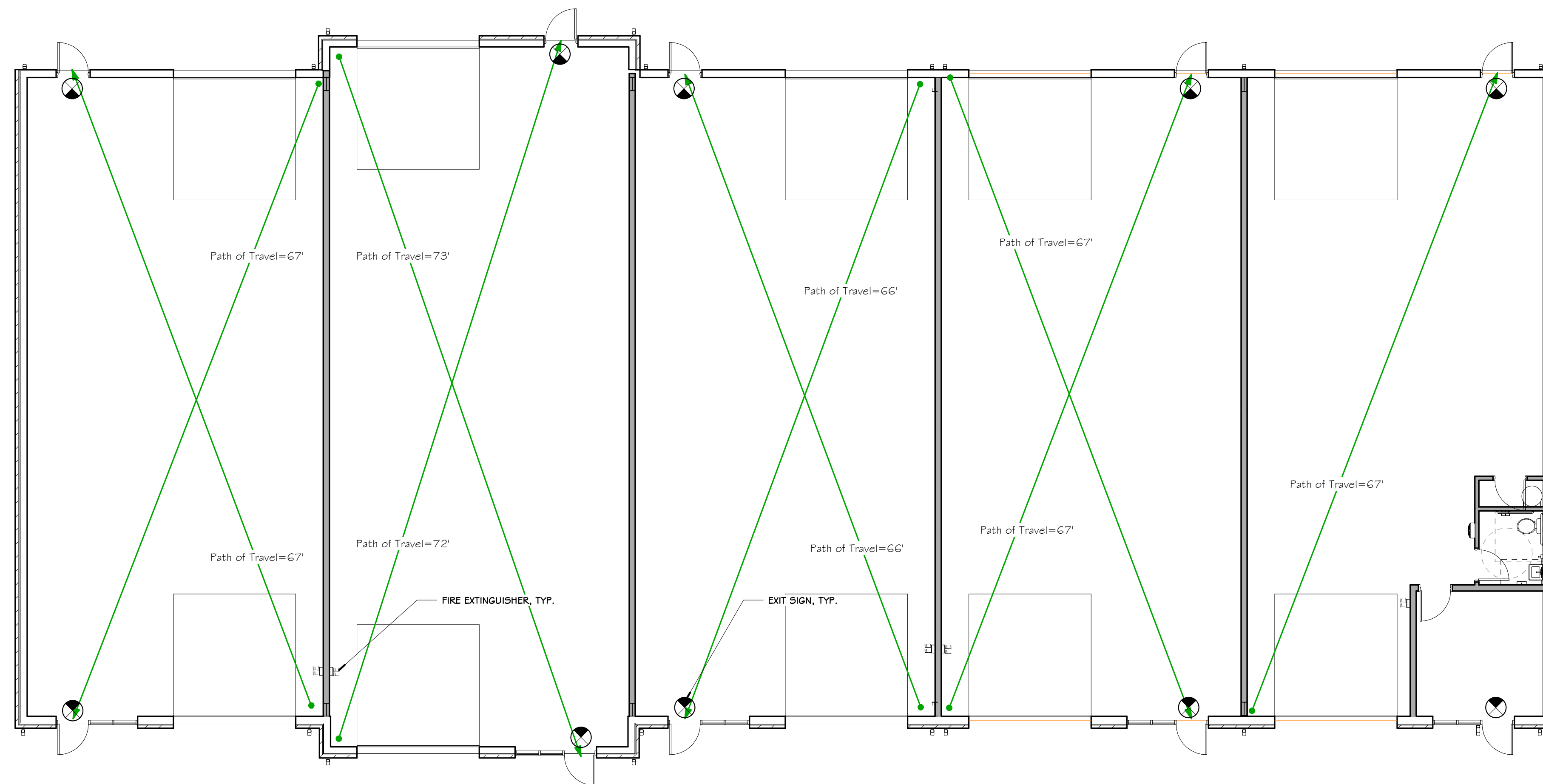


NEW OFFICE WAREHOUSE 5-BAY BLDG.

2185 WORTH LANE

SPRINGDALE, ARKANSAS



1 LIFE SAFETY PLAN
SCALE = 1/8" = 1'-0"

CODE AND PROJECT DEVELOPMENT DATA

BUILDING CODE: 2012 ARKANSAS FIRE PREVENTION CODE, VOL. II (2012 IBC WITH AMENDMENTS)
2017 NATIONAL ELECTRICAL CODE
2006 ARKANSAS PLUMBING CODE
2006 ARKANSAS STATE FUEL & GAS CODE
2010 ARKANSAS MECHANICAL CODE
2011 ARKANSAS ENERGY CODE
2009 ANSI A-117.1

OCCUPANCY (Chapter 3 Use and Occupancy) B-BUSINESS

TYPE CONSTRUCTION: IIIB - NOT SPRINKLERED
STRUCTURAL FRAME NON-COMBUSTIBLE- 0 HR
INTERIOR BEARING WALLS COMBUSTIBLE- 0 HR
EXTERIOR NON-BEARING WALLS NON-COMBUSTIBLE- 0 HR
INTERIOR NON-BEARING WALLS COMBUSTIBLE- 0 HR
ROOF/CEILING COMBUSTIBLE- 0 HR

FIRE SEPARATION DISTANCES:
NORTH >30'
EAST >30'
SOUTH 20'
WEST >30'

ALLOWABLE HEIGHT & BUILDING AREA:
ALLOWABLE SF PER FLOOR, (Table 503) = 19,000sf
ALLOWABLE # FLOORS (Table 503) = 3 FLOORS
AREA INCREASE DUE TO FRONTAGE (506.1)
I = [F/P - 0.25]W/30 = N/A
AREA INCREASE DUE TO SPRINKLERS (506.3) (one story), Is = A x 3 = N/A
TOTAL ALLOWABLE AREA PER FLOOR (506.2) = 19,000 sf

TOTAL ENCLOSED AREA: 9,784 sf

TOTAL OCCUPANTS: (Table 1004.1.2) B-BUSINESS, 100 GROSS = 9,784 sf / 100 sf = 98 PEOPLE

MEANS OF EGRESS SIZING: (1005)
(1005.3.1) STAIRWAYS #PEOPLE x 3" = N/A
(1005.3.2) 98 PEOPLE x 2' / PERSON = 19.6' REQUIRED
10 DOORS x 32' = 320' PROVIDED

TRAVEL DISTANCE ALLOWED: (Table 1016.2) B-BUSINESS, NOT SPRINKLERED 200'

Sheet Index

#	Sheet Name
A0.0	COVER SHEET
A1.1	FLOOR PLAN
A1.2	ROOF PLAN & SCHEDULES
A2.1	ELEVATIONS
A3.1	WALL SECTIONS
S0	STRUCTURAL NOTES AND DETAILS
S1	FOUNDATION PLAN
S2	FOUNDATION DETAILS
M000	MECHANICAL LEGEND
M100	MECHANICAL SCHEDULE
M700	MECHANICAL SPECS
P000	PLUMBING NOTES
P100	PLUMBING PLAN
P400	ENLARGED PLUMBING PLAN
P500	PLUMBING DETAILS
P600	PLUMBING RISERS
P700	PLUMBING SPECS
E000	ELECTRICAL NOTES
E100	LIGHTING PLAN
E101	POWER PLAN
E400	UNDERGROUND POWER PLAN
E600	PANEL SCHEDULE
E700	ELECTRICAL SPECS



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

PERMIT SET

Revision Schedule	Description
Rev. #	Date

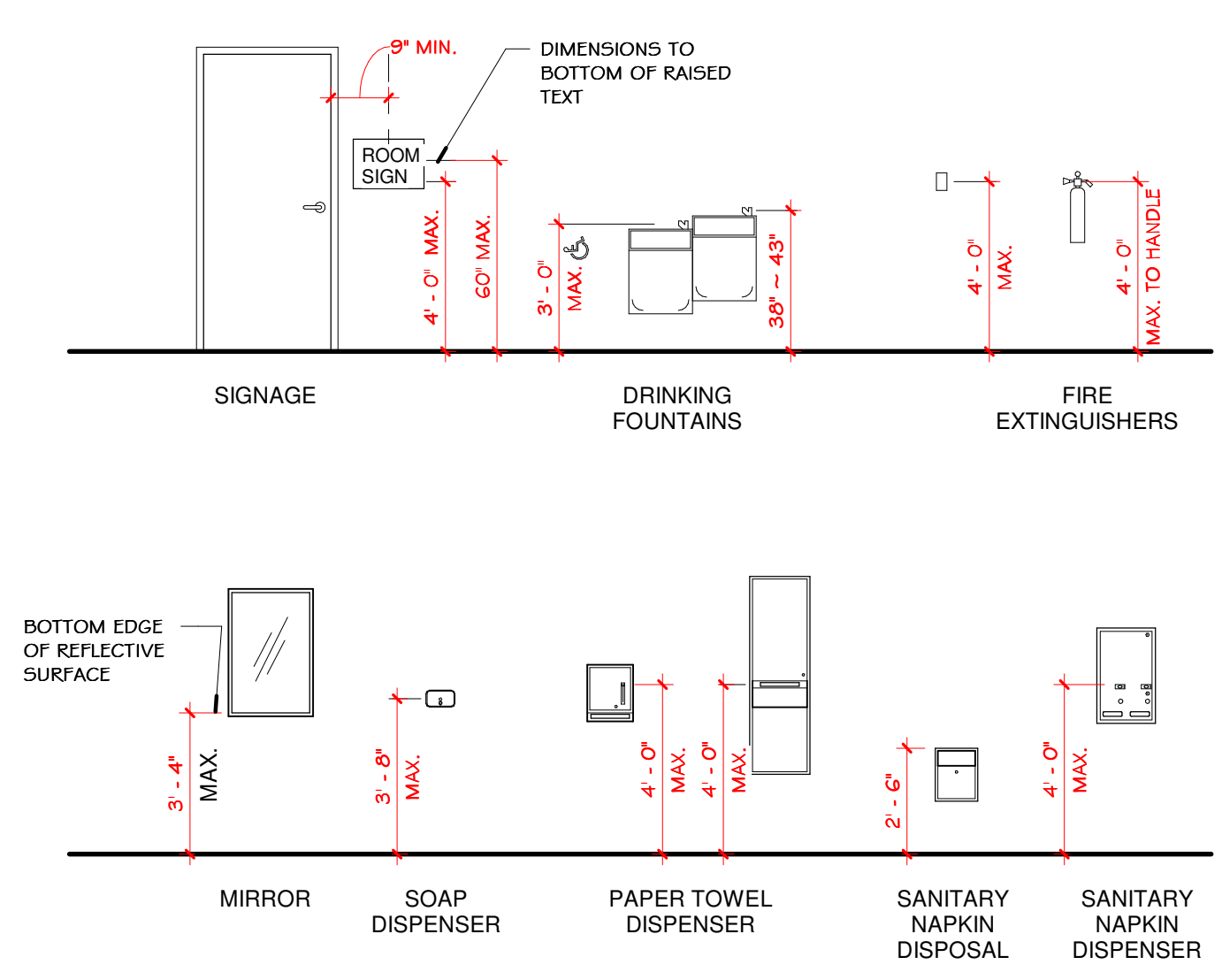
NEW OFFICE WAREHOUSE 5-BAY BLDG.
2185 WORTH LANE
SPRINGDALE, ARKANSAS
MTNWA INVESTMENTS, LLC
1457 E. ROBINSON AVE.
SPRINGDALE, AR 72764

DATE	DRAWN BY
06/01/22	ELP
PROJECT #	CHECKED BY
2169	JTK

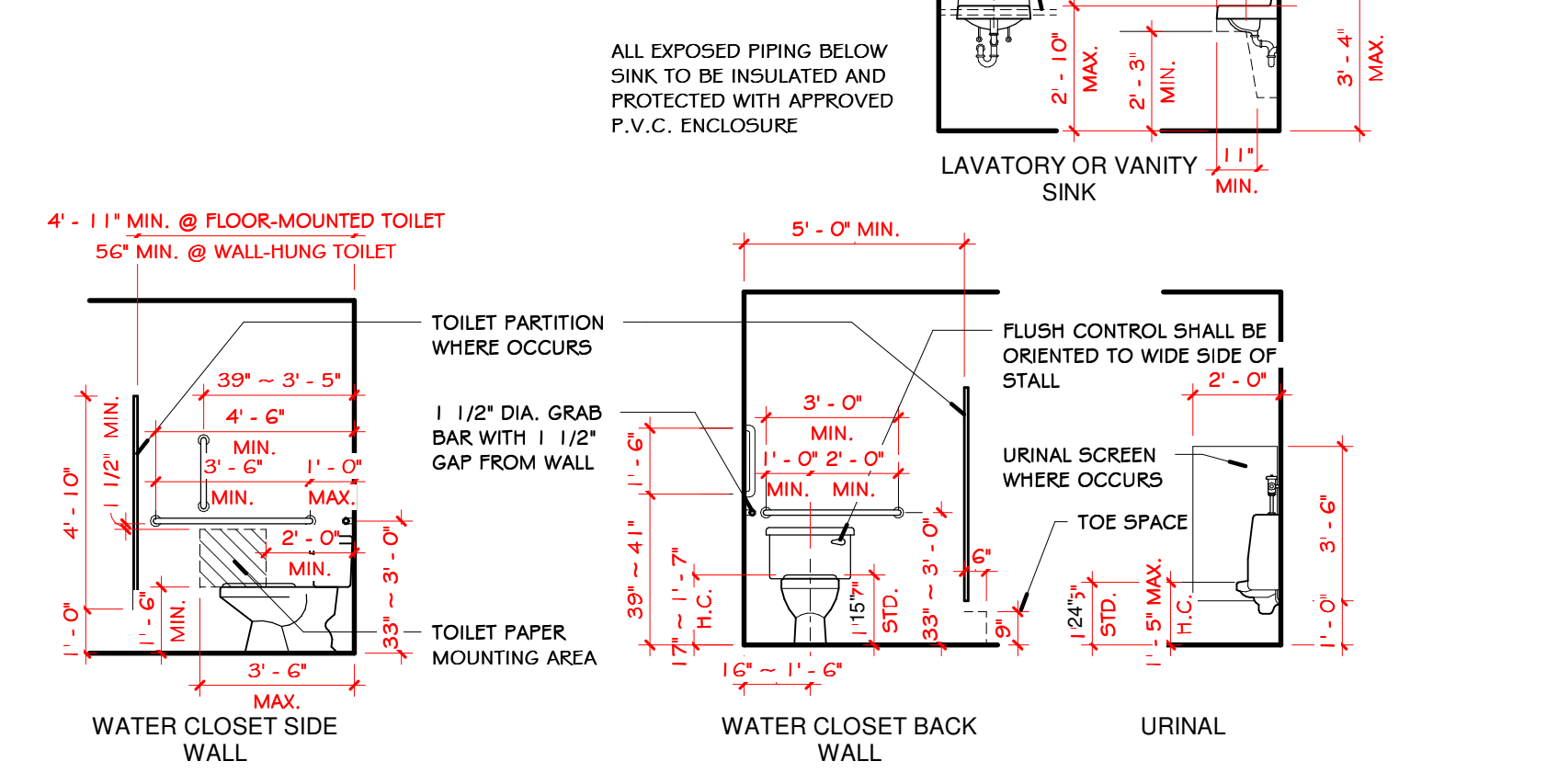
SHEET
A0.0
COVER SHEET

These Drawings and Specifications are the exclusive property of Key Architecture Inc. and are protected by Copyright. Use or reproduction is prohibited without written consent.

As indicated 7/26/2022 9:47:51 AM S:\2169 MTNWA - New Warehouse Office\2169 MTNWA OFFICE-WAREHOUSE 2185 - 5-bay building.rvt



TYPICAL MOUNTING HEIGHTS
ALL EQUIPMENT AND FIXTURES SHALL BE MOUNTED AT LOCATIONS WHICH MEET THE STATE BUILDING CODE AND THE AMERICANS WITH DISABILITIES ACT.



PROJECT TEAM DATA

ARCHITECT: KEY ARCHITECTURE INC.
P.O. BOX 748
FAYETTEVILLE, ARKANSAS 72702
315 SOUTH GREGG
FAYETTEVILLE, ARKANSAS 72701
PH: (479) 444-6066
FAX: (479)444-1445

CONSULTANTS
STRUCTURAL: LA ENGINEERING, INC.
213 W. MONROE AVE, SUITE J
LOWELL, ARKANSAS 72745
PH: (479) 770-6650

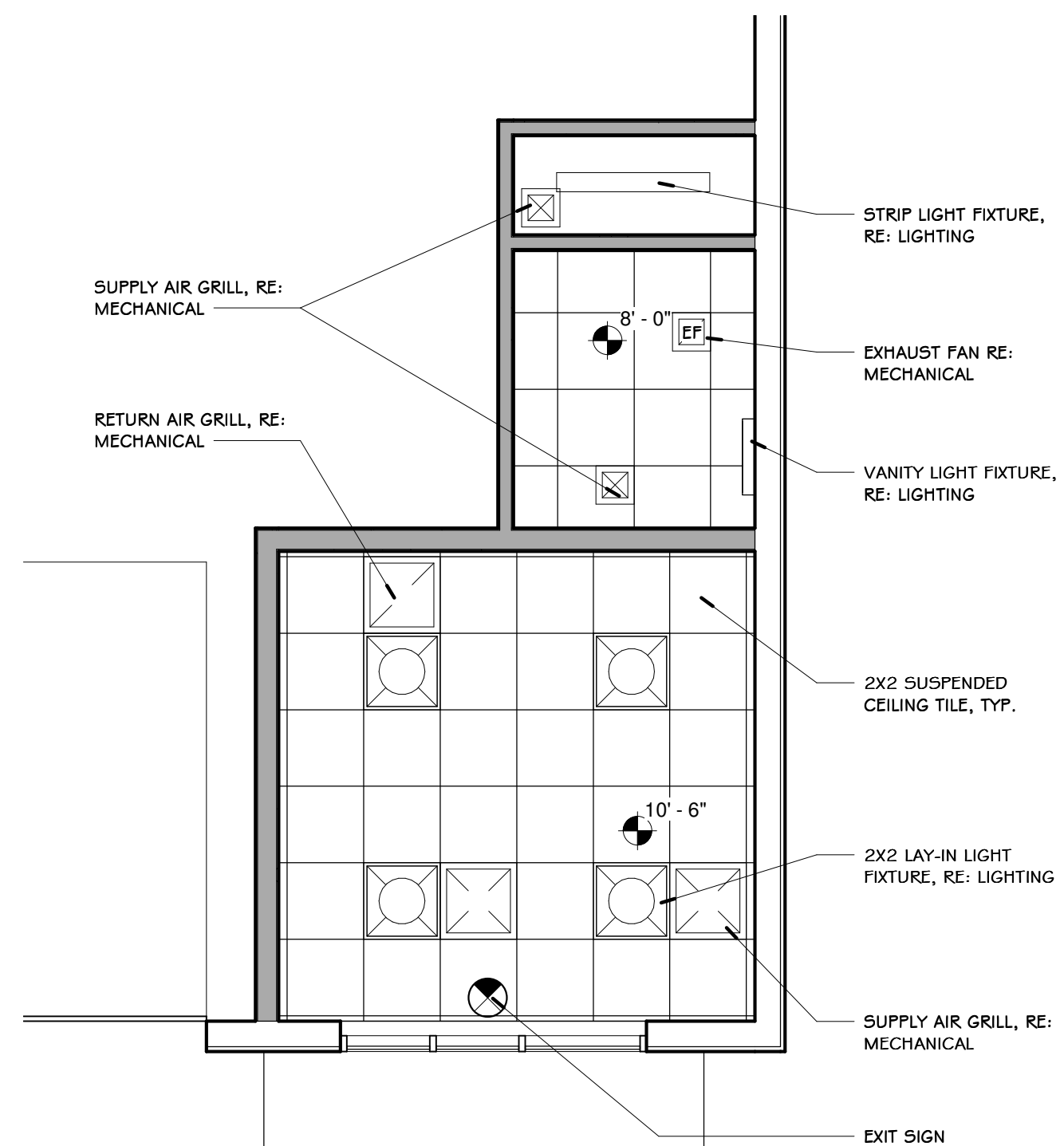
MECHANICAL: ADVANCED CONSULTING ENGINEERS
132 W KELLEY DR.
ROGERS, ARKANSAS 72756
PH: (479) 831-1712

CIVIL: ENGINEERING SERVICES, INC.
1207 S OLD MISSOURI RD.
SPRINGDALE, ARKANSAS 72764
PH: (479) 751-8733

IT IS EXPRESSLY UNDERSTOOD THAT THE ARCHITECT SHALL NOT PERFORM CONSTRUCTION ADMINISTRATION SERVICES, UNLESS, AND ONLY TO THE EXTENT SPECIFICALLY REQUESTED BY THE CLIENT AS ADDITIONAL SERVICES. ACCORDINGLY, THE ARCHITECT SHALL NOT BE LIABLE TO THE CLIENT, TO THE OWNER OR TO ANY PARTY WORKING FOR OR THROUGH THE CLIENT OR THE OWNER, FOR ERRORS OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS, WHICH ARE, OR WHICH UPON THE EXERCISE OF REASONABLE CARE SHOULD HAVE BEEN DISCOVERED DURING THE CONSTRUCTION OF WORK. LIKEWISE, THE ARCHITECT SHALL NOT BE LIABLE TO THE CLIENT, TO THE OWNER OR TO ANY PARTY WORKING FOR OR THROUGH THE CLIENT OR THE OWNER, FOR ANY CHANGES IN DESIGN OR CONSTRUCTION MADE DURING CONSTRUCTION WITH-OUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT. THE CLIENT AND/OR THE OWNER SHALL HOLD HARMLESS, INDEMNIFY AND DEFEND THE ARCHITECT FROM AND AGAINST ANY AND ALL CLAIMS OR CAUSES OF ACTION FOR COST OR DAMAGES WHICH a) ARE DISCOVERED UPON THE EXERCISE OF REASONABLE CARE SHOULD HAVE BEEN DISCOVERED BY THE OWNER OR CONTRACTOR, AND WHICH ARE NOT BROUGHT TO THE ARCHITECT'S ATTENTION FOR REVIEW AND ACTION BEFORE FURTHER WORK IS PERFORMED; b) ARISE FROM CHANGES IN CONSTRUCTION AND/OR DESIGN NOT APPROVED IN WRITING BY THE ARCHITECT; AND/OR c) FOR ERRORS OR OMISSIONS OF THE CONTRACTOR OR OF OTHER CONSULTANTS TO THE CLIENT AND/OR OWNER.

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS, WITH THE REQUIREMENTS OF THE MUNICIPAL AUTHORITY AND ALL FEDERAL REGULATIONS.

BY: DATE: 06/01/22



2 OFFICE CEILING PLAN
SCALE = 1/4" = 1'-0"

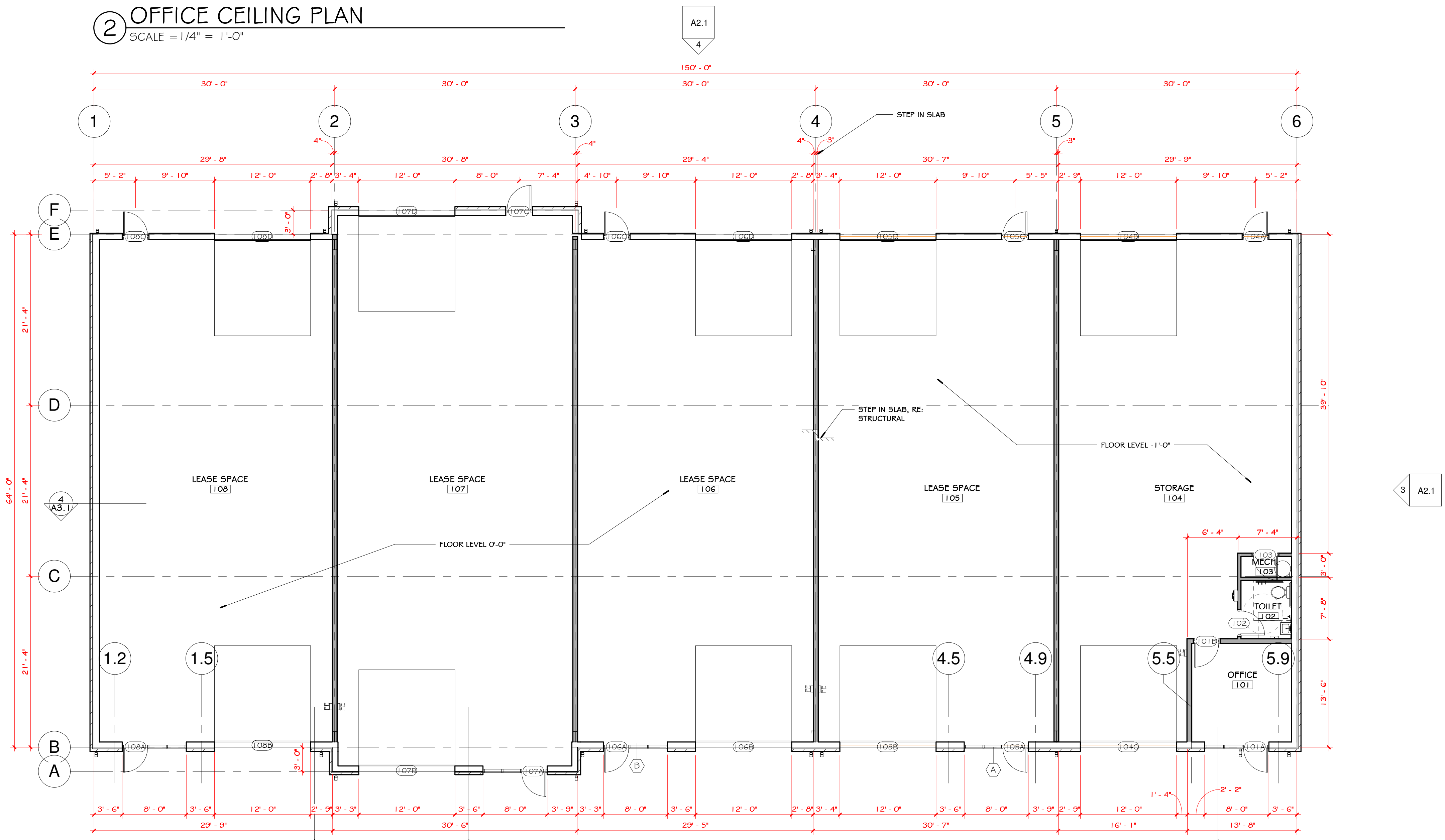
Mark	Room Name	Width	Height	Frame		Door		Glazing	Comments
				Type	Finish	Type	Finish		
101A	OFFICE	3'-0"	7'-0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP	
101B	OFFICE	3'-0"	7'-0"	HM	PT	SCWD	ST		
102	TOILET	3'-0"	7'-0"	HM	PT	SCWD	ST		
103	MECH.	3'-0"	7'-0"	HM	PT	SCWD	ST		
104A	STORAGE	3'-0"	7'-0"	HM	PT	HM	PT		
104B	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"						1
107C	LEASE SPACE	3'-0"	7'-0"	HM	PT	HM	PT		
107D	LEASE SPACE	12'-0"	12'-0"						1
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

KEYED DOOR NOTES:
1. INSULATED OVERHEAD DOOR

- GENERAL NOTES**
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY AND ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
 - ALL WORK AND ALL FINISHES, INCLUDING TYPE, COLOR AND LOCATION, SHALL BE COORDINATED WITH THE OWNER.
 - 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.
 - VERIFY ALL DIMENSIONS, DOOR AND WINDOW SIZES AND LOCATIONS PRIOR TO LAYOUT WITH THE OWNER. COORDINATE ALL OWNER PROVIDED EQUIP.
 - ALL DOOR AND WINDOW DIMENSIONS ARE NOMINAL AND MUST BE COORDINATED WITH MANUFACTURERS. ROUGH OPENING DIMENSIONS ARE TO BE COORDINATED WITH DOOR AND WINDOW SHOP DRAWINGS.
 - 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.
 - PROVIDE FIRE EXTINGUISHERS PER NFPA-10 AND COORDINATE WITH LOCAL BUILDING AND/OR FIRE OFFICIALS.
 - PROVIDE KNOX BOX ON EXTERIOR OF BUILDING, COORDINATE EXACT LOCATION WITH LOCAL BUILDING AND/OR FIRE OFFICIALS.
 - PROVIDE WOOD BLOCKING IN STUD WALLS FOR ANCHORAGE OF GRAB BARS, PAPER HOLDERS, VANITIES, WALL MOUNTED DOOR STOPS, SINKS, SHELVS, TELEVISIONS ETC. COORDINATE WITH OWNER PRIOR TO COVER-UP.
 - PROVIDE BATT INSULATION AT ALL EXTERIOR WALLS AND SOUND ATTENUATION BLANKETS AT ALL NEW WALLS AT TOILET AREAS UNLESS NOTED OTHERWISE.
 - 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.
 - TOILET ROOM TO BE PROVIDED WITH FORCED AIR VENTILATION TO THE EXTERIOR.
 - PROVIDE ROOM SIGNAGE AT ALL DOORS AS REQUIRED BY THE INTERNATIONAL BUILDING CODE, ANSI A117.1, 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 CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND VERIFY ROUGH OPENINGS WITH WINDOW MANUFACTURERS 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.



