JOINTS W/ 3/8"x4 1/2" PNA DIAMOND [" O C MAY BE SUBSTITUTED FOR ANY	
		CONTROL JOINT AND SHALL BE USED WHERE IN			
	10	. P.E.M.B. MANUF. SHALL BE RESPONSIBLE FOR VENEER.	. PROVIDING SL	IPPORT (LATERAL AND GRAVITY) FOR ALL	
	11.	. DESIGN CRITERIA CODE: 2012 ARKANSAS FIRE PREVENTION COI	DE		
		ROOF LIVE LOAD: ROOF DEAD LOAD: ROOF COLLATERAL LOAD:		20 PSF PER P.E.M.B. PER P.E.M.B.	KEY ARCHITEC
		SNOW LOAD GROUND SNOW LOAD, Pg: FLAT ROOF SNOW LOAD, Pf.: DESIGN ROOF SNOW LOAD: SNOW EXPOSURE FACTOR, Ce: SNOW LOAD IMPORTANCE FACTOR, Is: THERMAL FACTOR, Ct:		20 PSF 14 PSF PER P.E.M.B. 1.0 1.0 1.0	
		WIND LOAD BASIC WIND SPEED Vult: BASIC WIND SPEED Vasd: WIND IMPORTANCE FACTOR, I: RISK CATEGORY: WIND EXPOSURE CATEGORY: INTERNAL PRESSURE COEFF.: COMPONENTS & CLADDING (ASD):		5 MPH 90 MPH .0 C +0.18, -0.18 PER P.E.M.B.	
		SEISMIC LOAD SEISMIC RISK CATEGORY: SEISMIC IMPORTANCE FACTOR: MAPPED SPECTRAL RESPONSE COEFF.: SPECTRAL RESPONSE COEFF.: SITE CLASS: SEISMIC DESIGN CATEGORY:	:	II I.O $S_5 = 0.170, S_1 = 0.094$ $S_{D5} = 0.136, S_{D1} = 0.106$ C B	Revision Schedule Description
		THIS FOUNDATION DESIGN COMPLIES WITH TH	E ARKANSAS S	EISMIC STANDARDS.	Date
AITS					#
					Rev

SEE PLAN DIAMOND DOWEL PLASTIC INSERT AT 18" O.C. (CENTER OF INSERT LOCATED 2" FROM TOP OF SLAB) F.F.E. SEE PLAN

> #4 AT 48" O.C. HOOK 18" INTO SLAB AND STD. ACI 90 DEG. HOOK INTO FTG.



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PROJECT #

LCG

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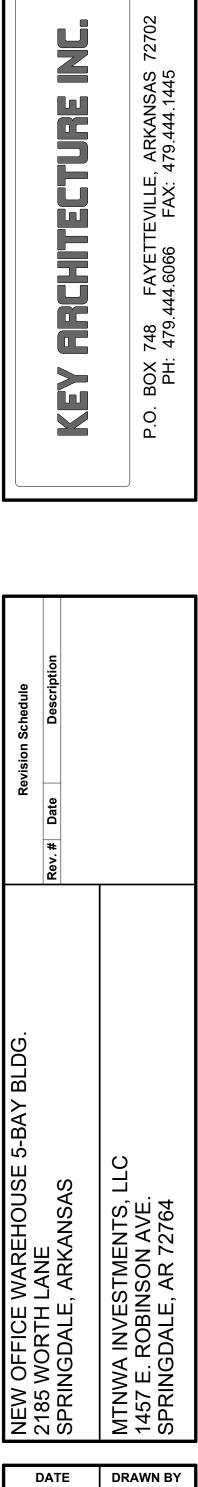
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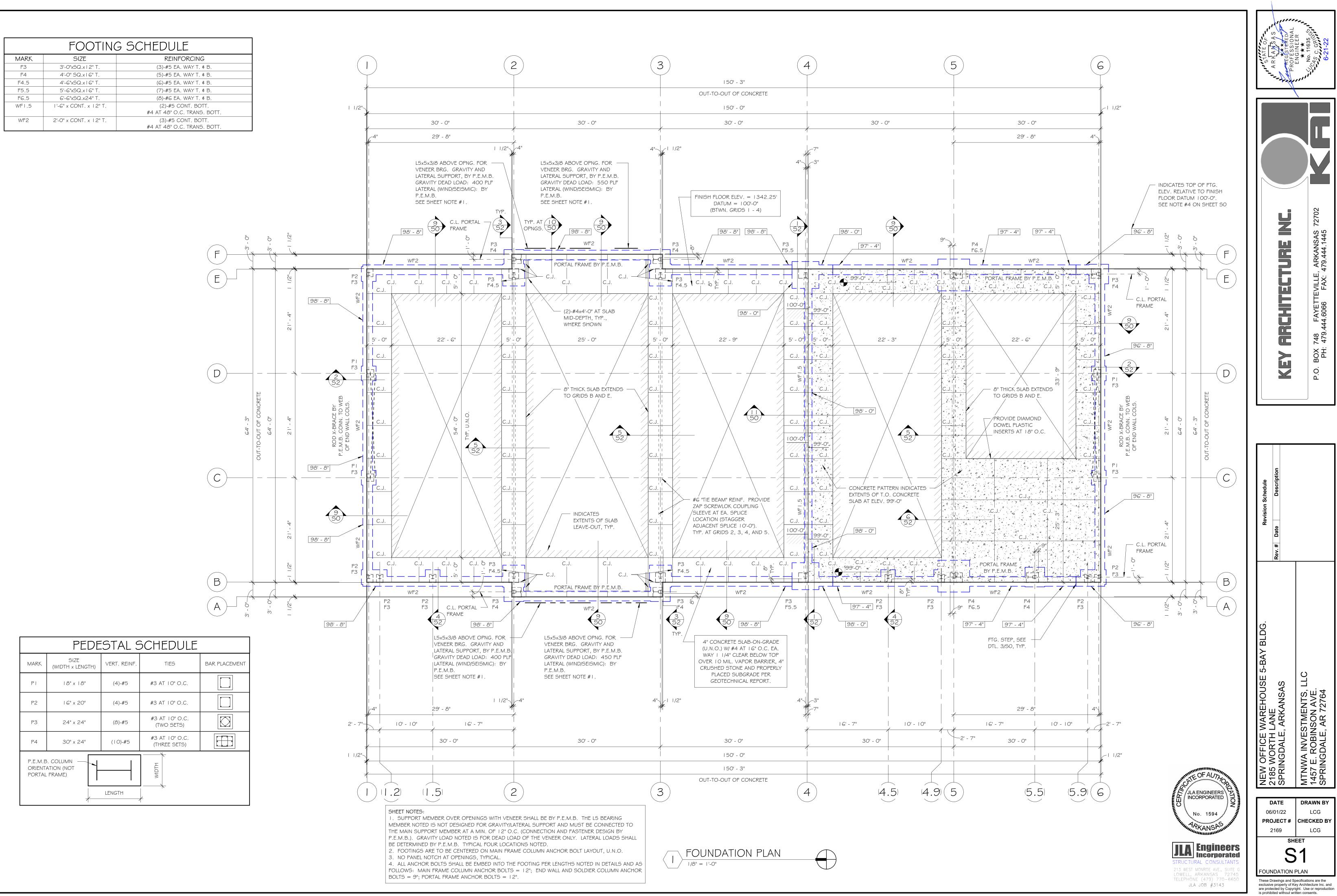
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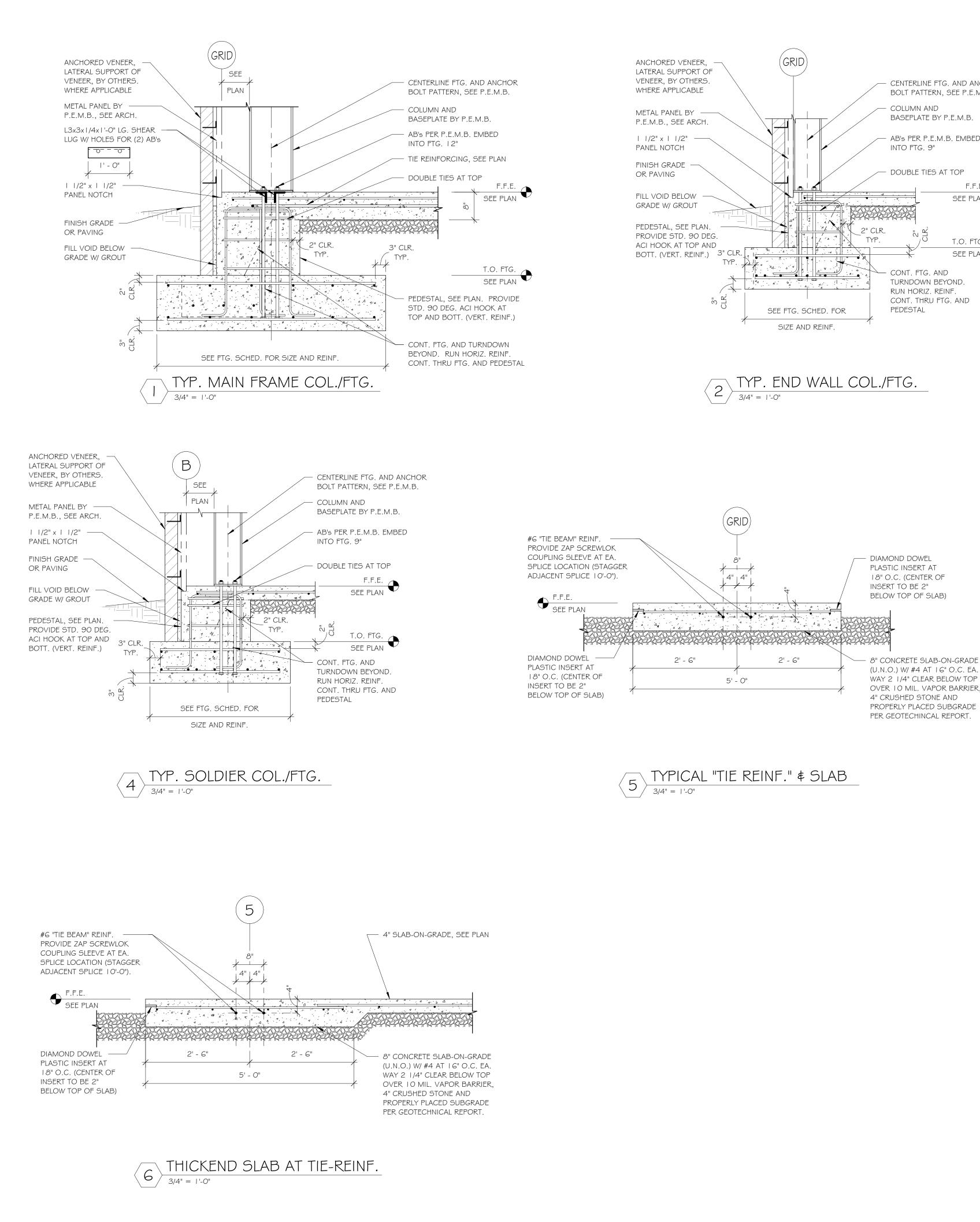
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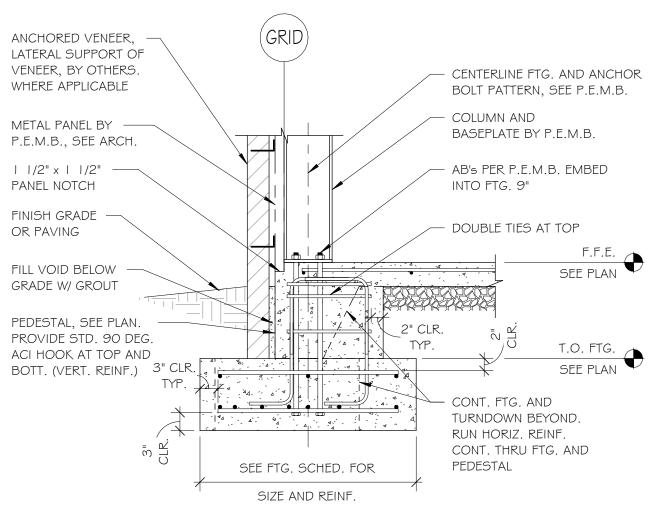
STRUCT. NOTES AND DTLS.

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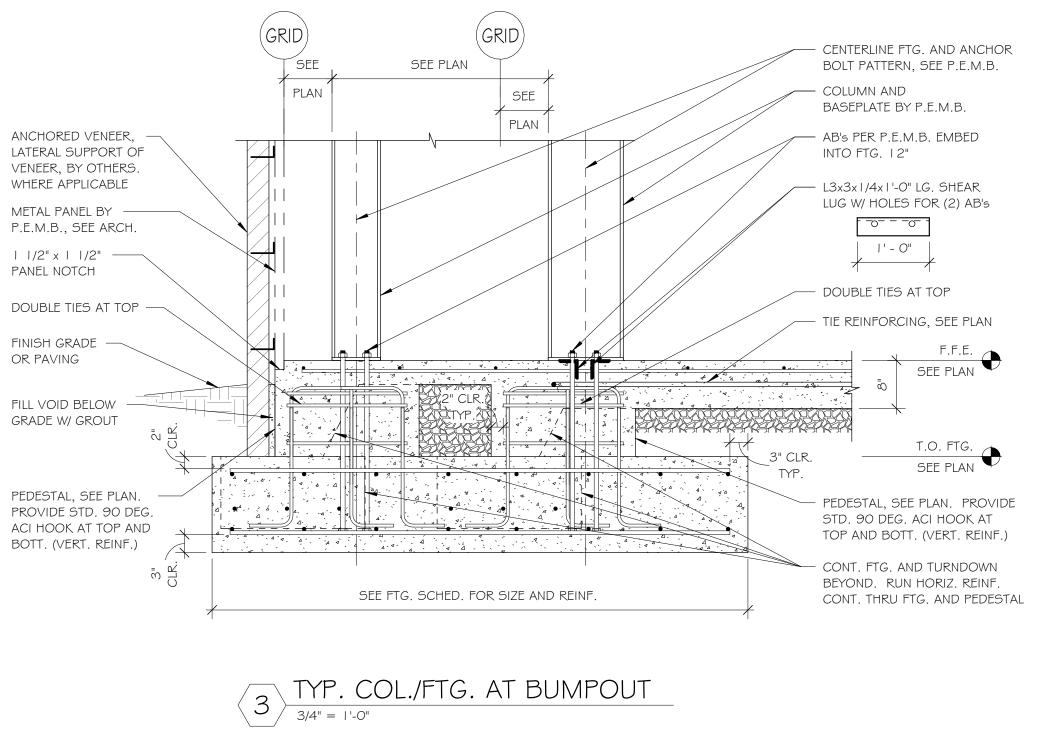












SCHEDULE OF SPECIAL INSPECTIONS (STRUCTURAL)

HIS SCHEDULE OF SPECIAL INSPECTION SERVICES (STRUCTURAL) HAS BEEN PREPARED BY JLA ENGINEERS INC. (STRUCTURAL ENGINEER OF RECORD) AND HALL BE INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS WHICH THE APPLICANT (NOT JLA ENGINEERS INC.) SHALL SUBMIT TO THE BUILDING OFFICIAL AT TIME OF PERMIT APPLICATION IN ACCORDANCE WITH SECTION 1704 OF THE 2012 ARKANSAS FIRE PREVENTION CODE.

PECIAL INSPECTION IS THE MONITORING OF THE MATERIALS AND WORKMANSHIP CRITICAL TO THE INTEGRITY OF THE BUILDING STRUCTURE. IT IS A REVIEW OF THE WORK OF THE CONTRACTORS AND THEIR EMPLOYEES TO ENSURE THAT THE APPROVED PLANS AND SPECIFICATIONS ARE BEING FOLLOWED AND THAT THE RELEVANT CODES AND REFERENCED STANDARDS ARE BEING OBSERVED. THE SPECIAL INSPECTION PROCESS IS IN ADDITION TO THE NSPECTIONS CONDUCTED BY THE BUILDING OFFICIAL OR AUTHORITY HAVING JURISDICTION AND STRUCTURAL OBSERVATION BY THE DESIGN PROFESSIONAL.

PECIAL INSPECTIONS AND TESTS ARE REQUIRED TO BE PERFORMED BY QUALIFIED, INDEPENDENT AGENTS (NOT JLA ENGINEERS INC.) WITH SPECIAL EXPERTISE AS APPROVED BY THE BUILDING OFFICIAL. THE QUALIFIED, INDEPENDENT AGENTS SHALL BE RETAINED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT (NOT JLA ENGINEERS INC.) TO COMPLETE THE SPECIAL INSPECTIONS NOTED IN THIS DOCUMENT. REFER TO SECTION 1704 OF THE 2012 ARKANSAS FIRE PREVENTION CODE.

SPECIAL INSPECTIONS PER 2012 ARKANSAS FIRE PREVENTION CODE SECTION 1704 ARE REQUIRED TO BE PROVIDED ON ALL PROFESSIONALLY DESIGNED PROJECTS NOT MEETING THE EXCEPTIONS DESCRIBED IN SECTION 1704.2 OR AS DETERMINED BY THE BUILDING OFFICIAL.

AS PART OF THE GENERAL REQUIREMENTS SECTION 1704 OF THE 2012 ARKANSAS FIRE PREVENTION CODE, SPECIAL INSPECTIONS, CONTRACTOR RESPONSIBILITY AND STRUCTURAL OBSERVATIONS. A STATEMENT OF SPECIAL INSPECTIONS INCLUDING A SCHEDULE OF SPECIAL INSPECTION SERVICES REPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (NOT JLA ENGINEERS INC.) SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, BY THE APPLICANT, AT TIME OF PERMIT APPLICATION.

MATERIAL / ACTIVITY

704.2.5 INSPECTION OF FABRICATORS VERIFY FABRICATION/QUALITY CONTROL PRO 1705.6 SOILS

VERIFY MATERIALS BELOW SHALLOW FOI ADEQUATE TO ACHIEVE THE DESIGN BEARIN VERIFY EXCAVATIONS ARE EXTENDED TO

HAVE REACHED PROPER MATERIAL. . PERFORM CLASSIFICATION AND TESTING

MATERIALS. . VERIFY USE OF PROPER MATERIALS, DEN

HICKNESSES DURING PLACEMENT AND CON CONTROLLED FILL.

5. PRIOR TO PLACEMENT OF CONTROLLED I SUBGRADE AND VERIFY THAT THE SITE HAS PROPERLY.

NOTES:

. THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL.

2. THE LIST OF SPECIAL INSPECTORS MAY BE SUBMITTED AS A SEPARATE DOCUMENT.

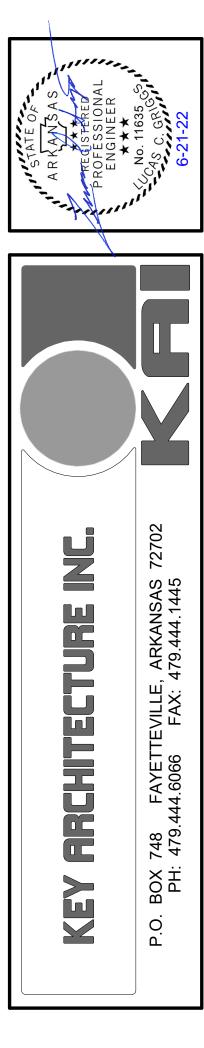
. SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704.2.5 ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH THE 2012 ARKANSAS FIRE PREVENTION CODE SECTION 1704.2.5.2.

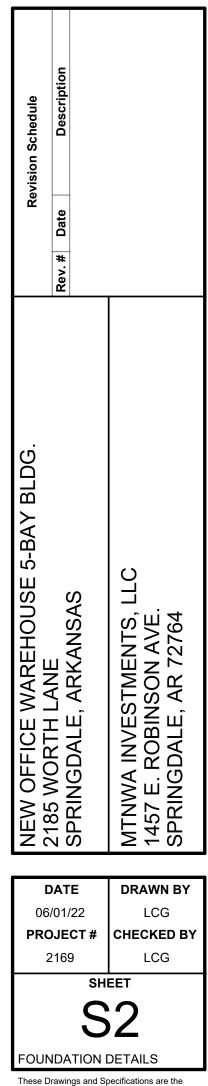
JLA ENGINEERS INC., HAS PROVIDED THE SC INSPECTION REQUIREMENTS SHALL BE PROV

ŕ	SERVICE	REQ'D.	EXTENT
OCEDURES.	IN-PLANT REVIEW (3)	YES	PERIODIC
DUNDATION ARE NG CAPACITY.	FIELD INSPECTION	YES	PERIODIC
D PROPER DEPTH AND	FIELD INSPECTION	YES	PERIODIC
G OF CONTROLLED FILL	FIELD INSPECTION	YES	PERIODIC
ENSITIES, AND LIFT DMPACTION OF	FIELD INSPECTION	YES	CONTINUOUS
FILL, OBSERVE 5 BEEN PREPARED	FIELD INSPECTION	YES	PERIODIC

CHEDULE OF SPECIAL INSPECTION SERVICES (STRUCTURAL) FOR THE FOUNDATION ONLY. ALL OTHER SPECIAL
VIDED BY OTHERS.
JLA ENGINEERS INC. DOES NOT PERFORM SPECIAL INSPECTIONS







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ABV	ABOVE
AC	
ACC	AIR COOLED CONDENSER AUTOMATIC CONTROL DAMPER
ACD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
ATC	AUTOMATIC TEMPERATURE CONTROL
в	BOILER
BD	BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
BO	BLANK OFF
BHP	BRAKE HORSE POWER
BTU	
CC	
CD	CEILING DIFFUSER CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
СЦ	CHILLER
СО	CLEAN OUT
	COMPRESSOR
	CONVECTOR
CR	CEILING REGISTER
СТ	COOLING TOWER
си	CONDENSING UNIT
cw	CONDENSER WATER
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EA	
ECH	
EDB	ELECTRIC CABINET HEATER
EDB	ENTERING DRY BULB EXHAUST FAN
EFF	EFFICIENCY
EFF	ELEVATOR
EHC	ELECTRIC HEATING COIL
EUH	
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
F	FILTER
FBO	FURNISHED BY OTHERS
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)
FCC	FIRE CONTROL CENTER
FCU	FAN COLUNIT
FD	FUSIBLE LINK FIRE DAMPER W/ DUCT ACCESS DOOR
FLR	FLOOR
FLA	FULL LOAD AMPS
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FRE	FIRE RATED ENCLOSURE
FSD	COMBINATION FIRE AND SMOKE DAMPER
FT	FEET
FTR	FIN TUBE RADIATOR
GLY	GLYCOL
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
нс	HEATING COIL
нтр	HEAT PUMP
HP	HORSE POWER
HR	HOUR
HRU	HEAT RECOVERY UNIT
HTW	HEATWHEEL
HV	HEATING AND VENTILATING UNIT
HW	HOT WATER
HW	HEAT EXCHANGER
пр	INSIDE DIMENSION
	KILOWATT
KWH	KILOWATT KILOWATT HOURS
LAT	LEAVING AIR TEMPERATURE
LBS	
LD	LINEAR DIFFUSER (CEILING, WALL, SILL OR FLOOR)
LWS	
LWT	
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
ИВН	THOUSAND BTU PER HOUR MOTOR CONTROL CENTER

МІЛІМИМ
MAKE UP AIR UNIT
MAXIMUM OVERCURRENT PROTECTION
NEW
NORMALLY CLOSED
NOT IN THIS CONTRACT
NORMALLY OPEN
NOT TO SCALE
OUTSIDE AIR INTAKE
OPPOSED BLADE DAMPER
OUTSIDE DIMENSION
PUMP
PRESSURE DROP
PRE-HEAT COIL
PLATE HEAT EXCHANGER
PRESSURE REDUCING VALVE
POUNDS PER SQUARE INCH (GAUGE)
POUNDS PER SQUARE INCH ABSOLUTE
EXISTING TO BE RELOCATED
RELATIVE HUMIDITY REHEAT COIL
REVOLUTIONS PER MINUTE
SUPPLY AIR
SEE ARCHITECTURAL DRAWINGS
SMOKE DAMPER
SUPPLY FAN
SEE ELECTRICAL DRAWINGS
SENSIBLE
SHEET METAL
STATIC PRESSURE
STAIR PRESSURIZATION
SQUARE FEET
SOUND TRAP
SMOKE EXHAUST
TRANSFER FAN
TRANSFER GRILLE TOILET EXHAUST
TYPICAL
UNIT HEATER
UNIT HEATER UNLESS OTHERWISE NOTED
VARIABLE
VARIABLE AIR VOLUME
VOLUME DAMPER
VOLUME DAMPER
WITH
WET BULB
WATER GAUGE
WIRE MESH SCREEN
ZE WALL OPENING - [SIZE]
EXISTING TO BE DEMOLISHED
EAISTING TO BE DEMOLISHED
CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE
CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE
CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND
CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND CONDENSER WATER SUPPLY CONDENSER WATER RETURN CHILLED WATER SUPPLY
CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND CONDENSER WATER SUPPLY CONDENSER WATER RETURN CHILLED WATER SUPPLY
CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND CONDENSER WATER SUPPLY CONDENSER WATER RETURN CHILLED WATER SUPPLY CHILLED WATER RETURN CHILLED WATER RETURN

