

ACADEMY BANK LEE'S SUMMIT TENANT IMPROVEMENTS

2070 NW LOWENSTEIN DR
SUITE A
LEE'S SUMMIT, MO 64081

<u>REV</u>	<u>DESCRIPTION</u>	<u>DATE</u>	<u>TENANT:</u> DICKINSON FINANCIAL CORPORATION 1201 WALNUT STREET KANSAS CITY, MISSOURI 64108 816.472.5244	<u>ARCHITECT:</u> GENERATOR STUDIO 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM	<u>CIVIL ENGINEER:</u> UHL ENGINEERING INC 7211 W 98TH TERRACE SSTE 110 OVERLAND PARK, KS 66212 913.385.2670 UHLENGINEERS.COM	<u>MEP ENGINEER</u> ADVANCED CONSULTING ENGINEERS 132 KELLEY DR ROGERS, AR 72756 479.631.1712 EXT 101 ADVENGINEERS.COM	<u>CONTRACTOR</u> SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM
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FOR CONSTRUCTION

07.03.2024



OWNER
DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MISSOURI 64105
816.472.5244

ARCHITECT
GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CIVIL ENGINEER
UHL ENGINEERING INC
7211 W 98TH TERRACE STE 110
OVERLAND PARK, KS 66212
913.385.2670
UHLENGINEERING.COM

MEP ENGINEER
ADVANCED CONSULTING ENGINEERS
132 KELLEY DRIVE
ROGERS, AR 72766
479.631.1712 EXT 101
ADVENGINEERS.COM

CONTRACTOR
SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT: THOMAS JASON PROEBSTLE
LICENSE NO. A-2002017812



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PROJECT NO.	16014
DRAWN BY:	CG
CHKD BY:	GB
SHEET TITLE	

INTERIOR ACCESSIBILITY G003

ACCESSIBLE ROUTE W/ IN BUILDING
SPACES W/ IN BUILDINGS: PROVIDE AN ACCESSIBLE ROUTE TO EACH SPACE OR PORTION W/ IN A BUILDING. TO ACCESSIBLE BUILDING ENTRANCES - NOT PASSING THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS CLOSETS OR SIMILAR SPACES (IF ONLY ONE ACCESSIBLE-ROUTE IS PROVIDED).

CONSTRUCT EMPLOYEE WORK AREA, SPACES & ELEMENTS SO THAT INDIVIDUALS W/ DISABILITIES CAN APPROACH, ENTER, & EXIT THE WORK AREA. (EXCEPT AT WORK-AREAS LESS THAN 150 SF & ELEVATED SEVEN (7) INCHES OR MORE ABOVE GROUND OR FINISH FLOOR - WHEN THE RAISED ELEVATION IS ESSENTIAL TO THE FUNCTION OF THE WORK - AREA - PER IBC).

PROVIDE ACCESSIBLE ROUTES AT ALL COMMON-USE CIRCULATION PATHS W/ IN EMPLOYEE WORK AREAS UNLESS WORK AREA IS LESS THAN 300 SF & DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS

ACCESSIBILITY NOT REQUIRED (W/ IN A BUILDING): TO NON-OCCUPIABLE SPACES OR TO SERVICE-ONLY AREAS INCLUDING CATWALKS, CRAWL-SPACES, FREIGHT (NON-PASSENGER) ELEVATORS, ELEVATOR PITS, OR TO MECH PENTHOUSES.

ACCESSIBLE-ROUTE W/ IN BUILDING
ACCESSIBLE-ROUTES MAY CONSIST OF ONE OR MORE OF THESE COMPONENTS: WALKING SURFACES, RAMPS, DOORS & DOORWAYS, ELEVATORS & PLATFORM LIFTS.

MIN CORRIDOR WIDTH: 3'-0"

MIN WIDTH OF ACCESS AISLES: 3'-0"

CARPETED WALKING SURFACES: BROADLOOM OR CARPET-TILE W/ FIRM CUSHION/PAD (OR W/IO CUSHION & PAD) W/ LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT/UNCUT PILE TEXTURE W/ 1/2 INCH MAX PILE-HEIGHT. SECURELY ATTACH TO SUBSTRATE & PROVIDE BEVELED EDGE-TRIM ALONG ENTIRE LENGTH OF EXPOSED EDGE PER ABOVE.

AREA-OF-RESCUE ASSISTANCE
PROVIDE AN "AREA-OF-RESCUE-ASSISTANCE" AT NON-ACCESSIBLE EXIT-DISCHARGE DOORS - EXCEPT IN BUILDINGS W/ A SUPERVISED AUTOMATIC FIRE-SUPPRESSION SYSTEM.

MIN SIZE: PROVIDE MIN OF TWO (2) EA 2'-6" X 4'-0" AREAS OR ONE (1) EACH PER 200 OCC PER STORY SERVED NOT ENCRoACHING ON ANY REQUIRED EXIT WIDTH

TOILET ROOMS OR COMPARTMENTS
UNI-SEX TOILET ROOM: PROVIDE AN ACCESSIBLE FACILITY W/ A SINGLE WATER-CLOSET & LAVATORY IN ANY MERCANTILE OR ASSEMBLY OCCUPANCIES WHERE A TOTAL OF SIX (6) OR MORE MALE & FEMALE WATER-CLOSETS ARE REQUIRED (PER IBC).

PROVIDE UNI-SEX & SINGLE-USE TOILET ROOMS W/ DOOR LOCKING FROM INSIDE

WATER-CLOSET COMPARTMENTS: PROVIDE A MIN OF ONE (1) WHEELCHAIR-ACCESSIBLE COMPARTMENT & WHEN OVER SIX (6) WATER-CLOSETS + URINALS ARE PROVIDED IN A TOILET ROOM, PROVIDE ONE (1) TO BE AMBULATORY-ACCESSIBLE IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE UNIT.

SINKS: PROVIDE NO LESS THAN ONE (1) ACCESSIBLE SINK (OR 5% OF TOTAL) WHERE PROVIDED (MOP OR SERVICE-SINKS ARE NOT REQUIRED TO BE ACCESSIBLE)

DRINKING FOUNTAINS
IF ONLY ONE DRINKING FOUNTAIN IS PROVIDED IN A SPACE OR BUILDING, PROVIDE A "DUAL, HI-LOW" TYPE UNIT ACCESSIBLE TO BOTH WHEELCHAIR USERS & TO PERSONS W/ DIFFICULTY BENDING OR STOPPING (STANDARD HEIGHT UNIT) OR OTHER MEANS TO ACHIEVE EQUIVALENT ACCESSIBILITY FOR BOTH (PROVIDING AN ACCESSIBLE WATER COOLER, FOR EXAMPLE).

PROVIDE DRINKING FOUNTAINS IN ALCOVE OUT OF COMMON PATH OF TRAVEL SPACING BETWEEN DRINKING FOUNTAINS: 2'-3" (27") MIN

ACCESSIBLE ELEVATORS
MIN CAR SIZE: DEPTH: 4'-3" TO FRONT WALL - 4'-6" TO DOOR
WIDTH: 50 OR MORE OCC: 6'-8" MIN (STRETCHER TYPE)
UNDER 50 OCC: 4'-6" MIN

MIN DOOR WIDTH: 50 OR MORE OCC: 3'-6" MIN
UNDER 50 OCC: 2'-10" MIN

HANDRAIL AT REAR: LOCATE BIT 2'-6" TO 2'-10" AFF

ELEVATOR CONTROLS:
LOCATE BETWEEN 2'-11" MIN & 4'-6" AFF MAX
PROVIDE EMERGENCY PHONE @ 4'-0" AFF MAX W/ 2'-5" MIN CORD LENGTH
HALL-CALL BUTTONS: CENTER AT 3'-6" AFF
HALL LANTERNS: 6'-0" (72 INCH) AFF - VISUAL & AUDIBLE
FLOOR INDICATOR SIGNS: 2" HIGH CONTRASTING LETTER SIGN W/ BRAILLE ON SIDE OF DOOR JAMB AT 60" AFF

ACCESSIBLE SEATING
WHEN PROVIDED AT FIXED OR BUILT-IN TABLES, COUNTERS OR WORK SURFACES, PROVIDE 5% MIN BUT NOT LESS THAN ONE (1) ACCESSIBLE SEATING, DISTRIBUTED THROUGHOUT.

POINT-OF-SALE (POS) OR SERVICE COUNTERS: PROVIDE NOT LESS THAN ONE (1) UNIT TO BE ACCESSIBLE DISPERSED THROUGHOUT IF COUNTERS ARE DISPERSED.

SIGNAGE
REQUIRED ACCESSIBLE SIGNS (MIN) EXCEPT AT BUILDING DIRECTORIES, MENU BOARDS, OR TEMPORARY SIGNS PROVIDE ACCESSIBLE SIGNS AS FOLLOWS:

ACCESSIBLE ENTRANCES: PROVIDE A 4 X 4" ACCESSIBILITY DECAL AT ALL ACCESSIBLE PUBLIC ENTRANCE DOORS CENTERED AT 60" AFF.

NON-ACCESSIBLE PUBLIC ENTRANCES: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE ENTRANCE.

NON-ACCESSIBLE TOILET ROOMS: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE UNITS.

ROOM (OR SPACE) SIGNS (INCLUDING TOILET ROOMS): PROVIDE RAISED PICTOGRAMS, TACTILE CHARACTERS & BRAILLE TEXT.

ACCEPTABLE CHARACTERS: UPPER-CASE, LOWER-CASE, OR A COMBINATION OF BOTH IN A SANS-SERIF CONVENTIONAL STYLE - NO ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE OR OTHER UNUSUAL FORMS

FINISH & CONTRAST: NON-GLARE W/ EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND

ILLUMINATION LEVEL AT ACCESSIBLE SIGNS: MIN 10 FOOTCANDLES

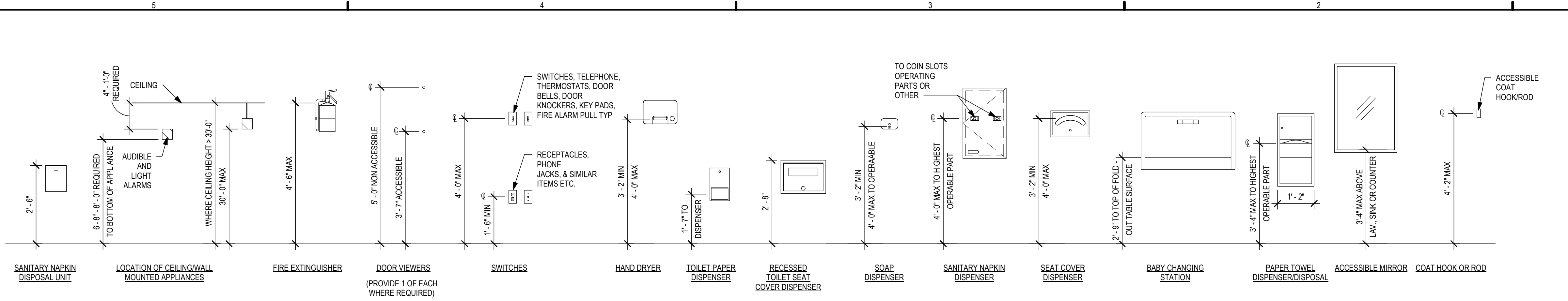
PROVIDE CLEAR FLOOR AREA OF 18 X 18 INCHES CENTERED ON TACTILE CHARACTER SIGNS BEYOND ARC OF DOOR SWING FROM CLOSED TO 45 DEGREE OPEN POSITION

BRAILLE: CONTRACTED (GRADE 2) W/ INDICATION OF AN UPPERCASE LETTER ONLY BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, & NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, OR ACRONYM.

ALARMS
IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, PROVIDE BOTH AUDIBLE & VISUAL ALARMS IN ANY COMMON-USE AREAS (INCLUDING BUT NOT LIMITED TO RESTROOMS, MEETING ROOMS, HALLWAYS, & LOBBIES). PERMANENTLY CONNECT ALARM SYSTEMS TO THE BUILDING ELECTRICAL POWER & LIGHTING SYSTEM AS APPROPRIATE.