1 FLOOR PLAN
SCALE = 1/8" = 1'-0"



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

PERMIT SET

Revision Schedule	Description
Rev. #	Date

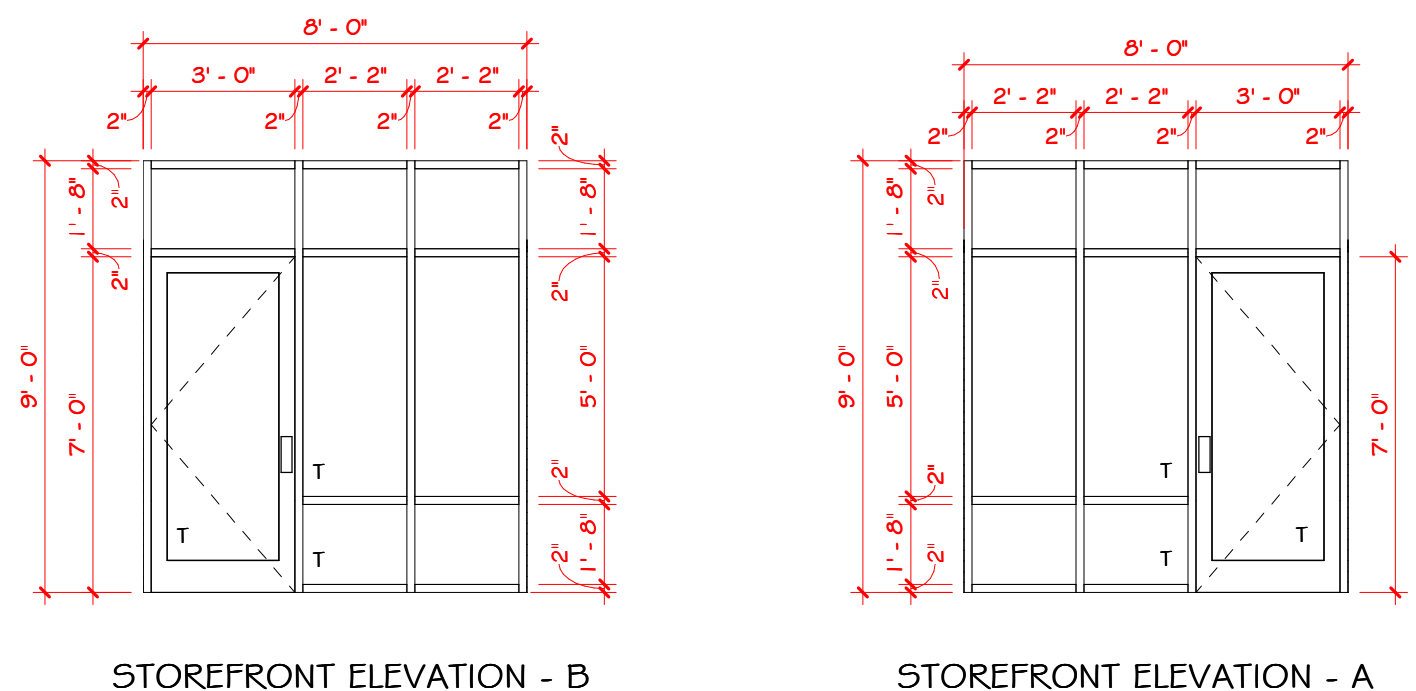
NEW OFFICE WAREHOUSE 5-BAY BLDG.
2185 WORTH LANE
SPRINGDALE, ARKANSAS

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

DATE	DRAWN BY
06/01/22	ELP
PROJECT #	CHECKED BY
2189	JTK

SHEET
A1.1
FLOOR PLAN

These Drawings and Specifications are the exclusive property of Key Architecture Inc. and are protected by Copyright. Use or reproduction is prohibited without written consent.



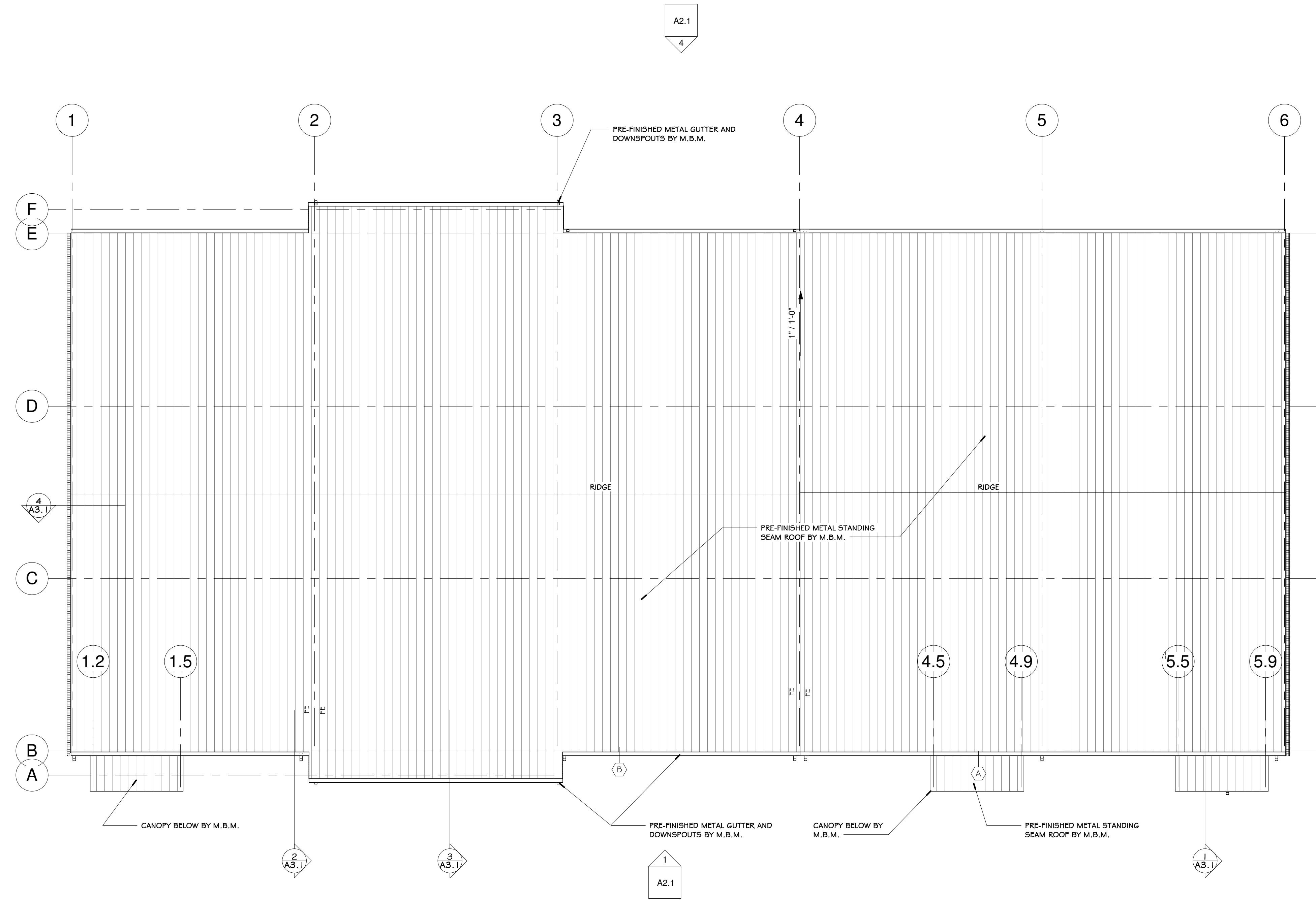
CLEAR ANODIZED ALUMINUM FRAMES
 1" DOUBLE PANE INSULATED GLAZING
 T = TEMPERED PANELS

Mark	Room Name	Width	Height	Door Schedule				Glazing	Comments
				Frame		Door			
				Type	Finish	Type	Finish		
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"						1
107C	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT		
107D	LEASE SPACE	12' - 0"	12' - 0"						1
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

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

GENERAL DOOR & WINDOW NOTES

1. ALL DOORS, WINDOWS AND FRAMES TO BE FINISHED PER OWNERS REQUIREMENTS.
2. 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 MANUFACTURERS SHOP DRAWINGS.
3. ALL DOOR AND WINDOW TYPES AND MANUFACTURER TO BE DETERMINED BY THE OWNER.
4. ALL HARDWARE TO COMPLY WITH REQUIREMENTS FOR EGRESS AND ACCESSIBILITY.
5. 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.
6. REFER TO PLAN AND/OR DOOR-SCHEDULE FOR DOOR SIZES AND NOTES ON SPECIAL DOOR TYPES.
7. ALL MULTI-USE TOILET ROOMS TO BE PROVIDED SELF-CLOSING



1 ROOF PLAN
 SCALE = 1/8" = 1'-0"



KEY ARCHITECTURE INC.
 P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
 PH: 479.444.6066 FAX: 479.444.1445

PERMIT SET

Revision Schedule	Description
Rev. #	Date

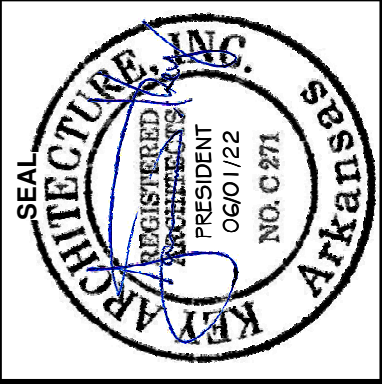
NEW OFFICE WAREHOUSE 5-BAY BLDG.
 2185 WORTH LANE
 SPRINGDALE, ARKANSAS

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

DATE 06/01/22	DRAWN BY ELP
PROJECT # 2169	CHECKED BY JTK

SHEET
A1.2
 ROOF PLAN & SCHEDULES

These Drawings and Specifications are the exclusive property of Key Architecture Inc. and are protected by Copyright. Use or reproduction is prohibited without written consent.



KEY ARCHITECTURE INC.
 P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
 PH: 479.444.6066 FAX: 479.444.1445

PERMIT SET

Revision Schedule	Description
Rev. #	Date

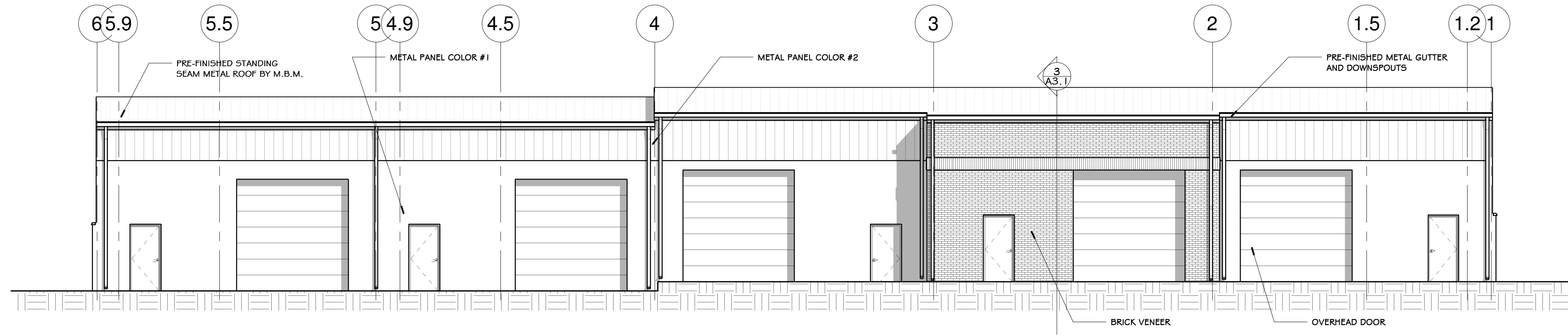
NEW OFFICE WAREHOUSE 5-BAY BLDG.
 2185 WORTH LANE
 SPRINGDALE, ARKANSAS

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

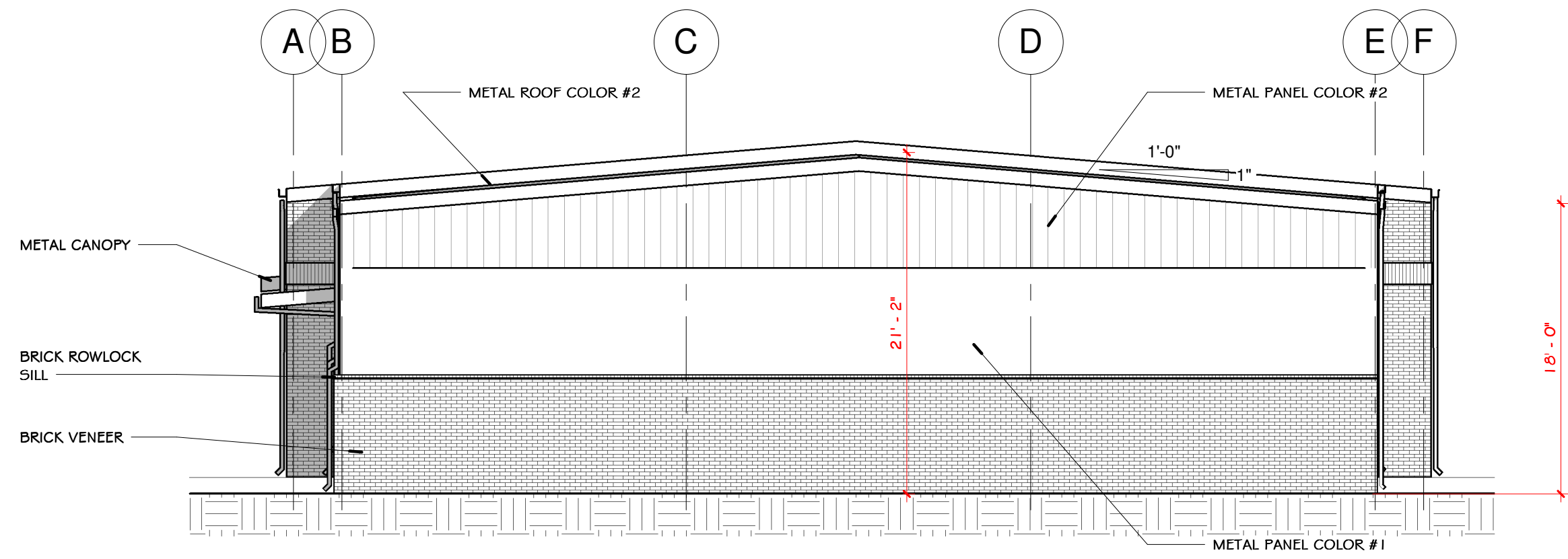
DATE	DRAWN BY
06/01/22	ELP
PROJECT #	CHECKED BY
2169	JTK

SHEET
A2.1
 ELEVATIONS

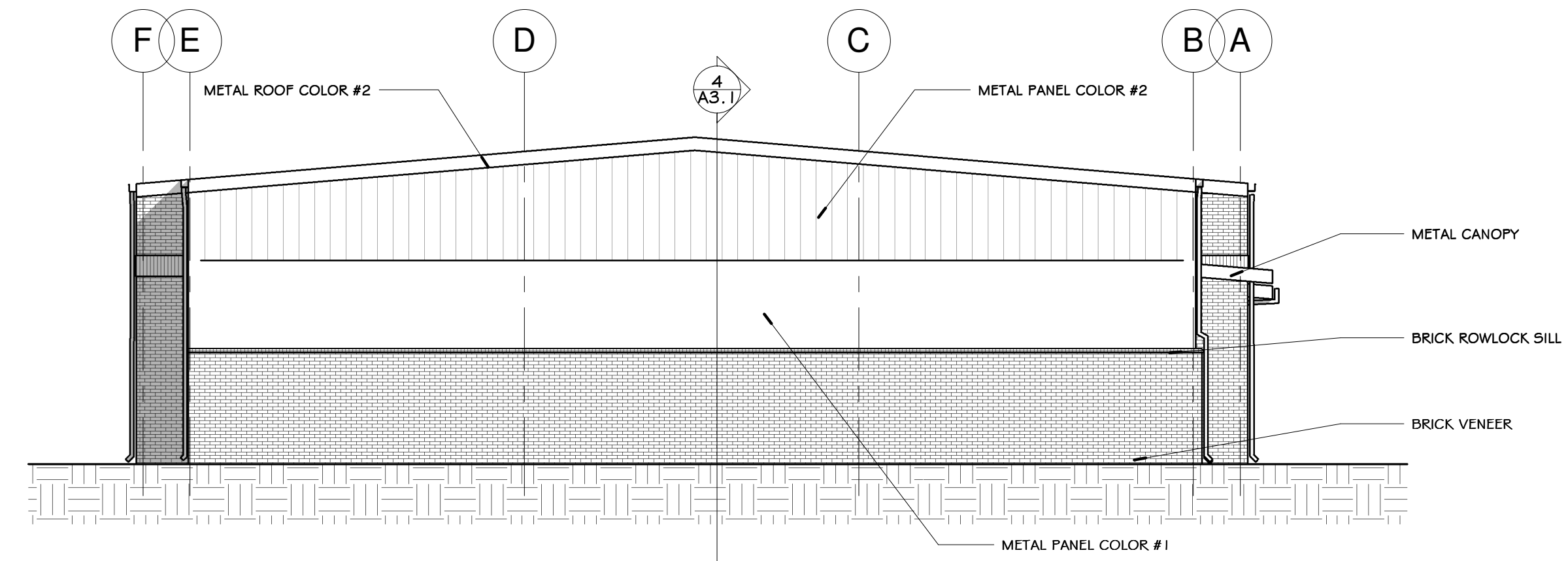
These Drawings and Specifications are the exclusive property of Key Architecture Inc. and are protected by Copyright. Use or reproduction is prohibited without written consent.



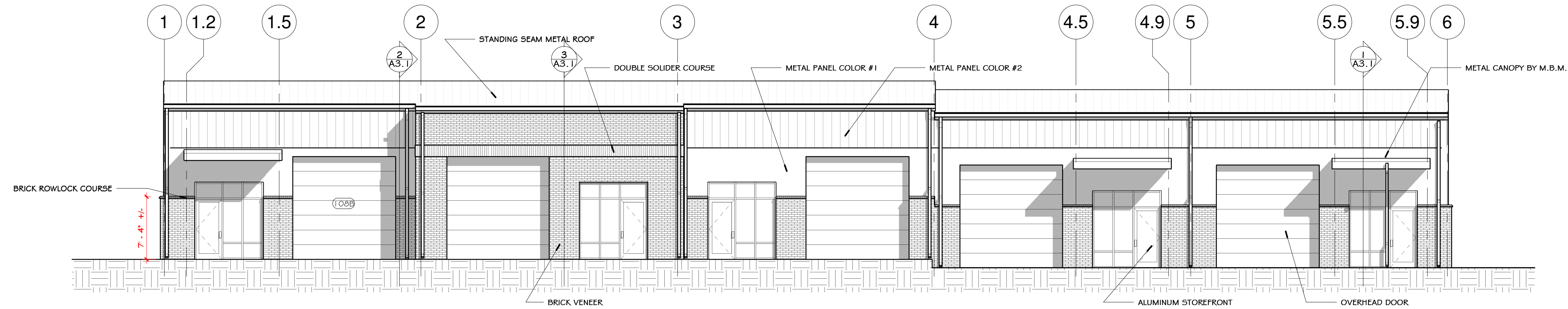
4 EAST ELEVATION
 SCALE = 1/8" = 1'-0"



3 SOUTH ELEVATION
 SCALE = 1/8" = 1'-0"

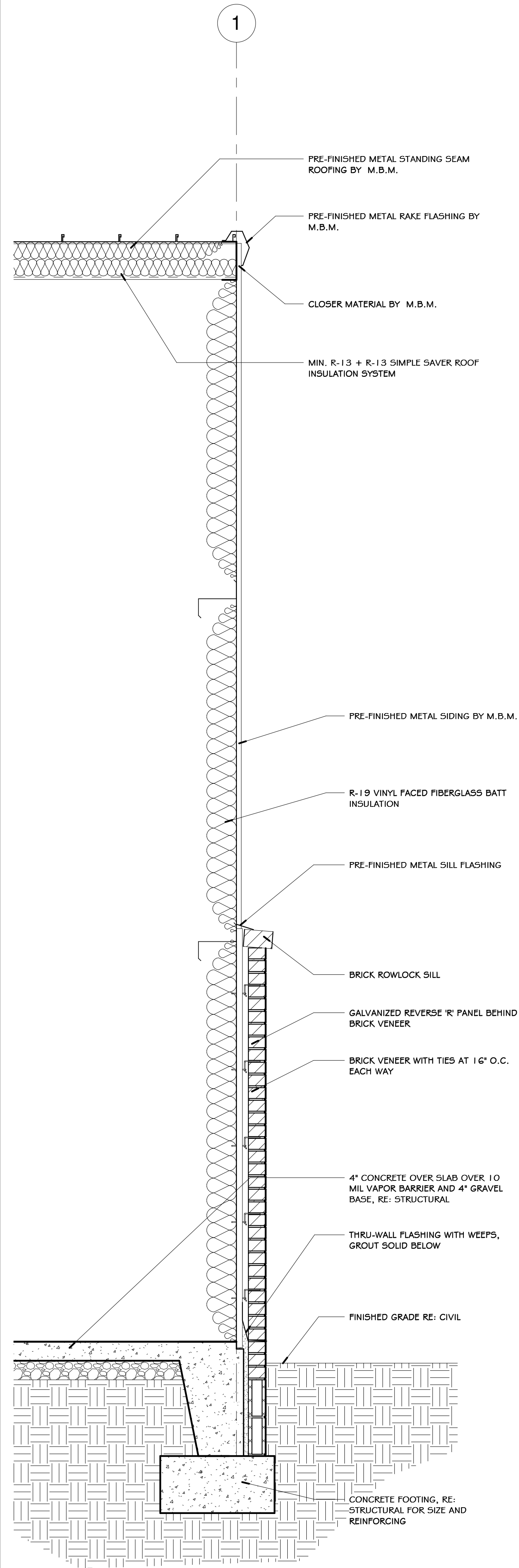


2 NORTH ELEVATION
 SCALE = 1/8" = 1'-0"

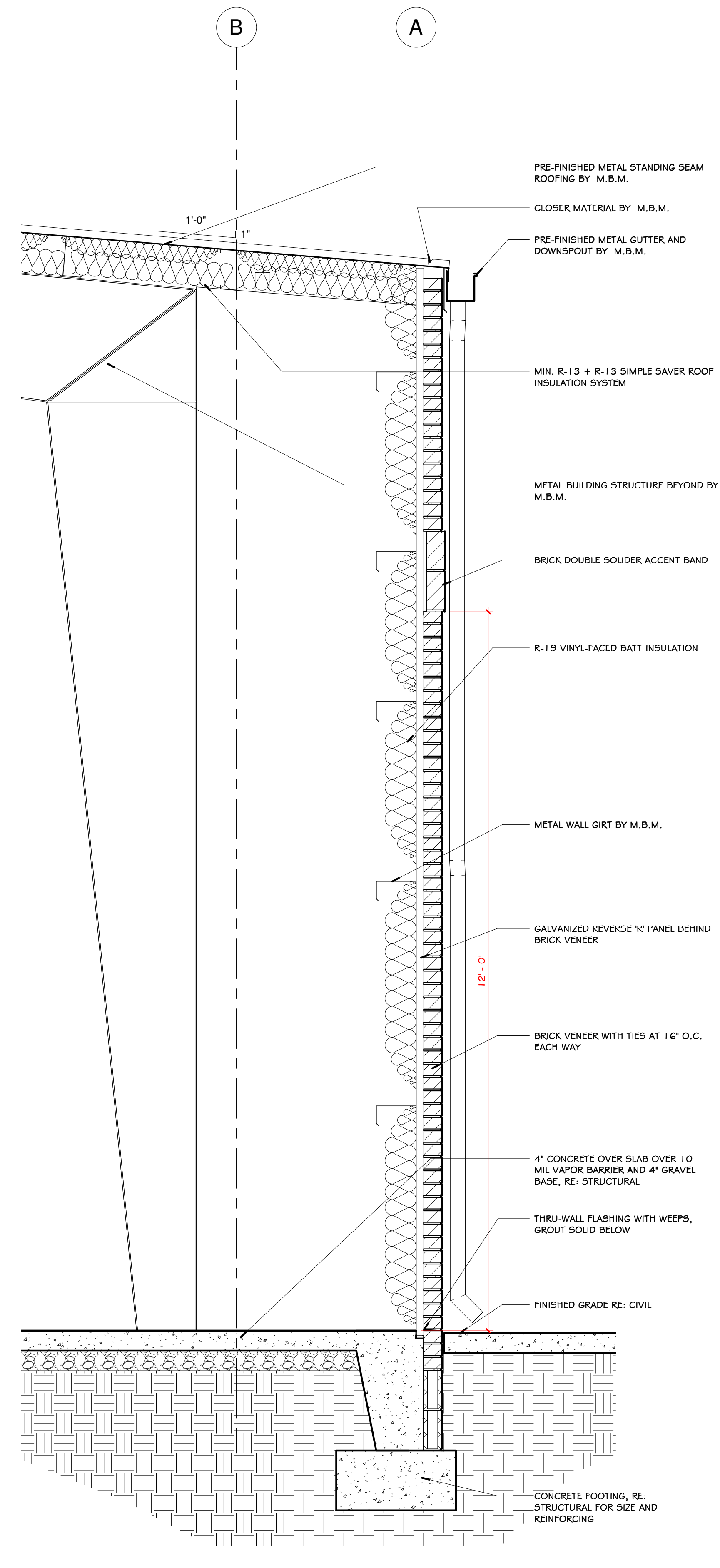


1 WEST ELEVATION
 SCALE = 1/8" = 1'-0"

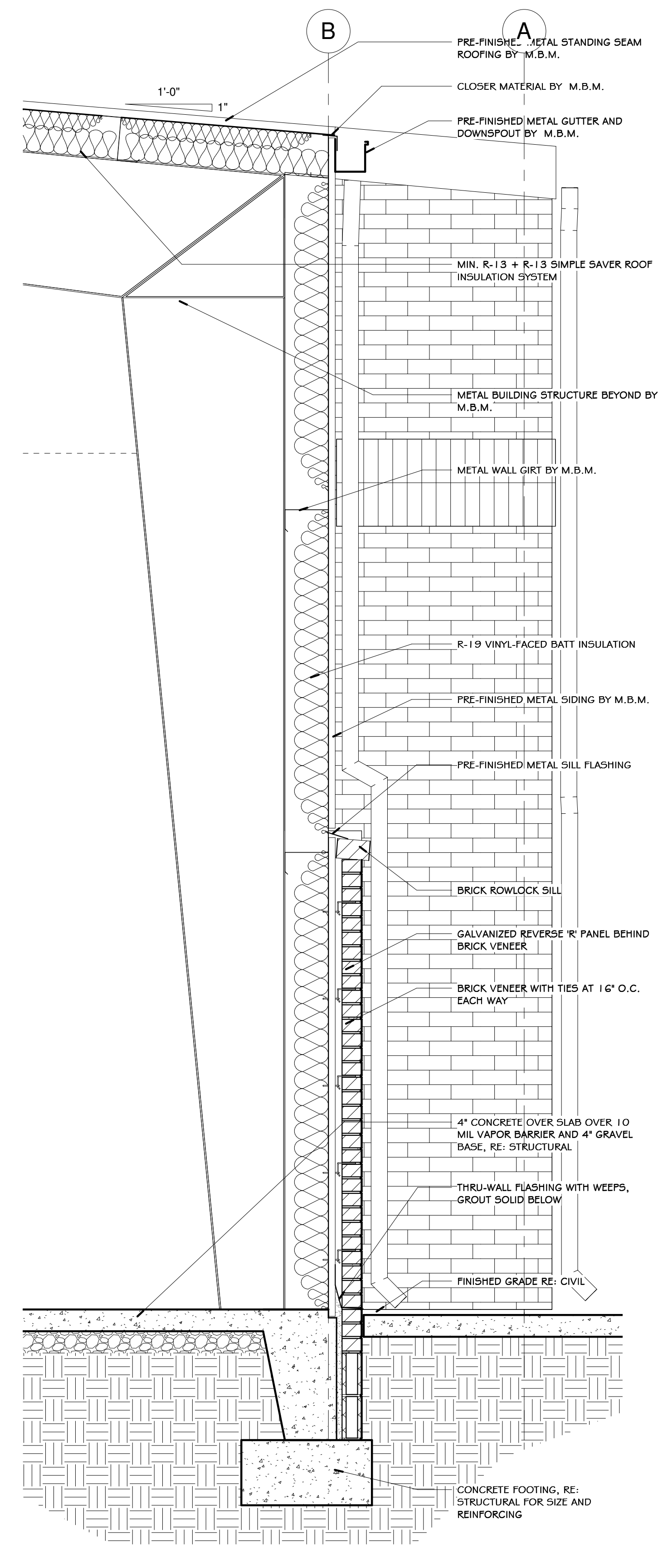
3/4" = 1'-0" 7/26/2022 9:48:02 AM S:\2169 MTNWA - New Warehouse Office\2169 MTNWA OFFICE-WAREHOUSE 2169 - 5 bay building.rvt