REFRIGERANT LIQUID PIPING

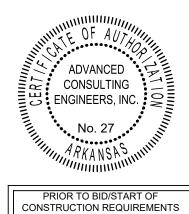
P	PIPING LEGEND (CONTINUED)		PIPING LEGEND (CONTIN	IUED)	DUC	CTWORK LEGEND (CONTINUED)] [
∽ RS −−−−	· · · · · · · · · · · · · · · · · · ·						╡┝━
	REFRIGERANT SUCTION PIPING		DIRT POCKET				
R-SV R-SV	REFRIGERANT-SAFETY VALVE RELIEF LINE		SIGHT GLASS			SLOPING DROP IN DUCTWORK	
	HOT GAS PIPING		VALVE IN VERTICAL MANUAL AIR VENT		<u>}</u>		-
	DOMESTIC COLD WATER MAKE-UP		AUTOMATIC AIR VENT		<u>→ 18x12</u> →	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE	÷
	ARROW INDICATES DIRECTION OF FLOW		THERMOMETER		18x12		
<u>, </u>			PIPE SENSOR WELL (THERMOMETER) PRESSURE GAUGE AND COCK		<u><u><u></u> 18</u>₽<u></u>,</u>	ROUND DUCT DIAMETER SIZE (CLEAR	<u>۶</u>
	PITCH PIPE DOWN IN DIRECTION OF ARROW		PRESSURE GAUGE WITH LOOP		<u><u></u> 18\$}</u>	DIMENSION)	
	DRAIN LINE		TEMPERATURE-PRESSURE TEST FITTI	NG	<u>}</u> →	OVAL DUCT SIZE	
	PIPE ANCHOR		CENTER LINE		¥ 18 €		
	PIPE GUIDE	\$~~~~	HEAT TRACED PIPING			SIDE, TOP OR BOTTOM DUCT ACCESS DOOR	
			PIPE SLEEVE BEAM PENETRATION		\$====\$		
シᢇᢩ᠐ᡝ᠆᠊ᡝ ᠳ᠋᠋ᡅᢛ	EXPANSION COMPENSATOR		PIPE GUIDE		F1	ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)	
<u>у Ш- Ц</u> (3'-0"х6'-0")		<u> </u>	PIPE CAP			RECTANGULAR OR SQUARE TO ROUND OR	
ĻŢĻ		<u> </u>	PIPE BLIND FLANGE			OVAL TRANSITION	
(3'-0"x6'-0")	EXPANSION LOOP (SIZE AxB)		DUCTWORK LEGEND			FLEXIBLE CONNECTION	
					 └ └ └ └ └	DUCT END/CAP	┥┍──
└──∮──┤ €── ┃ ●─●┃ □──	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR		DUCT SPLIT WITH SPLIT SIZE			FLEXIBLE DUCT	
	CONCENTRIC REDUCER (INCREASER)						
					┝┺╌┤	DUCT COIL WITH ACCESS DOOR	
<u>€⊒⊡∎⇒-</u> ⊱ ⊢_≺	ECCENTRIC REDUCER (INCREASER)		RADIUS ELBOW				
	UNION					VOLUME DAMPER IN DUCT	
	CAPPED PIPE WITH SHUT-OFF VALVE		ELBOW WITH TURNING VANES				┥ [∽
∽ · ↓ ↓ ↓	"Y" TYPE STRAINER WITH HOSE END					AUTOMATIC CONTROL DAMPER	
	BLOW OFF VALVE		RECTANGULAR BRANCH TAKEOFF			FUSIBLE LINK FIRE DAMPER WITH DUCT	1⊢
	"Y" TYPE STRAINER	└───────	BALANCING DAMPER			ACCESS DOOR	
<u> </u>	BASKET TYPE STRAINER	↓ <u> </u>				SMOKE DAMPER WITH DUCT ACCESS DOOR	
			RECTANGULAR SUPPLY DUCT UP				
	DUPLEX STRAINER					COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR	
	ELBOW TURNED UP		RECTANGULAR SUPPLY DUCT DOWN				-
	ELBOW TURNED DOWN					BACK DRAFT DAMPER WITH DUCT ACCESS DOOR	
			RECTANGULAR RETURN OR EXHAUST			LINEAR DIFFUSER	
	BOTTOM PIPE CONNECTION		UP				- <
<u> </u>	TOP PIPE CONNECTION		RECTANGULAR RETURN OR EXHAUST			LINEAR DIFFUSER WITH PLENUM	
⊱_CC			DUCT DOWN			1-WAY BLOW 3-WAY BLOW CEILING DIFFUSER	<u>C</u> (!
	SLOPED CHANGE IN PIPE ELEVATION	↓				2-WAY BLOW 4-WAY BLOW	
	FLEXIBLE CONNECTION		ROUND DUCT, UP			CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION	
	SHUT-OFF VALVE					RETURN/EXHAUST REGISTER OR GRILLE	
	AUTOMATIC FLOW CONTROL VALVE		ROUND DUCT, DOWN		A	RETURN/EXHAUST REGISTER OR GRILLE WITH	┥└
	CALIBRATED BALANCE VALVE					FLEXIBLE DUCT CONNECTION ROUND CEILING DIFFUSER WITH FLEXIBLE	
	GLOBE VALVE		BEAM			DUCT CONNECTION	
	CHECK VALVE		PENETRATION			ROUND CEILING DIFFUSER	SHEE
		<u> </u>			Ø	FLOOR SWIRL DIFFUSER	M-000 M-100
	AUTOMATIC THREE-WAY CONTROL VALVE		SLOPING RISE IN DUCTWORK			FIRE RATED ENCASED DUCT	M-700
						TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE)	
	AUTOMATIC TWO-WAY CONTROL VALVE				wo-size	WALL OPENING ABOVE HUNG CEILING (SIZE)	
$+ \not \prec$	RELIEF VALVE				$\begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$	SUPPLY REGISTER WITH AIR OUTLET DEVICE	-
		•			$\frac{SR-A, 12x8}{(200)} \rightarrow$	DESIGNATION	
	ANGLE RELIEF VALVE	ļ			Sector C,12x8 (200)	RETURN OR EXHAUST REGISTER OR GRILLE	7
	PRESSURE REDUCING VALVE (PRV)				€R-C,12x8 (200)	WITH AIR INLET DEVICE DESIGNATION	
	LUBRICATED PLUG VALVE	1					1
∽ ₩ ₩	LOCKSHIELD GLOBE VALVE	1			ACCESS	TERMINAL UNIT WITH/WITHOUT HEATING COIL	
		ł					-
	SOLENOID VALVE				ACCESS	FAN POWERED TERMINAL UNIT WITH/WITHOUT HEATING COIL	
<u> </u>	BUTTERFLY VALVE (MANUAL)				<u> </u>		
╘═╝╝ <u>═</u> ╞╸ ┝━╬═┥				ΔD		ABLE CODES	
	BUTTERFLY VALVE (MOTORIZED)						4
↔ 	BALL VALVE			CODES:			
<u>€10</u> ⊢10		-			S MECHANICAL	. CODE 2010	
	PUMP					IRISDICTION REQUIREMENTS	
¥							

MECHANICAL LEGEND AND ABBREVIATIONS

	CONTROLS LEGEND
ך שו	TOTALIZING BTU METER
	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUT-DOWN
; 	FLOW MEASURING STATION
⊥ ₩	FLOW SWITCH
	CARBON MONOXIDE SENSOR WITH ZONE DESIGNATION
	CARBON DIOXIDE SENSOR WITH ZONE DESIGNATION
	TEMPERATURE SENSOR/THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
	HUMIDISTAT/HUMIDITY SENSOR WITH HUMIDIFIER DESIGNATION
	COMBINATION TEMPERATURE/HUMIDITY SENSOR
	DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE
	STATIC PRESSURE SENSOR WITH DESIGNATION
	REFRIGERANT SENSOR WITH DESIGNATION

	MISCELLANEOUS
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SWITCH
Ļ	NEW WORK
4	EXISTING WORK
ļ	EXISTING WORK TO BE REMOVED
Ļ	POINT OF NEW CONNECTION TO EXISTING WORK
	OVAL
	DIAMETER
	UNDERCUT DOOR
	RISER DESIGNATION
	SECTION DESIGNATION SECTION NUMBER DRAWING NUMBER
	DETAIL DESIGNATION
	EQUIPMENT DESIGNATION
	TERMINAL THE NUMBER ON THE FLOOR DESIGNATION FLOOR OR LEVEL
	AIR OUTLET/INLET <u>CD-1,12x12</u> NECK OR DEVICE (550) FACE SIZE DESIGNATION CFM
8	LINEAR DIFFUSER DEVICE DESIGNATION (300) DEVICE DESIGNATION (300) DEVIC
	KEYNOTE

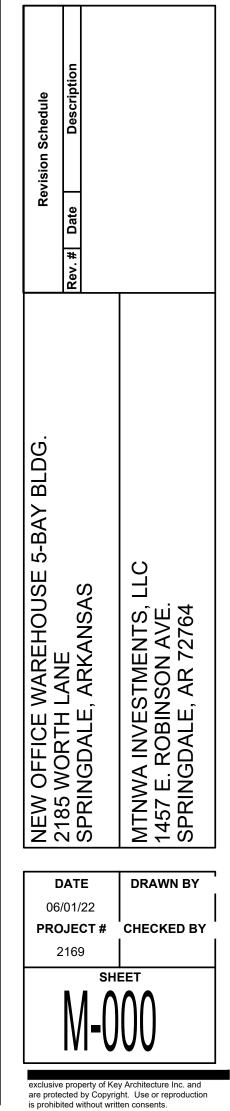
MECHANICAL DRAWING LIST								
NUMBER	SHEET NAME							
	MECHANICAL LEGEND & ABBREVIATIONS							
	MECHANICAL FLOOR PLAN & SCHEDULES							
	MECHANICAL SPECIFICATIONS							



THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE



FAYETTEVILLE, ARKANSAS 444.6066 FAX: 479.444.1445 **ARCHITECTURE** 748 479 BOX PH: KEY Ö



	CONDENSING UNIT SCHEDULE									
MARK	MANUFACTURER MODEL	NOMINAL TONS	NET TOTAL CAPACITY (MBH)	NET SENSIBLE CAPACITY (MBH)	COMPRESSOR QUANTITY	VOLTAGE	MCA MOCP	ACCESSORIES NOTES		
C-1	LENNOX ML14XC1S018-230	1.5	19.6	15.4	1	200/230/1	12 20	1		
ACCESSORIES:										

NOTES: 1. PROVIDE START CAPACITOR KIT.

	GAS FURNACE SCHEDULE									
MARK	MANUFACTURER MODEL	CFM	OSA (CFM)	CFM ESP*	INPUT (MBH)	VOLTZ PHASE HERTZ	MCA MOCP	ACCESSORIES NOTES		
F-1	LENNOX ML196UH045XE36B	635	55	0.5"	44	115 1 60	12 15	A,B,C,D 1,2		

ACCESSORIES: A. LOW AMBIENT KIT.

B. MANUALLY ADJUSTABLE O.S.A. DAMPER WITH HOOD, ADJUSTABLE TO 25% MAXIMUM, ADJUST PER SCHEDULE. C. HEATING/COOLING THERMOSTAT WITH FAN "ON-OFF-AUTO" SWITCH. THERMOSTAT SHALL HAVE AUTOMATIC SWITCHING FROM

"HEAT" TO "COOL," AND BE PROVIDED WITH LOCKING TYPE COVER. D. COIL – CHX35–24B–6F

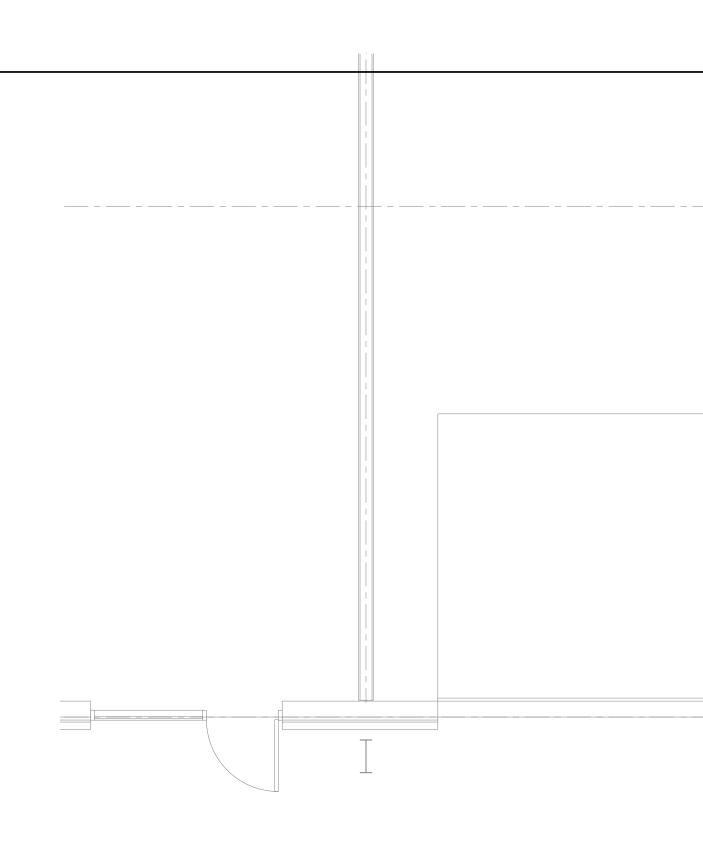
NOTES: 1. COOLING CAPACITY BASED ON 80 DEGREES F DB/67 DEGREES F WB EVAPORATOR COIL ENTERING AIR TEMPERATURE.

* ESP IS THE STATIC PRESSURE DOWNSTREAM OF THE PLENUM.

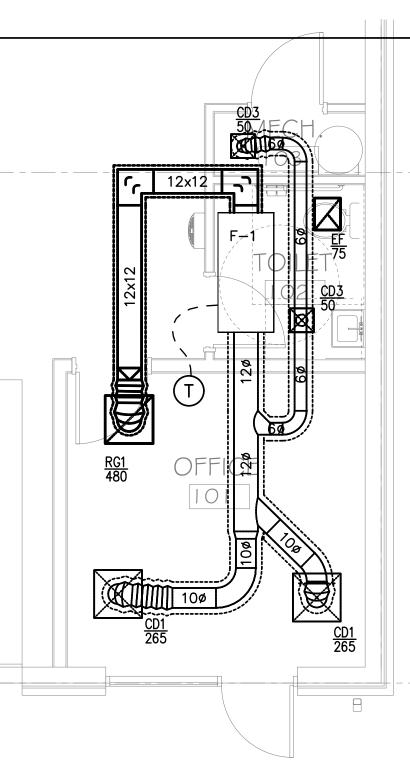
EXHAUST FAN SCHEDULE									
MARK	MANUFACTURER MODEL	V/PH/HZ HORSEPOWER SONES	RPM CFM ESP	ACCESSORIES & NOTES					
EF-1	COOK GC-128	1/115/60 .0125 1.0	750 79 0.125	A,B,D 1					
ACCESSORIES: A. INTEGRAL BACKDRAFT DAMPER. B. WHITE PLASTIC GRILLE C. NOT USED D. GEMINI ISOLATOR KIT – ISOLATORS E. NOT USED									
NOTES: 1. VERIFY APPROVED EQUALS WITH OWNER.									

ACEI DIFFUSER, GRILLE, AND REGISTER SCHEDULE									
CALLOUT	FACE SIZE (IN)	INLET SIZE (IN)	MODEL						
CD1	24x24	8ø	TITUS – TMS						
CD3	12x12	6ø	TITUS - TMS						
EF	16x13	6ø	COOK – GC128						
RG1	24x24	12x12	TITUS – 50FF						





ROOM AIR BALANCE REPORT										
ROOM NUMBER	ROOM NAME	AREA	CEILING HEIGHT	VOLUME	SUPPLY CFM	RETURN CFM	EXHAUST CFM	OSA CFM REQUIRED	PRESSURIZATION	
Mech	Elec/Mech	17	9'-0"	150	50	0	0	4	50	
Office	Office	308	9'-0"	2768	530	480	0	35	50	
Toilet	General	46	9'-0"	410	50	0	75	14	-25	



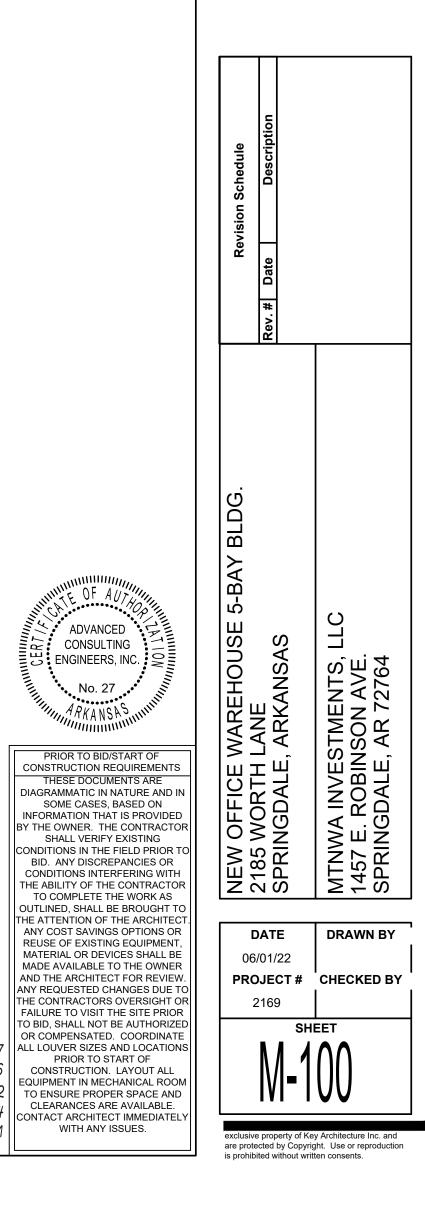
C-1



ADVANCED CONSULTING ENGINEERS MECHANICAL ELECTRICAL INDUSTRIAL ACEI@ADVENGINEERS.COM

PO BOX 427OR COMPENSATED. COORDINATE
ALL LOUVER SIZES AND LOCATIONS
PRIOR TO START OF
CONSTRUCTION. LAYOUT ALL
EQUIPMENT IN MECHANICAL ROOM
TO ENSURE PROPER SPACE AND
CLEARANCES ARE AVAILABLE.
CONTACT ARCHITECT IMMEDIATELY
WITH ANY ISSUES.I@ADVENGINEERS·COMOR COMPENSATED. COORDINATE
ALL LOUVER SIZES AND LOCATIONS
PRIOR TO START OF
CONSTRUCTION. LAYOUT ALL
EQUIPMENT IN MECHANICAL ROOM
TO ENSURE PROPER SPACE AND
CLEARANCES ARE AVAILABLE.
CONTACT ARCHITECT IMMEDIATELY
WITH ANY ISSUES.

, ARKANSAS 479.444.1445 RCHITECTURE TEVILLE, FAX: FAYET 444.6066 748 479 BOX PH: KEY 0



ADVANCED CONSULTING ENGINEERS, INC.

No. 27 RKANSA

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE

SHALL VERIFY EXISTING

OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT ANY COST SAVINGS OPTIONS OR

REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE

OR COMPENSATED. COORDINATE

SECTION 15000

COMMON REQUIREMENTS FOR MECHANICAL WORK:

1.0 GENERAL

- 1.01. SCOPE OF DIVISION:
 - A. WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING MECHANICAL INSTALLATION IN ACCORDANCE WITH REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- 1.02 DRAWINGS:
 - A. ARCHITECTURAL AND STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER MECHANICAL DRAWINGS WITH REFERENCE TO THE BUILDING CONSTRUCTION. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENTS OF MATERIALS AND EQUIPMENT SHALL BE DETERMINED. WITH THE APPROVAL OF THE ENGINEER, AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES.
- 1.03 COORDINATION OF WORK:
 - A. COORDINATE ALL WORK, PRIOR TO INSTALLATION WITH WORK OF OTHER TRADES AND WITH ARCHITECTURAL AND STRUCTURAL FEATURES TO PRECLUDE INTERFERENCE'S BETWEEN THE WORK OF DIFFERENT TRADES AND TO INSURE NECESSARY CLEARANCES AT CROSSOVERS AND EQUIPMENT.
- 1.04 SHOP DRAWINGS:
 - A. SUBMIT TO ENGINEER FOR APPROVAL BEFORE COMMENCING WORK, SHOP DRAWINGS FOR ALL MECHANICAL MATERIALS AND EQUIPMENT TO BE PROVIDED.
 - B. PRESENT DATA IN DETAIL EQUAL TO OR GREATER THAN THAT GIVEN IN ITEM SPECIFICATIONS AND INCLUDED ALL WEIGHTS. DEFLECTIONS. SPEEDS. VELOCITIES. PRESSURE DROPS, OPERATING TEMPERATURES, OPERATING CURVES, TEMPERATURE RANGES, SOUND RATINGS, DIMENSIONS, SIZES, MANUFACTURERS' NAMES, MODEL NUMBERS, TYPES OF MATERIAL USED, OPERATING PRESSURES, FULL LOAD AMPERAGES, STARTING AMPERAGES, FOULING FACTORS, CAPACITIES, SET POINTS, CHEMICAL COMPOSITIONS, CERTIFICATIONS, AND ENDORSEMENTS, OPERATING VOLTAGES, THICKNESS', GAUGES AND ALL OTHER RELATED.
- 1.05 RECORD DRAWINGS:
 - A. MAINTAIN ONE EXTRA SET OF BLACK-LINE, WHITE PRINT DRAWINGS FOR USE AS RECORD DRAWINGS. RECORDS SHALL BE KEPT DAILY, USING COLORED PENCIL. AS THE WORK IS COMPLETED, RELEVANT INFORMATION SHALL BE TRANSFERRED TO A REPRODUCIBLE SET, AND COPIES MADE SHALL BE GIVEN TO THE ENGINEER.
- 1.06 FEES AND PERMIT:
 - A. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION.
- 2.0 PRODUCTS
- 2.01 GENERAL
 - A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT
 - B. EQUIPMENT AND MATERIALS SHALL BE PRODUCTS WHICH WILL MEET WITH THE ACCEPTANCE OF THE AGENCY INSPECTING THE WORK. WHERE ACCEPTANCE IS CONTINGENT UPON HAVING THE PRODUCTS EXAMINED, TESTED, AND CERTIFIED BY UNDERWRITERS OR OTHER RECOGNIZED TESTING LABORATORY, THE PRODUCT SHALL BE SO EXAMINED, TESTED, AND CERTIFIED.

2.02 MOTORS:

UNLESS SPECIFICALLY SPECIFIED OTHERWISE IN THE SECTION COVERING THE DRIVEN EQUIPMENT (OR THE EQUIPMENT DRIVES). MOTORS SHALL COMPLY WITH THE FOLLOWING:

- A. THREE PHASE:
- NEMA DESIGN B, THREE-PHASE, SQUIRREL CAGE INDUCTION TYPE DESIGNED FOR 1800 RPM SYNCHRONOUS SPEED FOR OPERATION IN 40 DEGREE C AMBIENT AT 1.15 SERVICE FACTOR AT CONSTANT SPEED ON THE SCHEDULED VOLTAGE. MOTORS SHAL BE INSULATED WITH CLASS B INSULATION MATERIAL AND SHALL BE CAST IRON, DRIP PROOF, HORIZONTAL FOOT MOUNTED TYPE WITH BALL BEARINGS. TWO SPEED MOTORS SHALL BE PROVIDED AS SCHEDULED AND SHALL BE TWO TYPE.
- B. SCHEDULED HORSEPOWER: THE HORSEPOWER SCHEDULED OR SPECIFIED ARE THOSE NOMINAL SIZES ESTIMATED TO BE REQUIRED BY THE EQUIPMENT WHEN OPERATING AT SPECIFIED DUTIES AND EFFICIENCIES. IF THE ACTUAL HORSEPOWER FOR THE EQUIPMENT FURNISHED DIFFERS FROM THAT SPECIFIED OR SHOWN ON THE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT PROPER SIZE FEEDERS, BREAKERS, STARTERS, ETC.. ARE PROVIDED AT NO CHANGE IN CONTRACT PRICE.

SECTION 15005

INSTRUCTIONS AND MAINTENANCE MANUALS

- 1.0 GENERAL
- 1.01. INSTRUCTIONS:
 - A. PROVIDE COMPLETE WRITTEN AND VERBAL OPERATING AND MAINTENANCE INSTRUCTION TO THE OWNER FOR ALL MECHANICAL SYSTEMS.

2.02 DOCUMENTATION:

PROVIDE TWO (2) INSTRUCTIONS AND MAINTENANCE MANUALS, EACH COMPLETE AS FOLLOWS:

- A. HARDBACK THREE RING LOOSE LEAF BINDERS.
- B. TITLE SHEET WITH JOB NAME, CONTRACTOR'S SUBCONTRACTOR'S CONTROL SUBCONTRACTOR AND RELATED CONTRACTOR'S OR MATERIAL SUPPLIERS NAMES, ADDRESSES AND PHONE NUMBERS.
- C. INDEX OF CONTENTS.
- D. A SIGNED COPY OF ACKNOWLEDGMENT OF INSTRUCTIONS TO THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. TWO ADDITIONAL COPIES OF THE SIGNED ACKNOWLEDGMENT SHALL BE SENT DIRECTLY TO THE ENGINEER AS SOON AS POSSIBLE AFTER RECEIPT.
- E. TYPE WRITTEN OPERATING INSTRUCTIONS FOR THE OWNER'S PERSONNEL DESCRIBING THE FOLLOWING FOR EACH PIECE OF EQUIPMENT AND SYSTEMS:

 - 1. HOW TO START AND STOP EACH PIECE OF EQUIPMENT. 2. HOW TO SET EQUIPMENT AND SYSTEMS FOR NORMAL OPERATION.
 - 3. NORMAL RESTARTING PROCEDURES BEFORE CONTACTING THE SERVICE CONTRACTOR. 4. COMPLETE DESCRIPTION OF FUNCTIONS AND OPERATIONS OF EACH PIECE OF
 - EQUIPMENT INCLUDING DESCRIPTION OF HOW EQUIPMENT OPERATES IN CONJUNCTION WITH AUTOMATIC CONTROL SYSTEMS.
 - 5. INSTRUCTIONS FOR CLEANING, OILING, GREASING, FUELING, AND SIMILAR TASKS.

SECTION 15005 INSULATION: THERMAL

1.0 GENERAL 1.01. SCOPE:

PROVIDE LABOR AND MATERIALS TO INSULATE EQUIPMENT, PIPING AND MISCELLANEOUS ITEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.

1.02 NFPA 90A:

ALL MATERIALS AND ADHESIVES USED IN OR ON DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF NFPA 90A AS TO FLAME SPREAD AND SMOKE DEVELOPED RATINGS.