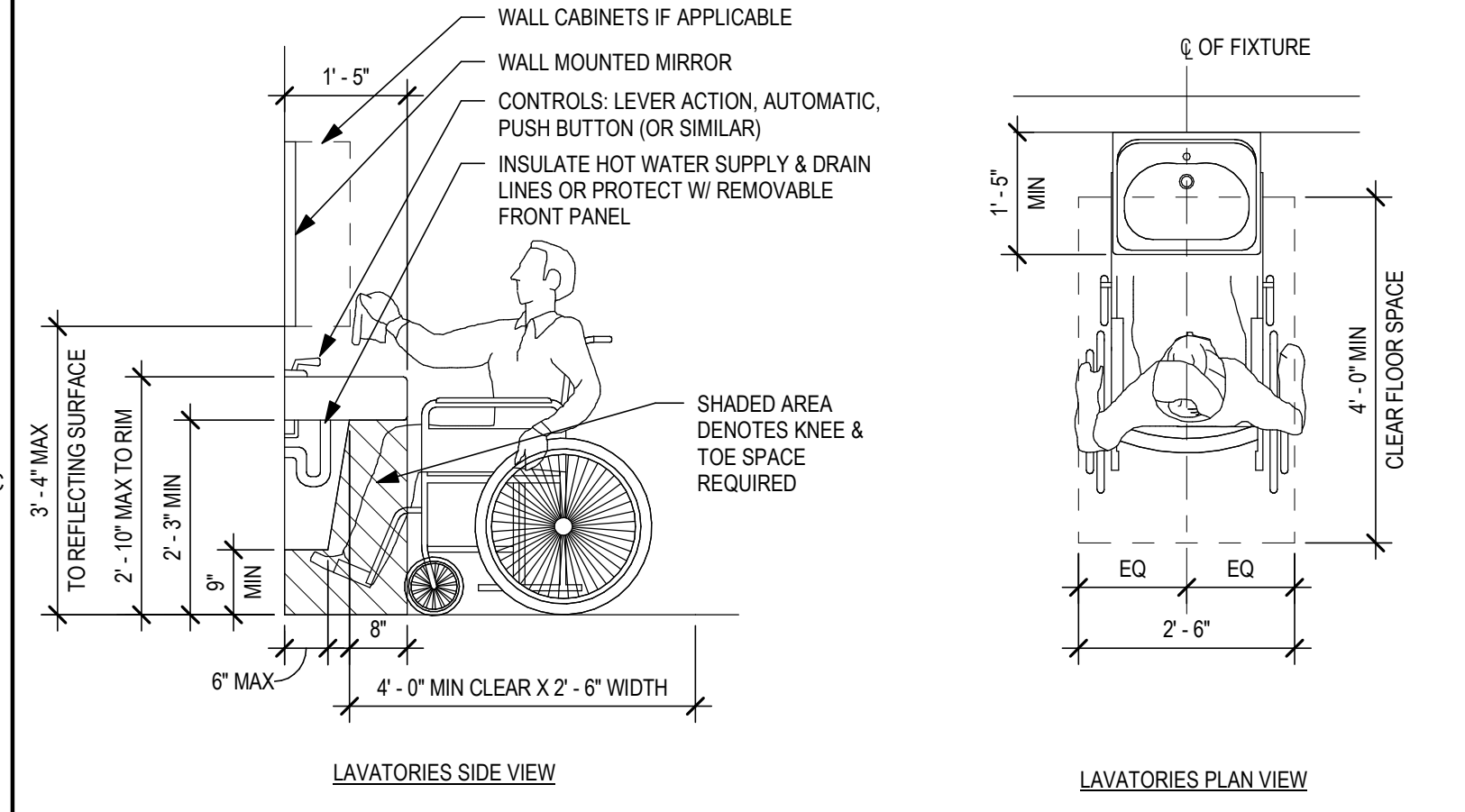
IF AUDIBLE ALARMS ARE PROVIDED, THEY MUST PRODUCE SOUND EXCEEDING THE PREVAILING EQUIVALENT LEVEL OF A SPACE BY AT LEAST 15 dba OR EXCEED ANY MAX SOUND LEVEL W/ A DURATION OF 60 SECONDS BY 5 dba, WHICHEVER IS LOUDER (NOT EXCEEDING 120dbA).

IF VISUAL ALARMS ARE PROVIDED, PROVIDE UNFILTERED OR CLEAR-FILTERED WHITE XENON-STROBE TYPE LAMPS OR EQUIVALENT, W/ 0.2 SECOND MAX PULSE DURATION & MAX DUTY CYCLE OF 40 PERCENT, PROVIDING A MIN BRIGHTNESS INTENSITY OF 75 CANDELA W/ A FLASH RATE BETWEEN 1 & 3 Hz. LOCATE UNITS NO MORE THAN 6'-10" (80") AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER). LOCATE 50 FEET MAX FROM ANY POINT W/ IN A SPACE OR COMMON CORRIDOR, OR IN LARGE SPACES OVER 100 FEET ACROSS (SUCH AS AUDITORIUMS) W/IO OBSTRUCTIONS 6 FT AFF, LOCATE AROUND ROOM PERIMETER AT MAX 100 FT CENTERS.



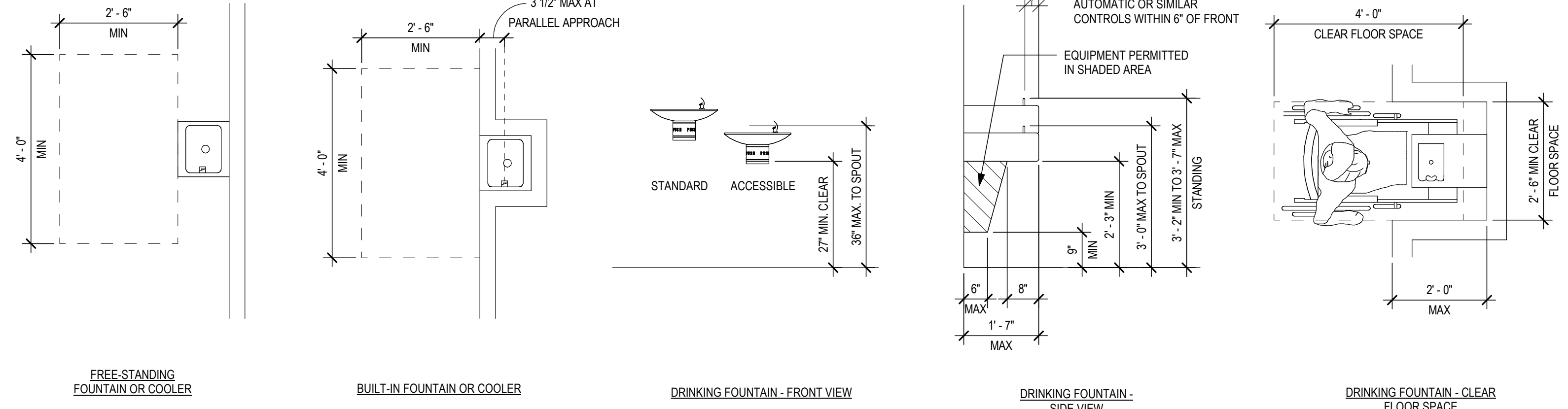
ACCESSORY MOUNTING HEIGHTS | D1

SCALE: 1/2" = 1'-0"



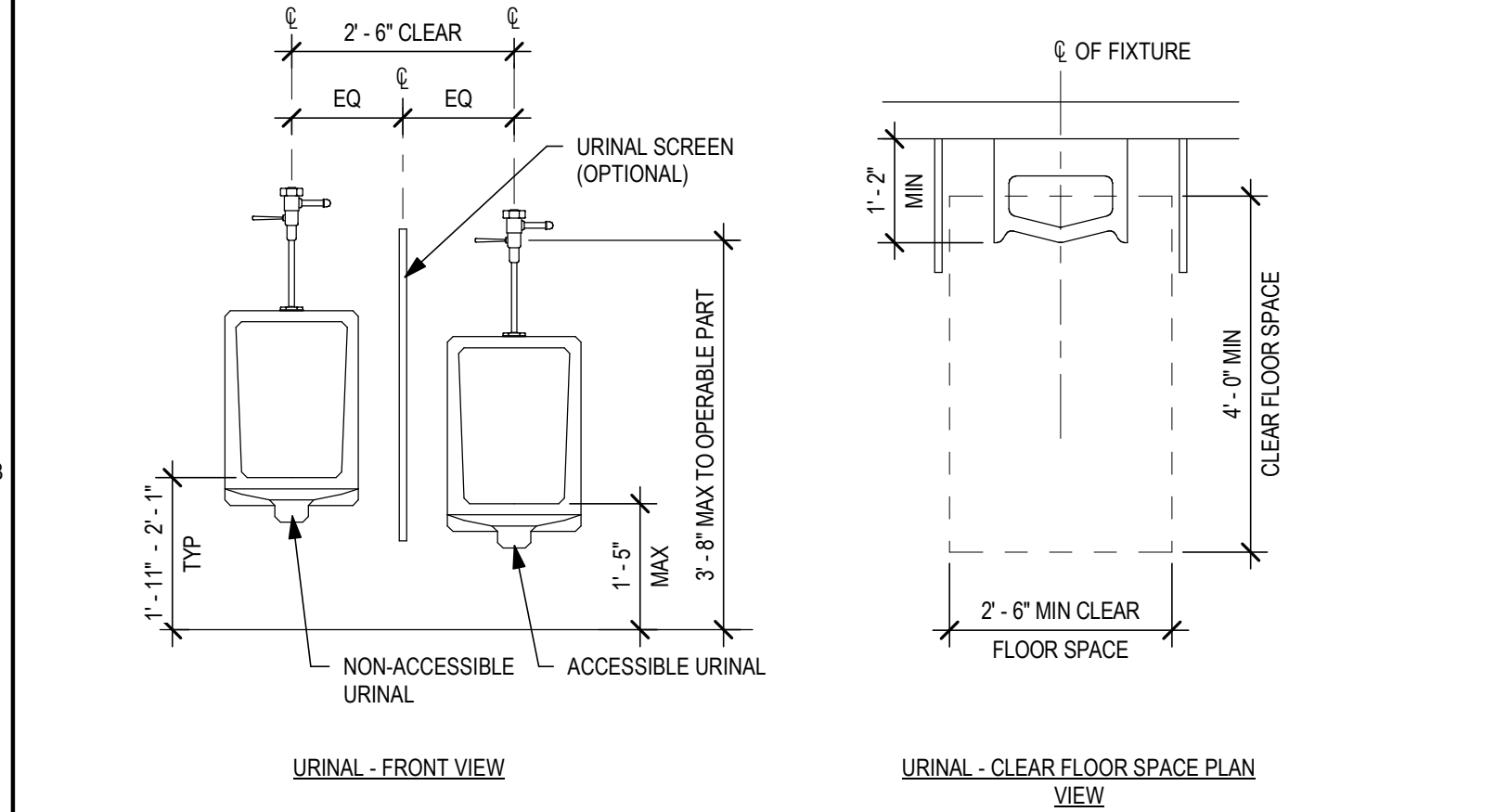
ACCESSIBLE LAVATORIES | C5

SCALE: 1/2" = 1'-0"



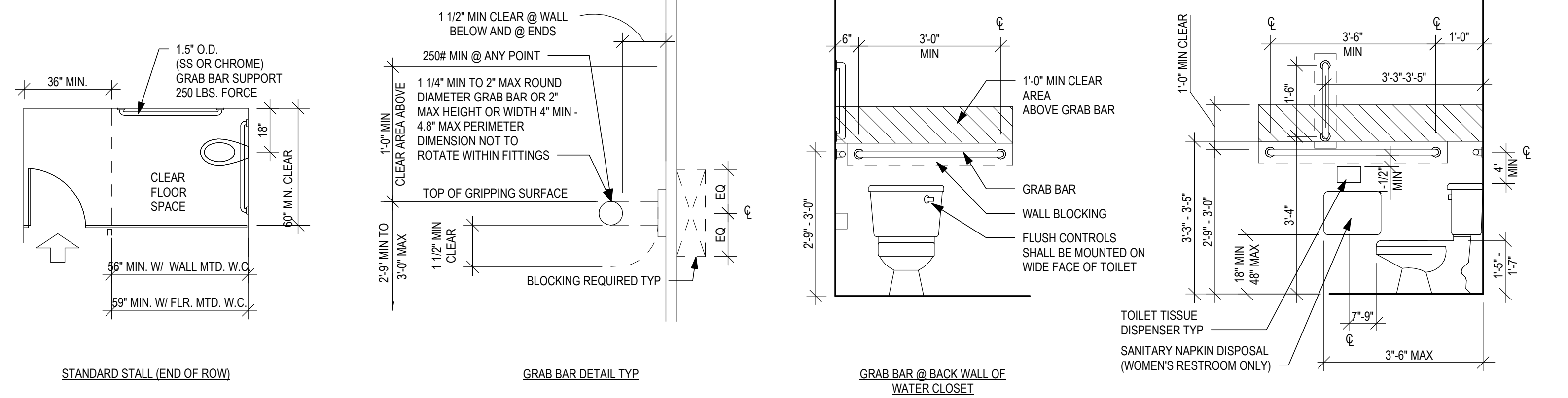
ACCESSIBLE DRINKING FOUNTAINS | C2

SCALE: 1/2" = 1'-0"