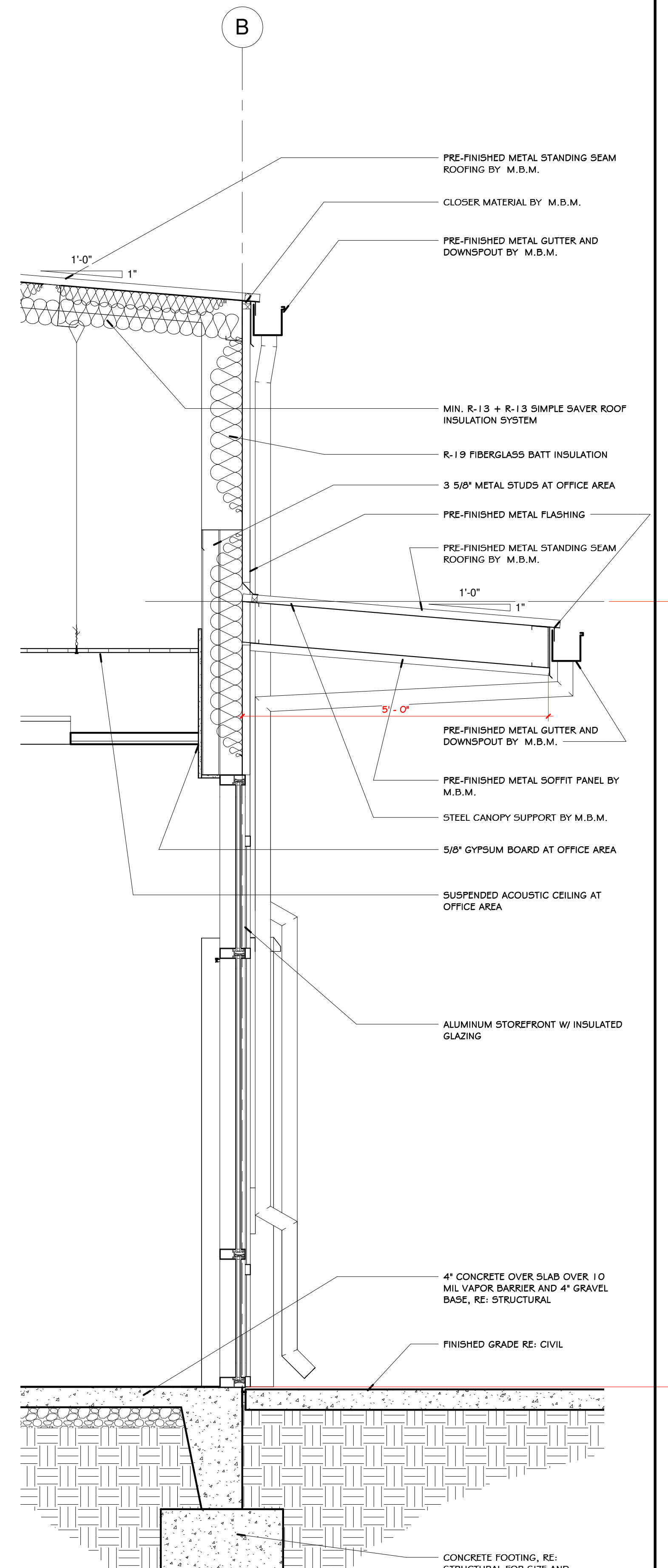
4 TYP. END WALL SECTION
SCALE = 3/4" = 1'-0"



3 SECTION AT PROTRUSION
SCALE = 3/4" = 1'-0"



2 SECTION AT WEST WALL
SCALE = 3/4" = 1'-0"



1 SECTION AT ENTRY
SCALE = 3/4" = 1'-0"



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

PERMIT SET

Revision Schedule	Description
Rev.#	Date

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2185 WORTH LANE
SPRINGDALE, ARKANSAS

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

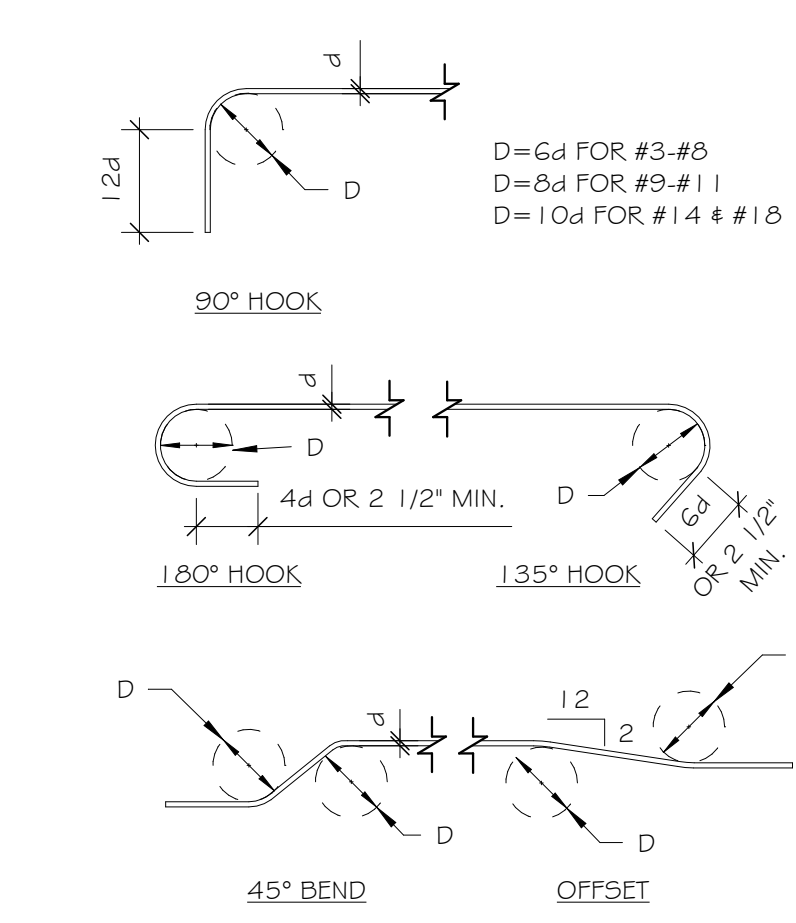
DATE	DRAWN BY
06/01/22	ELP
PROJECT #	CHECKED BY
2169	JTK

SHEET
A3.1
WALL SECTIONS

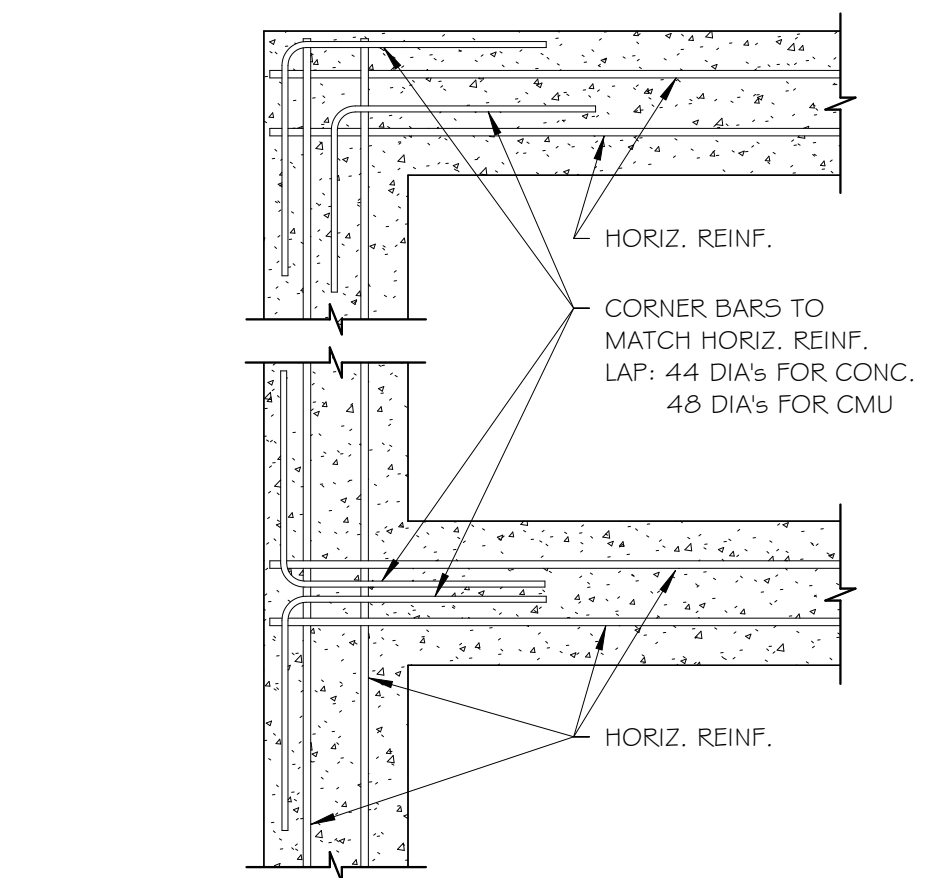
These Drawings and Specifications are the exclusive property of Key Architecture Inc. and are protected by Copyright. Use or reproduction is prohibited without written consent.

STRUCTURAL NOTES

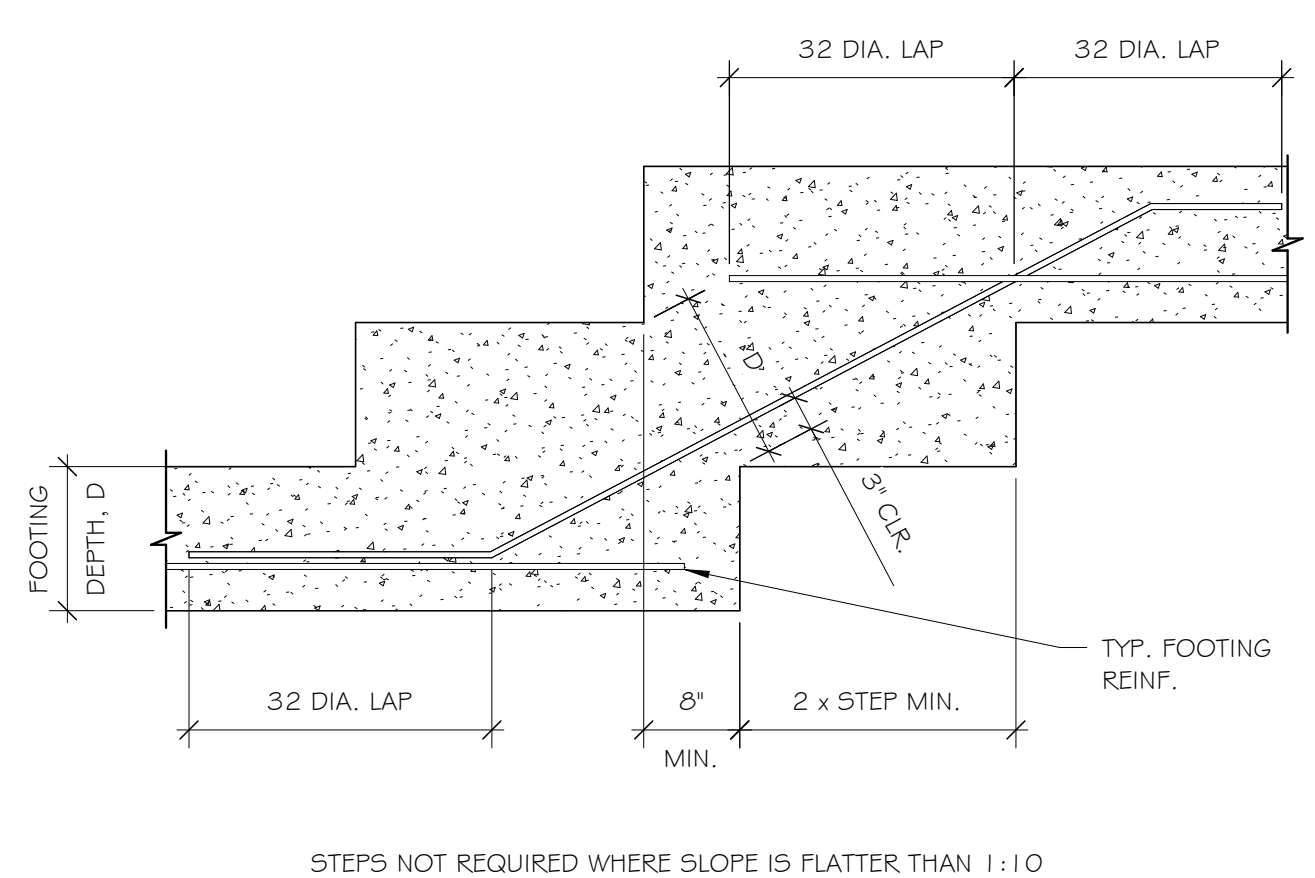
- 1. ALL ELEVATIONS ARE GIVEN WITH REFERENCE TO FINISH FLOOR DATUM 1'00'-0".
2. ALL STRUCTURAL SELECT FILL SHALL BE APPROVED MATERIAL PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER STANDARD PROCTOR TESTS (ASTM D-698).
3. FOOTINGS ARE TO BEAR ON FIRM RED, TAN AND GRAY LEAN CLAY, VERY STIFF TO HARD CHERTY CLAY WITH SAND OR STRUCTURAL SELECT FILL. ALL EXCAVATIONS SHALL BE CLEAN CUT AND SQUARE.
4. FOOTING ELEVATIONS NOTED ARE FOR BIDDING PURPOSES AND SHALL BE LOWERED AS NECESSARY TO OBTAIN THE SPECIFIED BEARING CAPACITY AND COVER.
5. THE FOUNDATION IS DESIGNED FOR A BEARING CAPACITY OF 2000 PSF FOR CONTINUOUS FOOTINGS AND 2000 PSF FOR ISOLATED COLUMN FOOTINGS, PROVIDE 24" MIN. FROM FINISH GRADE OR PAVING TO BOTTOM OF FOOTING AT EXTERIOR CONDITIONS. REF. GEOTECHNICAL REPORT DATED MAY 17, 2022 BY MTA ENGINEERS, INC.
6. CONCRETE SHALL HAVE A 28 DAY STRENGTH. MAXIMUM SLUMP AND MAXIMUM AGGREGATE SIZE AS FOLLOWS:
FOOTINGS AND STEMWALLS: 3000 PSI - 6" SLUMP - 1 1/2" AGG.
INTERIOR SLAB: 3000 PSI - 4" SLUMP - 1" AGG.
EXTERIOR SLAB: 3500 PSI - 4" SLUMP - 1" AGG.
ALL CONCRETE EXPOSED TO FREEZE/THAW SHALL HAVE APPROX. 5% AIR ENTRAINMENT. REINF. STEEL SHALL CONFORM TO GRADE 60 ASTM A-615. LAP ALL CONCRETE REINFORCING 44 BAR DIAMETERS, 12" MINIMUM, UNLESS NOTED OTHERWISE.
7. VERIFY ALL DIMENSIONS, SLOPES, DEPRESSIONS, EMBEDMENTS ETC. BEFORE PLACING CONCRETE.
8. LAP ALL UNDER-SLAB VAPOR BARRIER SHEETS A MINIMUM OF 6" AT ALL SPLICES.
9. PROVIDE SLAB CONTROL JOINTS (CJ) WHERE INDICATED ON PLAN. C.J.'s SHALL BE APPROX. 1/4 OF THE SLAB DEPTH AND SHALL BE ONE OF THE FOLLOWING:
A. SAWCUT AS SOON AS POSSIBLE WITHIN 12 HOURS OF POUR.
B. ZIP CAP TYPE JOINT FORMER.
C. TOOLED JOINTS FOR EXTERIOR SLAB.
CONST. JOINTS W/ 3/8"x4 1/2" PNA DIAMOND DOWELS AT 18" O.C. MAY BE SUBSTITUTED FOR ANY CONTROL JOINT AND SHALL BE USED WHERE INDICATED ON THE PLAN.
10. P.E.M.B. MANUF. SHALL BE RESPONSIBLE FOR PROVIDING SUPPORT (LATERAL AND GRAVITY) FOR ALL VENEER.
11. DESIGN CRITERIA
CODE: 2012 ARKANSAS FIRE PREVENTION CODE
ROOF LIVE LOAD: 20 PSF
ROOF DEAD LOAD: PER P.E.M.B.
ROOF COLLATERAL LOAD: PER P.E.M.B.
SNOW LOAD
GROUND SNOW LOAD, Pg: 20 PSF
FLAT ROOF SNOW LOAD, Ft: 14 PSF
DESIGN ROOF SNOW LOAD: PER P.E.M.B.
SNOW EXPOSURE FACTOR, Ce: 1.0
SNOW LOAD IMPORTANCE FACTOR, Is: 1.0
THERMAL FACTOR, Ct: 1.0
WIND LOAD
BASIC WIND SPEED Vult: 115 MPH
BASIC WIND SPEED Vasd: 90 MPH
WIND IMPORTANCE FACTOR, I: 1.0
RISK CATEGORY: II
WIND EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFF.: +0.18, -0.18
COMPONENTS & CLADDING (ASD): PER P.E.M.B.
SEISMIC LOAD
SEISMIC RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR: 1.0
MAPPED SPECTRAL RESPONSE COEFF.: Ss = 0.170, S1 = 0.094
SPECTRAL RESPONSE COEFF.: Sps = 0.136, Sp1 = 0.106
SITE CLASS: C
SEISMIC DESIGN CATEGORY: B
THIS FOUNDATION DESIGN COMPLIES WITH THE ARKANSAS SEISMIC STANDARDS.



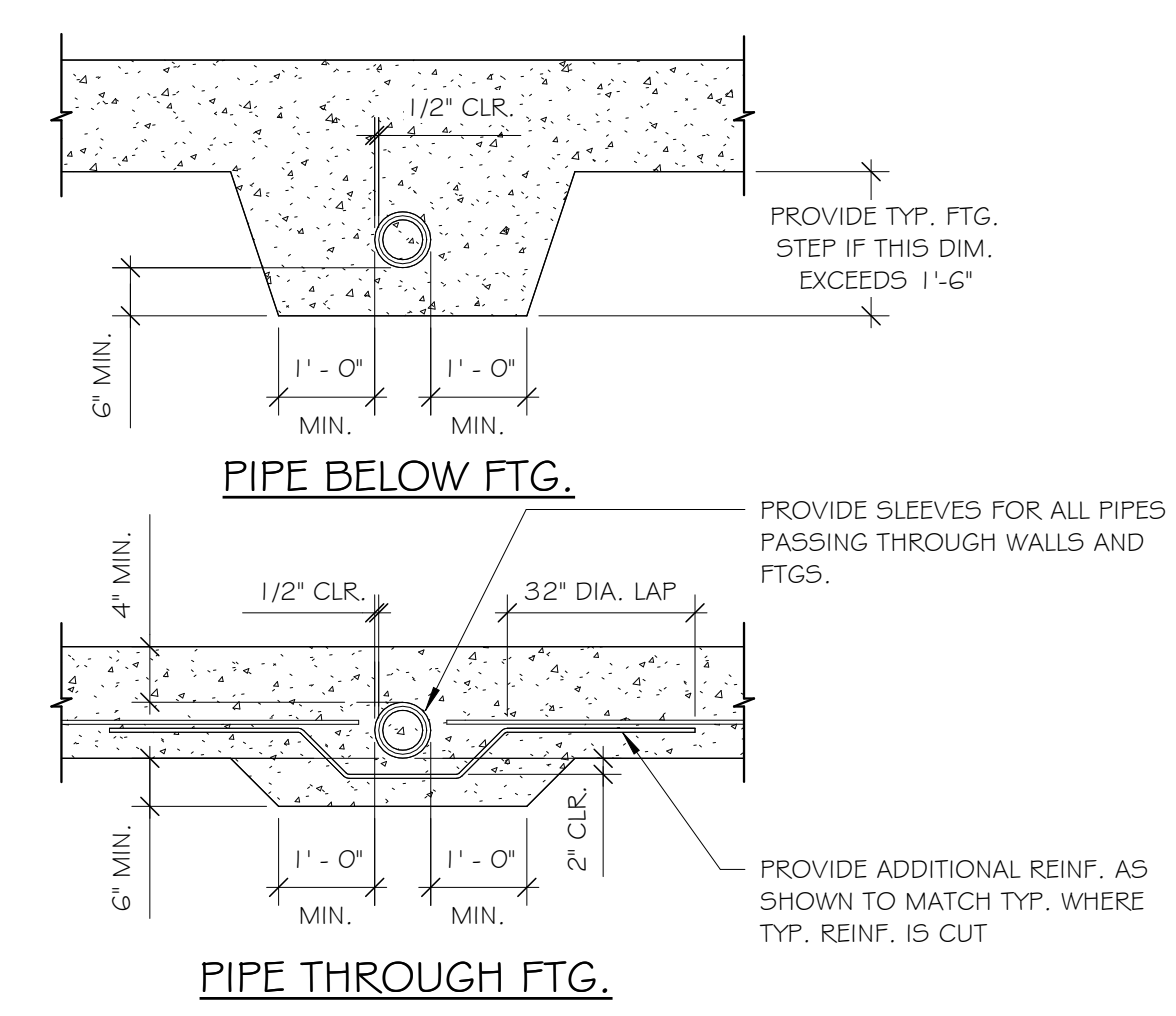
1 TYP. RE-BAR BEND DETAIL
3/4" = 1'-0"



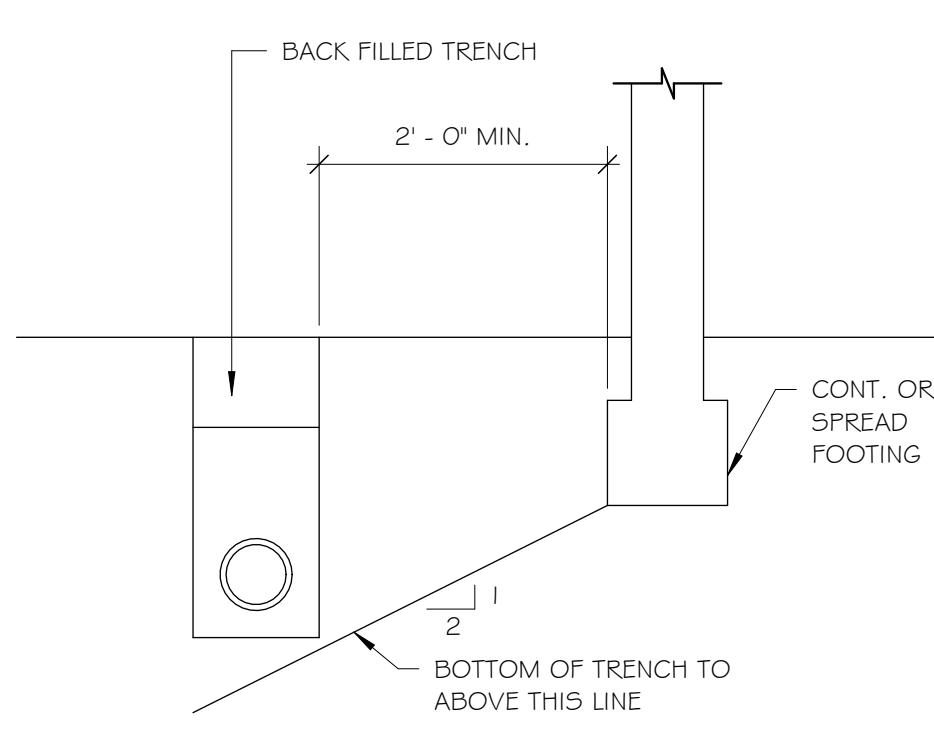
2 TYP. CORNER BARS FOR WALLS AND FTGS.
3/4" = 1'-0"



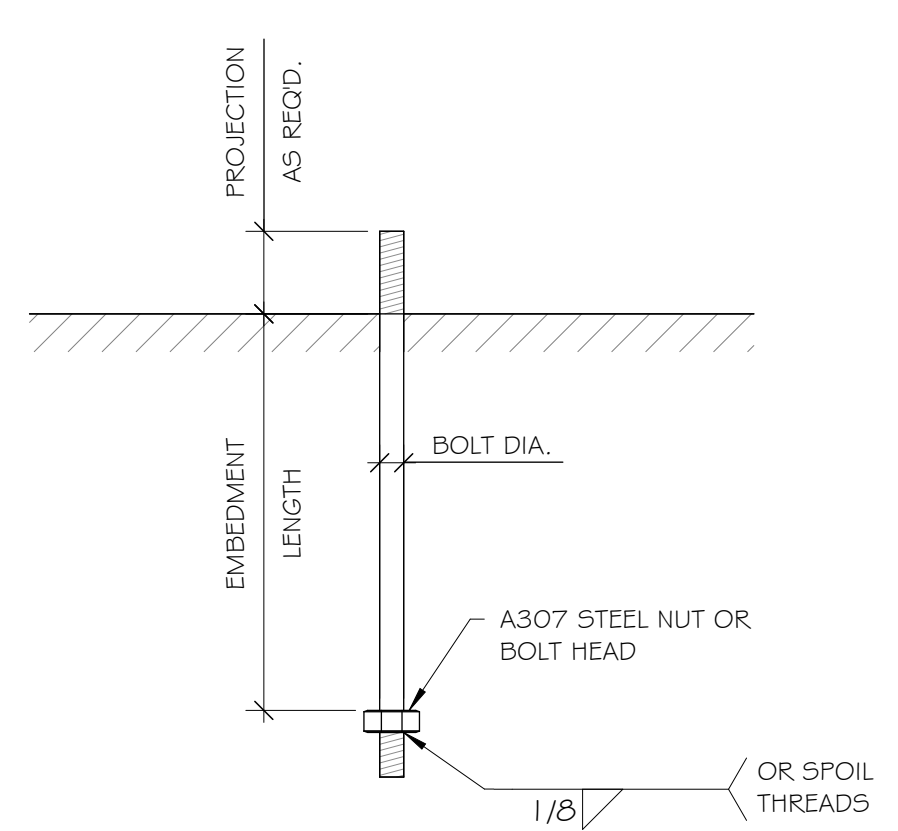
3 TYPICAL STEPPED FOOTING
3/4" = 1'-0"



4 PIPE PERPENDICULAR TO FTG.
1/2" = 1'-0"



5 TRENCHES PARALLEL TO FTG.
3/4" = 1'-0"



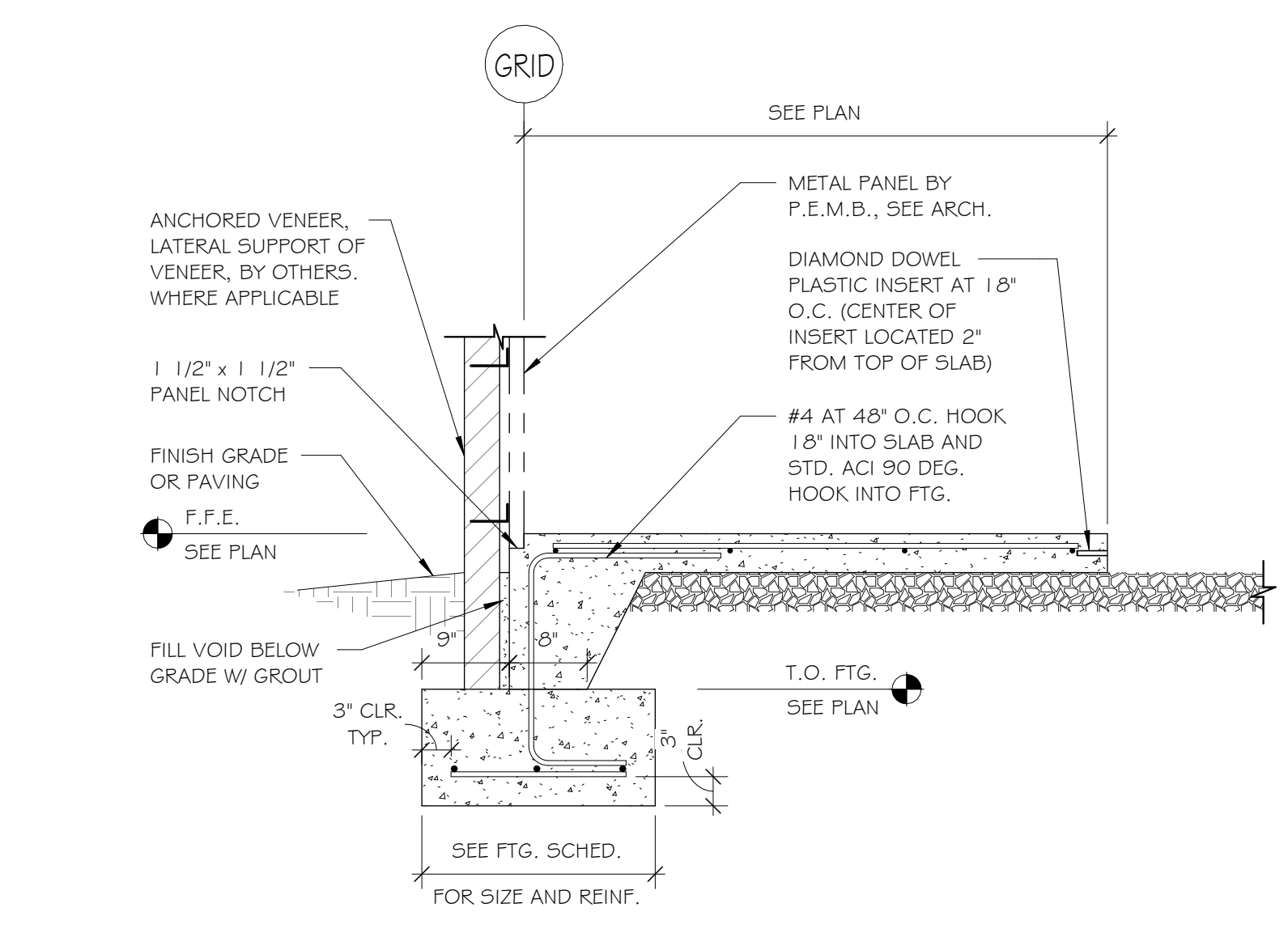
6 TYPICAL ANCHOR BOLT
3/4" = 1'-0"

Table 7: SPECIAL INSPECTIONS. Includes a table with columns for inspection type and requirements, and a note that JLA Engineers Inc. does not perform special inspections.