2.0 PRODUCTS

2.01 INSULATION MATERIALS, GENERAL: FOLLOWING:

2.02 DUCTWORK INSULATION MATERIALS:

- A. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS
- B. PRODUCTS THAT COME IN CONTACT WITH STAINLESS STEEL SHALL HAVE LEACHABLE CHLORIDE CONTENT OF LESS THAN 50 PPM WHEN TESTED ACCORDING TO ASTM C 871
- ACCORDING TO ASTM C 795
- RIGID, HERMETICALLY SEALED CELLS.
- 3.0 EXECUTION

PROCESS

- 3.01 DUCTWORK: AND ALL JOINTS AND BREAKS IN THE VAPOR BARRIER SEALED USING PRESSURE SENSITIVE TAPE.
 - B. DYNAMICALLY BALANCED, DRAW THROUGH IN THE VERTICAL DISCHARGE POSITION
- SECTION 15800

AIR DISTRIBUTION EQUIPMENT

- 1.0 GENERAL
- 1.01 SCOPE:
- 1.02 RELATION TO OTHER WORK:
- 1.03 DESIGN CONDITIONS:
 - IN THE AIR DEVICE SCHEDULE.
 - W.G. STATIC.
 - C. GUARANTEE: AIR DISTRIBUTION EQUIPMENT SHALL BE GUARANTEED BY THE CLOSER THAN 6 INCHES FROM A WALL SURFACE.
- 1.04 MANUFACTURER:

1.05 APPEARANCE:

- ARCHITECT PRIOR TO DEVICE FABRICATION.
- 2.0 PRODUCTS
- 2.01 CEILING MOUNTED CONDITIONED AIR SUPPLY DIFFUSERS, RETURN AIR AND EXHAUST AIR REGISTERS.
- DEVICE.
- B. SPONGE RUBBER GASKETS.
- C. ALUMINUM OR STEEL, AS SPECIFIED.
- D. COMPANION ADJUSTABLE VOLUME DAMPERS.

INSULATION MATERIALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO THE

C. INSULATION FOR USE ON AUSTENTIC STAINLESS STEEL SHALL BE QUALIFIED AS ACCEPTABLE

D. FOAM INSULATION SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING

E. CELLULAR GLASS: INORGANIC, INCOMBUSTIBLE, FOAMED OR CELLULATED GLASS WITH ANNEALED,

MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553 TYPE II AND ASTM C 1290, TYPE I.

A. A MEDIUM AND LOW PRESSURE INTERIOR: ALL NEW SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK BE INSULATED EXTERNALLY WITH FIBERGLASS BLANKET WRAP. WHERE DUCT WIDTH EXCEEDS TWENTY-FOUR INCHES, THE INSULATION SHALL BE ADDITIONALLY SECURED TO THE BOTTOM OF THE DUCT USING MECHANICAL FASTENERS SPACED ONE FOOT (1') ON CENTER. INSULATION SHALL BE APPLIED WITH EDGES TIGHTLY BUTTED,

A. PROVIDED ALL AIR DISTRIBUTION DEVICES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN FOR A COMPLETE AND OPERABLE SYSTEM.

A. COORDINATE WITH WORK OF THE CEILING, DRYWALL, AND PLASTERING TRADES AS REQUIRED TO INSURE AN ORDERLY PROGRESSION OF WORK AND A FIRST CLASS FINISHED SYSTEM WITH RESPECT TO PLACEMENT, ALIGNMENT, FINISH, GENERAL FIT, AND ABSENCE OF CONFLICT WITH LIGHTING SYSTEMS AND FIRE PROTECTION SYSTEMS.

A. ACOUSTICAL: NOISE PRODUCED AT EACH DIFFUSER, REGISTER, GRILLE, OR OTHER AIR DISTRIBUTION DEVICE SHALL NOT EXCEED A NOISE CRITERIA LEVEL OF THE NC SHOWN

B. PRESSURE DROP ACROSS ANY AIR DISTRIBUTION DEVICE SHALL NOT EXCEED 0.03 IN

MANUFACTURER TO OPERATE WITHOUT EXCESSIVE NOISE AND WITH VELOCITIES IN THE FIVE FOOT OCCUPANCY ZONE. WHEN HANDLING AIR WITH TEMPERATURE DIFFERENTIALS AS HIGH AS 25 DEGREES, NOT TO EXCEED 30 FPM AT 2 DEGREE DIFFERENCE, 50 FPM AT 1-1/2 DEGREE DIFFERENCE, OR 75 FPM AT A 1 DEGREE DIFFERENCE WHEN OPERATING WITH AN AVERAGE 75 DEGREE ROOM TEMPERATURE AND MEASURE NO

A. TITUS, PRICE, METAL AIR, OR APPROVED EQUAL. MANUFACTURERS STYLE AND SERIES NUMBERS INDICATED ARE EXAMPLES OF PRODUCTS TO BE PROVIDED.

A. EACH AIR DISTRIBUTION DEVICE WHICH HAS A PORTION THEREOF (FRAME, CORE, ET.) EXPOSED TO VIEW IN THE FINISHED AREA SHALL HAVE A FACTORY APPLIED FINISH WHICH MATCHES AND IS COMPATIBLE WITH THE COLOR OF THE SURROUNDING SURFACES ON WHICH THE DEVICE IS INSTALLED. COLORS MUST BE APPROVED BY

A. DESIGNATED ON DRAWINGS BY THE MANNER OF INDICATED SYSTEM FUNCTION FOR THE

- 3.0 EXECUTION
- 3.01 GENERAL:
- - A. INSTALL NEATLY WHERE INDICATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH SMACNA RECOMMENDATIONS AND AS OTHERWISE INDICATED.
 - B. PROPERLY TEST, BALANCE AND ADJUST TO PRODUCE QUIET, DRAFTLESS OPERATING TO BEST DEGREE POSSIBLE.

3.02 SQUARE AIR DEVICES:

A. WHERE DIFFUSERS ARE LAY IN TYPE, THEY SHALL BE SUPPORTED BY THE INVERTED T BAR SUSPENSION SYSTEM. BUT ALL DUCTS CONNECTED THERETO SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING AS SPECIFIED UNDER SECTION ENTITLED "DUCTWORK". SURFACE MOUNTED DIFFUSERS SHALL BE SUPPORTED BY THE DUCT RUN OUTS OR DROPS WHERE SHEET METAL DUCTS ARE INDICATED AND BY SEPARATE HANGERS WHERE FLEX RUN OUTS ARE INDICATED. ALL RECTANGULAR CEILING DIFFUSERS SHALL BE INSTALLED WITH THEIR LINES PARALLEL AND PERPENDICULAR TO THE BUILDING LINE AND PROPERLY ALIGNED WITH CEILING.

SECTION 15850 DUCTWORK - SHEET METAL

1.0 GENERAL:

1.01 SCOPE:

A. PROVIDE COMPLETE DUCT SYSTEMS AS INDICATED. SYSTEMS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: OUTSIDE AIR, EXHAUST AIR, AND AIR CONDITIONING SUPPLY AND RETURN AIR DUCT SYSTEMS AS SHOWN ON DRAWINGS. DRAWING SCALES PROHIBIT THE INDICATION OF ALL OFFSETS, FITTINGS, AND LIKE ITEMS: HOWEVER, THESE ITEMS SHALL BE INSTALLED AS REQUIRED FOR THE ACTUAL PROJECT CONDITIONS AT NO CHANGE IN CONTRACT PRICE.

1.02 SHOP DRAWINGS:

A. REFER TO SECTION ENTITLED "COMMON REQUIREMENTS FOR MECHANICAL WORK". INCLUDE COMPLETE DATA FOR FLEXIBLE DUCT, FLEXIBLE CONNECTORS, TURNING VANES, MANUAL VOLUME DAMPERS, ACCESS DOORS, FLEXIBLE CONNECTORS, MANUAL VOLUME DAMPERS AND ADHESIVES.

1.03 DEFINITIONS:

- A. "SMACNA" MEANS "SHEET METAL AND AIR CONDITION CONTRACTORS NATIONAL ASSOCIATION, INC."
- B. LOW PRESSURE DUCTWORK: ANY AND ALL DUCTWORK CONVEYING AIR OR OTHER GASES AT VELOCITIES LESS THAN 2000 FPM AND STATIC PRESSURE LESS THAN 2.0 INCHES W.G. THIS DUCTWORK MAY ALSO BE REFERRED TO IN THESE SPECIFICATIONS AS "LOW VELOCITY DUCTWORK". SMACNA "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE," THIRD EDITION 2005, SHALL GOVERN CONSTRUCTION OF THIS DUCTWORK UNLESS OTHERWISE SPECIFIED. CONSTRUCT DUCT IN ACCORDANCE THERE WITH IN.

2.0 PRODUCTS

2.01 LOW PRESSURE SHEET METAL DUCTWORK:

- SYSTEMS OPERATING AT TWO INCHES OF WATER STATIC PRESSURE OR LESS, SHALL UNLESS SPECIFICALLY SPECIFIED OTHERWISE, CONFORM TO THE FOLLOWING REQUIREMENTS:
- A. MATERIAL: PRIME QUALITY FORTY-EIGHT INCH WIDE, TIGHT COAT GALVANIZED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM 526.
- REINFORCING, CROSS BREAKING, SEAMS, JOINTS: BE IN ACCORDANCE WITH LATEST SMACNA CONSTRUCTION STANDARD FOR LOW PRESSURE SHEET METAL DUCT.
- 2.02 LOW PRESSURE ROUND DUCTWORK:
 - A. DUCT SHALL BE MADE USING GALVANIZED STEEL AS PER ASTM A-527- G-90 WITH LONGITUDINAL SNAP-LOCK SEAMS.

2.03 FLEXIBLE DUCTS:

A. FLEXIBLE DUCT SHALL CONSIST OF SPIRAL WOUND HELIX COIL WITH TRILAMINATE INNER FABRIC, CORE SHALL BE COVERED WITH FACTORY APPLIED ON INCH, ONE POUND PER CUBIC FOOT FIBERGLASS INSULATION OF 0.23 THERMAL CONDUCTANCE SHEATHED IN A SEAMLESS EXTERIOR CLASS 1 VAPOR BARRIER JACKET REINFORCED ALUMINUM FOIL METALIZED JACKET. CONNECTIONS SHALL BE MADE USING RECTANGULAR TO ROUND BRANCH TAKE OFFS WITH 45 DEGREE ENTRY. DUCT SHALL BE NFPA 90A, CLASS 1 (UL 181), FLAME SPREAD LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 50. PROVIDE IN FACTORY FINISHED LENGTHS NOT IN EXCESS OF 6'-O" TO MAKE SUITABLE CONNECTIONS WITH MINIMUM PRESSURE DROP WITH MANUAL BUTTERFLY DAMPER AT CONNECTION TO MAIN DUCT BRANCH.

A. GENERAL:

1. PROVIDE IN ALL ELBOWS, BENDS AND TEES OF ALL LOW VELOCITY SUPPLY AIR DUCTS WHETHER OR NOT SHOWN IN DETAIL. PROVIDE IN ALL ELBOWS, BENDS AND TEES OF ALL OTHER LOW VELOCITY DUCTS WHERE PORTIONS OF SUCH DUCTS CONVEY AIR AT GREATER THAN 700 FPM AVERAGE VELOCITY. ADEQUATE RIGIDITY AND STRENGTH TO BE COMPLETE FLUTTER-PROOF; PROPERLY DESIGNED; PERMANENTLY FIXED TYPE. ALUMINUM STEEL WITH CORROSION RESISTANT COATING, OR GALVANIZED STEEL. AIR FOIL TYPE IN ALL MITERED ELBOWS, MITERED BENDS AND MITERED TEES. AIR FOIL TYPE MUST BE MANUFACTURED BY TITUS, TUTTLE & BAILEY, ANEMOSTAT, WATERLOO METAL AIR, BARBER COLEMAN, "AIR TURNS", TUTTLE & BAILEY "DUCT URNS", OR DURA DYNE "VR" WITH 24 GAUGE RAILS AND HOLLOW VANES.

3.01 GENERAL:

2.04 LOW PRESSURE DUCT SYSTEM ACCESSORIES

1. PROVIDE ALL NECESSARY DUCT SYSTEM ACCESSORIES TO ASSURE PROPER BALANCE QUIET AND DRAFTLESS DISTRIBUTION AND CONVEYANCE, AND MINIMIZATION OF TURBULENCE, NOISE AND PRESSURE DROP FOR SUPPLY, RETURN, EXHAUST AND VENTILATION AIR QUANTITIES INDICATED.

B. FLEXIBLE DUCT CONNECTIONS:

1. PROVIDED WHERE AIR HANDLERS, FANS, AND BLOWERS CONNECT TO DUCTWORK WHEN NOT INTERNALLY ISOLATED.

2. AT LEAST 4 INCHES LONG.

3. CONNECTED ON EACH SIDE TO METAL (METAL DUCTWORK, AIR HANDLING APPARATUS, OR HEAVY GAUGE STEEL SLEEVES).

C. LOW PRESSURE METAL TURNING VANES:

D. MANUAL VOLUME DAMPERS:

(OTHER THAN THOSE SPECIFIED AS BEING INTEGRAL WITH EACH REGISTER, DIFFUSER AND OTHER AIR OUTLET OR INLET):

- 1. PROVIDE WHERE INDICATED IN THE COMPLETE AIR DISTRIBUTION SYSTEM(S) (INCLUDING DUCTWORK RETURN AIR PLENUMS, ETC.) TO ALLOW COMPLETE BALANCING OF THE AIR SUPPLY, RETURN, VENTILATION AND EXHAUST SYSTEM(S).
- 2. OPPOSED BLADE TYPE.
- 3. PROVIDED SO THAT ALL DAMPER ADJUSTMENTS CAN BE MADE FROM OUTSIDE THE COMPLETED DUCTWORK WITHOUT NECESSITY FOR PUNCTURING OR OTHERWISE PENETRATING DUCTWORK AND/OR IT'S VAPOR BARRIER.

3.0 EXECUTION

- A. CONSTRUCT ALL DUCTWORK AND ACCESSORIES IN ACCORDANCE WITH THE LATEST INDICATED EDITIONS OF APPLICABLE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION CONSTRUCTION STANDARDS.
- B. STREAMLINE ALL DUCTWORK TO THE FULL EXTENT PRACTICAL AND EQUIP WITH PROPER AND ADEQUATE DEVICES TO ASSURE PROPER BALANCE AND QUIET DRAFTLESS DISTRIBUTION OF INDICATED AIR QUANTITIES.
- C. PROTECT ALL DUCTWORK AND SYSTEM ACCESSORIES FROM DAMAGE DURING CONSTRUCTION UNTIL ARCHITECT'S FINAL ACCEPTANCE OF PROJECT.
- D. PRIOR TO DUCTWORK FABRICATION, VERIFY IF ALL DUCTWORK AS DIMENSIONED AND GENERALLY SHOWN WILL SATISFACTORILY FIT ALLOCATED SPACES. TAKE PRECAUTIONS TO AVOID SPACE INTERFERENCE WITH BEAMS, COLUMNS, JOISTS, PIPES, LIGHTS, CONDUIT, OTHER DUCTS, EQUIPMENT, ETC. NOTIFY ARCHITECT IF ANY SPATIAL CONFLICTS EXIST AND THEN OBTAIN ARCHITECT'S APPROVAL OF NECESSARY ROUTING. MAKE ANY SUCH NECESSARY REVISIONS WHICH ARE MINOR AT NO ADDITIONAL COST
- E. CAREFULLY CORRELATE ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS TO PROVIDE PROPER CONNECTIONS, ELBOWS, AND BENDS WHICH MINIMIZE NOISE AND PRESSURE DROP.
- F. PROPERLY SUSPEND ALL DUCTWORK SO THAT NO OBJECTIONABLE CONDITIONS RESULT (SUCH AS VIBRATION, SAGGING, ETC.).
- G. INSTALL ALL FLEXIBLE ROUND DUCTS WITHOUT KINKS OR SIMILAR OBSTRUCTIONS SO THAT PRESSURE DROP IS MINIMIZED. CUT AND REMOVE EXCESS LENGTHS AS NECESSARY.
- H. INSTALL HORIZONTAL RIGID DUCTWORK AS HIGH AS PRACTICAL ABOVE SUSPENDED CEILINGS SO THAT MOVABLE LIGHT FIXTURES MAY BE RELOCATED WITHOUT INTERFERENCE TO MEET ANY FUTURE PARTITION RELOCATION REQUIREMENTS.

3.02 HANGERS AND SUPPORTS:

A. GENERAL: COMPLY WITH LATEST APPLICABLE SMACNA CONSTRUCTION STANDARDS.

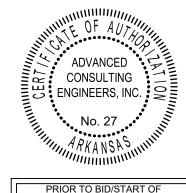
B. FASTENERS: SECURE HANGERS TO STEEL BEAMS OR METAL DECK WITH BEAM CLAMPS TO DROP THROUGH CONNECTIONS FROM METAL OR CONCRETE DECK. REFER TO THE REQUIREMENTS OF THE SECTION ENTITLED "COMMON REQUIREMENTS FOR MECHANICAL WORK".

3.03 INSULATED DUCT:

A. WHERE DUCTS WILL BE INSULATED. MAKE PROVISION FOR NEAT INSULATION FINISH AROUND DAMPER OPERATING QUADRANTS, SPLITTER ADJUSTMENT CLAMPS, ACCESS DOORS, AND SIMILAR OPERATING DEVICES. A METAL COLLAR EQUIVALENT IN DEPTH TO INSULATION THICKNESS AND OF SUITABLE SIZE TO WHICH INSULATION MAY BE FINISHED SHALL BE MOUNTED ON DUCT.



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CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT T THE ATTENTION OF THE ARCHITEC ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT O FAILURE TO VISIT THE SITE PRIOR

PO BOX 427 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF ROGERS, AR 72756 CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM PH 479.631.1712 || TO ENSURE PROPER SPACE AND FX 479.631.1854 WITH ANY ISSUES.

TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE





Revision Schedule	Description	
Revis	Rev.# Date	
NEW OFFICE WAREHOUSE 5-BAY BLDG.		MTNWA INVESTMENTS, LLC 1457 E. ROBINSON AVE. SPRINGDALE, AR 72764
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	GENERAL NOT	ES	ABBREVIATIONS	
GENERAL NOTES	7. ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS, GAS	NO EXCEPTIONS.	ACU AIR CONDITIONING UNIT AFF ABOVE FINISHED FLOOR	
 REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, 	BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED	17. HOT WATER RECIRCULATING BALANCING VALVE VALVES TO BE BELL & GOSSET CIRCUIT SETTER (OR WATTS	AHJ AUTHORITY HAVING JURISDICTION BHP BRAKE HORSEPOWER	-
CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS	RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.	EQUIVALENT) WITH INTEGRAL READOUT PORTS, ADJUSTMENT KNOB, DRAIN CONNECTION, AND POSITIVE SHUTOFF.	BHP BRAKE HORSEPOWER BOH BACK OF HOUSE BTUH BRITISH THERMAL UNIT PER	_
(VERIFY).	8. APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION	18. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES	HOUR C COMMON	
 ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, 	AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC,	AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.	CAP CAPACITY CC COOLING COIL	-
ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE	ETC. CODES AND REGULATIONS. THE CONTRACTOR SHALL COORDINATE WITH HIS MANUFACTURE SUPPLIERS AND SHALL	19. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE	CD CONDENSATE DRAIN CFF CAPPED FOR FUTURE	
3. CODES: COMPLETE INSTALLATION OF THE PLUMBING SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL,	INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID.	TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.	CFM CUBIC FEET PER MINUTE CI CAST IRON CO CLEANOUTS	
ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL AHJ.	9. FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN	20. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.	COMB COMBUSTION CONT CONTINUE, CONTROL	
4. PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED	DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA AND LOCAL CODES. PROVIDE DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND	21. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.	CONTR CONTRACTOR COTG CLEANOUTS TO GRADE	
ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL EQUIPMENT, PIPING, ETC.	ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.	22. REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN	CW COLD WATER D DIAMETER DB DRY BULB, DECIBEL	
 A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL. B. COORDINATE FINAL LOCATION AND ROUTING WITH 		STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	DIM DIMENSION DN DOWN	
CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES WORK.	PLUMBING NOTES 1. CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS	23. CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING.	DS DOWN SPOUT EFF EFFICIENCY	
C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC.	TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER SYSTEM IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S	CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.	ELEC ELECTRIC EWC ELECTRIC WATER COOLER	<u>EF-</u>
AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL SYSTEM.	RECOMMENDATIONS, AND LOCAL CODES. CONNECT TO EACH FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES,	INSULATION/LINING NOTES	EXT EXTERIOR, EXTERNAL F FAHRENHEIT	
D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.	VACUUM BREAKERS, REGULATORS, UNIONS, ETC. AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS.	1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.	FCOFLOOR CLEANOUTSFCUFAN COIL UNITFDFLOOR DRAIN	
5. PLUMBING CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL PLUMBING EQUIPMENT WITHIN THE	REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE ON PLANS.		FLR FLOOR FPM FEET PER MINUTE	-
STRUCTURE.	2. HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE		FPS FEET PER SECOND FS FLOOR SINK	-
6. ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO	AND HOT WATER ON THE LEFT HAND SIDE.		G GAS GAL GALLONS CRC CRAINS REP. CALLON	
BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO	 HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS. 		GPGGRAINS PER GALLONGPMGALLONS PER MINUTEGWBGYPSUM WALLBOARD	
BIDDING.	4. VENT STACKS: COORDINATE VENT STACK WITH HVAC		HB HOSE BIBB HD HEAD	_
7. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.	EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKES.		HEDV HOSE END DRAIN VALVE HORIZ HORIZONTAL	
8. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED	5. CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT CODE AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL		HP HORSEPOWER HPCW HIGH PRESSURE COLD WATER	
PIPING IN FINISHED ROOMS.	AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO	PIPE MATERIALS	HVAC HEATING, VENTILATING, AND AIR CONDITIONING HW HOT WATER	-
9. PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.	BE FITTED WITH CARPET INSERTS. LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL		HW HOT WATER HWC HOT WATER RE-CIRCULATION HX HEAT EXCHANGER	
10. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO	CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS.	APPROVED PLUMBING MATERIAL: All sanitary system materials shall be listed by an approved	ID INDIRECT DRAIN, INSIDE DIAMETER	
AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.	6. SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH CURRENT CPC.	LISTING AGENCY.	IE INVERT ELEVATION IN INCH	-
11. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF	7. SHUT–OFFS: PROVIDE 1/4 TURN BALL VALVE ANGLE STOP SHUT–OFF VALVES AND BRAIDED STAINLESS STEEL FLEX	1. UNDERGROUND SERVICE ENTRANCE PIPING: COPPER, TYPE K. PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.	KS KITCHEN SINK KW KILOWATT L LONG, LENGTH	
MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.	CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT	2. ABOVEGROUND WATER DISTRIBUTION PIPING IN RESTROOMS: PEX.	L LONG, LENGTH LAV LAVATORY LB POUND	
12. CABLE TRAYS: PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" ABOVE	BATH/SHOWERS.	3. STORM, VENT AND GRAVITY WASTE: NO-HUB CAST IRON	MBH THOUSAND BTU PER HOUR MECH MECHANICAL	-
AND TO THE SIDE OF CABLE TRAYS.	8. TUB SPOUTS SHALL BE THREADED (NO PUSH-ON FITTINGS).	ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE	MCA MIN. CIRCUIT AMPACITY MOCP MAX. OVER CURRENT	
13. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.	9. TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.	COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.	PROTECTION MPG MEDIUM PRESSURE GAS MTD MOUNTED	
14. ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT	10. ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS	COUPLINGS: STANDARD COUPLINGS SHALL CONFORM TO CISPI 310 AND ASTM C 1277. SHIELD ASSEMBLIES SHALL CONSIST OF A STAINLESS STEEL BI-DIRECTIONAL CORRUGATED SHIELD; STAINLESS-STEEL BANDS AND	OD OUTSIDE DIMENSION/DIAMETER OVERFLOW DRAIN/DECK DRAIN	
TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK	WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE	TIGHTENING DEVICES; AND A ASTM C 564, RUBBER SLEEVE WITH INTEGRAL CENTER STOP. COUPLINGS SHALL BEAR THE NSF TRADEMARK, AND BE	OPNG OPENING P PUMP	
OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.	HANDI-LAV GUARD OR EQUIVALENT. OFFSET P-TRAPS TO CLEAR WHEELCHAIR ACCESS.	MANUFACTURED IN THE USA.	PD PRESSURE DROP, PUMPED DRAIN	
COORDINATION REQUIREMENTS	11. GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER	EXCEPTION: SOLID WALL PVC SCH. 40 ASTM D2665 IS APPROVED ONLY FOR UNDERSLAB PIPING WITH PROPER TRENCHING PER ASTM D2321, FOR	POC POINT OF CONNECTION PRV PRESSURE REDUCING VALVE	
1. IRRIGATION: COORDINATE WITH IRRIGATION CONTRACTOR FOR THEIR WATER SUPPLY REQUIREMENTS AND LOCATIONS.	EQUIPMENT LISTINGS, LOCAL CODES, AND NFPA. 12. GAS CONNECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT	PARKING GARAGE AND BUILDING WITH MAXIMUM 3 STORIES. PRIOR TO BIDDING, CONTRACTOR SHALL CONTACT LOCAL AHJ FOR ACCEPTANCE OF	PRESSURE RELIEF VALVE PS PUMPED STORM DRAINAGE PSIG POUNDS PER SQUARE INCH	
2. GAS: CONTRACTOR/GAS COMPANY SHALL FINALIZE GAS	ASSEMBLIES FOR ALL GAS FIRED KITCHEN EQUIPMENT PER LOCAL JURISDICTIONS.	PVC PIPING UNDERSLAB. EXPANSION LOOP OR EXPANSION JOINTS SHALL BE PROVIDED PER PIPING MANUFACTURER RECOMMENDATION.	GAUGE PW PUMPED SANITARY WASTE	
METER AND GAS SERVICE LOCATIONS.	13. WATER HAMMER ARRESTERS: PROVIDE AT THE END OF HOT	NOTE 1: PVC PIPING SHALL NOT BE USED FOR RECEPTOR & TRAP ARM	RD ROOF DRAIN REF REFERENCE	
3. UTILITIES: COORDINATE WITH SITE UTILITY CONTRACTOR AND CIVIL DRAWINGS FOR UTILITY CONNECTIONS AND	AND COLD WATER LINES SERVING TWO OR MORE FIXTURES; SIZE IN ACCORDANCE WITH PLUMBING AND DRAINAGE	WHERE WASTE TEMPERATURE CAN EXCEED 110°F. THIS INCLUDE PIPING AND RECEPTORS FOR 3 COMP SINK, DISHWASHER, COMMERCIAL LAUNDRY	PRBP REDUCED PRESSURE BACKFLOW PREVENTER	
EXTENSIONS. 4. ROOF DRAINAGE: COORDINATE WITH GENERAL CONTRACTOR	INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS	SINK, AND CONDENSATION DRAIN FOR GAS FIRED EQUIPMENT.	RPMREVOLUTIONS PER MINUTESCHSCHEDULESCWSOFTENED COLD WATER	
4. ROOF DRAINAGE: COORDINATE WITH GENERAL CONTRACTOR FOR ROOF DRAIN AND OVERFLOWS, SCUPPER DRAINS, AND CONDENSATE DRAINS.	LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC. 14. TRAP PRIMERS: PROVIDE TRAP PRIMERS AND PIPING FOR	NOTE 2: TRAP ARM FOR WASTE RECEPTOR OF SODA DISPENSER SHALL BE MADE OF SOLID CORE PVC SCH. 40 ASTM D2665. CAST IRON PIPING IS NOT ALLOWED FOR HIGH ACIDITY DRAINS. (PH<3)	SD STORM DRAIN SF SQUARE FOOT	N M A
5. PLUMBING FIXTURES: COORDINATE WITH ARCHITECTURAL AND	DRAINS AND FLOOR SINKS. ARRANGE PIPING TO ACHIEVE EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP	NOTE 3: FOAM (CELLULAR) CORE PVC PIPING/FITTING IS PROHIBITED BY	SH SHOWER SO STORM OVERFLOW	AN AN
OTHER TRADES EXACT LOCATION OF ALL PLUMBING FIXTURES.	PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS.	ENGINEERING.	SP STATIC PRESSURE SR SUDS RELIEF SS STAINUESS STEEL	
6. PIPING: COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS	15. P–TRAPS: ALL EXPOSED P–TRAPS SHALL BE	4. CONDENSATE DRAIN PIPING: CPVC OR COPPER TYPE M.	SS STAINLESS STEEL, SANITARY SEWER SQ SQUARE	
AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE	15. P-TRAPS: ALL EXPOSED P-TRAPS SHALL BE CHROME-PLATED BRASS.	5. TEMPERATURE AND/OR PRESSURE RELIEF VALVE DISCHARGE PIPING: COPPER TYPE M	TYP TYPICAL UH UNIT HEATER	
CONSTRUCTION.	16. PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED.	6. GAS PIPING: STEEL PIPE, ASTM A 53; TYPE E OR S;GRADE B;	UON UNLESS OTHERWISE NOTED V VENT	
		SCHEDULE 40.	VTR VENT THRU ROOF W WASTE, WATT, WIDE	
			WC WATER CLOSET WCO WALL CLEANOUTS WH WALL HYDRANT	
			WH WALL HIDRANT WM WASHING MACHINE	
APPLICABLE CODES				4
				4
THESE DRAWINGS ARE BASED ON THE FOLLOWING	CODES:			
 2012 INTERNATIONAL BUILDING CODE (IBC) 2010 ARKANSAS STATE MECHANICAL CODE (II 	MC)			DWG
2009 INTERNATIONAL ENERGY CONSERVATION				P000

