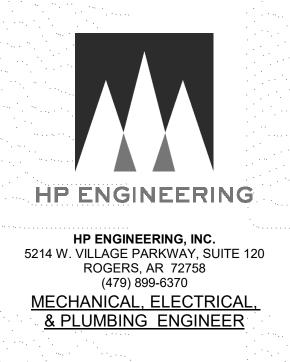
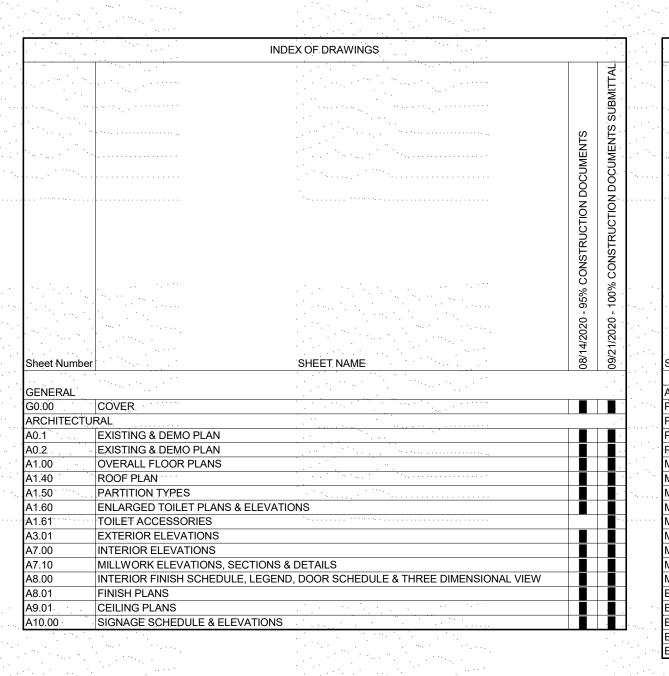
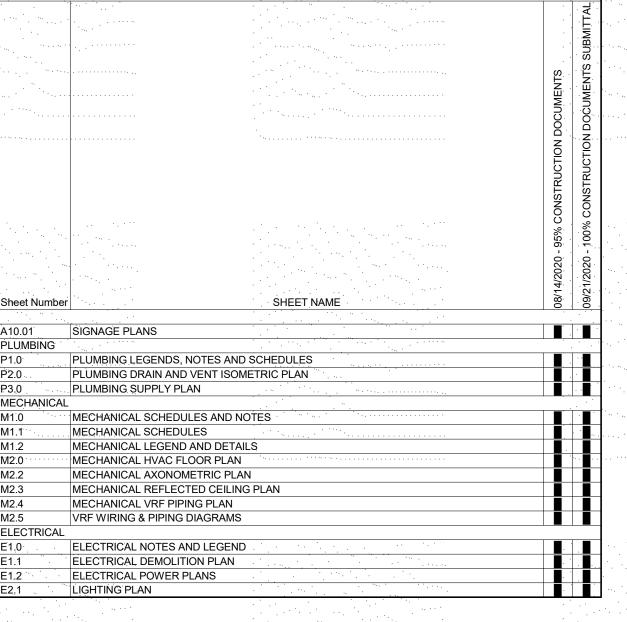
ENVIRONMENTAL HEALTH-MARKOMA BUILDING

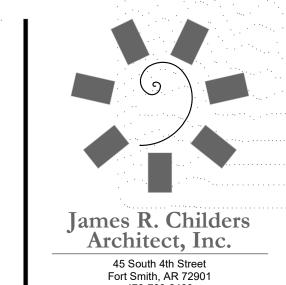
100% CONSTRUCTION DOCUMENTS
PHASE 1

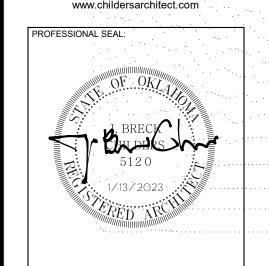


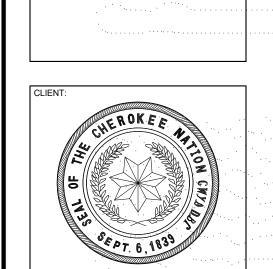












WIRONMENTAL HEALTH - MARKOMA BUILDING
TAHLEQUAH, OKLAHOMA

1		
	KEY PLAN:	

PROJECT PHASE:

100% CONSTRUCTION
DOCUMENTS

DATE REVISIONS
DESCRIPTION

REVISIONS
DATE DESCRIPTION

DATE: JOB NUMBER: 09/21/2020 18-01.14

SHEET NUMBER: G0.00

COVER

PART OF THE NEW CONSTRUCTION SCOPE OF WORK. REMOVE EXISTING WINDOW UNITS AND DELIVER TO OWNER SPECIFIED LOCATION. REMOVE AND DISGARD ALL CEILING, FLOOR AND GROUND MOUNTED HVAC UNITS/COMPONENTS.
REPAIR CEILING GRID AS REQUIRED FOR FINISH APPEARANCE. 4. INTERIOR WALLS, REMOVE ALL EXISTING ANCHORS, NAILS, SCREWS ETC. AND REPAIR WALLS. RESTROOM RESTROOM CORRIDOR 109 113C TRAINING/ CONFERENCE OFFICE 101 ROOM OFFICE/ SMALL ADMINISTRATION RESTROOM __113B_____ **02** DEMO CEILING PLAN - LEVEL 01

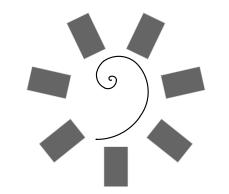
1/8" = 1'-0" DEMO EXISTING MILLWORK AND SINK WOMENS MEN'S RESTROOM RESTROOM ... 151 SF 391 SF DEMO PORTION OF CMU WALL 186 SF DOOR TO BE REUSED -CORRIDOR 629 SF LARGE TRAINING/ CONFERENCE ROOM 613 SF 71 SF OFFICE 200 SF 212 SF RESTROOM CLERICAL/ ADMINISTRATION 550 SF | 51 \$F b d ENTRY 234 SF OFFICE/ SMALL DEMO EXISTING AS NEEDED TO ALLOW FOR MAX 1:12 SLOPE RAMP DEMO ENTRANCE STEP DEMO EXISTING AS NEEDED TO EXISTING PATIO TO REMAIN ALLOW FOR MAX 1:12 SLOPE RAMP

GENERAL DEMOLITION NOTES

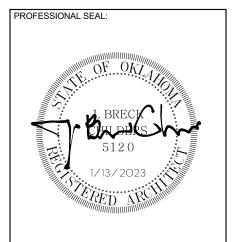
- PHASE 1 SITE DEMOLITION NOTES: 1. TRIM ALL TREES/LIMBS AWAY FROM BUILDING MINIMUM OF 10'. REMOVE DEAD MAPLE TREE AT NORTHEAST CORNER OF BUILDING.
- PHASE 1 BUILDING DEMOLITION / MODIFICATION NOTES:

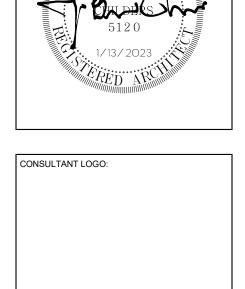
3. REMOVE DEAD MAPLE TREEE AT SOUTHEAST CORNER OF BUILDING/PARKING LOT.

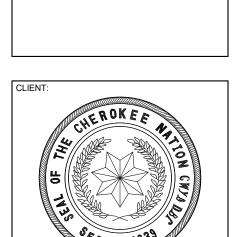
- CONTRACTOR TO COORDINATE DEMOLITION WORK SEQUENCE. DEMOLITION DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BUILDING AND SITE CONDITIONS. • DEMOLITION DRAWINGS GENERALLY INDICATE EXISTING SCOPE OF WORK TO BE DEMOLISHED AND ARE NOT INTENDED TO LIMIT FOR FULLY DEFINE THE SCOPE OF WORK TO BE REMOVED IN ORDER TO ACCOMPLISH SCOPE OF NEW CONSTRUCTION. WHERE THESE CONDITIONS OCCUR OUTSIDE OF THE DEMOLITION LIMITS, AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AS CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONSTRUCTION AND CONSTRUCTION DOCUMENTS. WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES OR OTHER WALL MOUNTED ITEMS ARE SCHEDULED TO BE SALVAGED, REFERENCE CONSTRUCTION DRAWINGS FOR NEW LOCATIONS OR COORDINATE WITH OWNER FOR STORAGE LOCATION. CONSTRUCTION DRAWINGS FOR NEW LOCATIONS OR COORDINATE WITH OWNER FOR STORAGE LOCATION.
 PARTITIONS SCHEDULED TO BE REMOVED; DEMOLITION SHOULD INCLUDE MISCELLANEOUS BRACING, TRACK, ETC. TO BOTTOM OF STRUCTURE.
 CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS UNOBSTRUCTED, ILLUMINATED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.
 CONTRACTOR TO CLEAN AREAS ADJACENT TO DEMOLITION AREA OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITIONS OPERATIONS.
 PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
 TRANSPORT DEMOLISHED MATERIALS AND LEGALLY DISPOSE OF THEM.

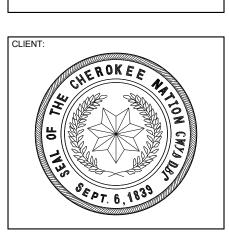


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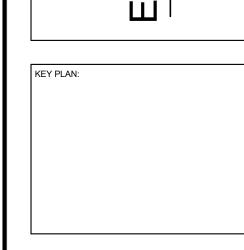












PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS	
	100% CONSTRUCTION

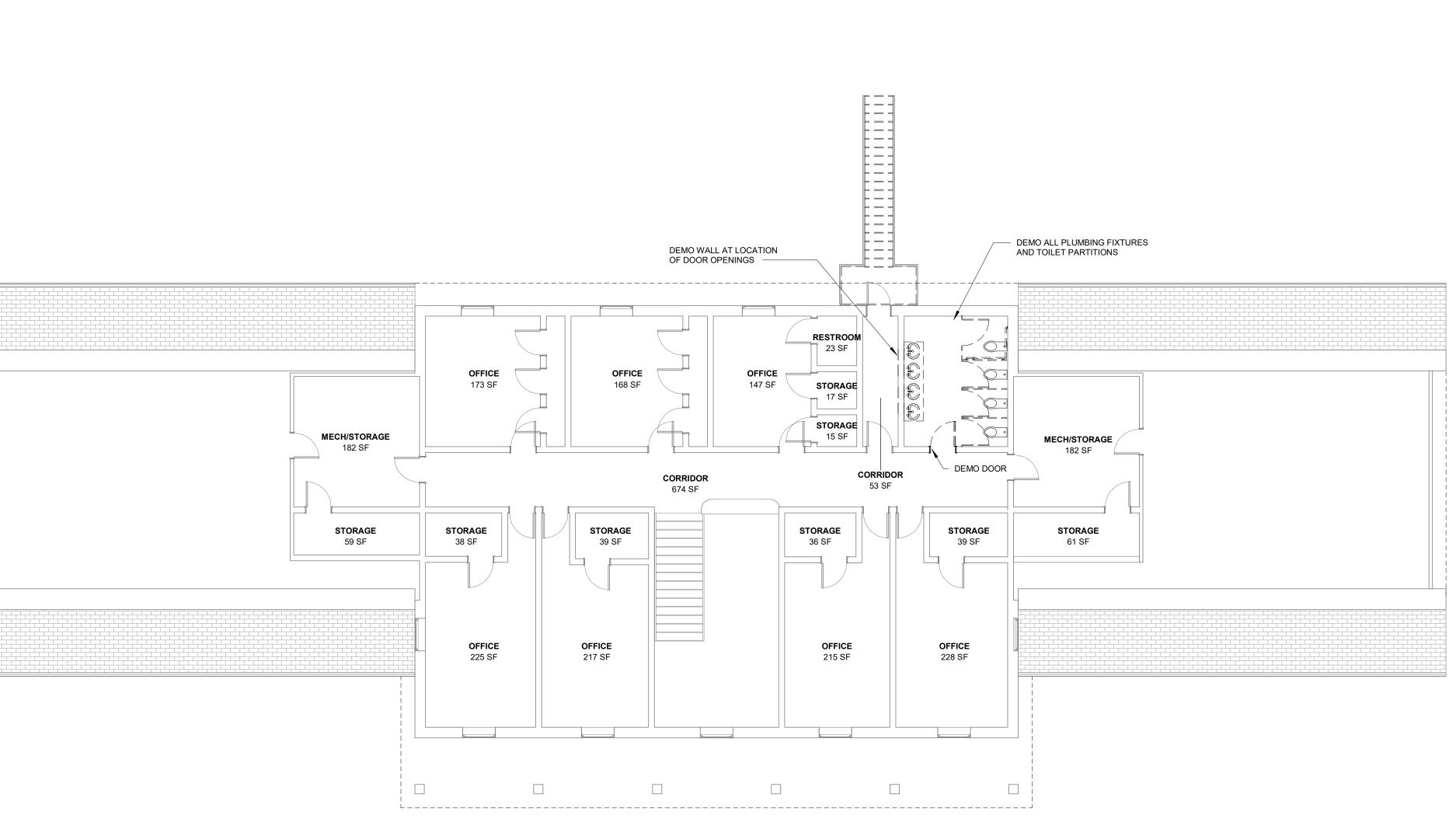
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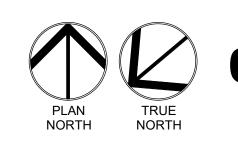
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#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
09/21/2020	18-01.14
SHEET NUMBER:	

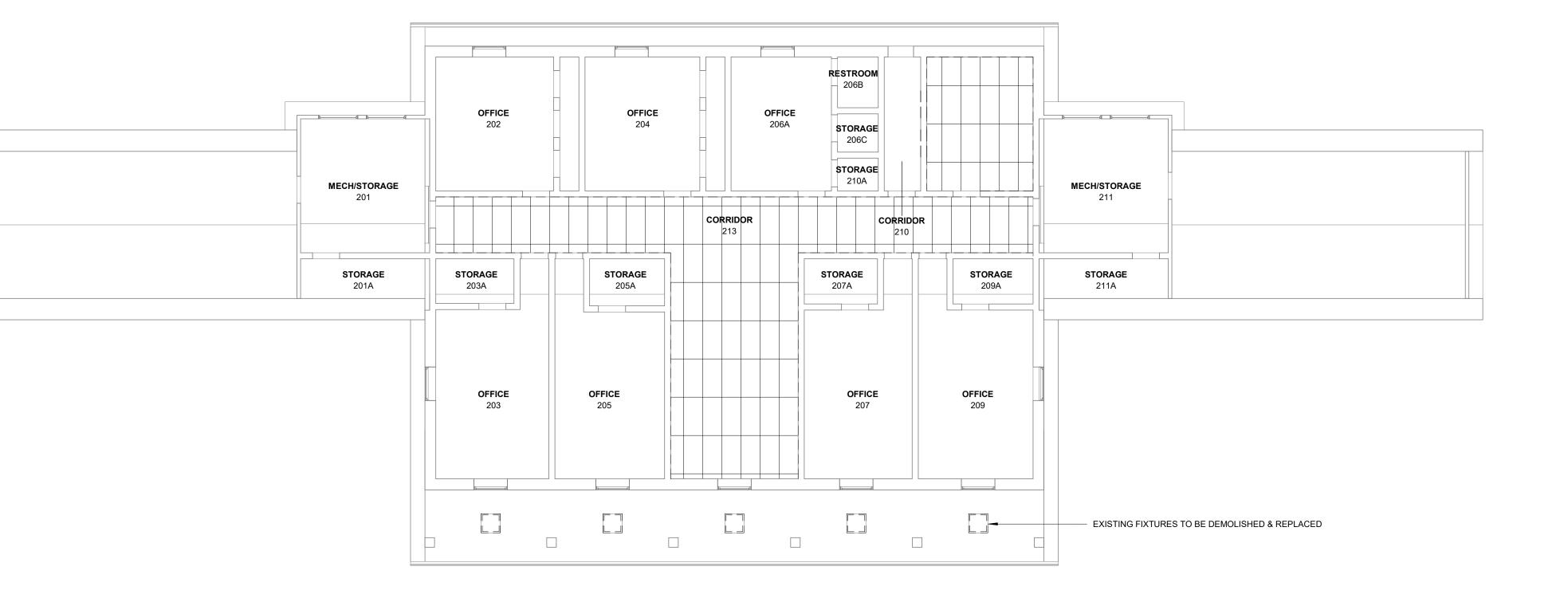
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EXISTING & DEMO PLAN





DEMO CEILING PLAN - LEVEL 021/8" = 1'-0"



GENERAL DEMOLITION NOTES

CONTRACTOR TO COORDINATE DEMOLITION WORK SEQUENCE.

PART OF THE NEW CONSTRUCTION SCOPE OF WORK.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BUILDING AND SITE CONDITIONS.

TRANSPORT DEMOLISHED MATERIALS AND LEGALLY DISPOSE OF THEM.

DEMOLITION DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING DRAWINGS AND SITE OBSERVATIONS.

FOR FULLY DEFINE THE SCOPE OF WORK TO BE REMOVED IN ORDER TO ACCOMPLISH SCOPE OF NEW CONSTRUCTION. WHERE THESE CONDITIONS OCCUR OUTSIDE OF THE DEMOLITION LIMITS, AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AS

 CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONSTRUCTION AND CONSTRUCTION DOCUMENTS. WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES OR OTHER WALL MOUNTED ITEMS ARE SCHEDULED TO BE SALVAGED, REFERENCE CONSTRUCTION DRAWINGS FOR NEW LOCATIONS OR COORDINATE WITH OWNER FOR STORAGE LOCATION.

CONSTRUCTION DRAWINGS FOR NEW LOCATIONS OR COORDINATE WITH OWNER FOR STORAGE LOCATION.
 PARTITIONS SCHEDULED TO BE REMOVED; DEMOLITION SHOULD INCLUDE MISCELLANEOUS BRACING, TRACK, ETC. TO BOTTOM OF STRUCTURE.
 CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITS UNOBSTRUCTED, ILLUMINATED AND PROTECTED FROM CONSTRUCTION ACTIVITIES.
 CONTRACTOR TO CLEAN AREAS ADJACENT TO DEMOLITION AREA OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITIONS OPERATIONS.
 PROMPTLY DISPOSICIONED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.

DEMOLITION DRAWINGS GENERALLY INDICATE EXISTING SCOPE OF WORK TO BE DEMOLISHED AND ARE NOT INTENDED TO LIMIT.

PHASE 1 SITE DEMOLITION NOTES:

1. TRIM ALL TREES/LIMBS AWAY FROM BUILDING MINIMUM OF 10'.

PHASE 1 BUILDING DEMOLITION / MODIFICATION NOTES:

REMOVE DEAD MAPLE TREE AT NORTHEAST CORNER OF BUILDING.

3. REMOVE DEAD MAPLE TREEE AT SOUTHEAST CORNER OF BUILDING/PARKING LOT.

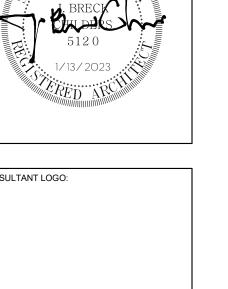
REMOVE EXISTING WINDOW UNITS AND DELIVER TO OWNER SPECIFIED LOCATION.

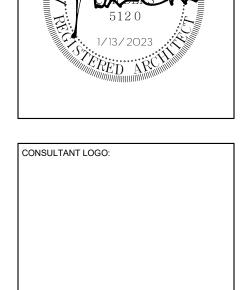
REMOVE AND DISGARD ALL CEILING, FLOOR AND GROUND MOUNTED HVAC UNITS/COMPONENTS.
REPAIR CEILING GRID AS REQUIRED FOR FINISH APPEARANCE.

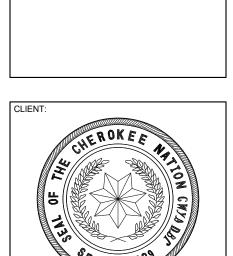
4. INTERIOR WALLS, REMOVE ALL EXISTING ANCHORS, NAILS, SCREWS ETC. AND REPAIR WALLS.

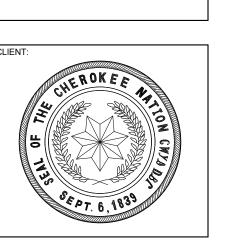


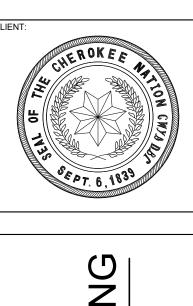












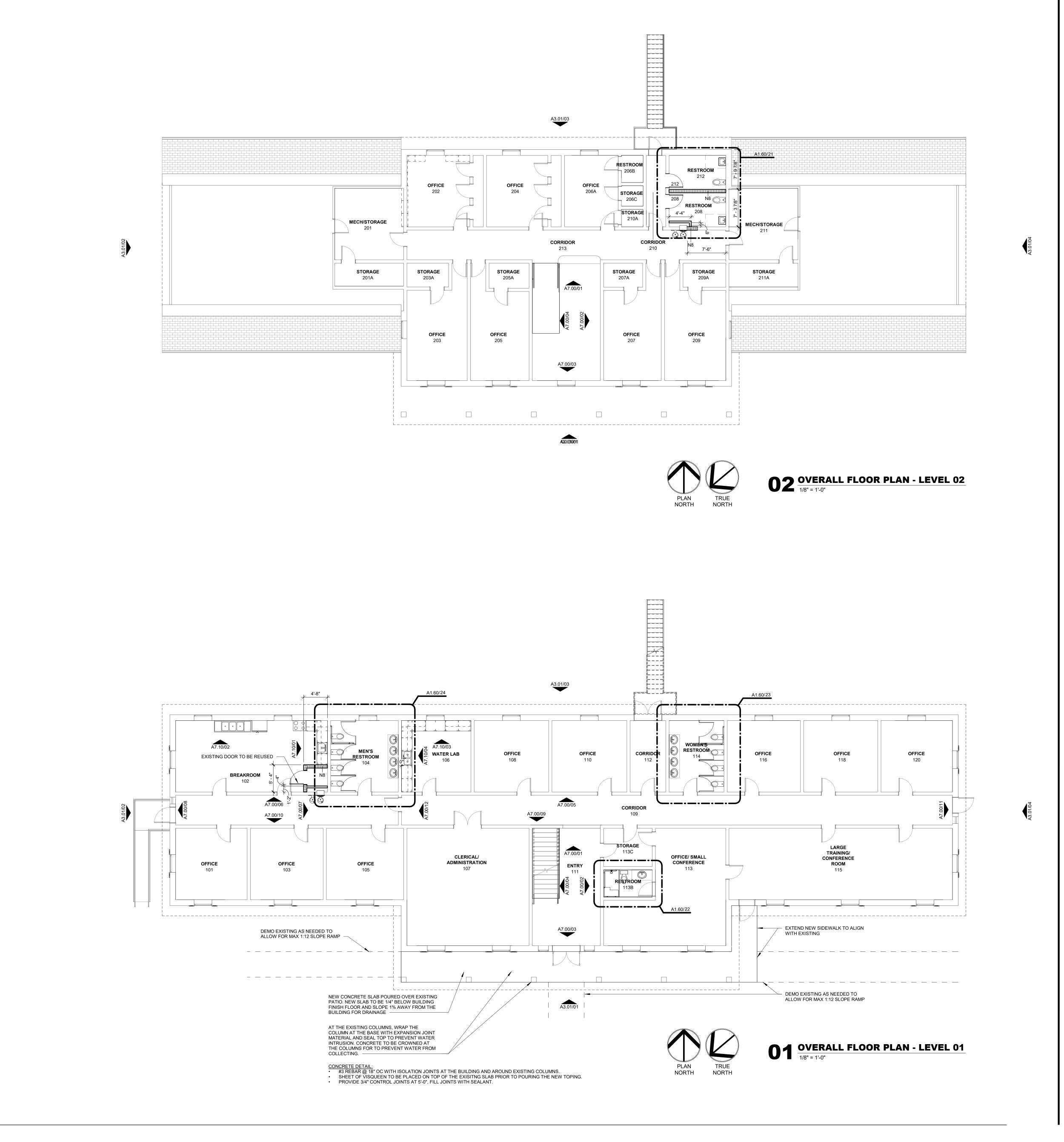
NATION
I - MARKOMA I

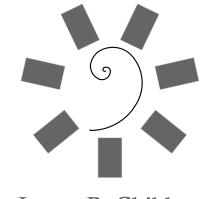
CHEROKEE ENVIRONMENTAL HEALTH

PROJECT PHASE:

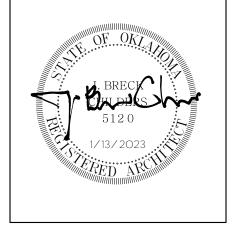
100% CONSTRUCTION DOCUMENTS

EXISTING & DEMO PLAN



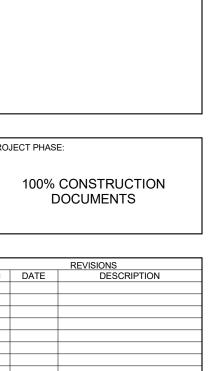


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CONSULTANT LOGO:





CHEROKEE ENVIRONMENTAL HEALTH

18-01.14 09/21/2020

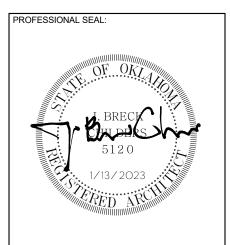
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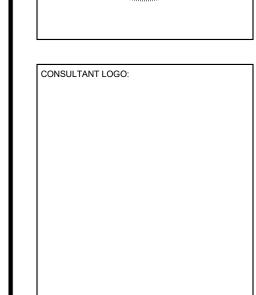
OVERALL FLOOR PLANS

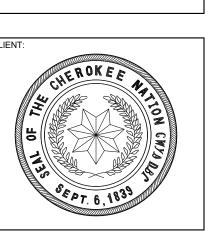
 ASPHALT SHINGLES - ASPHALT SHINGLES

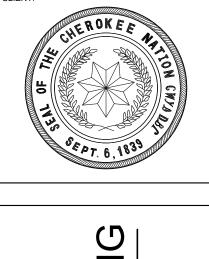












BUILDIN CHEROKEE NATION

AL HEALTH - MARKOMA E

TAHLEQUAH, OKLAHOMA CHEROKEE ENVIRONMENTAL HEALTH

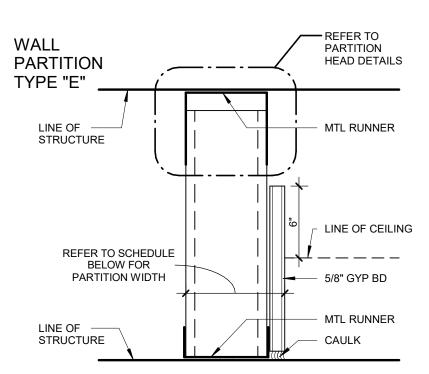
PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS

09/21/2020 SHEET NUMBER:

A1.40

ROOF PLAN

FOUR HOUR



	,			-11141		
FLOOR PLAN DESIGNATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS CLASS	REMARKS
E2	2 1/2"	3 1/8"	NON- RATED	N/A	N/A	
E3	3 5/8"	4 1/4"	NON- RATED	N/A	N/A	
E6	6"	6 5/8"	NON- RATED	N/A	N/A	

LEAD LINED:

SECURITY:

1. PARTITIONS ARE DISTINGUISHED ON FLOOR PLANS BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A COMBINATION OF BOTH DESIGNATIONS.

EXAMPLE

COMMENTS

EXTEND UP TO 7'-0" A.F.F.

EXTEND FULL HEIGHT

2. THERE ARE TWO TYPES OF SYMBOL DESIGNATIONS, ONE FOR PARTITONS NOT REQUIRING SOUND ATTENUATION AND ANOTHER FOR PARTITIONS WHICH REQUIRE SOUND ATTENUATION. REFER TO PARTITION MATRICES FOR SOUND ATTENUATION BLANKET (SAB) MINIMUM THICKNESS FOR STC INDICATED.

RESPECTIVE	SPACES. IF MULTI	PLE BARRIERS ARE INCORI	DE OF THE PARTITION ADJACENT TO THEIR PORATED INTO THE SAME PARTITION, THEN HE FOLLOWING EXAMPLE: (SLP)
4. WALL PARTI	TION SIZE MATRIX:		
NO.	СМИ	SHAFTWALL	METAL STUDS
1	-	-	1 5/8"
2	-	2 1/2"	2 1/2"
3	-	-	3 5/8"
4	-	4"	-
6	5 5/8"	6"	6"

5. THE GRAPHIC DESIGNATION IS INCORPORATED FOR PARTITIONS REQUIRED TO BE SMOKE RESISTANT, FIRE RESISTANT, OR BOTH FIRE AND SMOKE RESISTANT. REFER TO NOTE 16.

7. ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLAN.

6. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT

INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.

8. FIRE CAULK:
1. FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE/SMOKE FIRE RESISTANT FILL IN CONJUNCTION WITH AN APPROPRIATE RATED FIRE/SMOKE FIRE STOPPING SYSTEM. 2. NON-RATED PARTITIONS AND NON-RATED SMOKE RESISTANT PARTITIONS SHALL USE

ACOUSTICAL SEALANT. 9. INSULATION: - HEAD CONDITIONS AT FLOOR/ROOF DECK

1. FIRE RESISTANCE RATED PARTITIONS SHALL USE MINERAL WOOL INSULATION. 2. NON-RATED PARTITIONS REQUIRING SOUND ATTENUATION SHALL USE SOUND ATTENUATION 3. PROVIDE FULL THICKNESS INSULATION INSIDE ALL STUD BOX BEAMS AND HEADERS WHICH OCCUR IN WALLS WITH SOUND ATTENUATION.

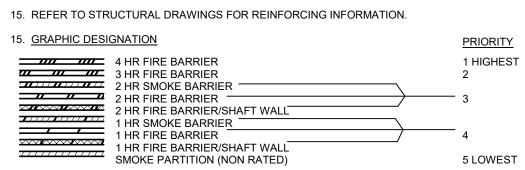
10. REFER TO SPECIFICATIONS FOR MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES. 11. FOR PARTITIONS INDICATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO

FULL HEIGHT OF PARTITION UNLESS OTHERWISE INDICATED. FLOOR TRACK TO BE SET IN A CONT BED 12. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.

13. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS

14. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND SMOKE RESISTANT RATING SHALLBE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE

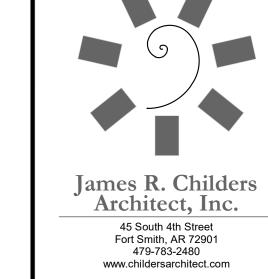
WALL AND 6' - 0" OC MAX EACH SIDE.

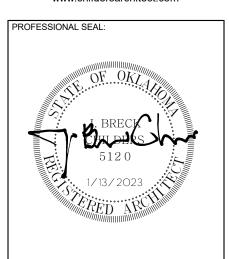


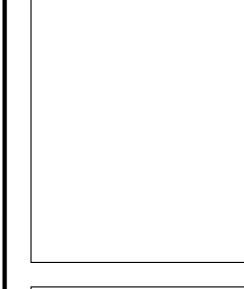
17. DO NOT APPLY BULLNOSE BLOCK AT CORNER GUARD LOCATIONS.

18. MASONRY REINFORCEMENT: REFERENCE STRUCTURAL DRAWINGS.

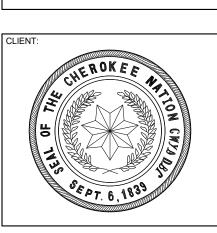
19. HW (HEAD OF WALL) DETAILS DO NOT ALTER PARTITION TYPES NOTED ON PLANS.