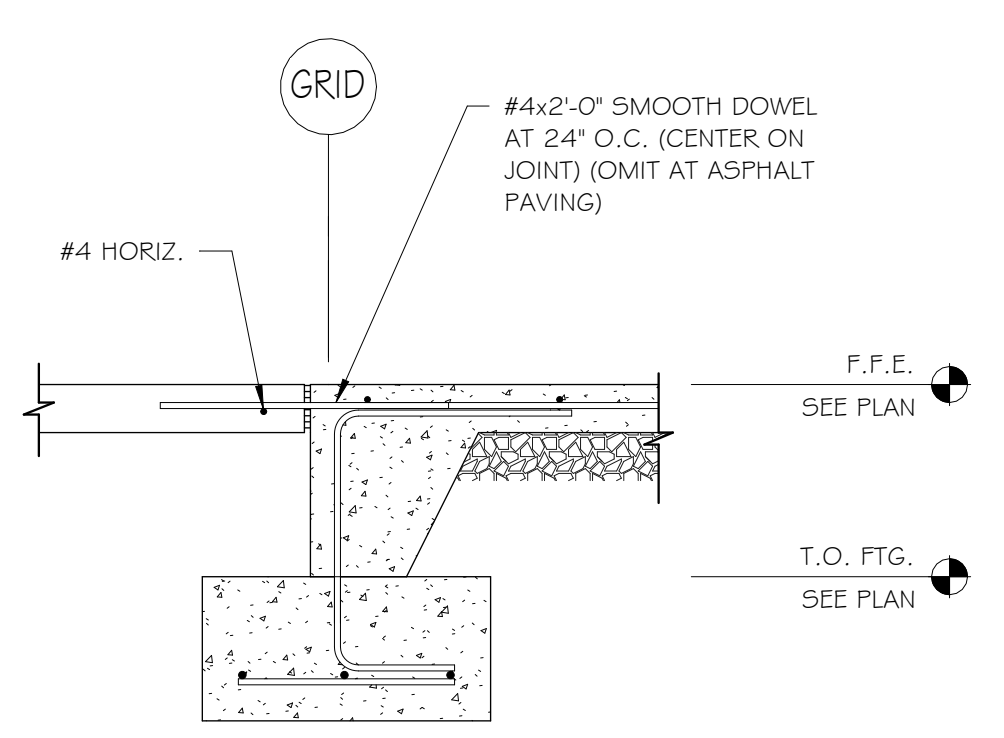
7 SPECIAL INSPECTIONS
1/8" = 1'-0"

Table 8: PEMB DEFLECTION & DRIFT LIMITS. Includes a table with columns for roof supported ceiling, roof not supporting ceiling, and horizontal drift, with corresponding load and drift limits.

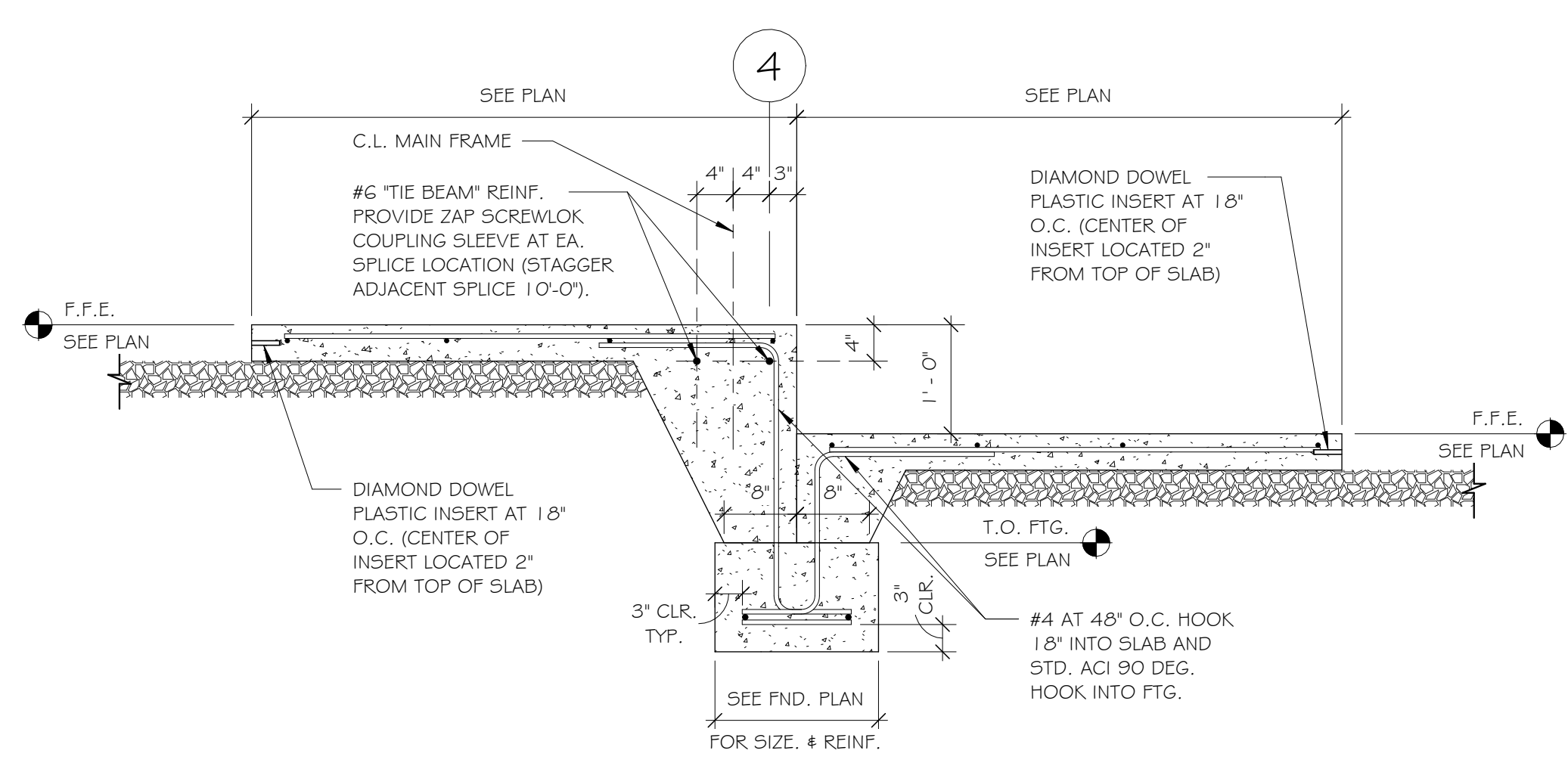
8 PEMB DEFLECTION & DRIFT LIMITS
3/4" = 1'-0"



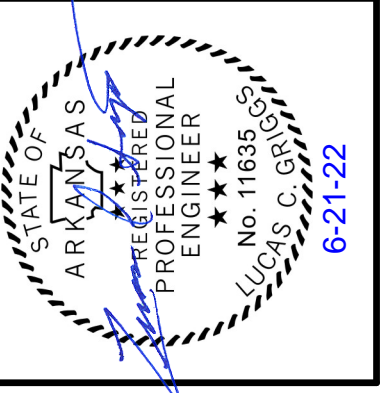
9 TYP. SLAB AT LEAVE-OUT
3/4" = 1'-0"



10 TYP. AT EXT. OPNG.
3/4" = 1'-0"



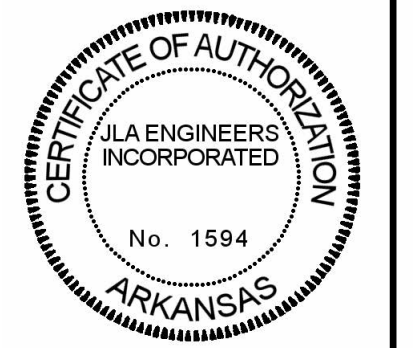
11 TYPICAL SLAB STEP
3/4" = 1'-0"



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

Table with columns: Revision Schedule, Date, Description.

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2185 WORTH LANE
SPRINGDALE, ARKANSAS
MTNWA INVESTMENTS, LLC
1457 E. ROBINSON AVE.
SPRINGDALE, AR 72764



JLA Engineers Incorporated
STRUCTURAL CONSULTANTS
213 WEST MONROE AVE., SUITE 91
LOWELL, ARKANSAS 72745
TELEPHONE (479) 770-6650
JLA JOB #3143

Table with columns: DATE, DRAWN BY, PROJECT #, CHECKED BY.

SHEET
SO
STRUCT. NOTES AND DTLS.



KEY ARCHITECTURE INC.
 P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
 PH: 479.444.6066 FAX: 479.444.1445

Revision Schedule	Description
Rev. #	Date

NEW OFFICE WAREHOUSE 5-BAY BLDG.
 2185 WORTH LANE
 SPRINGDALE, ARKANSAS
 MTNWA INVESTMENTS, LLC
 1457 E. ROBINSON AVE.
 SPRINGDALE, AR 72764

DATE	DRAWN BY
06/01/22	LCG
PROJECT #	CHECKED BY
2169	LCG

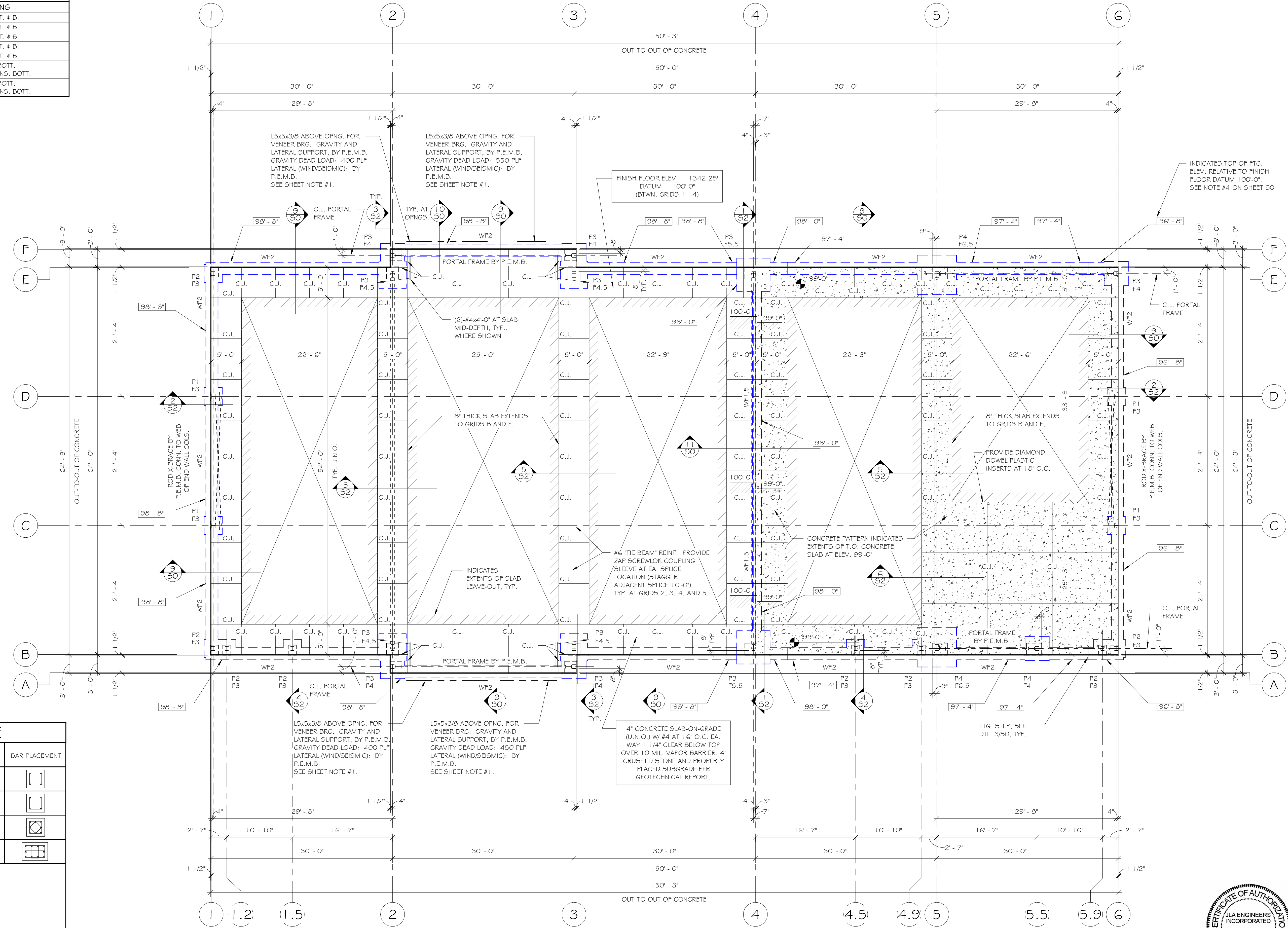
SHEET
S1
 FOUNDATION PLAN

These Drawings and Specifications are the exclusive property of Key Architecture Inc. and are protected by Copyright. Use or reproduction is prohibited without written consent.

MARK	SIZE	REINFORCING
F3	3'-0" SQ. x 12" T.	(3)-#5 EA. WAY T. & B.
F4	4'-0" SQ. x 16" T.	(5)-#5 EA. WAY T. & B.
F4.5	4'-6" SQ. x 16" T.	(6)-#5 EA. WAY T. & B.
F5.5	5'-6" SQ. x 16" T.	(7)-#5 EA. WAY T. & B.
F6.5	6'-6" SQ. x 24" T.	(8)-#6 EA. WAY T. & B.
WF1.5	1'-6" x CONT. x 12" T.	(2)-#5 CONT. BOTT. #4 AT 48" O.C. TRANS. BOTT.
WF2	2'-0" x CONT. x 12" T.	(3)-#5 CONT. BOTT. #4 AT 48" O.C. TRANS. BOTT.

MARK	SIZE (WIDTH x LENGTH)	VERT. REINF.	TIES	BAR PLACEMENT
P1	18" x 18"	(4)-#5	#3 AT 10" O.C.	
P2	16" x 20"	(4)-#5	#3 AT 10" O.C.	
P3	24" x 24"	(8)-#5	#3 AT 10" O.C. (TWO SETS)	
P4	30" x 24"	(10)-#5	#3 AT 10" O.C. (THREE SETS)	

P.E.M.B. COLUMN ORIENTATION (NOT PORTAL FRAME)



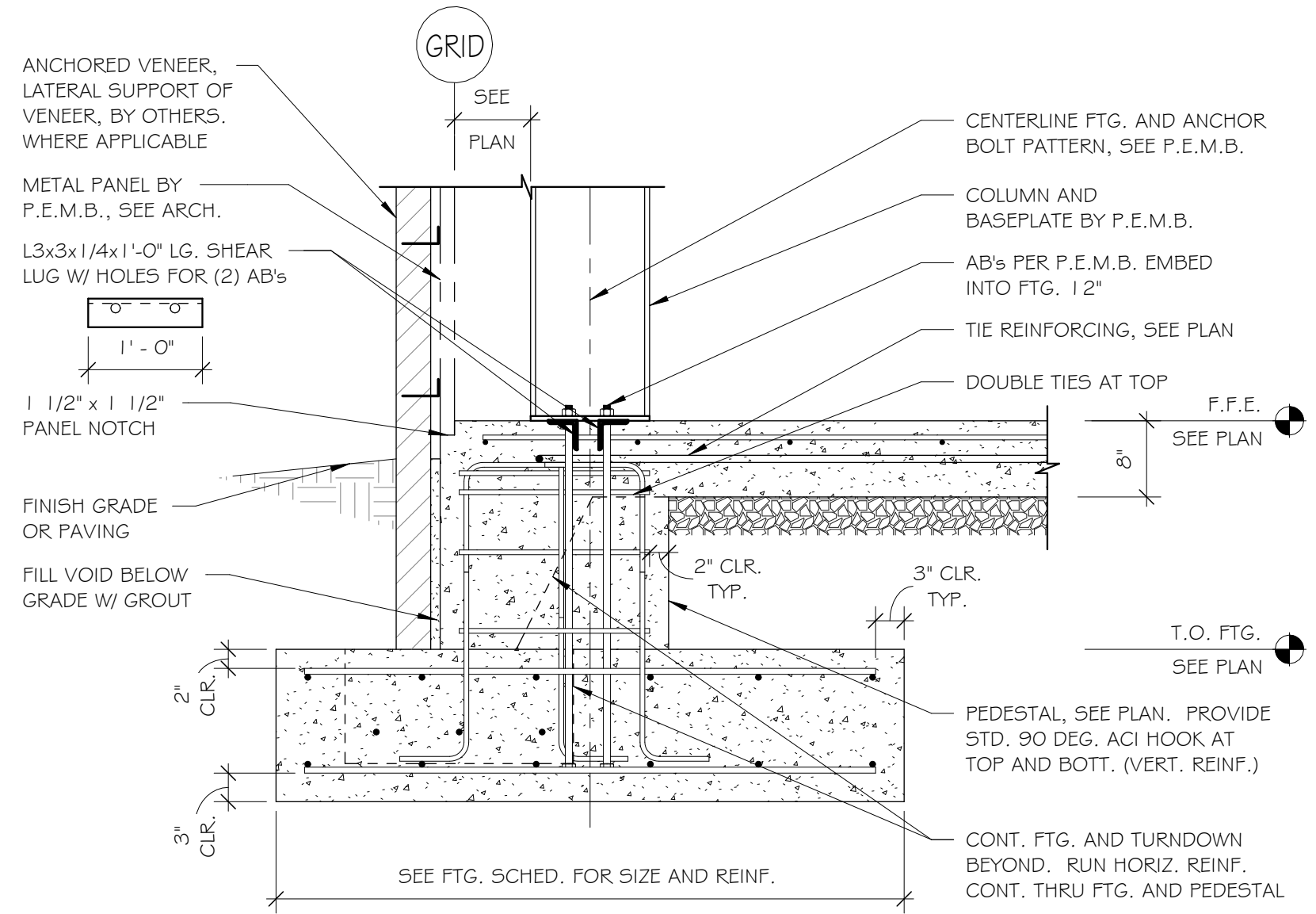
SHEET NOTES:
 1. SUPPORT MEMBER OVER OPENINGS WITH VENEER SHALL BE BY P.E.M.B. THE L5 BEARING MEMBER NOTED IS NOT DESIGNED FOR GRAVITY/LATERAL SUPPORT AND MUST BE CONNECTED TO THE MAIN SUPPORT MEMBER AT A MIN. OF 12" O.C. (CONNECTION AND FASTENER DESIGN BY P.E.M.B.). GRAVITY LOAD NOTED IS FOR DEAD LOAD OF THE VENEER ONLY. LATERAL LOADS SHALL BE DETERMINED BY P.E.M.B. TYPICAL FOUR LOCATIONS NOTED.
 2. FOOTINGS ARE TO BE CENTERED ON MAIN FRAME COLUMN ANCHOR BOLT LAYOUT, U.N.O.
 3. NO PANEL NOTCH AT OPENINGS, TYPICAL.
 4. ALL ANCHOR BOLTS SHALL BE EMBED INTO THE FOOTING PER LENGTHS NOTED IN DETAILS AND AS FOLLOWS: MAIN FRAME COLUMN ANCHOR BOLTS = 12"; END WALL AND SOLDIER COLUMN ANCHOR BOLTS = 9"; PORTAL FRAME ANCHOR BOLTS = 12".

FOUNDATION PLAN
 1/8" = 1'-0"

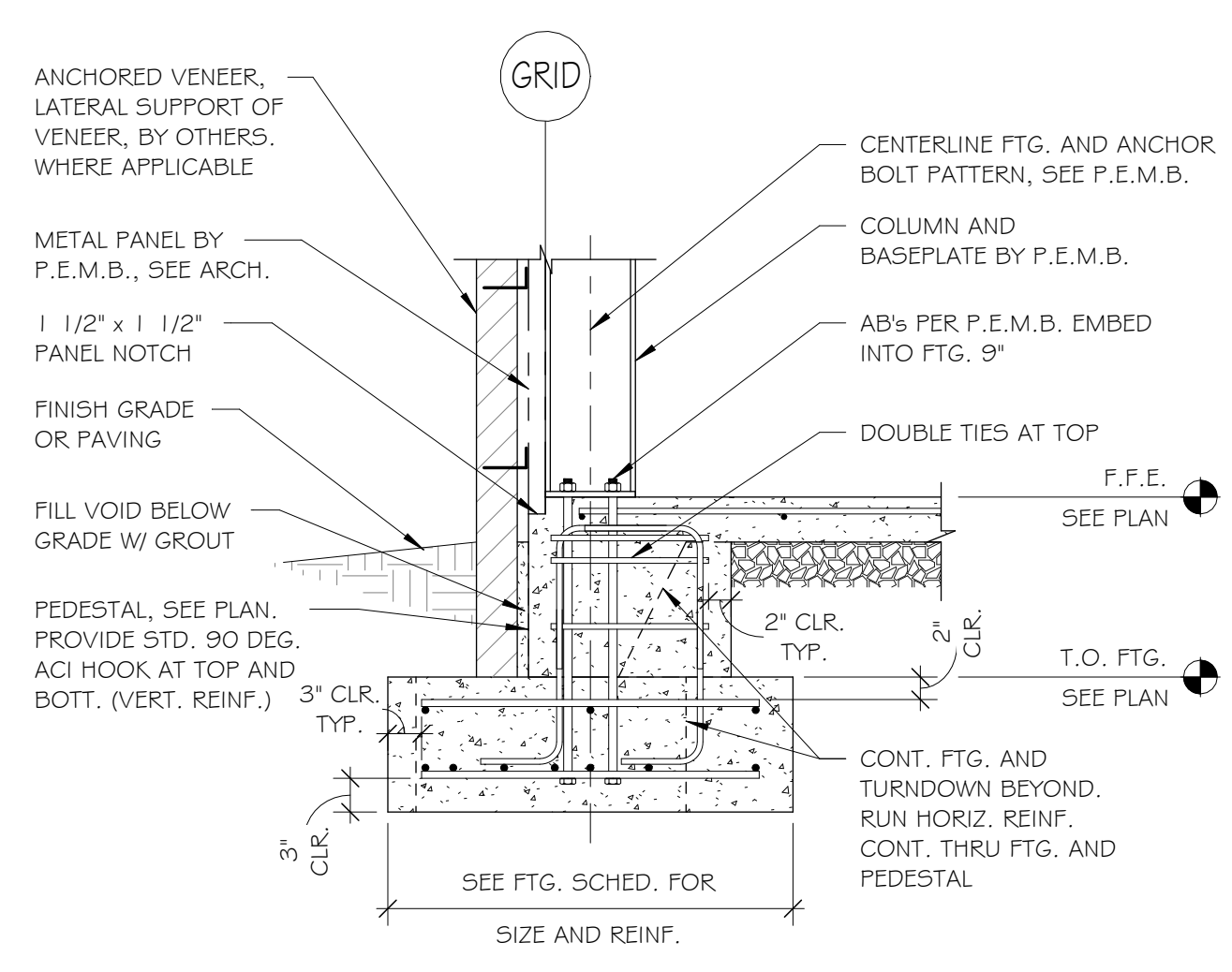


JLA Engineers Incorporated
 STRUCTURAL CONSULTANTS
 213 WEST MONROE AVE., SUITE 9
 LOWELL, ARKANSAS 72745
 TELEPHONE (479) 770-6650
 JLA JOB #3143

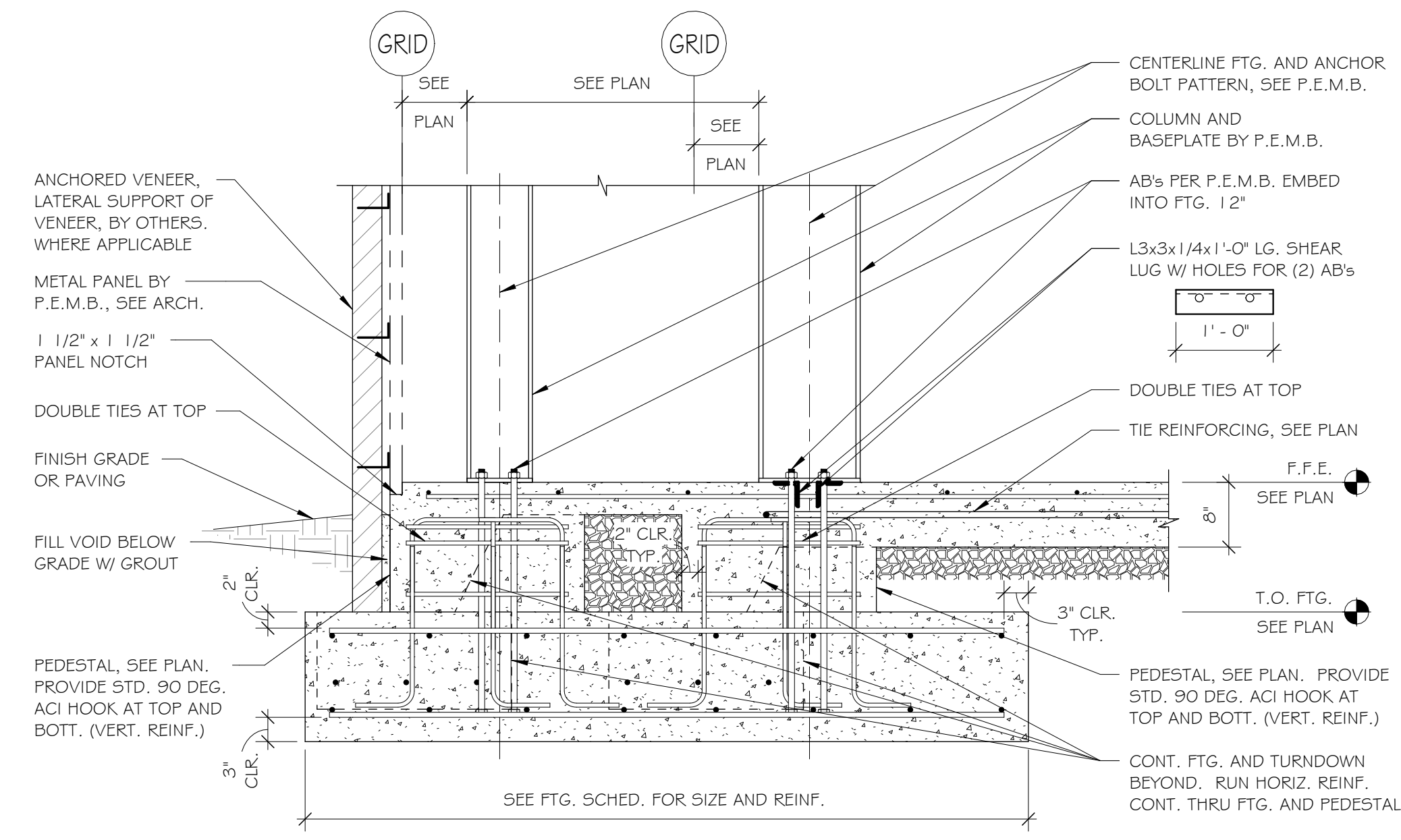
As indicated 6/21/2022 11:10:59 AM P:\Jobs 3100-3199\3143 Worth Land Development\STRUCT\3143 Worth Land Dev MTNWA FEMBRV2022.rvt



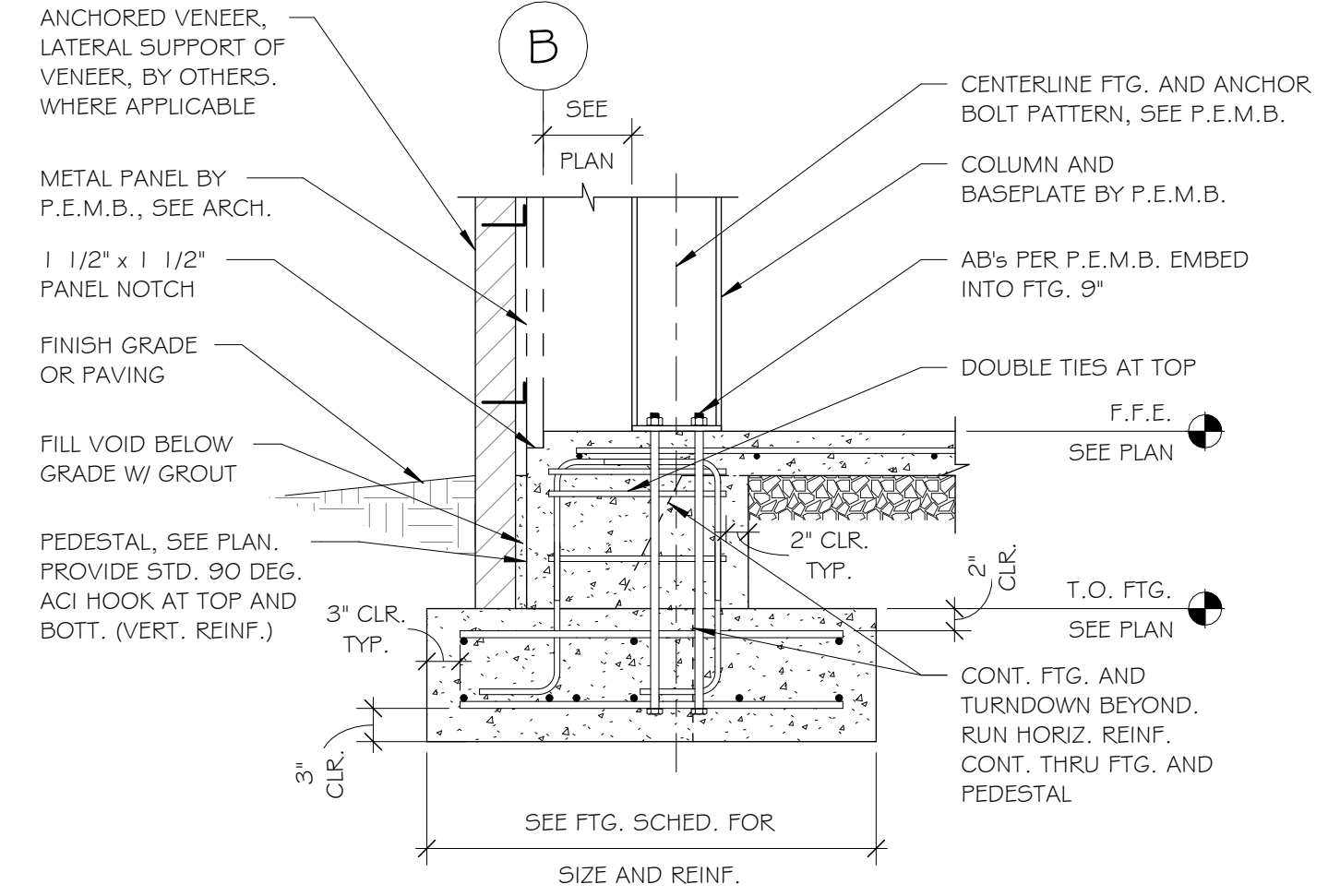
1 TYP. MAIN FRAME COL./FTG.
3/4" = 1'-0"