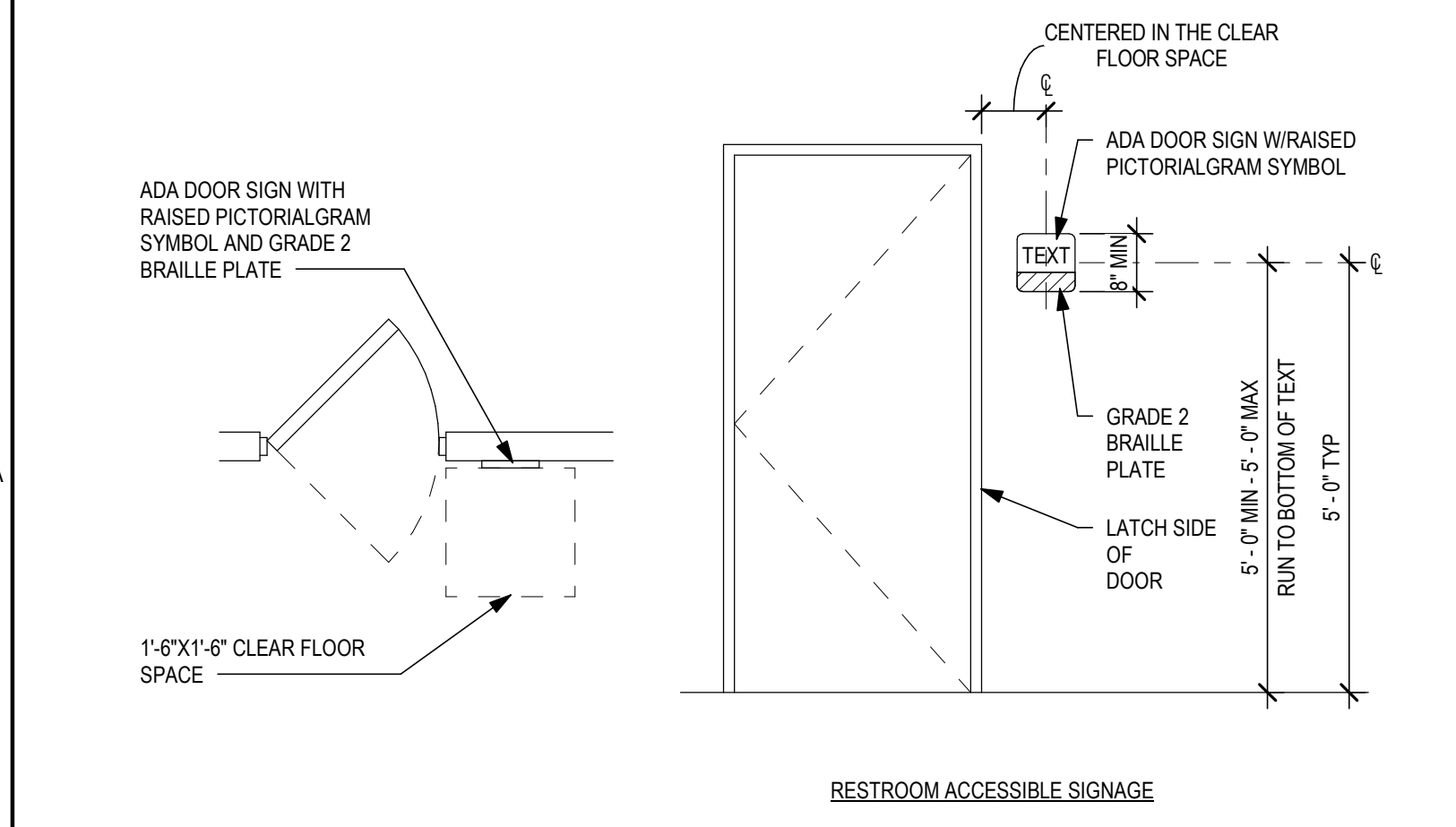


ACCESSIBLE URINALS | B5

SCALE: 1/2" = 1'-0"

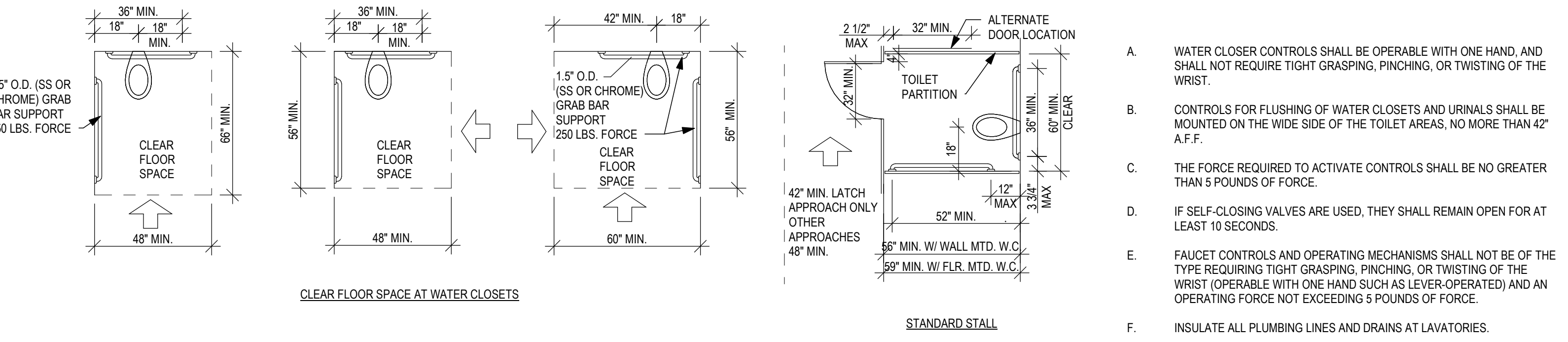


ACCESSORIES @ SIDE WALL OF WATER CLOSET



TYPICAL SIGNAGE | A5

SCALE: 1/2" = 1'-0"

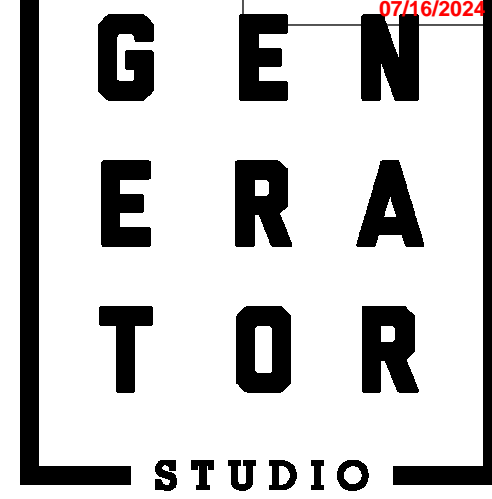


TYPICAL WATER CLOSET DETAILS | A2

SCALE: 1/2" = 1'-0"

INT. ACCESSIBILITY NOTES | A1

- WATER CLOSER CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
- CONTROLS FOR FLUSHING OF WATER CLOSETS AND URINALS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 42" A.F.F.
- THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE.
- IF SELF-CLOSING VALVES ARE USED, THEY SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
- FAUCET CONTROLS AND OPERATING MECHANISMS SHALL NOT BE OF THE TYPE REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST (OPERABLE WITH ONE HAND SUCH AS LEVER-OPERATED) AND AN OPERATING FORCE NOT EXCEEDING 5 POUNDS OF FORCE.
- INSULATE ALL PLUMBING LINES AND DRAINS AT LAVATORIES.



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ISSUE DATE:		07.03.2024
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1	CITY COMMENTS #1	07/03/2023

PROJECT NO.	16014
DRAWN BY:	JV
CHK'D BY:	GB
SHEET TITLE	

FLOOR PLAN

A101

FLOOR PLAN GENERAL NOTES

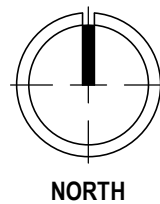
- A. THE CONTRACTOR SHALL TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ITEMS TO REMAIN, ANY DAMAGE DONE TO EXISTING ITEMS DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION AND/OR REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST TO THE OWNER.
- B. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PATCH AND REPAIR OR RESTORE AND REFINISH (AS APPLIES) ALL ADJACENT SURFACES AFFECTED BY NEW CONSTRUCTION.
- C. ALL DIMENSIONS FROM FINISH FACE OF MATERIAL TO FINISH FACE OF MATERIAL, UNLESS NOTED OTHERWISE.
- D. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT IF DISCREPANCIES EXISTING THAT WILL EFFECT LAYOUT & DESIGN INTENT.
- E. CONTRACTOR TO VERIFY / COORDINATE REQUIRED CLEARANCES FOR MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT.
- F. PROVIDE CONCEALED BLOCKING FOR ALL WALL MOUNTED ACCESSORIES & EQUIPMENT.
- G. ALL SWITCHES, OUTLETS, DATA & PHONE JACKS TO BE GRAY UNLESS NOTED OTHERWISE. ALL COVER PLATES TO BE BRUSHED SATIN NICKEL UNLESS NOTED OTHERWISE.
- H. REFER TO A601 FOR DOOR SCHEDULE AND DETAILS.
- I. ALL WALL TYPES TO BE A1 U.O.

FLOOR PLAN KEYED NOTES

- ① PROVIDE ELECTRICAL OUTLET AND DATA CONNECTION TO SERVE TABLE, DESK AND/OR EQUIPMENT ABOVE. INSTALL IN FLOOR WHERE REQUIRED AND COORDINATE LOCATION TO CONCEAL ACCESS TO GREATEST AMOUNT FEASIBLE. FINAL LOCATION TO BE COORDINATED WITH FINISH PLAN.
- ② PROVIDE HARDWARE PHONE JACK IN FLOOR. PHONE JACK TO SHARE ACCESS WITH ELECTRICAL OUTLET AND DATA CONNECTION.
- ③ PROVIDE DISPOSAL AT SINK.
- ④ DEMOUNTABLE WALL PARTITION, OWNER FURNISHED, CONTRACTOR INSTALLED 8' TALL
- ⑤ INSTALL PLUG MOLD FOR POWER AND DATA ON PLAIN SOUTH WALL FOR LENGTH OF COUNTER.
- ⑥ INSTALL RECEPTACLE & DATA CONNECTION FOR WALL MOUNTED TV. COORDINATE LOCATION TO CENTER & FULLY CONCEAL OUTLET BEHIND TV MONITOR. FINAL LOCATION TBD. PROVIDE FOR IN WALL RECESS BOX. COORDINATE WITH OWNER AS REQUIRED.
- ⑦ EQUIPMENT PROVIDED BY OTHERS. GC TO COORDINATE POWER & DATA REQUIRED FOR INSTALLATION.