DWG	
P000	LEGEND, GENERAL NOTES
P100	WATER, SEWER, GAS PLU
P400	ENLARGED PLUMBING PL
P500	DETAILS
P600	ISOMETRICS
P700	SPECIFICATIONS

SYMBOLS

GENERAL		
ARCHITECTURAL BACKGROUND		PIPE CAP
(THIN LINE)		PIPE PLUG
NEW MECHANICAL WORK (HEAVY LINE)		UNION
		FLANGE
MATCHLINE OR PROPERTY LINE	<u>i</u> ^i	CLEANOUT
		WYE STRAINER
<u>SECTION IDENTIFICATION</u> (DETAIL SIMILAR)		WYE STRAINER WITH CAPPED HOSE END BLOWDOWN VALVE
 INDICATES DIRECTION OF CUTTING PLANE		BALL VALVE
	^ \	CHECK VALVE
 LETTER INDICATES SECTION (NO. INDICATES DETAIL)	——————————————————————————————————————	BALANCING OR PLUG VALVE
 SHEET NUMBER WHERE SECTION IS	I\	BUTTERFLY VALVE
 DRAWN SHEET NUMBER WHERE SECTION IS		PRESSURE REDUCING VALVE (PRV)
TAKEN	4	AUTOMATIC CONTROL VALVE, 2-WAY
EQUIPMENT		AUTOMATIC CONTROL VALVE, 3-WAY
TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN)		RELIEF VALVE
	——————————————————————————————————————	BALANCING/MEASURING VALVE
PIPING		FLEXIBLE CONNECTION IN PIPING
SANITARY SEWER (SS)	——————————————————————————————————————	PIPE ANCHOR
PUMPED WASTE		PIPE ALIGNMENT GUIDE
VENT (V) RAIN LEADER	I	PIPE SUPPORT
OVERFLOW RAIN LEADER	iPS	
CONDENSATE DRAIN	ee	VALVE STATION OR ASSEMBLY
DOMESTIC WATER (DW)	↓ ID	INDIRECT DRAIN, PIPE TO DRAIN
HOT WATER, POTABLE, 120°F (DHW)		FLOOR DRAIN
HOT WATER, POTABLE, TEMPERATURE OTHER THAN 120'F	I	
HOT WATER CIRCULATING (HWC), POTABLE,	<i>—</i> /-	HOSE BIBB
120°F HOT WATER CIRCULATING, POTABLE,	\$ \$	BREAK IN PIPING OR DUCTWORK
TEMPERATURE OTHER THAN 120F		PUMP
FUEL OIL FILL		
FUEL OIL SUPPLY	Q	PRESSURE GAUGE
FUEL OIL RETURN	Ψ	THERMOMETER
FUEL OIL VENT	————— + р/т	PRESSURE/TEMPERATURE
RELIEF VENT		TEST PORT
NATURAL GAS		REDUCED PRESSURE BACKFLOW
MEDIUM PRESSURE NATURAL GAS		PREVENTER
IRRIGATION	DCVA	DOUBLE CHECK VALVE ASSEMBLY

RACTOR SUBSTITUTIONS & REVISIONS

JBSTITUTIONS & REVISIONS:

PROPOSALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO RIAL OR DOING WORK. FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND NATIONS, THE MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM THE COST ANALYSIS OF THE SUBSTITUTION PROPOSAL. CONTRACTOR TO COORDINATE WITH DETERMINE ASSOCIATED DESIGN AND PERMITTING COSTS. CONTRACTOR SHALL BE OR OTHER COSTS ASSOCIATED WITH UNFORESEEN ISSUES RESULTING FROM SUBSTITUTIONS OR

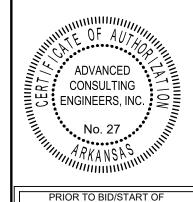
RE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, MENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT IT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO ER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS TION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, SETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

DRAWING INDEX

DESCRIPTION ES & DRAWING INDEX

UMBING PLAN AND SCHEDULES LANS



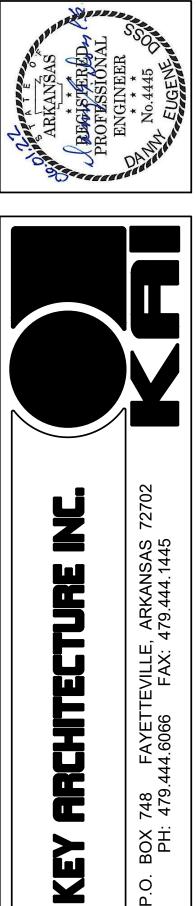


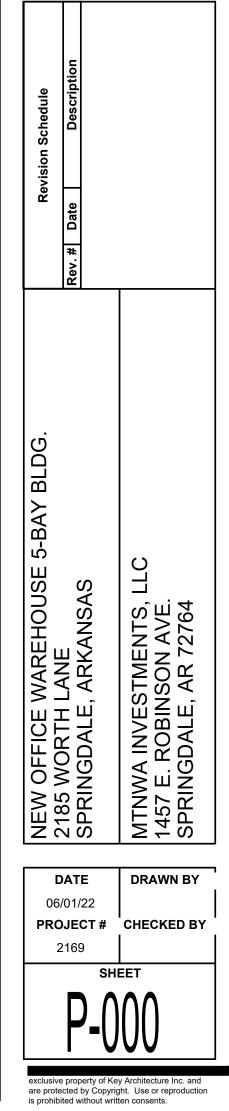
CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO

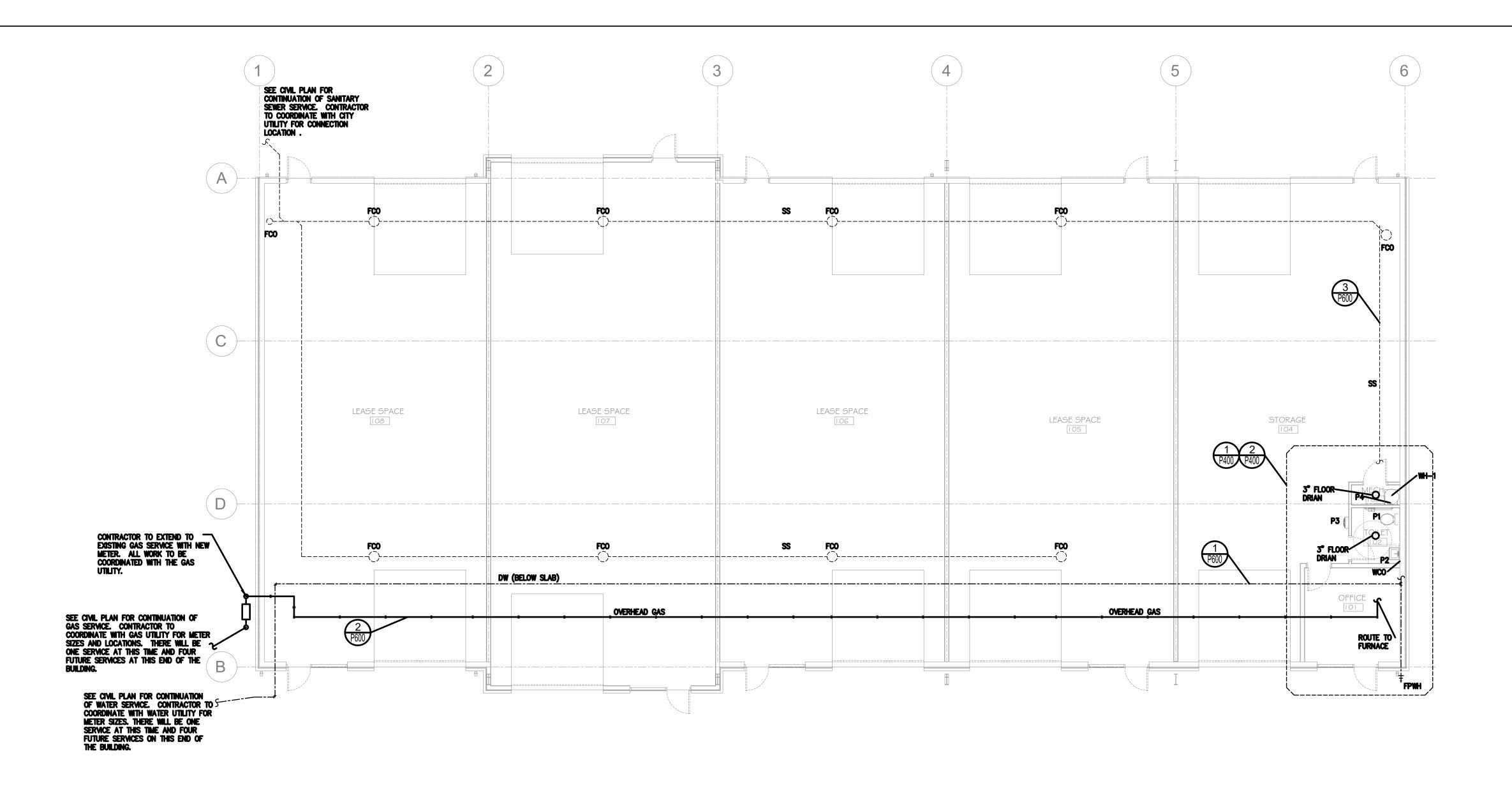
BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITEC ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR

FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE PO BOX 427 ALL LOUVER SIZES AND LOCATIONS ROGERS, AR 72756 PRIOR TO START OF

PH 479.631.1712 FX 479.631.1854 WITH ANY ISSUES.







		PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE	MANUFACTURER	CATALOG NUMBER	TRIM	NOTES	RUNOUT SIZES (MINIMUM)		RUNOUT SIZES (MINIMUM)		
			NOMBER			CW	HW	WASTE	VENT	
P1	WATER CLOSET (HC) FLOOR MOUNT	AMERICAN STANDARD FLUSH TANK	CADET PRO #215AA.105 RH #215CA.105 LH	SEAT: CENTOCO 500TSCC-001 (WHITE)	B,F,G	1/2"		4"	2"	
P2	WALL HUNG (HC) LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	FAUCET: DELTA 2529–HDF CARRIER: ZURN Z–1231–SL DRAIN: MCGUIRE #149 P–TRAP: MCGUIRE #V8912C	A,B,C,D,E,G	1/2"	1/2"	1 1/4"	1 1/2"	
P3	DRINKING FOUNTAIN (HC)	HALSEY TAYLOR	HTHB- Hac8pv-wf	WATTS CA-431-1 CARRIER	B,G	1/2"		1 1/4"	1 1/2"	
P4	SERVICE SINK	FIAT	MSB-2424	FAUCET: MOEN 8124	B,C	3/4"	3/4"	3"	1 1/2"	
ACCESSORI	IES:						-	-	-	

A. CHROME PLATED BRASS "P" TRAP.

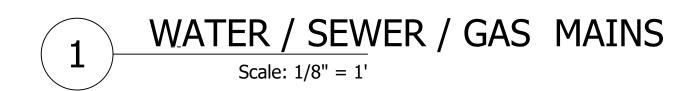
B. FLEXIBLE SUPPLIES WITH KEYED STOPS ZURN QV332. C. ACCEPTABLE MANUFACTURERS ARE AMERICAN STANDARD, CRANE, AND KOHLER.

D. DRAIN LINE SHALL BE WRAPPED WITH INSULATION PER ADA REQUIREMENTS. TRUEBRO MODEL 402 WHITE OR EQUAL.

E. HOT WATER LINE SHALL BE INSULATED BETWEEN WALL AND FIXTURE. F. FLUSH CONTROL HANDLE TO BE LOCATED ON SIDE OF TANK WHICH COINCIDES WITH THE OPEN SIDE OF THE ACCESSIBLE STALL.

G. INSTALL PER ADA REQUIREMENTS.

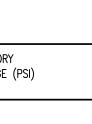
THERMAL EXPANSION TANK SCHEDULE									
MARK	MANUFACTURER MODEL	TOTAL VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAXIMUM WORKING PRESSURE	FACTORY PRECHARGE (P				
ET-1	WILKINS WTTA-5	3.5	2.1	150 PSIG	40				

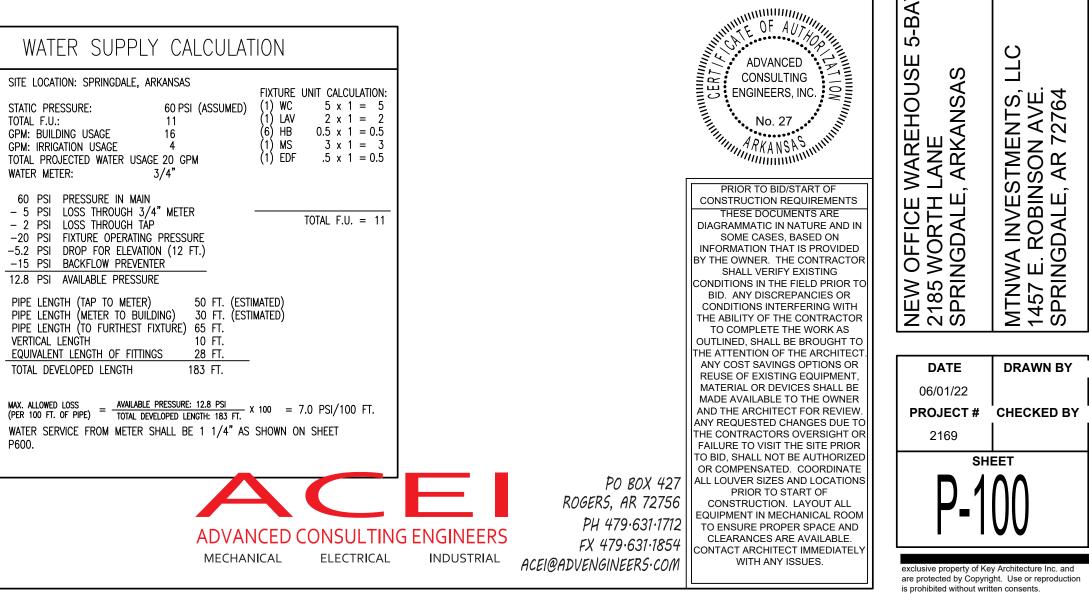


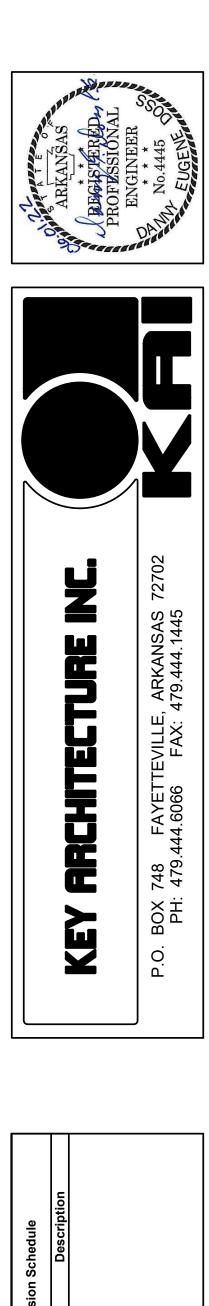
	WAT	ER HEATER	R SCHEDU	LE		
MARK	MANUFACTURER MODEL	INPUT KW TANK SIZE	VOLTZ HERTZ PHASE	RECOVERY, GPH RISE DEGREES F.	NOTES	
WH-1	WHIRLPOOL ELECTRIC WATER HEATER	1.5 KW 19 GAL.	120 V 60 HZ 1 PH	7 90	1,2,3	
2. FURNISH						

STATIC PRESSURE: TOTAL F.U.: WATER METER:

P600.

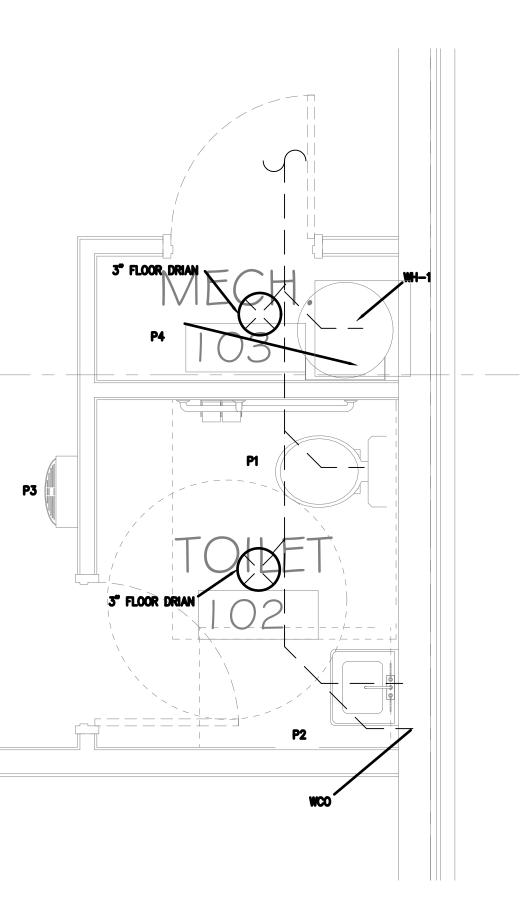






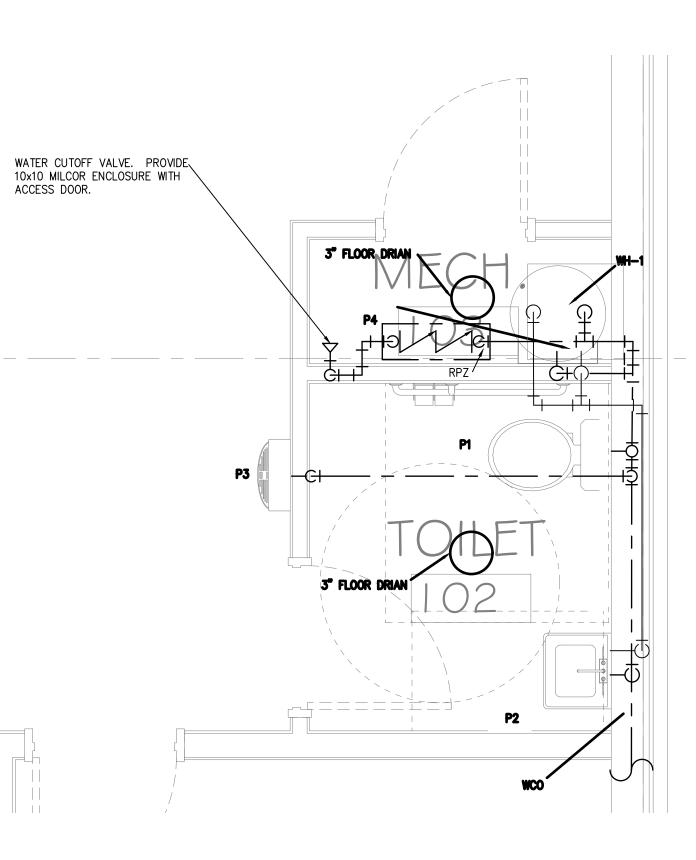
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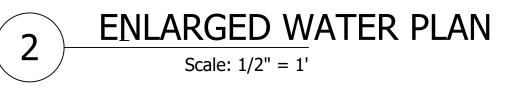
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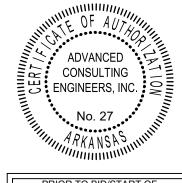


ENLARGED SEWER PLAN

Scale: 1/2" = 1'



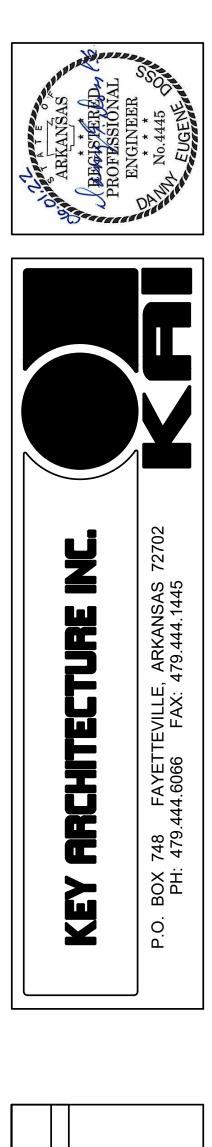




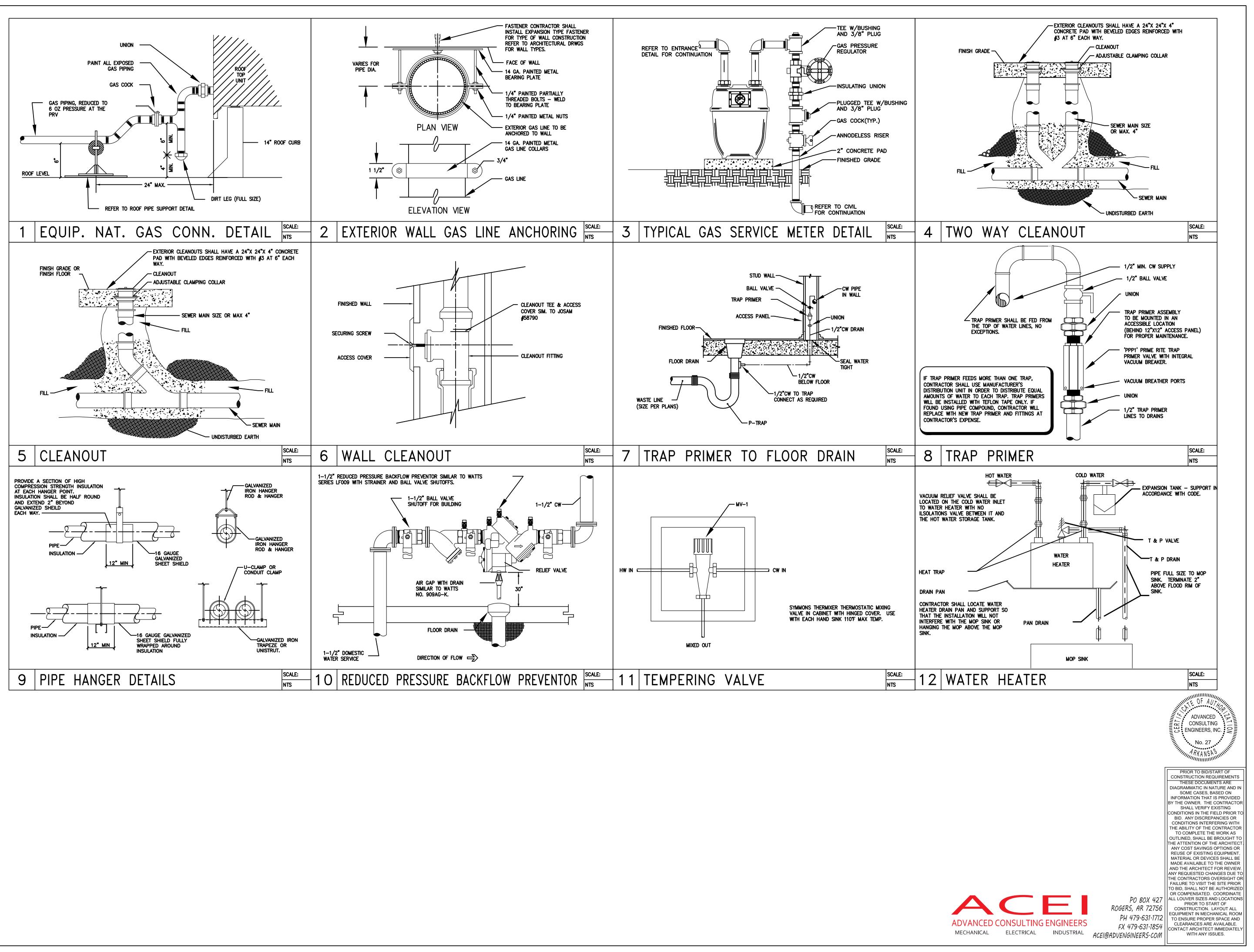
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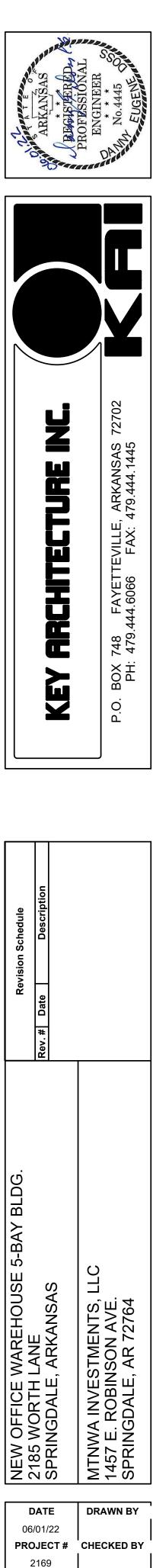