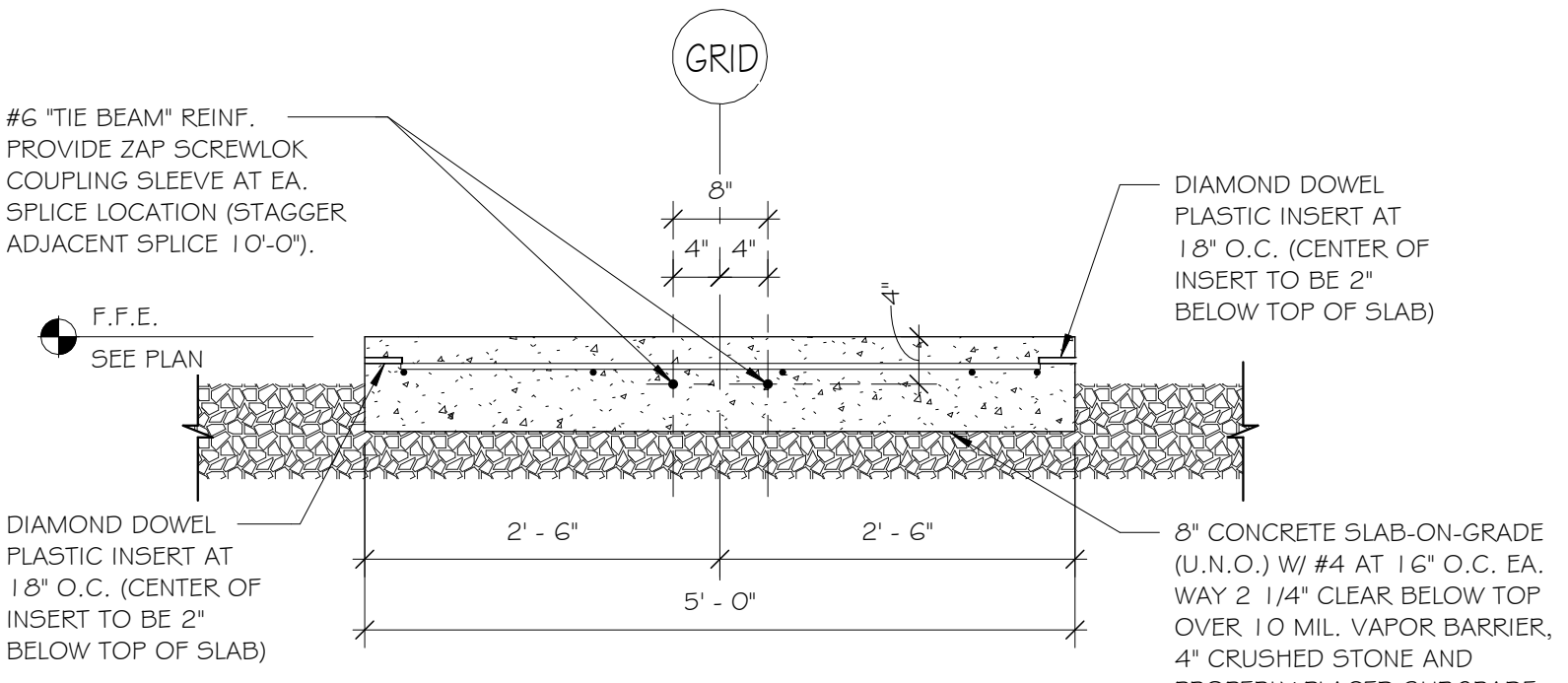
2 TYP. END WALL COL./FTG.
3/4" = 1'-0"



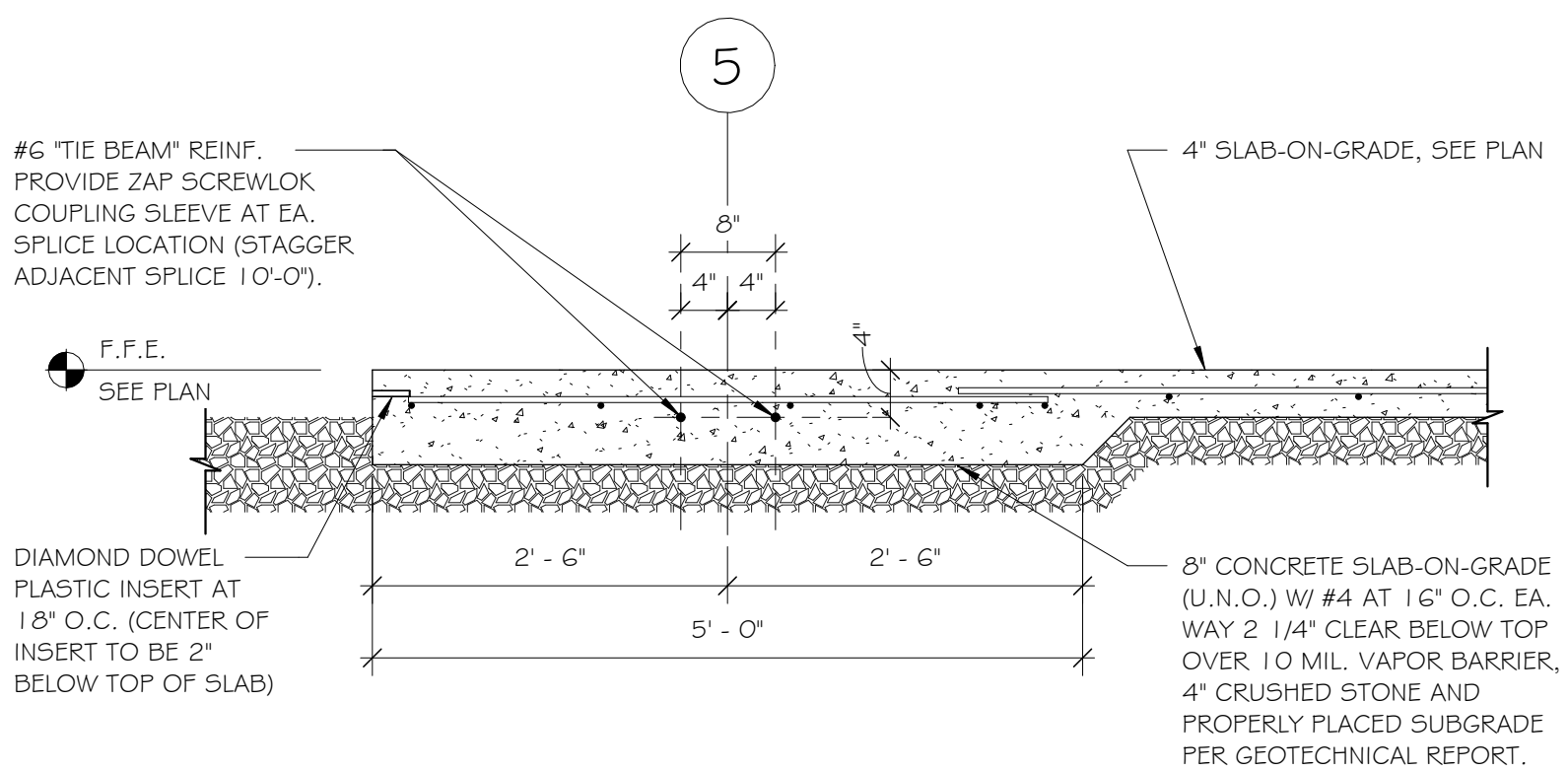
3 TYP. COL./FTG. AT BUMPOUT
3/4" = 1'-0"



4 TYP. SOLDIER COL./FTG.
3/4" = 1'-0"



5 TYPICAL "TIE REINF." # SLAB
3/4" = 1'-0"



6 THICKEND SLAB AT TIE-REINF.
3/4" = 1'-0"

SCHEDULE OF SPECIAL INSPECTIONS (STRUCTURAL)

THIS SCHEDULE OF SPECIAL INSPECTION SERVICES (STRUCTURAL) HAS BEEN PREPARED BY JLA ENGINEERS INC. (STRUCTURAL ENGINEER OF RECORD) AND SHALL 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.

SPECIAL 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 INSPECTIONS CONDUCTED BY THE BUILDING OFFICIAL OR AUTHORITY HAVING JURISDICTION AND STRUCTURAL OBSERVATION BY THE DESIGN PROFESSIONAL.

SPECIAL 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 PREPARED 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	SERVICE	REQD.	EXTENT
1704.2.5 INSPECTION OF FABRICATORS			
VERIFY FABRICATION/QUALITY CONTROL PROCEDURES.	IN-PLANT REVIEW (3)	YES	PERIODIC
1705.6 SOILS			
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	YES	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	YES	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	FIELD INSPECTION	YES	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	FIELD INSPECTION	YES	CONTINUOUS
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.	FIELD INSPECTION	YES	PERIODIC

NOTES:

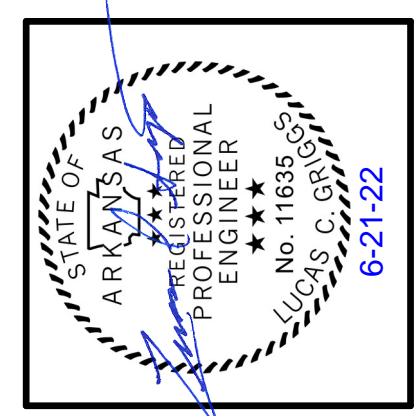
- THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL.
- 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 SCHEDULE OF SPECIAL INSPECTION SERVICES (STRUCTURAL) FOR THE FOUNDATION ONLY. ALL OTHER SPECIAL INSPECTION REQUIREMENTS SHALL BE PROVIDED BY OTHERS.

JLA ENGINEERS INC. DOES NOT PERFORM SPECIAL INSPECTIONS



JLA Engineers Incorporated
STRUCTURAL CONSULTANTS
213 WEST MONROE AVE., SUITE 6
LOWELL, ARKANSAS 72745
TELEPHONE (479) 770-6650
JLA JOB #3143



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

Revision Schedule	Description
Rev. #	Date

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2185 WORTH LANE
SPRINGDALE, ARKANSAS
MTNWA INVESTMENTS, LLC
1457 E. ROBINSON AVE.
SPRINGDALE, AR 72764

DATE: 06/01/22
PROJECT #: 2169
DRAWN BY: LCG
CHECKED BY: LCG

SHEET
S2
FOUNDATION DETAILS

These Drawings and Specifications are the exclusive property of Key Architecture Inc. and are protected by Copyright. Use or reproduction is prohibited without written consent.

CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER MODEL	NOMINAL TONS	NET TOTAL CAPACITY (MBH)	NET SENSIBLE CAPACITY (MBH)	COMPRESSOR QUANTITY	VOLTAGE	MCA MOC	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 MOC	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-12B	1/115/60 .0125 1.0	750 79 0.125	A,B,D 1

ACCESSORIES:

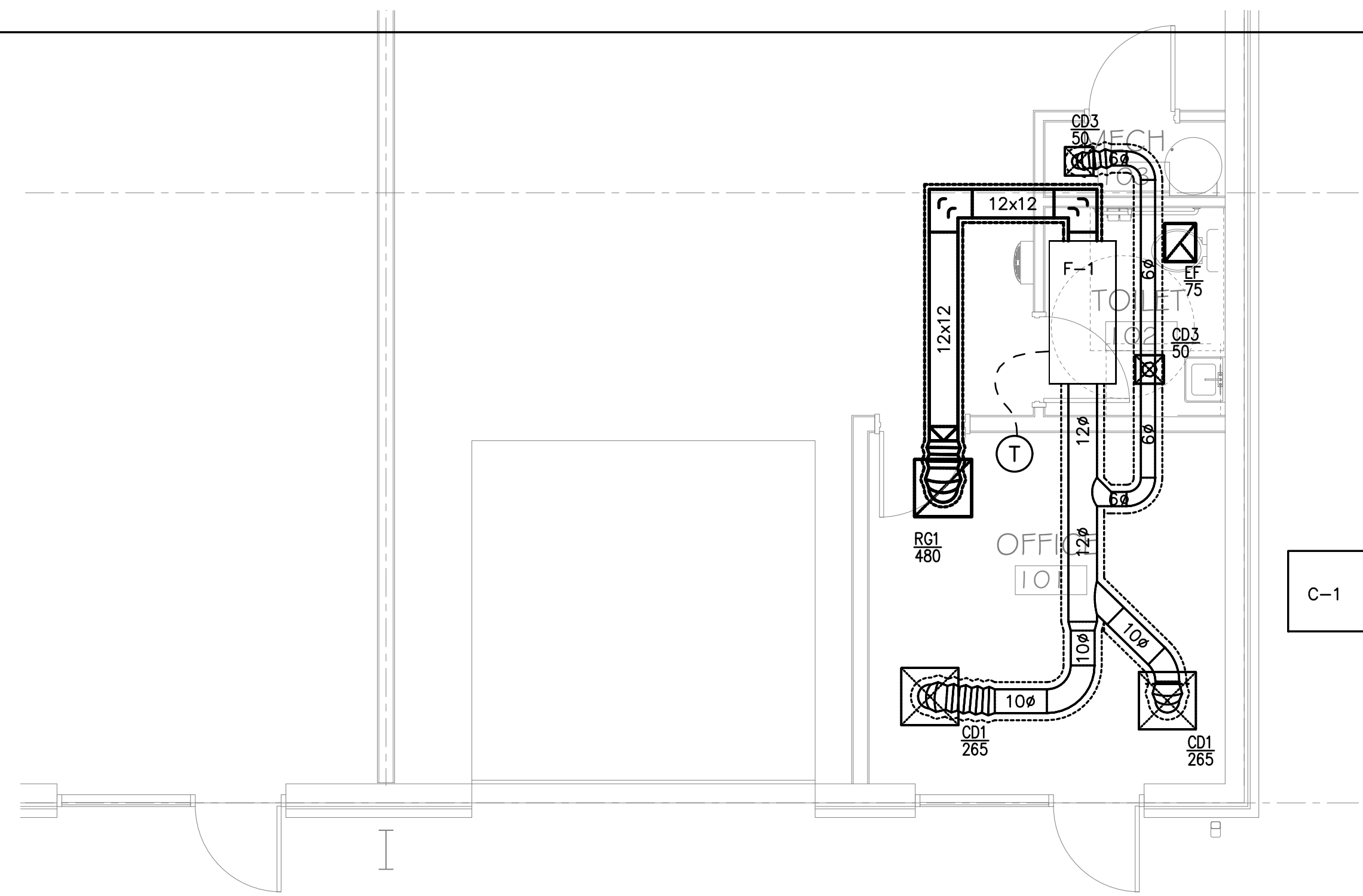
- A. INTEGRAL BACKDRAFT DAMPER.
B. WHITE PLASTIC GRILLE
C. NOT USED
D. GEMINI ISOLATOR KIT - ISOLATORS
E. NOT USED

NOTES:

1. VERIFY APPROVED EQUALS WITH OWNER.

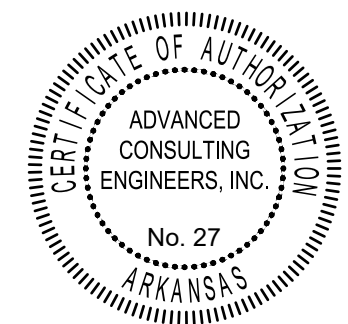
ACEI DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	FACE SIZE (IN)	INLET SIZE (IN)	MODEL
CD1	24x24	8ø	TITUS - TMS
CD3	12x12	6ø	TITUS - TMS
EF	16x13	6ø	COOK - GC12B
RG1	24x24	12x12	TITUS - 50FF



ROOM AIR BALANCE REPORT

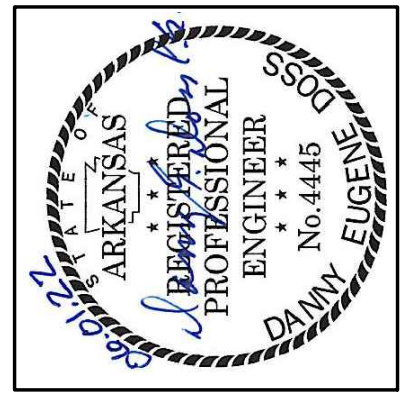
ROOM NUMBER	ROOM NAME	AREA	CEILING HEIGHT	VOLUME	SUPPLY CFM	RETURN CFM	EXHAUST CFM	OSA CFM REQUIRED	PRESSURIZATION
Mech	Elec/Mech	17	9'-0"	150	50	0	0	4	50
Office	Office	308	9'-0"	2768	530	480	0	35	50
Toilet	General	46	9'-0"	410	50	0	75	14	-25



PRIOR TO BID/START OF 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 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 ALL LOWER 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.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL

PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
ACEI@ADVENGINEERS.COM



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

Revision Schedule	Description
Rev. #	Date

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2185 WORTH LANE
SPRINGDALE, ARKANSAS
MTNWA INVESTMENTS, LLC
1457 E. ROBINSON AVE.
SPRINGDALE, AR 72764

DATE	DRAWN BY
06/01/22	
PROJECT #	CHECKED BY
2169	
SHEET	
M-100	

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).

- 2.0 PRODUCTS
2.01 GENERAL:
A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT.

- 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.

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.

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.
2.02 PRODUCTS
2.01 INSULATION MATERIALS, GENERAL:
INSULATION MATERIALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING:
2.02 DUCTWORK INSULATION MATERIALS:
A. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS

SECTION 15800

- AIR DISTRIBUTION EQUIPMENT
1.0 GENERAL
1.01 SCOPE:
A. PROVIDED ALL AIR DISTRIBUTION DEVICES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN FOR A COMPLETE AND OPERABLE SYSTEM.
1.02 RELATION TO OTHER WORK:
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.

SECTION 15800

- AIR DISTRIBUTION EQUIPMENT
1.0 GENERAL
1.01 SCOPE:
A. PROVIDED ALL AIR DISTRIBUTION DEVICES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN FOR A COMPLETE AND OPERABLE SYSTEM.
1.02 RELATION TO OTHER WORK:
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.

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".

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.

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.
B. REINFORCING, CROSS BREAKING, SEAMS, JOINTS: BE IN ACCORDANCE WITH LATEST SMACNA CONSTRUCTION STANDARD FOR LOW PRESSURE SHEET METAL DUCT.

2.02 FLEXIBLE DUCTS:

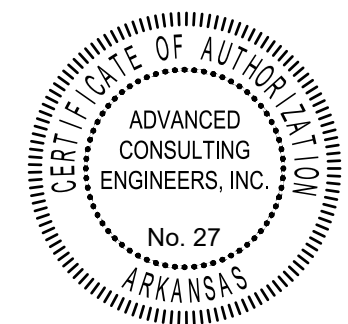
- A. FLEXIBLE DUCT SHALL CONSIST OF SPIRAL WOUND HELIX COIL WITH TRILAMINATE INNER FABRIC, CORE SHALL BE COVERED WITH FACTORY APPLIED ON INCH, ONE POUND PER CUBIC FOOT FIBERGLASS INSULATION OF 0.23 THERMAL CONDUCTANCE SHEATHED IN A SEAMLESS EXTERIOR CLASS 1 VAPOR BARRIER JACKET REINFORCED ALUMINUM FOIL 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'-0" TO MAKE SUITABLE CONNECTIONS WITH MINIMUM PRESSURE DROP WITH MANUAL BUTTERFLY DAMPER AT CONNECTION TO MAIN DUCT BRANCH.

2.04 LOW PRESSURE DUCT SYSTEM ACCESSORIES:

- A. GENERAL:
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:
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 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.
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

- 3.01 GENERAL:
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 CEILING 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.



PRIOR TO BID/START OF 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 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 ALL LOWER 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.

ACEI ADVANCED CONSULTING ENGINEERS MECHANICAL ELECTRICAL INDUSTRIAL PO BOX 427 ROGERS, AR 72756 PH 479-631-1712 FX 479-631-1854 ACEI@ADVENGINEERS.COM

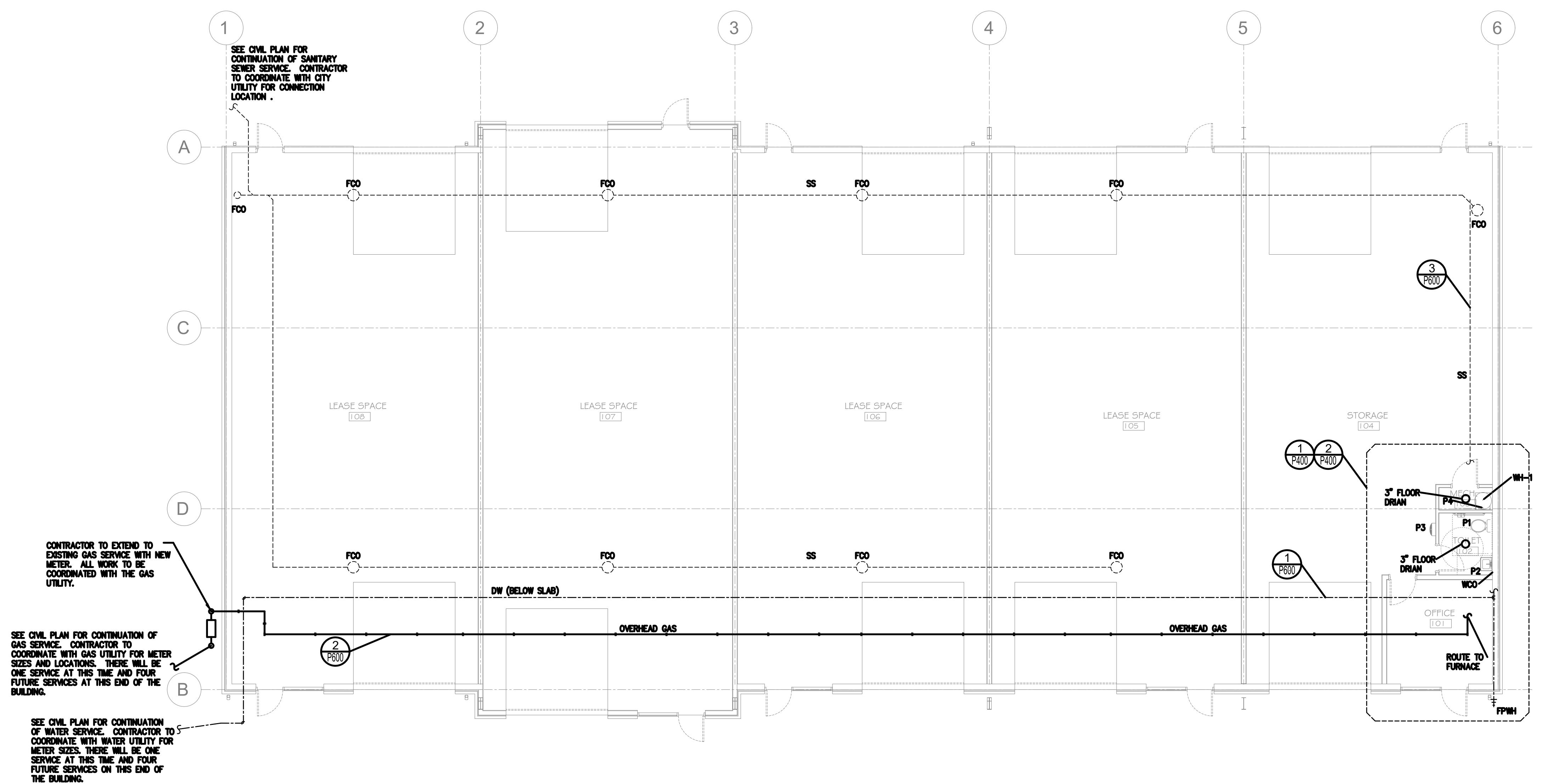


KEY ARCHITECTURE INC. P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702 PH: 479.444.6066 FAX: 479.444.1445

Table with 2 columns: Revision, Description. Includes a row for Schedule Description.

NEW OFFICE WAREHOUSE 5-BAY BLDG. 2165 WORTH LANE SPRINGDALE, ARKANSAS MTNWA INVESTMENTS, LLC 1457 E. ROBINSON AVE. SPRINGDALE, AR 72764

Table with 2 columns: DATE, DRAWN BY, PROJECT #, CHECKED BY, SHEET M-700.



SEE CIVIL PLAN FOR CONTINUATION OF SANITARY SEWER SERVICE. CONTRACTOR TO COORDINATE WITH CITY UTILITY FOR CONNECTION LOCATION.

CONTRACTOR TO EXTEND TO EXISTING GAS SERVICE WITH NEW METER. ALL WORK TO BE COORDINATED WITH THE GAS UTILITY.

SEE CIVIL PLAN FOR CONTINUATION OF GAS SERVICE. CONTRACTOR TO COORDINATE WITH GAS UTILITY FOR METER SIZES AND LOCATIONS. THERE WILL BE ONE SERVICE AT THIS TIME AND FOUR FUTURE SERVICES AT THIS END OF THE BUILDING.

SEE CIVIL PLAN FOR CONTINUATION OF WATER SERVICE. CONTRACTOR TO COORDINATE WITH WATER UTILITY FOR METER SIZES. THERE WILL BE ONE SERVICE AT THIS TIME AND FOUR FUTURE SERVICES ON THIS END OF THE BUILDING.

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER	CATALOG NUMBER	TRIM	NOTES	RUNOUT SIZES (MINIMUM)		RUNOUT SIZES (MINIMUM)	
						CW	HW	WASTE	VENT
P1	WATER CLOSET (HC) FLOOR MOUNT	AMERICAN STANDARD	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 #8912C	A,B,C,D,E,G	1/2"	1/2"	1 1/4"	1 1/2"
P3	DRINKING FOUNTAIN (HC)	HALSEY TAYLOR	HTHB-HACBPV-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"

ACCESSORIES:
 A. CHROME PLATED BRASS 7" TRAP.
 B. FLEXIBLE SUPPLIES WITH KEYS STOPS ZURN QV332.
 C. ACCEPTABLE MANUFACTURERS ARE AMERICAN STANDARD, CRANE, AND KOHLER.
 D. DRAIN LINE SHALL BE WRAPPED WITH INSULATION PER ADA REQUIREMENTS. TRUBRO 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.

1 WATER / SEWER / GAS MAINS

Scale: 1/8" = 1'

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

WATER HEATER SCHEDULE					
MARK	MANUFACTURER MODEL	INPUT KW TANK SIZE	VOLT/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

NOTES:
 1. VERIFY VOLTAGE WITH ELECTRICAL CONTRACTOR.
 2. FURNISHED AND INSTALLED BY CONTRACTOR.
 3. CONTRACTOR SHALL FURNISH AND INSTALL VACUUM BREAKER.

WATER SUPPLY CALCULATION

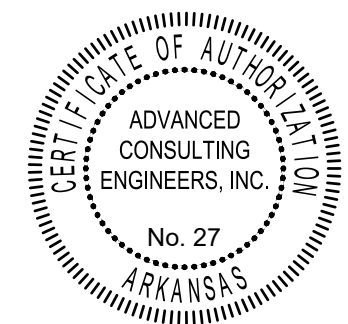
SITE LOCATION: SPRINGDALE, ARKANSAS

STATIC PRESSURE:	60 PSI (ASSUMED)	FIXTURE UNIT CALCULATION:	(1) WC 5 x 1 = 5
TOTAL F.U.:	11	(1) LAV 2 x 1 = 2	
GPM: BUILDING USAGE	16	(6) HB 0.5 x 1 = 0.5	
GPM: IRRIGATION USAGE	4	(1) MS 3 x 1 = 3	
TOTAL PROJECTED WATER USAGE	20 GPM	(1) EDF 5 x 1 = 0.5	
WATER METER:	3/4"		

60 PSI PRESSURE IN MAIN
 - 5 PSI LOSS THROUGH 3/4" METER
 - 2 PSI LOSS THROUGH TRAP
 - 20 PSI FIXTURE OPERATING PRESSURE
 - 5.2 PSI DROP FOR ELEVATION (12 FT.)
 - 15 PSI BACKFLOW PREVENTER
 12.8 PSI AVAILABLE PRESSURE

PIPE LENGTH (TAP TO METER) 50 FT. (ESTIMATED)
 PIPE LENGTH (METER TO BUILDING) 30 FT. (ESTIMATED)
 PIPE LENGTH (TO FURTHEST FIXTURE) 65 FT.
 VERTICAL LENGTH 10 FT.
 EQUIVALENT LENGTH OF FITTINGS 28 FT.
 TOTAL DEVELOPED LENGTH 183 FT.