TOILET ACCESSORY KEYED NOTES

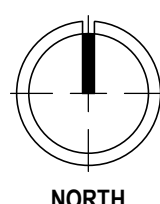
- (A) PAPER TOWEL DISPENSER BOBRICK C 4262 CONTURA SERIES
- (B) WALL MTD FRAMELESS MIRROR
- (C) WALL HUNG SINK
- (D) SOAP DISPENSER
- (E) FLOOR MTD TOILET
- (F) GRAB BARS
- (G) TOILET PAPER DISPENSER BOBERICK B-4288 CONTURA SERIES
- (H) SANITARY NAPKIN DISPENSER BOBRICK B-270 SERIES



NORTH

SHELL BUILDING PLAN

SCALE: 1" = 10'-0"

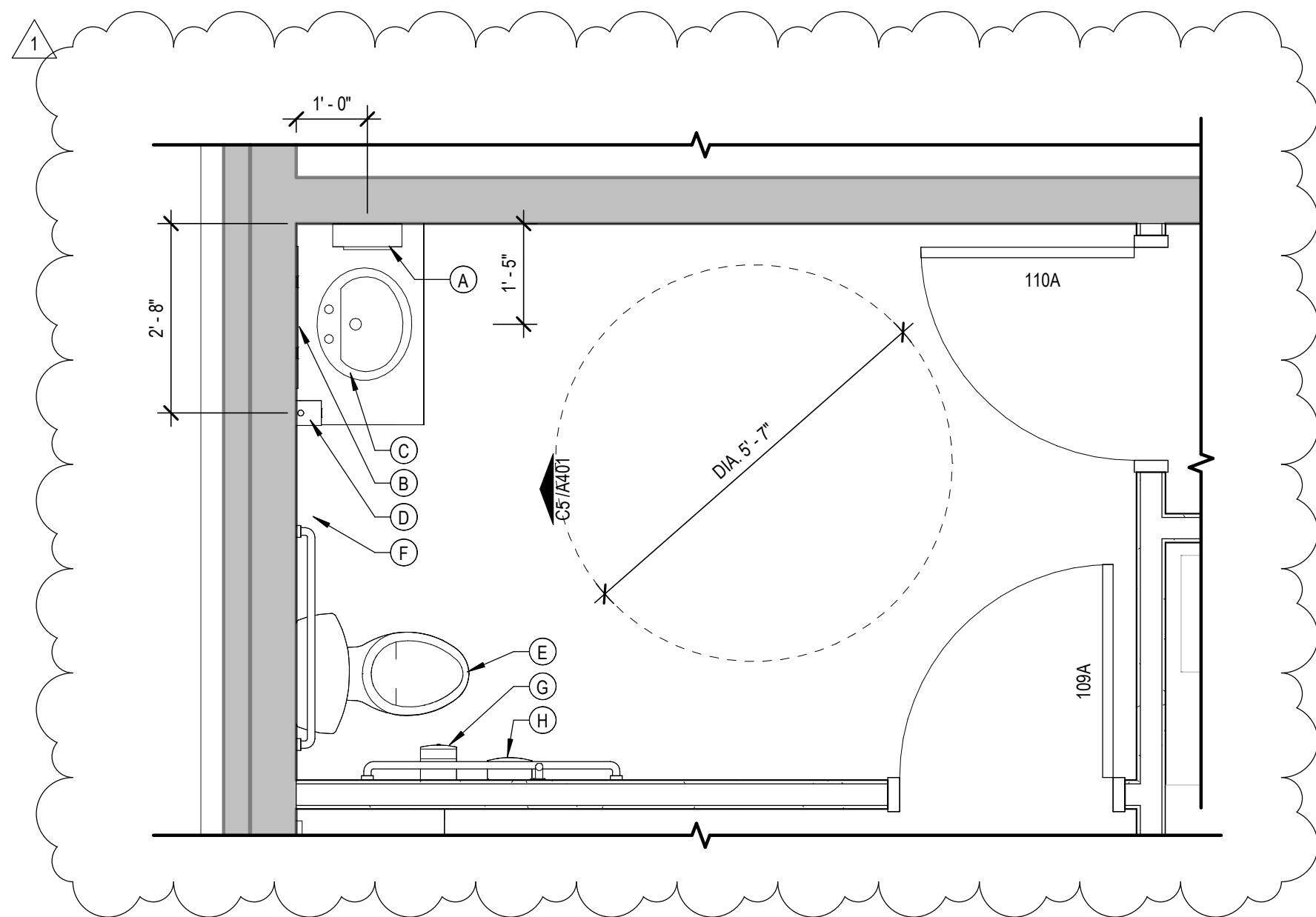


NORTH

T.I. FLOOR PLAN

SCALE: 1/4" = 1'-0"

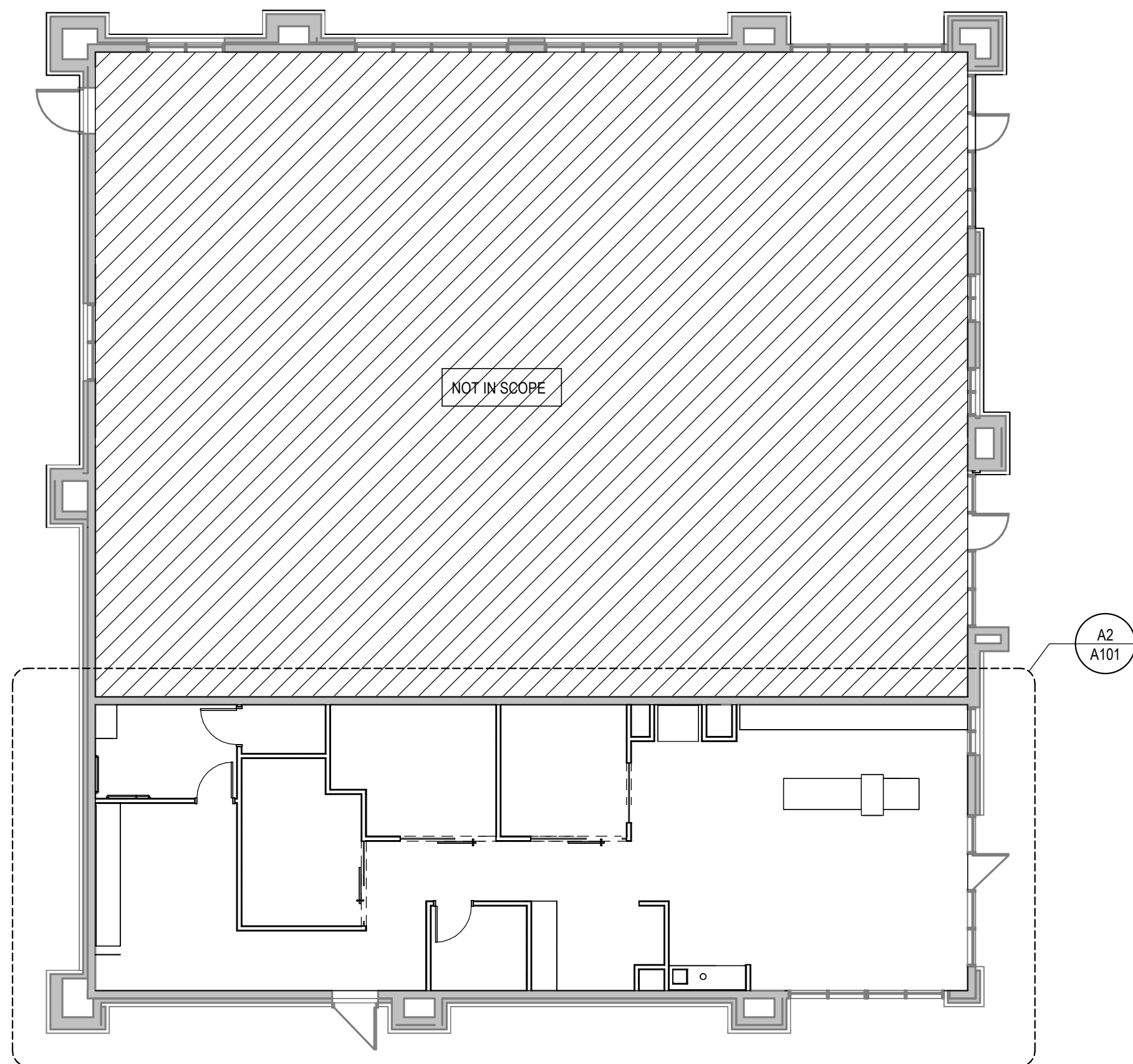
A2



ENLARGED RESTROOM PLAN

SCALE: 1/2" = 1'-0"

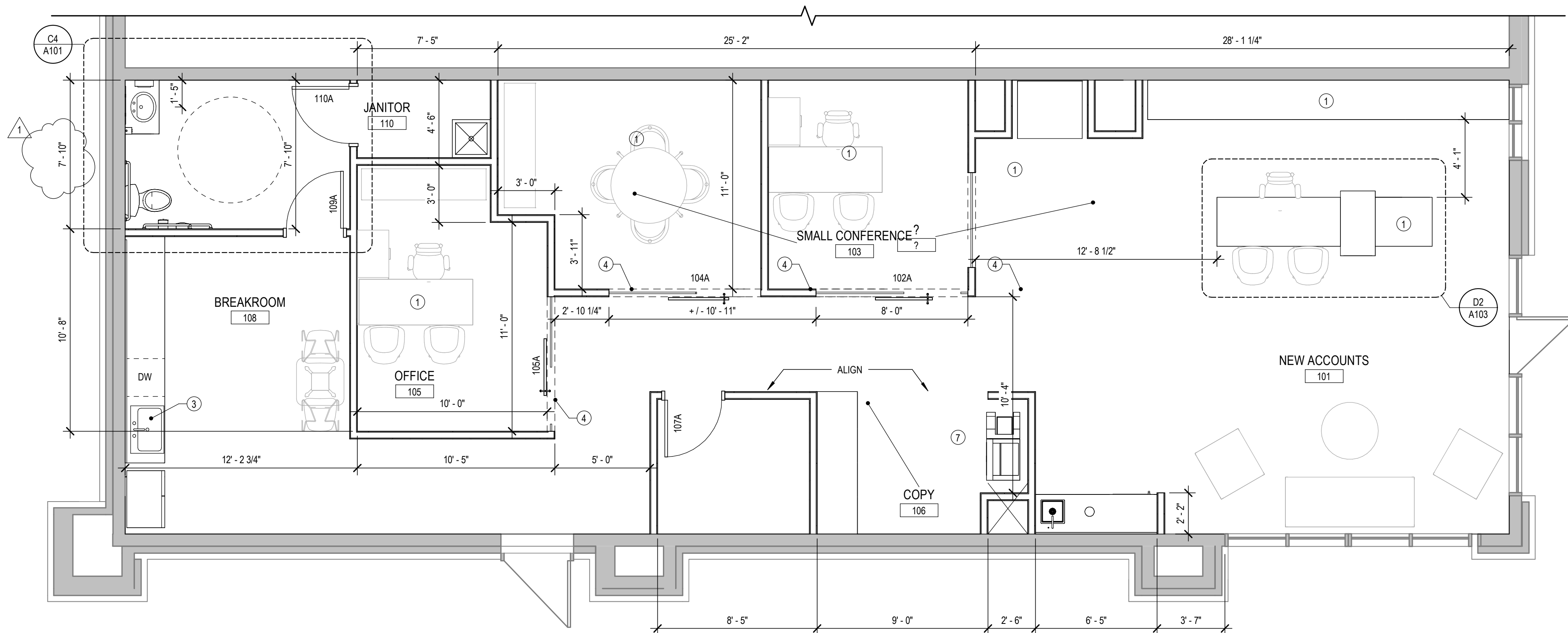
C4



SHELL BUILDING PLAN

SCALE: 1" = 10'-0"

C2



T.I. FLOOR PLAN

SCALE: 1/4" = 1'-0"