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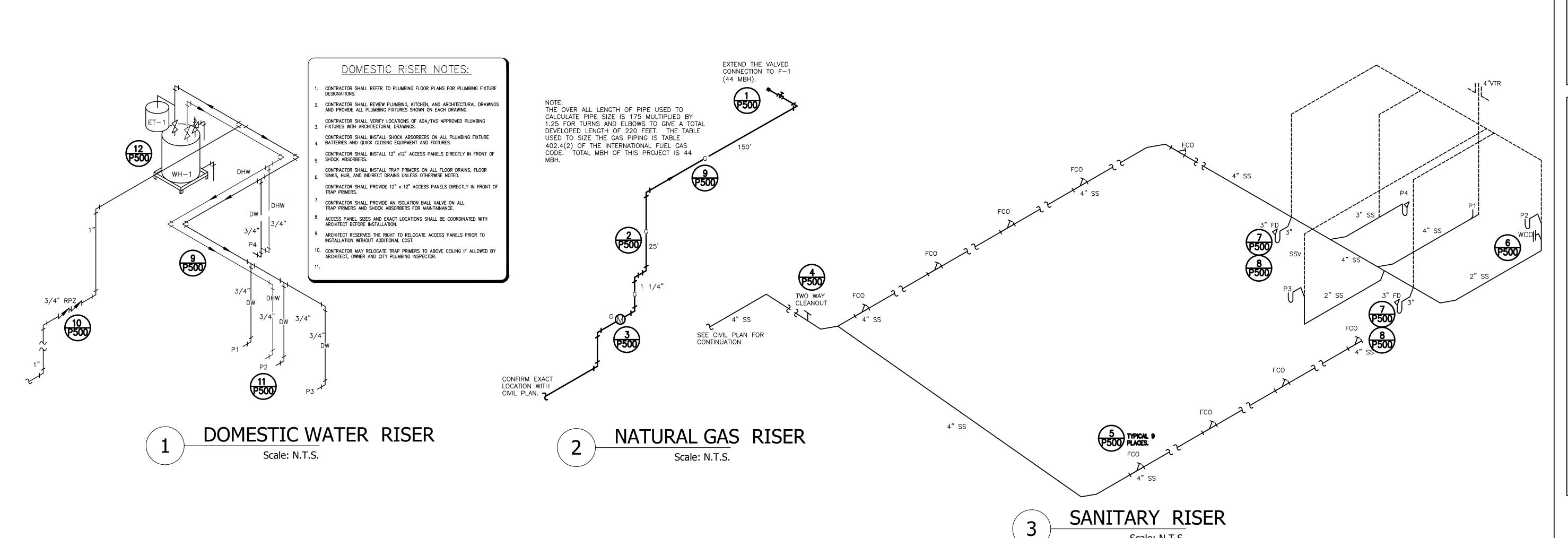




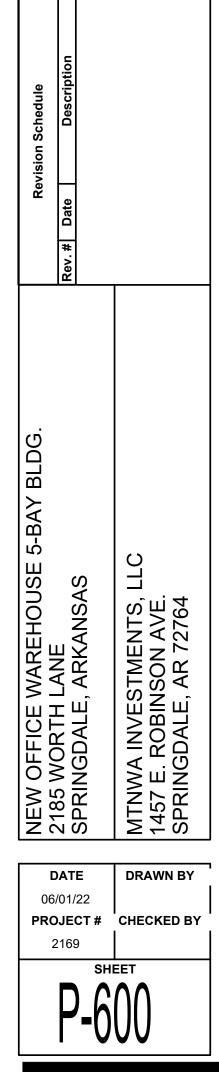
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ARCHITECTURE

KEY

FAYETTEVILLE, ARKANSAS 444.6066 FAX: 479.444.1445

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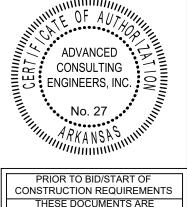
 PH 479.631.1712
 EQUIPMENT IN MECHANICAL ROOM

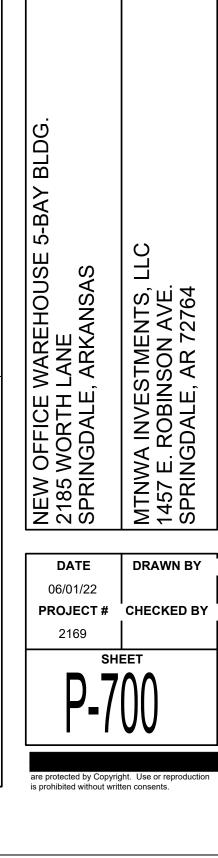
 FX 479.631.1854
 CLEARANCES ARE AVAILABLE.

 CONSTRUCTION: LATOCH ROOM
 CLEARANCES ARE AVAILABLE.

SECTION	ÓDRAIN, WASTE, AND VENT PIPING SYSTEM 15411	DOMESTIC WATER PIPING SYSTEM SECTION 15412
PART 1	GENERAL	PART 1 GENERAL
1.01	WORK INCLUDED:	1.01 WORK INCLUDED:
	UNDERGROUND DRAIN AND VENT PIPING.	A. WATER SERVICE PIPING.
	ABOVE GROUND DRAIN, WASTE, AND VENT PIPING. SANITARY SEWER SERVICE PIPING.	B. HOT AND COLD WATER PIPING.C. TEMPERATURE AND PRESSURE (T & P) RELIEF PIPING.
D. F	CONDENSATION DRIP AND OVERFLOW PIPING. CLEANOUTS.	D. VALVES. E. SHOCK SUPPRESSORS.
	FLOOR DRAINS.	E. SHUCK SUFFRESSURS.
1.02	RELATED WORK:	1.02 RELATED WORK:
Α.	SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.	A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS. B. SECTION 15005 MECHANICAL INSULATION.
1.03	SUBMITTALS:	1.03 SUBMITTALS:
Α.	SUBMIT MANUFACTURER'S DATA SHEETS ON CLEAN OUTS AND FLOOR DRAINS.	A. SUBMIT MANUFACTURE'S DATA SHEETS ON VALVES AND SUPPRESSORS.
В.	SUBMIT LIST OF PIPING PRODUCTS TO BE USED FOR THE LISTED SERVICES AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPLICABLE DATA.	B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND S MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPL
C.	SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF INSTALLED PIPING.	C. SUBMIT SHOP DRAWINGS OF SHOCK SUPPRESSORS LAYO
D.	SUBMIT SHOP DRAWINGS ON MANHOLES INDICATING MANUFACTURED ITEMS, REINFORCING STEEL REQUIREMENTS, ETC.	 D. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION OF INSTALLED PIPING. E. SUBMIT CERTIFICATE OF COMPLETION OF CHLORINATION.
PART 2	PRODUCTS	
2.01	PIPING:	PART 2 PRODUCTS
А.	UNDERGROUND DRAIN AND VENT PIPING INSIDE BUILDING AND TO FIVE FEET OUTSIDE BUILDING:	2.01 PIPING:
	1. SCHEDULE 40 PVC PIPE AND FITTINGS.	A. FOR UNDERGROUND WATER SERVICE PIPING OUTSIDE BU METER:
В.	ABOVE GROUND DRAIN AND VENT PIPING:	1. ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD WITH WROUGHT COPPER FITTINGS AND JOINTS MADE
	1. SCHEDULE 40 PVC PIPE AND FITTINGS.	SOLDER.
С.	WASTE ARMS FOR LAVATORIES, SINKS, AND URINALS:	2. THICKNESS CLASS 50, CEMENT LINED, SEAL COATE SPIGOT TYPE DUCTILE IRON WITH JOINTS MADE WIT
	 DWV COPPER PIPE WITH CAST BRASS ADAPTERS AND WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 50-50 SOLDER. 	COMPRESSION RINGS MANUFACTURED FOR THE PUF
	2. SCHEDULE 40 GALVANIZED STEEL PIPE WITH SCREWED	B. FOR UNDERGROUND WATER PIPING INSIDE BUILDING AND
D.	FITTINGS (OPTIONAL). UNDERGROUND SEWER PIPING OUTSIDE BUILDING TO SEWER MAIN:	OUTSIDE BUILDING 1. 1" AND SMALLER – ASTM B88 TYPE AS INDICATED SOFT COPPER TUBING WITH NO FITTINGS OR JOINTS
F	1. SCHEDULE 40 PVC PIPE AND FITTINGS.	UNDER SLAB. MAKE CONNECTIONS ABOVE SLAB US COPPER FITTINGS AND 95-5 SOLDER.
L. 2.02	CONDENSATION DRIP AND OVERFLOW PIPING: SOLVENT-CEMENT WELD.	2. 1–1/4" AND LARGER – ASTM B88 TYPE AS INDICA HARD COPPER TUBING WITH WROUGHT COPPER FIT MAKE WITH SIL-FOS SOLDER (15% SILVER CONTEN
Α.	PROVIDE CLEAN OUTS COMPATIBLE WITH TYPE OF DRAIN PIPING TO WHICH IT IS CONNECTED. PROVIDE COVERS COMPATIBLE WITH TYPE	C. FOR EXPOSED PIPING IN TOILET ROOMS AND OTHER FIN
	OF FLOOR OR WALL FINISH WITH CONSIDERATION GIVEN TO TRAFFIC CONDITIONS. MAKE CLEAN OUTS SAME SIZE AS PIPE THROUGH 4	USE CHROME PLATED BRASS PIPE WITH THREADED FITT
_	INCHES.	D. FOR ABOVE GROUND WATER AND T & P RELIEF PIPING USE ASTM B88 TYPE AS INDICATED ON DRAWINGS HARE
В.	FLOOR CLEAN OUT (FCO): CAST IRON WITH TAPERED BRASS PLUG, THREADED ADJUSTABLE HOUSING, AND ROUND NICKEL BRONZE	WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WI
	SCORIATED TOP.	E. SOLDER CONTAINING LEAD SHALL NOT BE USED ON PO SYSTEMS.
C.	CLEAN OUT TO GRADE (COTG): SAME AS FCO EXCEPT WITH HEAVY DUTY CAST IRON SCORIATED TOP. SET COTG IN 10-INCH DIAMETER	
	CONCRETE BASE 4-INCHS THICK AND FLUSH WITH FINISHED GRADE.	2.02 VALVES:
2.03	FLOOR DRAINS:	A. PROVIDE VALVES WITH SUITABLE MATERIALS INCLUDING I BALLS, GASKETS, LININGS, AND LUBRICANTS FOR THE S
Α.	STANDARD FLOOR DRAIN (FD): LACQUERED CAST IRON BODY WITH	TEMPERATURE, AND PRESSURE TO WHICH THEY WILL BE FURNISH WITH SOLDER OR SCREWED CONNECTIONS.
	FLANGE, CLAMPING COLLAR WITH SEEPAGE OPENINGS, AND ADJUSTABLE SQUARE SATIN BRONZE STRAINER. FLOOR DRAINS ARE	B. GATE VALVES: BRONZE, NON-RISING STEM, INSIDE CRE
	2 INCHES UNLESS SHOWN OTHERWISE.	WEDGE. C. GLOBE OR ANGLE VALVES: BRONZE, RISING STEM, INSI
	EXECUTION	RENEWABLE COMPOSITION DISC.
3.01	PREPARATION:	D. CHECK VALVES: BRONZE WITH SWING DISC.
	SWAB PIPES AND CLEAN JOINTS AND FITTINGS INSIDE AND OUT PRIOR TO MAKING CONNECTIONS. USE PROPER LUBRICANTS ON COMPRESSION GASKETS.	E. FREEZE PROOF HOSE BIBBS (FPHB): 3/4" ANTI-SIPHO NON-FREEZE TYPE WITH BRONZE CASING AND BOX WITI HANDLE. FURNISH FOR PROPER WALL THICKNESS.
3.02	INSTALLATION:	
Α.	UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SLOPE HORIZONTAL	PART 3 EXECUTION
	DRAIN AND VENT PIPING IN ACCORDANCE WITH THE FOLLOWING:	3.01 PREPARATION:
	<u>SIZE</u> <u>MINIMUM_SLOPE</u> 3" AND SMALLER 1/4" PER FOOT 4" AND LARGER 1/8" PER FOOT	A. REAM PIPES AND TUBING AND THOROUGHLY CLEAN INSI OUTSIDE PRIOR TO CONNECTING.
	4 AND LARGER 1/8 PER FOOT	3.02 INSTALLATION:
В.	BURY ALL UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED GRADE.	A. SLOPE WATER PIPING MINIMUM OF 1 INCH IN 40 FEET TO DRAIN AT ALL LOW POINTS.
C.	MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL AND DO NOT OVER TIGHTEN.	B. BURY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM C BELOW FINISHED GRADE.
D.	ARRANGE WITH LOCAL UTILITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.	C. USE ELECTRICALLY INSULATING TYPE CONNECTIONS FOR DISSIMILAR METALS SUCH AS BRASS VALVES OR ADAPTE INSULATING COUPLINGS.
3.03	TESTING:	D. USE PROPER ADAPTERS FOR SCREWED VALVES TO COPI
	BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND	E. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPO CONNECT THREADED PIPE.
	PROVE LEAK FREE:	F. CONNECT TO T & P RELIEF VALVE AND EXTEND FULL S
	1. WATER TEST – SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.	APPROVED DISCHARGE POINT.
	 AIR TEST – SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL) 	G. WHERE PIPE PASSES THROUGH FINISHED WALL, CEILING, PROVIDE CHROME PLATED ESCUTCHEON PLATE SECUREL TO PIPE. INSTALL PIPE SO THAT NO THREADS SHOW.
		H. ARRANGE WITH LOCAL UTILITY FOR WATER TAP AND MET

	3.02	INSTALLATION CONTINUED: INSTALL GATE VALVE TO ISOLATE OR SHUT–OFF EQUIPMENT OR	3.02	INSTALLATION:			
	1.	BRANCH LINES. USE GLOBE VALVES WHERE ADJUSTABLE FLOW OR THROTTLING IS REQUIRED.	A.	SLOPE NATURAL GAS PIPING MINIMUM OF 1 INCH IN 40 FEET AND PROVIDE MINIMUM 12 INCH DEEP DRIP POCKET SAME SIZE AS PIPE, AT ALL LOW POINTS AND AT FINAL CONNECTIONS TO EQUIPMENT.		 CELLULAR GLASS: INORGANIC, INCOMBUSTIBLE, FOAMED OR CELLULATED GLASS WITH ANNEALED, RIGID, HERMETICALLY SEALED CELLS. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE. 	
		INSTALL HOSE BIBBS CENTERLINE, 2 FEET ABOVE FLOOR OR GRADE. INSTALL GARBAGE CAN WASH VALVE 4 FEET ABOVE FLOOR OR DRAIN.		PROVIDE MALLEABLE IRON REMOVABLE SCREW-ON CAP ON BOTTOM OF DRIP POCKET.		SUBJECT TO COMPLIANCE WITH LOCAL REQUIREMENTS:	
ELIEF PIPING.	K.	. PROVIDE PRV TO LIMIT MAXIMUM STATIC PRESSURE AT PLUMBING FIXTURES TO 70 PSIG. SUBMIT PRESSURE DATA TAKEN AT DIFFERENT TIMES AS APPROVED OR INSTALL PRV AT SERVICE CONNECTION OR IN BUILDING. PROVIDE PRV AT OTHER SEPARATE		BUY UNDERGROUND GAS PIPING MINIMUM OF 2 FEET BELOW FINISHED GRADE. PROVIDE ONE OR MORE ANODES, SIZED FOR PIPE SIZE AND LENGTH		A. FLEXIBLE ELASTOMERIC: CLOSED-CELL, SPONGE OR EXPANDED-RUBBER MATERIALS.	Г
	1	FIXTURES WHEN SHOWN ON DRAWINGS.		OF UNDERGROUND SERVICE. USE FLEXIBLE CONNECTOR AND GAS COCK FOR FINAL CONNECTION		B. HIGH-TEMPERATURE, MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.	
QUIREMENTS.	۲.	WITH SANITARY DRAINAGE SYSTEM OR OTHER NON-POTABLE SOURCES. PROVIDE REDUCED PRESSURE TYPE BACKFLOW PREVENTERS WHEN REQUIRED.	E.	TO EACH APPLIANCE OR OTHER GAS FUELED UNIT. PROVIDE DIELECTRIC UNION WHERE PIPING EMERGES FROM UNDERGROUND.		C. HIGH-TEMPERATURE, MINERAL-FIBER BOARD INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.	
	3.03	TESTING: . BEFORE CONCEALING OR INSULATING, TEST DOMESTIC WATER PIPING	F.	WELD ALL CONNECTIONS WHERE PIPING MUST BE CONCEALED. PROVIDE VENTILATED PIPE SLEEVES WHERE REQUIRED.		D. MINERAL-FIBER, PERFORMED PIPE INSULATION.E. MINERAL-FIBER, PIPE AND TANK INSULATION. MINERAL OR	
VALVES AND SHOCK	Α.	AND PROVE LEAK FREE. SUBJECT SYSTEM TO MINIMUM HYDROSTATIC PRESSURE OF 100 PSIG AND HOLD FOR ONE HOUR.	G.	USE TEFLON TAPE OR OTHER APPROVED JOINT COMPOUND TO CONNECT THREADED PIPE.		GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. F. POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC	
USED AND STATE THEIR D OTHER APPLICABLE DATA.	3.04	STERILIZATION:	H.	ARRANGE WITH LOCAL UTILITY FOR GAS TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH NATURAL GAS SERVICE.		INSULATION. G. POLYSTYRENE: RIGID, EXTRUDED CELLULAR POLYSTYRENE	
RESSORS LAYOUT PROPOSED. TUAL LOCATION AND ROUTING	A.	. AFTER TESTS HAVE BEEN SUCCESSFULLY COMPLETED, THOROUGHLY FLUSH AND STERILIZE THE COMPLETED DOMESTIC WATER SYSTEM IN ACCORDANCE WITH AWWA C601.	Ι.	MAKE SURE ALL PIPING CONCEALED IN WALLS OR OTHER AREAS ARE PROPERLY VENTED. AT TOP OF SOLID WALLS VENT WITH OPENING WHICH IS 2 TIMES THE DIAMETER OF THE PIPE.	2.02	INTENDED FOR USE AS THERMAL INSULATION. INSULATING CEMENTS:	
CHLORINATION.	B.	. FLUSH ENTIRE SYSTEM AFTER STERILIZATION UNTIL RESIDUAL CHLORINE CONTENT IS NO GREATER THAN 0.2 PARTS PER MILLION.		PROVIDE VENTILATED PIPE SLEEVES UNDER ALL PAVING AND OTHER HARD SURFACES.	Α.	MINERAL—FIBER, HYDRAULIC—SETTING INSULATING AND FINISHING CEMENT: COMPLY WITH ASTM C 449/C 449M.	
	C.	. CHLORINATE ONLY WHEN THE BUILDING IS UNOCCUPIED.		BOND INTERIOR METAL GAS PIPING TO THE ELECTRICAL SYSTEM GROUND. PIPING SHALL BE ELECTRICALLY CONTINUOUS.	2.03 A	ADHESIVES: MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS,	
	END O	F SECTION		INSTALL CONTINUOUS STRIP OF PLASTIC UTILITY MARKER TAPE OVER GAS PIPING. USE STRIP WITH TRACE WIRE FOR PLASTIC PIPE.	,	JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED, UNLESS OTHERWISE INDICATED.	
G OUTSIDE BUILDING TO WATER	NATUD	AL GAS PIPING SYSTEM		IDENTIFY AND LABEL MEDIUM PRESSURE GAS PIPING AT BOTH ENDS AND THE 6 FOOT INTERVALS IN BETWEEN.		1. CELLULAR–GLASS POLYSTYRENE. 2. FLEXIBLE ELASTOMERIC AND POLYOLEFIN.	
RAWINGS HARD COPPER TUBING D JOINTS MADE WITH 95–5	SECTIO	N 15413	N.	CONTRACTOR SHALL COORDINATE WITH LOCAL GAS COMPANY THE STANDARD GAS PRESSURE. SHOULD THE SYSTEM EXCEED THE STANDARD GAS PRESSURE AND USE MEDIUM OR HIGH PRESSURE GAS		 MINERAL—FIBER. POLYSTYRENE. ASJ, FSK, AND PVDC JACKET ADHESIVE. 	
), SEAL COATED, HUB AND NTS MADE WITH RUBBER	PART 1	1 GENERAL WORK INCLUDED:		CONTRACTOR SHALL PROVIDE A GAS REGULATOR AT EACH PIECE OF EQUIPMENT REQUIRING GAS SHOULD LOCATIONS NOT BE SHOWN ON DRAWINGS. PROVIDE VENTING ACCORDINGLY SHOULD THE REGULATOR	2.04	6. PVC JACKET. MASTICS:	
FOR THE PURPOSE. (OPTIONAL)		. UNDERGROUND NATURAL GAS SERVICE PIPING. . INTERIOR NATURAL GAS PIPING.	3.03	BE INSTALLED INSIDE THE BUILDING. TESTING:	A. B.	VAPOR-BARRIER MASTIC BREATHER MASTIC.	
BUILDING AND TO FIVE FEET		. EXTERIOR EXPOSED NATURAL GAS PIPING. . CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT.	A.	BEFORE CONCEALING, TEST NATURAL GAS PIPING SYSTEM AND PROVE LEAK FREE. SUBJECT SYSTEM TO AT LEAST 50 PSIG AIR PRESSURE	2.05 A.	SEALANTS: JOIN SEALANT.	
AS INDICATED ON DRAWINGS NGS OR JOINTS PERMITTED ABOVE SLAB USING WROUGHT		. COCKS.	В.	FOR 3 MINUTES. CHECK UNDERGROUND PIPING COATING WITH A "HOLIDAY" DETECTOR	В.	FSK AND METAL JACKET FLASHING SEALANT. ASJ FLASHING SEALANT AND VINYL, PVDC, AND PVC JACKET FLASHING SEALANT.	
YPE AS INDICATED ON DRAWINGS	1.02 A.	RELATED WORK: . SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.	END OF	AND PROVE FREE FROM LEAKAGE CURRENTS THROUGH COATING. SECTION	2.06	FACTORY-APPLIED JACKETS:	
T COPPER FITTINGS AND JOINTS ILVER CONTENT).	1.03	SUBMITTALS:	INSULAT	ION	B. C.	ASJ-SSL FSK PVDC JACKET FOR INDOOR APPLICATIONS	
AND OTHER FINISHED AREAS, THREADED FITTINGS.		SUBMIT MANUFACTURER'S DATA SHEETS ON GAS COCKS.		GENERAL	E. F.	PVDC JACKET FOR OUTDOOR APPLICATIONS PVDC—SSL JACKET	
RELIEF PIPING INSIDE BUILDING,		 SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND THERE APPLICABLE DATA. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND 	1.01	WORK INCLUDED:	2.07 A.	FIELD-APPLIED FABRIC-REINFORCING MESH: WOVEN POLYESTER FABRIC	[
RAWINGS HARD COPPER TUBING INTS MADE WITH 95–5 SOLDER.	C	ROUTING OF PIPING AS INSTALLED.	A. B.	INSULATION MATERIALS. INSULATING CEMENTS. ADHESIVES.	2.08	FIELD-APPLIED JACKETS: PVC JACKET	
USED ON POTABLE WATER	1.04 A.	QUALITY ASSURANCE: . CONFORM TO ASME CODE AND APPLICABLE STATE REGULATIONS WITH	D. E. F	ADRESIVES. MASTICS. SEALANTS. FACTORY—APPLIED JACKETS.	В.	ALUMINUM JACKET UNDERGROUND DIRECT-BURIED JACKET	
		ALL WELDING MATERIALS AND WELDING OPERATOR'S QUALIFICATIONS. USE ONLY OPERATORS FULLY QUALIFIED AND CERTIFIED UNDER THE REQUIREMENTS OF THE ARKANSAS GAS PIPELINE CODE (AFPC).		FIELD-APPLIED FABRIC-REINFORCING MESH. FIELD-APPLIED JACKETS. TAPES.	2.09 A.	TAPES: ASJ	
S INCLUDING DISC, PLUGS, IS FOR THE SERVICE,	PART 2	2 PRODUCTS	J. K.	SECUREMENTS. CORNER ANGLES.	C. D.	FSK PVC ALUMINUM-FOIL	
THEY WILL BE EXPOSED. NECTIONS. M, INSIDE CREW, DOUBLE	2.01	PIPING:	1.02	RELATED WORK: A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.	E. 2.10	PVC SECUREMENTS:	
NG STEM, INSIDE CREW,	А.	. UNDERGROUND PIPING: 1. PLASTIC PIPE OR TUBING AND FITTINGS CONFORMING WITH		B. SECTION 15005 MECHANICAL INSULATION.	A. B.	ALUMINUM BANDS INSULATION PINS AND HANGERS NONMETAL, ADHESIVELY ATTACHED, PERFORATED–BASE INSULATION	
5C.		ASTM D 2513. REINFORCED EPOXY RESIN GAS PIPE AND FITTINGS CONFORMING TO ASTM D 2517 FOR OUTSIDE UNDERGROUND USE ONLY. PLASTIC SHALL BE USED ONLY	1.03	SUBMITTALS: A. PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED.	D.	HANGERS SELF-STICKING BASE INSULATION HANGERS INSULATION-RETAINING WASHERS	
4" ANTI-SIPHON		BELOW GRADE. PLASTIC PIPE AND FITTINGS SHALL BE JOINED BY APPROVED METHODS AND MANUFACTURING INSTRUCTIONS.		 A. PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED. B. SHOP DRAWINGS DETAILING APPLICATION OF PROTECTIVE SHIELDS, SADDLES, AND INSERTS AT HANGERS FOR EACH TYPE 		NONMETAL INSULATION-RETAINING WASHERS STAPLES WIRE	
AND BOX WITH LOOSE KEY IICKNESS.		 MILL COAT PIPE WITH HIGH DENSITY POLYETHYLENE OVER ADHESIVE UNDERCOATING. WRAP FIELD JOINTS AND FITTINGS WITH REPUBLIC 		C. DETAIL ATTACHMENT AND COVERING OF HEAT TRACING INSIDE	2.11	CORNER ANGLES:	
		"X-TRU-TAPE" OR EQUAL PER MANUFACTURER'S RECOMMENDATIONS.		D. DETAIL INSULATION APPLICATION AT PIPE EXPANSION JOINTS FOR		PVC CORNER ANGLES ALUMINUM CORNER ANGLES	
	В	ABOVE GROUND PIPING: 1. SCHEDULE 40 BLACK STEEL OR GALVANIZED STEEL WITH		EACH TYPE OF INSULATION. E. DETAIL INSULATION APPLICATION AT ELBOWS, FITTINGS, FLANGES,		EXECUTION	
LY CLEAN INSIDE AND		MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTTWELD FITTINGS. 2. STAINLESS STEEL TUBING, FITTINGS, AND ACCESSORIES SHALL		VALVES, AND SPECIALTIES FOR EACH TYPE OF INSULATION. F. DETAIL REMOVABLE INSULATION AT PIPING SPECIALTIES,	A.	SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION. REMOVE MATERIALS THAT WILL	THE OF AUTHORIZE
		BE TESTED, LISTED, AND INSTALLED PER ANSI/AGA LC-1, MFPA AND FACTORY MUTUAL. SHALL HAVE POLYETHYLENE JACKET. SHALL MEET STATE AND LOCAL APPROVALS. SHALL		EQUIPMENT CONNECTIONS, AND ACCESS PANELS. G. DETAIL APPLICATION OF FIELD-APPLIED JACKETS.	В.	ADVERSELY AFFECT INSULATION APPLICATION. COORDINATE INSULATION INSTALLATION WITH THE TRADE	ADVANCED CONSULTING ENGINEERS, INC.
I IN 40 FEET AND ARRANGE		BE EQUAL TO TRACE PIPE BY OMEGA FLEX.		H. DETAIL APPLICATION AT LINKAGES OF CONTROL DEVICES.	^	INSTALLING HEAT TRACING. COMPLY WITH REQUIREMENTS FOR HEAT TRACING THAT APPLY TO INSULATION.	No. 27
A MINIMUM OF 3 FEET	С	 CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT: PVC COOLED SPIRAL FLEXIBLE BRASS CONNECTOR WITH 		 DETAIL FIELD APPLICATION FOR EACH EQUIPMENT TYPE. J. FIELD QUALITY-CONTROL REPORTS. 	C.	MIX INSULATING CEMENTS WITH CLEAN POTABLE WATER; IF INSULATING CEMENTS ARE TO BE IN CONTACT WITH STAINLESS-STEEL SURFACES, USE DEMINERALIZED WATER.	ARKANSAS MININ
NECTIONS FOR JOINING ES OR ADAPTERS OR		BRASS FLARED GAS TUBING FITTINGS.	PART 1	GENERAL	3.02	GENERAL INSTALLATION REQUIREMENTS:	PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN
ALVES TO COPPER PIPING.		. WELDING ROD – SAME MATERIAL AS PIPE.	2.01	PRODUCTS:	А.	INSTALL INSULATION MATERIALS, ACCESSORIES AND FINISHES WITH SMOOTH, STRAIGHT, AND EVEN SURFACES; FREE OF VOIDS THROUGHOUT THE LENGTH OF EQUIPMENT AND PIPING	SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR
JOINTS COMPOUND TO	2.02	GAS COCKS:	Α.	INSULATION MATERIALS. 1. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.		INCLUDING FITTINGS, VALVES, AND SPECIALTIES. INSTALL INSULATION MATERIALS, FORMS, VAPOR BARRIERS OR RETARDERS JACKETS AND THICKNESS' REQUIRED FOR EACH	SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH
XTEND FULL SIZE TO	А.	. IRON BODY WITH BRASS PLUG AND WASHER WITH SCREWED OR FLANGED ENDS RATED FOR 125 LB. WOG.		2. PRODUCTS THAT COME IN CONTACT WITH STAINLESS STEEL SHALL HAVE A LEACHABLE CHLORIDE CONTENT OF LESS THAN		RETARDERS, JACKETS, AND THICKNESS' REQUIRED FOR EACH ITEM OF EQUIPMENT AND PIPE SYSTEM. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION	THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
WALL, CEILING, OR FLOOR, LATE SECURELY ANCHORED READS SHOW.	PART 3	EXECUTION:		50 PPM WHEN TESTED ACCORDING TO ASTM C 871. 3. INSULATION MATERIALS FOR USE ON AUSTENITIC STAINLESS		MATERIALS AND SUITABLE FOR THE SERVICE.	ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER
TAP AND METER LISH WATER SERVICES.		PREPARATION: REAM PIPES AND TUBING PRIOR TO CONNECTION.		STEEL SHALL BE QUALIFIED AS ACCEPTABLE ACCORDING TO ASTM C 795.	END OF	SECTION	AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR
		REAM PIPES AND TUBING PRIOR TO CONNECTION. REMOVE WELDING SLAG FROM WELDED CONNECTIONS.		4. FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS.		Φη κην μοτ	FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOUVER SIZES AND LOCATIONS
						ROGERS, AR 72756	CONSTRUCTION. LAYOUT ALL
						DVANCED CONSULTING ENGINEERS FX 479.631.1854 MECHANICAL ELECTRICAL INDUSTRIAL ACEI@ADVENGINEERS.COM	CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.