MAX. ALLOWED LOSS = AVAILABLE PRESSURE: 12.8 PSI
 (PER 100 FT. OF PIPE) TOTAL DEVELOPED LENGTH: 183 FT. = x 100 = 7.0 PSI/100 FT.
 WATER SERVICE FROM METER SHALL BE 1 1/4" AS SHOWN ON SHEET P800.



PRIOR TO BID/START OF 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 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 TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOWER 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.

ACEI
 ADVANCED CONSULTING ENGINEERS
 MECHANICAL ELECTRICAL INDUSTRIAL

PO BOX 427
 ROGERS, AR 72756
 PH 479-631-1712
 FX 479-631-1854
 ACEI@ADVENGINEERS.COM



KEY ARCHITECTURE INC.

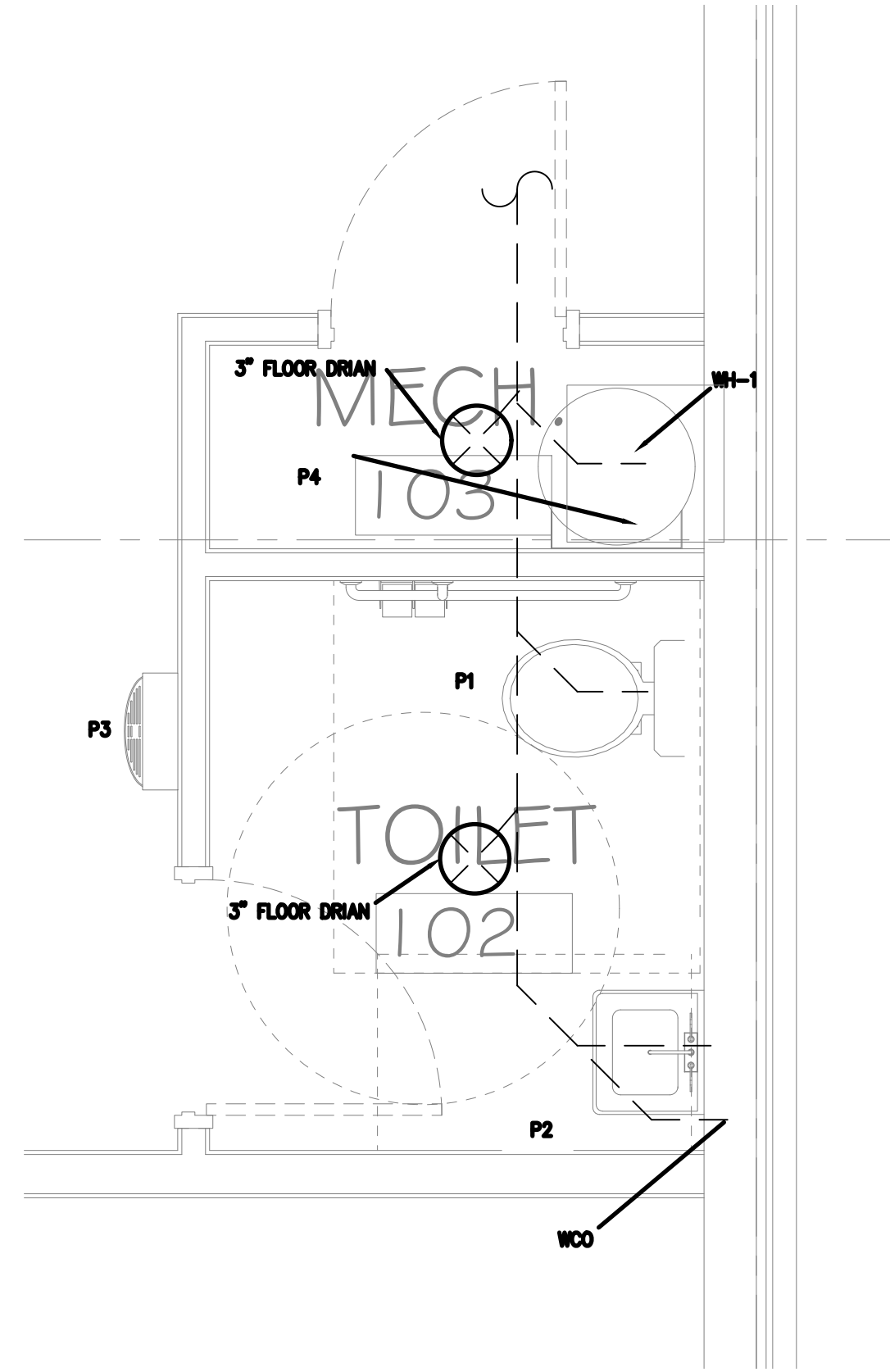
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
 PH: 479.444.6066 FAX: 479.444.1445

Revision	Schedule	Date	Description
Rev. #			

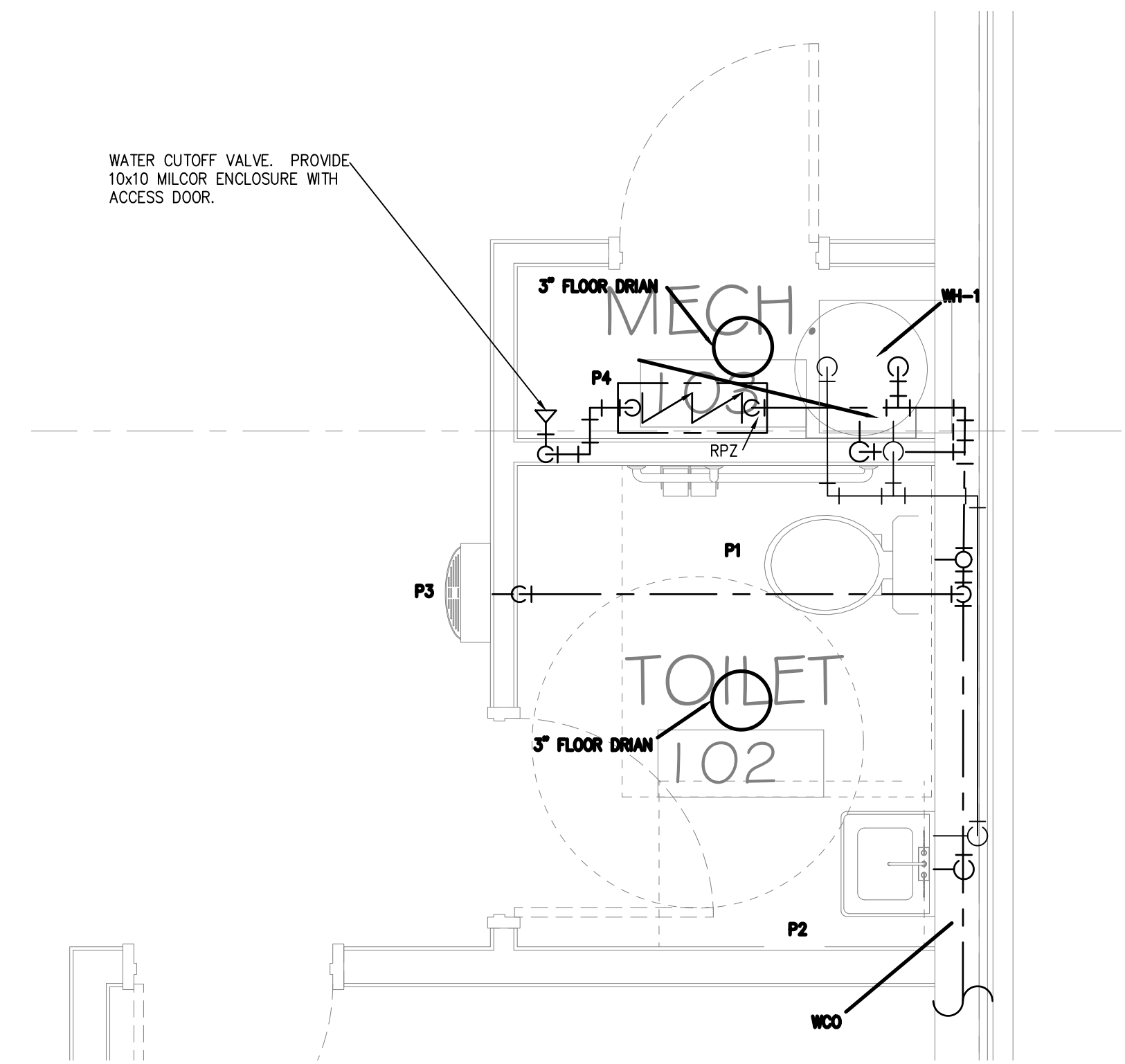
NEW OFFICE WAREHOUSE 5-BAY BLDG.
 2185 WORTH LANE
 SPRINGDALE, ARKANSAS

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

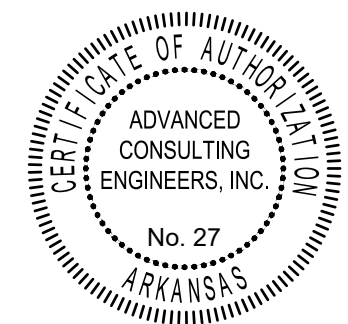
DATE	DRAWN BY
06/01/22	
PROJECT #	CHECKED BY
2169	
SHEET	
P-100	



1 ENLARGED SEWER PLAN
Scale: 1/2" = 1'

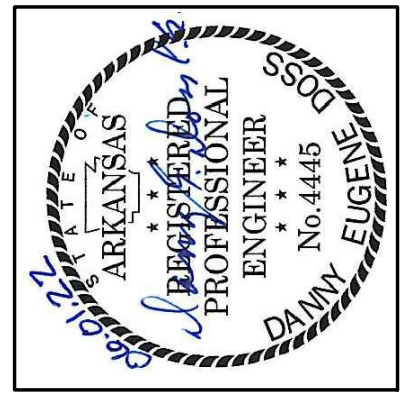


2 ENLARGED WATER PLAN
Scale: 1/2" = 1'



PRIOR TO BID/START OF 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 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 ALL LOWER 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.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
ACEI@ADVENGINEERS.COM



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

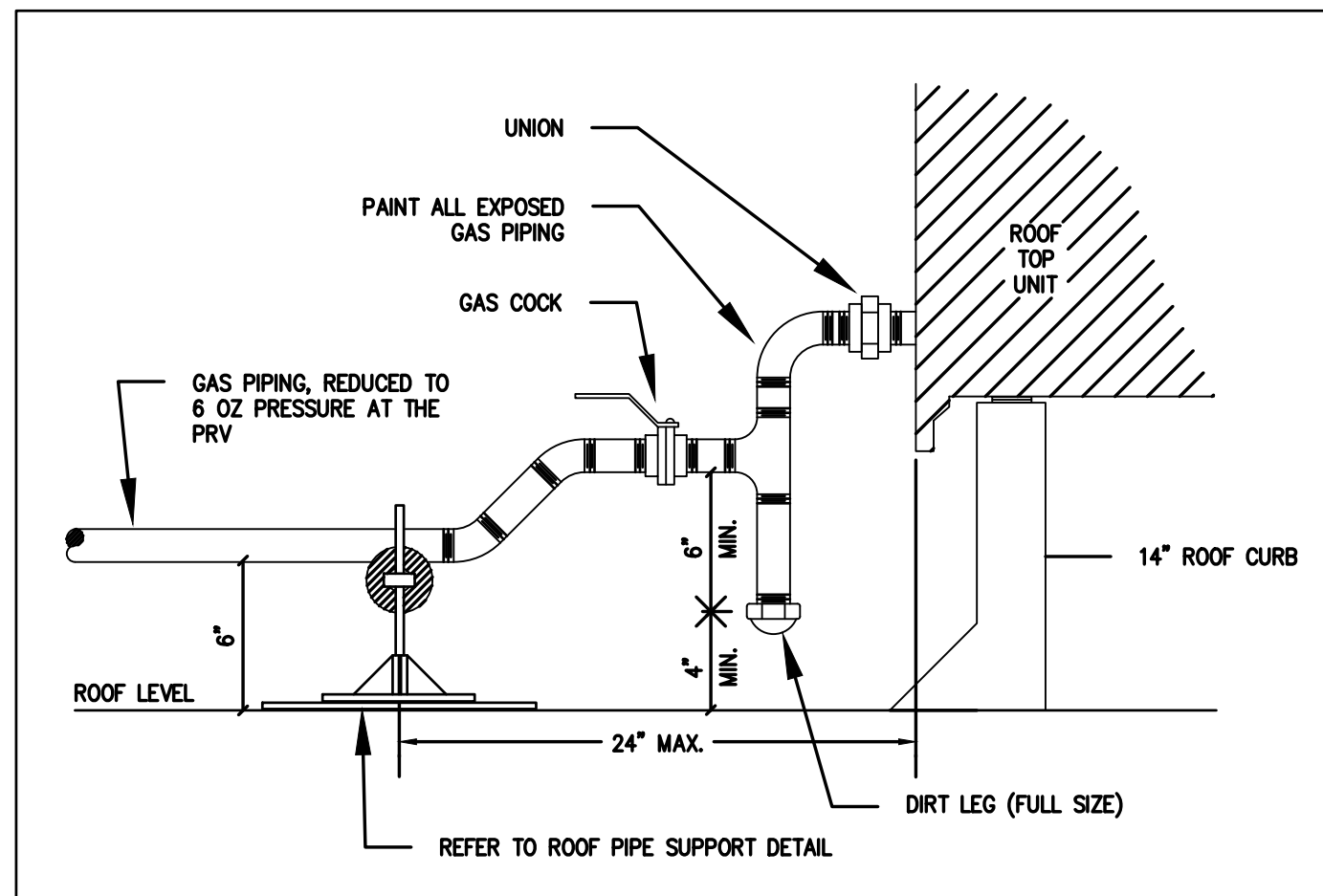
Revision	Schedule	Description
Rev. #	Date	

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2165 WORTH LANE
SPRINGDALE, ARKANSAS

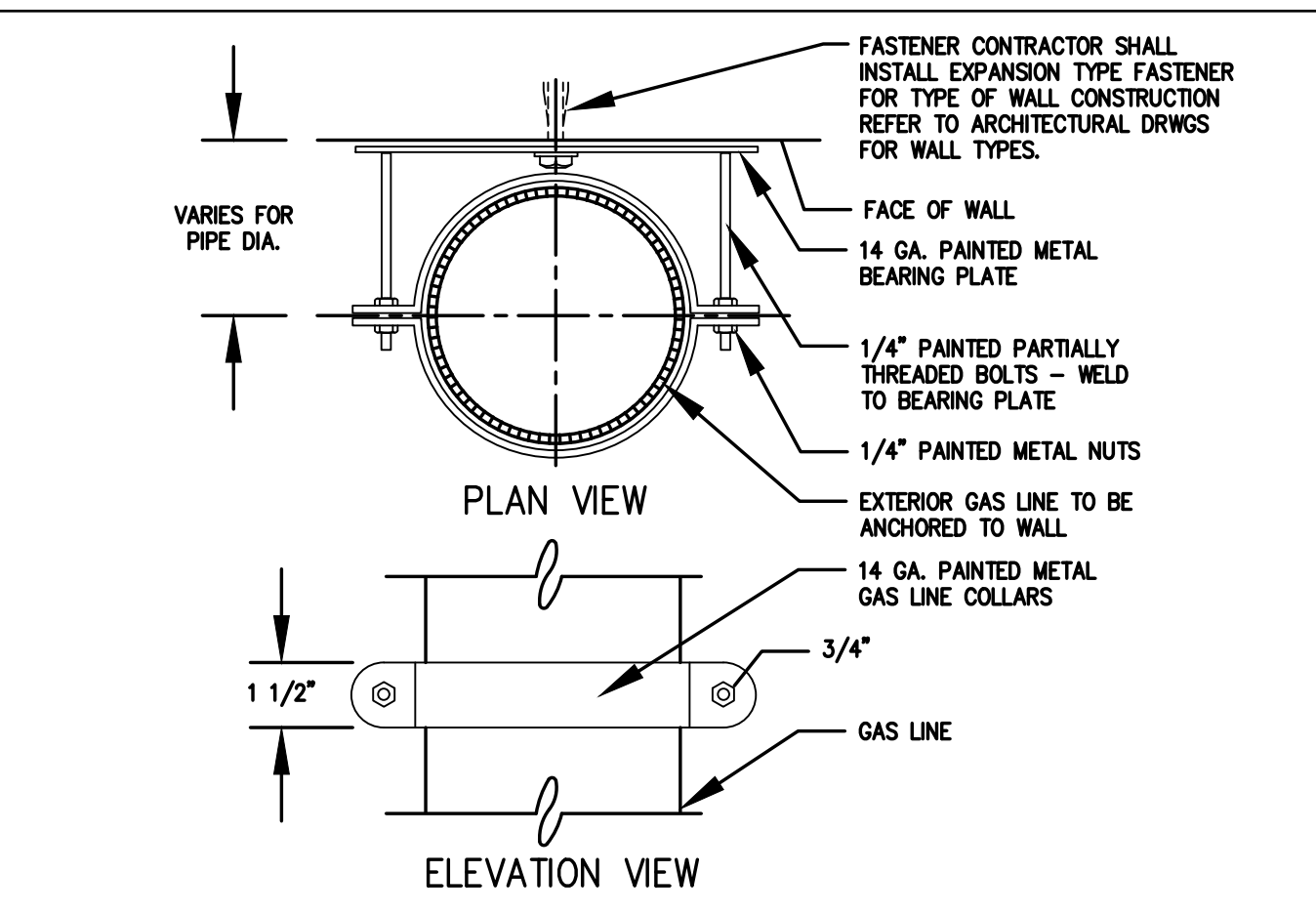
MTNWA INVESTMENTS, LLC
1457 E. ROBINSON AVE.
SPRINGDALE, AR 72764

DATE: 06/01/22
PROJECT #: 2169
DRAWN BY:
CHECKED BY:

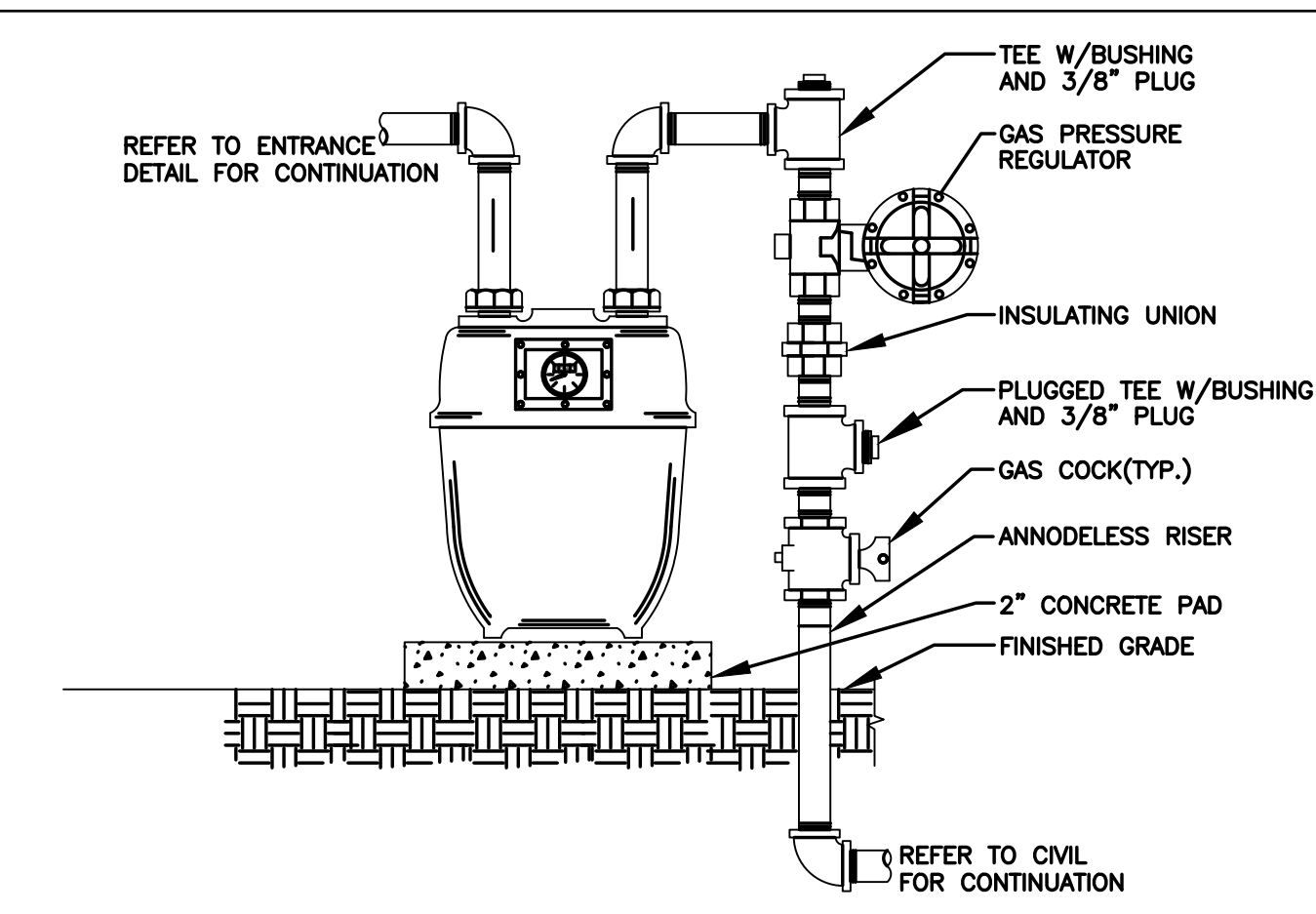
SHEET
P-400



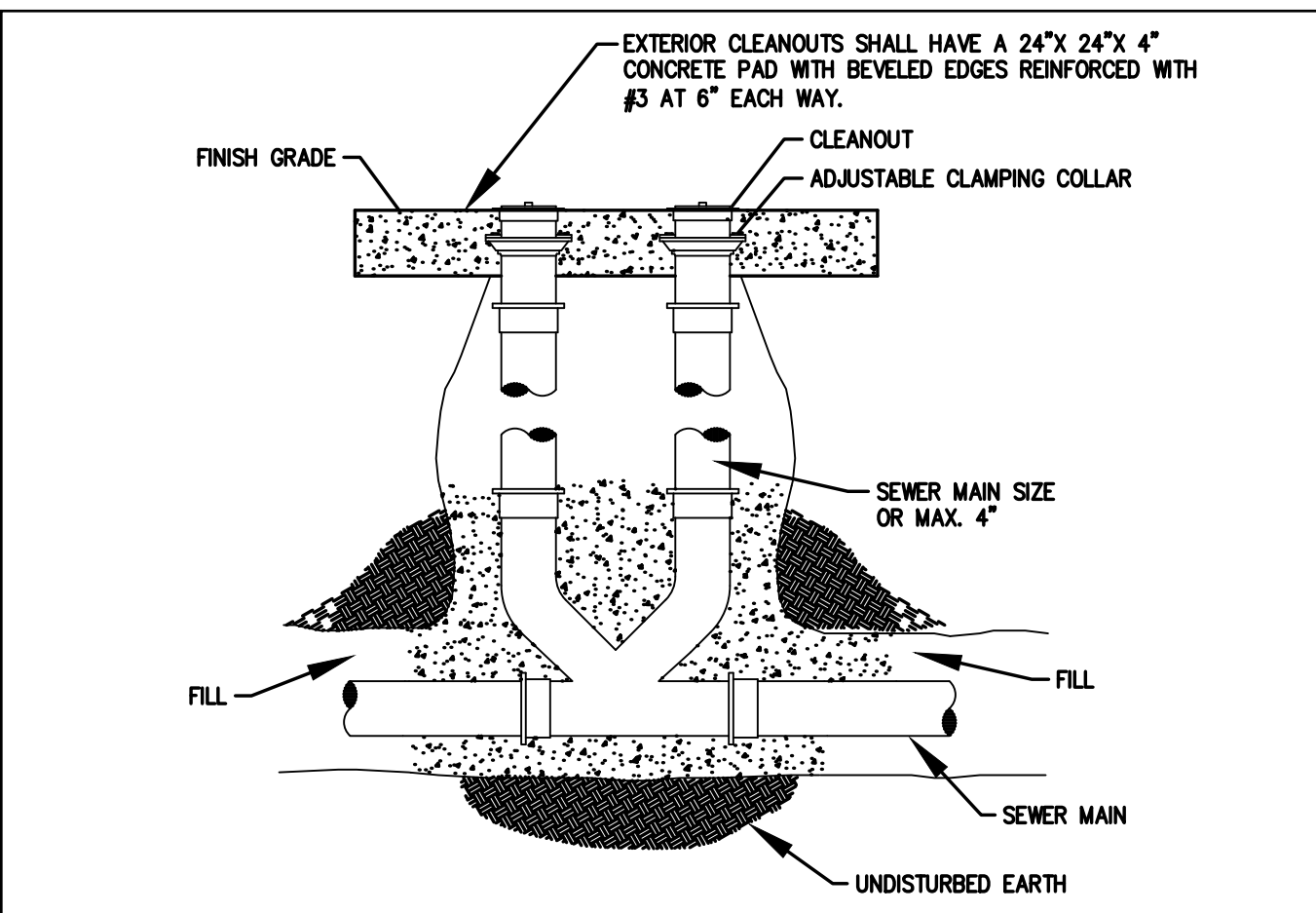
1 EQUIP. NAT. GAS CONN. DETAIL SCALE: NTS



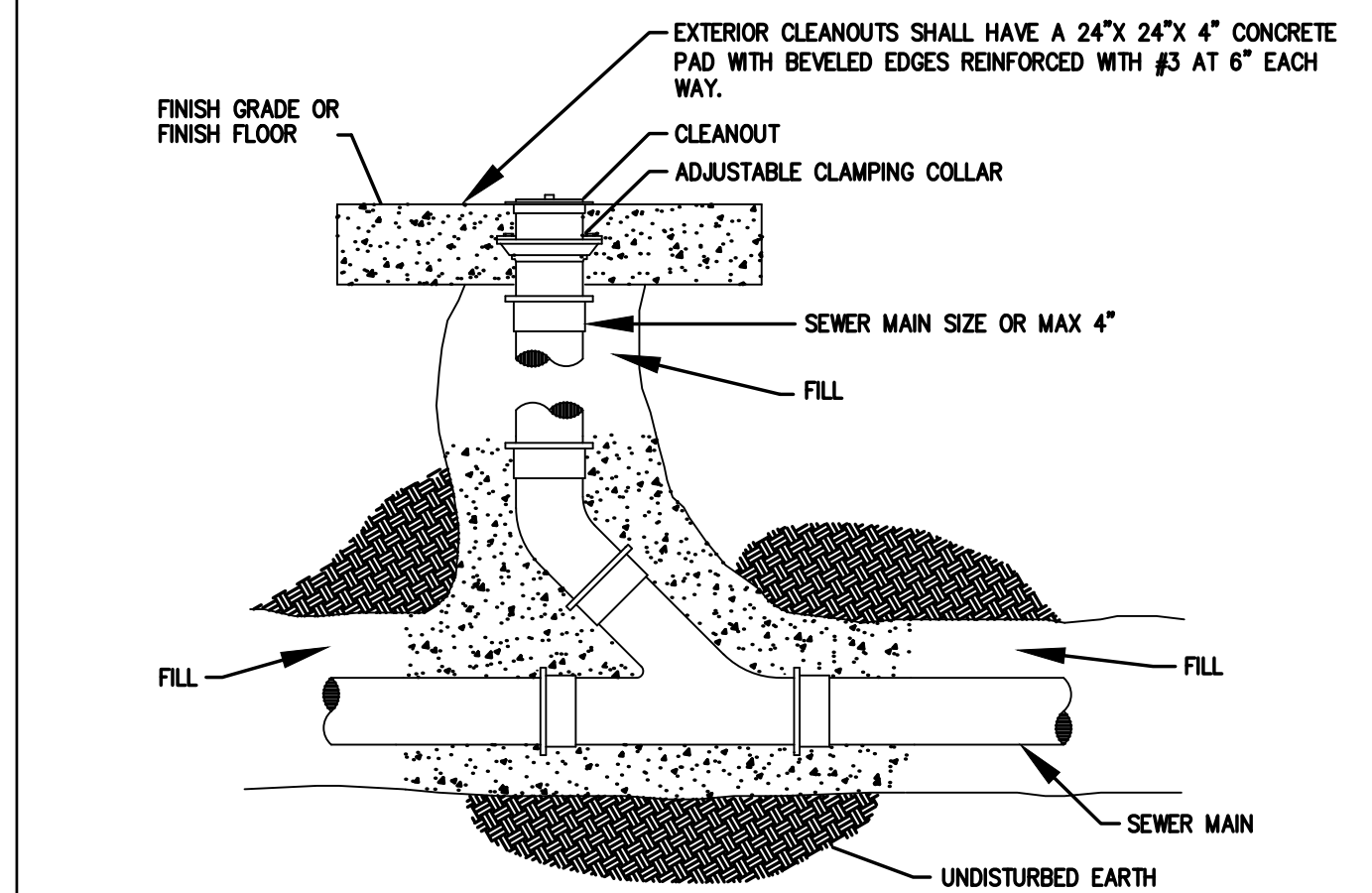
2 EXTERIOR WALL GAS LINE ANCHORING SCALE: NTS