CONSULTANT LOGO:



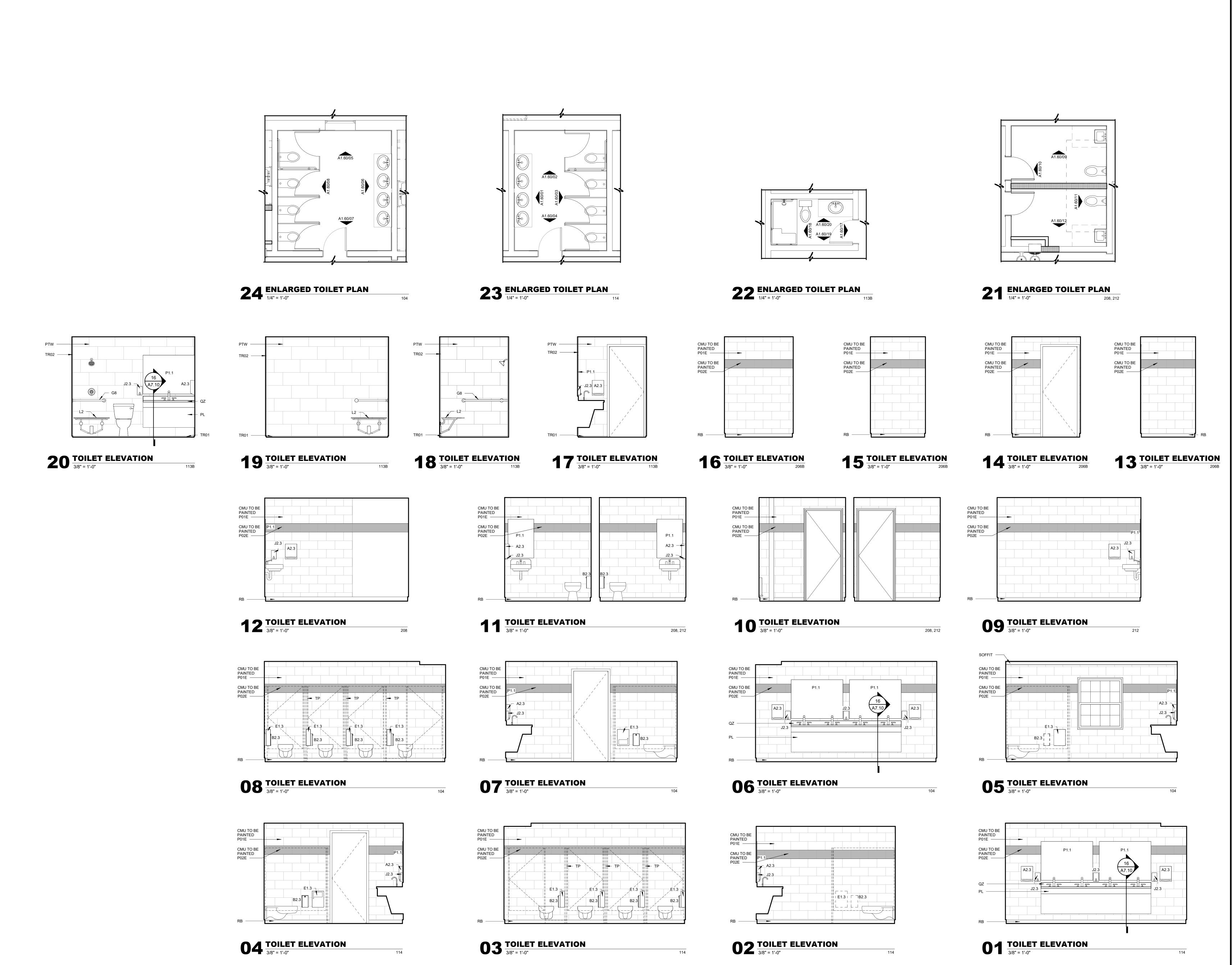


PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS

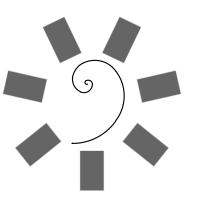
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PARTITION TYPES



0 4 4 1/8" = 1'-0"



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PROFESSIONAL SEAL:

CONSULTANT LOGO:

BUILDIN

CHEROKEE NATION
AL HEALTH - MARKOMA E
TAHLEQUAH, OKLAHOMA

CHEROKEE ENVIRONMENTAL HEALTH

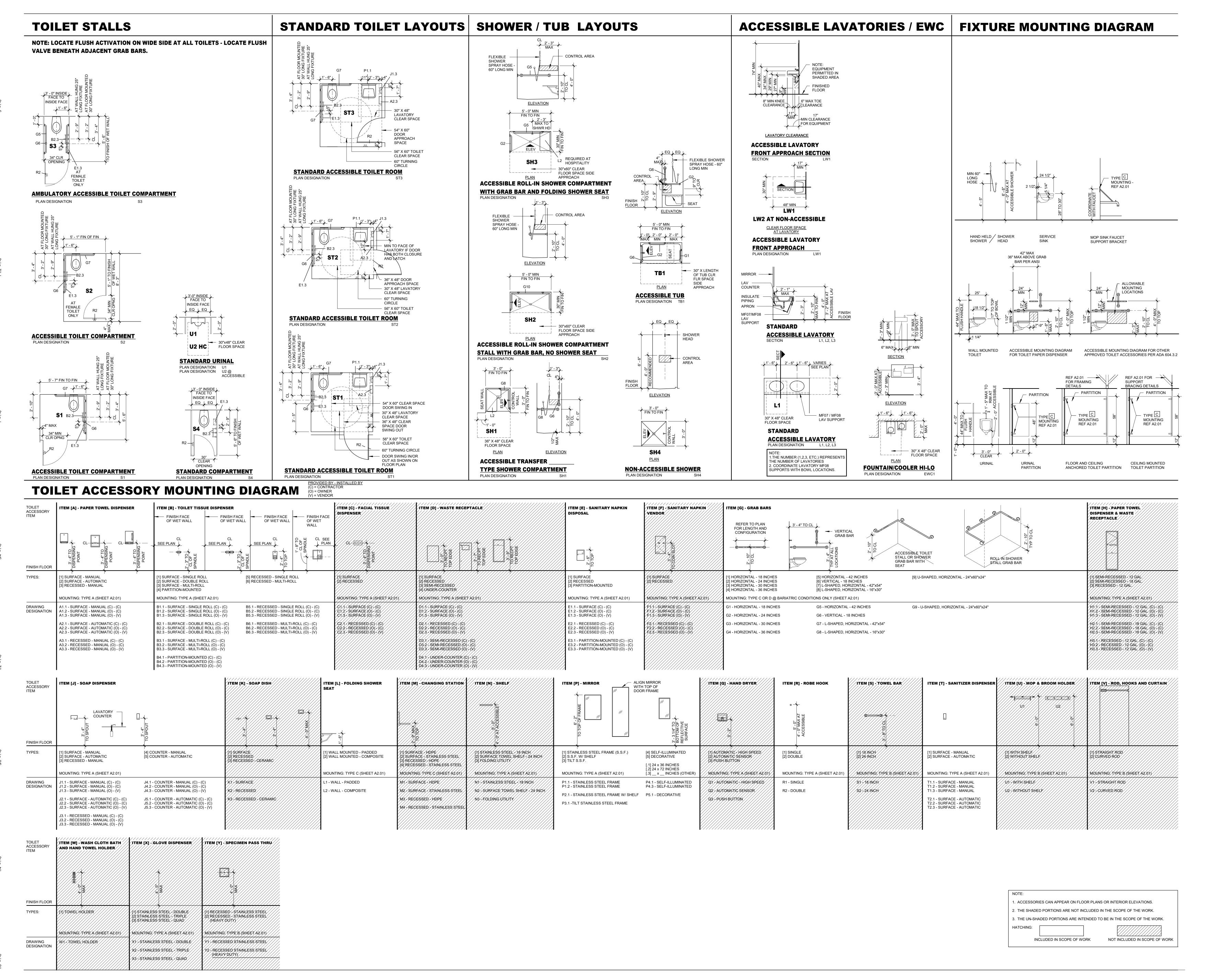
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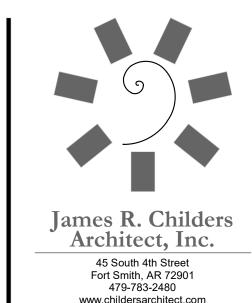
100% CONSTRUCTION DOCUMENTS

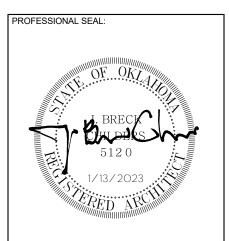
09/21/2020

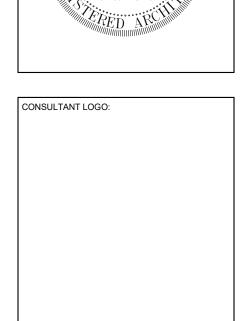
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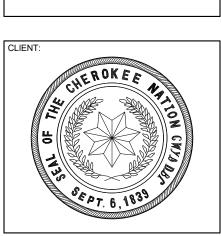
ENLARGED TOILET PLANS & ELEVATIONS

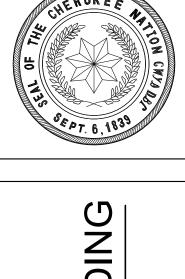












JATION MARKOMA ENVIRONMEN

PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS

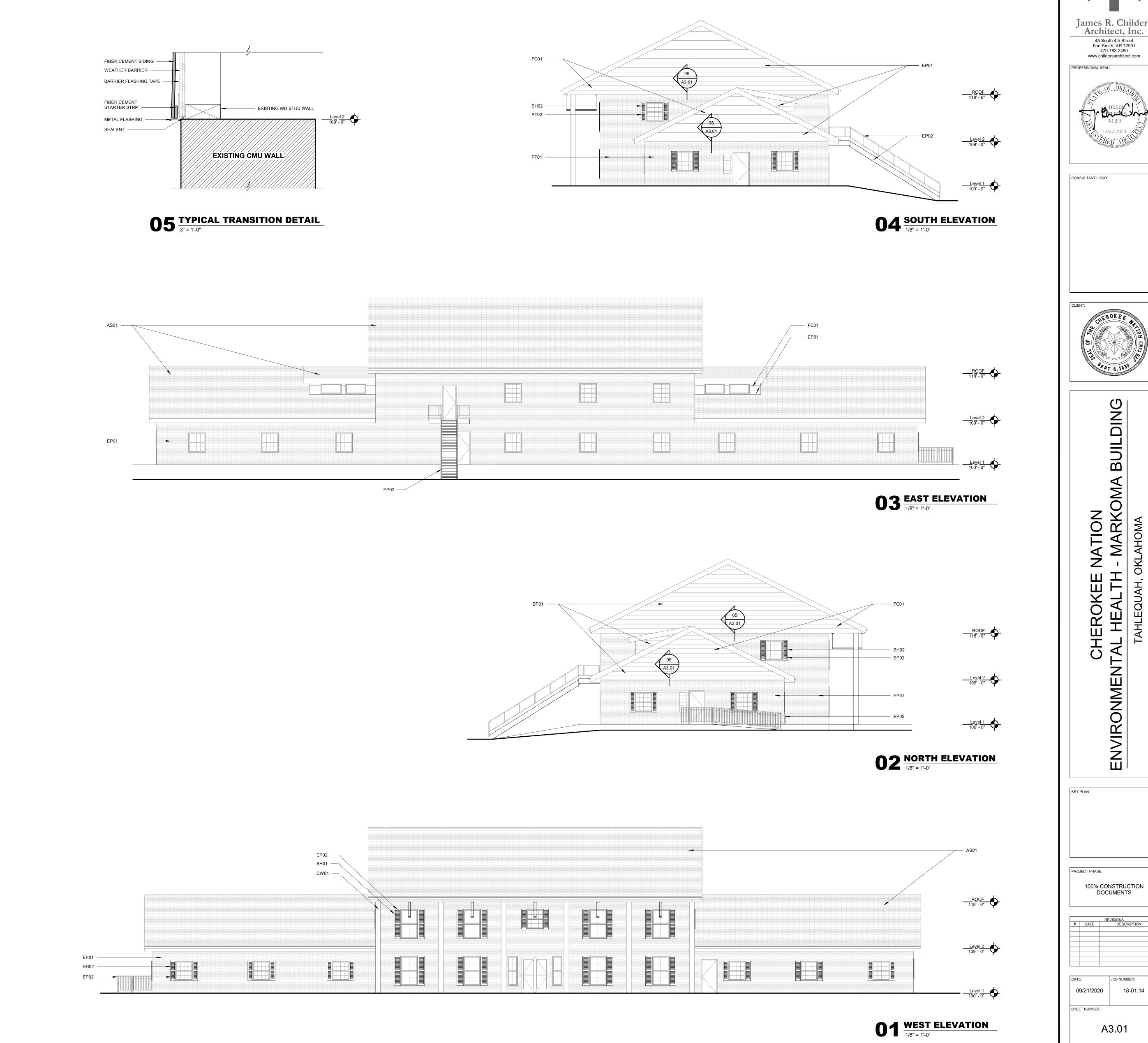
REVISIONS
DESCRIPTION

18-01.14 09/21/2020

SHEET NUMBER:

A1.61

TOILET ACCESSORIES



EXTERIOR FINISH LEGEND

MANUFACTURER: JAMES HARDIE

TYPE: HARDIEPLANK LAP SIDING SIZE: MATCH EXISTING

MANUFACTURER: JAMES HARDIE TYPE: HARDIESOFFIT PANEL

FINISH: BEADED PORCH PANEL

MANUFACTURER: FYPON

MANUFACTURER: FYPON

MANUFACTURER: ATLAS TYPE: GLASSMASTER COLOR: PEWTER

TYPE: COLUM WRAP PRODUCT: CM #350

BRICK & FIBER CEMENT SIDING

SHUTTERS AND EXPOSED STEEL

EXTERIOR FINISH LEGEND

EXISTING BRICK TO BE PAINTED

NEW FIBER CEMENT SIDING

ASPHALT SHINGLES

COLOR: TO BE PAINTED EP02

MANUFACTURER: MELTON CLASSICS

MANUFACTURER: SHERWIN WILLIAMS

COLOR: PURE WHITE SW7005

MANUFACTURER: SHERWIN WILLIAMS

COLOR: SEALSKIN SW7675

PRODUCTS: FIRST COAT: S-W LOXON CONCRETE & MASONRY PRIMER, LX02W0050 SECOND COAT: S-W A-100 EXTERIOR LATEX SATIN, THIRD COAT: S-W A-100 EXTERIOR LATEX SATIN, A82W00151

PRODUCTS: FIRST COAT: S-W PREPRITE PROBLOCK
INTERIOR/ EXTERIOR LATEX PRIMER/ SEALER, B51W00620 SECOND COAT: S-W A-100 EXTERIOR LATEX SATIN, A82W00151 THIRD COAT: S-W A-100 EXTERIOR LATEX SATIN, A82W00151

SIZE: 12" X 48"

COLOR: TO BE PAINTED EP02

COLOR: TO BE PAINTED EP02

FINISH: SMOOTH, STAINED AND SEALED

STYLE: LOUVERED SHUTTER WITH CENTER RAIL

STYLE: LOUVERED SHUTTER WITH CENTER RAIL

FIBER CEMENT SIDING

FIBER CEMENT SOFFIT

ASPHALT SHINGLES

PAINT

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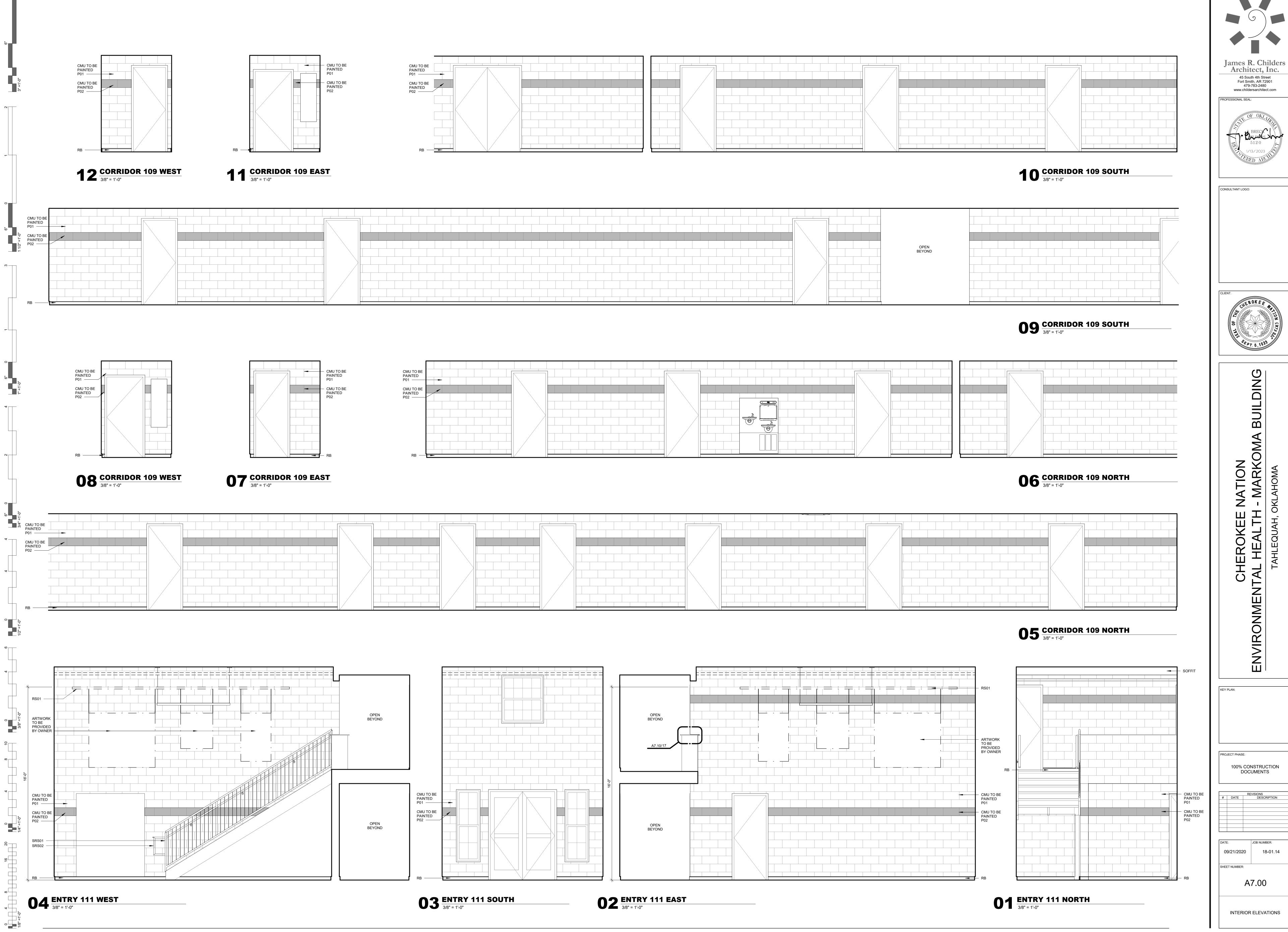
James R. Childers Architect, Inc. PROFESSIONAL SEAL:

CHEROKEE ENVIRONMENTAL HEALTH

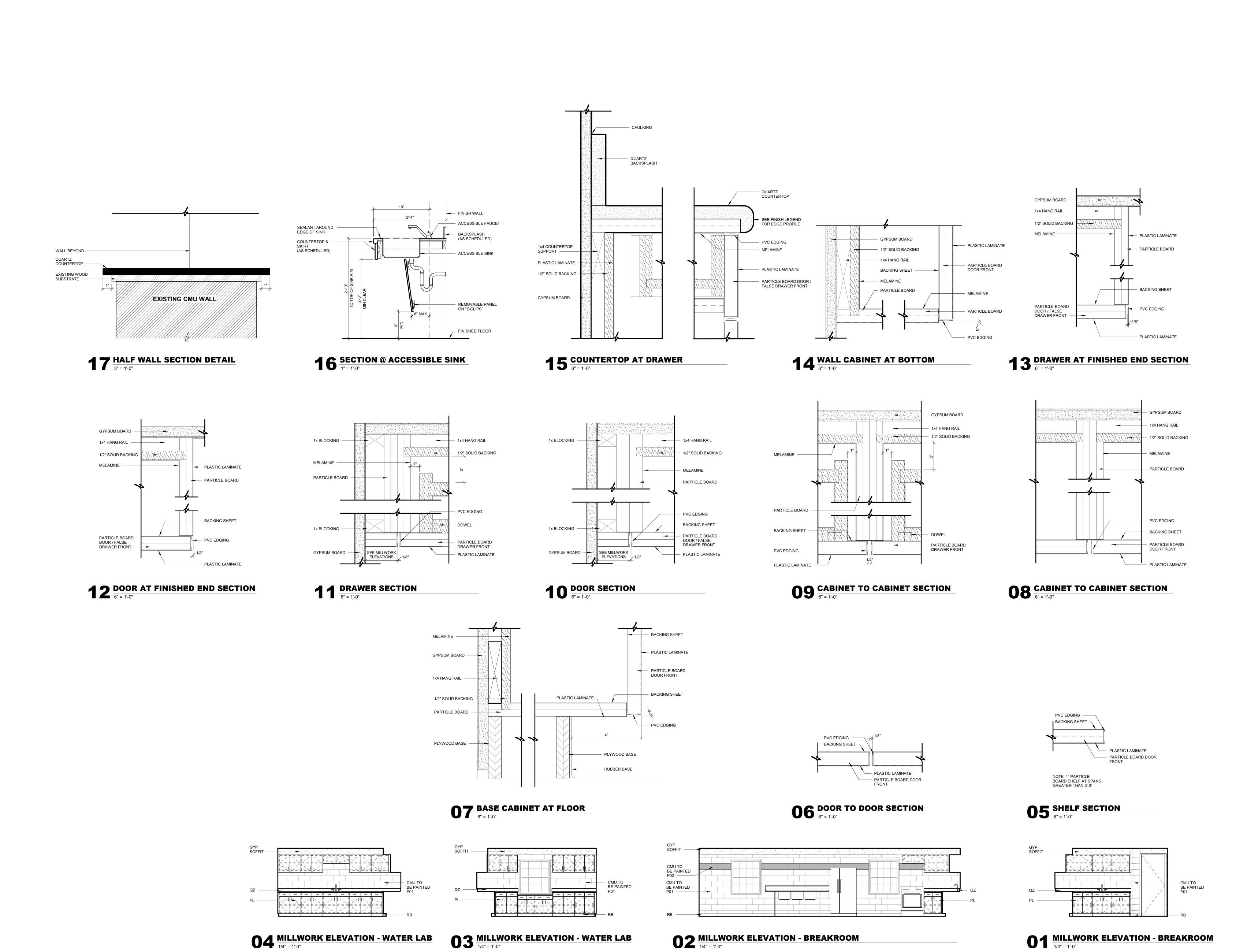
100% CONSTRUCTION DOCUMENTS

A3.01

EXTERIOR ELEVATIONS



A7.00 INTERIOR ELEVATIONS



A7.10 MILLWORK ELEVATIONS, SECTIONS & DETAILS

100% CONSTRUCTION DOCUMENTS

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PROFESSIONAL SEAL:

CONSULTANT LOGO:

BUIL

NATION I - MARKOMA

CHEROKEE ENVIRONMENTAL HEALTH

PROJECT PHASE:

09/21/2020 SHEET NUMBER:

	LOCATION		F	INSHES	FINSHES						
ROOM NUMBER											
2	ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARK					
101	OFFICE	VOT04 (VOT00	TDD		104						
101	OFFICE	VCT01 / VCT02	RB	CMU	SA (OVD	0					
102	BREAKROOM	VCT01 / VCT02	RB	CMU	SA / GYP	2					
103	OFFICE MENUS DESTROOM	VCT01 / VCT02	RB	CMU	SA / CVP	4.0.0					
104	MEN'S RESTROOM	VCT02	RB	CMU	SA / GYP	1 & 2					
105	OFFICE	VCT01 / VCT02	RB	CMU	SA / CVP	2					
106	WATER LAB	VCT01 / VCT02	RB	CMU	SA / GYP	2					
107	CLERICAL/ ADMINISTRATION	VCT01 / VCT02	RB	CMU	SA / CVP	2					
108	OFFICE	VCT01 / VCT02	RB	CMU	SA / GYP	2					
109	CORRIDOR	VCT01 / VCT02	RB	CMU	SA / CVP	1					
110 111	OFFICE ENTRY	VCT01 / VCT02 VCT01 / VCT02	RB	CMU	SA / GYP SA	1					
			RB			1					
11B	STAIR CORRIDOR	ST	RB	CMU	SA / GYP	4.0.0					
112	OFFICE/ SMALL CONFERENCE	VCT01 / VCT02 VCT01	RB RB	CMU	SA / GYP	1 & 2					
113											
13B	RESTROOM	PTF01 / PTF02	TR01	PTW	GYP						
13C	STORAGE WOMEN'S DESTROOM	VCT01	RB	CMU	SA / CVP	4.0.0					
114 115	WOMEN'S RESTROOM LARGE TRAINING/ CONFERENCE ROOM	VCT02 VCT01 / VCT02	RB RB	CMU	SA / GYP SA	1 & 2					
						0					
116	OFFICE	VCT01 / VCT02	RB	CMU	SA / GYP	2					
118 120	OFFICE OFFICE	VCT01 / VCT02 VCT01 / VCT02	RB RB	CMU	SA / GYP	2					
201	MECH/STORAGE	VCT017 VCT02	RB	CMU	SA / GYP SA	2					
	STORAGE	VCT01	RB	CMU	SA						
01A 202	OFFICE	VCT01	RB	CMU	SA						
	OFFICE	VCT01		CMU	SA						
203 :03A	STORAGE	VCT01	RB RB		SA						
204	OFFICE	VCT01	RB	CMU	SA						
204 205	OFFICE	VCT01	RB	CMU	SA						
205 :05A	STORAGE	VCT01	RB	CMU	SA						
06A	OFFICE	VCT01	RB	CMU	SA						
06B	RESTROOM	VCT02	RB	CMU	SA	1					
06C	STORAGE	VCT01	RB	CMU	SA						
207	OFFICE	VCT01	RB	CMU	SA						
207 207A	STORAGE	VCT01	RB	CMU	SA						
208	RESTROOM	VCT02	RB	CMU	SA	1					
200	OFFICE	VCT01	RB	CMU	SA	1					
209 109A	STORAGE	VCT01	RB	CMU	SA						
210	CORRIDOR	VCT01	RB	CMU	SA	1					
10A	STORAGE	VCT01	RB	CMU	SA						
211	MECH/STORAGE	VCT01	RB	CMU	SA						
211 111A	STORAGE	VCT01	RB	CMU	SA						
212	RESTROOM	VCT02	RB	CMU	SA	1					
213	CORRIDOR	VCT01	RB	CMU	SA	1					

FINISH REMARKS

1. SEE INTERIOR ELEVATIONS & TOILET ELEVATIONS FOR WALL FINISH LOCATIONS. 2. SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS.

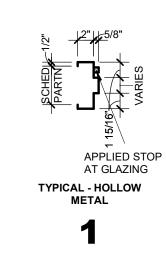
						RIALS A		TYPE		CONI				
DOOR REVISION	DOOR NUMBER	WIDTH	неіснт	DOOR TYPE	FRAME TYPE	DOOR MATERIAL	FRAME MATERIAL	VISION PANEL & LOUVER TY	POWER OPERATOR	HOLD OPEN	DOOR CONTROL A	DOOR CONTROL B	FIRE RATING	COMMENTS
_evel 1					正		==	>	ā	エ	Ω		<u> </u>	<u> </u>
-	214	2' - 8"	7' - 0"	A1				-	-	-	-	-	-	
_evel 2														
-	208	2' - 8"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	
-	212	2' - 8"	7' - 0"	A1	1	WD	НМ	-	-	-	-	-	-	

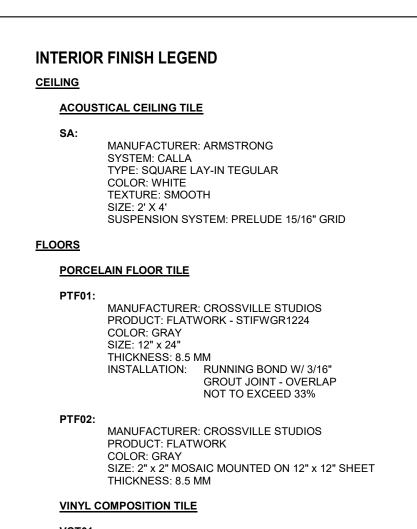
DOOR TYPES	SCALE: 1/4" = 1' - 0"	FRAME TYPES	SCALE: 1" = 1' - 0
CONTRACTORS TO USE THE ARCHITECT'S FLOC	OR PLAN		

NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.