LEGEND

	CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND
	LUMINAIRE SYMBOLS. SEE LUMINAIRE SCHEDULE FOR
ою б	SPECIFIC FIXTURES.
\$	SINGLE POLE, SINGLE THROW LIGHT SWITCH, 20A
\$ ₃	(WP = WEATHERPROOF COVER) THREE-WAY LIGHT SWITCH, 20A
\$ _{AS}	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH AUTO SENSOR
\$ _{PL}	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH PILOT LIGHT
\$ _{PB}	PUSHBUTTON DOOR BELL ACTIVATOR
5 \$ _τ	TIMER SWITCH
\$ _D	DIMMER SWITCH
\$ _V	VARIABLE SPEED FAN CONTROL SWITCH
Θ	SINGLE RECEPTACLE, GROUNDED
\$	DUPLEX RECEPTACLE, GROUNDED
⊕ _{IG}	DUPLEX RECEPTACLE, ISOLATED GROUND
	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFCI)
	DUPLEX RECEPTACLE, GFCI WITH WEATHERPROOF COVER
ি দৈব	DUPLEX RECEPTACLE, WITH (2) USB PORTS
Ø	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE SPECIAL PURPOSE RECEPTACLE AS NOTED
C	TELEVISION CABLE OUTLET
$\breve{\mathbf{V}}$	WITH 3/4" C.O. TO MATV
	J-BOX
\mathbf{V}^{H}	HIGH DEFINITION TV
V	OUTLET WITH (3) CAT6 CABLES
	FIRE ALARM SYSTEM CONTROL PANEL
FACP F	FIRE ALARM SYSTEM CONTROL FANEL
	FIRE ALARM SYSTEM MINI-HORN/STROBE COMBINATION, GUESTROOM
X	FIRE ALARM SYSTEM STROBE
- N	FIRE ALARM SYSTEM HORN/STROBE
SD	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR, GUESTROOM
SD	FIRE ALARM SYSTEM SMOKE DETECTOR
DSD	FIRE ALARM SYSTEM DUCT MOUNT SMOKE DETECTOR
FSD Ø	FIRE ALARM SYSTEM THERMAL DETECTOR 120V CONNECTION TO FIRE/SMOKE DAMPER
(FSD) O _{FSD} X	DOORBELL CHIME WITH ALERT LIGHT
0	JUNCTION BOX
Ū	THERMOSTAT
	TELEPHONE TERMINAL BOARD (TTB)
•	TELEPHONE OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
◀48" HP	HOUSE TELEPHONE OUTLET MOUNTED AT 48" AFF WITH MINIMUM $1/2$ " C.O. TO TTB
Т	TELEPHONE ALERT LIGHT, SIMILAR TO FIRE ALARM STROBE, WHITE COVERPLATE, WHITE STROBE LENS, WITH "PHONE" ON BOTH SIDES OF LENS IN BLACK LETTERS
4	COMPUTER OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
⊲ (#)	COMPUTER OUTLET, # INDICATES NUMBER OF CAT6 JACKS, NO NUMBER INDICATES ONE CABLE
	DUPLEX TELEPHONE/DATA OUTLETS
●	PUSHBUTTON
	PANELBOARD
	ELECTRICAL DISTRIBUTION EQUIPMENT
	DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH
<u>ک</u> اکتا	
TS Ø	TIME SWITCH MOTOR CONNECTION
У \$ _М	MOTOR RATED SWITCH
	CONNECTION TO ELECTRONIC CARD READER/DOOR RELEASE
	CLOSED CIRCUIT SECURITY CAMERA
$ \bigcirc $	ELECTRO-MAGNETIC DOOR HOLDER
XX	SPEAKER – CEILING

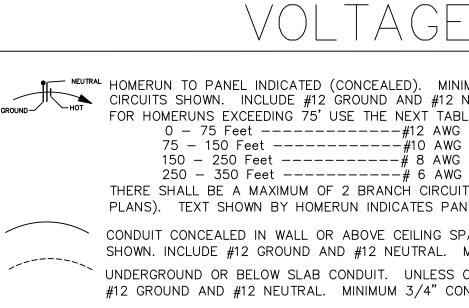
NEC GENER/

- . WHERE THE CONDUCTORS IN A RACEWAY OR CAB AMPACITY OF EACH CONDUCTOR SHALL BE REDUC (310.15(B)(2))
- 2. WHERE THE CONDUCTORS OR CABLES ARE INSTAL SUNLIGHT ON OR ABOVE ROOFTOPS SHALL BE REDUCED PER
- 3. WHERE TWO DIFFERENT AMPACITIES APPLY TO AD AMPACITY SHALL BE PER THE 310.15(2) EXCEPTION.
- 4. WHERE THE MAXIMUM AMBIENT TEMPERATURE IS CORRECTION FACTORS SHALL APPLY TO CONDUCTORS. (TABL
- 5. INDICATE WHICH WIRING METHODS (E.G., FMC, EMT INSTALLED AT ANY/ALL LOCATIONS ON THE PLANS. (CHAP
- 6. NOT USED
- 7. NOT USED
- 8. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PR SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT ORIGINATES. (210.4(B)).
- 9. ALL WORK TO COMPLY WITH NATIONAL ELECTRIC
- 10. THE UNGROUNDED AND GROUNDED CONDUCTORS SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT PANELBOARD OR OTHER POINT OF ORIGINATION. (210.4(D))
- 11. PROVIDE SEPARATE SUBMITTAL, OBTAIN ALL REQU APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND / ALL INSTALLED EQUIPMENT SHALL BE LISTED AN TESTING LABORATORY.
- 12. ALL INSTALLED EQUIPMENT AND MATERIAL SHALL THE INTENDED PURPOSE.
- 13. ALL EQUIPMENT TO BE U.L. LISTED OR EQUIVALEN
- 14. FIELD VERIFY SERVICE RECEPTACLE IS PROVIDED EQUIPMENT. (210.63)
- 15. MULTIPLE RACEWAYS CONTAINING MORE THAN 2 COMPLY WITH [2017, NEC, 310.15(B)(2)(A)].
- 16. WHERE THE DISCONNECTS ARE NOT PROVIDED WIT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER MUS LOCK, AND THESE PROVISIONS MUST REMAIN WIT
- PROVISIONS HAVE TO BE PART OF THE EQUIPME 17. DESIGN OR AS AN ACCESSORY FEATURE THAT C [410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION 600.6(A)(2)(3), 620.51(A) EXCEPTION NO. 1, 620.
- 18. LIGHT FIXTURE IN CONTACT WITH INSULATION TO PROVIDE 3" MINIMUM CLEARANCE.
- 19. LIGHTS AND PANELS SHALL NOT BE RECESSED IN WITH EQUIVALENT CONSTRUCTION.
- 20. MOUNT THE FOLLOWING ABOVE FINISHED FLOOR: OUTLETS- 18" TO 48" SWITCHES- 36" TO 48"
- THERMOSTATS- 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOXES RESP
- 21. PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECT
- 22. W.P. COVER OF OUTLETS TO COMPLY WITH SECT.

APPLICABLE CO

CODES:

 NATIONAL ELECTRICAL CODE 2017 COMPLY WITH LOCAL JURISDICTION REQUIREM



AL NOTES:	ABBREVIATION	S
BLE EXCEEDS THREE, THE ALLOWABLE JCED PER TABLE 310.15(B)(2). ALLED IN CONDUITS EXPOSED TO DIRECT TABLE 310.15(B)(2)(C). DJACENT PORTIONS OF A CIRCUIT, THE OVER 30°C, (86°F), THE REFERENCED LE 310.16 TO 19) AT, AC, IMC, RMC, ETC.) ARE TO BE PTER 9, TABLES 4, 5 &5A, APPENDIX C) ROVIDED WITH A MEANS THAT WILL THE POINT WHERE THE BRANCH CIRCUIT	A AMPERE GND AC ALTERNATING CURRENT, ABOVE COUNTER GRS AFF ABOVE FINISHED FLOOR HID AIC AMPS INTERRUPTING CAPACITY HP AL ALUMINUM HT AMP AMPERE KCMIL AWG AMERICAN WIRE GAUGE KEC BKR BREAKER KVA BLDG BUILDING KW BOH BACK OF HOUSE LTG C COIL or CONDUIT MFR CKT CIRCUIT MIN CO CONDUIT/RACEWAY ONLY MLO CT CURRENT TRANSFORMER N CU COPPER NECC CW COOL WHITE NEMA DCO DUPLEX CONVENIENCE OUTLET NT DN DOWN NTS EXIST EXISTING PNL EF EXHAUST FAN POC ELECT ELECTRICAL PT EMT EMT ELECTRICAL METALLIC TUBING PVC EQUIP EQUIPMENT PWR FLR FLOO	GROUND GALVANIZED RIGID STEE HIGH INTENSITY DISCHAR HORSEPOWER HEAT TRACE THOUSAND CIRCULAR MI KITCHEN EQUIPMENT CO KILOVOLT AMPERES KILOWATT LIGHTING MANUFACTURER MINIMUM MAIN LUGS ONLY NEUTRAL NATIONAL ELECTRICAL ON NATIONAL ELECTRICAL ON NATIONAL ELECTRICAL ON NATIONAL ELECTRICAL ON NEON TRANSFORMER NOT TO SCALE PANEL POINT OF CONNECTION POTENTIAL TRANSFORME POLYVINYL CHLORIDE POWER QUANTITY RECEPTACLE ROUGH-IN ROOM
	GENERAL NOTES	
CODE 2020. OF EACH MULTI-WIRE BRANCH CIRCUIT	1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, ORDINANCES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES TO INSTALLATION.	
UIRED PERMITS, INSPECTIONS AND	2, PROVIDE ITEMS NECESSARY TO COMPLETE ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.	
OR MODIFICATIONS APPROVED BY A CITY APPROVED BE NRTL LISTED AND APPROVED FOR	3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE CONDITIONS WHICH MAY AFFECT BID. ANY ITEMS NOT FULLY UNDERSTOOD SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING. PLANS ARE BASED ON OUR BEST UNDERSTANDING OF EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL RELEVANT EXISTING CONDITIONS.	
NT.	4. "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, OR MECHANICAL).	
WITHIN 25' OF MECHANICAL CURRENT CARRYING CONDUCTORS SHALL	5. WHEREVER THE WORD "PROVIDE" IS USED, IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."	
ITHIN SIGHT FROM THE EQUIPMENT IT ST INCLUDE PROVISIONS FOR ADDING A	 COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES. REFER TO EQUIPMENT DRAWINGS FOR MECHANICAL CHARACTERISTICS (SIZE, LOCATION, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED. 	S
TH THE EQUIPMENT. THESE LOCKING NT, EITHER INHERENT TO THE EQUIPMENT ON BE INSTALLED ON THE EQUIPMENT.	8. PROVIDE CONDUCTORS AND RACEWAYS PER NATIONAL ELECTRICAL CODE.	SHEET NUMBE
DN NO. 1, D.53, 620.55]	 9. REFER TO ARCHITECTURAL DRAWINGS FOR KEY PLANS. 10. ALL DIMENSIONS SHALL BE PER THE ARCHITECTURAL DRAWINGS. 	E-100 E-101 E-400
BE U.L. LISTED FOR THERMAL BARRIER OR	 PRIOR TO PROVIDING CABLES FOR TV, CONFIRM REQUIREMENTS WITH ARCHITECT. NEW ELECTRICAL BOXES LOCATED IN WALLS SEPARATING TWO ROOMS SHALL NOT BE LOCATED "BACK TO BACK". INSTALL PUTTY PACKS BEHIND NEW BOXES FOR 	E-400 E-600 E-700
N FIRE RATED ASSEMBLIES UNLESS BOXED,	SOUND ATTENUATION. 13. ALL RECEPTACLES AND SWITCHES SHALL BE BETWEEN 18" AND 48" AFF. ADJUST HEIGHT AS REQUIRED TO MEET ADA.	
	14. NOT USED	
PECTIVELY.	15. CONTRACTOR TO INSTALL FLUSH MOUNT ALL RECEPTACLES BOXES IN FINISHED WALLS THROUGHOUT.	
TION 408.4, NEC.	16. CONTRACTOR TO LABEL PROPERLY ALL SERVICES AND UNIT PANELS.	
406.8 (B) (I), NEC.	17. CONTRACTOR TO INSTALL WET RATED ALARM WIRE IN UNDER GROUND INSTALLATIONS .	
ODES	18. NOT USED	
	19. NOT USED	
EMENTS		

VOLIAGE DROP NOIES:

TE NEUTRAL HOMERUN TO PANEL INDICATED (CONCEALED). MINIMUM 3/4" CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL CONDUCTORS. FOR HOMERUNS EXCEEDING 75' USE THE NEXT TABLE TO SIZE THE CONDUCTORS:

THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE AND 3 BRANCH CIRCUITS FOR THREE PHASE PER HOMERUN (AS INDICATED ON THE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION AND CIRCUIT NUMBER(S). CONDUIT CONCEALED IN WALL OR ABOVE CEILING SPACE. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS

SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT. UNDERGROUND OR BELOW SLAB CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.

STEEL CHARGE R MILLS CONTRACTOR CAL CODE (NFPA-70) CAL MANUFACTURERS ASSOCIATION RO

SHT

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SWBD

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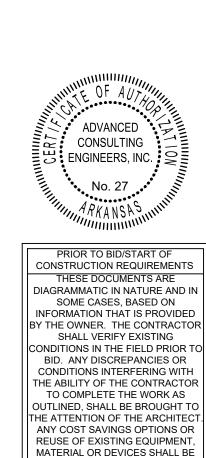
RACEWAY ONLY SHEET SPECIFICATIONS SWITCH SWITCHBOARD SWITCHGEAR TYPICAL UNDERGROUND UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED VOLTS WATTS WARM WHITE WEATHERPROOF WITH WITHOUT TRANSFORMER TRANSFER IMPEDANCE OR ZONE



R		

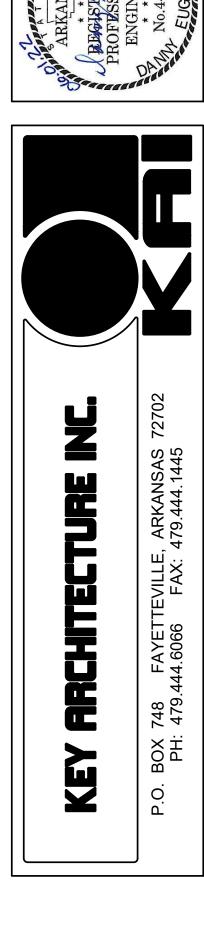
SHEET NAME

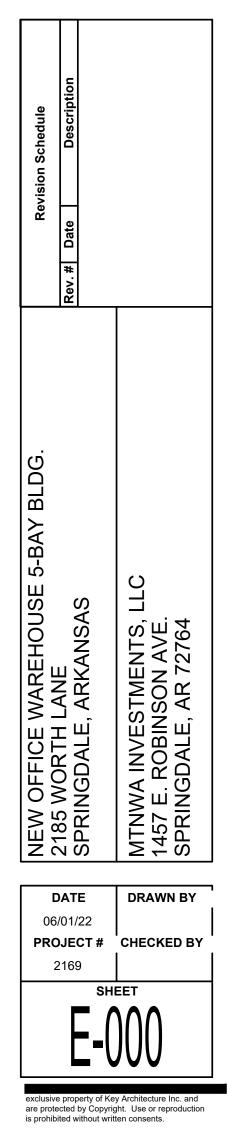
:R	SHEET NAME
	ELECTRICAL LEGEND & ABBREVIATIONS
	LIGHTING PLAN
	POWER PLAN
	UNDERGROUND ELECTRICAL PLAN
	ELECTRICAL SCHEDULES & ONE-LINE
	SPECIFICATIONS

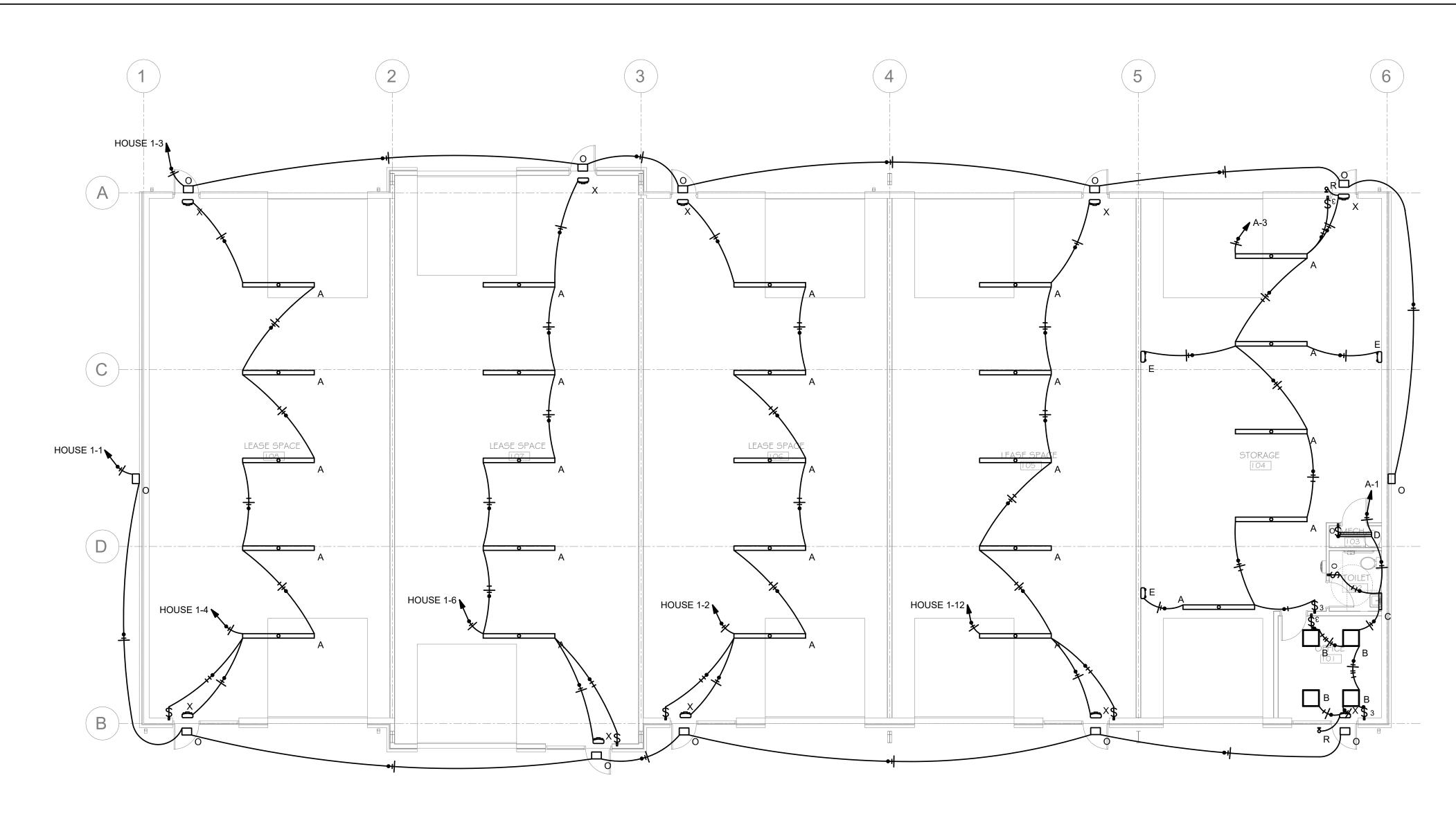




MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OF FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE PO BOX 427 ALL LOUVER SIZES AND LOCATIONS ROGERS, AR 72756 PRIOR TO START OF CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM PH 479.631.1712 || EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND FX 479.631.1854 CLEARANCES ARE AVAILABLE WITH ANY ISSUES.