A2



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PROJECT NO. 16014
DRAWN BY: CH
CHKD BY: PB
SHEET TITLE

REFLECTED CEILING PLAN

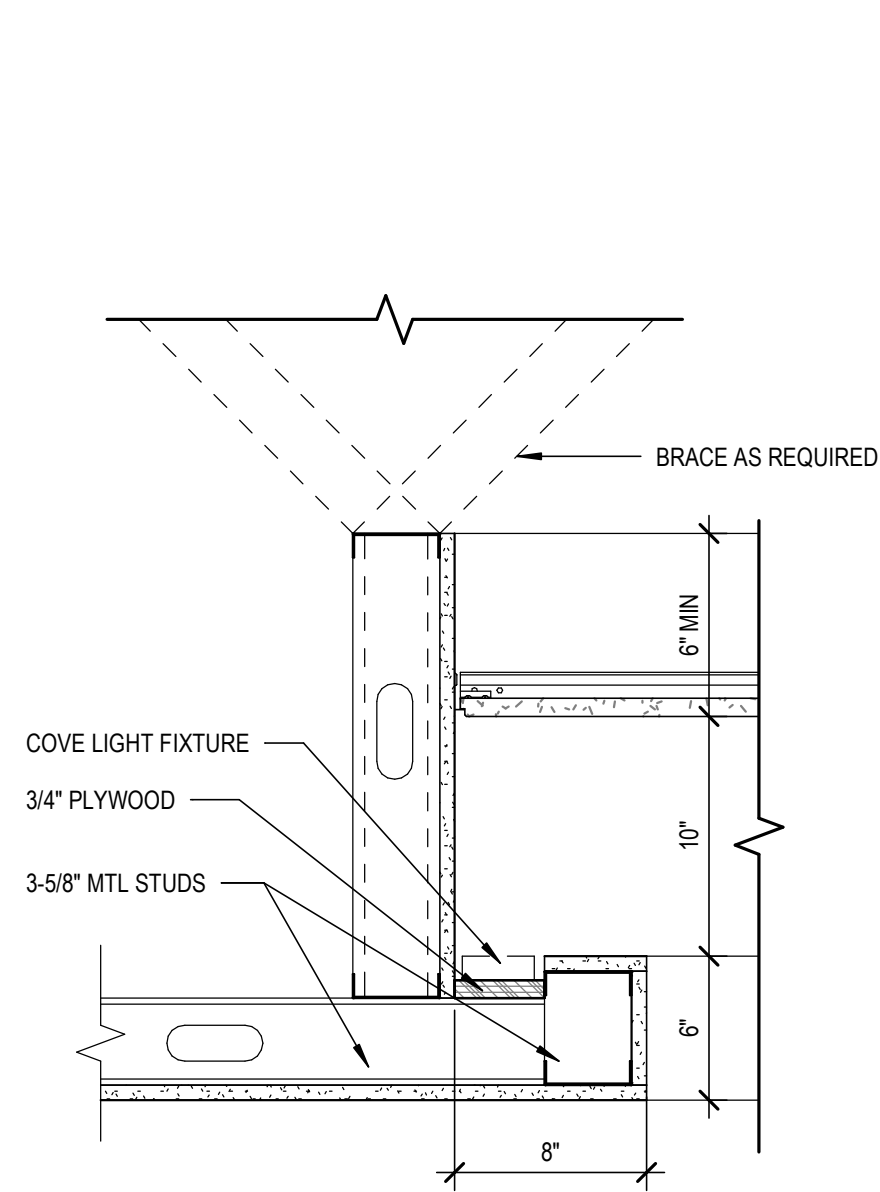
A102

CEILING PLAN GENERAL NOTES

- ALL CIRCUITING FOR ELECTRICAL TO BE BY ELECTRICAL SUBCONTRACTOR.
- PROVIDE DUPLEX OUTLETS AS IDENTIFIED ON DRAWINGS AND AS REQ'D BY CODE. PROVIDE GFCI OUTLETS IN ALL WET AREAS AS REQ'D BY CODE.
- ALL HVAC TO BE DESIGN/BUILD BY CONTRACTOR.
- CONTACT ARCHITECT IF CEILING HEIGH NOTED IN DWGS ISN'T FEASIBLE DUE TO EXISTING CONDITIONS.
- CONTRACTOR SHALL TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ITEMS TO REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION AND/OR REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST TO THE OWNER.
- INSTALL CONCEALED MECHANICAL TOUCH-LATCH ACCESS DOOR WITH CONCEALED HARDWARE & GYPSUM BOARD INLAY WHERE REQ'D.
- ALL WALL TV LOCATIONS TO BE VERIFIED WITH OWNER PRIOR TO INSTALLATION. WALL LOCATIONS SHOWN FOR PRICING PURPOSES.
- PROVIDE BI-LEVEL SWITCHING OR OCCUPAND SENSOR & AUTOMATIC LIGHTING SHUTOFF(S). PER 505.2.2.1 AND 505.2.2.2. OF THE 2006 IEEC.
- UNO CENTER ACT GRID IN EACH ROOM.

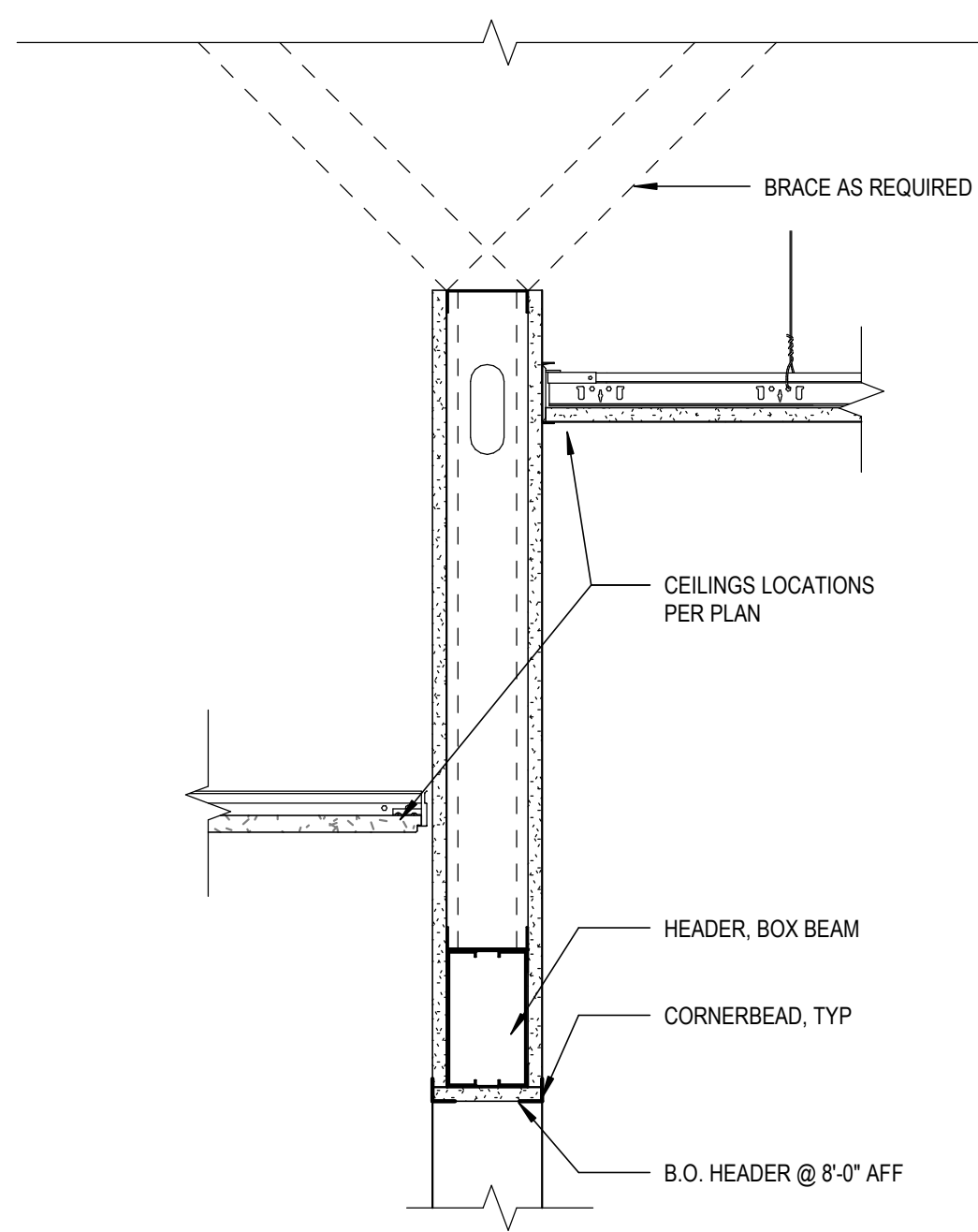
CEILING PLAN SYMBOLS LEGEND

	4" RECESSED GRID LED, XAL LIGHTING - LENO 1K731727OH70040, LED (3850 LUMEN) 3500K/30W - O.C. GRID
	NEW GYPSUM WALL BOARD CEILING
	ACT: ARMSTRONG ULTIMA 2X2, 15/16 BEVELED REGULAR
	CEILING HEIGHT TAG
	2X2 LAY-IN LIGHT FIXTURE W/ BATTERY FEATURES, LITHONIA LIGHTING, 2VTL2-40L-ADPT E21-LP840-(EL14L), LED (4000 LUMEN) 400K/35W
	2X4 LAY-IN LIGHT FIXTURE W/ BATTERY FEATURES
	4" RECESSED CAN LIGHT, LITHONIA LIGHTING, REAL6 D6MV ESL 1000L 30K
	LED STRIP LIGHTING CONCEALED IN COVER PER DETAIL C4/A111 FLEXFIRE LEDES, COLORBRIGHT NATURAL WHITE
	AREA NOT IN SCOPE



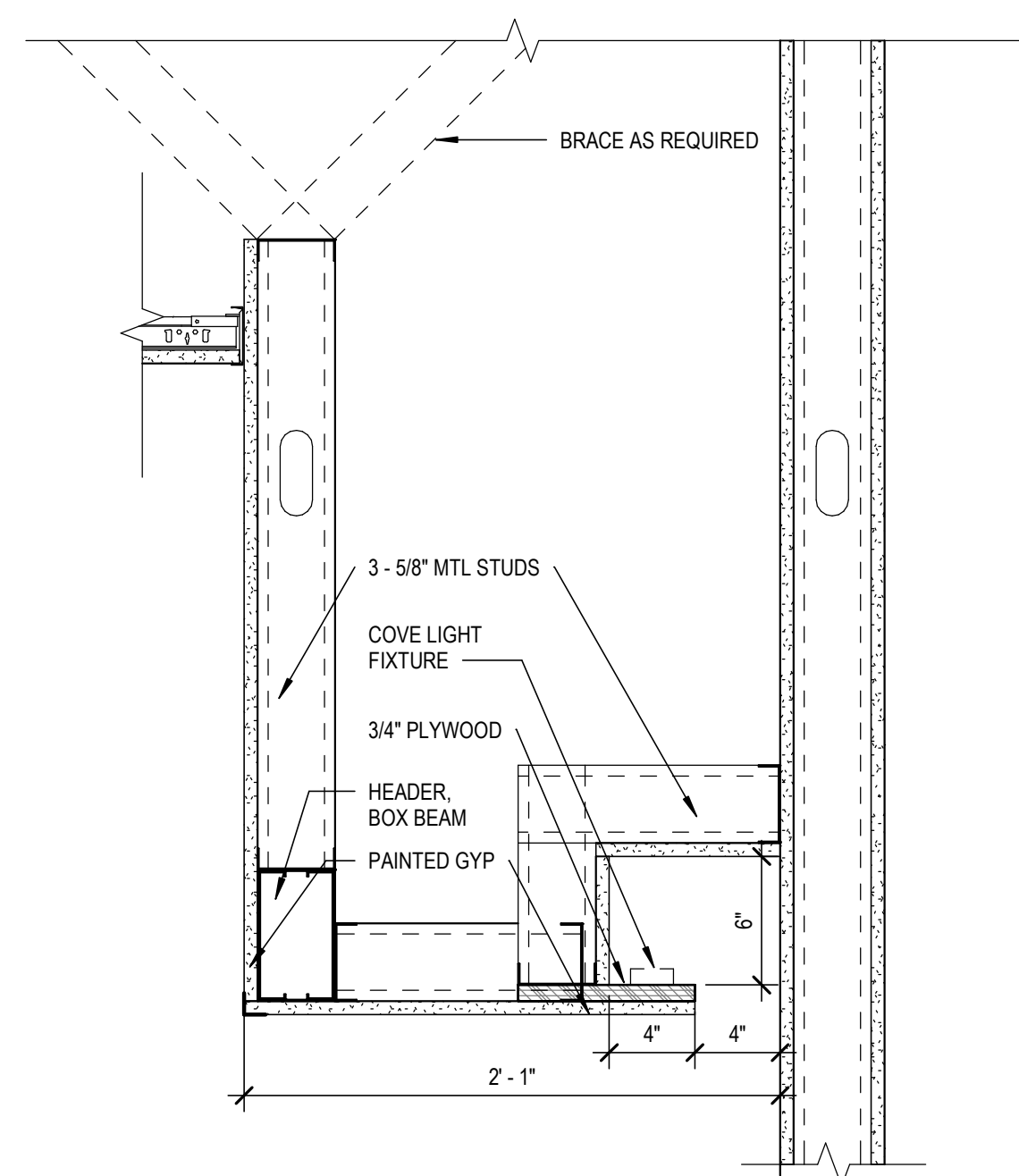
COVE DETAIL
SCALE: 1 1/2" = 1'-0"