FLUSH

SINGLE





MANUFACTURER: ARMSTRONG SERIES: STRIATIONS COLOR: STEEL T3602 THICKNESS: 1/8" (3.2 MM) INSTALLATION: 1/3 RUNNING BOND INSTALLATION MANUFACTURER: ARMSTRONG SERIES: STRIATIONS COLOR: TWILIGHT T3603 SIZE: 12" x 24" THICKNESS: 1/8" (3.2 MM) INSTALLATION: 1/3 RUNNING BOND INSTALLATION **RUBBER STAIR TREADS, NOSING & RISER** MANUFACTURER: NORA PRODUCT: NORAMENT GRANO
STAIR TREAD/NOSING/RISER COLOR: BLACK PEPPER 5304 MANUFACTURER: SHERWIN WILLIAMS PRODUTS: FIRST COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX, EG-SHEL, B20W12651 SECOND COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX, EG-SHEL, B20W12651 CRUSHED ICE SW7647

RAILING SYSTEM (ARTWORK)

MANUFACTURER: ARAKAWA HANGING SYSTEMS

SUSPENSION SYSTEM: MH 1800-A W/ MS1BJ

TYPE: WALL MOUNTED

MANUFACTURER: SHERWIN WILLIAMS
PRODUTS: FIRST COAT: PROINDUSTRIAL PRECATALYZED WATERBASED, SEMI-GLOSS EPOXY, K46W00151
SECOND COAT: PROINDUSTRIAL PRECATALYZED WATERBASED, SEMI-GLOSS EPOXY, K46W00151 CRUSHED ICE SW7647 COLOR: MANUFACTURER: SHERWIN WILLIAMS FIRST COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX, PRODUTS: EG-SHEL, B20W12651 SECOND COAT: S-W PROMAR 200 ZERO VOC INTERIOR LATEX, EG-SHEL, B20W12651 GRAY CLOUDS SW7658 MANUFACTURER: SHERWIN WILLIAMS
PRODUTS: FIRST COAT: PROINDUSTRIAL PRECATALYZED WATERBASED, SEMI-GLOSS EPOXY, K46W00151 SECOND COAT: PROINDUSTRIAL PRECATALYZED WATERBASED, SEMI-GLOSS EPOXY, K46W00151 GRAY CLOUDS SW7658 MANUFACTURER: SHERWIN WILLIAMS PRODUTS: FIRST COAT: EXTREME BOND PRIMER, B51W01150 NOTE: ONLY REQUIRED IF PREVIOUS COATING IS A FACTORY FINISH. SECOND COAT: PROINDUSTRIAL WATERBASED ALKYD URETHANE, THIRD COAT: PROINDUSTRIAL WATERBASED ALKYD URETHANE, COLOR: SEALSKIN SW7675 MANUFACTURER: SHERWIN WILLIAMS FIRST COAT: HARMONY INTERIOR LATEX, FLAT PRODUTS: SECOND COAT: HARMONY INTERIOR LATEX, FLAT THIRD COAT: HARMONY INTERIOR LATEX, FLAT PURE WHITE SW7005 **PORCELAIN WALL TILE**

OVERLAP NOT TO EXCEED 33% MANUFACTURER: ROPPE PRODUCT: PINNACLE RUBBER BASE PROFILE: STANDARD TOE COLOR SELECTION: BLACK BROWN 193 NOTE: CORNER BLOCKS & MICRO CORNERS TO BE USED ON INSIDE & OUTSIDE MANUFACTURER: WILSONART COLOR: VIA AUGUSTA Q4024 THICKNESS: 2 CM PROFILE: MITER EDGE PROFILE

MANUFACTURER: CROSSVILLE STUDIOS

INSTALLATION: HORIZONTAL RUNNING BOND

W/ 3/16" GROUT JOINT -

PRODUCT: FLATWORK - STIFWGR1224

COLOR: WHITE

SIZE: 12" x 24" THICKNESS: 8.5 MM

MANUFACTURER: WILSONART COLLECTION: HIGH PRESSURE LAMINATE COLOR: ASIAN NIGHT 7949K-18 FINISH: 18 - LINEARITY FINISH W/ AEON INSTALLATION: VERTICAL GRAIN INSTALLATION MANUFACTURER: MATCH EXISTING COLOR: STAIN TO MATCH EXISTING

HARDWARE: MATCH EXISTING

PLASTIC LAMINATE

MANUFACTURER: SCHLUTER PRODUCT: QUADEC MATERIAL: ALUMINUM COLOR: ANODIZED ALUMINIUM NOTE: COORDINATING INSIDE/OUTSIDE CORNER/END CAP TO BE USED

MANUFACTURER: SCHLUTER PRODUCT: DILEX-AHK MATERIAL: ALUMINUM COLOR: ANODIZED ALUMINIUM NOTE: COORDINATING INSIDE/OUTSIDE CORNER/END CAP TO BE USED

MANUFACTURER: WILSONART COLOR: VIA AUGUSTA Q4024 THICKNESS: 2 CM PROFILE: DOUBLE BEVEL MANUFACTURER: MAPEI PRODUCT: ULTRACOLOR PLUS MAX

COLOR: 118 JET BLACK

STAIR RAILING SYSTEM HANDRAILS TO BE 1 1/2" DIAMETER BOTTOM RAILS TO BE 1 1/2" DIAMETER POSTS TO BE 1 1/2" DIAMETER STILES TO BE 1/2" DIAMETER NOTE: RAILING SYSTEM TO BE PAINTED P03

HANDRAIL TO BE 1 1/2" DIAMETER NOTE: RAILING SYSTEM TO BE PAINTED P03



RIALS LEGE	ND		FINISH TAG LEGEND
SONRY UNIT	QZ	QUARTZ	ROOM NAME ────ROOM
	RB	RUBBER BASE	ROOM #———————————————————————————————————
D	ST	STAIR TREAD, NOSING, RISER	BASE TYPE RBX FLOORING DII
L	TH	THRESHOLD	CEILING ACT
	TP	TOILET PARTITIONS	REMARK 1
ATE	TR	TRIM	REFER TO INTERIOR FINISH LEGEND FOR DEFINI
OOR TILE	VCT	VINYL COMPOSITE TILE	CENEDAL FINISH NOTES
	WD	DOORS	GENERAL FINISH NOTES

-	
ROOM NAME ROOM ROOM # 000 FLOOR TYPE CPTX BASE TYPE RBX TYP WALL PXX CEILING ACT REMARK 1	FLOORING DIRECTION INDICATOR

REFER TO SHEET A8.00 FOR FINISH SPECIFICATION INFORMATION. REFERENCE FINISH PLANS FOR FLOOR PATTERN, ACCENT PAINT, AND OTHER FINISH LOCATIONS. REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL CEILING FINISHES. D. PATTERN NAME, COLOR AND NUMBER FOR EACH MATERIAL ARE GIVEN WHEREVER POSSIBLE ON THE FINISH PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/DESIGNER SO THAT THE CORRECT MATERIAL IS INSTALLED.. E. ALL GYP BOARD CEILINGS TO BE PAINTED P04, U.N.O.

ALL ACOUSTICAL TILE CEILINGS TO BE SA, U.N.O. G. ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION. H. REFER TO SHEET A8.00 FOR FLOOR TRANSITION DETAILS.

I. REFER TO SHEET A8.00 FOR BASE DETAILS. J. THERE SHALL NOT BE PAINT CONDITIONS THAT OCCUR CAUSING FINISH OR COLOR TO CHANGE ON AN OUTSIDE CORNER UNLESS SPECIFICALLY NOTED OTHERWISE. IF THIS CONDITION OCCURS BRING THIS TO THE DESIGNER'S ATTENTION IMMEDIATELY.

K. BULKHEADS/SOFFITS/FURDOWNS SHOULD BE FINISHED WITH THE SAME MATERIAL AND/OR

COLOR ON ALL FACES AS SPECIFIED, U.N.O.

L. ALL TOILET ROOMS SHALL HAVE EPOXY PAINTED WALLS WHERE TILE IS NOT PRESENT. REFER TO FINISH PLANS AND ELEVATIONS FOR PORCEASIN TILE LOCATIONS. M. WIREWAYS, ACCESS PANELS, GRILLES, ELECTRICAL PANELS, MECHANICAL DEVICES, ETC. SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE.

N. ALL NON-STAGGERED TILE VERTICAL GROUT JOINTS WILL ALIGN. ANY EXCEPTION TO BE APPROVED BY ARCHITECT/DESIGNER. O. PROVIDE CRACK ISOLATION MEMBRANE AS REQUIRED AT ALL PORCELAIN TILE FLOORING. FLOORING CONTRACTOR TO COORDINATE WITH DESIGNER.

P. ALL TILE CORNERS WILL HAVE SCHULTER QUADEC CORNER PROTECTION. Q. ALL TILE GROUT WILL BE EPOXY. REFER TO FINISH SCHEDULE. R. ALL CASEWORK SHALL HAVE PL ON CABINETS, U.O.N. S. CABINET FILLER PANELS FINISHED WITH WOOD-GRAIN LAMINATE SHALL HAVE THEIR GRAIN

T. PL WOOD-GRAIN PATTERNED LAMINATE SHALL RUN VERTICALLY. U. COUNTER SUPPORT BRACKETS SHALL BE ANODIZED ALUMINUM AT GYPSUM WALLS. V. FIRE EXTINGUISHER CABINETS (FEC) WILL BE STAINLESS STEEL. W. ALL WOOD DOORS TO BE REPAIRED & REPLACED AS NEEDED, SANDED & STAINED TO MATCH

X. ALL EXPOSED STEEL, HOLLOW METAL DOORS, DOOR & WINDOW FRAMES TO BE P03.

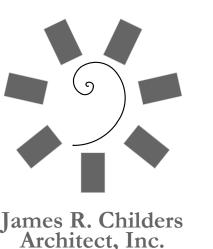
FINISH TAG REMARKS

RUNNING IN THE SAME DIRECTION AS CABINET.

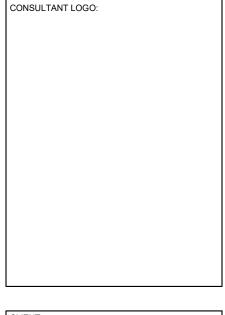
1. SEE INTERIOR ELEVATIONS & TOILET ELEVATIONS FOR WALL FINISH LOCATIONS. 2. SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS.

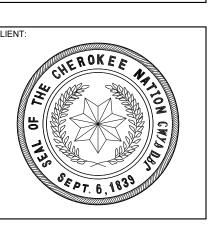


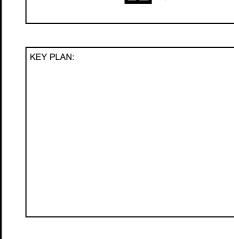
INTERIOR VIEW



45 South 4th Street Fort Smith, AR 72901 479-783-2480 www.childersarchitect.com PROFESSIONAL SEAL:



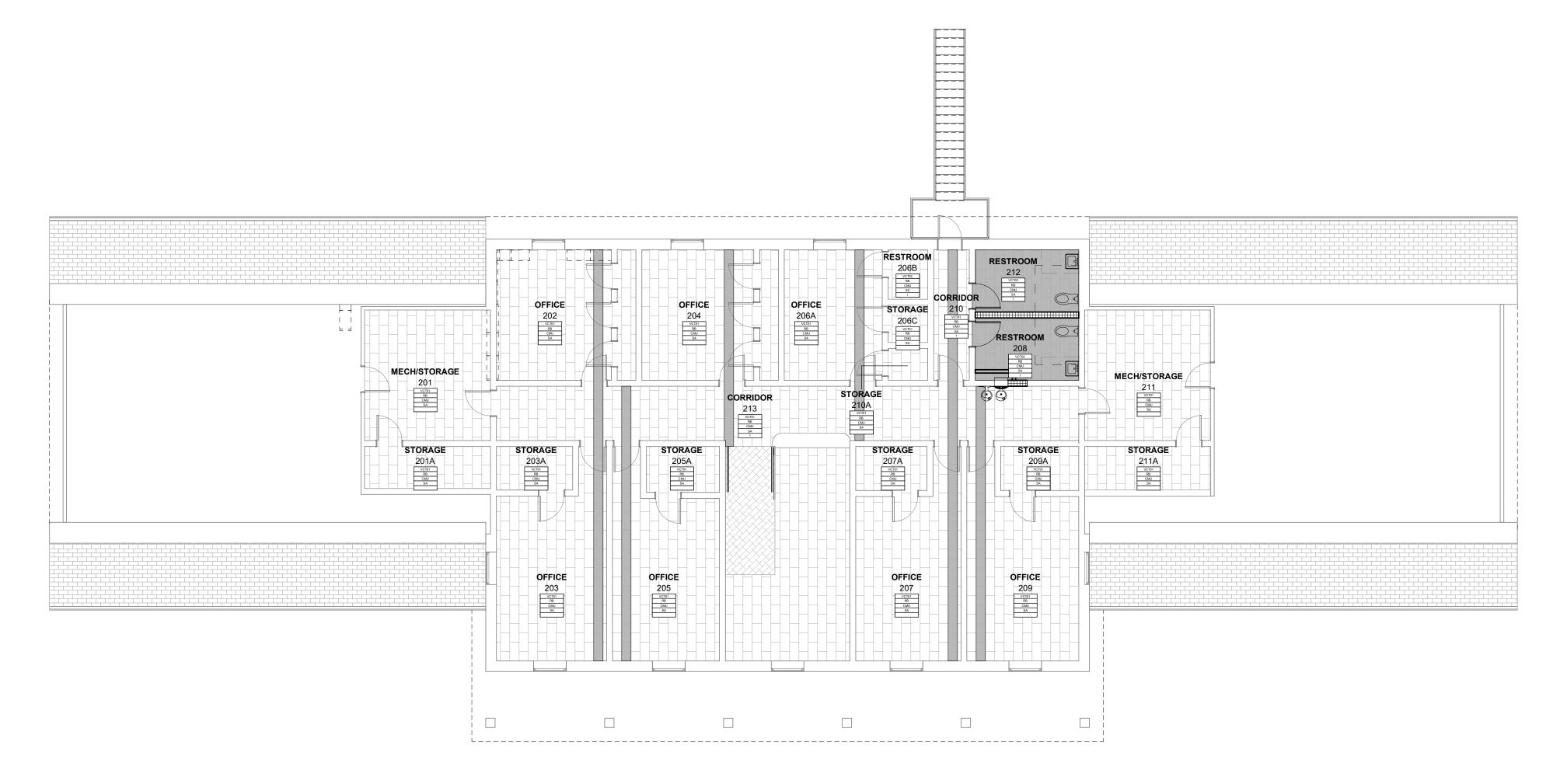


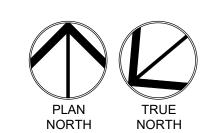


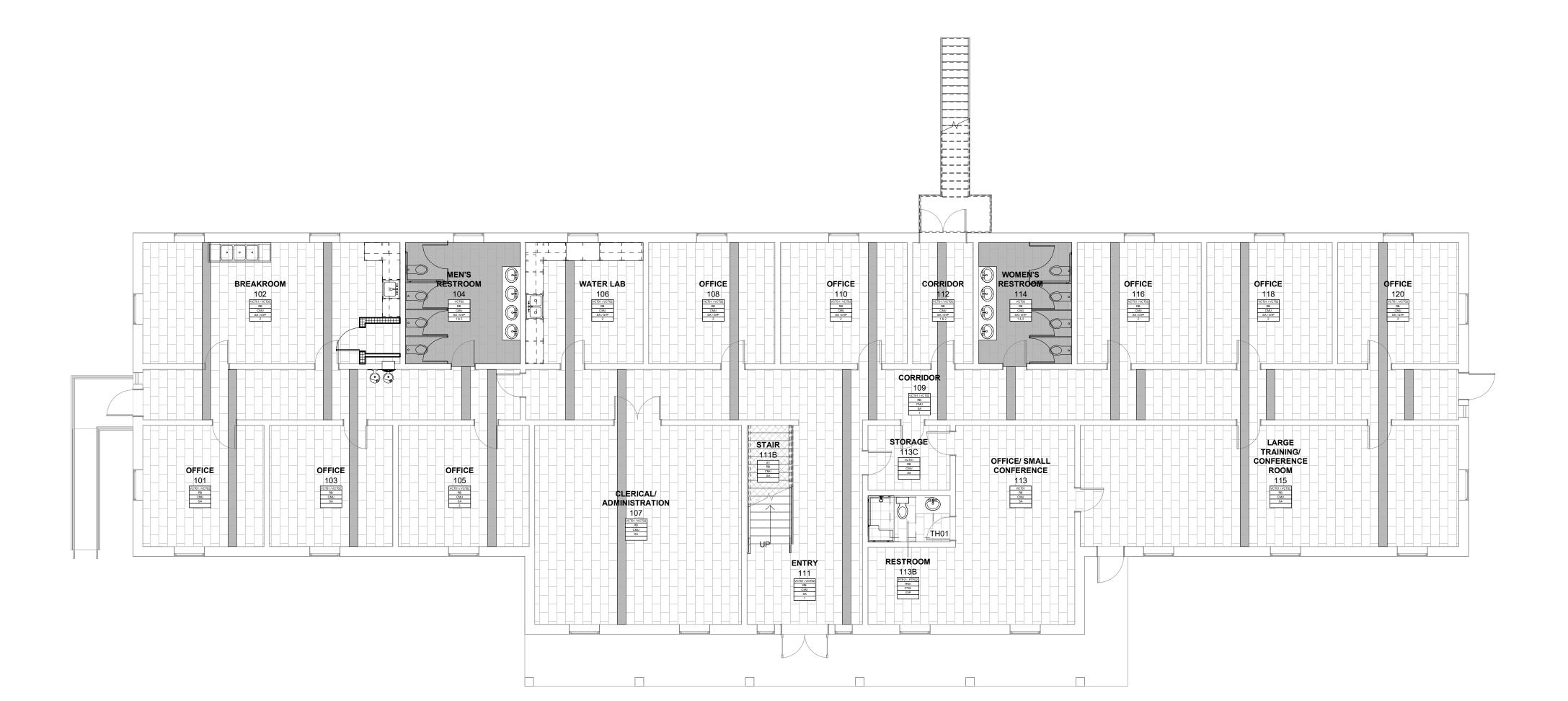
PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS REVISIONS DESCRIPTION

18-01.14 09/21/2020 SHEET NUMBER:

INTERIOR FINISH SCHEDULE LEGEND, DOOR SCHEDULE & THREE DIMENSIONAL VIEW









FINISH TAG LEGEND

ROOM NAME ───ROOM ROOM #----FLOOR TYPE CPTX
BASE TYPE RBX

FLOORING DIRECTION INDICATOR

TYP WALL──── PXX CEILING ACT REMARK————— 1

REFER TO INTERIOR FINISH LEGEND FOR DEFINITION OF MATERIAL DESIGNATIONS

GENERAL FINISH NOTES

- A. REFER TO SHEET A8.00 FOR FINISH SPECIFICATION INFORMATION. B. REFERENCE FINISH PLANS FOR FLOOR PATTERN, ACCENT PAINT, AND OTHER FINISH LOCATIONS. . REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL CEILING FINISHES. D. PATTERN NAME, COLOR AND NUMBER FOR EACH MATERIAL ARE GIVEN WHEREVER POSSIBLE ON THE FINISH PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/DESIGNER SO THAT THE CORRECT
- MATERIAL IS INSTALLED.. E. ALL GYP BOARD CEILINGS TO BE PAINTED P04, U.N.O.
- F. ALL GYP BOARD CEILINGS TO BE PAINTED POR, U.N.O.

 F. ALL ACOUSTICAL TILE CEILINGS TO BE SA, U.N.O.

 G. ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION.

 H. REFER TO SHEET A8.00 FOR FLOOR TRANSITION DETAILS. I. REFER TO SHEET A8.00 FOR BASE DETAILS.
- J. THERE SHALL NOT BE PAINT CONDITIONS THAT OCCUR CAUSING FINISH OR COLOR TO CHANGE ON AN OUTSIDE CORNER UNLESS SPECIFICALLY NOTED OTHERWISE. IF THIS CONDITION OCCURS BRING THIS TO THE DESIGNER'S ATTENTION IMMEDIATELY.
- K. BULKHEADS/SOFFITS/FURDOWNS SHOULD BE FINISHED WITH THE SAME MATERIAL AND/OR COLOR ON ALL FACES AS SPECIFIED, U.N.O. L. ALL TOILET ROOMS SHALL HAVE EPOXY PAINTED WALLS WHERE TILE IS NOT PRESENT. REFER TO
- FINISH PLANS AND ELEVATIONS FOR PORCELAIN TILE LOCATIONS. M. WIREWAYS, ACCESS PANELS, GRILLES, ELECTRICAL PANELS, MECHANICAL DEVICES, ETC. SHALL
- BE FINISHED TO MATCH THE ADJACENT SURFACE. N. ALL NON-STAGGERED TILE VERTICAL GROUT JOINTS WILL ALIGN. ANY EXCEPTION TO BE
- APPROVED BY ARCHITECT/DESIGNER. O. PROVIDE CRACK ISOLATION MEMBRANE AS REQUIRED AT ALL PORCELAIN TILE FLOORING. FLOORING CONTRACTOR TO COORDINATE WITH DESIGNER.
- P. ALL TILE CORNERS WILL HAVE SCHULTER QUADEC CORNER PROTECTION. Q. ALL TILE GROUT WILL BE EPOXY. REFER TO FINISH SCHEDULE.

T. PL WOOD-GRAIN PATTERNED LAMINATE SHALL RUN VERTICALLY.

- R. ALL CASEWORK SHALL HAVE PL ON CABINETS, U.O.N. S. CABINET FILLER PANELS FINISHED WITH WOOD-GRAIN LAMINATE SHALL HAVE THEIR GRAIN RUNNING IN THE SAME DIRECTION AS CABINET.
- U. COUNTER SUPPORT BRACKETS SHALL BE ANODIZED ALUMINUM AT GYPSUM WALLS. V. FIRE EXTINGUISHER CABINETS (FEC) WILL BE STAINLESS STEEL. W. ALL WOOD DOORS TO BE REPAIRED & REPLACED AS NEEDED, SANDED & STAINED TO MATCH
- X. ALL EXPOSED STEEL, HOLLOW METAL DOORS, DOOR & WINDOW FRAMES TO BE P03.

FINISH TAG REMARKS

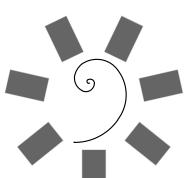
1. SEE INTERIOR ELEVATIONS & TOILET ELEVATIONS FOR WALL FINISH LOCATIONS. 2. SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS.

FIN	FINISH MATERIALS LEGEND						
CMU	CONCRETE MASONRY UNIT	QZ	QUARTZ				
СРТ	CARPET	RB	RUBBER BASE				
GYP	GYPSUM BOARD	ST	STAIR TREAD, NOSING, RISER				
НМ	HOLLOW METAL	TH	THRESHOLD				
Р	PAINT	TP	TOILET PARTITIONS				
PL	PLASTIC LAMINATE	TR	TRIM				
PTF	PORCELAIN FLOOR TILE	VCT	VINYL COMPOSITE TILE				
PTW	PORCELAIN WALL TILE	WD	DOORS				

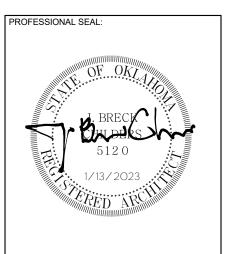
THRESHOLD & TRANSITION LEGEND

TH01 QUARTZ THRESHOLD

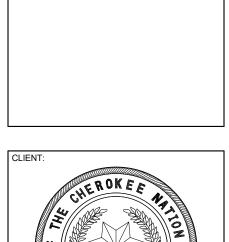
FINIS	SH PA	TTERN LEGEND
PTF01		PORCELAIN TILE FLOOR
PTF02		PORCELAIN TILE FLOOR
VCT		VINYL COMPOSITION TILE

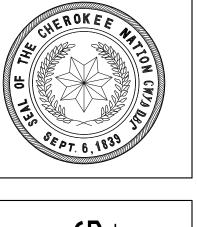


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CONSULTANT LOGO:

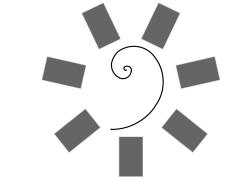




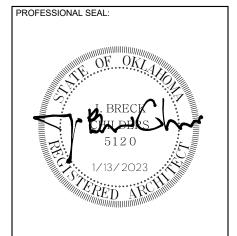
E NATION H - MARKOMA I CHEROKEE ENVIRONMENTAL HEALTH

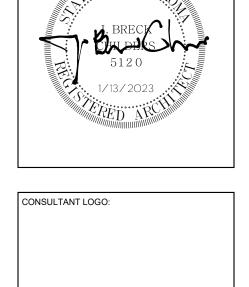
PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS

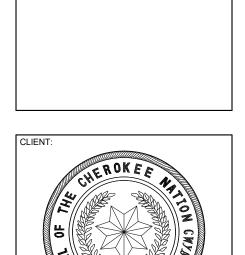
FINISH PLANS

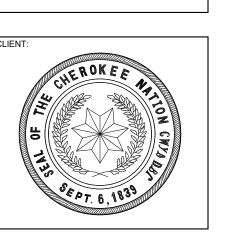


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E NATION H - MARKOMA I CHEROKEE ENVIRONMENTAL HEALTH

PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS

09/21/2020

A9.01

CEILING PLANS

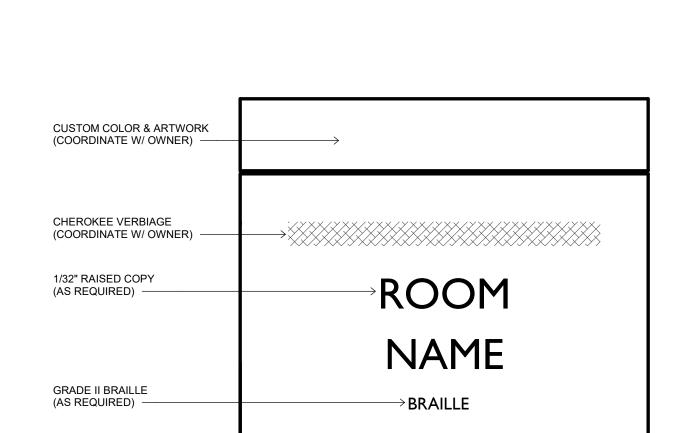
SIGNAGE REMARKS

1. COORDINATE INSERT CONTENT/ VERBIAGE W/ OWNER.

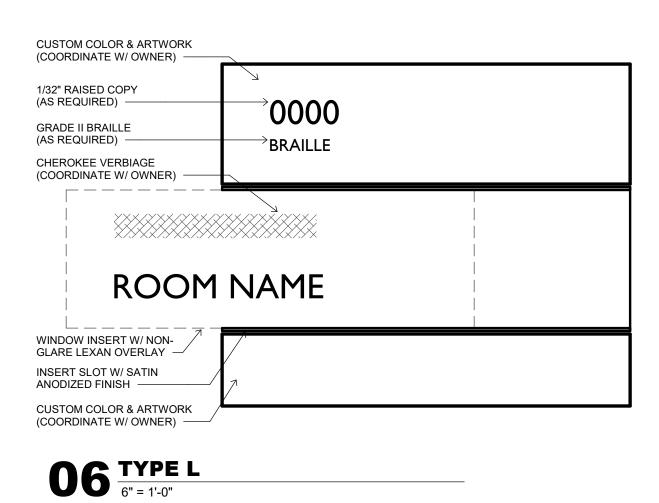
GENERAL SIGNAGE NOTES

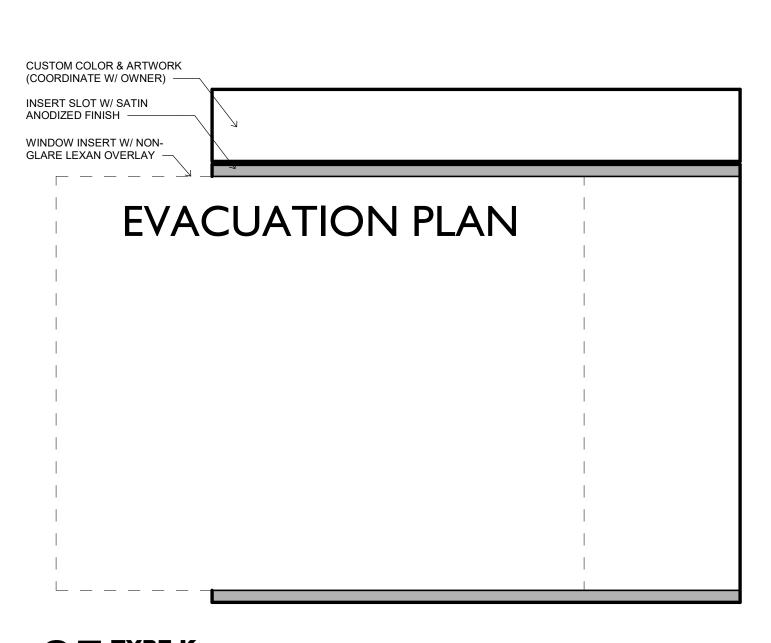
- A. COORDINATE ALL VERBIAGE W/ OWNER.
 B. COORDINATE ALL CUSTOM SIGNAGE DIMENSIONS, COLORS & ARTWORK W/ OWNER & ARCHITECT. (CUSTOM ELEMENTS NOT SHOWN)
- C. VERIFY QUANTITIES W/ OWNER.

 D. VERIFY LOCATION W/ OWNER PRIOR TO MOUNTING SIGNAGE ON GLAZING.

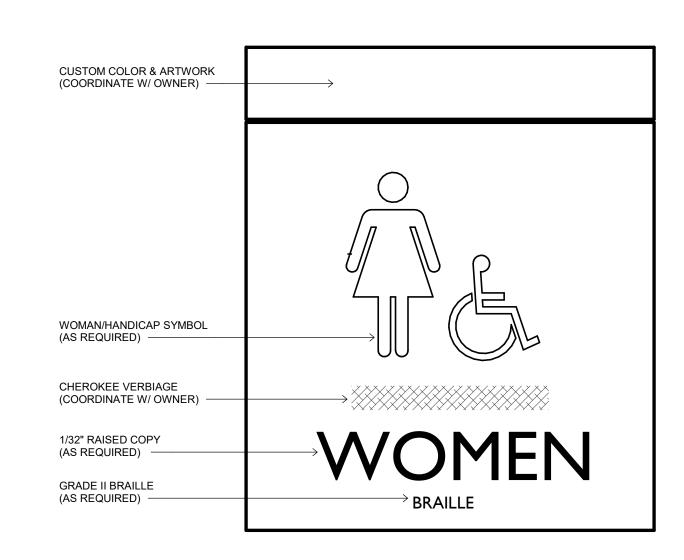


07 TYPE M 6" = 1'-0"

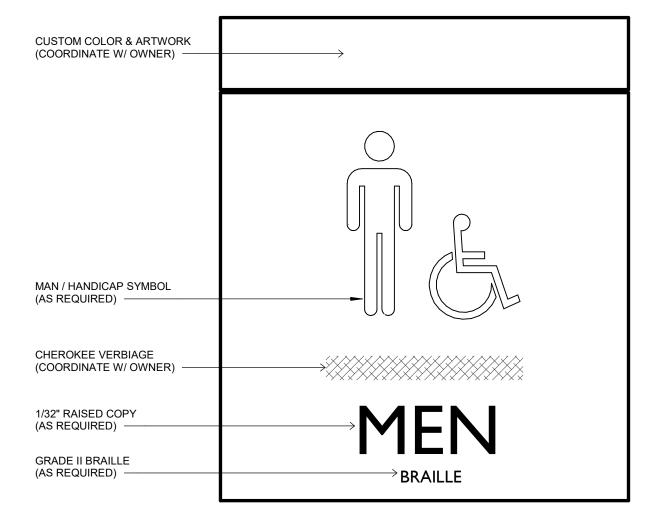




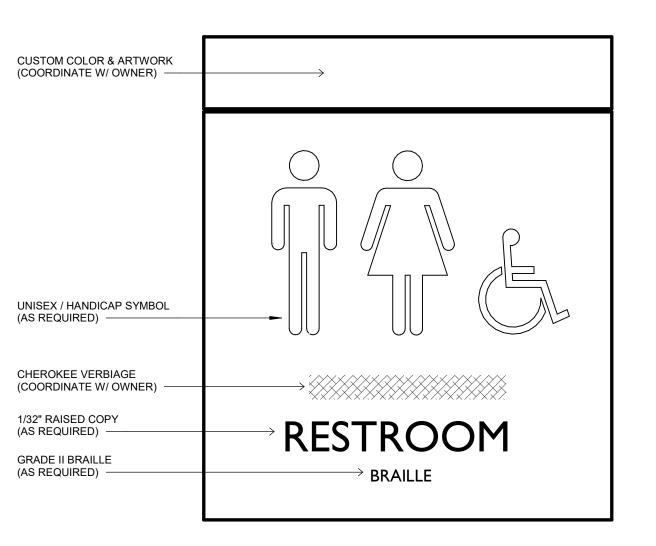
05 TYPE K
6" = 1'-0"



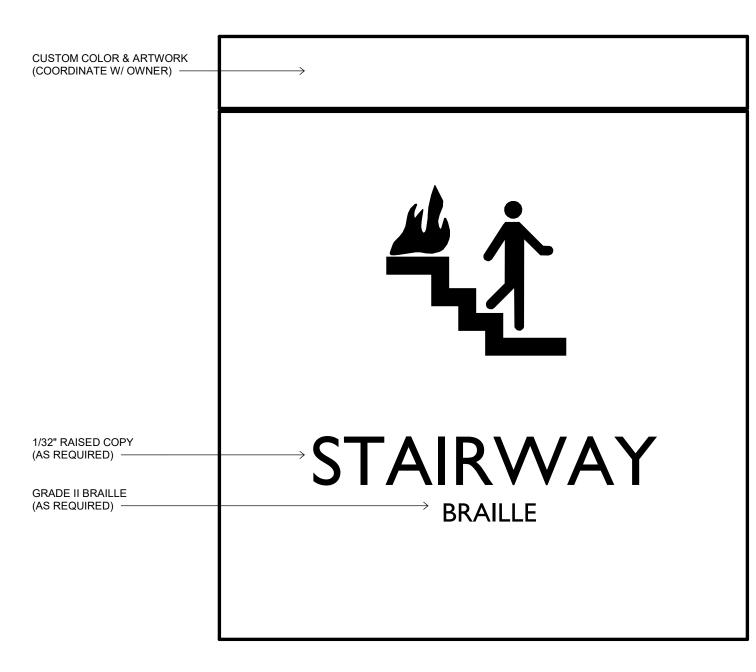
O4 TYPE G.3
6" = 1'-0"