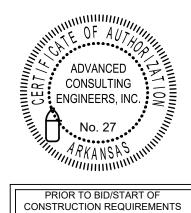
1 LIGHTING PLAN SCALE: 1/8" = 1'-0" Cz

SWITC SCHE	FCH EDULE						
CALLOUT	SYMBOL						
Generic Switch	\$						
Occupancy Switch	\$						
Threeway Switch	\$ ₃						

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 2
A		(1)	SURFACE	Lithonia Lighting, CSS L96 ALO4 MVOLT SWW3 80CRI (8000LM 3500K)	68.4	120V 1P 2W	
В		(1)	CEILING	Lithonia Lighting, 2GTL2 40L A12125 LP840	33.61	120V 1P 2W	
С	_	(1) LED	WALL	Lithonia Lighting, BLWP2 40L ADSM LP840	37.34	120V 1P 2W	
D		(1)	SURFACE	Lithonia Lighting, CLX L48 4000LM SEF FDL MVOLT GZ10 35K 80CRI WH	27.58	120V 1P 2W	
E	C	(2) TWO 3.3-WATT LED, ELP L372	WALL	Lithonia Lighting, ELM4L	5	120V 1P 2W	
0		(1) LED, NICHIA 219B 4000K	WALL	Lithonia Lighting, DSXW2 LED 20C 700 40K T2M 120 PE DBLXD	47	120V 1P 2W	
R	ю	(1)	WALL	Lithonia Lighting, ERE B T RD WP	1.6	MULTIPLE	
SL	\Box	(1),	POLE	Lithonia Lighting, RSX3 LED P4 40K R4 120 AASP PE CE34 DBLXD	311.92	120V 1P 2W	SEE CIVIL FOR LOCATION
Х	0	(2) TWO 1.5-WATT LED ASSEMBLY, ELP L275	WALL	Lithonia Lighting, LHQM LED	3	120V 1P 2W	

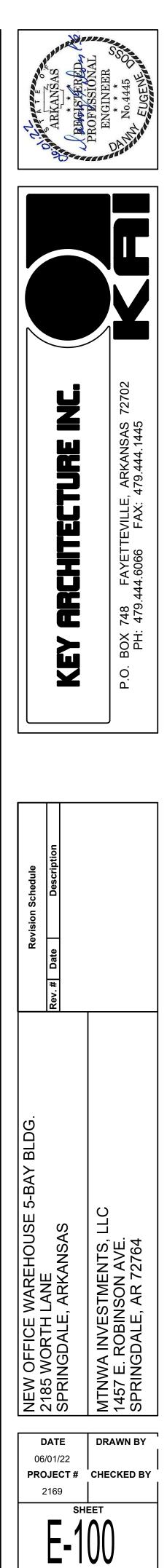




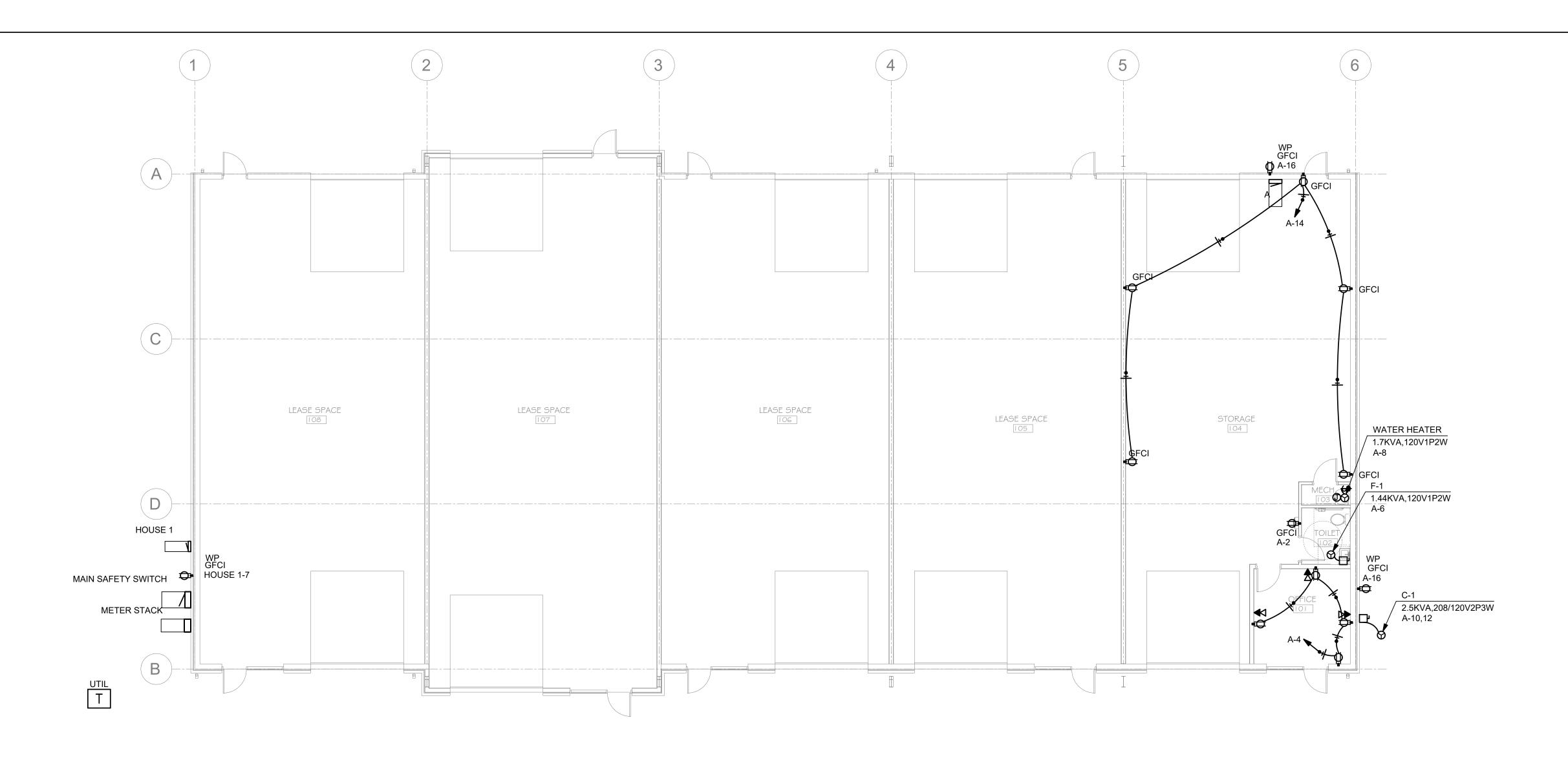
THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR

OR COMPENSATED. COORDINATE

TO BID, SHALL NOT BE AUTHORIZED

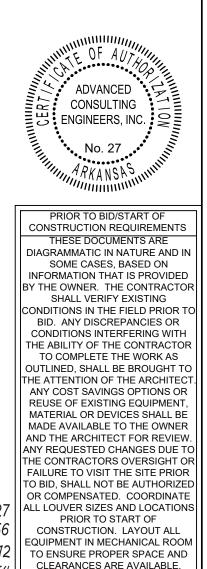


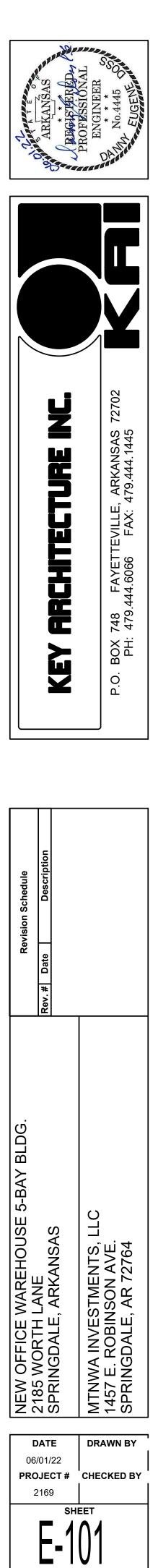
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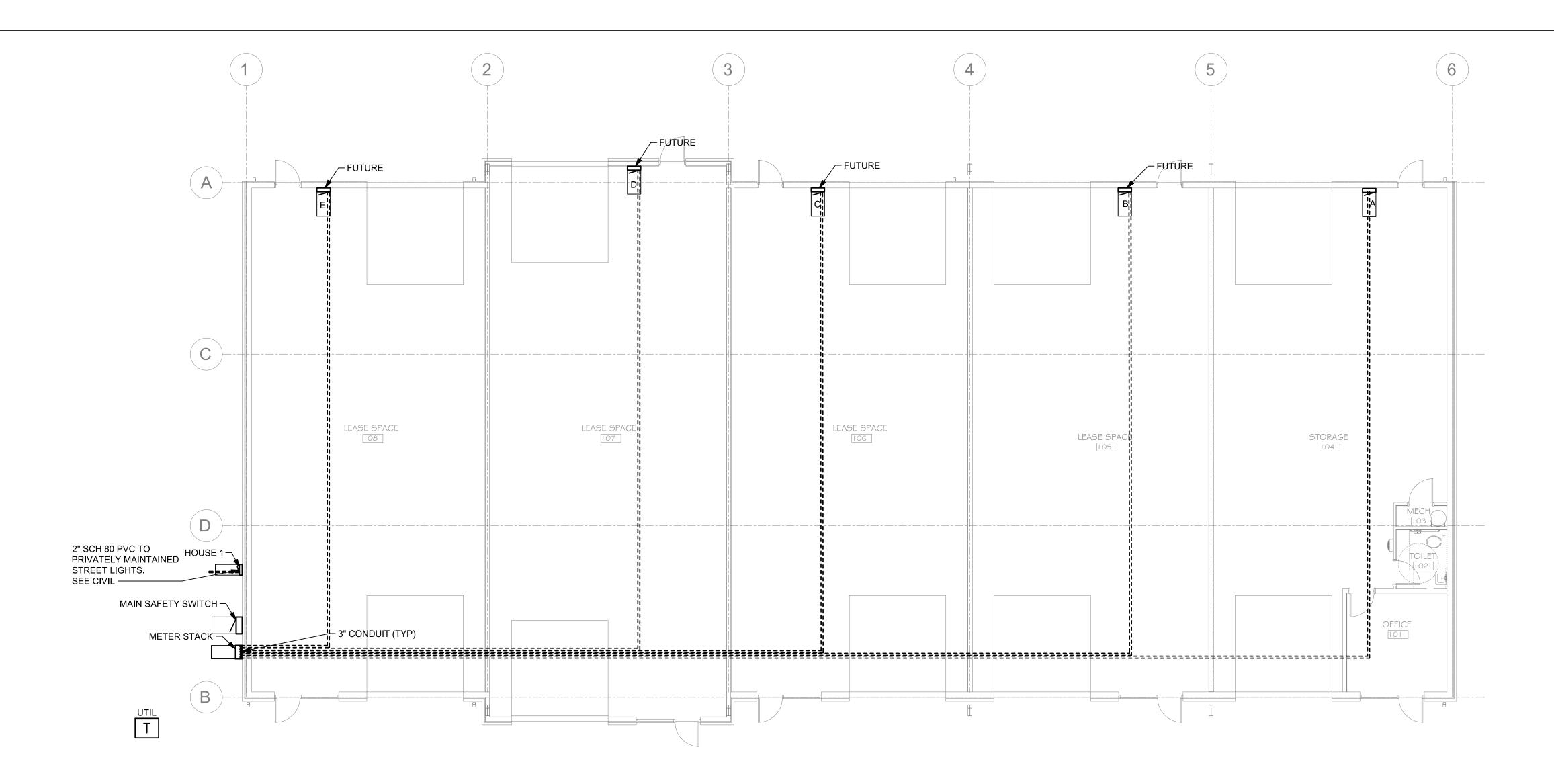
	OWER PLAN	A
SC	ALE: 1/8" = 1'-0"	



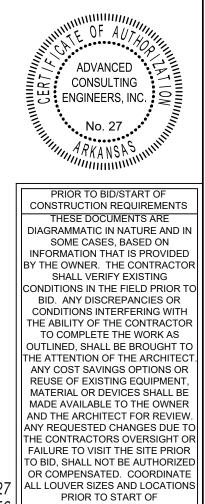


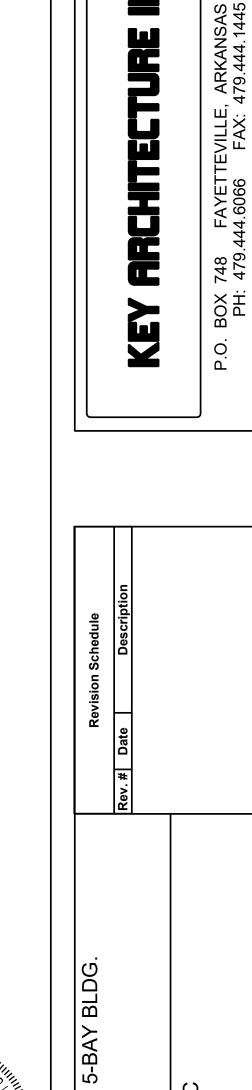


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1 UNDERGROUND POWER PLAN SCALE: 1/8" = 1'-0"





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AREHOUSE (

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ANSAS



PO BOX 427OR COMPENSATED. COORDINATEPO BOX 427ALL LOUVER SIZES AND LOCATIONS
PRIOR TO START OF
CONSTRUCTION. LAYOUT ALL
EQUIPMENT IN MECHANICAL ROOM
TO ENSURE PROPER SPACE AND
CLEARANCES ARE AVAILABLE.
CONTACT ARCHITECT IMMEDIATELY
WITH ANY ISSUES.PO BOX 427OR COMPENSATED. COORDINATE
ALL LOUVER SIZES AND LOCATIONS
PRIOR TO START OF
CONSTRUCTION. LAYOUT ALL
EQUIPMENT IN MECHANICAL ROOM
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CLEARANCES ARE AVAILABLE.
CONTACT ARCHITECT IMMEDIATELY
WITH ANY ISSUES.

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PROJECT # CHECKED BY

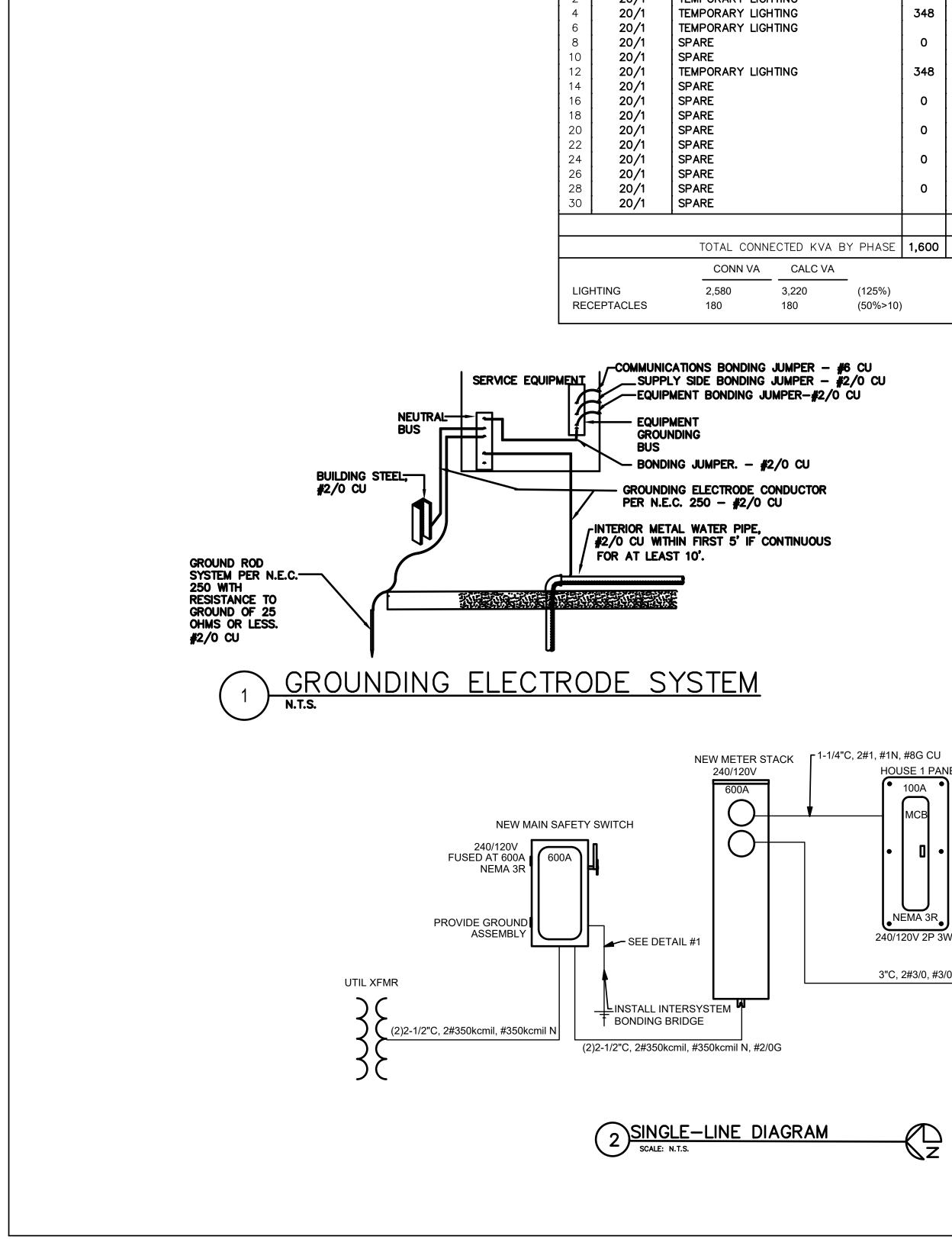
SHEET

C-400

C

MTNWA INVESTMENTS, L 1457 E. ROBINSON AVE. SPRINGDALE, AR 72764

DRAWN BY



SECTION 408.4 (A) & (B) PANELS TO BE IDENTIFIED FOR ARC FLASH HAZARD PER NEC SECTION 110.16.

PANELS AND THEIR CIRCUITS TO BE IDENTIFIED PER NEC

BRANCH CIRCUITS TO BE IDENTIFIED PER NEC 210.5. FMC TO BE PER NEC 348. RECEPTACLES, CORD CONNECTORS & ATTACHMENT PLUGS TO BE PER NEC 406. SWITCHBOARDS, SWITCH GEAR & PANEL BOARDS TO BE PER NEC 408. LIGHTING TO BE PER NEC 410.

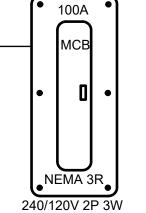
ED	NTING SURFAC FROM METER NEMA 3R			US AMPS 1 Eutral 10(MAIN BKR 100 LUGS STANDARD
KT #	BREAKER TRIP/POLES	CIRCUIT DESCR				OAD KV		FEEDER RACEWAY AND CONDUCTORS
#					A	В	С	
1	20/1	FRONT EXTERIO			282	000		1/2"C,1#10,#10N,#10G
3	20/1	REAR EXTERIOR			604	282		1/2"C,1#10,#10N,#10G
5	20/1	STREET LIGHT			624	100		1/2"C,1#8,#8N,#8G
<u></u>	20/1	MAINT. RECEPT	ACLE			180		1/2"C,1#12,#12N,#12G
) 1	20/1	SPARE SPARE			0	0		
י 3	20/1 20/1	SPARE			0			
5 5	20/1	SPARE				o		
5 7	20/1	SPARE			o			
9	20/1	SPARE				o		
9 21	20/1	SPARE			o	Ŭ		
3	20/1	SPARE				0		
5	20/1	SPARE			0			
7	20/1	SPARE				0		
9	20/1	SPARE			0			
2	20/1	TEMPORARY LI	GHTING	+ +	<u> </u>	348		1/2"C,1#10,#10N,#10G
-	20/1	TEMPORARY LI			348			1/2"C,1#10,#10N,#10G
5	20/1	TEMPORARY LI				348		1/2"C,1#10,#10N,#10G
3	20/1	SPARE			0			
0	20/1	SPARE				0		
2	20/1	TEMPORARY LIC	GHTING		348			1/2"C,1#10,#10N,#10G
4	20/1	SPARE				0		
6	20/1	SPARE			0			
8	20/1	SPARE				0		
0	20/1	SPARE			0			
2	20/1	SPARE				0		
4	20/1	SPARE			0			
6	20/1	SPARE				0		
8	20/1	SPARE			0			
0	20/1	SPARE				0		
			NECTED KVA		1,600	1,160	0	
CONN VA CALC VA							CALC VA	
LIGHTING 2,580 3,220 (125%)								
REC	EPTACLES	180	180	(50%>10)	1	BALA	NCED I	LOAD 14.2 A

	NTING SURFAC FROM METER		BUS /	S 240/1 Amps 2 Ral 100	00	9 3W		-	AIC 10,000 Main BKR 2 Lugs stane		
KT #	BREAKER TRIP/POLES	CIRCUIT DESCRIP	TION		L	OAD KV B	A C	FEEDER	RACEWAY AND	CONDUCTOR	S
1 5 7 9 11 13 15 17 19 21	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	OFFICE LIGHTING OPEN AREA LIGH SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	ITING		202 0 0 0 0	360 0 0 0 0			#10,#10N,#10G #10,#10N,#10G		
23 25 27 29 31 33 35 37 39 41	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE			0 0 0 0	0 0 0 0					
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 34 36 38 40 42	20/1 20/1 15/1 20/2 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	WATER BOTTLE F OFFICE RECEPTA F-1 WATER HEATER C-1 STORAGE RECEPT EXTERIOR RECEPT SPARE	CLE TACLE	E	720 1,700 1,250 360 0 0 0 0 0 0	180 1,440 1,250 900 0 0 0 0 0 0 0 0 0 0		1/2"C,1 1/2"C,1 1/2"C,1 1/2"C,2 1/2"C,1	#12,#12N,#12G #10,#10N,#10G #12,#12N,#12G #12,#12N,#12G 2#10,#10N,#10G #10,#10N,#10G #12,#12N,#12G		
С	IERAL LIGHTING OFFICE HTING	CONN VA	900 SF	PHASE (125%) (3.5 VA/SF) (125%)	3,970	LAR REC NON COC TOT	0 GEST MC EPTACLI CONTINI CONTINI CONTINI AL LOAD	es Jous	CONN VA 2,500 2,160 1,700 3,940	CALC VA 624 2,160 1,700 3,940 13,100 54.4 A	(25%) (50%>10) (100%) (100%)

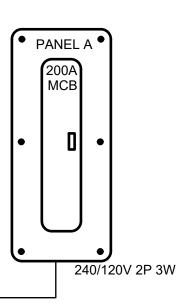
A									
ROOM MOUN FED NOTE	NTING SURFAC FROM METER		00 MAIN BKR 200						
CKT	BREAKER			OAD KV	i				6
#	TRIP/POLES	CIRCUIT DESCRIPTION	A	В	С		RACEWAY AND	CUNDUCTOR	5
1	20/1	OFFICE LIGHTING	202	360	•		10,#10N,#10G		
3 5	20/1 20/1	OPEN AREA LIGHTING SPARE	o	360		1/2 0,1# 	10,#10N,#10G		
7	20/1	SPARE		0					
9	20/1	SPARE	0	Ì	Ì				
11	20/1	SPARE	Į –	0	[
13	20/1	SPARE	0		-				
15 17	20/1	SPARE SPARE	0	0		ł			
19	20/1 20/1	SPARE		0					
21	20/1	SPARE	0	Ŭ	1				
23	20/1	SPARE	Ī	0	Ì	t			
25	20/1	SPARE	0	l	I	ļ			
27	20/1	SPARE		0	•	ļ			
29	20/1	SPARE	0						
31 33	20/1 20/1	SPARE SPARE	0	0					
35	20/1	SPARE		o					
37	20/1	SPARE	0						
39	20/1	SPARE	I	0	I				
41	20/1	SPARE	0	l ,					
2	20/1	WATER BOTTLE FILL RECEPTACLE		180		1/2"C,1#	12,#12N,#12G		1
4	20/1	OFFICE RECEPTACLE	720	l	Į	1/2"C,1#	10,#10N,#10G		
6	15/1	F-1		1,440			12,#12N,#12G		
8	20/1	WATER HEATER	1,700	1 250			12,#12N,#12G		
10 12	20/2 I	C-1	1,250	1,250		1/2 0,2# 	10,#10N,#10G		
14	20/1	STORAGE RECEPTACLE	1,200	900		 1/2"C.1#	10,#10N,#10G		
16	20/1	EXTERIOR RECEPTACLE	360				12,#12N,#12G		
18	20/1	SPARE	I	0	I				
20	20/1	SPARE	0						
22	20/1	SPARE		0					
24 26	20/1 20/1	SPARE SPARE	0	0	-				
20 28	20/1	SPARE	0						
30	20/1	SPARE		0					
32	20/1	SPARE	0	I	İ				
34	20/1	SPARE	ļ	0		ļ			
36	20/1	SPARE	0			ļ			
38 40	20/1 20/1	SPARE SPARE	0	0		ļ			
40 42	20/1 20/1	SPARE		0	•				
	/ '				-				
			.		_	 			
		TOTAL CONNECTED KVA BY PHASE	3,970	4,390	0				
		CONN VA CALC VA					CONN VA	CALC VA	
GEN	IERAL LIGHTING	3,150 3,940 (125%)		LAR	GEST MO	DTOR	2,500	624	(25%)
C	FFICE	3,150 900 SF (3.5 VA/SF))	REC	EPTACLI	ES	2,160	2,160	(50%>10)
LIGH	ITING	562 703 (125%)				JOUS	1,700	1,700	(100%)
				COC	ling		3,940	3,940	(100%)
					AL LOAD			13,100	
				BAL	ANCED L	OAD		54.4 A	

ROOMVOLTS240/120V21MOUNTINGSURFACEBUSAMPS600FEDFROMMAINSAFETYSWITCHNEUTRAL100%NOTENOTENOTENOTENOTENOTENOTE			P 3W AIC 42,000 Main BKR MLO Lugs Standard							
KT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION			LOAD KVA A B FEEDER RACEWAY AND C			ONDUCTORS		
1 2 3 4	100/2 200/2 20/1 20/1	PANEL HOUSE ⁻ PANEL A *SPARE *SPARE			1,600 4,390 0	1,160 3,970 0	1-1/4"C,2#1,#1N,#8G			
5 6	20/1 20/1	*SPARE *SPARE			0	0				
		тот,	AL CONNECTE	D KVA BY PHASE	5,990	5,130				
GENERAL LIGHTING OFFICE LIGHTING		CONN VA 3,150 3,150 3,140	CALC VA 3,940 900 SF 3,930	(125%) (3.5 VA/SF) (125%)	LARGEST MOTOR RECEPTACLES NONCONTINUOUS COOLING		CONN VA 2,500 2,340 1,700 3,940	CALC VA 624 2,340 1,700 3,940	(25%) (50%>10) (100%) (100%)	
						AL LOAD			16,500 68.6 A	-

HOUSE 1 PANEL



3"C, 2#3/0, #3/0N, #6G



COORDINATE ALL WORK WITH SERVING UTILITY COMPANY

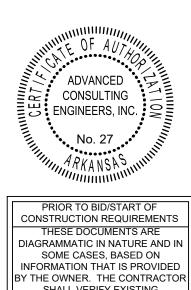
PRIOR TO BID, NOTIFY THIS ENGINEER, IN WRITING, OF ANY CHANGES REQUIRED.