C4



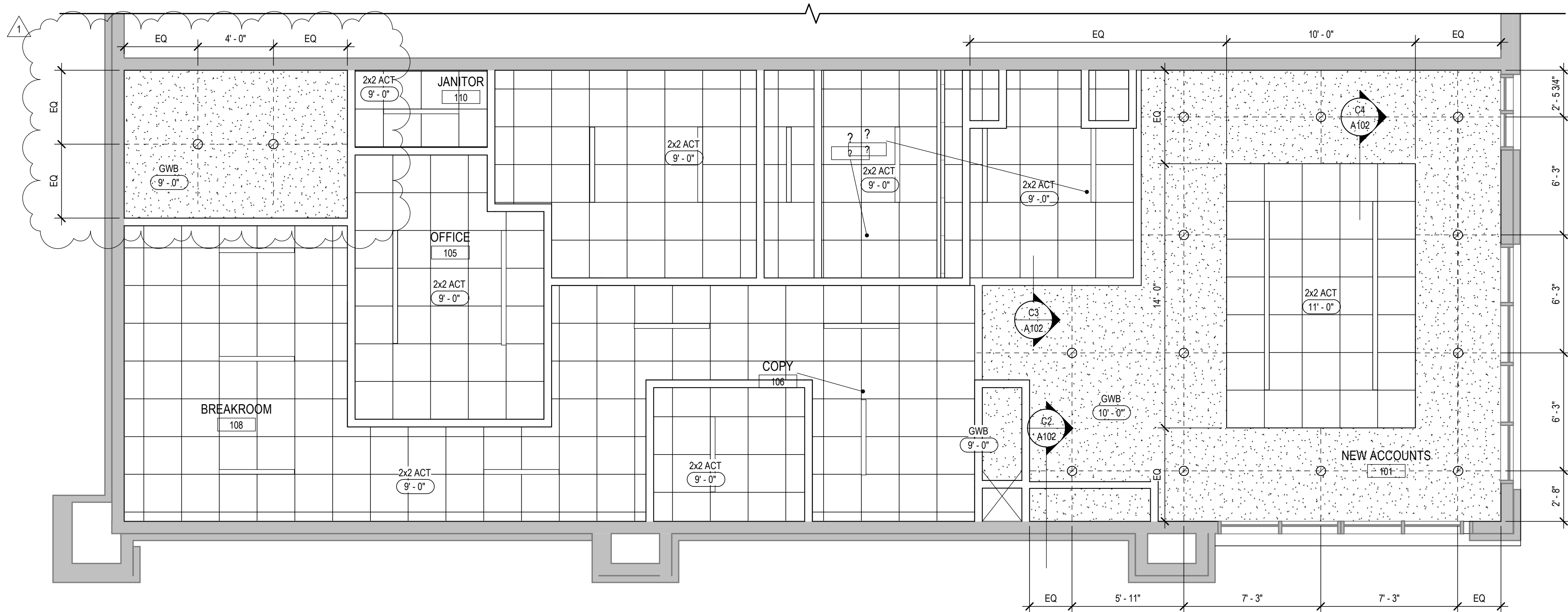
HEADER DETAIL
SCALE: 1 1/2" = 1'-0"

C3



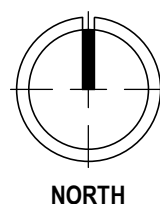
SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"

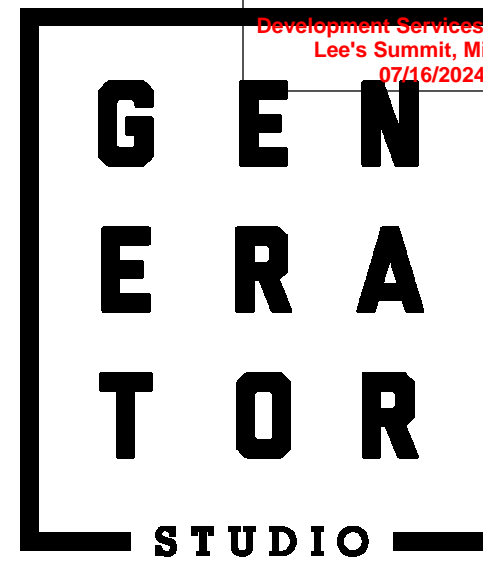
C2



REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

A2





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SEAL

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**2070 NW LOWENSTEIN DR
SUITE A
LEE'S SUMMIT, MO 64081**

FOR CONSTRUCTION

ISSUE DATE:	07.03.2024	
REV	DESCRIPTION	DATE
1	CITY COMMENTS #1	07/03/2023

PROJECT NO. 16014
DRAWN BY: CH
CHKD BY: PB
SHEET TITLE

FINISH PLAN

A103

FINISH PLAN GENERAL NOTES

- ALL WALLS TO BE P1 UNLESS NOTED OTHERWISE ON FINISH PLANS. GWB CEILINGS ARE TO BE PAINTED P3. CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE.
- ALL FLOOR AND WALL FINISHES ARE TO BE PROVIDED AND INSTALLED BY PROFESSIONAL CARPET, TILE AND/OR FLOORING CONTRACTORS.
- CONTRACTOR SHALL ADHERE TO ALL CURRENT MANUFACTURERS PRINTED SPECIFICATIONS FOR APPROVED INSTALLATION METHODS (FOR EXAMPLE, BUT NOT LIMITED TO ADHESIVE TYPES, CUTTING METHODS AND SEAM SEALERS ETC.)
- ALL MATERIALS SHALL BE INSPECTED FOR FLAWS, DEFECTS OR DISCOLORATION PRIOR TO CUTTING.
- ALL CHANGES IN FINISH FLOORING MATERIALS OCCURRING AT DOORWAYS SHALL BE AT THE CENTERLINE OF THE DOORWAY U.N.O. ALL OTHER FLOORS MATERIAL TRANSITIONS SHALL BE ACCOMPLISHED SMOOTHLY TO THE SATISFACTION OF THE ARCHITECT AND OWNER. NO HEIGHT DIFFERENCE IN FLOORING MATERIAL CHANGES PERMITTED. USE ROPPE SUBFLOOR LEVELER OR FLOOR LEVELING COMPOUND TO TAPER AS REQUIRED.
- FURNISH AND INSTALL PROPER METAL TRANSITION STRIPS AT CONNECTIONS BETWEEN CARPET AND TILE.
- CONTRACTOR TO IMMEDIATELY NOTIFY ARCHITECT/DESIGNER OF ANY VISUAL DEFECTS ENCOUNTERED DURING INSTALLATION AND SHOULD NOT PROCEED WITH INSTALLATION OF A DEFECTIVE MATERIAL.
- ALL CABINET DOORS AND DRAWERS SHALL UTILIZE HEAVY DUTY 120 EUROPEAN CONCEALED HINGES, FULL-EXTENSION DRAWER GLIDES FOR FLUSH-OVERLAY CONSTRUCTION. RE: ELEVATIONS FOR PULL TYPES AND SPECIFIC COMPONENTS.
- VINYL WALL COVERING NO SEAM DOWN MIDDLE OF WALL AND NO OPEN EDGES AT CORNERS.

FINISH LEGEND

- 1-HOUR RATED WALL PER CODE
- CARPET 1
- TILE 1
- TILE 2
- LVT 1
- SEALED CONC. FLOOR

CARPET
CPT-01 MANUF: TARKETT
PATTERN: CACHE TWEED
SIZE: 24"X24"
INSTALLATION: VERTICAL ASHLAR
COLOR: SHADOW GRIS 42710
CONTACT: ABBEY HELLAND 816.678.8605

PAINT
PT-01 BENJAMIN MOORE
COLOR: SUPER WHITE OC-152
LOCATION: FIELD PAINT
TYPE: EGGSHELL FOR WALLS; FLAT FOR CEILING

TILE
TL-01 MANUF: CROSSVILLE
PATTERN: SHADES 2.0
SIZE: 12"X24"
COLOR: THUNDER UPS
GROUT COLOR: MAPEI IRON
CONTACT: VIRGINIA TILE

PT-02 BENJAMIN MOORE
COLOR: SEAWEED 2035-10
LOCATION: ACCENT
TYPE: EGGSHELL

TL-02 MANUF: CROSSVILLE
PATTERN: SHADES 2.0
SIZE: 12"X24"
COLOR: ASH UPS
GROUT COLOR: MAPEI IRON
LOCATION: RESTROOM

PT-03 BENJAMIN MOORE
COLOR: KITTY GRAY 1589
LOCATION: ACCENT
TYPE: EGGSHELL

PT-04 BENJAMIN MOORE
COLOR: SUPER WHITE OC-152
LOCATION: WET WALL
TYPE: EPOXY

VINYL FLOORING
LVT-01 MANUF: BENTLEY MILLS
PATTERN: MEMORY
COLOR: CRAFTSMAN 801980
SIZE: 9" X 48"
INSTALLATION: RANDOM
CONTACT: ALI SKILLING 913.387.9668

SOLID SURFACE
SS-01 MANUF: CORIAN
COLLECTION: CORIAN QUARTZ
COLOR: COARSE CARRARA
CONTACT: KRISTY RHINE 314.254.6634

BASE
RB-01 MANUF: JOHNSONITE
TYPE: RUBBER BASE - COVE
COLOR: WHITE

PLASTIC LAMINATE
PL-01 MANUF: WILSONART
STYLE: MATTE FINISH
COLOR: FROSTY WHITE - 1573-60
CONTACT: MANDY BRIDGES 913.484.2691

B-01 WOOD BASE PAINTED TO MATCH WALL
PAINT COLOR RE: C1/A601 FOR DETAIL

PL-02 MANUF: WILSONART
STYLE: MATTE FINISH
COLOR: NORTH SEA D90-60
CONTACT: MANDY BRIDGES 913.484.2691

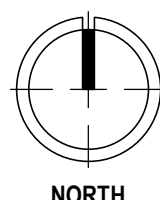
B-02 MANUF: CROSSVILLE
TYPE: TILE BASE TO MATCH FLOOR
COLOR: ASH
LOCATION: RESTROOMS

PL-03 - MANUF: WILSONART
COLOR: FAWN CYPRESS 8208K-16
CONTACT: MANDY BRIDGES 913.484.2691

ACOUSTICAL CEILING TILES
ACT-01 MANUF: ARMSTRONG
STYLE: ULTIMA 24X24
COLOR: WHITE
9/16" GRID

WOOD
WD-01 - SPECIES: WHITE OAK
GRAIN: STRAIGHT GRAIN, HORIZONTAL
ORIENTATION
STAIN: TO MATCH ARCHITECTS SAMPLE

VINYL WALL COVERING
WC-01 - MANUF: KOROSEAL WALLTALKERS
STYLE: MAG RITE II
COLOR: WHITE
TRIM: J-CAP
CONTACT: AMY NEUSAL 816-728-3971
NOTE: FEATHER WALL AS NEEDED FOR MARKERBOARDS TO BE FLAT AT TRANSITION TO J-CAP. TO BE INSTALLED STARTING 30" AFF



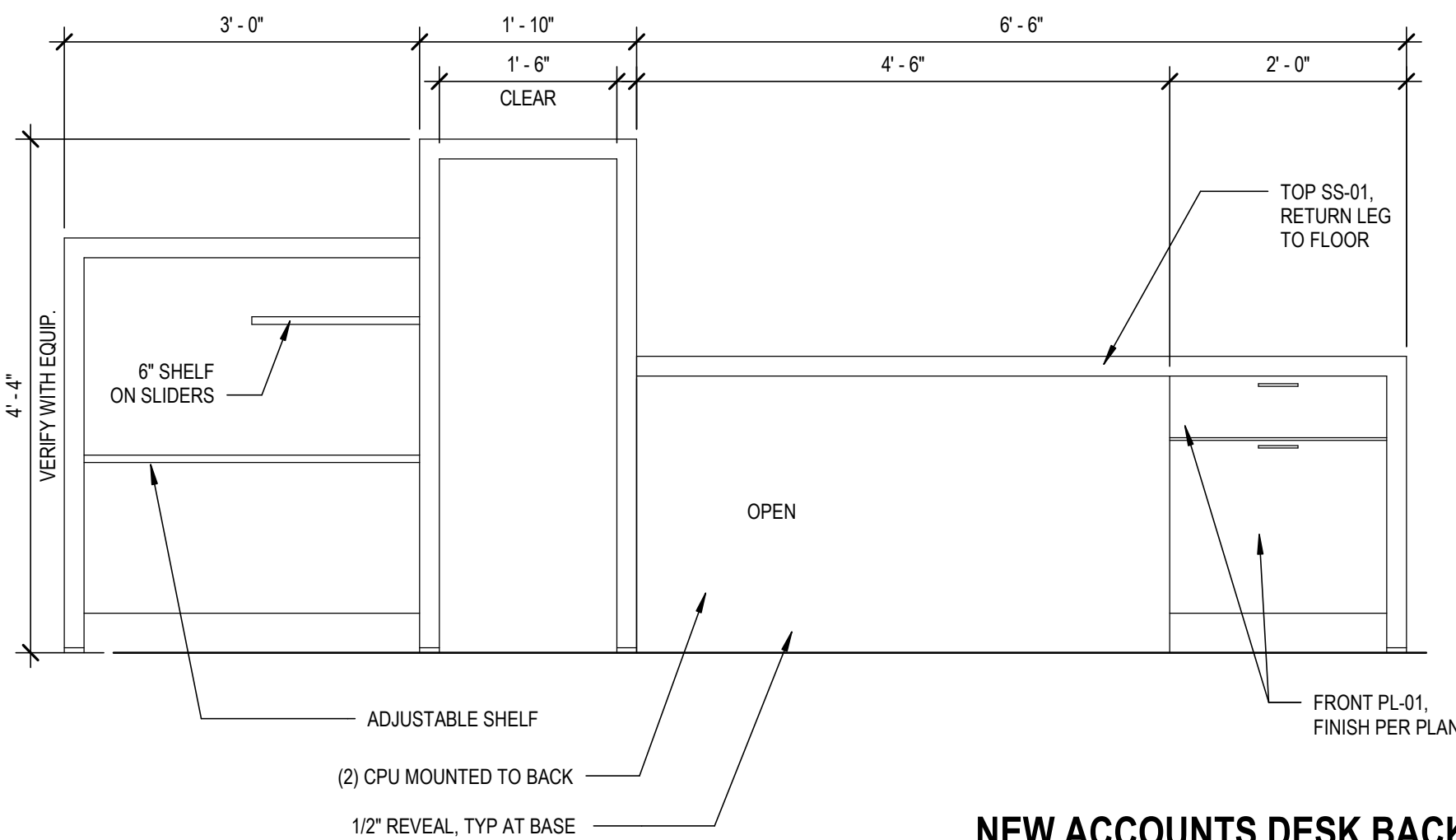
FINISH FLOOR PLAN

SCALE: 1/4" = 1'-0"