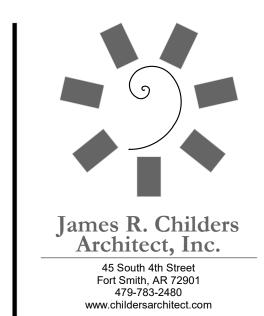
03 TYPE G.2
6" = 1'-0"

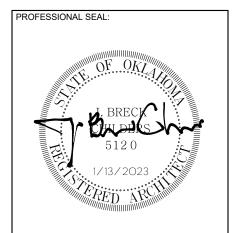


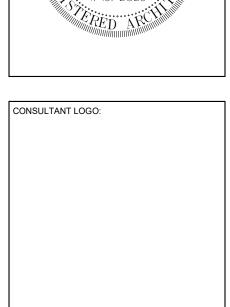
02 TYPE G.1 6" = 1'-0"

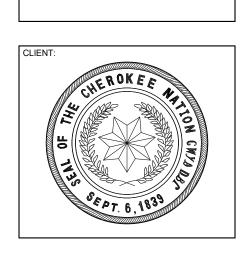


O1 TYPE E
6" = 1'-0"











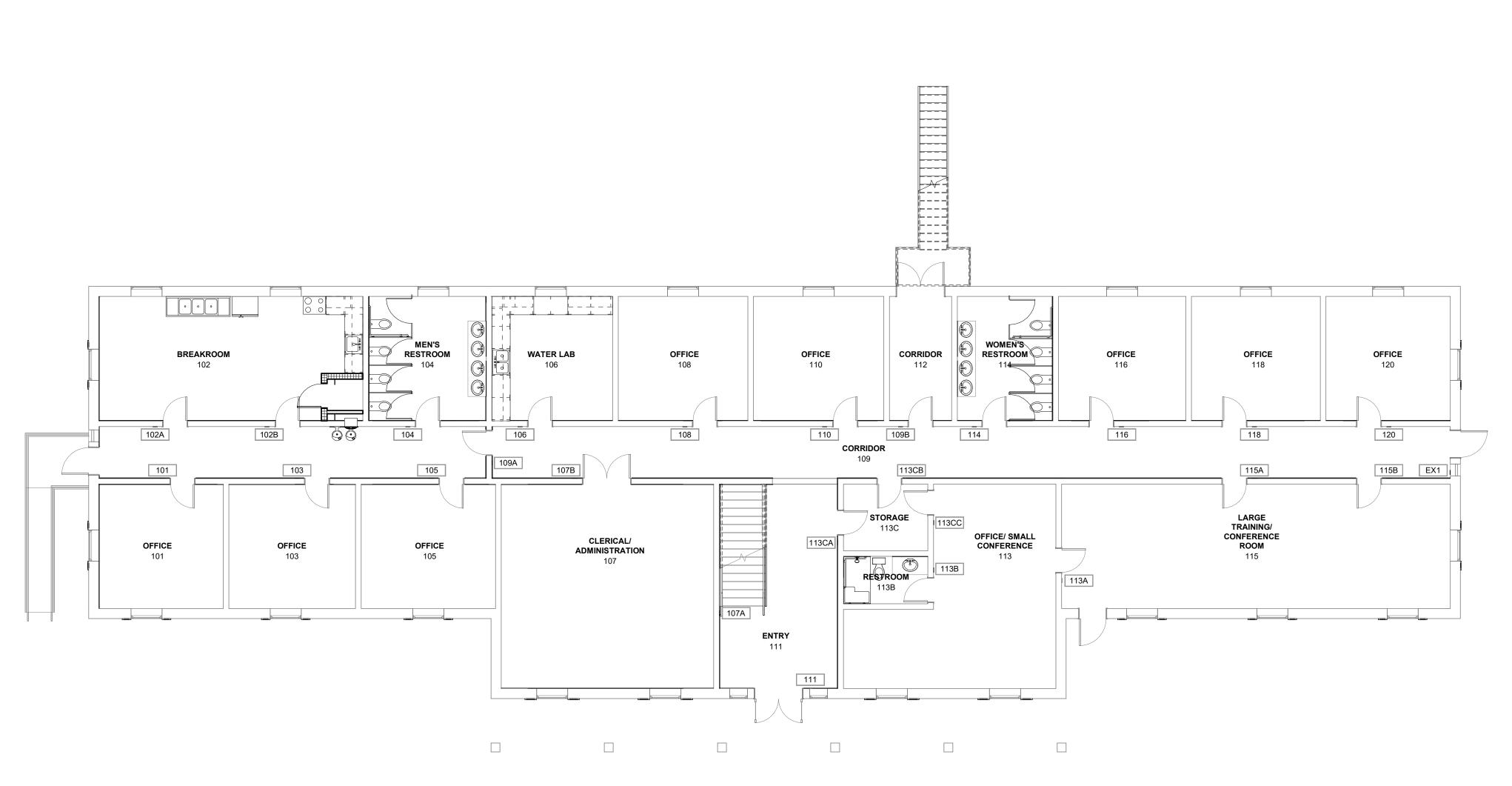
	KEY PLAN:
1	PROJECT PHASE:
	TROSEST FINEL.
	100% CONSTRUCTION
	DOCUMENTS
ı	

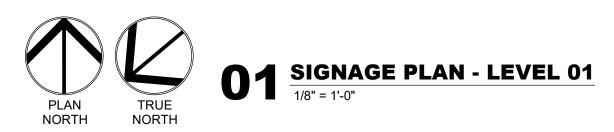
PRO	JECT PHASE	i:	
			ISTRUCTION JMENTS
		RE\	VISIONS
#	DATE		DESCRIPTION
DATE:			JOB NUMBER:
_	00/04/0000		40.04.44

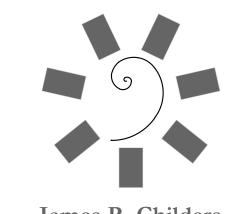
DATE: JOB NUMBER: 09/21/2020 18-01.14

SHEET NUMBER: A10.00

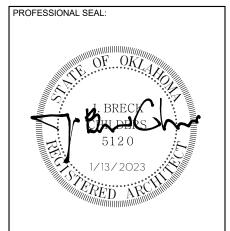
SIGNAGE SCHEDULE & ELEVATIONS

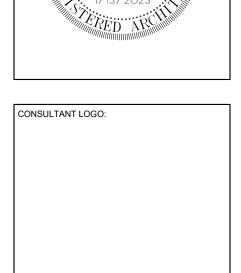


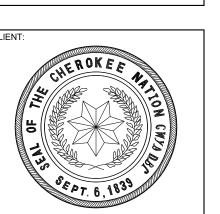


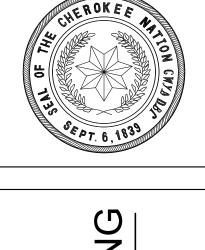


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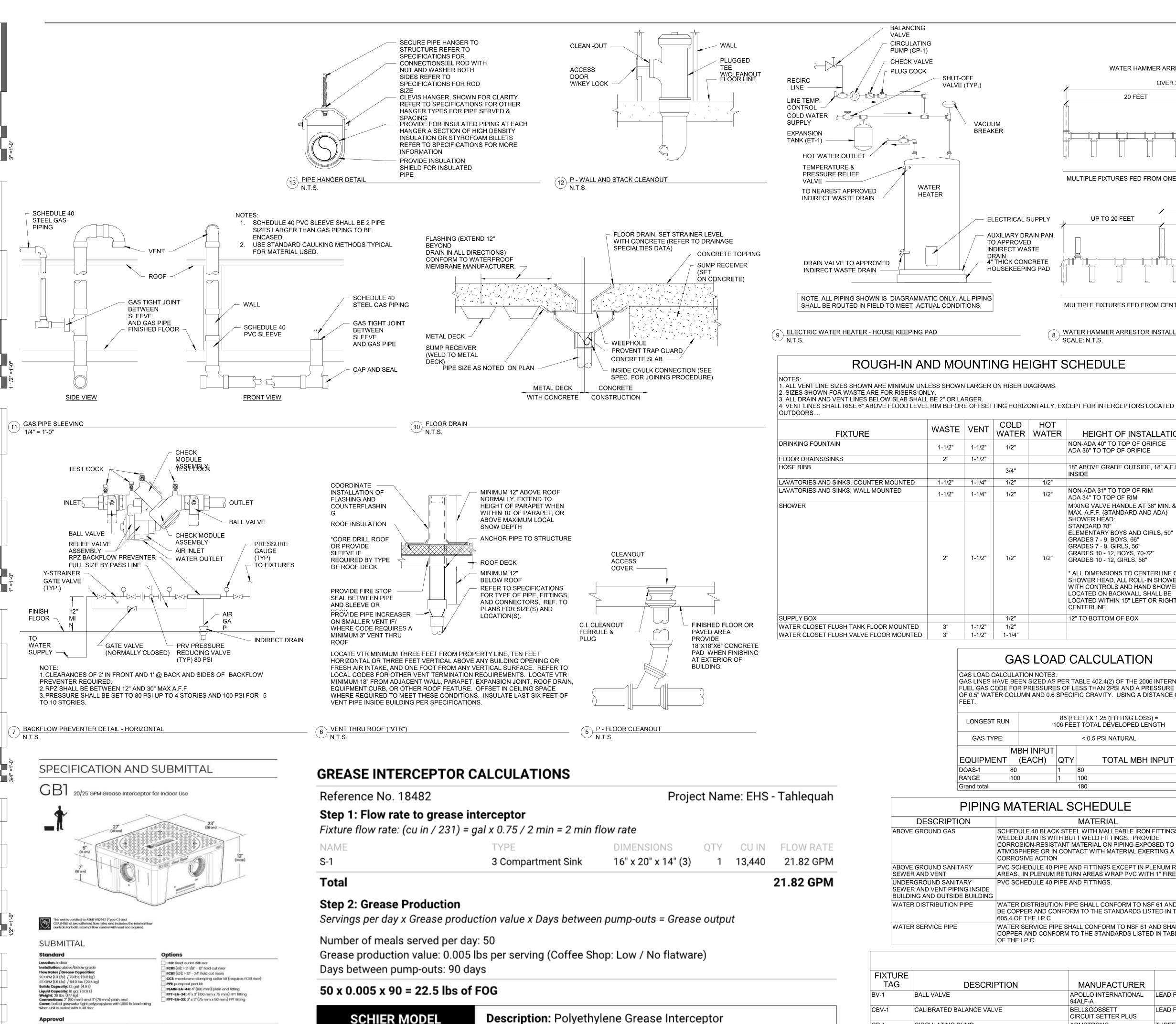


CHEROKEE ENVIRONMENTAL HEALTH

PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS

A10.01

SIGNAGE PLANS



Reference No. 18482	Project Name: EHS - Tahlequah

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
S-1	3 Compartment Sink	16" x 20" x 14" (3)	1	13,440	21.82 GPM

SCHIER MODEL	D
	ח
	_

GB

Liquiu Capacity. 10 gai

- LOCK SCREW

COLD WATER IN

MIXED OUTLET

Specifying Engineer

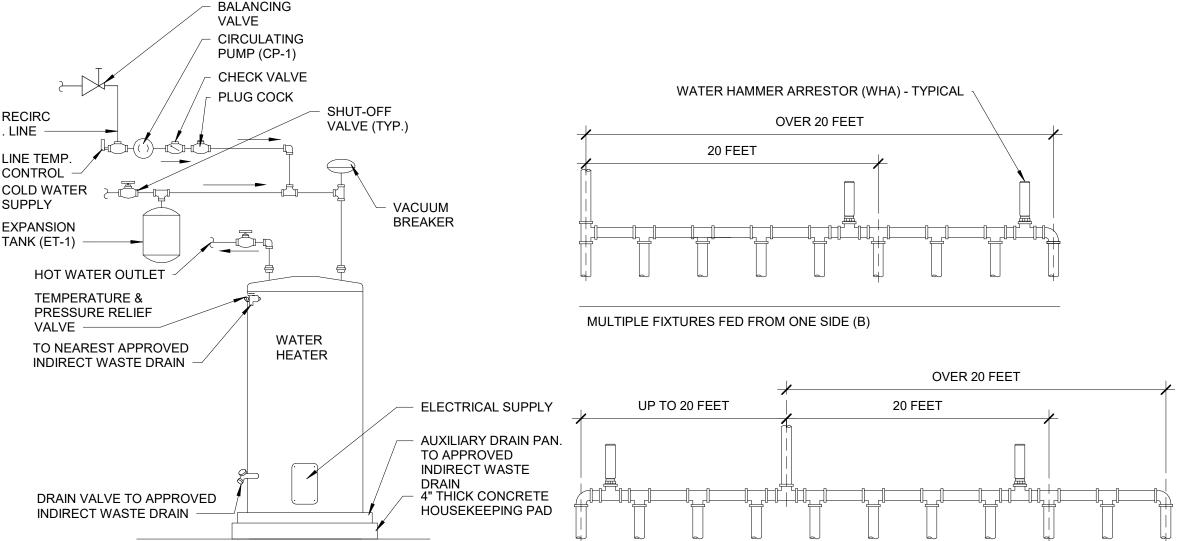
GREASE INTERCEPTOR SCHIER GB1

TEMPERATURE

- HOT WATER IN

P - POINT OF USE - THERMOSTATIC MIXING VALVE

		INSULATION THICKNESS NOMINAL PIPE SIZE				
DESCRIPTION	INSULATION TYPE	<1	1 TO <1-1/2	1-1/2 TO <4	4 TO <8	≥8
DOMESTIC COLD WATER PIPING BELOW GRADE	PVC OR HDPE JACKET ONLY, NO INSULATION	1	1	1.5	1.5	1.5
CONDENSATE PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	0.5	1	1	1	1.5
PVC WASTE VENT AND WASTE DRAIN IN AIR PLENUM SPACE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	0.5	0.5	0.5	0.5	0.5
WATER COOLER TRAPS, ALL EXPOSED LAVATORY AND SINK TRAPS, TAILPIECES, HOT AND COLD WATER SUPPLY LINES/ANGLE VALVES TO THESE DEVICES	EQUIVALENT TO TRUEBRO 102 E-Z PIPE COVER	0.125	0.125	0.125	0.125	0.12
DOMESTIC HOT WATER AND HOT WATER RETURN PIPING BELOW GRADE	ELASTOMERIC OR FOAM. ENCAPSULATE WITH PVC OR HDPE JACKET	1	1	1.5	1.5	1.5
DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	1	1	1.5	1.5	1.5
PVC WASTE DRAIN IN WALLS, AND WASTE VENT IN ALL AREAS ABOVE GRADE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	1"	1"	1.5"	1.5"	1.5



✓ SCALE: N.T.S.

ROUGH-IN AND MOUNTING HEIGHT SCHEDULE

1-1/2" 1-1/2"

1-1/2" 1-1/4"

1-1/2"

1-1/2" 1-1/4" 1/2"

1-1/2"

1-1/2"

1/2"

GAS LOAD CALCULATION NOTES

MBH INPUT

CORROSIVE ACTION

605.4 OF THE I.P.C

OF THE I.P.C

DESCRIPTION

ELECTRIC WATER COOLER, SPLIT LEVEL W/BOT

ELECTRIC WATER HEATER, TALL 80 GALLON

LAVATORY, WALL MOUNT, VITREOUS CHINA

LAVATORY, COUNTER MOUNT, VITREOUS CHINA -

SINGLE COMPARTMENT, OVERALL 25"x22"x6-1/2"

DOUBLE COMPARTMENT, COUNTER MOUNT

THERMOSTATIC MIXING VALVE - POINT OF USE

FLOOR MOUNTED, ELONGATED RIM, 1.28 GPF

FLOOR MOUNTED, ELONGATED RIM, 1.28 GPF

WATER HAMMER ARRESTOR

WATER CLOSET, VITREOUS CHINA, FLUSH TANK,

WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, ZURN

FROST PROOF HOSE BIBB - BOX

HANDICAPPED SHOWER

SINK - COMMERCIAL

SUPPLY BOX

STACK CLEANOUT

THREE COMPARTMENT

PIPING MATERIAL SCHEDULE

PVC SCHEDULE 40 PIPE AND FITTINGS

EQUIPMENT (EACH) QTY

LONGEST RUN

GAS TYPE:

RANGE

DESCRIPTION

ABOVE GROUND GAS

SEWER AND VENT

ABOVE GROUND SANITARY

UNDERGROUND SANITARY

WATER DISTRIBUTION PIPE

NATER SERVICE PIPE

BALL VALVE

CALIBRATED BALANCE VALVE

CIRCULATING PUMP

EXPANSION TANK

FIXTURE

TAG

SEWER AND VENT PIPING INSIDE

BUILDING AND OUTSIDE BUILDING

Grand total

FIXTURE

COLD | HOT

WATER WATER

1/2"

1/2"

MULTIPLE FIXTURES FED FROM CENTRAL MAIN

WATER HAMMER ARRESTOR INSTALLATION DETAIL

HEIGHT OF INSTALLATION

NON-ADA 40" TO TOP OF ORIFICE

18" ABOVE GRADE OUTSIDE, 18" A.F.F.

MIXING VALVE HANDLE AT 38" MIN. & 48"

SHOWER HEAD, ALL ROLL-IN SHOWERS WITH CONTROLS AND HAND SHOWERS

LOCATED WITHIN 15" LEFT OR RIGHT OF

LOCATED ON BACKWALL SHALL BE

ADA 36" TO TOP OF ORIFICE

NON-ADA 31" TO TOP OF RIM

MAX. A.F.F. (STANDARD AND ADA)

ELEMENTARY BOYS AND GIRLS, 50"

ADA 34" TO TOP OF RIM

GRADES 7 - 9. BOYS. 66"

GRADES 7 - 9, GIRLS, 56"

12" TO BOTTOM OF BOX

85 (FEET) X 1.25 (FITTING LOSS) =

< 0.5 PSI NATURAL

MATERIAL

PVC SCHEDULE 40 PIPE AND FITTINGS EXCEPT IN PLENUM RETURN

AREAS. IN PLENUM RETURN AREAS WRAP PVC WITH 1" FIRE WRAP.

WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL

BE COPPER AND CONFORM TO THE STANDARDS LISTED IN TABLE

WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL BE

COPPER AND CONFORM TO THE STANDARDS LISTED IN TABLE 605.3

MANUFACTURER

APOLLO INTERNATIONAL

CIRCUIT SETTER PLUS

94ALF-A

WATTS

PLT-5

ELKAY

BELL&GOSSETT

ARMSTRONG

ASTRO 230 SS

LZWS-LRPBM28K

A.O. SMITH

J.R. SMITH

TILE SHOWER

ADVANCE TABCO

T9-23-60-18RL

LUSTERTONE

LRAD332255

GUY GRAY

J. R. SMITH

LEONARD

Z5655-BWL1

SIOUX CHIEF

HYDRARESTER

Z5545-K

650&660

BIM-875

LRADQ252265PD

EGR-80

Z5314

SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS OR

WELDED JOINTS WITH BUTT WELD FITTINGS. PROVIDE

CORROSION-RESISTANT MATERIAL ON PIPING EXPOSED TO ATMOSPHERE OR IN CONTACT WITH MATERIAL EXERTING A

TOTAL MBH INPUT

106 FÈET TÓTAL DÈVELOPED LENGTH

GRADES 10 - 12, BOYS, 70-72'

GRADES 10 - 12, GIRLS, 58"

SHOWER HEAD:

STANDARD 78"

CENTERLINE

GAS LOAD CALCULATION

GAS LINES HAVE BEEN SIZED AS PER TABLE 402.4(2) OF THE 2006 INTERNATIONAL

FUEL GAS CODE FOR PRESSURES OF LESS THAN 2PSI AND A PRESSURE DROP

OF 0.5" WATER COLUMN AND 0.6 SPECIFIC GRAVITY. USING A DISTANCE OF 125

UP TO 20 FEET

REGULATIONS AND LOCAL PLUMBING INSPECTOR.

AIR FROM REACHING THE VALVE.

MANUFACTURERS RECOMMENDATION.

PROVIDE A CONTROL CHAIN AND/OR ARM.

WITH ON SITE CONDITIONS AND LOCAL UTILITY.

REQUIREMENTS.

RECOMMENDATIONS.

AND SPECIFICATIONS.

PLUMBING EQUIPMENT SCHEDULE

LEAD FREE, CIRCUIT SETTER PLUS, CALIBRATED BALANCE AND POSITIVE SHUT-OFF VALVE

ADA APPROVED, WALL MOUNT (INWALL FRAME/PLATE), FLEXIBLE SAFETY BUBBLER

CONNECTIONS, CONCEALED ARM CARRIER SYSTEM, THREE HOLES ON DECK 4" CENTERS

PROVIDE SHUTOFF VALVE FOR SUPPLY LINE IN AN ACCESSIBLE LOCATION

(1) 1/2" SUPPLY, PROVIDE WHA-1 (WATER HAMMER ARRESTOR)

FRAME AND COVER AS REQUIRED, REFER TO ARCHITECT

Z5972-COMB CLOSET BOLT AND WAX RING KIT

COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.

DRAWINGS REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PROPER SIZE.

ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.

COORDINATE WITH ARCHITECTURAL PLAN FOR ACCESS DOOR LOCATIONS

WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070

ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR

INSULATION JACKET SHALL BE PROVIDED WHEN PIPING INSULATION IS EXPOSED

POTENTIAL CONFLICTS WITH WORK PRIOR TO BEGINNING CONSTRUCTION.

THREE SPEED, BRONZE BODY WITH BRASS IMPELLER, WITH AQUASTAT AND AUTOMATIC TIMER KIT, 6 GPM @ 10 HEAD-FEET

BRASS CONNECTION, WELDED STEEL CONSTRUCTION, POLYPROPYLENE LINER, BUTYL DIAPHRAGM, GROOVED DIAPHRAGM HOOP RING, WELDED AIF

|1/4
m TURN NON-FREEZE WALL HYDRANT WITH AUTOMATIC DRAINING INTEGRAL VACUUM BREAKER, DUAL CHECK VALVE AND STAINLESS STEEL BOX

ZURN Z7440-XL-BA-FC SINGLE LEVER FAUCET. TMV-1, ZURN Z8743-PC GRID STRAINER. ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS

ZURN Z7440-XL-BA-FC SINGLE LEVER FAUCET, TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS

ADVANCE TABCO K-1 FAUCET, 12" REACH, 3-1/2" OPENING DRAIN. ZURN Z89600 TWIST DRAIN, McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER. 1

1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK

CHROME PLATED SOLID BRASS ANGLE STOPS W/5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER

ELKAY MODEL LK7921SSS SINGLE LEVER POST MOUNT, CIRCULAR BASE, 13" HIGH SPOUT, 8" REACH, AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M

HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS

P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON

PFISTER G136-5000(C) DUAL LEVER FAUCET WITH SPRAY, 12" HIGH SWING SPOUT, 8" REACH, 0.5GPM AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER. 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS

P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE FAUCET HOLES ON

DUCO CAST IRON CLEANOUT TEE, BRONZE PLUG, REMOVABLE STAINLESS STEEL COVER. REFER TO PLANS FOR SIZE, PROVIDE ROUND OR SQUARE

EZ-FLO 65913 OPEN FRONT SEAT, McGUIRE 172LK CHROME PLATED BRASS CLOSET SUPPLY W/5" CHROME PLATED COPPER EXTENSION TUBE,

VACURESTER VACUUM BREAKER ARRESTER, TYPE L COPPER CONSTRUCTION, IF AN ACCESS DOOR IS NEEDED CONTACT THE ARCHITECT

EZ-FLO 65913 OPEN FRONT SEAT, ZURN Z6000AV-HET 1.28 GPF MANUAL FLUSH VALVE, Z5972-COMB CLOSET BOLT AND WAX RING KIT

BRASS DRAIN VALVE, ANODE ROD, AUTOMATIC THERMOSTAT, HEAT TRAP, EXPANSION TANK (ET-1), CATCH PAN & DRAIN, MIXING VALVE

LEAD FREE BALL VALVE, FULL PORT, BLOWOUT-PROOF, PRESSURE RETAINING, ADJUSTABLE STEM PACKING NUT

PROVIDED ZURN FLOOR DRAIN MODEL ZS1455SS WITH STAINLESS STEEL STRAINER, ZURN Z7300-SS-MT-HW-H9-WF

RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE TWO FAUCET HOLES ON DECK

LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE, TEMPERATURE CONTROL SET AT 110°

WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERGROUND PIPING.

THE SANITARY SERVICE IS COMPATIBLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK.

THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC

THE CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE

OBTAINED FROM LOCAL AUTHORITIES AND/OR PROPER CONTAMINATION PROVISIONS PER LOCAL CODE HAVE BEEN MET.

SANITARY VENT PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, OR WITHIN WALLS UNLESS OTHERWISE NOTED.

FLUSH CONTROLS FOR HANDICAPPED WATER CLOSETS ARE TO BE MOUNTED TO THE OPEN SIDE OF THE TOILET AREAS

17 $\,$ $\,$ $\,$ FINISHED FLOOR ELEVATION (F.F.E.) SHALL BE 0.00' FOR CALCULATION PURPOSES ONLY, UNLESS NOTED OTHERWISE.

USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900 OR FLAME STOPPER 5000.

CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR DISHWASHER, WASHING MACHINE, REFRIGERATOR, ETC.

THE BUILDING UTILITIES ARE COMPATABLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK

TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.

MULTIPLE FIXTURES FED FROM ONE SIDE (A) QUICK CLOSURE VALVE LONG RUN OF PIPING REMOTE FIXTURES

GENERAL PLUMBING NOTES

IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO CORRDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERT AND LOCATION OF

THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATICAL. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING,

CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS. PIPING. MISCELLANEOUS ITEMS REQUIRED FOR A

DOMESTIC WATER AND SEWER LOCATED OUTSIDE OF FOOTING SHALL MAINTAIN A MINIMUM OF 10' SEPARATION UNLESS WRITTEN PERMISSION IS

ALL DOMESTIC WATER, NATURAL GAS, DEIONIZED WATER, CARBON DIOXIDE, COMPRESSED AIR, AND NITROGEN PIPING SHOWN IS ABOVE CEILING.

MACHINES, SUPPLY BOXES, AND QUICK CLOSING VALVES NOT LISTED. INSTALL WHA-1 AS CLOSE TO QUICK CLOSING VALVE AS POSSIBLE PER

11 FLOOR DRAIN CONNECTION SIZE TO BE THE SAME SIZE AS THE DRAIN LINE IT CONNECTS UNLESS NOTED OTHERWISE. IF SIZE IS NOT INDICATED ON

14 ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR

THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT

18 THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS. NON-LEAD TYPE

ALL VENT THRU ROOF (VTR'S) PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES.

ANY PVC PIPE PENETRATING A FIRE RATED ASSEMBLY SHALL BE EXTERNALLY SLEEVED WITH STEEL. FERROUS, OR COPPER MATERIALS. SECURELY

FASTENED TO THE FIRE RATED ASSEMBLY. ANY SPACE BETWEEN THE SLEEVE AND THE FIRE RATED ASSEMBLY PENETRATED SHALL BE PROTECTED

PROVIDE SHUT-OFF VALVES FOR PROPER OPERATION AND SERVICING OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT

TEMPERED WATER, NOT EXCEEDING A MAXIMUM OF 110° F, SHALL BE DELIVERED FROM PUBLIC HANDWASHING FACILITIES THROUGH AN APPROVED

TRADES. MAINTENANCE SHALL BE ABLE TO ACCESS VALVES WITH STANDARD LADDER. SHOULD LOCATION NOT BE APPLICABLE CONTRACTOR SHALL

VALVES SHALL BE LOCATED 6" ABOVE ACCESSIBLE CEILING WHEN AT ALL POSSIBLE AND SHALL BE CLEAR OF ANY OBSTRUCTIONS FROM OTHER

PLUMBING CONTRACTOR SHALL PROVIDE AS AN ADD ALTERNATE BID: HAVE A FLOW TEST DONE FOR THE DOMESTIC WATER TO DETERMINE IF A

REGULATORS INSTALLED ON THE INTERIOR OF THE BUILDING SHALL BE VENTED TO THE EXTERIOR PER LOCAL AND STATE CODES.

BOOSTER PUMP WILL BE REQUIRED. IF ONE IS REQUIRED, CONTRACTOR SHALL HAVE ONE SIZED AND PROVIDE IT FOR THE PROJECT. COORDINATE

29 IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERTS AND LOCATIONS OF

CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV-1) SHOULD THE WATER PRESSURE EXCEED 75 PSI. CONTRACTOR SHALL CONFIRM

NOT BE LIMITED TO THE FOLLOWING: AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE EACH RISER. INSTALL PER

PROVIDE BALANCING VALVES FOR PROPER OPERATION AND PRESSURE OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT

PROVIDE AUTOMATIC SHUT-OFF VALVE ON GAS LINE FEEDING KITCHEN EQUIPMENT BELOW TYPE-1 HOOD PRIOR TO ANY TAKE OFF. VALVE SHALL BE

PROVIDE DRAIN PANS FOR ALL WATER LINES CROSSING OVER "IT" CLOSET/ROOM. ROUTE DRAIN PAN(S) TO NEAREST APPROVED WASTE RECEPTICAL

PROVIDE DRAIN PANS FOR ALL OVER HEAD DRAIN PIPING CROSSING OVER KITCHEN. ROUTE DRAIN PAN(S) TO NEAREST APPROVED WASTE RECEPTICAL

ANY LINE VOLTAGE WIRING THAT IS RUN BY THE PLUMBING CONTRACTOR SHALL BE INSTALLED IN ACCORDANCE WITH THE ELECTRICAL PLANS, NOTES,

THE PLUMBING CONTRACTOR SHALL INSPECT EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY SIZE AND LOCATION OF ALL EXISTING

CAMERA SURVEY ALL EXISTING SANITARY SEWER LOCATIONS AND INVERTS BELOW SLAB OR GRADE. NOTIFY GENERAL CONTRACTOR OF ANY

39 THE EXISTING PIPING INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES

NOT BE LIMITED TO THE FOLLOWING: AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE BASE OF EACH RISER.

THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.

19 ALL PIPING ON ROOF SHALL BE ANCHORED TO STEEL RIB FASTENERS APPROVED BY THE ROOF MANUFACTURER. INSTALL ANCHORS PER

20 ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S

THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND

UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER

MANUFACTURER'S RECOMMENDATIONS. ISOLATION VALVES SHALL BE INSTALLED ON ALL SUPPLY FIXTURE GROUPS AND HOT WATER BALANCING

ALL SANITARY, GREASE, LAB, AND ACID WASTE PIPING SHOWN IS BELOW SLAB, BELOW FLOOR, OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL

FROST PROOF HOSE BIBBS AND SUPPLY PIPING SHALL BE INSTALLED ON THE INSIDE OF THE INSULATION. SEAL SHEATHING PENETRATION TO PREVENT

EXPOSED OVERHEAD, AND WITHIN WALLS UNLESS OTHERWISE NOTED. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT DISHWASHERS, WASHING

THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL/ARKANSAS PLUMBING CODE

GENERAL WHA NOTES:

LOCATE THE WHA IN A MULTIPLE FIXTURE SYSTEM AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.

FOR REMOTE INSTALLATIONS THE WHA SHOULD BE PLACED AS CLOSE TO THE POINT OF VALVE CLOSURE

AS POSSIBLE. INSTALL WHA's APPROVED FOR SEALED-WALL INSTALLATION ON WATER LINES CONNECTED TO

IDEALLY THE FLOW PRESSURE IN BRANCH LINES SERVING FIXTURES SHOULD NEVER EXCEED 55 P.S.I.G PROVIDE ACCESS PANEL AT EACH LOCATION WHERE THERE IS NOT AN ACCESSIBLE CEILING. MINIMUM SIZE OF 8" x 8".