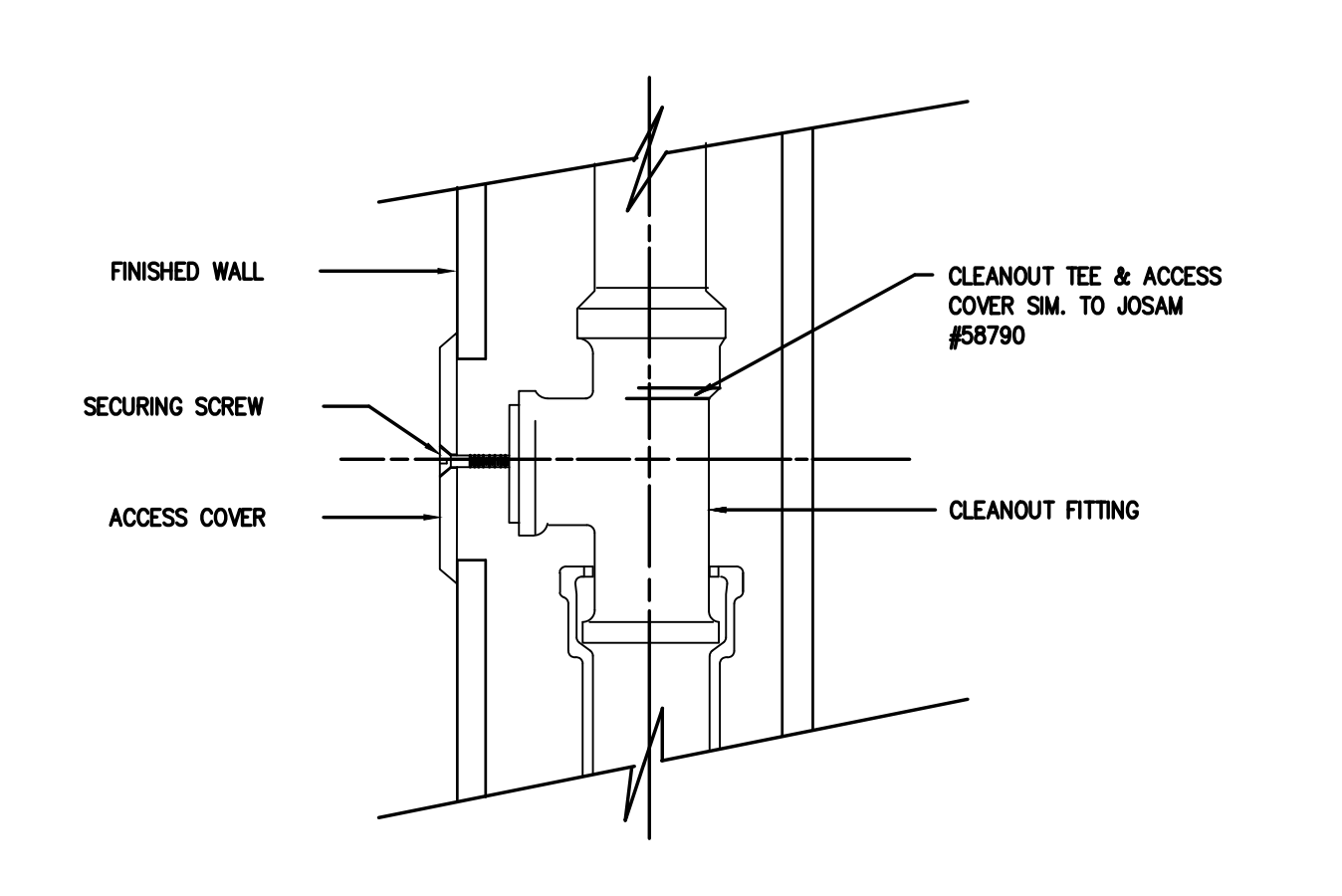
3 TYPICAL GAS SERVICE METER DETAIL SCALE: NTS



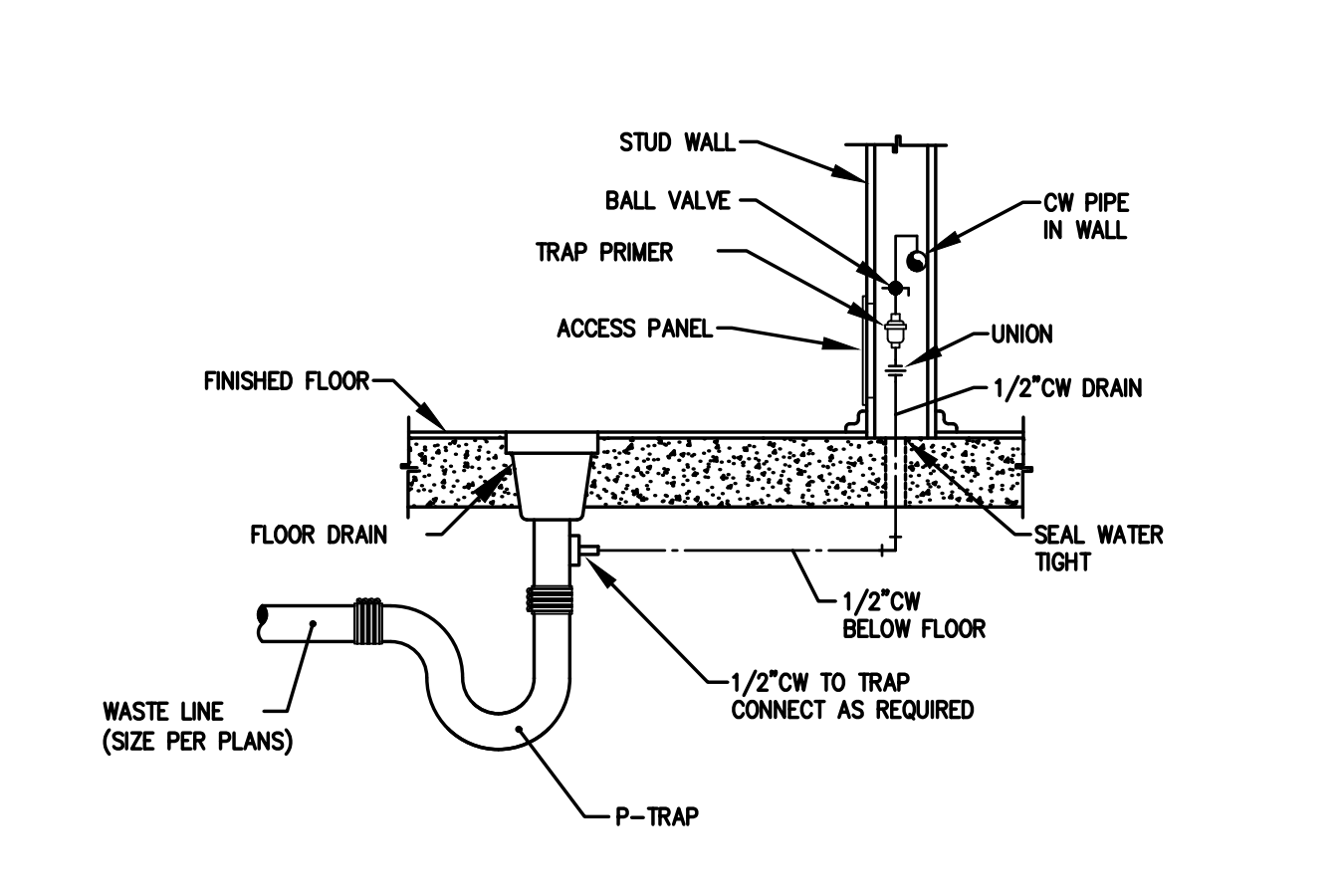
4 TWO WAY CLEANOUT SCALE: NTS



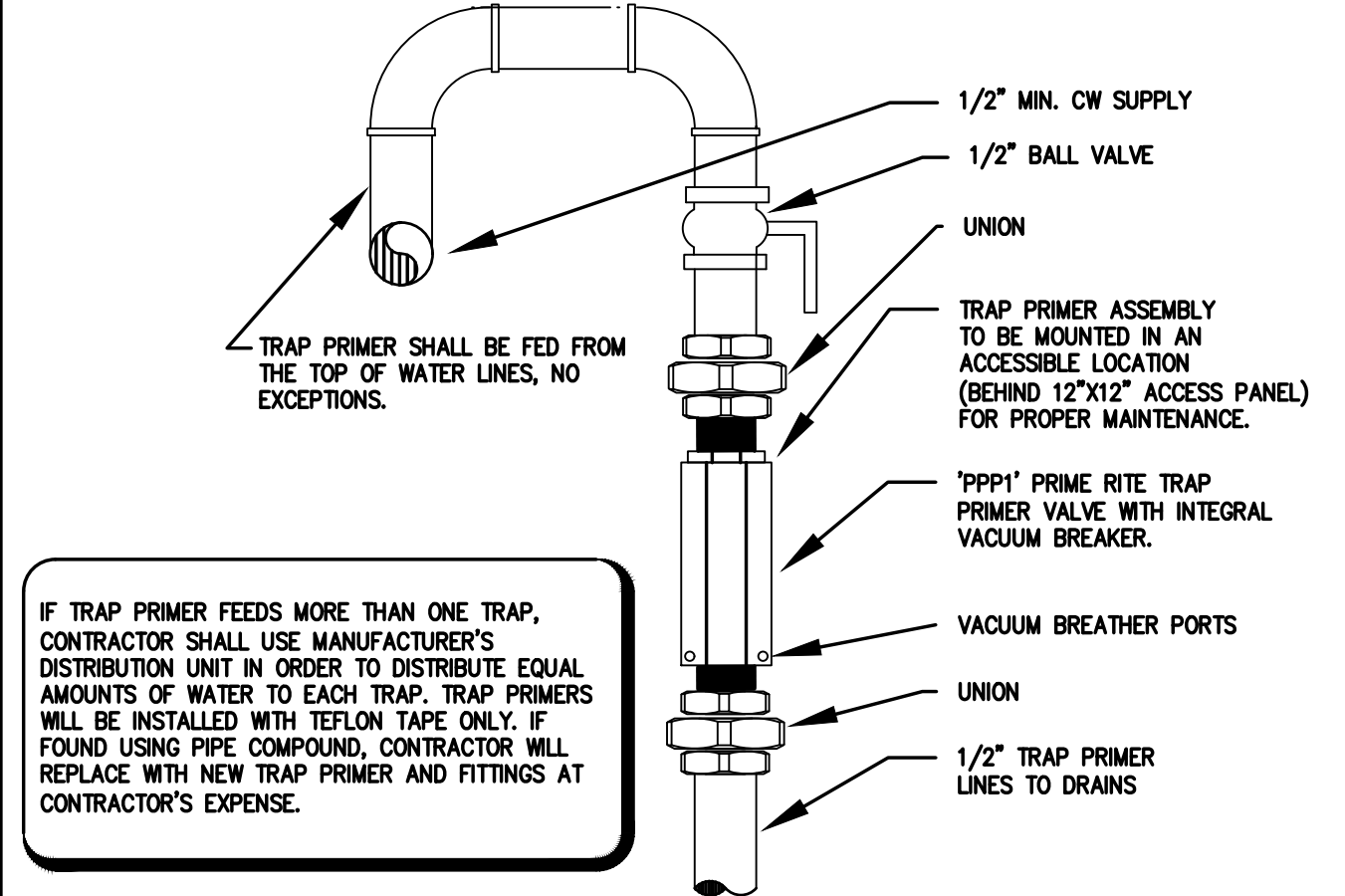
5 CLEANOUT SCALE: NTS



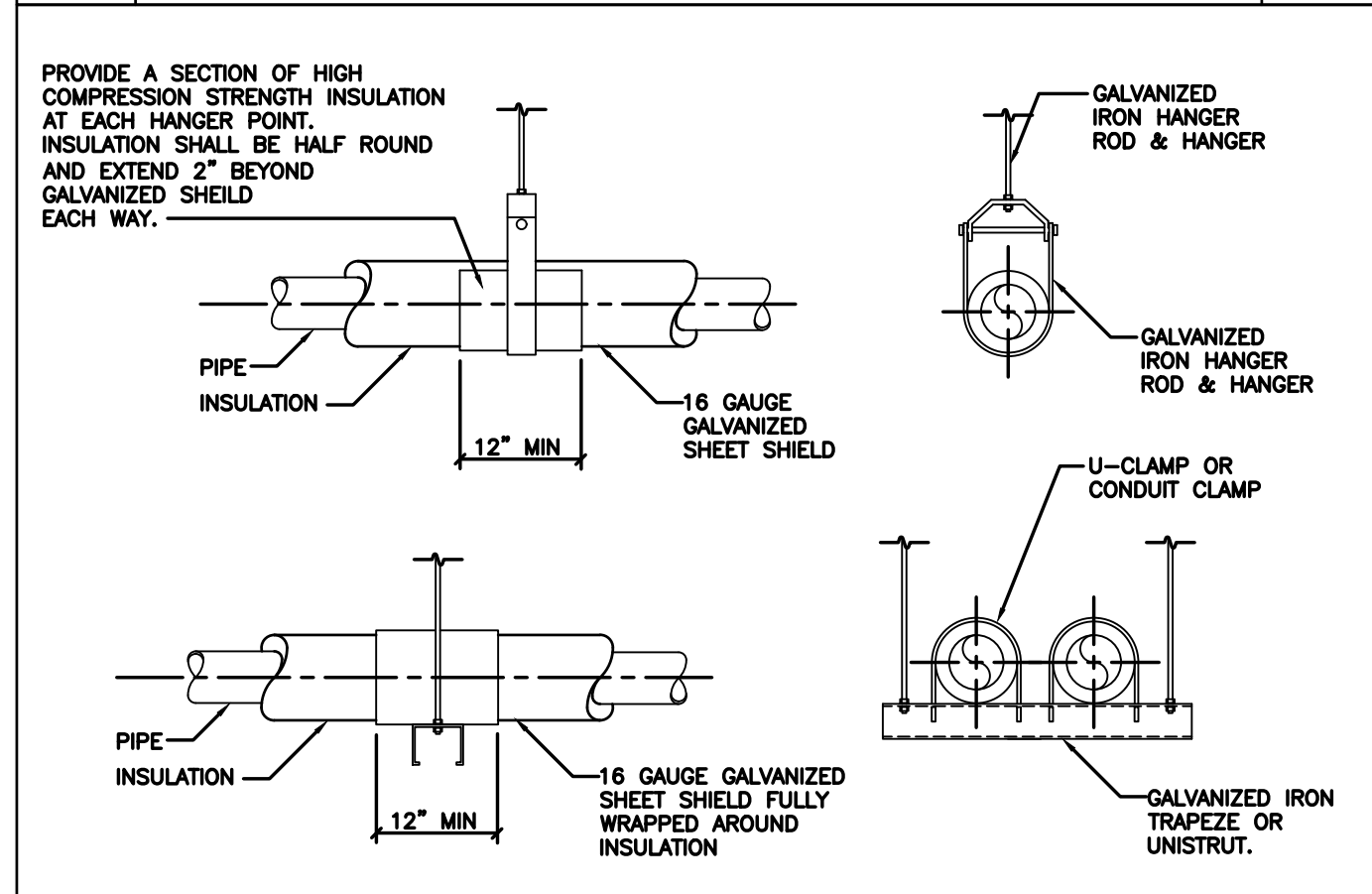
6 WALL CLEANOUT SCALE: NTS



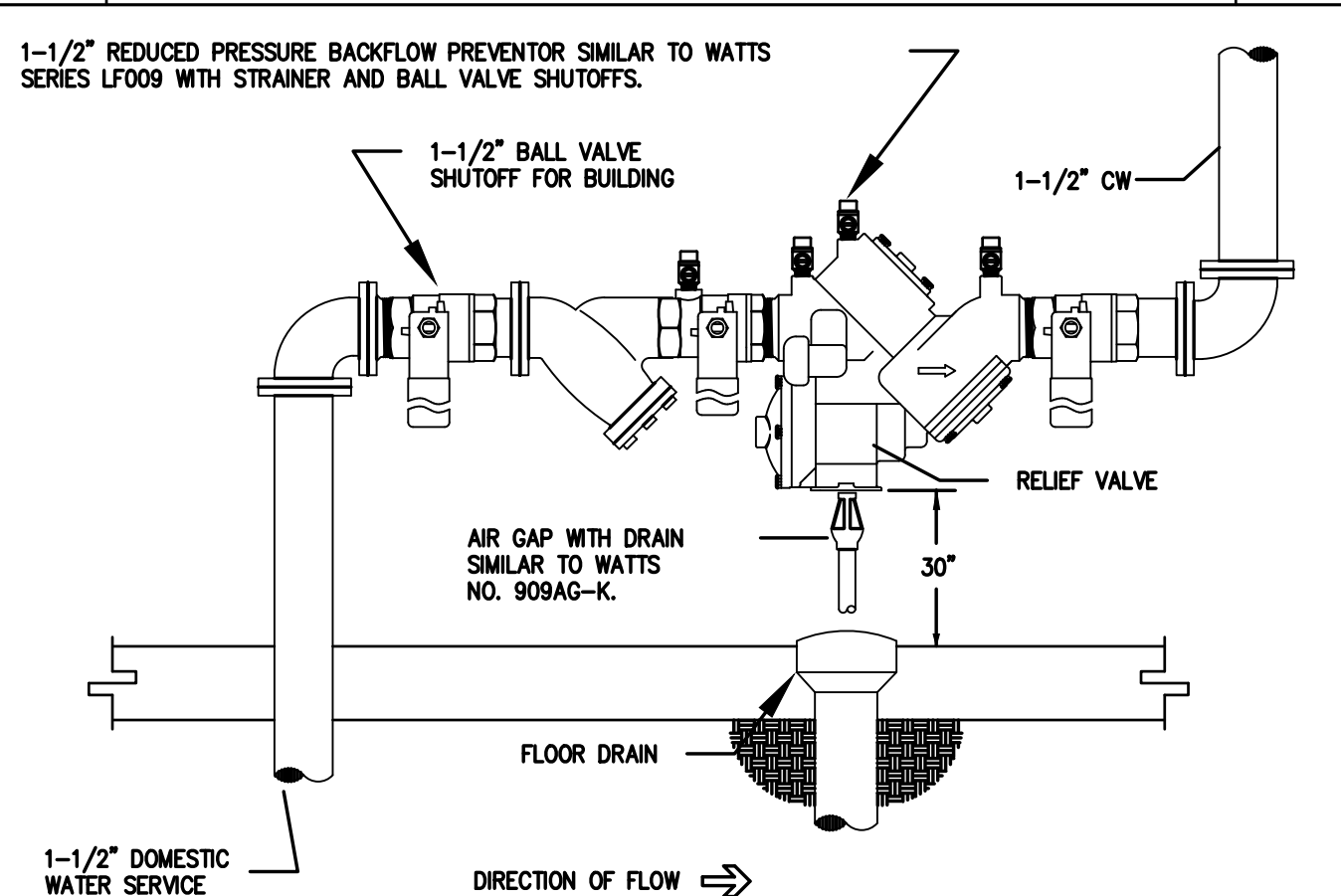
7 TRAP PRIMER TO FLOOR DRAIN SCALE: NTS



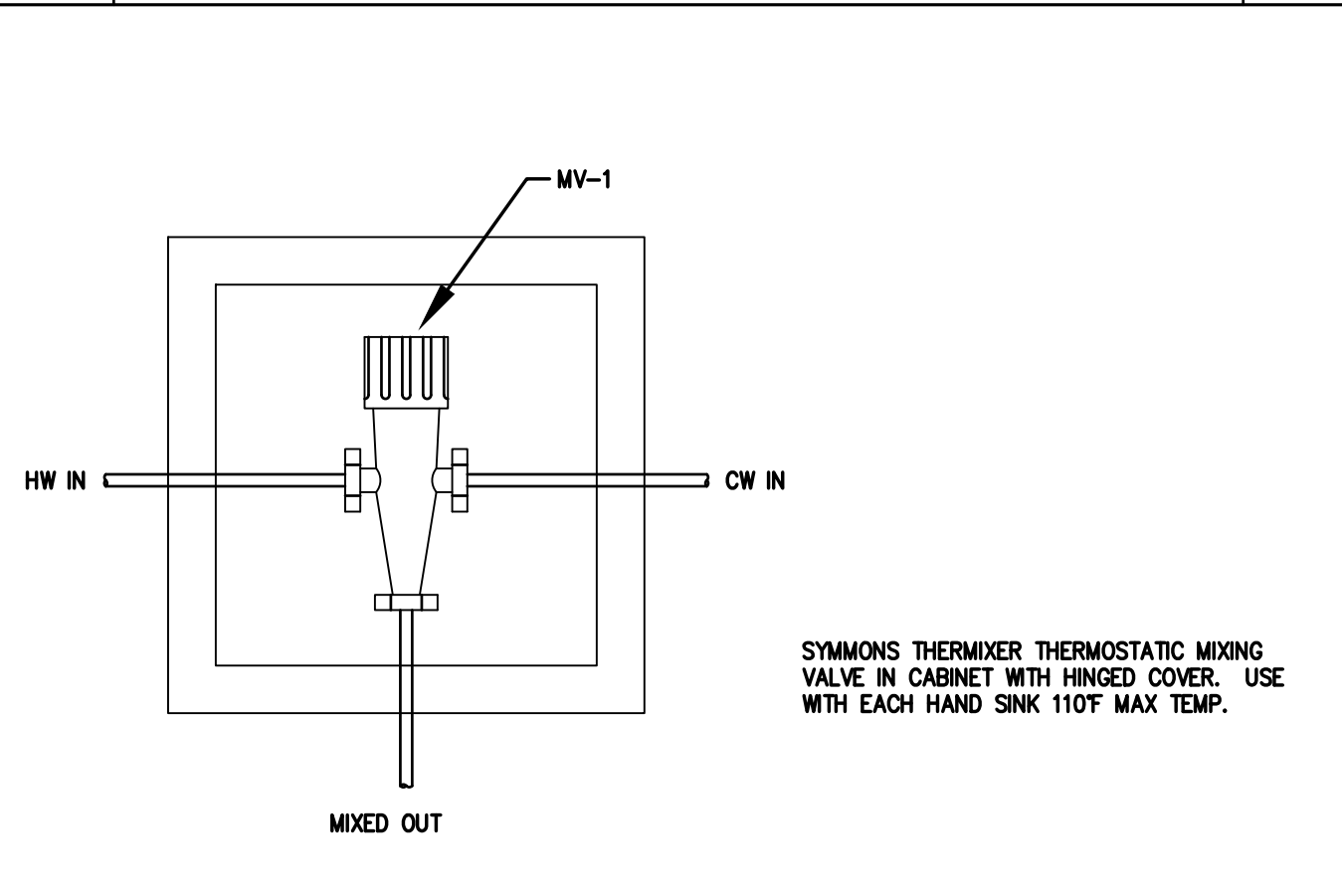
8 TRAP PRIMER SCALE: NTS



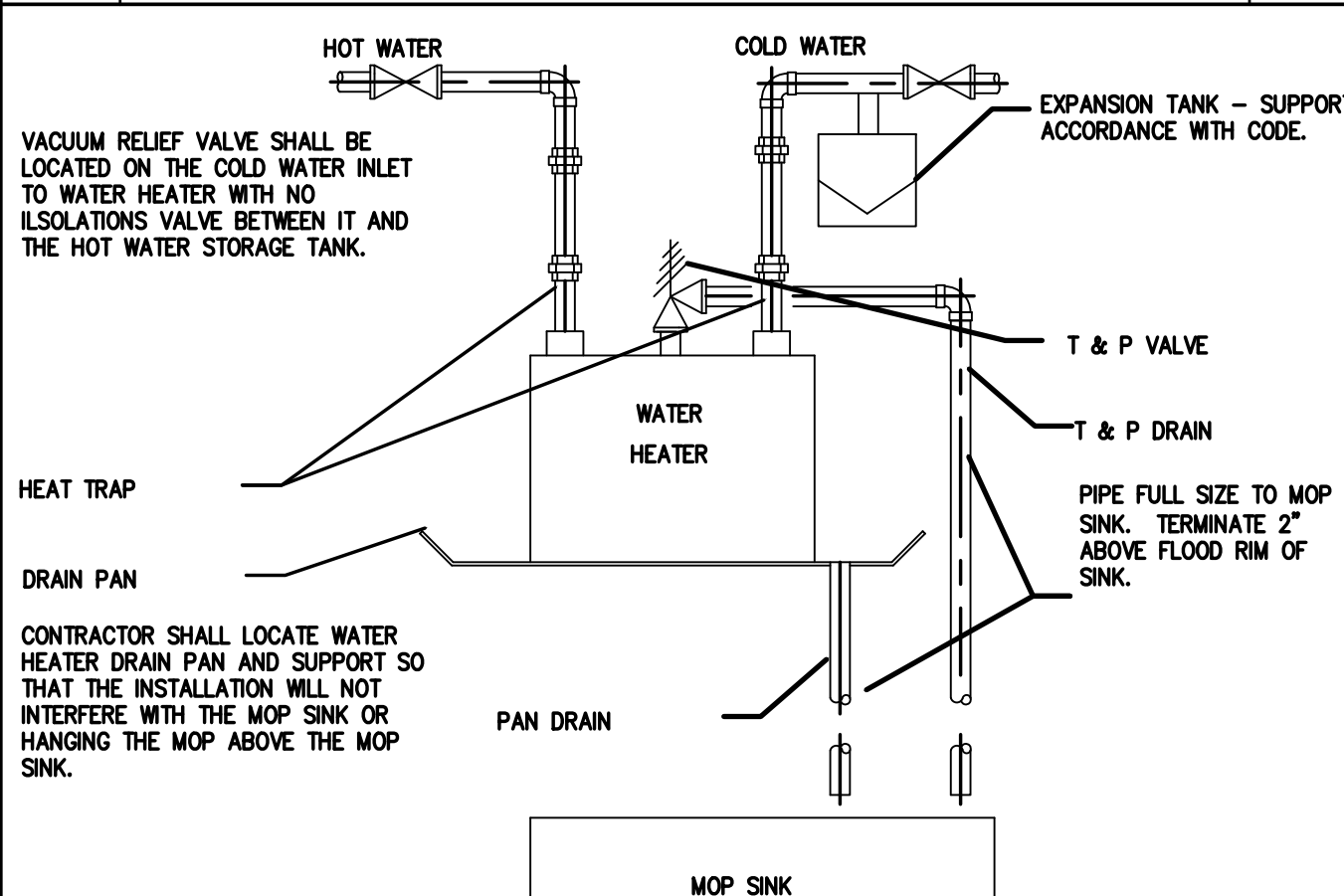
9 PIPE HANGER DETAILS SCALE: NTS



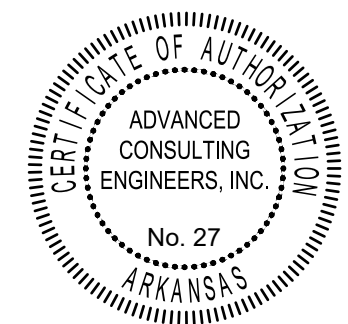
10 REDUCED PRESSURE BACKFLOW PREVENTOR SCALE: NTS



11 TEMPERING VALVE SCALE: NTS

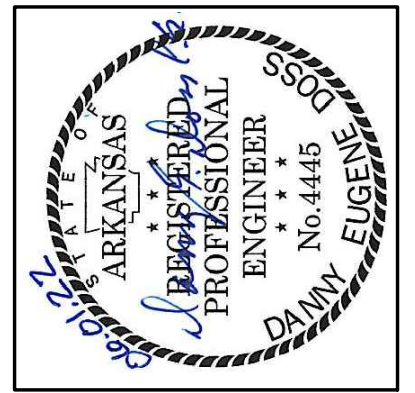


12 WATER HEATER SCALE: NTS



PRIOR TO BID/START OF 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 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 CONTRACTOR'S OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOWER 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.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
ACEI@ADVENGINEERS.COM

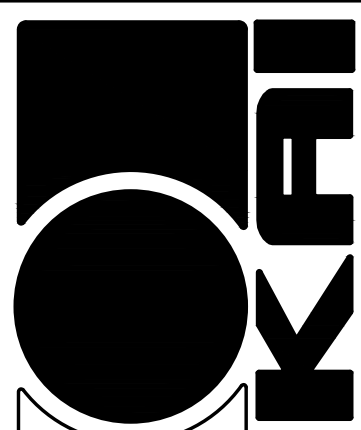
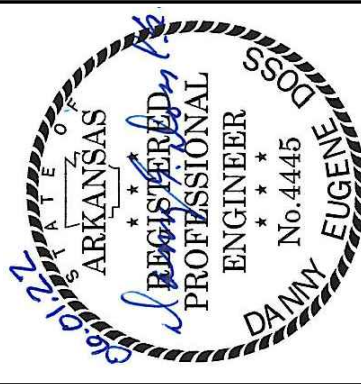


KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

Revision	Schedule	Description
Rev. #	Date	

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2165 WORTH LANE
SPRINGDALE, ARKANSAS
MTNWA INVESTMENTS, LLC
1457 E. ROBINSON AVE.
SPRINGDALE, AR 72764

DATE	DRAWN BY
06/01/22	
PROJECT #	CHECKED BY
2169	
SHEET	
P-500	



KEY ARCHITECTURE INC.