REPRESENTATIVE PRIOR TO BID AND/OR CONSTRUCTION.

REQUIREMENTS AND MAKE CONTACT WITH LOCAL

Þ





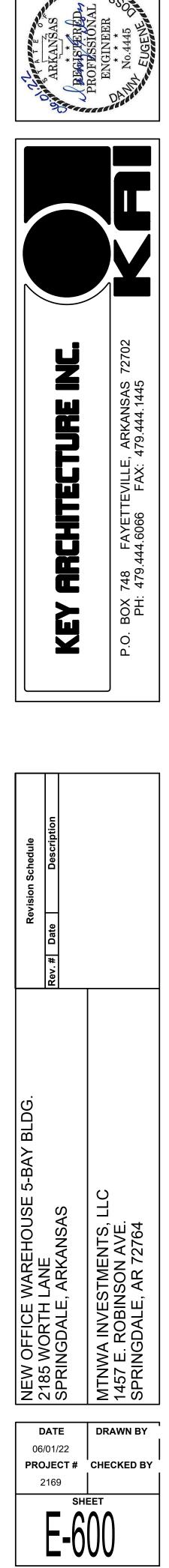
SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITEC ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR

OR COMPENSATED. COORDINATE PO BOX 427 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF ROGERS, AR 72756

TO BID, SHALL NOT BE AUTHORIZED

 PH 479.631.1712
 EQUIPMENT IN MECHANICAL ROUMING TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.

 PADI/FN/GIN/FFRS.COM
 WITH ANY ISSUES.



16010

	BASIC ELECTRICAL REQUIREMENTS		
PART 1	GENERAL	PART 1	GENERAL
1.01	SECTION INCLUDES	1.01	SECTION INCLUDES
A.	BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL	A. B.	BUILDING WIRE AND CABLE. WIRING CONNECTORS AND CONNECTIONS.
1.02	REQUIREMENTS. SUBMITTALS	1.02	PROJECT CONDITIONS
	SUBMIT UNDER PROVISIONS OF ARCHITECTURAL SPECIFICATIONS.		VERIFY THAT FIELD MEASUREMENTS ARE CONDUCTOR SIZES ARE BASED ON COPF
	SUBMIT THE FOLLOWING PRODUCTS: 1. WIRING DEVICES AND COVER PLATES.		PRODUCTS
	 DISCONNECT SWITCHES. PANELBOARDS. 	2.01	MANUFACTURERS
	4. LIGHT FIXTURES. INDICATE MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER	А.	GENERAL ELECTRIC, ROME, HATFIELD, CR
0.	WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATED ON DRAWINGS, ADJACENT THERETO.	2.02	TRIANGLE, ANACONDA. WIRE AND CABLE
D.	SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE NAME IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A		DESCRIPTION: SINGLE CONDUCTOR INSU
	STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS ARE	В.	CONDUCTOR: COPPER. INSULATION VOLTAGE RATING: 600 VOLT
	NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED BY THE ARCHITECT\ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO BIDS.	D.	INSULATION: ANSI/WFPA 70: TYPE THW INSULATION FOR FEEDERS AND BRANCH
1.03	REGULATORY REQUIREMENTS		8 AWG. TYPE THHN/THWN INSULATION CIRCUITS 8 AWG AND SMALLER. THW O CONDUIT SIZE IS INCREASED FOR FEEDE
A.	CONFORM TO APPLICABLE BUILDING CODES.		8 AWG AND SMALLER.
1.04	PROJECT\SITE CONDITIONS	PART 3	EXECUTION
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL.	3.01	WIRING METHODS
	THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT,		USE ONLY BUILDING WIRE IN RACEWAYS USE WIRING METHODS INDICATED ON DRA
	OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND	3.02	ALL CONDUCTORS IN PLENUM AREA SHAI
	EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.		USE SOLID CONDUCTOR FOR FEEDERS A
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL	В.	AND SMALLER, STRANDED CONDUCTOR 8 USE STRANDED CONDUCTORS FOR CONTR
	BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.	C.	USE CONDUCTOR NOT SMALLER THAN 12 LIGHTING CIRCUITS.
PART 2		D. E.	USE CONDUCTOR NOT SMALLER THAN 14 USE SOLDERLESS PRESSURE CONNECTOR FOR COPPER CONDUCTOR SPLICES AND
2.01	MATERIALS AND EQUIPMENT	F.	USE INSULATED SPRING WIRE CONNECTOR COPPER CONDUCTOR SPLICES AND TAPE.
A.	MATERIALS AND EQUIPMENT: ACCEPTABLE TO THE AUTHORITY		END OF SE
В.	HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED. ALL EQUIPMENT OF SAME OR SIMILAR SYSTEMS SHALL BE OF THE SAME MANUFACTURED		
C.	SAME MANUFACTURER. ALL ELECTRICAL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE STATED IN DRAWINGS.		
PART 3	EXECUTION	PART 1	GENERAL
3.01	WORKMANSHIP	1.01	SECTION INCLUDES
A.	INSTALL WORK USING PROCEDURES DEFINED IN NECA STANDARD OF	А. В.	WALL AND CEILING OUTLET BOXES. PULL AND JUNCTION BOXES.
	INSTALLATION.	1.02	PROJECT CONDITIONS
	END OF SECTION	A. B.	VERIFY FIELD MEASUREMENTS ARE AS SH ELECTRICAL BOXES ARE SHOWN ON DRA
			LOCATIONS UNLESS DIMENSIONED. INST FOR BOX TO SERVE INTENDED PURPOSE
		PART 2	PRODUCTS
		2.01	OUTLET BOXES
	16111	А.	SHEET METAL OUTLET BOXES: ANSI/NEM STEEL.
	CONDUIT		1. LUMINAIRE AND EQUIPMENT SUPPOR WEIGHT OF EQUIPMENT SUPPORTED,
PART 1	GENERAL	В.	FIXTURE STUDS WHERE REQUIRED. NONMETALLIC OUTLET BOXES: ANSI/NEM CAST BOXES: NEMA FB 1, TYPE FD CA
1.01	WORK INCLUDED	υ.	GASKETED COVER BY BOX MANUFACTURE
A. B.	INTERMEDIATE METAL CONDUIT AND FITTINGS.	2.02	PULL AND JUNCTION BOXES
C. D.			SHEET METAL BOXES: NEMA OS 1, GAL
Ε.	LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND FITTINGS. PRODUCTS		
2.01	MANUFACTURERS – CONDUIT	3.01	INSTALLATION INSTALL ELECTRICAL BOXES AS SHOWN (
	STEELDUCT, PITTSBURGH, NATIONAL, REPUBLIC, TRIANGLE,	A.	REQUIRED FOR SPLICES, TAPS, WIRE PU CONNECTIONS AND COMPLIANCE WITH RE
	ANACONDA.	В.	INSTALL PULL BOXES AND JUNCTION BO CEILINGS AND IN UNFINISHED AREAS ON
2.02	CONDUIT SUPPORTS	С.	OTHERWISE. INSTALL BOXES TO PRESERVE FIRE RESI
A.	CONDUIT CLAMPS, STRAPS, AND SUPPORTS: STEEL OR MALLEABLE IRON.	D.	PARTITIONS AND OTHER ELEMENTS. ALIGN ADJACENT WALL-MOUNTED OUTLET THERMOSTATS, AND SIMILAR DEVICES WIT
PART 3	EXECUTION	E.	USE CAST FLOOR BOXES FOR INSTALLAT FORMED STEEL BOXES ARE ACCEPTABLE
3.01	CONDUIT SIZING, ARRANGEMENT, AND SUPPORT	3.03	INTERFACE WITH OTHER PRODUCTS
A.	IF NOT INDICATED ON DRAWINGS, SIZE CONDUIT FOR CONDUCTOR TYPE INSTALLED: 1/2 INCH MINIMUM SIZE.	А.	LOCATE FLUSH MOUNTING BOX IN MASO
D.	CONCEAL ALL WORK IN WALLS AND ABOVE CEILINGS IN FINISHED ROOMS. NO CONDUIT SHALL BE INSTALLED ON OR ABOVE ROOF. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILINGS	D	CUTTING OF MASONRY UNIT CORNER ONI CUTTING TO ACHIEVE NEAT OPENING. COORDINATE MOUNTING HEIGHTS AND LO
	PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING.	D.	MOUNTED ABOVE COUNTERS, BENCHES A
3.02	CONDUIT INSTALLATION		END OF
A.	USE CONDUIT HUBS OR SEALING LOCKNUTS FOR FASTENING CONDUIT TO CAST BOXES, AND FOR FASTENING CONDUIT TO SHEET METAL		
B.	BOXES IN DAMP OR WET LOCATIONS. USE SUILE CONDUIT CAPS TO PROTECT INSTALLED CONDUIT AGAINST ENTRANCE OF DIRT AND MOISTURE.		
C.	INSTALL EXPANSION JOINTS WHERE CONDUIT CROSSES BUILDING EXPANSION JOINTS.	PART 1	GENERAL
D.	WHERE CONDUIT PENETRATES FIRE-RATED WALLS AND FLOORS, PROVIDE MECHANICAL FIRE-STOP FITTINGS WITH UL LISTED FIRE	1.01	SECTION INCLUDES
E.	RATING EQUAL TO WALL OR FLOOR RATING. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK		WALL SWITCHES.
	WHERE POSSIBLE; OTHERWISE, ROUTE THROUGH ROOF JACK WITH PITCH POCKET.	В. С.	RECEPTACLES. DEVICES PLATES AND COVERS.
3.03	CONDUIT INSTALLATION SCHEDULE	PART 2	PRODUCTS
A.	INSTALLATIONS IN SLAB OR UNDER CONCRETE SLAB ON GRADE: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT.	2.01	WALL SWITCHES
В.	IN SLAB ABOVE GRADE: RIGID GALVANIZED CONDUIT, ELECTRICAL METALLIC TUBING, INTERMEDIATE METAL CONDUIT.	А.	MANUFACTURERS: ARROW HART, GENERA PASS & SEYMOUR, SLATER.
	CONCEALED DRY INTERIOR LOCATIONS: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING. EXPOSED DRY INTERIOR LOCATIONS: RIGID GALVANIZED CONDUIT,	B. C.	DEVICE BODY: PLASTIC BODY WITH IVOF VOLTAGE RATING: 120–277 VOLTS, AC.
D.	INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING.	D. E.	CURRENT RATING: 20 AMPERES. DESCRIPTION: NEMA WD 1, SPECIFICATIO SWITCH AS FOLLOWS:
	END OF SECTION		 SINGLE POLE: ARROW HART 1221. DOUBLE POLE: ARROW HART 1222.
			3. THREE WAY: ARROW HART 1223.

INECTIONS.

IENTS ARE AS SHOWN ON DRAWINGS. ON COPPER.

ATFIELD, CRESENT, GENERAL CABLE,

ICTOR INSULATED WIRE.

600 VOLTS. TYPE THW, THHN/THWN OR XHHW BRANCH CIRCUITS LARGER THAN ISULATION FOR FEEDERS AND BRANCH THW OR XHHW MAY BE USED IF FOR FEEDERS AND BRANCH CIRCUITS

RACEWAYS IN ALL LOCATIONS. ED ON DRAWINGS. AREA SHALL BE PLENUM RATED.

FEEDERS AND BRANCH CIRCUITS 10 AWG DUCTOR 8 AWG AND LARGER. FOR CONTROL CIRCUITS. R THAN 12 AWG FOR POWER AND

R THAN 14 AWG FOR CONTROL CIRCUITS. CONNECTORS WITH INSULATING COVERS LICES AND TAPE, 6 AWG AND LARGER. CONNECTORS WITH PLASTIC CAPS FOR AND TAPE, 8 AWG AND SMALLER.

END OF SECTION

16130 BOXES

ARE AS SHOWN ON DRAWINGS. IN ON DRAWINGS IN APPROXIMATE

IED. INSTALL AT LOCATION REQUIRED PURPOSE.

ANSI/NEMA OS 1. GALVANIZED

NT SUPPORTING BOXES: RATED FOR JPPORTED, INCLUDE $1 \ge 1 \le 1$ EQUIRED.

ANSI/NEMA OS 2. YPE FD CAST FERALLOY. PROVIDE NUFACTURER. PROVIDE THREADED HUBS.

OS 1, GALVANIZED STEEL.

SHOWN ON DRAWINGS. AND AS WIRE PULLING, EQUIPMENT E WITH REGULATORY REQUIREMENTS.

NCTION BOXES ABOVE ACCESSIBLE AREAS ONLY, UNLESS NOTED FIRE RESISTANCE RATING OF

FED OUTLET BOXES FOR SWITCHES, EVICES WITH EACH OTHER. INSTALLATIONS IN SLAB ON GRADE; CCEPTABLE FOR OTHER INSTALLATIONS.

IN MASONRY WALL TO REQUIRE ORNER ONLY. COORDINATE MASONRY

TS AND LOCATIONS OF OUTLETS BENCHES AND BACKSPLASHES.

END OF SECTION

16141 WIRING DEVICES

RT, GENERAL ELECTRIC, HUBBELL, LEVITON,

WITH IVORY NYLON TOGGLE HANDLE. VOLTS, AC.

PECIFICATION GRADE, AC TOGGLE

(CON'T.)

2.02 RECEPTACLES

(CON'T.)

3.02 NAMEPLATE ENGRAVING SCHEDULE

Α.

B.

BELOW.

PROVIDE NAMEPLATES OF MINIMUM LETTER HEIGHT AS SCHEDULED

A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.

- B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE. CONVENIENCE AND STRAIGHT-BLADE RECEPTACLES: NEMA WD 1. SPECIFICATION GRADE, GROUNDING TYPE; LOCKING-BLADE RECEPTACLES: NEMA WD 5, SPECIFICATION GRADE, GROUNDING TYPE; AS FOLLOWS:
- 1. DUPLEX RECEPTACLE 20 A, 125 V: HUBBELL 5362, ARROW HART 5362, P & S 5362, SLATER 5362-AG, LEVITON 5362, OR G.E. 5362-1.
- 2. COMPUTER DUPLEX RECEPTACLE 20A, 125V ISOLATED GROUND: HUBBELL IG 5362, ARROW HART I-5362, P & S IG6300, SLATER IG5362-AG-OR, LEVITON 5362-IG, OR G.E. 5362-IG2.

2.03 WALL PLATES

- A. HIGH IMPACT NYLON, IVORY COLOR, SAME AS DEVICE MANUFACTURER, TO MATCH DEVICE.
- PART 3 EXECUTION
- 3.01 EXAMINATION
- A. VERIFY OUTLET BOXES ARE INSTALLED AT PROPER HEIGHT. B. VERIFY WALL OPENINGS ARE NEATLY CUT AND WILL BE COMPLETELY COVERED BY WALL PLATES.
- 3.02 PREPARATION
- A. PROVIDE EXTENSION RINGS TO BRING OUTLET BOXES FLUSH WITH FINISHED SURFACE, IF REQUIRED.
- 3.03 INSTALLATION
 - A. CONNECT WIRING DEVICE GROUNDING TERMINAL TO BRANCH
 - CIRCUIT EQUIPMENT GROUNDING CONDUCTOR. B. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND
 - SCREW TERMINAL
 - C. USE JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.
- D. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE ACCESSIBLE CEILINGS AND ON SURFACE MOUNTED OUTLETS IN STOCKROOM AREAS.

END OF SECTION

16190 SUPPORTING DEVICES

- PART 1 GENERAL
- 1.01 WORK INCLUDED
- A. CONDUIT AND EQUIPMENT SUPPORTS.
- B. FASTENING HARDWARE. 1.02 QUALITY ASSURANCE
- A. SUPPORT SYSTEMS SHALL BE ADEQUATE FOR WEIGHT OF EQUIPMENT
- AND CONDUIT, INCLUDING WIRING, WHICH THEY CARRY.
- PART 2 PRODUCTS
- 2.01 MATERIAL
- A. SUPPORT CHANNEL: GALVANIZED OR PAINTED STEEL. B. HARDWARE: CORROSION RESISTANT.
- PART 3 EXECUTION
- 3.01 INSTALLATION
- A. FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDING STRUCTURE.
- B. USE TOGGLE BOLTS OR HOLLOW WALL FASTENERS IN HOLLOW MASONRY, PLASTER, OR GYPSUM BOARD PARTITIONS AND WALLS; EXPANSION ANCHORS OR PRESET INSERTS IN SOLID MASONRY WALLS:
- SELF-DRILLING ANCHORS OR EXPANSION ANCHOR ON CONCRETE SURFACES; SHEET METAL SCREWS IN SHEET METAL STUDS; AND WOOD SCREWS IN WOOD CONSTRUCTION.
- C. DO NOT FASTEN SUPPORTS TO METAL DECK, PIPING, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT.
- DO NOT USE POWDER-ACTUATED ANCHORS.
- DO NOT WELD TO OR DRILL BUILDING STRUCTURAL STEEL MEMBERS.
- FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR STEEL CHANNEL, RIGIDLY WELDED OR BOLTED TO PRESENT A NEAT APPEARANCE. USE
- HEXAGON HEAD BOLTS WITH SPRING LOCK WASHERS UNDER ALL NUTS. G. INSTALL SURFACE-MOUNTED CABINETS AND PANELBOARDS WITH
- MINIMUM OF FOUR ANCHORS. H. BRIDGE STUDS TOP AND BOTTOM WITH CHANNELS TO SUPPORT FLUSH-MOUNTED CABINETS AND PANELBOARDS IN STUD WALLS.

END OF SECTION

16195 ELECTRICAL IDENTIFICATION

PART 1 GENERAL

- 1.01 WORK INCLUDED
 - A. NAMEPLATES AND TAPE LABELS.
- B. WIRE AND CABLE MARKERS.
- PART 2 PRODUCTS 2.01 MATERIALS
- A. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE
- LETTERS ON A BLACK BACKGROUND. B. TAPE LABELS: EMBOSSED ADHESIVE TAPE, WITH 3/16 INCH WHITE
- LETTERS ON A BLACK BACKGROUND. C. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.
- PART 3 EXECUTION
- 3.01 INSTALLATION
 - A. USE EMBOSSED TAPE ONLY FOR IDENTIFICATION OF INDIVIDUAL WALL SWITCHES. RECEPTACLES AND CONTROL DEVICE STATIONS WHERE NOTED ON DRAWINGS.

PANELBOARDS: 3/4 INCH, IDENTIFY EQUIPMENT DESIGNATION. 3/4 INCH, IDENTIFY VOLTAGE RATING AND SOURCE. INDIVIDUAL CIRCUIT BREAKERS, SWITCHES, AND MOTOR STARTERS IN PANELBOARDS, SWITCHBOARDS, AND MOTOR CONTROL CENTERS: 1/8 INCH, IDENTIFY CIRCUIT AND LOAD SERVED, INCLUDING LOCATION. INDIVIDUAL CIRCUIT BREAKERS, ENCLOSED SWITCHES AND MOTOR STARTERS: 1/4 INCH, IDENTIFY LOAD SERVED. END OF SECTION 16470 PANELBOARDS PART 1 GENERAL 1.01 WORK INCLUDED A. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS. 1.02 SPARE PARTS A. KEYS: FURNISH TWO EACH TO OWNER. PART 2 PRODUCTS ACCEPTABLE MANUFACTURERS – PANELBOARDS 2.01 A. SQUARE D, GENERAL ELECTRIC, ITE/SIEMENS-ALLIS, WESTINGHOUSE, CUTLER HAMMER. 45 45 2.02 PANELBOARDS ARKAN 79.444. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS: CIRCUIT BREAKER TYPE AS INDICATED ON THE PANELBOARD SCHEDULES ON DRAWINGS. PROVIDE CABINET FRONT WITH CONCEALED TRIM CLAMPS, CONCEALED HINGE AND FLUSH LOCK ALL KEYED ALIKE. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL. FAX: FAX: B. ENCLOSURE: TYPE 1. MINIMUM SHORT CIRCUIT RATING: AS SHOWN ON DRAWINGS. μ PROVIDE PANELBOARDS WITH COPPER BUS RATINGS AS SCHEDULED ON DRAWINGS. PROVIDE GROUND BUS IN ALL PANELBOARDS. MOLDED CASE CIRCUIT BREAKERS: BOLT-ON TYPE THERMAL MAGNETIC AYET .6066 TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE CIRCUIT BREAKERS UL LISTED AS TYPE SWD FOR LIGHTING CIRCUITS. PROVIDE UL CLASS A GROUND FAULT INTERRUPTER CIRCUIT Щ 4 BREAKERS WHERE SCHEDULED ON DRAWINGS. 748 479 PART 3 EXECUTION 3.01 INSTALLATION ХЧ A. HEIGHT: 6 FEET TO TOP SWITCH OR CIRCUIT BREAKER IN ш PANELBOARDS, UNLESS OTHERWISE NOTED. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS. END OF SECTION 16510 INTERIOR LUMINARIES PART 1 GENERAL 1.01 SECTION INCLUDES A. INTERIOR LUMINARIES AND ACCESSORIES. B. EMERGENCY LIGHTING UNITS. EXIT SIGNS. BALLASTS. LAMPS. F. LUMINAIRE ACCESSORIES. PART 2 PRODUCTS 2.01 LUMINARIES A. THE LIGHTING FIXTURES ARE SHOWN ON THE DRAWINGS WITH A LETTER OR LETTER/NUMBER KEY. THE LETTER OR LETTER/NUMBER OF THE KEY INDICATES THE TYPE OF THE FIXTURE. B. FIXTURE MANUFACTURERS: AS SCHEDULED IN LIGHT FIXTURE SCHEDULE ON DRAWINGS. 2.02 BALLAST A. MANUFACTURERS: ADVANCE, UNIVERSAL, GENERAL ELECTRIC, JEFFERSON. DESCRIPTION: ANSI C82.1, HIGH POWER FACTOR TYPE BALLAST. PROVIDE BALLAST SUITABLE FOR LAMPS SPECIFIED. 4. SOURCE QUALITY CONTROL: CERTIFY BALLAST DESIGN AND CONSTRUCTION BY CERTIFIED BALLAST MANUFACTURERS, INC. 3.03 LAMPS A. MANUFACTURERS: SYLVANIA, GENERAL ELECTRIC, NORTH AMERICAN PHILLIPS/WESTINGHOUSE. 2. FLUORESCENT LAMPS SHALL BE OF TYPE SPECIFIED ON LIGHT FIXTURE SCHEDULE AND PLANS. PART 3 EXECUTION ADVANCED ш <u></u> CONSULTING 3.01 EXAMINATION ENGINEERS, INC. ŃЩ4 IWA INVESTMENTS 7 E. ROBINSON AVI INGDALE, AR 7276 A. EXAMINE EACH LUMINAIRE TO DETERMINE SUITABILITY FOR LAMPS No. 27 SPECIFIED. ⁹RKANSA 3.02 INSTALLATION PRIOR TO BID/START OF A. EXPOSED GRID CEILINGS: FURNISH AND INSTALL AUXILIARY CONSTRUCTION REQUIREMENTS штЩ MEMBERS SPANNING CEILING TEES TO SUPPORT SURFACE MOUNTED THESE DOCUMENTS ARE LUMINARIES. DIAGRAMMATIC IN NATURE AND IN INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELOW. SOME CASES, BASED ON INSTALL RECESSED LUMINARIES USING ACCESSORIES AND INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR FIRESTOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR SHALL VERIFY EXISTING FIRE RATING. CONDITIONS IN THE FIELD PRIOR TO ≥ ≌ ⊾ MTNV 1457 SPRI D. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING BID. ANY DISCREPANCIES OR WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR Z ∾ N WITHIN LUMINAIRE. TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO 3.03 ADJUSTING THE ATTENTION OF THE ARCHITEC ANY COST SAVINGS OPTIONS OR DRAWN BY DATE REUSE OF EXISTING EQUIPMENT, A. AIM AND ADJUST LUMINARIES AS INDICATED ON DRAWINGS OR AS MATERIAL OR DEVICES SHALL BE 06/01/22 DIRECTED. MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW PROJECT # CHECKED BY ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OF 2169 END OF SECTION FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED SHEET OR COMPENSATED. COORDINATE PO BOX 427 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF ROGERS, AR 72756 CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM PH 479.631.1712 || TO ENSURE PROPER SPACE AND

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