A2

ROOM SCHEDULE

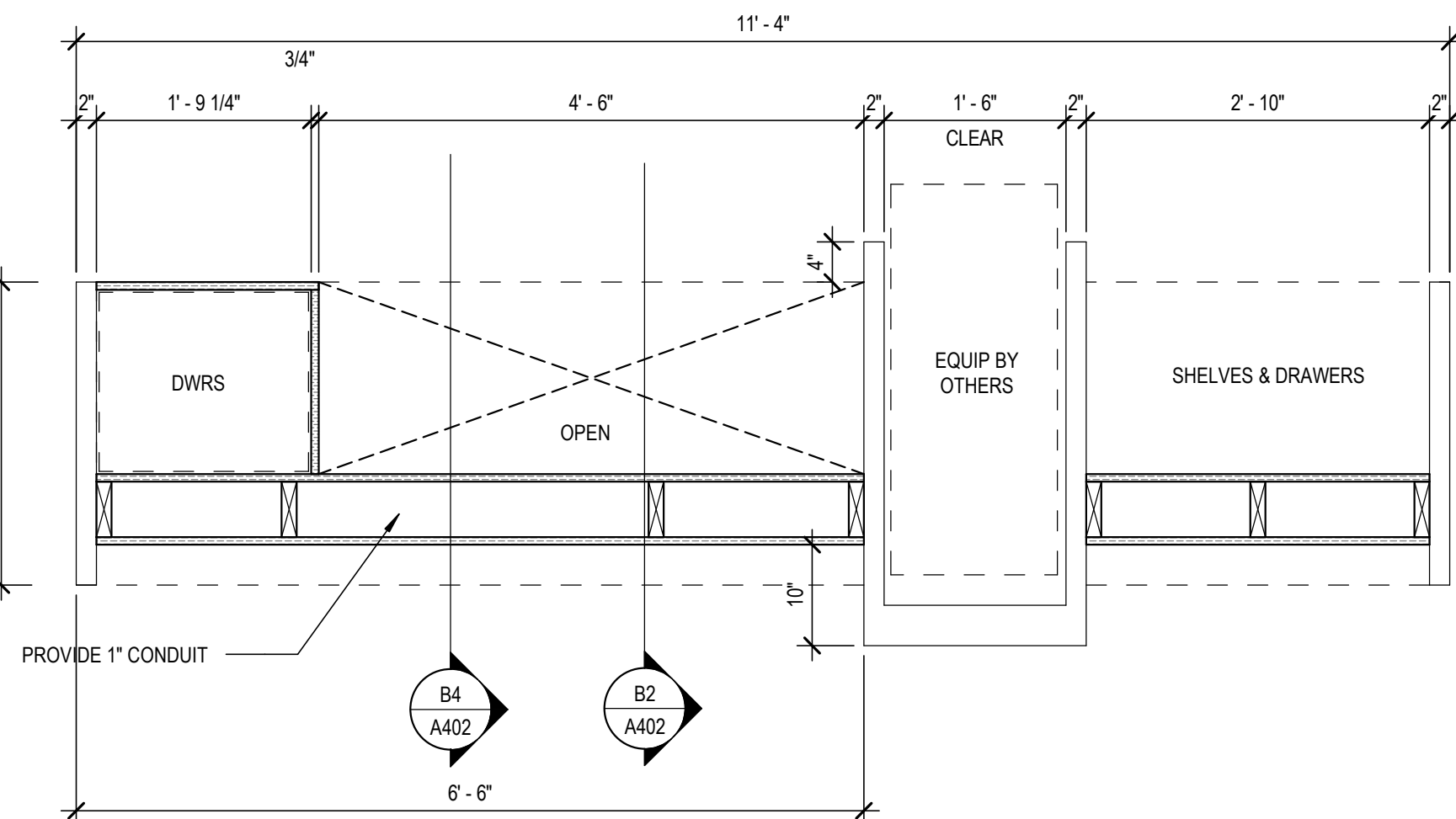
ROOM NUMBER	ROOM NAME	BASE FINISH	FLOOR FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH
101	NEW ACCOUNTS	B-01	TL-01	PT-03	PT-01	RE: A3/A401	RE: B1/A401	RE: RCP
102	BCIM	RB-01	CPT-01	PT-03	PT-01	PT-01	PT-01	ACT-01
103	SMALL CONFERENCE	RB-01	CPT-01	WC-01	PT-01	PT-01	PT-01	ACT-01
104	OFFICE	RB-01	CPT-01	PT-03	PT-01	PT-01	PT-01	ACT-01
105	OFFICE	RB-01	TL-02	PT-01	PT-03	PT-01	PT-01	ACT-01
106	COPY	RB-01	TL-01	RE: B1/A401	PT-01	RE: A4/A401	PT-01	ACT-01
107	MECH / IT	RB-01	SC-01	PT-01	PT-01	PT-01	PT-01	ACT-01
108	BREAKROOM	RB-01	LVT-01	PT-01	PT-01	PT-01	RE: C2/A401	ACT-01
109	RESTROOM	B-02	TL-02	TL-02	TL-02	TL-02	TL-02	RE: RCP
110	JANITOR	RB-01	SC-01	PT-04	PT-04	PT-04	PT-04	ACT-01



NEW ACCOUNTS DESK BACK

SCALE: 3/4" = 1'-0"

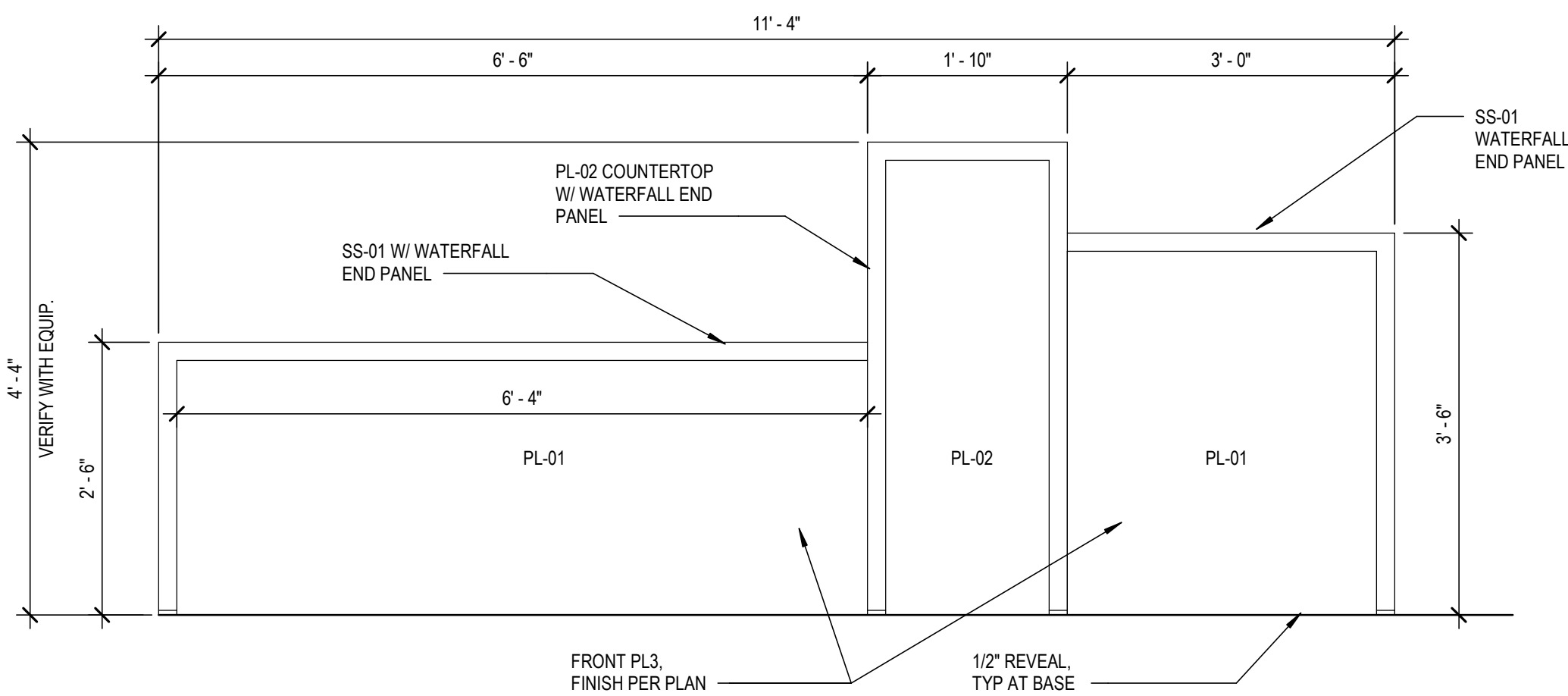
C4



NEW ACCOUNTS DESK PLAN

SCALE: 3/4" = 1'-0"

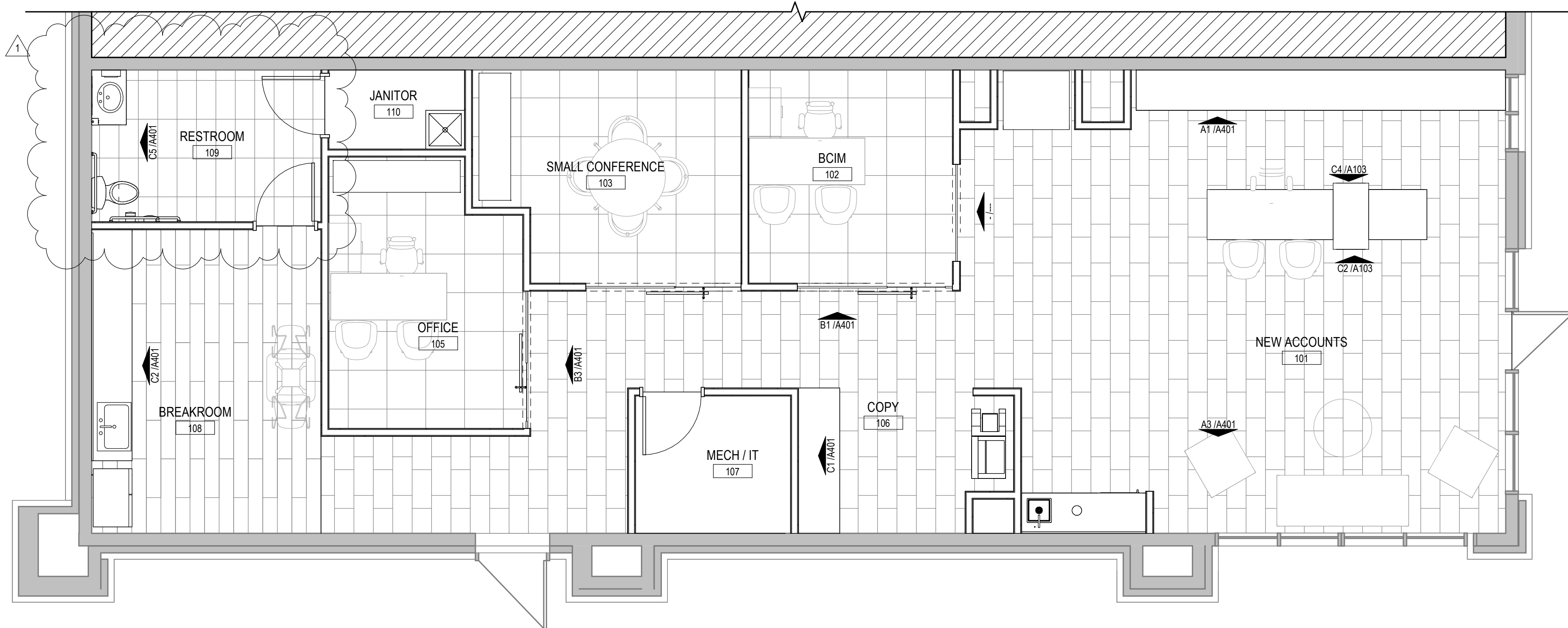
D2



NEW ACCOUNTS DESK FRONT

SCALE: 3/4" = 1'-0"