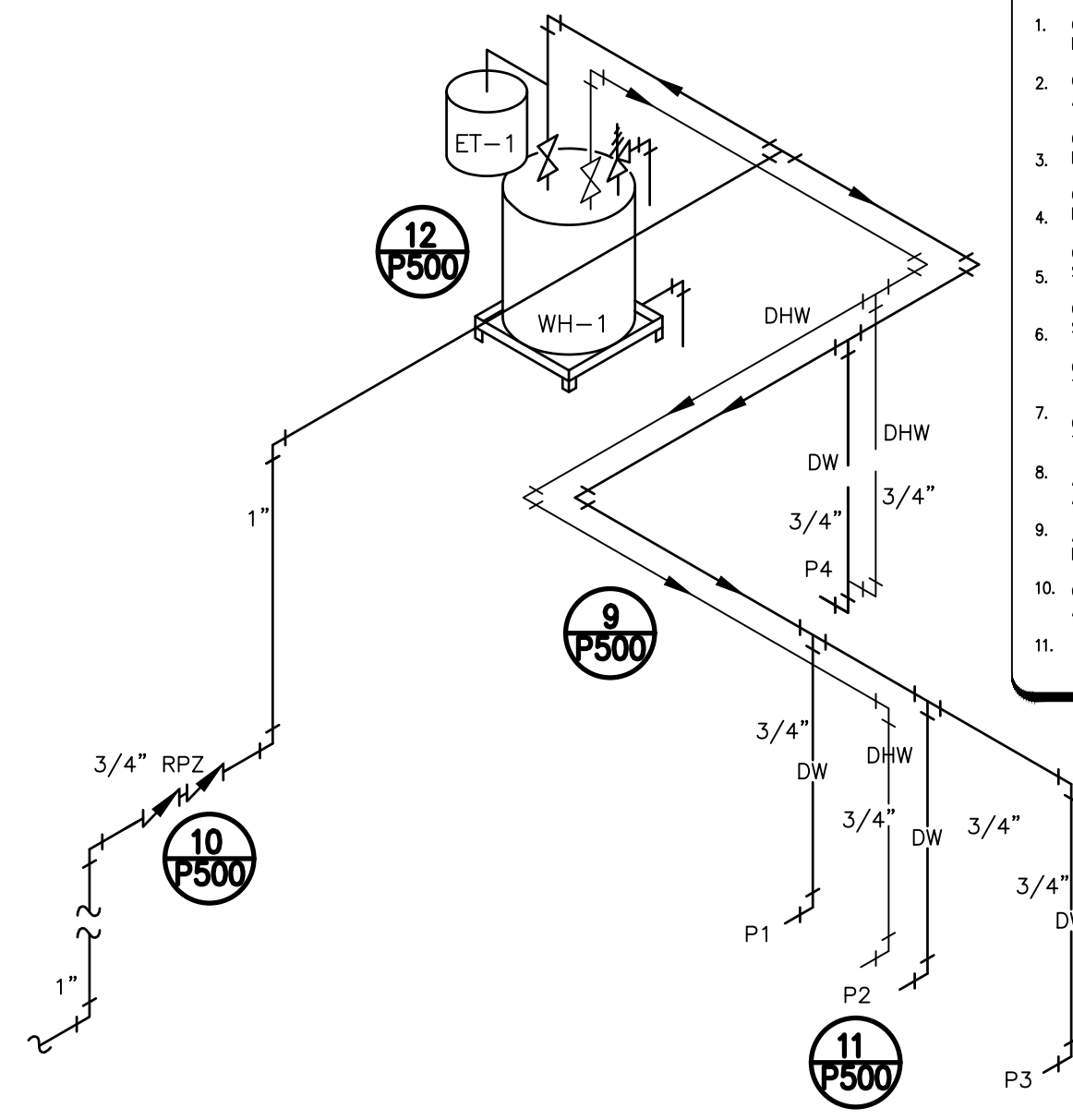
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

5/23/2021 11:51:12 AM S:\2136 Columbus House Brewery Improvements\Columbus House Brewery Improvements.rvt

9/23/2021 11:51:12 AM

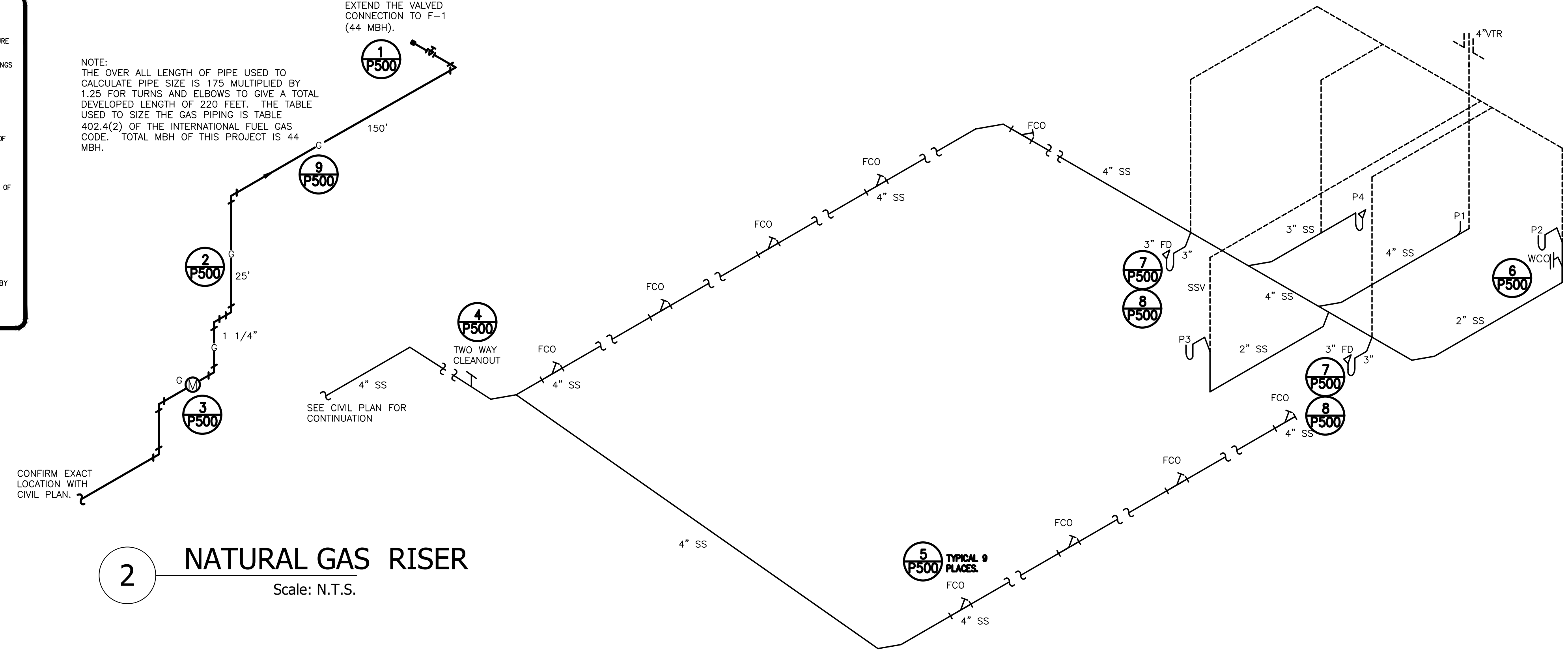
DOMESTIC RISER NOTES:

- CONTRACTOR SHALL REFER TO PLUMBING FLOOR PLANS FOR PLUMBING FIXTURE DESIGNATIONS.
- CONTRACTOR SHALL REVIEW PLUMBING, KITCHEN, AND ARCHITECTURAL DRAWINGS AND PROVIDE ALL PLUMBING FIXTURES SHOWN ON EACH DRAWING.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ADA/TAS APPROVED PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL INSTALL SHOCK ABSORBERS ON ALL PLUMBING FIXTURE BATTERIES AND QUICK CLOSING EQUIPMENT AND FIXTURES.
- CONTRACTOR SHALL INSTALL 12" x 12" ACCESS PANELS DIRECTLY IN FRONT OF SHOCK ABSORBERS.
- CONTRACTOR SHALL INSTALL TRAP PRIMERS ON ALL FLOOR DRAINS, FLOOR SINKS, HUB, AND INDIRECT DRAINS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE 12" x 12" ACCESS PANELS DIRECTLY IN FRONT OF TRAP PRIMERS.
- CONTRACTOR SHALL PROVIDE AN ISOLATION BALL VALVE ON ALL TRAP PRIMERS AND SHOCK ABSORBERS FOR MAINTENANCE.
- ACCESS PANEL SIZES AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECT BEFORE INSTALLATION.
- ARCHITECT RESERVES THE RIGHT TO RELOCATE ACCESS PANELS PRIOR TO INSTALLATION WITHOUT ADDITIONAL COST.
- CONTRACTOR MAY RELOCATE TRAP PRIMERS TO ABOVE CEILING IF ALLOWED BY ARCHITECT, OWNER AND CITY PLUMBING INSPECTOR.

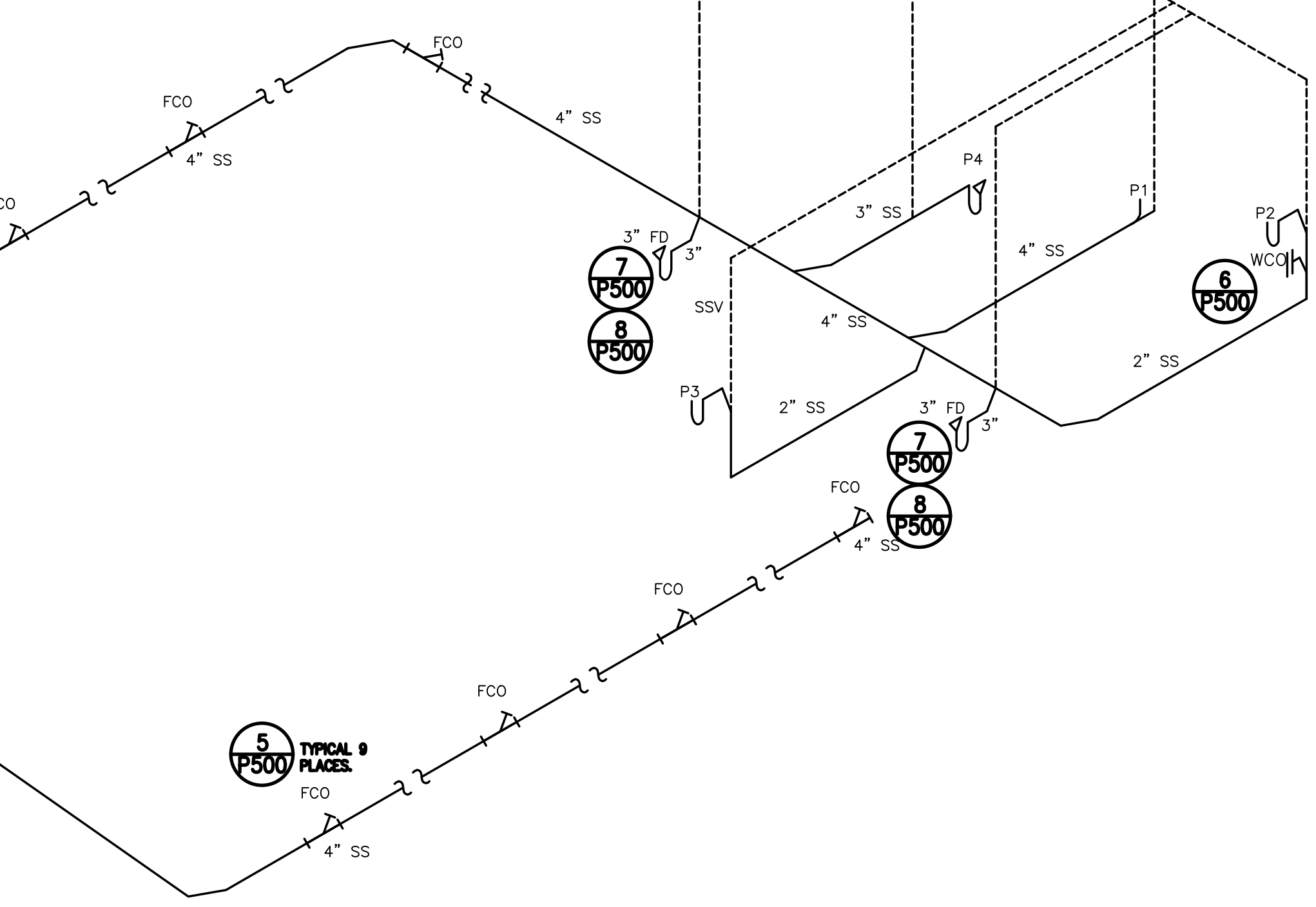


1 DOMESTIC WATER RISER
Scale: N.T.S.

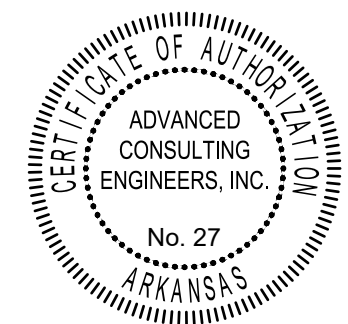
NOTE:
THE OVER ALL LENGTH OF PIPE USED TO CALCULATE PIPE SIZE IS 175 MULTIPLIED BY 1.25 FOR TURNS AND ELBOWS TO GIVE A TOTAL DEVELOPED LENGTH OF 220 FEET. THE TABLE USED TO SIZE THE GAS PIPING IS TABLE 402.4(2) OF THE INTERNATIONAL FUEL GAS CODE. TOTAL MBH OF THIS PROJECT IS 44 MBH.



2 NATURAL GAS RISER
Scale: N.T.S.



3 SANITARY RISER
Scale: N.T.S.



PRIOR TO BID/START OF 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 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 CONTRACTOR'S OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOWER 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.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
ACEI@ADVENGINEERS.COM

PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854

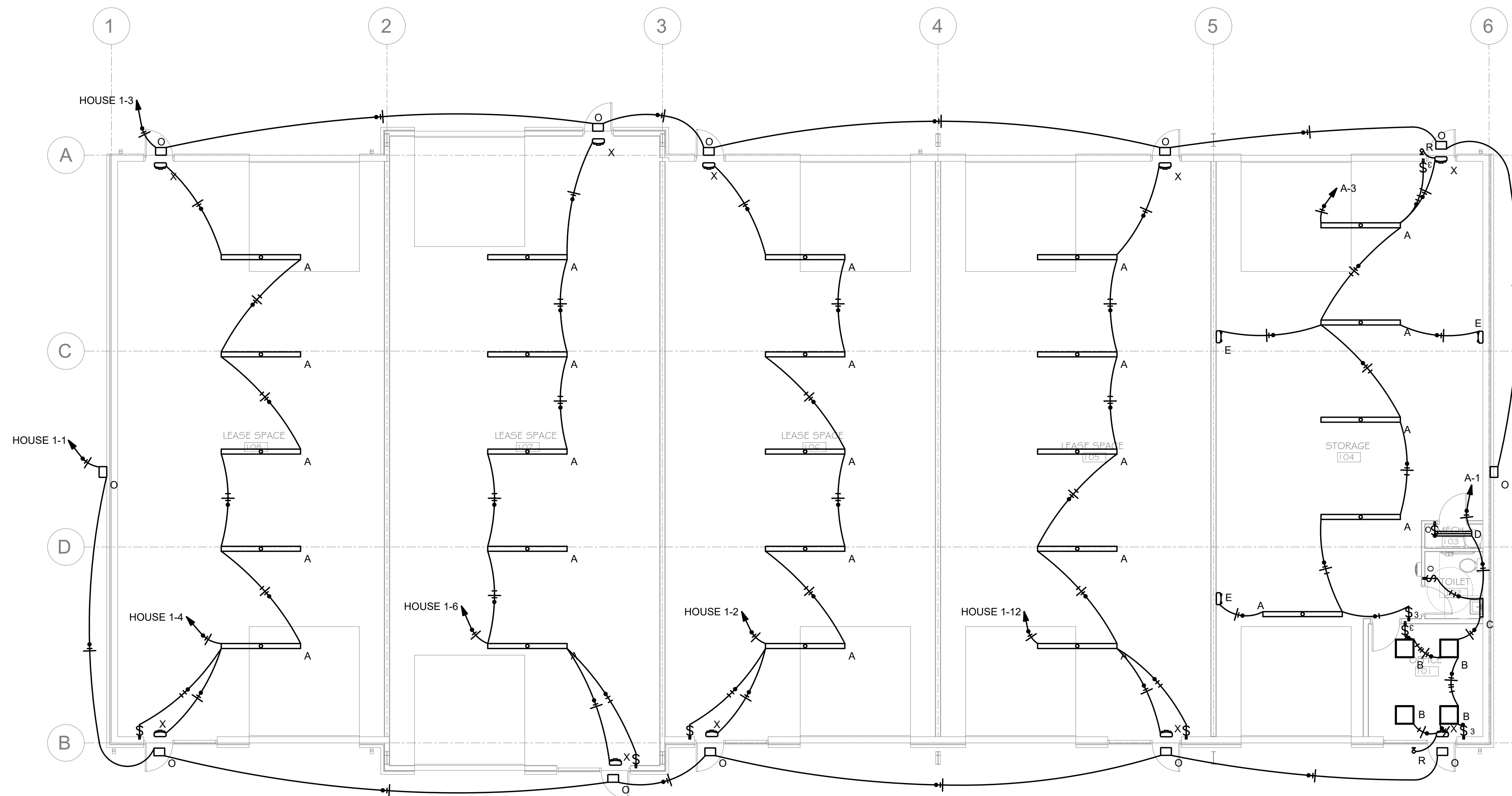
Revision Schedule	
Rev. #	Description

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2165 WORTH LANE
SPRINGDALE, ARKANSAS

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

DATE	DRAWN BY
06/01/22	
PROJECT #	CHECKED BY
2169	
SHEET	
P-600	

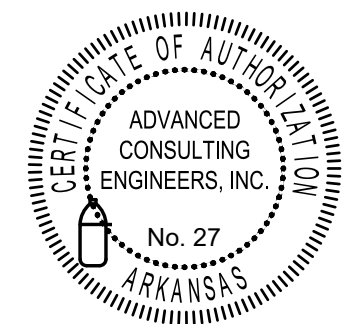
are protected by Copyright. Use or reproduction is prohibited without written consent.



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

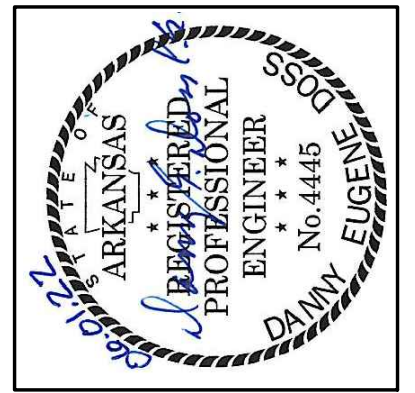
SWITCH SCHEDULE	
CALLOUT	SYMBOL
Generic Switch	\$
Occupancy Switch	\$ _o
Threeway Switch	\$ ₃

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	
B		(1)	CEILING	Lithonia Lighting, 2GTL2 40L A12125 LP840	33.61	120V 1P 2W	
C		(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		(2) TWO 3.3-WATT LED, ELP L372	WALL	Lithonia Lighting, ELM4L	5	120V 1P 2W	
O		(1) LED, NICHIA 219B 4000K	WALL	Lithonia Lighting, DSXW2 LED 20C 700 40K T2M 120 PE DBLXD	47	120V 1P 2W	
R		(1)	WALL	Lithonia Lighting, ERE B T RD WP	1.6	MULTIPLE	
SL		(1)	POLE	Lithonia Lighting, RSX3 LED P4 40K R4 120 AASP PE CE34 DBLXD	311.92	120V 1P 2W	SEE CIVIL FOR LOCATION
X		(2) TWO 1.5-WATT LED ASSEMBLY, ELP L275	WALL	Lithonia Lighting, LHQM LED	3	120V 1P 2W	



PRIOR TO BID/START OF 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 ARCHITECT 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 ALL LOWER 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.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
ACEI@ADVENGINEERS.COM

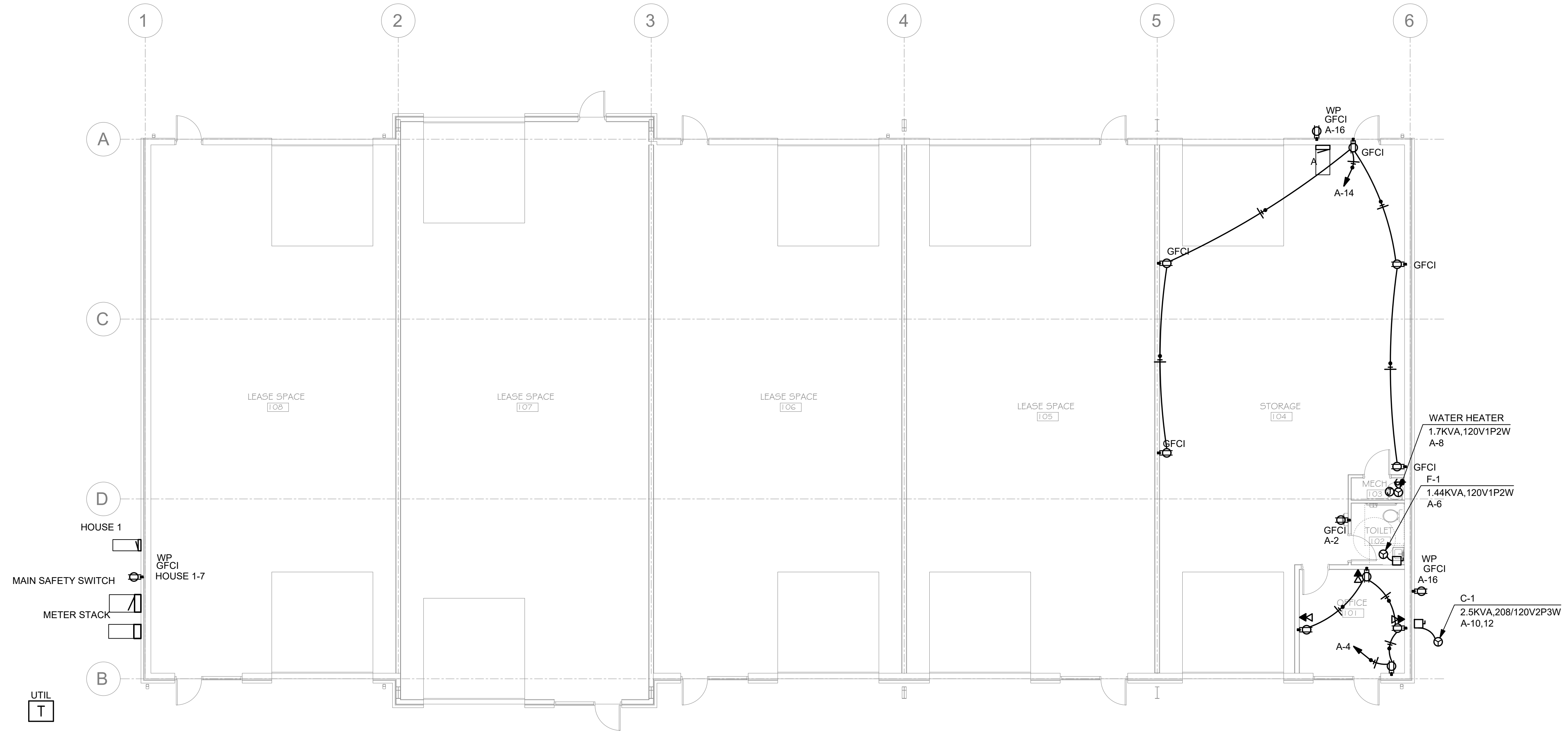


KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

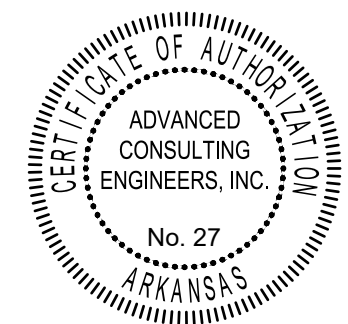
Revision Schedule	
Rev. #	Date

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2165 WORTH LANE
SPRINGDALE, ARKANSAS
MTNWA INVESTMENTS, LLC
1457 E. ROBINSON AVE.
SPRINGDALE, AR 72764

DATE: 06/01/22
PROJECT #: 2169
DRAWN BY:
CHECKED BY:
SHEET
E-100



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



PRIOR TO BID/START OF 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 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 ALL LOWER 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.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
ACEI@ADVENGINEERS.COM



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH: 479.444.6066 FAX: 479.444.1445

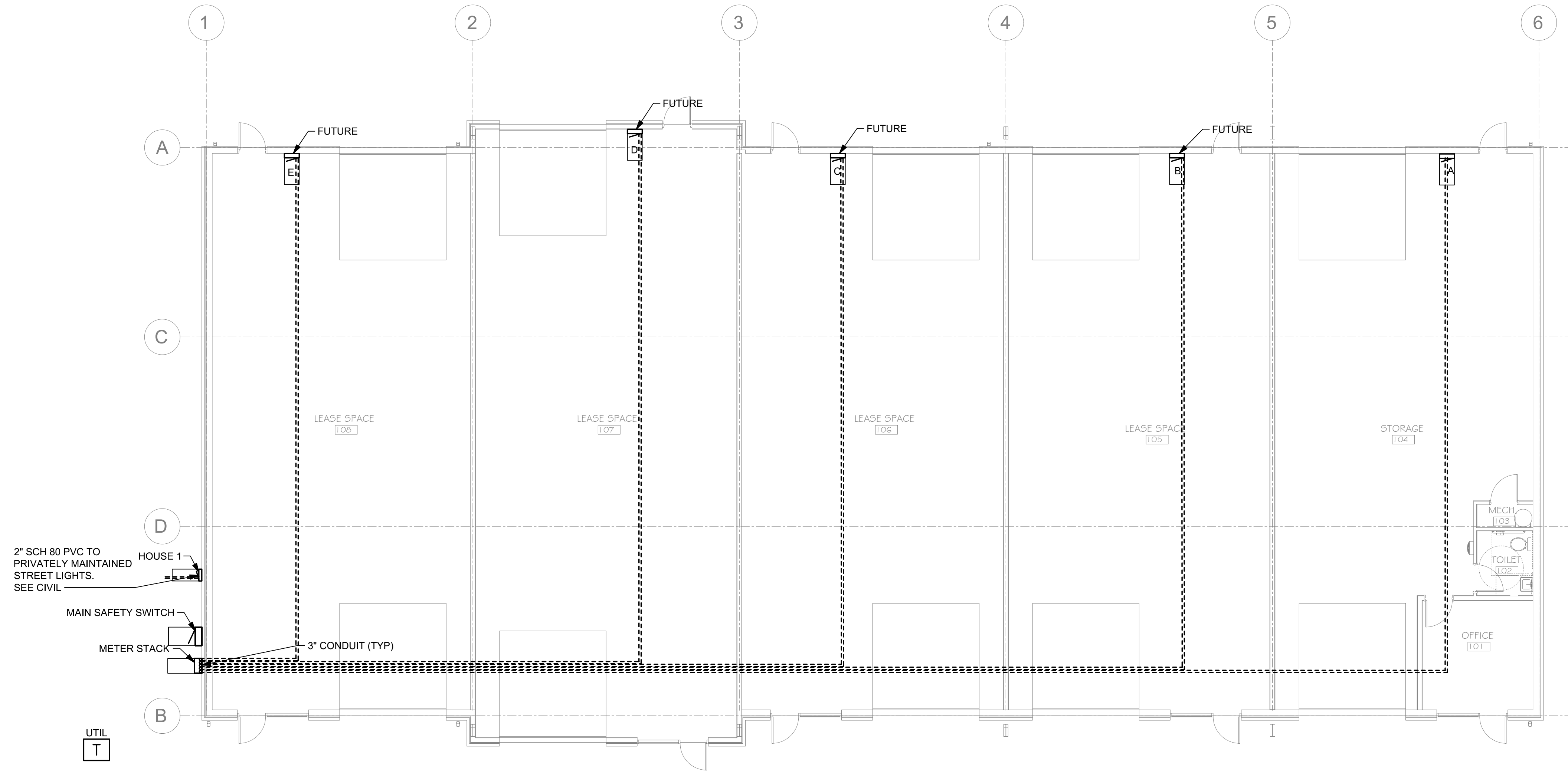
Revision	Schedule	Description
Rev. #	Date	

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2165 WORTH LANE
SPRINGDALE, ARKANSAS

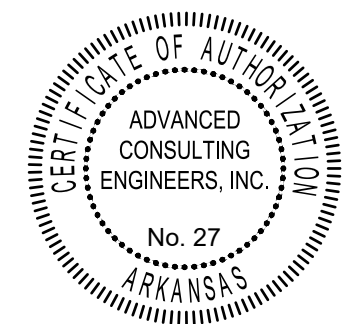
MTNWA INVESTMENTS, LLC
1457 E. ROBINSON AVE.
SPRINGDALE, AR 72764

DATE: 06/01/22
PROJECT #: 2169
DRAWN BY:
CHECKED BY:

SHEET
E-101



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



PRIOR TO BID/START OF 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 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 ALL LOWER 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.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
ACEI@ADVENGINEERS.COM

PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854



KEY ARCHITECTURE INC.
P.O. BOX 748 FAYETTEVILLE, ARKANSAS 72702
PH. 479.444.6066 FAX. 479.444.1445

Revision	Schedule	Description
Rev. #	Date	

NEW OFFICE WAREHOUSE 5-BAY BLDG.
2165 WORTH LANE
SPRINGDALE, ARKANSAS

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

DATE	DRAWN BY
06/01/22	
PROJECT #	CHECKED BY
2169	

SHEET
E-400