SOLENOID VALVES OR FLUSH VALVES. SIZE, LOCATE

AND INSTALL IN ACCORDANCE WITH PDI STANDARD



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ELECTRICAL

REQUIREMENTS

115V, 1PH, 97 WATTS

115V, 60Hz

208V, 4.5KW, 1PH

PROJECT PHASE

09/21/2020 | 18-01.14

REVISIONS DESCRIPTION

SHEET NUMBER:

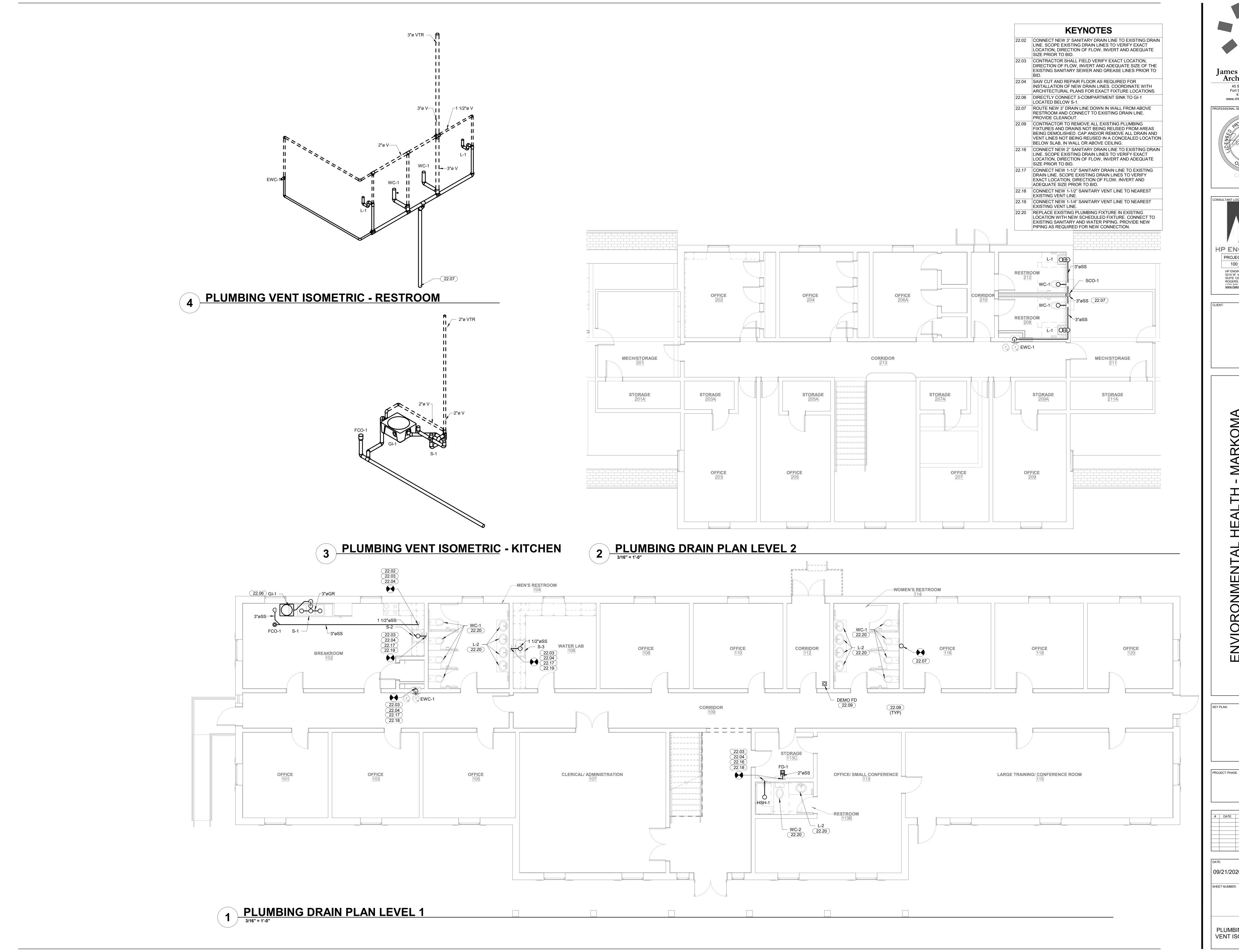
PLUMBING LEGENDS NOTES AND SCHEDULES

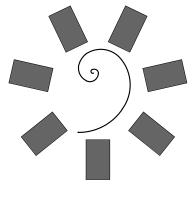
NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
S-1	3 Compartment Sink	16" x 20" x 14" (3)	1	13,440	21.82 GPM

21.82 GPM

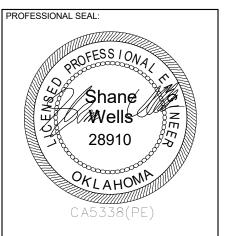
MODEL	Description: Polyethylene Grease Interceptor
	Dimensions: Length: 27", Width: 23", Height: 12"
1	Flow Rates/Grease Capacities: 25 GPM / 64.9 lbs
	Liquid Capacity: 10 gal

PLUM	BING PIPING INSULATION SCH	EDUL	.E				
		INSULATION THICKNESS NOMINAL PIPE SIZE					
DESCRIPTION	INSULATION TYPE	<1	1 TO <1-1/2	1-1/2 TO <4	4 TO <8	≥8	
DOMESTIC COLD WATER PIPING BELOW GRADE	PVC OR HDPE JACKET ONLY, NO INSULATION	1	1	1.5	1.5	1.5	
CONDENSATE PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	0.5	1	1	1	1.5	
PVC WASTE VENT AND WASTE DRAIN IN AIR PLENUM SPACE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	0.5	0.5	0.5	0.5	0.5	
WATER COOLER TRAPS, ALL EXPOSED LAVATORY AND SINK TRAPS, TAILPIECES, HOT AND COLD WATER SUPPLY LINES/ANGLE VALVES TO THESE DEVICES	EQUIVALENT TO TRUEBRO 102 E-Z PIPE COVER	0.125	0.125	0.125	0.125	0.125	
DOMESTIC HOT WATER AND HOT WATER RETURN PIPING BELOW GRADE	ELASTOMERIC OR FOAM. ENCAPSULATE WITH PVC OR HDPE JACKET	1	1	1.5	1.5	1.5	
DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	1	1	1.5	1.5	1.5	
PVC WASTE DRAIN IN WALLS, AND WASTE VENT IN ALL AREAS ABOVE GRADE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM F84 COMPLIANT JACKET	1"	1"	1.5"	1.5"	1.5"	





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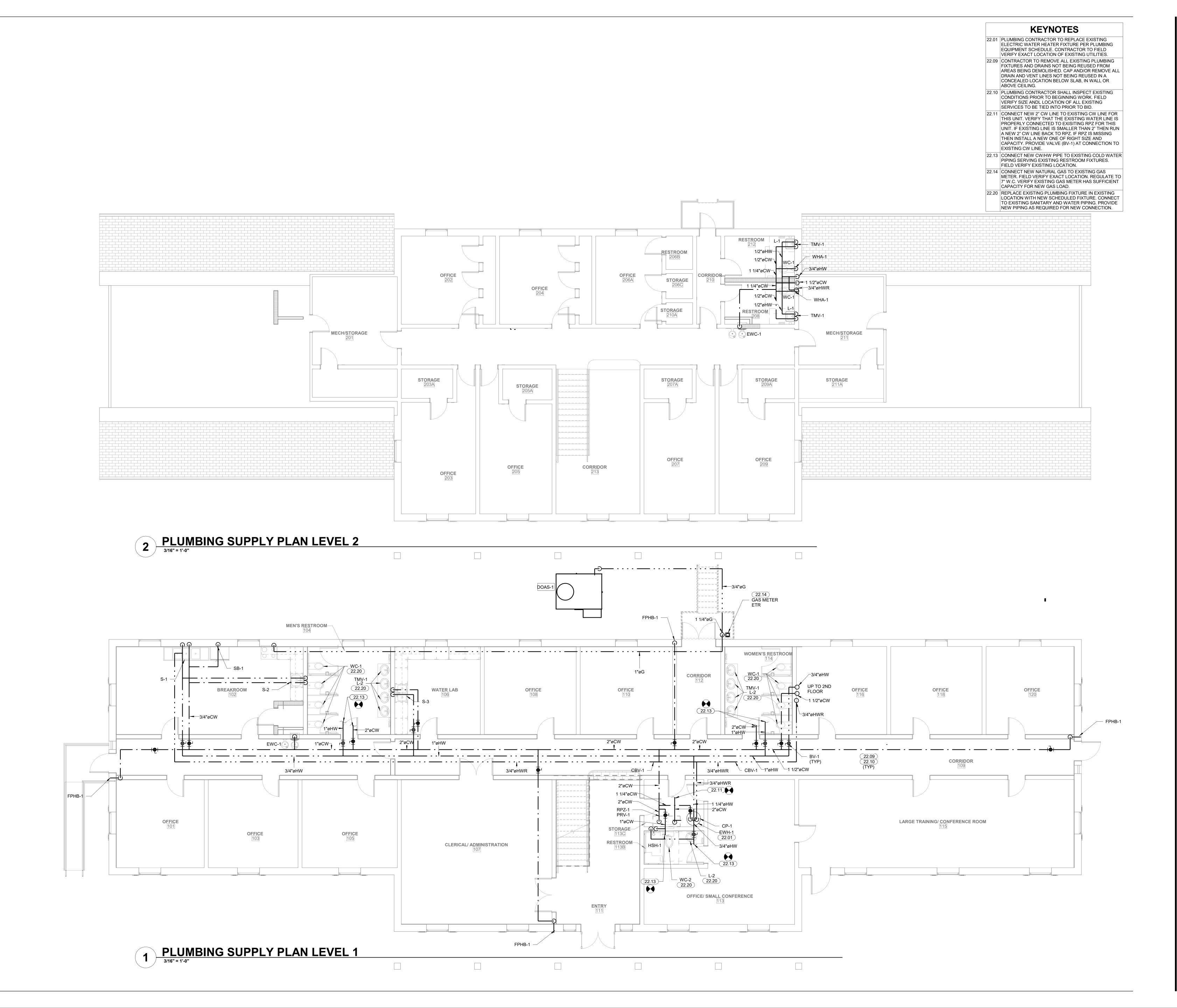


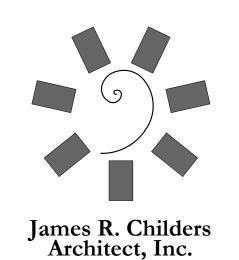


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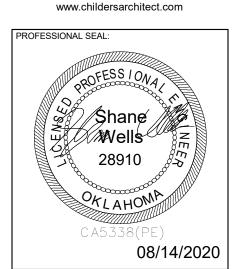
PLUMBING DRAIN AND VENT ISOMETRIC PLAN



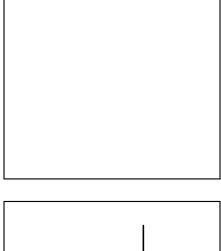


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MENTAL HEALTH - MARKON BUILDING

KEY PLAN:		

- 1	
1	PROJECT PHASE:

		REVISIONS
#	DATE	DESCRIPTION

DATE: JOB NUMBER: 09/21/2020 18-01.14

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P3.0

PLUMBING SUPPLY PLAN

' 	
	COMPRESSED AIR
	COLD WATER
	CONDENSATE
	FIRE
· · — — — — — —	FORCED MAIN
	GAS
· — — — — — — — — — — — — — — — — — — —	GREASE
i 	HOT WATER
	HOT WATER RETURN
	IRRIGATION
	MEDICAL AIR
————————————————————————————————————	MEDICAL NITROUS
	MEDICAL OXYGEN MEDICAL VACUUM
	MEDIUM PRESSURE GAS
<u> </u>	OVERFLOW DRAIN
·	RO WATER
	ROOF DRAIN
	SANITARY SEWER
 	VENT
lacksquare	CONNECT TO EXISTING
M	WATER/GAS METER
R	REGULATOR
	LINE CAP
	PRESSURE REDUCING VALVE
	DISCONNECT
<u> </u>	UNION
-151-	BALL VALVE
	MIXING VALVE
	CALIBRATED MIXING VALVE
UB-1/	UTILITY BOX/
SB-1	SUPPLY BOX
	CIRCULATION PUMP
 	FROST PROOF HOSE BIBB (FPHB-1)
+	HOSE BIBB (HB-1)
	ROOF DRAIN
	ROOF OVERFLOW DRAIN
	DOWNSPOUT NOZZLE
FD-1	FLOOR DRAIN
SWD-1	SAFE WASTE DRAIN
	FLOOR SINK
WCO-1/ SCO-1	WALL CLEAN OUT/ STACK CLEAN OUT
FCO	FLOOR CLEANOUT
COTG-1/ TWCO-1	CLEAN OUT TO GRADE/ TWO-WAY CLEAN OUT
X	INDICATES DETAIL NUMBER
X -	INDICATES SHEET NUMBER
HOR. OR VERT.	BACKFLOW PREVENTER (RPZ-1)

CONTRACTOR TO COORDINATE **EQUPMENT SIZE AND ORIENTATION** WITH SPACE REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.

VRF NOTES

CONTRACTOR TO FIELD-VERIFY THE INSTALL ACCURATELY MATCHES THE MANUFACTURERS SUBMITTAL DRAWINGS INCLUDING BUT NOT LIMITED TO ALL REFRIGERANT PIPE SIZES, PIPE ELBOWS, PIPE LENGTHS, PIPE RISE/FALL AND RELATIVE EQUIPMENT ELEVATIONS. IF INSTALL DOES NOT MATCH CONTRACTOR TO OBTAIN REVISED MANUFACTURERS SUBMITTAL DRAWINGS. REVISED MANUFACTURERS DRAWINGS BE SUBMITTED TO THE ENGINEER BEFORE PRESSURE AND VACUUM TESTING.

PRESSURE AND VACUUM TESTING TO BE PERFORMED PER MANUFACTURER'S RECOMMENDATIONS AFTER ALL PIPING IN THE SYSTEM IS INSTALLED(NOT IN SECTIONS).

CONTRACTOR TO SCHEDULE FOR THE ENGINEER TO WITNESS PRESSURE AND VACUUM TESTING OF REFRIGERANT PIPING FOR APPROVAL RESULTS BEFORE EVACUATING AND FILLING. CONTRACTOR TO ASSIST THE ENGINEER AS REQUIRED IN VERIFICATION OF TESTING RESULTS. VRF SYSTEM PRESSURE AND VACUUM TESTING SHOULD BE RECORDED, DOCUMENTED AND SUBMITTED TO THE

ENGINEER BEFORE APPROVAL AND BEFORE EVACUATING AND FILLING. EVACUATION AND REFRIGERANT FILL SHOULD BE DOCUMENTED AND SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE START-UP.

ALL REFRIGERANT CONNECTIONS TO BE PERFORMED WITH THE MANUFACTURER RECOMMENDED PIPE FLARING

CONTRACTOR TO SCHEDULE AFTER SEASON CHANGE (+/- 6 MONTHS) AND INCLUDE IN BID TO RETURN TO THE SITE AND TORQUE ALL VALVES AND CONNECTIONS IN THE REFRIGERATION SYSTEM TO THE MANUFACTURERS RECOMMENDED TORQUE SETTING.

SOFT PIPING IS NOT TO BE BUNDLED TOGETHER, PROVIDE A MIN OF 2" SPACING. PROVIDE EXPANSION CONTROL ON HARD PIPING PER MANUFACTURERS RECOMMENDATIONS BRANCH TAKEOFFS TO EACH INDOOR UNIT TO BE INSTALLED WITH SHUTOFF VALVES. ALL SHUTOFF VALVES TO

BE APPROVED BY THE MANUFACTURER.

INSTALLING CONTRACTOR HAVE ATTENDED MANUFACTURERS INSTALLATION COURSE. CONTRACTOR TO BE CERTIFIED BY MANUFACTURER TO RECEIVE FULL LENGTH WARRANTEE.

GENERAL NOTE: ALL RECTANGULAR DUCT SIZES SHOWN ARE THE AIRFLOW DIMENSIONS. DUCT DIMENSIONS DO NOT HAVE ALLOWANCES FOR THE INSULATION LINER WHERE APPLICABLE IN THE RECTANGULAR DUCTS. AT DUAL WALL DUCTS, THE DIMENSION SHOWN IS THE AIRFLOW DIMENSION AND DOES NOT HAVE ALLOWANCES FOR THE INSULATION	1:
THICKNESS.	1
NOTE: NO LINED DUCT IN KITCHEN	1
MECHANICAL DUCTWORK & INSULATION SCHEDULE	1

	MECHANICAL DUCTWO	RK & INSULATION SCHEDULE	
SERVICE	DUCT TYPE	INSULATION TYPE	INSULATION THICKNESS
ALL LOW PRESSURE CONSTANT VOLUME SUPPLY AIR DUCT FROM AIR HANDLER OR PACKAGED UNIT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
ALL RUNOUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES CONCEALED ABOVE CEILINGS	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
ALL RUNOUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES VISIBLE TO OCCUPIED SPACE	DOUBLE WALL SPIRAL WITH PERFORATED METAL LINER	FIBERGLASS EQUAL TO UNITED MCGILL ACOUSTIC - K27	1-1/2", R VALUE=6.0
ALL SUPPLY AIR DIFFUSERS (BACKSIDE, NOT EXPOSED TO SPACE)	N/A	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
FRESH AIR SUPPLY DUCT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER. N/A IF IN UNCONDITIONED SPACE	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
FRESH AIR EXHAUST DUCT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER. N/A IF IN UNCONDITIONED SPACE	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
RESTROOM EXHAUST DUCT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
EXTERIOR RECTANGULAR DUCT	GALVANIZED STEEL SEALED WITH MASTIC JOINT SEALER	RIGID DUCTBOARD WRAP WITH EMBOSSED ALUMINUM JACKET	2", R VALUE=6.0
EXTERIOR ROUND DUCT	GALVANIZED STEEL SEALED WITH MASTIC JOINT SEALER	FIBERGLASS WRAP WITH EMBOSSED ALUMINUM JACKET	2", R VALUE=6.0
ALL LOW PRESSURE RETURN AIR DUCT FROM AIR HANDLER OR PACKAGED UNIT	ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER	2" WRAP OR 1-1/2" LINER, R VALUE=6.0

	MECHANICAL P	IPING & INSULAT	ION SC	HEDULE			
TE: ALL EXTERIOR INSULATED PIPING TO BE	PROVIDED WITH ALUMINUM JACKET.				ULATION THICKI IOMINAL PIPE SI		
				1 TO	1-1/2 TO		
SERVICE	PIPING TYPE	INSULATION TYPE	<1	<1-1/2	<4	4 TO <8	≥8
QUIPMENT DRAINS, COOLING ONDENSATE LINES, AND OVERFLOWS	TYPE "L" HARD COPPER	ELASTOMERIC	0.5	0.5	1.0	1.0	1.0
FRIGERANT PIPING	COPPER REFRIGERANT PIPING	ELASTOMERIC	0.5	1.0	1.0	1.0	1.5
L OUTDOOR INSULATED PIPING	PROVIDE WITH EMBOSSED ALUMINUM JACKET OVER SCHEDULED INSULATION	PER SCHEDULE					

GENERAL MECHANICAL NOTES

SUBMISSION OF PROPOSAL IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE

ALL RECTANGULAR DUCT SIZES SHOWN ARE THE AIRFLOW DIMENSIONS. DUCT DIMENSIONS DO NOT HAVE ALLOWANCES FOR THE INSULATION LINER WHERE APPLICABLE IN THE RECTANGULAR DUCTS. AT DUAL WALL DUCTS, THE DIMENSION SHOWN IS THE AIRFLOW DIMENSION AND DEOS NOT HAVE ALLOWANCES FOR THE

INSULATION THICKNESS. ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES, RULES, REGULATIONS, AND ORDINANCES WHICH SHALL TAKE PRECEDENCE OVER THE PLANS IF CONFLICTS EXIST BETWEEN THEM. THE DRAWINGS INDICATE THE GENERAL LAYOUT REQUIREMENTS FOR EQUIPMENT, FIXTURES, PIPING. DUCTWORK, ETC. FINAL LAYOUT SHALL BE MODIFIED TO FIT ACTUAL SITE CONDITIONS. ALL REQUIRED REVISIONS SHALL BE RECORDED ON A DESIGNATED HARD COPY SET OF REDLINE PLANS TO BE KEPT CURRENT

TO JOBSITE PROGRESS. AT MINIMUM, THIS DOCUMENT SHALL BE UPDATED WEEKLY AND REDILY AVAILABLE FOR REVIEW AND REFERENCE. COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER CONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. PROVIDE LABOR TO RECEIVE UNLOAD. STORE. PROTECT. AND TRANSFER TO POINT OF INSTALLATION OF ANY OWNER-FURNISHED ITEMS. IN CASES OF EQUIPMENT SUBSTITUTION, CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL SYSTEMS AND COMPONENTS WILL FIT PROPERLY PRIOR TO FABRICATION OR ORDERING. INSTALLED DUCTS MAY BE

RESIZED BY THE CONTRACTOR TO FIT FIELD CONDITIONS AS LONG AS THE INSTALLED DUCTS SHALL HAVE EQUAL FRICTION LOSS TO THOSE SHOWN. RECTANGULAR DUCTS SHALL NOT BE CHANGED TO ROUND DUCTS. PROVIDE COMPLETE SHEET METAL SHOP DRAWINGS TO ENGINEER SHOWING ACTUAL DUCT SIZES, ARRANGEMENTS, AND UNIT LOCATIONS TO BE INSTALLED. THIS SHALL BE DONE PRIOR TO FABRICATION OR INSTALL ACOUSTIC TURNING VANES IN ELBOWS IN RECTANGULAR DUCTS 20" AND LARGER. INSTALL RADIUS

TYPE ELBOWS IN RECTANGULAR DUCTS SMALLER THAN 20". USE 45 DEGREE TAKE-OFF FITTINGS AT ALL ROUND SUPPLY BRANCH TAKEOFFS. PROVIDE BALANCE DAMPERS AT ALL SUPPLY DUCT RUNOUTS TO GRILLES. LOCATE AS FAR AS POSSIBLE FROM GRILLES IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS IN SOLID WALLS AND CEILINGS FOR BALANCING DAMPERS. USE FLEX DUCTS FOR FINAL CONNECTION TO ALL CEILING DIFFUSERS, AND WHERE NECESSARY, SIDEWALL

DIFFUSERS, AND LIMIT TO 6' MAX. LENGTHS. PROVIDE A COMPLETE AND OPERATING MECHANICAL SYSTEM, INCLUDING ALL INCIDENTAL ITEMS AND CONNECTIONS NECESSARY FOR PROPER OPERATION OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND

EVERY ITEM MAY NOT BE INDICATED. THE MECHANICAL INSTALLATION SHALL BE SAFE, RELIABLE, ENERGY EFFICIENT AND EASILY MAINTAINED WITH ADEQUATE PROVISIONS ALLOWED FOR ACCESS TO EQUIPMENT. THE MECHANICAL SYSTEM SHALL OPERATE QUIETLY WITH NOISE LEVELS BELOW THE CRITERIA RECOMMENDED FOR THE APPLICATION BY ASHRAE. PROVIDE CORRECTIVE ACTION AS REQUIRED TO REDUCE OBJECTIONABLE

NOISE OR VIBRATION.

13 UNDERCUT DOORS 3/4 INCH WHERE NO RETURN NOR EXHAUST GRILLE IS SHOWN TO ALLOW FOR AIR TRANSFER (DO NOT UNDERCUT FIREDOORS.)

14 REFER TO ARCH. PLANS AND DETAILS FOR EXACT LOCATION OF ALL WALL AND CEILING MOUNTED DEVICES. ADJUST LOCATION OF SIDEWALL DEVICES AS NECESSARY TO AVOID INTERFERENCE WITH MOLDING OR OTHER ELECTRICAL DEVICES.

15 WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE-RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS ULLISTED AND ACCEPTED BY LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOWN CORNING CORP "SILICONE ELASTOMER, RTV FOÁM, OR SIMILAR MATERIAL TO MAINTAIN FIRE RATING OF THE WALL OR FLOOR.

16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AND BEAM PENETRATIONS AS IT RELATES TO HIS 17 CONTRACTOR SHALL NOT INSTALL ANY MAINTENANCE ITEMS ABOVE HARD CEILINGS. THIS SHALL INCLUDE VALVES, DAMPERS, OR ANY OTHER ITEMS THAT REQUIRE ACCESS AFTER CONSTRUCTION IS COMPLETED. IF INSTALLATION ABOVE A HARD CEILING OF THESE ITEMS CANNOT BE AVOIDED, THEN PROVIDE CEILING ACCESS DOORS EQUAL TO ACUDOR MODEL FW-505 WHERE REQUIRED. AT FIRE-RATED WALLS, USE EQUIVALENT OF ACUDOR MODEL FB-5060. MINIMUM SIZE SHALL BE 12"x12". USE 18"x18" WHEN PERSONNEL ACCESS IS REQUIRED.

18 PROVIDE AN INSULATED BACK ON ALL THERMOSTATS AND TEMPERATURE SENSORS THAT ARE MOUNTED ON CMU OR HOLLOW WALLS. PROVIDE SHALLOW DEVICE EXTENSION BOX BEHIND T-STATS AND SENSORS ON MASONRY WALLS IN COMMERCIAL / RETAIL SPACES. 19 PROVIDE FIRE DAMPERS AT ALL FIRE-RATED WALLS AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL

DRAWINGS FOR FIRE BARRIER WALLS AND CEILINGS. 20 IF A CENTRAL FIRE ALARM SYSTEM IS REQUIRED FOR THIS PROJECT, MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS PROVIDED BY FIRE ALARM CONTRACTOR. REFER TO ELECTRICAL NOTES FOR EXACT REQUIREMENTS. MECHANICAL CONTRACTOR SHALL IDENTIFY A SET OF TERMINALS FOR EQUIPMENT SHUTDOWN ON ALL FAN POWERED EQUIPMENT REQUIRING SHUTDOWN CONTROLS. FIRE ALARM CONTRACTOR SHALL WIRE FROM DUCT MOUNTED SMOKE DETECTOR TO SHUTDOWN TERMINALS TO SHUT DOWN FAN OPERATION WHEN SMOKE IS DETECTED.

21 AT PENETRATIONS THROUGH FIRE WALLS: ANY NON-METALLIC PIPE OR DUCT SHOULD BE EXTERNALLY SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED ASSEMBLY, AND ANY SPACE BETWEEN THE SLEEVE AND THE ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900, OR FLAME STOPPER 5000. REFER TO ELECTRICAL DRAWINGS FOR SMOKE DAMPER AND FIRE/SMOKE DAMPER DETAIL. MECHANICAL

CONTRACTOR SHALL PROVIDE AND INSTALL ALL DAMPERS WITH MOTORIZED ACTUATORS AND INSTALL SMOKE DETECTORS AND PROVIDE WIRING FOR FAN SHUTDOWN CONTROLS. COORDINATE WITH ELECTRICAL CONTRACTOR AND PROVIDE DAMPER ACTUATOR COMPATIBLE WITH ELECTRICAL WIRING PROVIDED. PROVIDE ANY WIRING OR COMPONENTS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR THAT ARE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

AHEAD OF ALL VAV BOX INLETS, INSTALL STRAIGHT DUCT EQUIVALENT TO AT LEAST 2 DIAMETERS IN LENGTH WHETHER SHOWN ON PLANS OR NOT. SEISMIC PROTECTION FOR CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO

MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURERS'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY

NO RECTANGULAR DUCT SMALLER THAN 10"X10" ANY LINE VOLTAGE WIRING THAT IS RUN BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED IN

PH

ACCORDANCE WITH THE ELECTRICAL PLANS, NOTES, AND SPECIFICATIONS. WHERE DUCTS PASS THROUGH FIRE RATED WALLS AND NO FIRE DAMPER IS REQUIRED, PROVIDE A STEEL SLEEVE (MIN. 12" LONG BY 0.60" THICK) IN EACH DUCT OPENING PER IBC 714.

CONTROL

ON WITH

LIGHT SWITCH

ON WITH

LIGHT SWITCH

ON WITH

LIGHT SWITCH

ON WITH LIGHT SWITCH

ON WITH

LIGHT SWITCH

LIGHT SWITCH

ON WITH A,F,G,I

SONES

TYPE

A,F,G,I

	AIR DEVICE SCHEDULE													
TAG	DESCRIPTION	MFR	MODEL	FACE SIZE	FRAME SIZE	NECK SIZE	MATERIAL/ FINISH							
	CEILING DIFFUSER, LOUVERED FACE, ADJUSTABLE	TITUS	TDCA-AA	18x18	24x24	8	ALUMINUM/ WHITE							
	CEILING DIFFUSER, LOUVERED FACE, ADJUSTABLE	TITUS	TDCA-AA	9x9	24x24	6	ALUMINUM/ WHITE							
	CEILING DIFFUSER, LOUVERED FACE, ADJUSTABLE	TITUS	TDCA-AA	18x18	24x24	10	ALUMINUM/ WHITE							
	CEILING DIFFUSER, LOUVERED FACE, ADJUSTABLE	TITUS	TDCA-AA	18x18	24x24	12	ALUMINUM/ WHITE							
LD-1	Architectural Linear Diffuser	Titus HVAC	FL-10	4FT	1" SLOT	N/A	ALUMINUM/RE F ARCH							
LR-1	Architectural Linear Diffuser	Titus HVAC	FL-10	4FT	1" SLOT	N/A	ALUMINUM/RE F ARCH							
	RETURN GRILLE, EGGCRATE CORE - 1/2x1/2x1/2	TITUS	50F	22x22	24x24	N/A	ALUMINUM/ WHITE							
	SIDEWALL SUPPLY DIFFUSER. DOUBLE DEFLECTION 3/4" O.C. SPACING. FRONT BLADES PARALLEL TO SHORT DIMENSION.	TITUS	272	6x6	8x8	N/A	ALUMINUM/ WHITE							
	SIDEWALL RETURN GRILLE HEAVY DUTY 38° DEFLECTION 1/2" O.C. SPACING. BLADES PARALLEL TO LONG DIMENSION	TITUS	33	30x6	33x9	N/A	STEEL/ WHITE							

GENERAL NOTES APPLICABLE TO ALL UNITS: 1. COORDINATE AIR DEVICE DEFLECTION ADJUSTMENTS WITH THE MECHANICAL ENGINEER DURING AIR BALANCE. PROVIDE 2" FACTORY FIBERGLASS WRAP ON ALL SUPPLY DIFFUSERS WITH BACKSIDE NOT EXPOSED TO SPACE.

9. EQUALS PER SPECIFICATIONS.

3. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.

4. ALL AIR DEVICES ARE 4-WAY THROW UNLESS OTHERWISE NOTED IN SCHEDULES OR WITH FLOW ARROWS ON DRAWINGS. 5. REFER TO SPECIFICATIONS FOR APPROVED ALTERNATES.

8. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN TO PROVIDE APPROPRIATE FRAME TYPE AND MOUNTING ACCESSORIES.

6. BRANCH DUCT SIZE SHALL BE SAME AS NOTED DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE. PROVIDE TRANSITION WHERE DUCT SIZE DIFFERS FROM NECK SIZE. 7. WHERE FINISH AND COLOR ARE NOTED TO BE SELECTED BY ARCHITECT/OWNER, THIS CONTRACTOR SHALL PROVIDE A COLOR PALETTE SAMPLE FOR FINAL APPROVAL WITH THE SUBMITTALS.

GENERAL NOTES APPLICABLE TO ALL UNITS:

MARK | DESCRIPTION | MFR

1. PROVIDE PRE-WIRED FACTORY MOUNTED INTEGRAL DISCONNECT DEVICE (NEMA 3R FOR EXTERIOR). 2. PROVIDE VARIABLE SPEED CONTROLLER (FACTORY INSTALLED IF AVAILABLE) ON ALL DIRECT DRIVE FANS FOR FAN BALANCING. 3. PROVIDE BELT TENSIONER ON ALL BELT DRIVE FANS.

DRIVE

4. PROVIDE WALL SLEEVE, FAN GUARD, EXTERIOR WEATHER HOOD AND MOTORIZED DAMPER WITH TIME DELAY CONTROLS ON ALL WALL MOUNTED PROPELLER FANS. 5. MOUNT FAN SPEED CONTROLLER IN ACCESSIBLE LOCATION ABOVE CEILING UNLESS OTHERWISE NOTED.

MODEL

6. PROVIDE ROOF CURB TO MATCH ROOF TYPE AND SLOPE AT ALL ROOF MOUNTED FANS.

CABINET EXHAUST | GREENHECK | CSP-A390-VG

CABINET EXHAUST | GREENHECK | CSP-A390-VG |

CABINET EXHAUST | GREENHECK | CSP-B110

CABINET EXHAUST | GREENHECK | CSP-B110

CABINET EXHAUST | GREENHECK | CSP-A110

CABINET EXHAUST | GREENHECK | CSP-A125

A PROVIDE BACKDRAFT DAMPER.

B PROVIDE MOTORIZED DAMPER WITH TIME DELAY FAN START. MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLING FAN, ROOF CURB, BACK DRAFT DAMPER, AND ALL INTERNAL POWER AND CONTROL WIRING AS REQUIRED TO PROVIDE FULLY OPERATIONAL FAN AND DAMPER.

EXHAUST FAN SCHEDULE

RPM

1030

1030

VOLTS

115 V

115 V

115 V

115 V

115 V

ESP

FLOW

PROVIDE WITH VARIABLE FREQUENCY DRIVE SAME SIZE AS LISTED MOTOR HORSE POWER. PROVIDE WITH INVERTER DUTY (NEMA MGI PART 31), MOTOR-MOUNTED GROUNDING RING. REFER TO VARIABLE FREQUENCY DRIVE SCHEDULE FOR SPECIFICS.

PROVIDE SPUN ALUMINUM VENT CAP, COOK MODEL "PR" WITH ROOF CURB.

E PROVIDE MANUFACTURER'S BRICK VENT. COLOR TO BE SELECTED BY ARCHITECT. PROVIDE MANUFACTURER'S WHITE ALUMINUM GRILLE.

G PROVIDE BIRD SCREEN. H PROVIDE ISOLATOR KIT.

PROVIDE MANUFACTURER'S WALL CAP.

PROVIDE GREASE COLLECTION CUP.

						GRO	DUND	MOUNTI	ED 100% OI	JTSIDE A	AIR UNIT	WITH C	SAS H	EATIN	G SCHE	DULE						
				SUPPLY F	AN			COIL			COOLING				HEATING			ELE	CTRICA	AL		
								00	MAX	EAT	COOLING			MBH	,							
								MIN FACE	PRESSURE	COOLING	LAT	AMBIENT	LAT	INPUT/		AMBIENT		VOLTS /			WEIGHT	CONTROL
Mark	MFR	MODEL	CFM	ESP	FAN HP	ROWS	FLUID	AREA	DROP (FT H2O)	DB/WB (F)	DB/WB (F)	DESIGN	DB (F)	OUTPUT	STAGES	DESIGN	EER	PHASE	MCA	MOCP	(LBS)	TYPE
DOAS-1	DAIKIN	DPS006A	750	1.2	1/4	4	R410A	6 SF	0.12 in-wg	100 / 78	51.6 / 51.6	100	88.6	80 / 64	MODULATING	10	12.7	208 / 3	26	40	1346	VRF CONTROLLER

GENERAL NOTES APPLICABLE TO ALL UNITS: 1. 100% OSA APPLICATION 2. SCCR MIN - 5K.

3. MODULATING HOT GAS REHEAT.

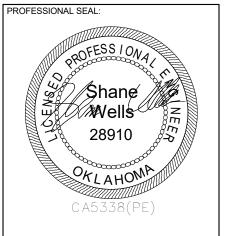
4. DIRECT DRIVEN DRIVE ECM SUPPLY FAN. 5. ECM EHAUST FAN. 6. STAINLESS STEEL DRAIN PAN.

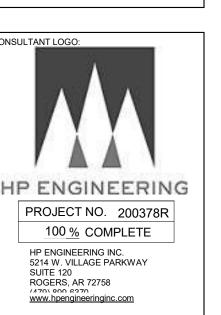
7. SINGLE POINT POWER. 8. FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH. 9. FACTORY MOUNTED NON-POWERED CONVENIENCE OUTLET.

12. INVERTER SCROLL COMPRESSORS.

10. HINGED ACCESS DOORS. 11. DOUBLE WALL, FOAM INSULATION.

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PROJECT PHASE:

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09/21/2020 18-01.14

SHEET NUMBER:

MECHANICAL SCHEDULES AND NOTES

		VRV ZC	NE HEAT I	RECOVE	RY DEV	ICE SCH	HEDULE		
CONDENSING MAX ELECTRICAL									
MARK	MFR	MODEL	UNIT SERVED	CAPACITY	VOLTS	PH	MCA	MOCP	WEIGH
BS-1	Daikin	BS10Q54TVJ	CU-1	54000	208 V	1	1	15	101.4
BS-2	Daikin	BS10Q54TVJ	CU-1	54000	208 V	1	1	15	101.4
BS-3	Daikin	BS12Q54TVJ	CU-1	54000	208 V	1	1.2	15	105.8

1. UNLIMITED NUMBER OF UNUSED PORTS PER BOX OR SYSTEM.
2. CONDENSATE DRAIN NOT ALLOWED - CONTRACTOR RESPONSIBLE FOR ALTERNATE MFR.
3. 10-YEAR WARRANTY ON ALL PARTS.

M-SCHEDULE	\/D\/		SCHEDIII
M-20UEDOFE	VKV	FAIN COIL	. SUNEDUL

A. FILTER BOX INTERGAL TO UNIT.
B. PROVIDE WITH MANUFACTURER'S FILTER BOX ACCESSORY.
ACCEPTABLE MANUFACTURERS AND REPRESENTATION

A.DAIKIN NORTH AMERICA | HARRISON ENERGY PARTNERS; SPRINGDALE, ARKANSAS B.LG | HOBBS & ASSOCIATES; SPRINGDALE, ARKANSAS

C.TRANE | TRANE ARKANSAS; SPRINGDALE, ARKANSAS

ANY SUBSTITUTIONS OR VARIATIONS FROM SCHEDULED EQUIPMENT OR REPRESENTATION MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO BID DATE.

			NOMINAL		OUTDOOR	COOLING CAPACITY	HEATING CAPACITY	AIR FLOW	VOLT /				WEIGHT
LOCATION	MFG	MODEL	TONNAGE	TYPE	UNIT	(BTU/H)	(BTU/H)	RATE CFM	PHASE	MCA	MOCP	CONTROL METHOD	(LBS)
AH-1.1	Daikin	FXZQ15TAVJU-BYFQ60B3W1	1.3	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	14323	17743	405	208 / 1	0.4	15	T-STAT / BAS	36.4
AH-1.2	Daikin	FXZQ15TAVJU-BYFQ60B3W1	1.3	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	14323	17743	405	208 / 1	0.4	15	T-STAT / BAS	36.4
AH-2	Daikin	FXZQ09TAVJU-BYFQ60B3W1	0.8	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-3	Daikin	FXZQ09TAVJU-BYFQ60B3W1	0.8	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-4	Daikin	FXZQ05TAVJU-BYFQ60B3W1	0.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	5455	6824	300	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-5	Daikin	FXZQ09TAVJU-BYFQ60B3W1	8.0	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-6	Daikin	FXZQ05TAVJU-BYFQ60B3W1	0.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	5455	6824	300	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-7	Daikin	FXZQ05TAVJU-BYFQ60B3W1	0.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	5455	6824	300	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-8	Daikin	FXZQ18TAVJU-BYFQ60B3W1	1.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	17048	20814	511	208 / 1	0.6	15	T-STAT / BAS	41.9
AH-9	Daikin	FXZQ05TAVJU-BYFQ60B3W1	0.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	5455	6824	300	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-10	Daikin	FXZQ05TAVJU-BYFQ60B3W1	0.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	5455	6824	300	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-11	Daikin	FXZQ18TAVJU-BYFQ60B3W1	1.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	17048	20814	511	208 / 1	0.6	15	T-STAT / BAS	41.9
AH-12	Daikin	FXZQ05TAVJU-BYFQ60B3W1	0.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	5455	6824	300	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-13	Daikin	FXZQ09TAVJU-BYFQ60B3W1	0.8	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-14	Daikin	FXZQ09TAVJU-BYFQ60B3W1	0.8	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-15	Daikin	FXZQ09TAVJU-BYFQ60B3W1	0.8	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-16	Daikin	FXZQ05TAVJU-BYFQ60B3W1	0.5	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	5455	6824	300	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-17.1	Daikin	FXZQ15TAVJU-BYFQ60B3W1	1.3	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	14323	17743	405	208 / 1	0.4	15	T-STAT / BAS	36.4
AH-17.2	Daikin	FXZQ15TAVJU-BYFQ60B3W1	1.3	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	14323	17743	405	208 / 1	0.4	15	T-STAT / BAS	36.4
AH-18	DAIKIN	FXAQ07PVJU	0.6	WALL MOUNTED UNIT	CU-1	7095	8700	260	208 / 1	0.3	15	T-STAT / BAS	26.5
AH-19	Daikin	FXZQ09TAVJU-BYFQ60B3W1	0.8	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-20	Daikin	FXZQ09TAVJU-BYFQ60B3W1	0.8	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-21	Daikin	FXZQ09TAVJU-BYFQ60B3W1	0.8	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-22	Daikin	FXMQ18PBVJU	1.5	CEILING MOUNTED DUCTED (MEDIUM STATIC)	CU-1	17041	20746	635	208 / 1	1.6	15	T-STAT / BAS	79.4
AH-23	DAIKIN	FXAQ07PVJU	0.6	WALL MOUNTED UNIT	CU-1	7095	8700	260	208 / 1	0.3	15	T-STAT / BAS	26.5
AH-24	Daikin	FXMQ12PBVJU	1	CEILING MOUNTED DUCTED (MEDIUM STATIC)	CU-1	11372	13990	450	208 / 1	1.4	15	T-STAT / BAS	61.7
AH-25	Daikin	FXZQ12TAVJU-BYFQ60B3W1	1	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	11425	13990	353	208 / 1	0.4	15	T-STAT / BAS	36.4
AH-26	Daikin	FXZQ09TAVJU-BYFQ60B3W1	8.0	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-27	Daikin	FXZQ09TAVJU-BYFQ60B3W1	8.0	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	9036	10919	317	208 / 1	0.3	15	T-STAT / BAS	35.3
AH-28	Daikin	FXZQ12TAVJU-BYFQ60B3W1	1	4-WAY DISCHARGE CIELING CASSETTE (2'X2')	CU-1	11425	13990	353	208 / 1	0.4	15	T-STAT / BAS	26.5

	VRV HEAT RECOVERY CONDENSING UNIT SCHEDULE																				
						RATED C		RATED HEATING CONNECTED INDOOR CAPACITY UNITS			MODU	DDULE A MODULE B		JLE B		EFFIC	IENCY				
				# OF MODULE	NOMINAL	COOLING CAPACITY		HEATING CAPACITY	AMBIENT	CONNECTION		VOLT /					MIN			CONTROL	WEIGH
MARK	DESCRIPTION	MFG	MODEL	S	TONS	(BTU/H)	(F)	(BTU/H)	DESIGN	RATIO	# UNITS	PHASE	MCA	MOCP	MCA	MOCP		(EER) / (IEER)	COP (47) / (17)		(LB)
CU-1	AIR COOLED HEAT RECOVERY	Daikin	REYQ192XATJU	2	20	240842	95	218776	32	129.2	28	208/3	43	50	43	50	N/A	(11.6,11.7)/(22.2,20)	(3.68,3.39)/(2.34,2.16)		727/727

GENERAL NOTES APPLICABLE TO ALL UNITS: 1. PROVIDE ANTI-RECYCLE TIMERS, LOW AMBIENT CONTROLS, TXV AND COIL HAIL GUARDS.

2. PROVIDE 4" CONCRETE PAD. 3. CONTROLLED THROUGH BACNET BAS FRONT END. 4. SYSTEM MUST PROVIDE CONTINUOUS HEATING DURING DEFROST AND OIL RETURN.

5. FULLY MODULATING INVERTER COMPRESSORS. 6. PROVIDE AUTO CHARGING AND INDOOR UNIT AUTO ADDRESSING CAPABILITY.
7. MFR SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS AND REFRIGERANT VOLUMES.

8. CONTRACTOR TO FURNISH AND INSTALL INSULATION ON REFRIGERANT PIPING. 9. MFR MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230.

10. SYSTEM RATING DATA BASED ON DESIGN AMBIENT CONDITIONS FOR COOLING AND FOR HEATING.

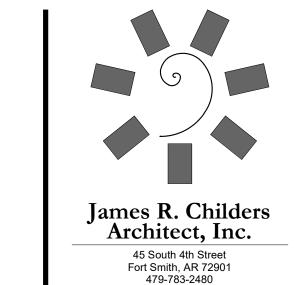
11. SUBMITTED DATA MUST BE DE-RATED FOR ALL COMPONENTS AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO, LINE LENGTH, VERTICAL SEPARATION, CONNECTION RATIO, DESIGN CONDITIONS, CONDENSOR COIL COATING.

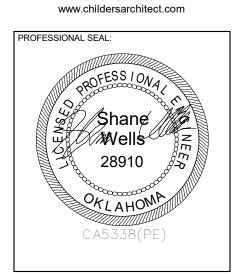
12. CONDENSING UNITS MUST HAVE FULLY MODULATING INVERTER COMPRESSORS.

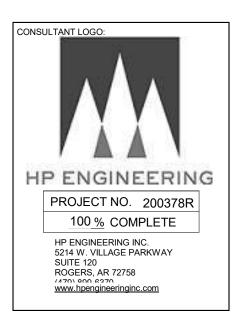
13. CONDENSING UNITS MUST HAVE AUTO CHANGOVER FUCTIONS. 14. DEMAND LIMITING RELAY CONTACT MUST BE PROVIDED. 15. EEV ACTUATORS MUST BE REMOVABLE FROM VALVE BODY WITHOUT DISTURBING THE REFRIGERANT SYSTEM.

16. FCU THERMOSTATS MUST PROVIDE +/- 1 DEGREE DEAD-BAND SET-POINT AND CONTROL CAPABILITY. 17. SYSTEM SHALL BE PROVIDED WITH I-TOUCH MANAGER CONTROLLER WITH WEB BASED SOFTWARE FOR DISPLAYING UP TO 8 DIII-NET SYSTEMS WITH 128 INDOOR UNITS PER SYSTEM. PC BY OTHERS.

18. CONTRACTOR TO VERIFY PIPING DIMENSIONS. 19. CONTRACTOR TO FURNISH AND INSTALL INSULATION ON REFRIGERANT PIPING.





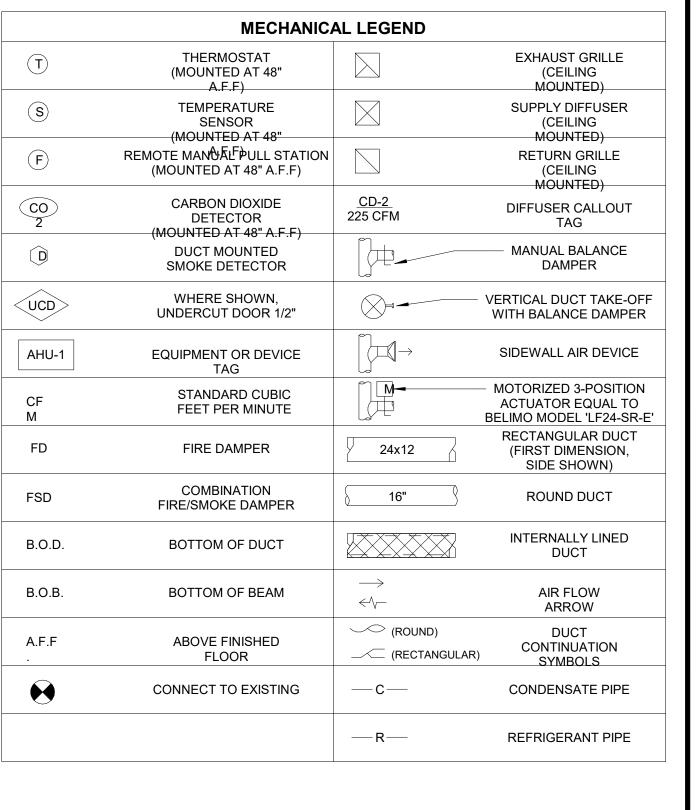


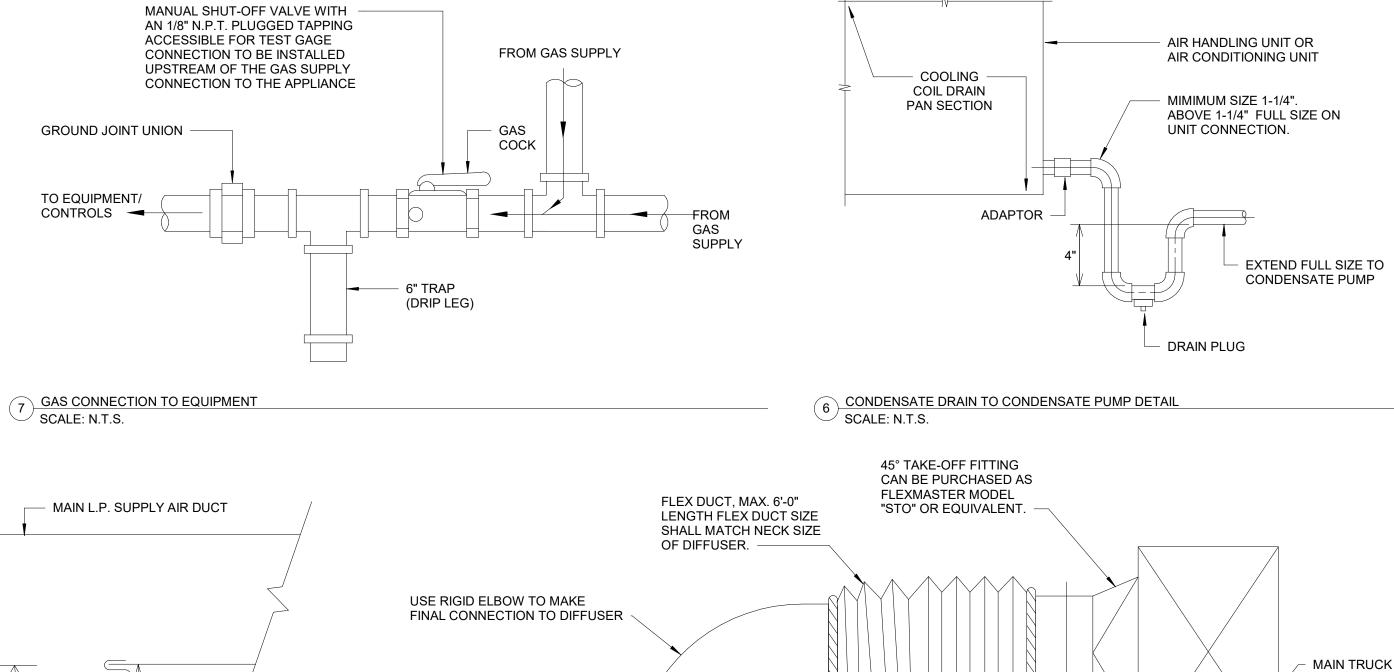
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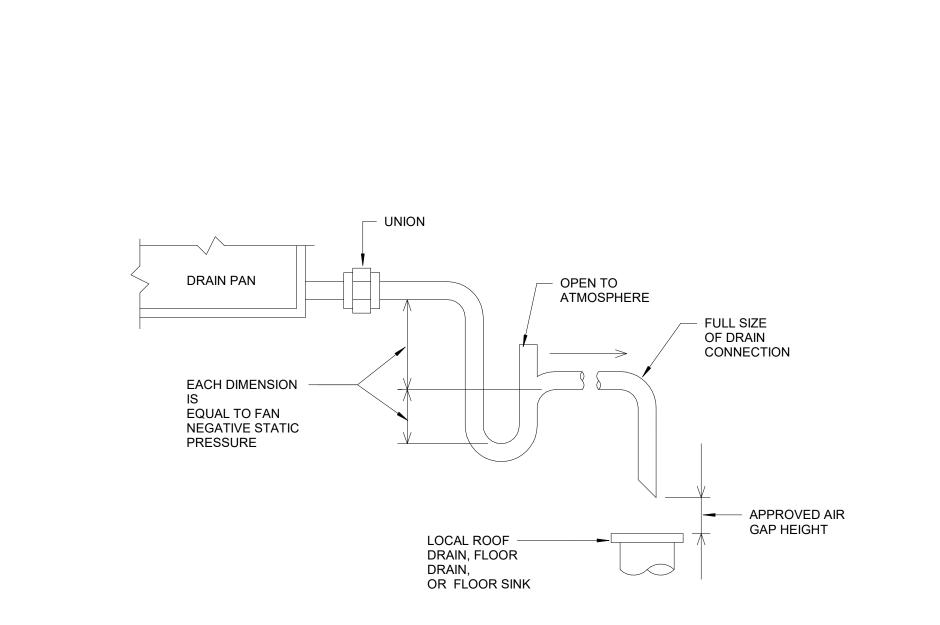
09/21/2020 18-01.14 SHEET NUMBER:

MECHANICAL SCHEDULES

	MECHANICA	AL LEGEND	
T	THERMOSTAT (MOUNTED AT 48" A.F.F)		EXHAUST GRILLE (CEILING MOUNTED)
S	TEMPERATURE SENSOR (MOUNTED AT 48"		SUPPLY DIFFUSER (CEILING MOUNTED)
F	REMOTE MAN DELPOULL STATION (MOUNTED AT 48" A.F.F)		RETURN GRILLE (CEILING MOUNTED)
CO 2	CARBON DIOXIDE DETECTOR (MOUNTED AT 48" A.F.F)	<u>CD-2</u> 225 CFM	DIFFUSER CALLOUT TAG
D	DUCT MOUNTED SMOKE DETECTOR		— MANUAL BALANCE DAMPER
UCD	WHERE SHOWN, UNDERCUT DOOR 1/2"		VERTICAL DUCT TAKE-OFF WITH BALANCE DAMPER
AHU-1	EQUIPMENT OR DEVICE TAG	$\bigcirc \longrightarrow$	SIDEWALL AIR DEVICE
CF M	STANDARD CUBIC FEET PER MINUTE	M	 MOTORIZED 3-POSITION ACTUATOR EQUAL TO BELIMO MODEL 'LF24-SR-E
FD	FIRE DAMPER	24x12	RECTANGULAR DUCT (FIRST DIMENSION, SIDE SHOWN)
FSD	COMBINATION FIRE/SMOKE DAMPER	<u>16"</u>	ROUND DUCT
B.O.D.	BOTTOM OF DUCT		INTERNALLY LINED DUCT
B.O.B.	BOTTOM OF BEAM	<i>→ ←</i> \ <i>←</i>	AIR FLOW ARROW
A.F.F	ABOVE FINISHED FLOOR	(ROUND) (RECTANGULAR)	DUCT CONTINUATION SYMBOLS
Θ	CONNECT TO EXISTING	—c—	CONDENSATE PIPE
		—R—	REFRIGERANT PIPE

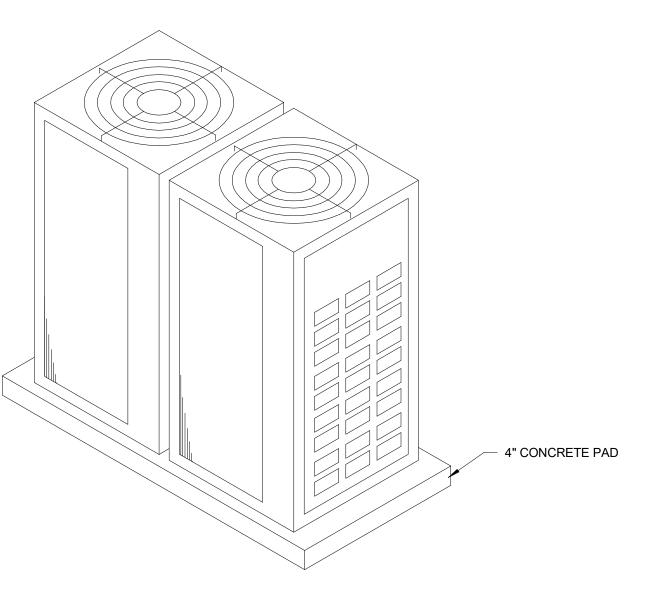




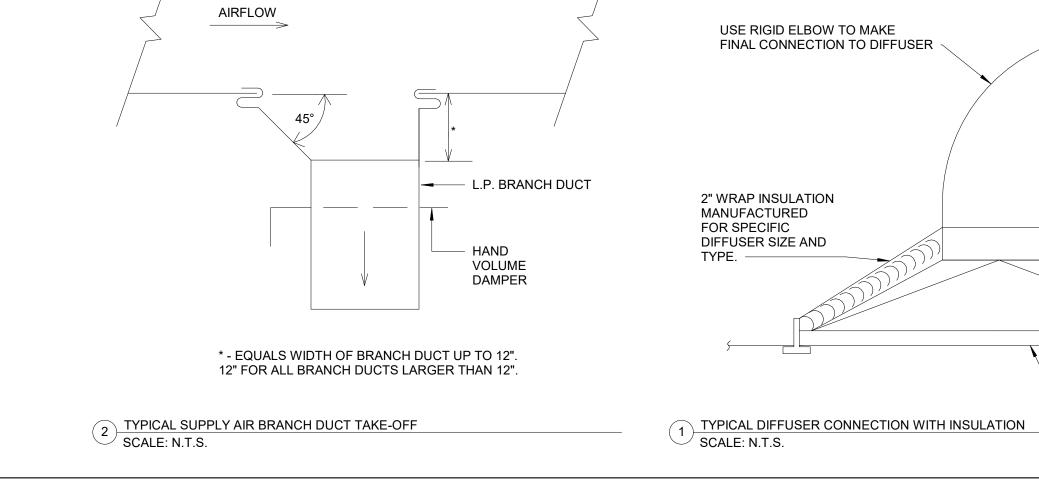


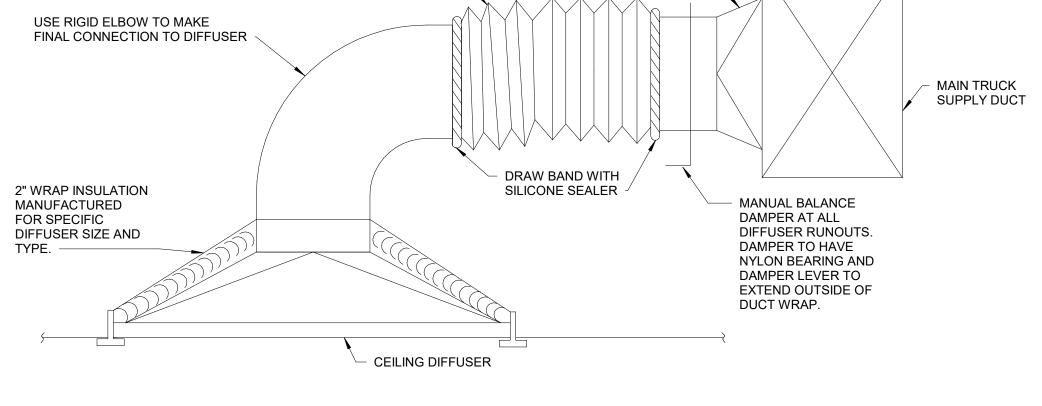
5 CONDENSATE DRAIN DETAIL SCALE: N.T.S.

0 4 1.0"



8 VRF CONDENSING UNIT DETAIL SCALE: N.T.S.





09/21/2020 18-01.14 SHEET NUMBER:

REVISIONS
DATE DESCRIPTION

PROJECT PHASE:

James R. Childers Architect, Inc.

45 South 4th Street Fort Smith, AR 72901 479-783-2480 www.childersarchitect.com

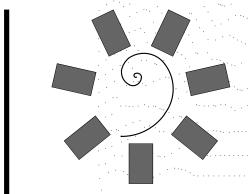
HP ENGINEERING PROJECT NO. 200378R 100 % COMPLETE

HP ENGINEERING INC. 5214 W. VILLAGE PARKWAY SUITE 120 ROGERS, AR 72758 (470) 900 6270 www.hpengineeringinc.com

PROFESSIONAL SEAL:

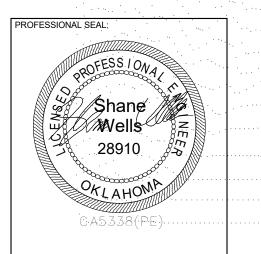
MECHANICAL LEGEND AND DETAILS

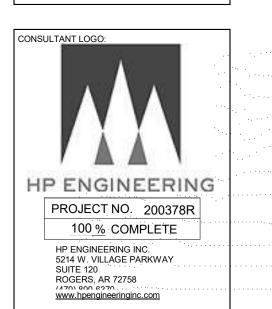
NOTES: **KEYNOTES** 1. REFRIGERANT LINES SHALL BE ROUTED FROM INDOOR COOLING COIL TO CORRESPONDING OUTDOOR CONDENSING UNIT ABOVE 23.01 PROVIDE 24" HOOD ABOVE CEILING AND THRU WALLS SO THAT THEY ARE NOT VISIBLE TO RANGE. MFR: BLUESTAR MODEL: OCCUPANT. BS-PL024V2. INSTALL 12" GREASE 2. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S DUCT THRU WALL WITH MFR VENT RECOMMENDATIONS FOR TONNAGE AND NOMINAL LENGTH OF CAP PROVIDE GARDIAN FIRE REFRIGERANT LINES. SUPRESSION SYSTEM WITH HOOD. 3. 1" CONDENSATE LINES SHALL BE ROUTED FROM INDOOR COOLING COILS DOWN EXTERIOR WALL TO 12" AFG AND DISCHARGE TO GRADE. . თ - - - - 3 RESTROOM—WALL CAP -WALL CAP CD-2 75 CFM CD-2 - WALL CAP 95 CFM MECH/STORAGE STORAGE DUCT FROM BELOW STORAGE 209A 6"ø 30 CFM ---6"ø 30 CFM 30 CFM LD-1 200 CFM WOMEN'S RESTROOM 6"ø 20 CFM 20 CFM AH-7 **→◎**|___| AH-16 - ROUTE DUCT TO ABOVE LEVEL. -10"x10" MEP LEVEL 2 109' - 0" 6"ø- 30 CFM STORAGE 30 CFM 6"ø--- 55 CFM 6"ø 20 CFM OFFICE 6"ø 20 CFM LARGE TRAINING/ CONFERENCE ROOM --6"ø 50 CFM AH-2 CLERICAL/ AH-3 AH-5 ADMINISTRATION AH-17.1 EF-3 MEP LEVEL 1 100' - 0" OFFICE/ SMALL AH-11 CONFERENCE WALL CAP 1/8" = 1'-0" 3 DOAS SECTION VIEW



James R. Childers
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1501 Graham Avenue

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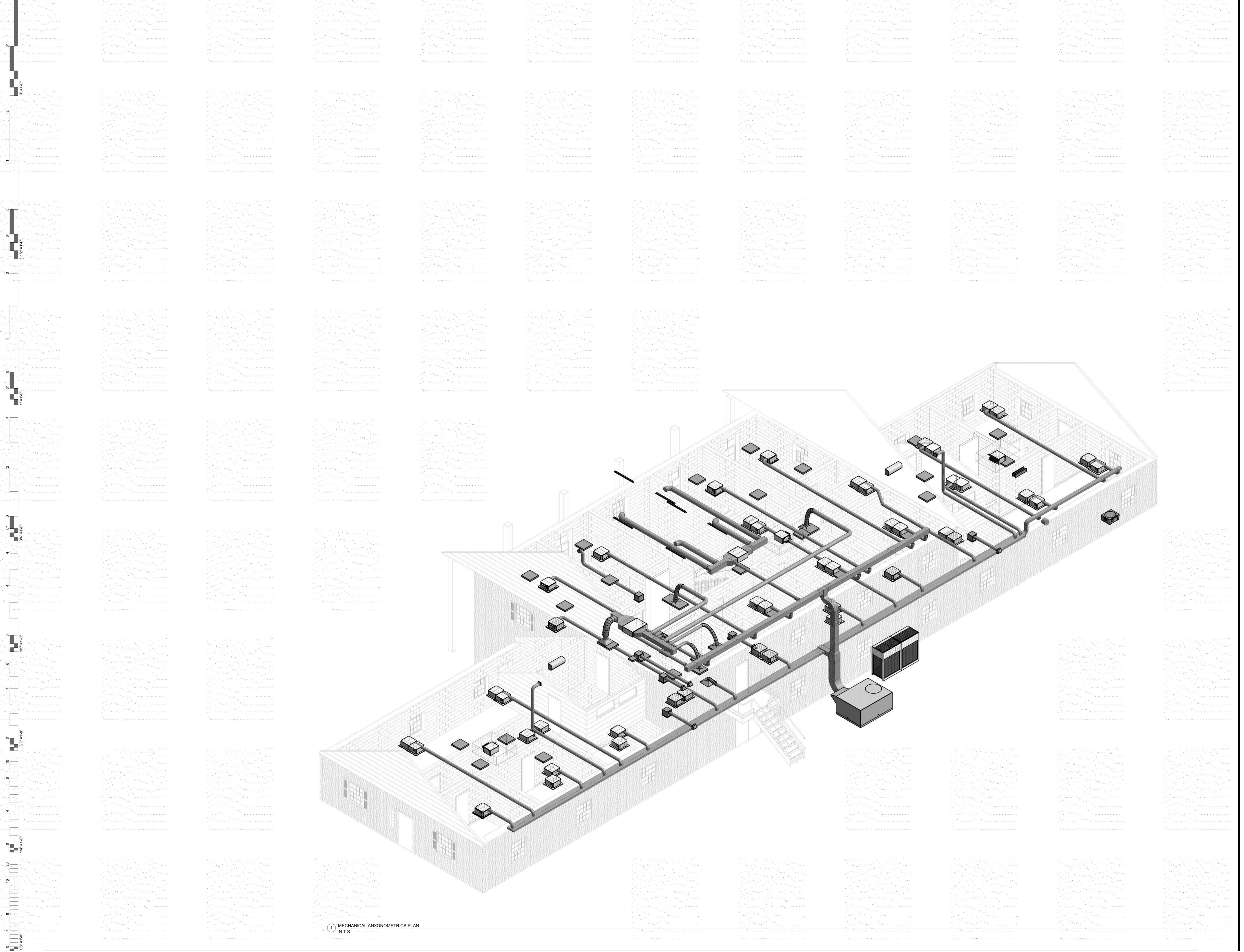
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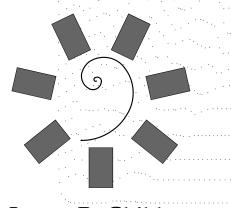
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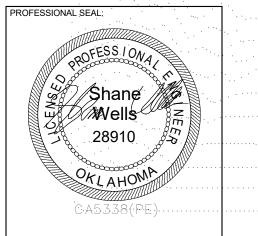
MECHANICAL HVAC FLOOR PLAN

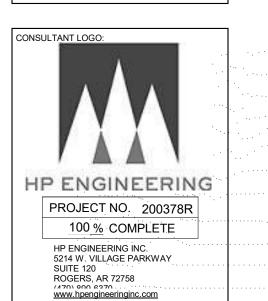




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1501 Graham Avenue Tahlequah, OK 7.

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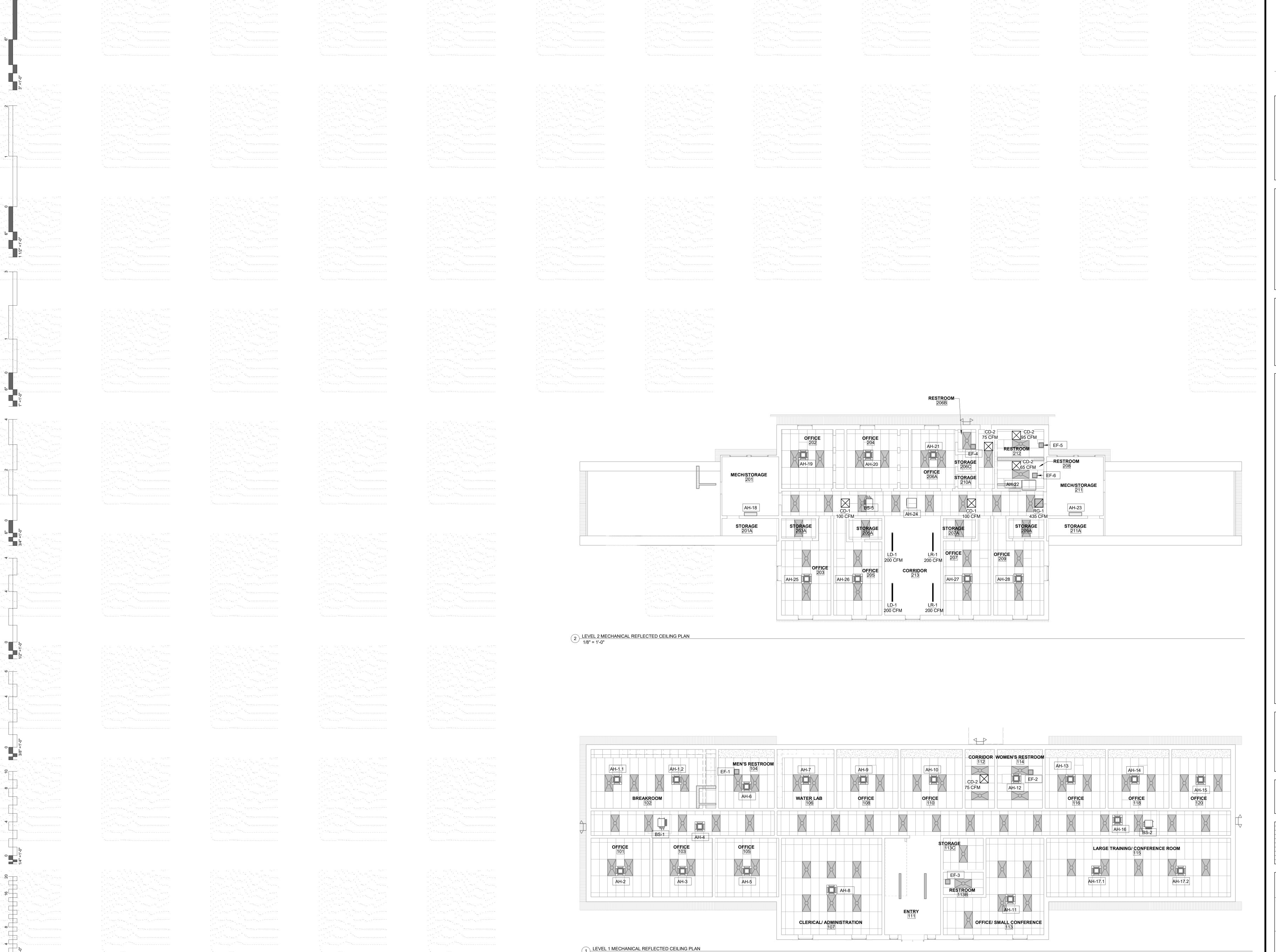
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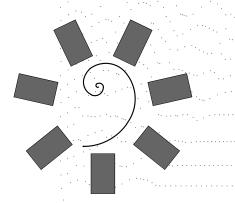
M2.2

MECHANICAL AXONOMETRIC PLAN

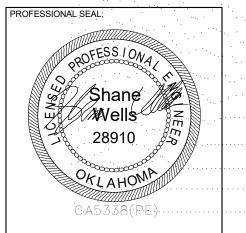


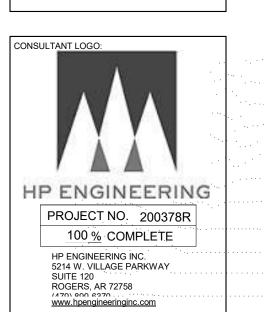
1/8" = 1'-0"

18/1



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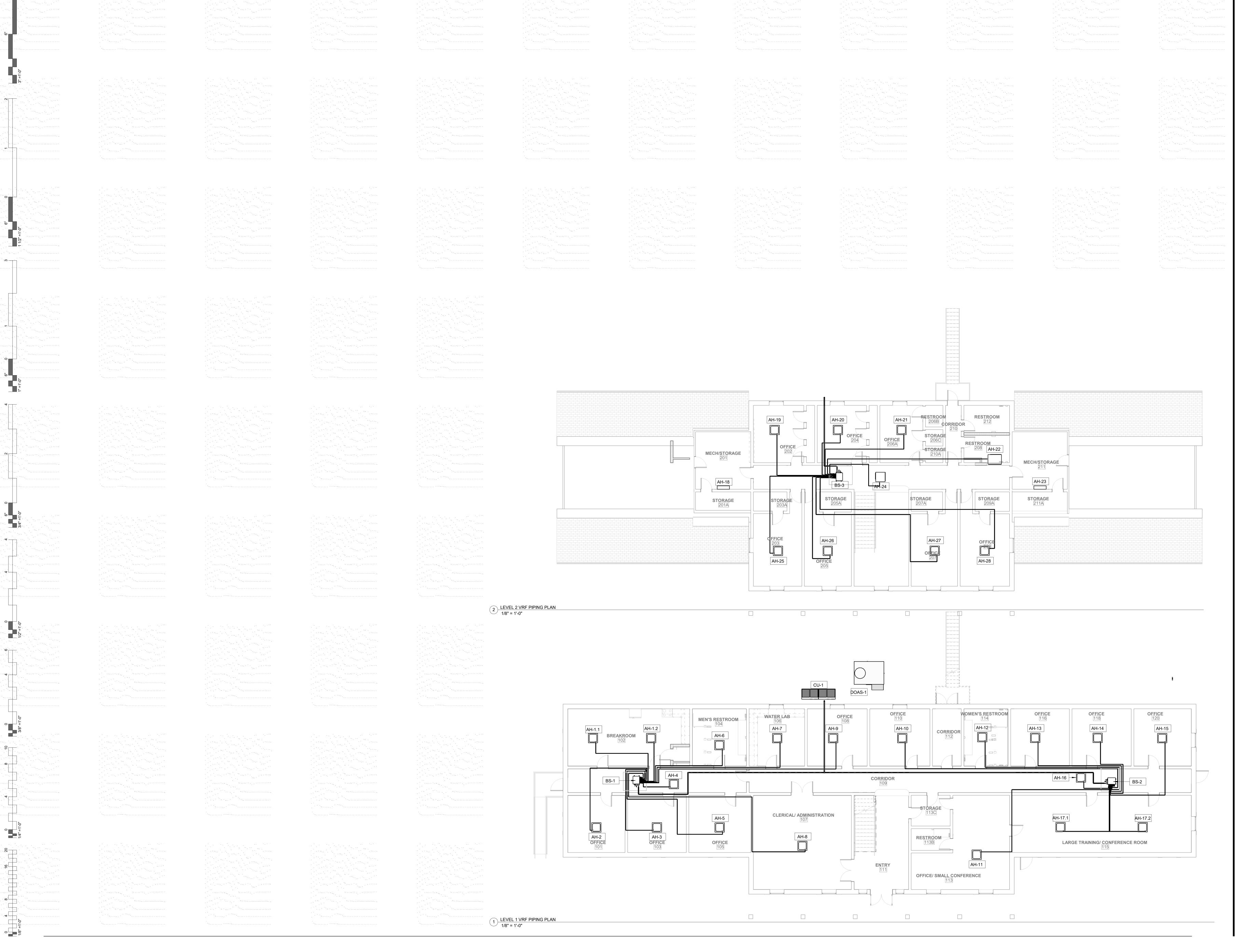
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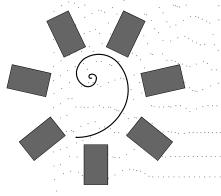
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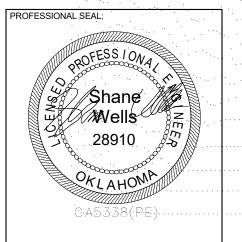
> MECHANICAL. REFLECTED CEILING PLAN

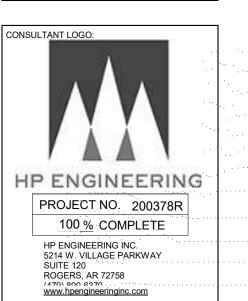




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KEY PLAN:

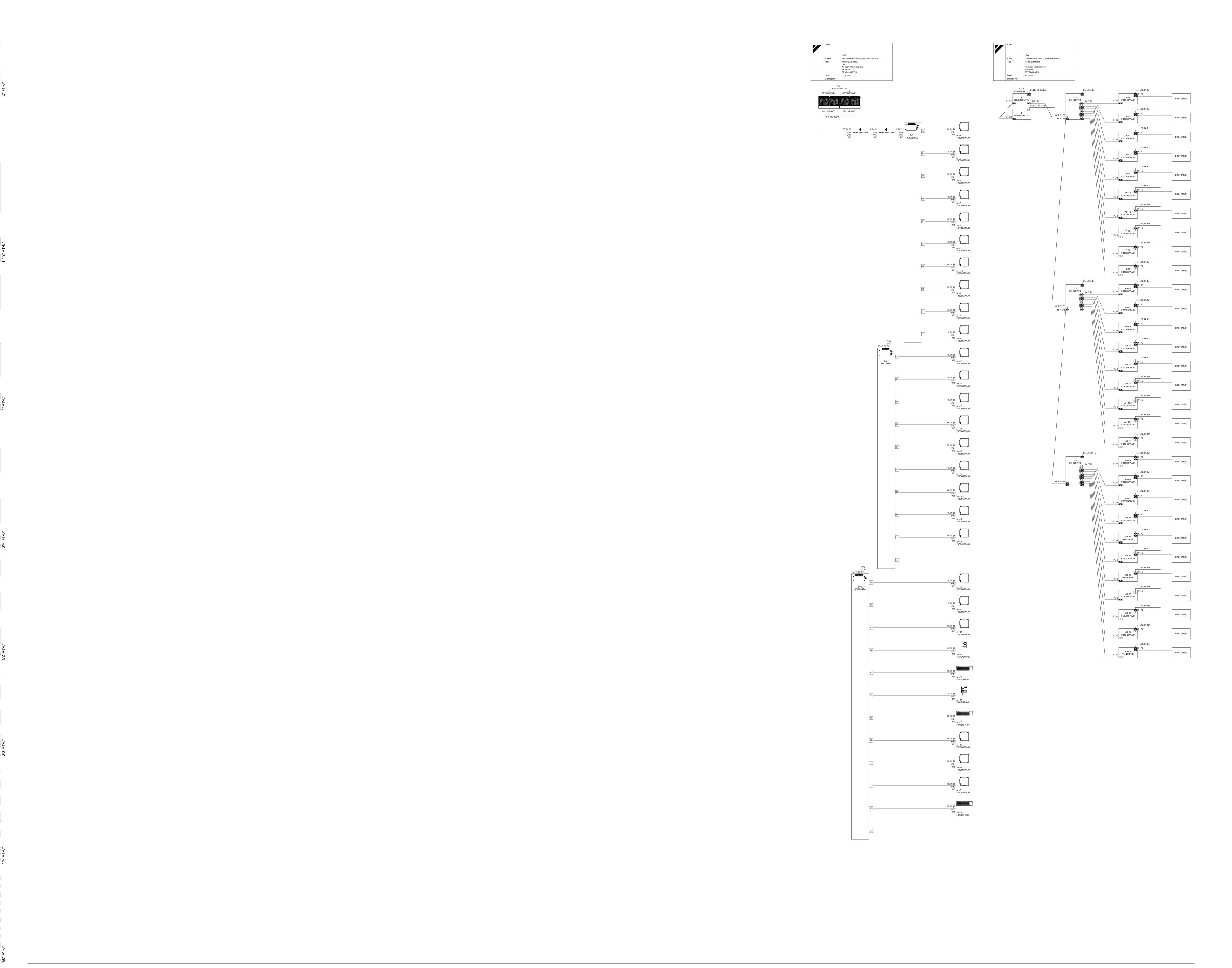
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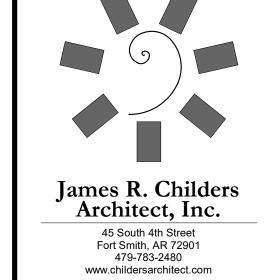
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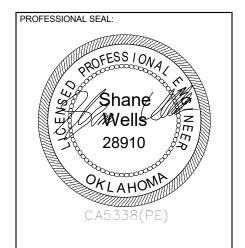
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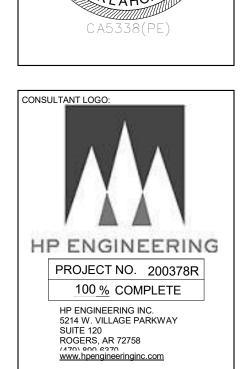
M2.4

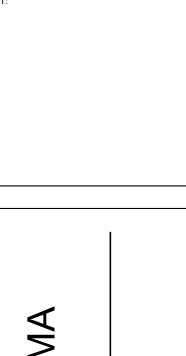
MECHANICAL VRF PIPING PLAN











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BUILDING

1501 Graham Avenue Tahlequah, OK 74464

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KEY PLAN:		
PROJECT PHASE:		

		REVISIONS
#	DATE	DESCRIPTION

DATE: JOB NUMBER: 09/21/2020 18-01.14

SHEET NUMBER:

IVIZ.3

VRF WIRING & PIPING DIAGRAMS

EXISTING ELECTRICAL AND DEMOLITION

PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE FACILITY AND RELATED SITE. REVIEW THE GENERAL NOTES AND ALL OTHER TRADE DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER, AS SPECIFIED, OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.

ANY EXISTING CONDITIONS REFLECTED WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS AND CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND **EXISTING CONDITIONS.**

PROVIDE ALL DEMOLITION OF EXISTING ELECTRICAL SYSTEMS AND NEW ELECTRICAL SYSTEM MODIFICATIONS REQUIRED BECAUSE OF BUILDING REMODELING, AS NOTED ON THE DRAWINGS, OR NECESSARY FOR PROPER OPERATION AND NEW CONSTRUCTION. REMOVE ALL ABANDONED CABLES AND WIRING ABOVE ACCESSIBLE CEILINGS AND VENTILATION SHAFTS. COORDINATE INTERUPTION OF ALL BUILDING SERVICES INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITS, DATA, TELEPHONE, ETC WITH BUILDING OWNER PRIOR TO INTERUPTION. PROVIDE LABOR AND MATERIALS AS REQUIRED TO REDUCE INTERUPTIONS IN ORDER TO MAINTAIN EXISTING

OPERATION. PAY SPECIAL ATTENTION NOT TO DAMAGE THE FINISH OF EXISTING WALLS AND CEILINGS THAT ARE TO REMAIN WHEN REMOVING OR REPLACING LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER. REFER TO

ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. RELOCATE ALL EXISTING ELECTRICAL. FIRE ALARM. AND OTHER LOW-VOLTAGE SYSTEMS REQUIRED TO BE IN OPERATION AT SUBSTANTIAL COMPLETION OF THE CONTRACT, IF REQUIRED, AS A RESULT OF WORK

INCLUDED UNDER THIS CONTRACT, EVEN IF NOT SPECIFICALLY INDICATED IN

THE DRAWINGS OR SPECIFICATIONS. SFAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS, AND ROOF WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS DIRECTED BY THE OWNER. UNLESS NOTED OTHERWISE, ABANDONED CONDUIT ASSEMBLIES SERVING DEMOLISHED DEVICES SHALL BE REMOVED BACK TO NEAREST JUNCTION BOX OUTSIDE OF AREA OF DEMOLITION AND LABLED AS REQUIRED FOR FUTURE

USE. ASSOCIATED WIRING SHALL BE REMOVED BACK TO SERVING PANELBOARD, UPDATE PANELBOARD CIRCUIT DIRECTORY AS REQUIRED TO INDICATE RELATED CIRCUIT(S) AS "SPARE". ANY PANELBOARD CIRCUIT DISCRIPTIONS SHOWN AS "existing" OR IN OTHER LOWER CASE LETTERING IS INTENDED TO REFLECT AN EXISTING CIRCUIT TO REMAIN UNLESS OTHERWISE IDENTIFIED DIFFERENTLY THRU THE COURSE OF

CONSTRUCTION.

REMAIN IN RESPECTIVE PANELBOARD FOR FUTURE USE UNLESS NOTED EXISTING DEVICES ARE SHOWN LIGHT. NEW DEVICES ARE SHOWN BOLD.

ALL CIRCUIT BREAKERS SERVING BRANCH CIRCUITS TO BE REMOVED SHALL

GENERAL POWER NOTES

ALL RECEPTACLES SHALL BE GROUNDING TYPE

OPERATION OR MAINTENANCE OF MECHANICAL EQUIPMENT.

ALL RECEPTACLES INSTALLED IN BATHROOMS, OUTDOORS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE. COORDINATE MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE FEEDERS, DISCONNECTS AND MAINTENANCE RECEPTACLES SO THAT THEY WILL NOT INTERFERE WITH

PROVIDE POWER TO MECHANICAL, PLUMBING, AND ALL OTHER EQUIPMENT AS REQUIRED FOR PROPER OPERATION. COORDINATE AND VERIFY EACH PIECE OF EQUIPMENTS POWER/CONTROL REQUIRMENTS PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT. REFER TO RELATED MECHANICAL, PLUMBING, AND OTHER RELATED DOCUMENTS FOR LOCATIONS OF EQUIPMENT AND REQUIRED CLEARANCES AROUND EQUIPMENT

COORDINATE EXACT MOUNTING HEIGHT OF EACH ABOVE COUNTER RECEPTACLE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. ALL OUTLETS LOCATED IN AREAS REQUIRING GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC-210 SHALL CONSIST OF A GFCI PROTECTED DEVICE, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS. THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED IN THE NEC. ALL RECEPTACLES SUPPLIED THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE MARKED "GFCI PROTECTED."

GENERAL LOW VOLTAGE NOTES

PROVIDE (1) 1/2" CONDUIT, AND 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FOR ALL THERMOSTAT LOCATIONS INDICATED ON THE MECHANICAL DRAWINGS. ROUTE CONDUIT FROM BOX TO ACCESSIBLE CEILING CAVITY. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. PROVIDE PULL STRING IN ALL EMPTY CONDUIT SYSTEMS. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL LIGHTING NOTES

WHERE RECESSED LIGHTING FIXTURES ARE INDICATED IN A FIRE RATED CEILING, PROVIDE A ONE HOUR RATED "TENT" FOR FIXTURE PROVIDE ALL MOUNTING AND SUPPORT HARDWARE FOR LIGHT FIXTURES TO MEET SPECIFIED MOUNTING HEIGHTS, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF FIXTURES CONNECT "UN-SWITCHED" HOT CONDUCTOR FROM CIRCUIT SERVING SPACE

LIGHTING TO EACH EXIT SIGN, EMERGENCY LIGHT, AND ANY FIXTURE DESIGNATED AS NIGHT LIGHT SERVING THE SPACE. COORDINATE ALL DEVICES AND WALL-MOUNTED LIGHT FIXTURE LOCATIONS WITH

THE ARCHITECTURAL WALL FINISHES AND ELEVATIONS. SPECIAL ATTENTION AND COORDINATION OF WALL TYPES AND FINISHES IS REQUIRED PRIOR TO ROUGH-IN. EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN TO AVOID INSTALLATION ON SPECIAL ARCHITCTURAL WALL FINISHES. DEVICES NOT PROPERLY COORDINATED WITH THE SPECIAL WALL FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

GENERAL ELECTRICAL NOTES

DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW ALL GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.

SPECIAL ATTENTION SHALL BE GIVEN TO ALL RACEWAYS WITHIN FINISHED AREAS WITHOUT CEILINGS AND EXPOSED TO STRUCTURE. IN GENERAL, ALL RACEWAYS SHALL BE CONCEALED WITHIN WALLS, ABOVE STRUCTURE FINISH, OR BELOW FLOOR SLABS WHEN SPECIFIED, WHERE EXPOSED CONDITIONS ARE NECESSARY OR UNAVOIDABLE DUE TO OTHER CONDITIONS, THE BID SHALL INCLUDE ANY REASONABLE MEANS TO MINIMIZE THE AMOUNT OF SURFACE MOUNTED EQUIPMENT. PRIOR TO ROUGH-IN. COORDINATE ALL EXPOSED RACEWAY AND BOX CONDITIONS WITH ARCHITECT PRIOR TO CONSTRUCTION OF WALLS, ROOF DECK, OR FLOOR SLABS. ATTACHMENT TO ROOF DECK OR JOIST WEBBINGS IS NOT

ALLOWED, MAINTAIN A MINIMUM SPACING OF 1-1/2" FROM CONDUIT TO ROOF DECK. IN AREAS WHERE EXPOSED RACEWAYS ARE REQUIRED. INSTALL SYSTEMS SQUARE AND TIGHT TO STRUCTURE AND PAINT TO MATCH THE STRUCTURE PER ARCHITECT AND/OR OWNER SPECIFICATIONS. FAILURE TO PROPERLY COORDINATE THE ROUTING OF EXPOSED RACEWAYS MAY RESULT IN RELOCATION OF SUCH RACEWAYS AT NO ADDITIONAL COST TO THE OWNER.

OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING. PROVIDE PENETRATION FIRE STOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479. FIRE STOPPING SHALL NOT BE LESS THAN FIRE RESISTANCE RATING OF CONSTRUCTED

PENETRATIONS. FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS. RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR

UON. REFER TO THE TYPICAL MOUNTING HEIGHT DETAIL. INSTALL EQUIPMENT IN A MANNER TO REMAIN ACCESSIBLE WITH REASONABLE MEANS BY THE OWNER FOLLOWING COMPLETION OF WORK. SPECIAL ATTENTION AND ADDITIONAL COORDINATION IS EXPECTED IN AREAS OF THE BUILDING WHERE THE CEILING AND STRUCTURE HEIGHTS HAVE SIGNIFICANT DIFFERENT ELEVATIONS. EQUIPMENT REQUIRING POSSIBLE FUTURE ACCESS SHALL BE INSTALLED SUCH THAT IT MAY BE SAFELY ACCESSED FROM A STANDARD STEP LADDER OR PERSONNEL LIFT SUITABLE FOR THE LOCATION AND CEILING HEIGHT. WITHOUT REMOVING OR DAMAGING THE CEILING GRID STRUCTURE.

COORDINATE ALL CEILING MOUNTED ELECTRICAL ITEMS WITH OTHER DISCIPLINES, WITH CEILING, AND STRUCTURE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. FIELD VERIFY LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT. INCLUDING POWER POLES, TELEPHONE PEDESTALS, OVERHEAD AND UNDERGROUND FEEDERS, METERS, PANELS, DEVICES, ETC. PROVIDE FOR COORDINATION WITH EXISTING EQUIPMENT.

ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANELBOARD SCHEDULES AT COMPLETION OF PROJECT WITH OWNER PROVIDED ROOM NAMES/NUMBERS. CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE |FARTHEST LOAD, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST LOAD DOES

ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER

NOT EXCCED 5%. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, STATE LAWS, ALL AUTHORITIES HAVING JUISDICTION, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS

THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.

CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING

SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRIC ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY LISTED.

SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED.

THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS. NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TEST AND ADJUSTMENTS HAVE BEEN MADE. THREE COPIES OF ALL TEST RESULTS SHALL BE

DELIVERED TO THE OWNER ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS AND PLANS. JUNCTION BOXES LOCATED ABOVE GRID CEILINGS SHALL BE LOCATED NO GREATER THAN 4-FEET ABOVE THE CEILING IN A LOCATION ACCESSIBLE VIA A LADDER FROM THE ROOM BELOW.

ALL WIRING DEVICE COVERPLATES SHALL INDICATE PANELBOARD AND CIRCUIT SERVING THE DEVICE. UTILIZE CLEAR VINYL (BLACK LETTERING) | IDENTIFICATION LABLES MANUFACTURED BY 3M COMPANY (OR APPROVED EQUIVALENT). THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED.

APPLICATION - TYPE OF CONDUIT

BURIED IN CONCRETE OR OUTDOORS - PVC WITH RIGID GALVANIZED

SERVICE ENTRANCE - GALVANIZED RIGID STEEL OR SERVICE UTILITY SPECIFICATIONS.

DESIGNATED SPARE CIRCUIT BREAKERS SHALL BE PLACED IN THE OFF POSITION PROVIDE SPD AS REQUIRED FOR OWNER PROVIDED EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ACCESS CONTROL SYSTEM, COMMUNICATION SYSTEM, DATA SYSTEM, SECURITY SYSTEM.

ABBREVIATIONS

AC ABOVE COUNTER ISOLATED GROUND AFF ABOVE FINISHED FLOOR MCC MOTOR CONTROL CENTER CB CIRCUIT BREAKER E EXISTING

NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC. NOT IN CONTRACT GFI GROUND FAULT CIRCUIT INTERRUPTER NIGHT LIGHT

UNDERGROUND UNLESS OTHERWISE NOTED WEATHERPROOF WEATHER RESISTANT

WIRING

WIRING CONCEALED IN CEILING OR WALLS UON. ALL WIRE IS NUMBER #12 AWG MINIMUM.

EXPOSED RACEWAY.

EC ELECTRICAL CONTRACTOR

EP EXPLOSION PROOF

GR GROUND

HP HORSE POWER

- - - - → UNDERGROUND RACEWAY; TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.

SWITCHES

SWITCH MOUNTED AT +48"; SINGLE POLE UON. LOWER CASE LETTER, WHEN PRESENT, INDICATES FIXTURES CONTROLLED. ABBREVIATIONS FOR SWITCH

DOUBLE POLE SWITCH 3-WAY SWITCH 4-WAY SWITCH

DIMMER SWITCH (SHALL BE COMPATABLE WITH FIXTURE BEING DIMMED) FAN SWITCH: DUAL OPERATION WITH DIMMER

KEYED SWITCH M MOTOR RATED SWITCH

OS DUAL TECHNOLOGY OCCUPANCY SENSOR V VOLUME CONTROL SWITCH

CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH SPARE DRY CONTACTS. HUBBELL OMNIDIARP SERIES

RECEPTACLES

DUPLEX RECEPTACLE (NEMA 5-20R)

DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 8" ABOVE COUNTERTOP.

 Φ_{II} (ALL RECEPTACLE TYPES) WITH USB CHARGING PORTS

GFI DUPLEX RECEPTACLE (NEMA 5-20R), SELF-TEST TYPE

GFI DUPLEX RECEPTACLE (NEMA 5-20R), SELF-TEST TYPE; MOUNTED 8" ABOVE COUNTERTOP.

QUADRUPLEX RECEPTACLE (TWO NEMA 5-20R)

SPECIAL RECEPTACLE: VERIFY NEMA TYPE WITH MANUFACTURER

而句 FLOOR BOX WITH DATA: LEGRAND WIREMOLD SERIES RFB4E-OG OR RFB6E-OG WITH EVOLUTION COVER. ROUTE (2)1" FOR DATA FROM FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES: LEGRAND 6AT SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UON.

□ TV TELEVISION: PROVIDE HUBBELL NSAV62M JUNCTION BOX (OR EQUAL) WITH 1/2" CONDUIT FOR POWER AND 1" CONDUIT (WITH PULL STRINGS) FOR A/V ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE CONNECTIONS FOR POWER, DATA, COAX, AND HDMI. MOUNT AT +60" AFF UNO. CONFRIM HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.

SINGLE RECEPTACLE (NEMA 5-20R)

SPLIT WIRED DUPLEX RECEPTACLE (NEMA 5-20R)

DIRECT EQUIPMENT CONNECTION: VERIFY CONNECTION DETAILS WITH

FLOOR BOX: HUBBEL 3SFBSS WITH 3SFBC COVER, EC SHALL ROUTE A 1"C FOR FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES:

HUBBELL PT2X2 SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UON. (D) CEILING MOUNTED RECEPTACLE(NEMA 5-20R)

PANELS AND MISC.

LIGHT OR POWER PANEL

(J) 4x4 JUNCTION BOX.

EQUIPMENT DISCONNECT: INTERIOR DISCONNECTS SHALL BE NEMA 1 TYPE.

EXTERIOR DISCONNECTS SHALL BE NEMA 3R TYPE. SIZE AS INDICATED IN THE PLANS AND PER NAMEPLATE RATING. PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT 8" ABOVE COUNTER (UON) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK

COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. WIRING BY PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT +18" (UON) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE

PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX IN CEILING.

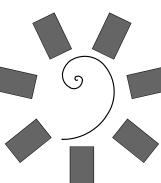
PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. WIRING BY OTHERS.

PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. WIRING BY OTHERS.

TELEVISION: PROVIDE 4X4 JUNCTION BOX WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. CONFRIM HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.

S CEILING MOUNTED SPEAKER

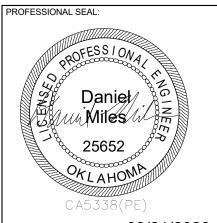
CR CARD READER: REFER TO SYSTEM PLANS AND SPECIFICATIONS. AT EACH DOOR WITH A CARD READER PROVIDE ALL ELECTRICAL CONNECTIONS FOR DOOR HARDWARE SYSTEMS AS REQUIRED TO MAKE A COMPLETE OPERATIONAL SYSTEM. WHERE REQUIRED, BACK TO BACK 2"X4" BOXES ARE ALLOWED FOR CARD READER AND PUSH TO EXIT SWITCH. PROVIDE POWER TO THE LOCK SYSTEM IN THE I.T. ROOM WHERE NEEDED BY CONTRACTOR INSTALLING SYSTEM.

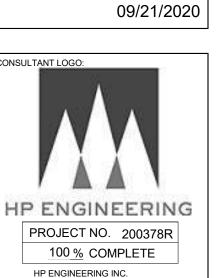


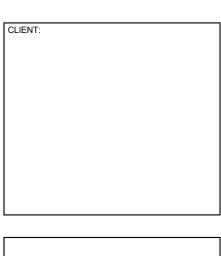
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ROGERS, AR 72758

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KEY PLAN:
PROJECT PHASE:

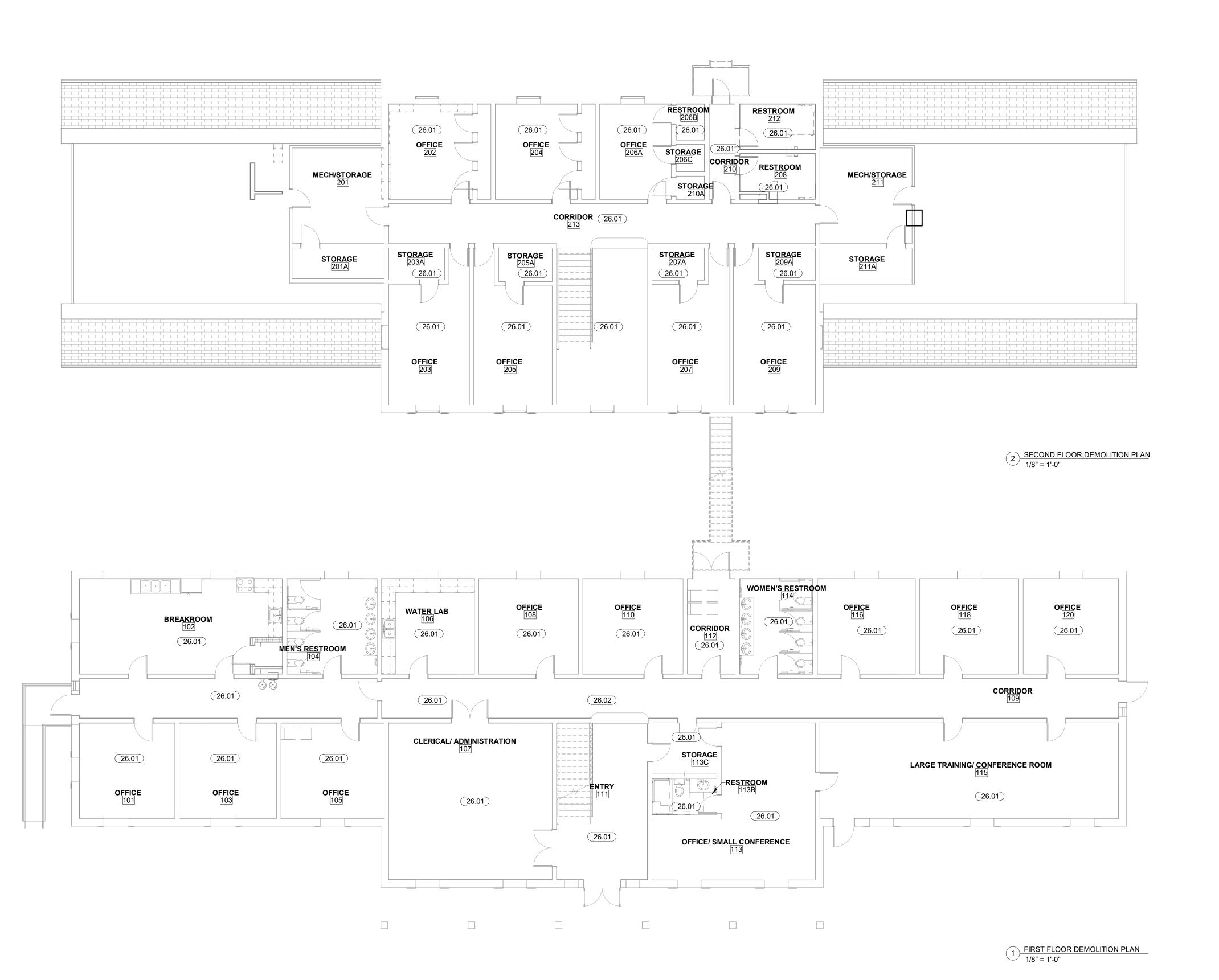
	REVISIONS
DATE	DESCRIPTION

ELECTRICAL NOTES AND LEGEND

KEYNOTES

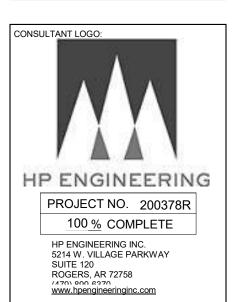
26.01 ELECTRICAL CONTRACTOR TO DEMOLISH EXISTING LIGHT FIXTURES IN THIS ROOM. EXISTING EXIT LIGHTS AND CONTROLS ARE TO REMAIN. REMOVE ALL DEVICES PER THE EXISTING ELECTRICAL AND DEMOLITION NOTES.

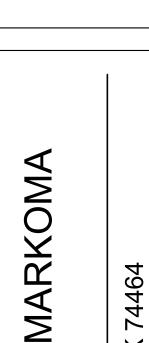
26.02 ELECTRICAL CONTRACTOR TO DEMOLISH ELECTRICAL CONNECTIONS TO ALL EXISTING MECHANICAL UNITS BEING DEMOLISHED. REMOVE ALL CONDUIT AND WIRING BACK TO THE EXISTING PANEL BOARD.











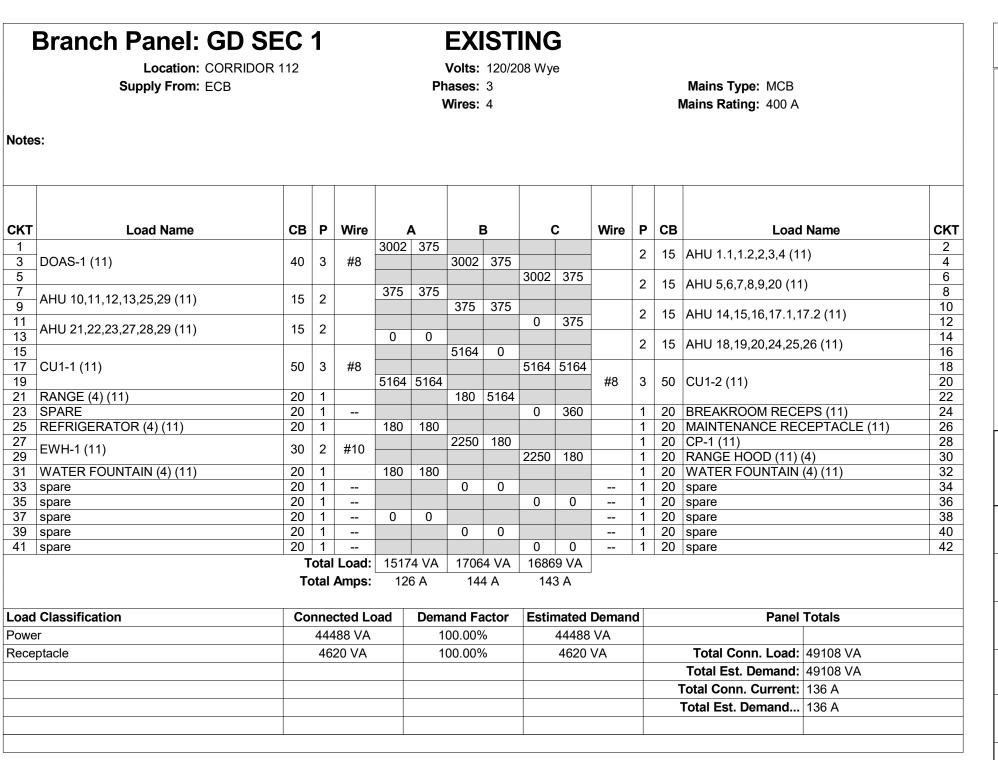
ENVIORONMENTAL HEALTH - MABUILDING

KEY PLAN:			
			_
PROJECT PHASE	 E:		_

		REVISIONS
#	DATE	DESCRIPTION

DATE:	JOB NUMBER:
09/21/2020	18-01.14
SHEET NUMBER:	
E	1.1

ELECTRICAL DEMOLITION PLANS



ELECTRICAL FEEDER KEYNOTES

PANELBOARD NOTES (#)

TERMINATE GROUND ON ISOLATED GROUND BUS.
 INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
 INSTALL LOCKING DEVICE FURNISHED WITH

3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION

(Fro. A)

(5mA).

5. GFI BREAKER FOR EQUIPMENT PROTECTION (30mA).

6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE

CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE
HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE
EQUIPMENT GROUND PROPORTIONALLY PER NEC.
REFERENCE GROUND WIRE SIZING CHART.

REFERENCE GROUND WIRE SIZING CHART.

7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.

8. REFERENCE ONE-LINE DIAGRAM FOR WIRE SIZES.

9. FACTORY WIRED TO LOAD.

10.THRU CONTROLLER. REFER TO LIGHTING
CONTROLLER DETAIL.

11. ADD NEW CIRCUIT BREAKER TO EXISTING PANEL.

11. ADD NEW CIRCUIT BREAKER TO EXISTING PANEL.
NEW CIRCUIT BREAKER SHALL MATCH AIC RATING,
MANUFACTURER, AND TYPE OF EXISTING CIRCUIT
BREAKERS.
12. MATCH AIC RATING OF SERVICING DEVICE.

EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

BRKR AMPS			WIR	RE SIZE		
15-20	PHASE GROUND	12 12	10 10	8 8	6 6	4 4
25-30	PHASE GROUND	10 10	8 8	6 6	4 4	3 3
35-50	PHASE GROUND	8 10	6 8	4 4	3 4	2 4
60	PHASE GROUND	6 10	4 6	3 6	2 4	1 4
70	PHASE GROUND	6 8	4 4	3 4	2 3	1 2
80-90	PHASE GROUND	4 8	3 6	2 4	1 4	1/0
100	PHASE GROUND	3 8	2 6	1 4	1/0 4	2/0 3
PER NE	EC 250.122(E	3)	1		1	

CIRCUIT DESCRIPTIONS SHOWN AS "existing" OR IN LOWER CASE LETTERS INDICATE AN EXISTING CIRCUIT BREAKER TO REMAIN AND IS BASED ON ORIGINAL BUILDING PLANS, PANEL SCHEDULES AND BREAKER ARRANGEMENTS AT THE TIME OF THE SITE

VISIT.

MECHANICAL POWER PLAN NOTES

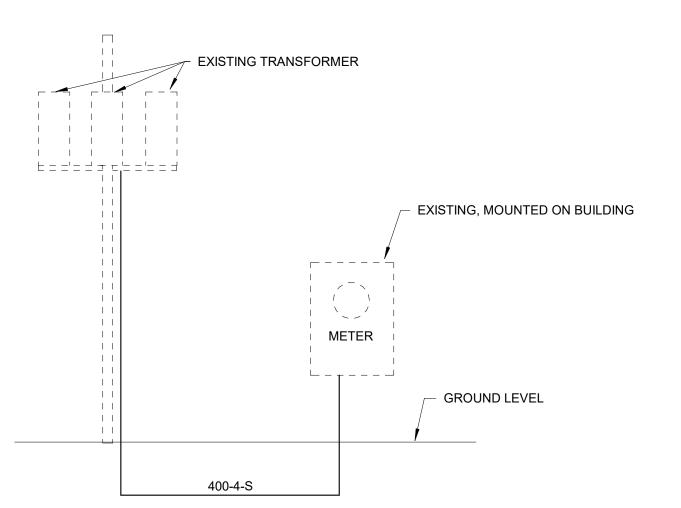
EXHAUST FANS SHALL BE CIRCUITED WITH LIGHTS UNLESS SHOWN OTHERWISE. REFER TO MECHANICAL PLANS FOR CONTROLS OF

KEYNOTES

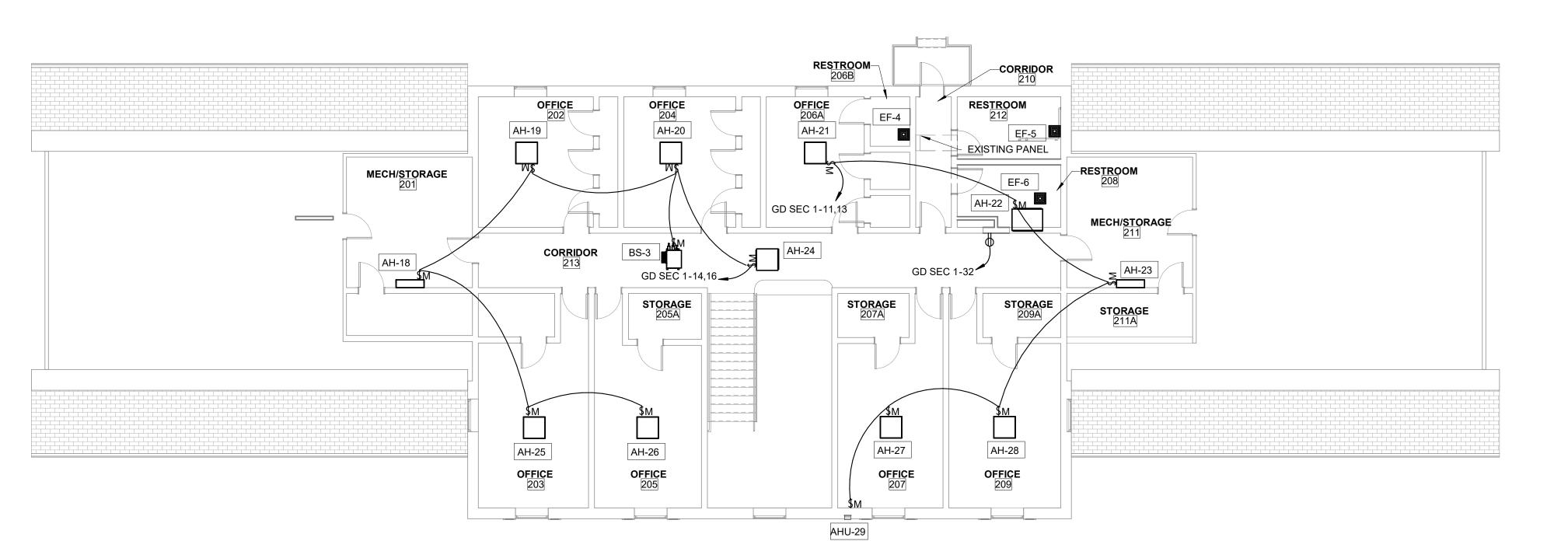
EXHAUST FANS.

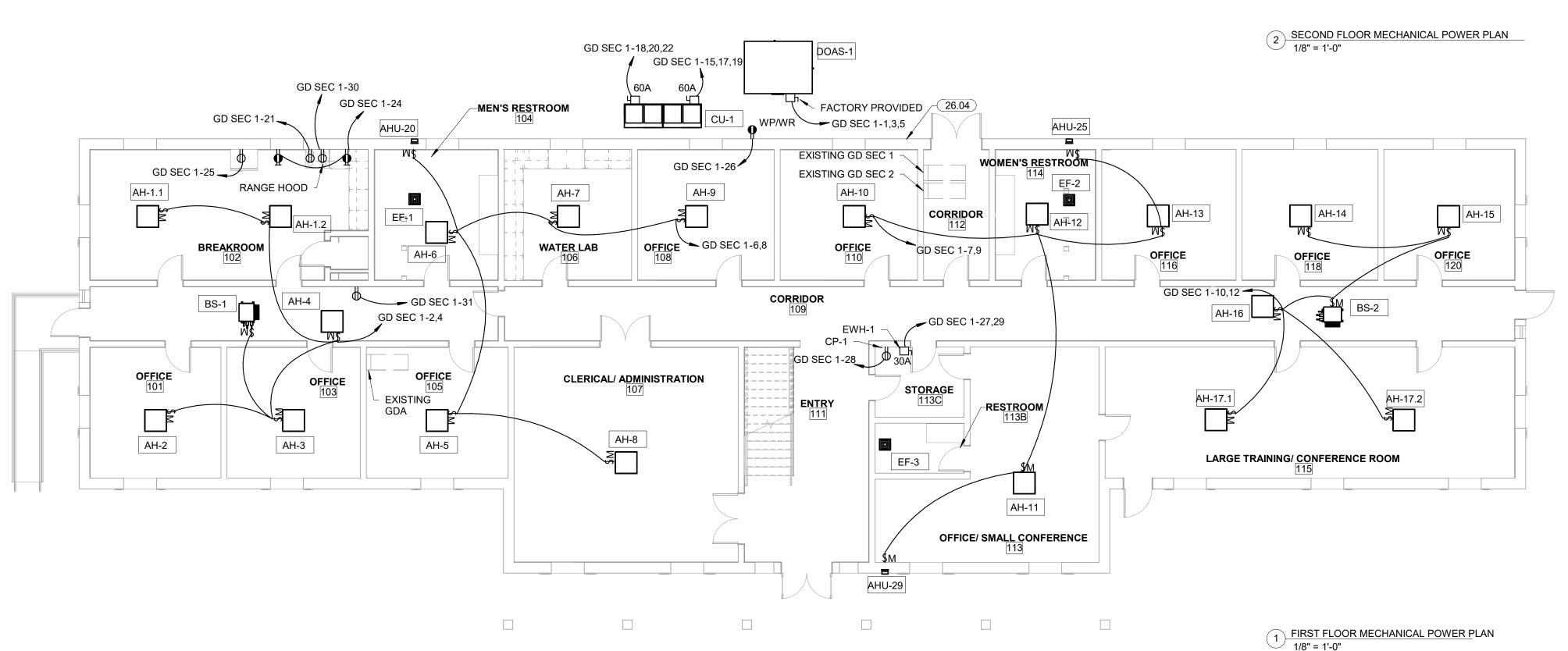
26.04 ELECTRICAL CONTACTOR TO REROUTE EXISTING SERVICE UNDERGROUND. CURRENT INSTALLATION VIOLATES NEC 230.9(A). COORDINATE REROUTING OF SERVICE WITH ELECTRICAL UTILITY AND OWNER. REFER TO RISER DIAGRAM.

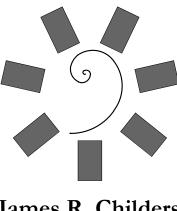
EXISTING DEVICES NOT SHOWN AND NOT NOTED TO BE DEMOLISHED IN DEMOLITION PLANS SHALL REMAIN.



3 RISER DIAGRAM NTS

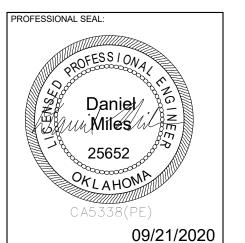




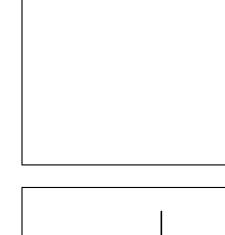


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IMENTAL HEALTH - MARKOM BUILDING

KEY PLAN:

PROJECT PHASE:

DATE DESCRIPTION

DATE: JOB NUMBER: 18-01.14

E1.2

ELECTRICAL POWER PLANS

LUMINAIRE SCHEDULE

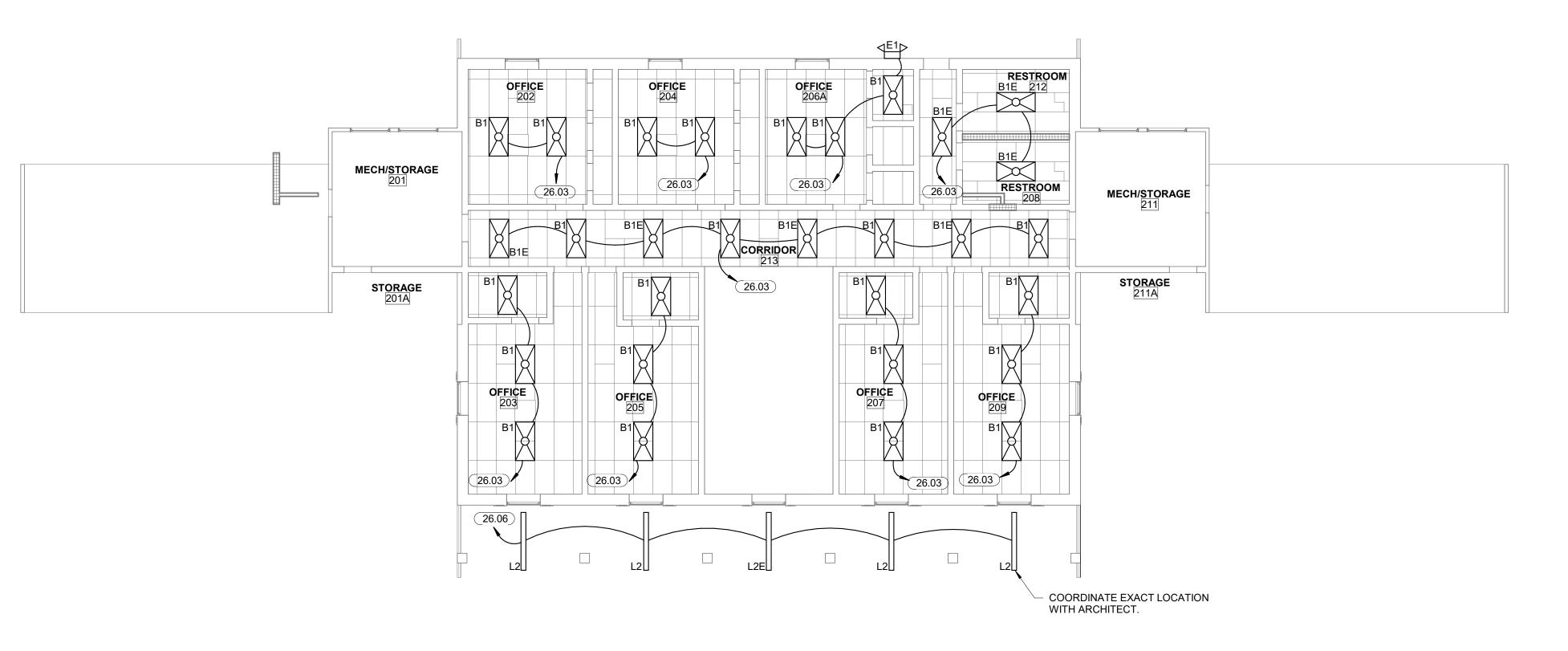
EC SHALL PROVIDE A SUBMITTAL PACKAGE INCLUDING CUTSHEETS FOR EACH FIXTURE.
 EC SHALL PROVIDE ALL ACCESSORIES FOR A COMPLETE ASSEMBLY INCLUDING MOUNTING HARDWARE.
 THE MOUNTING TYPE OF EACH FIXTURE SHALL BE COMPATIBLE WITH INSTALLATION SURFACE OF EACH FIXTURE.
 ALL FINISHES SHALL BE COORDINATED WITH ARCHITECT AND DOCUMENTED ON SUBMITTALS.

<u></u>		BE COCKBING	125 77117 (161112617 (172 2666)	WEITTED OIT OO!	5WII 17 (EG.			
PE.	LAMP	DIMMING	COLOR TEMPERATURE	LUMENS	VOLTS	WATTS	DESCRIPTION	MANUFACTURER
31	LED	0-10V	3500K	4000	120/277	36 W	2X4, TROFFER	METALUX - ST - 24CZ2
1E	LED	0-10V	3500K	4000	120/277	36 W	2X4, TROFFER, INTEGRATED BATTERY	METALUX - ST - 24CZ2
Ξ1	(2) LED	NA	NA	NA	120/277	10 W	EMERGENCY LIGHT, BUGEYE, SELF DIAGNOSTIC, REMOTE HEAD, 50 FEET, DOUBLE HEAD	SURE LITES - SRPD
_1	LED	0-10V	3500K	500 LM/Ft	120/277	52 W	4' LINEAR PENDANT, OPEN END CA, COORDINATE FINISH WITH ARCHITECT	LUMENWERX - CAVSPD
1E	LED	0-10V	3500K	500 LM/Ft	120/277	52 W	4' LINEAR PENDANT, OPEN END CA, COORDINATE FINISH WITH ARCHITECT, INTEGRATED BATTERY	LUMENWERX - CAVSPD
_2	LED	0-10V	3500K	1000 LM/Ft	120/277	45 W	4' LINEAR, SURFACE MOUNTED, COORDINATE FINISH WITH ARCHITECT	LUMENWERX - VIAWET
2E	LED	0-10V	3500K	1000 LM/Ft	120/277	45 W	4' LINEAR, SURFACE MOUNTED, COORDINATE FINISH WITH ARCHITECT, INTEGRATED BATTERY	LUMENWERX -VIAWET

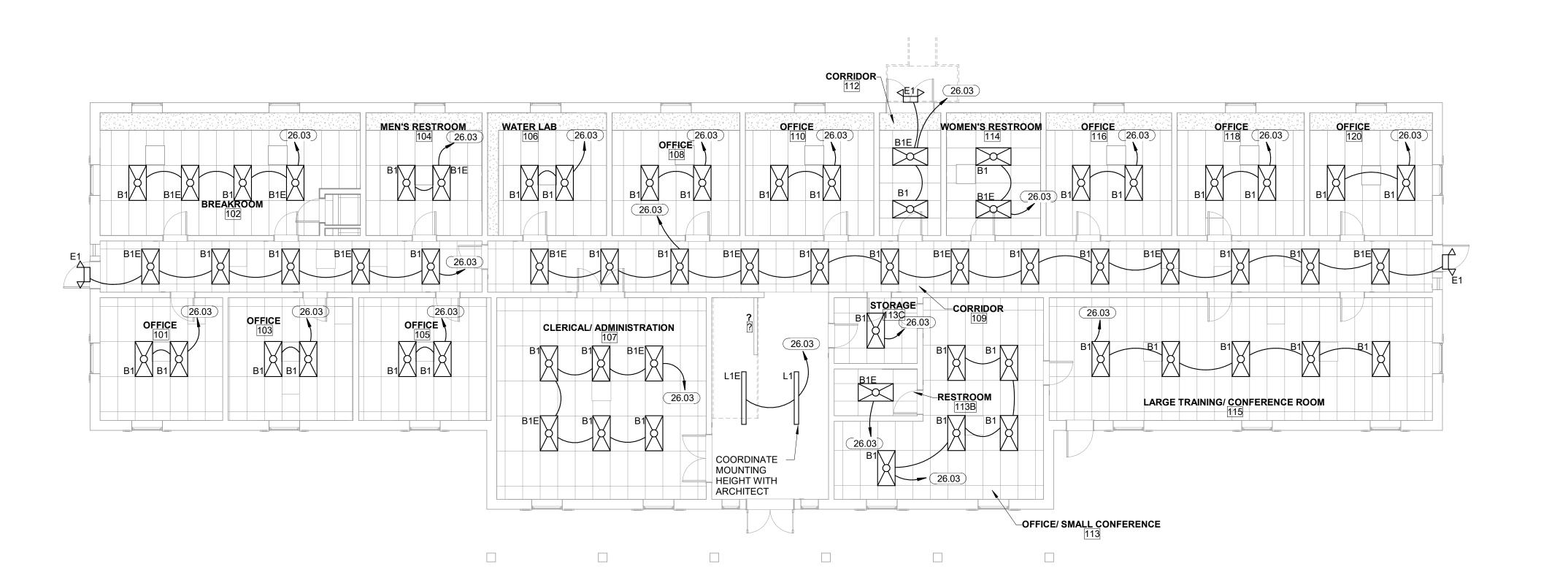
KEYNOTES

RECONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS MADE AVAILABLE THROUGH DEMOLITION IN SPACE.

 CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT. VERIFY EXISTING CONTROLS, IF NONE EXIST PROVIDE NEW TIME CLOCK AND CONTACTOR FOR EXTERIOR LIGHTING.



2 SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"



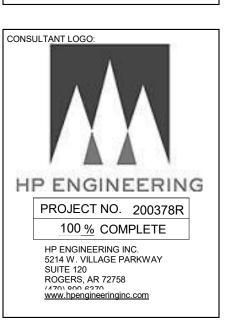
1 FIRST FLOOR LIGHTING PLAN 1/8" = 1'-0"

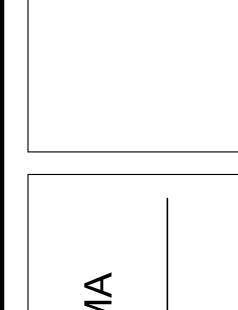
James R. Childers



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RONMENTAL HEALTH - MARKC BUILDING

KEY PLAN:

PROJECT PHASE:

REVISIONS
DATE DESCRIPTION

09/21/2020 18-01.14

E2.1

LIGHTING PLANS