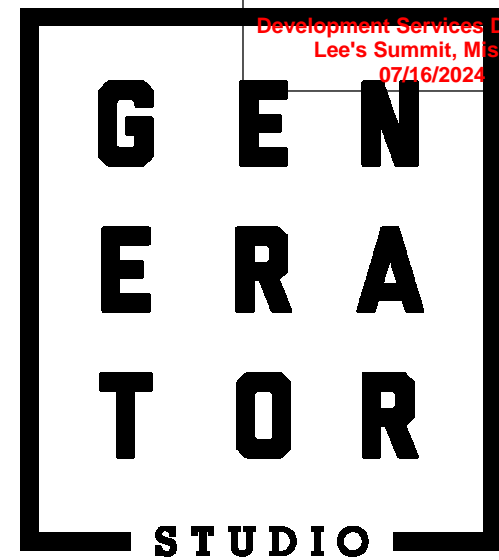
C2



FINISH FLOOR PLAN

SCALE: 1/4" = 1'-0"

A2



OWNER
DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MISSOURI 64105
816.472.5244

ARCHITECT
GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CIVIL ENGINEER
UHL ENGINEERING INC
7211 W 98TH TERRACE SSTE 110
OVERLAND PARK, KS 66212
913.385.2670
UHLENGINEERING.COM

MEP ENGINEER
ADVANCED CONSULTING ENGINEERS
132 KELLEY DRIVE
ROGERS, AR 72756
479.631.1712 EXT 101
ADVENGINEERS.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT: THOMAS JASON PROEBSTLE
LICENSE NO. A-2002017812



07/03/2024

Thomas Jason Proebstle

SEAL

ACADEMY BANK LEE'S SUMMIT

2070 NW LOWENSTEIN DR
SUITE A
LEE'S SUMMIT, MO 64081

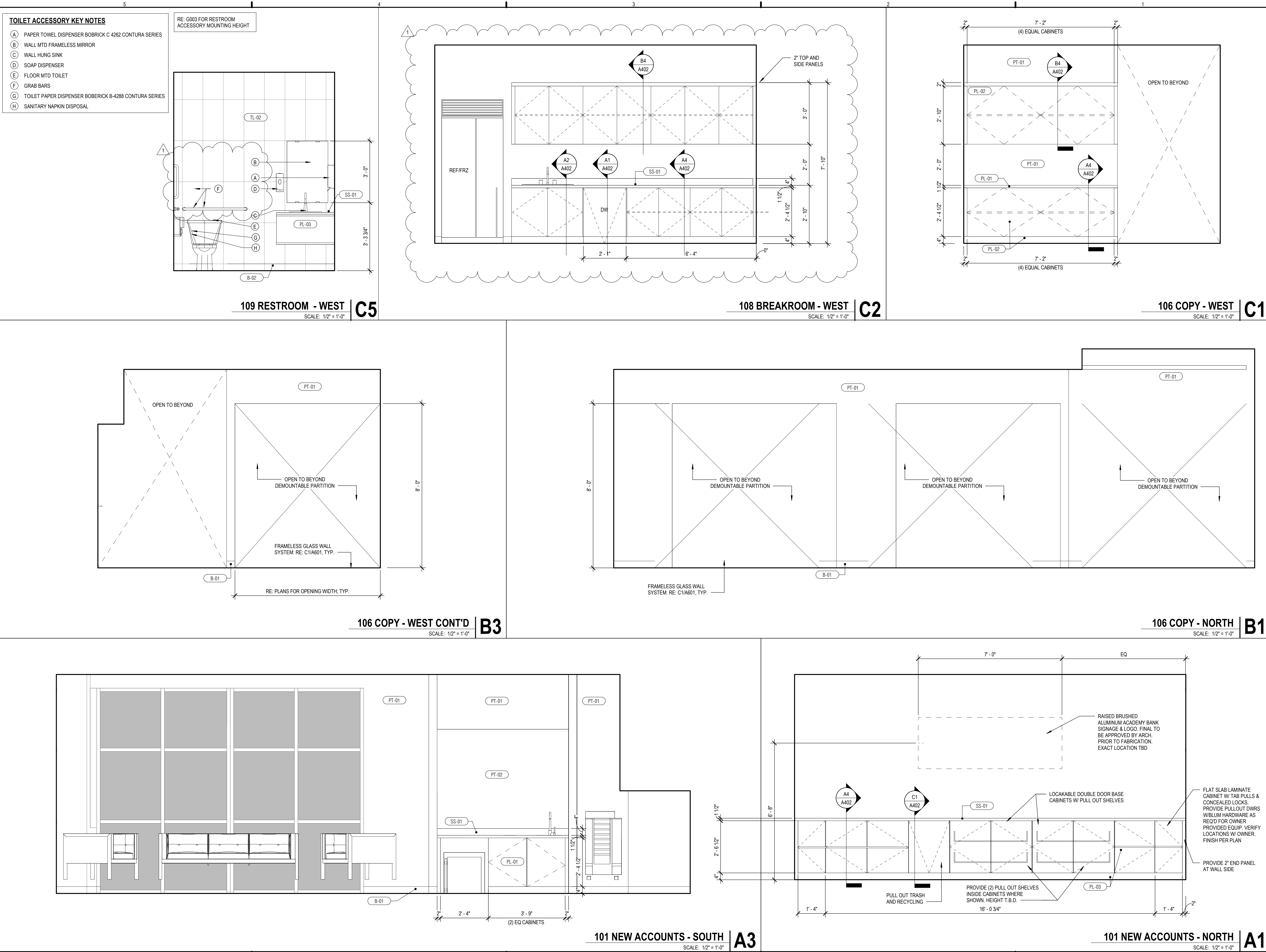
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INTERIOR ELEVATIONS

A401



DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MISSOURI 64105
816.472.5244

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

UHL ENGINEERING INC
7211 W 98TH TERRATE STE 110
OVERLAND PARK, KS 66212
913.385.2670
UHLENGINEERING.COM

ADVANCED CONSULTING ENGINEERS
132 KELLEY DRIVE
ROGERS, AR 72756
479.631.1712 EXT 101
ADVENGINEERS.COM

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT:	THOMAS JASON PROEBSTLE
LICENSE NO.	A-2002017812



2070 NW LOWENSTEIN DR
SUITE A
LEE'S SUMMIT, MO 64081

[illegible]

MILLWORK DETAILS

A402



APPLIANCE SCHEDULE



DICKINSON FINANCIAL CORPORATION
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KANSAS CITY, MISSOURI 64105
816.472.5244

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
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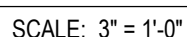
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ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

SEAL

A601



1. DOORS ARE TO HAVE LEVER TYPE HARDWARE, SCHLAGE ND-SERIES OR EQUAL, UNLESS OTHERWISE NOTED.

2. ALL EXPOSED HARDWARE SHALL BE FINISH 626, SATIN CHROMIUM PLATED, UNLESS OTHERWISE NOTED. VERIFY FINISHES WITH ARCHITECT PRIOR TO ORDERING.

3. OVERHEAD CLOSERS INDICATED SHALL BE FURNISHED WITH MAXIMUM OPENING LIMITATION OF 10 DEGREES.

4. ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING OR FABRICATION.

5. GLAZING SHALL BE FIELD VERIFIED TO CONFORM TO THE DRAWINGS OR AS REQUIRED TO MEET THE REQUIREMENTS OF IRC AND IBC.

6. IF HARDWARE SCHEDULE REFLECTS THE DESIGN INTENT, THE ABOVE SCHEDULE ONLY AND SHOULD NOT BE CONSIDERED. DETAILED HARDWARE SCHEDULE, DISCREPANCIES, CONFLICTING HARDWARE AND MISSING ITEMS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT WITH CORRECTIONS MADE PRIOR TO THE BIDDING PROCESS AND INSTALLATION.

7. OMITTED ITEMS NOT INCLUDED IN A HARDWARE SET SHOULD BE SCHEDULED WITH THE APPROPRIATE ADDITIONAL HARDWARE REQUIRED FOR PROPER APPLICATION AND FUNCTIONALITY. CONTRACTOR TO COORDINATE KEYING WITH THE OWNER. ALL SPECIAL LOCKING ARRANGEMENTS TO COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

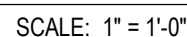
8. DOOR OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TRIP PINCHING OR TWISTING OF THE WRIST.

9. ALL DOORS SHALL BE READY OPERABLE FROM THE EGRESS SIDE W/ SPECIAL KNOWLEDGE OF USE OF KEY OR KEYPAD.

10. ALL DOOR HARDWARE MUST BE ADA COMPLIANT.

11. ALL HARDWARE MUST BE REVIEWED WITH ARCHITECT AND OWNER PRIOR TO ORDER AND INSTALLATION.

12. U.N.O. ALL HM DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL.



MECHANICAL LEGEND AND ABBREVIATIONS

ABBREVIATIONS - MECHANICAL	
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BOILER
BD	BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
BO	BLANK OFF
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	CEILING DIFFUSER
CFF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CH	CHILLER
CO	CLEAN OUT
COMP	COMPRESSOR
CONV	CONNECTOR
CR	CEILING REGISTER
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	CONDENSER WATER
DB	DRY BULB
DA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECH	ELECTRIC CABINET HEATER
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATOR
EHC	ELECTRIC HEATING COIL
ELH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
"F	DEGREES FAHRENHEIT
F	FILTER
FSD	FURNISHED BY OTHERS
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)
FCC	FIRE CONTROL CENTER
FCU	FAN COIL UNIT
FD	FUSIBLE LINK FIRE DAMPER W/ DUCT ACCESS DOOR
FLR	FLOOR
FLA	FULL LOAD AMPS
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FRE	FIRE RATED ENCLOSURE
FSD	COMBINATION FIRE AND SMOKE DAMPER
FT	FEET
FTB	FIN TUBE RADIATOR
GLY	GLYCOL
GPM	GALLONS PER MINUTE
GK	GENERAL EXHAUST
HC	HEATING COIL
HTP	HEAT PUMP
HP	HORSE POWER
HR	HOUR
HRI	HEAT RECOVERY UNIT
HTW	HEATWHEEL
HV	HEATING AND VENTILATING UNIT
HW	HOT WATER
HK	HEAT EXCHANGER
ID	INSIDE DIMENSION
KW	KILOWATT
KWH	KILOWATT HOURS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER (CEILING, WALL, SILL OR FLOOR)
LRA	LOCK ROTOR AMPS
LWS	LOUVER WITH WIRE SCREEN
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURER

ABBREVIATIONS - MECHANICAL	
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
MLA	MAKE UP AIR UNIT
MOCF	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NIC	NOT IN THIS CONTRACT
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIMENSION
P	PUMP
PD	PRESSURE DROP
PHC	PRE-HEAT COIL
PHX	PLATE HEAT EXCHANGER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
(R)	EXISTING TO BE RELOCATED
RA	RETURN AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAD	SEE ARCHITECTURAL DRAWINGS
SD	SMOKE DAMPER
SF	SUPPLY FAN
SED	SEE ELECTRICAL DRAWINGS
SENS	SENSIBLE
SM	SHEET METAL
SP	STATIC PRESSURE
STP	STAIR PRESSURIZATION
SQFT	SQUARE FEET
ST	SOUND TRAP
SX	SMOKE EXHAUST
TF	TRANSFER FAN
TRD	TRANSFER DUCT
TRG	TRANSFER GRILLE
TX	TOILET EXHAUST
TYP	TYPICAL
UH	UNIT HEATER
UN	UNLESS OTHERWISE NOTED
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME
VS	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WITH
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WO-SIZE	WALL OPENING - (SIZE)
(X)	EXISTING TO BE DEMOLISHED
(X00)	CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE

PIPING LEGEND	
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	REFRIGERANT LIQUID PIPING

PIPING LEGEND (CONTINUED)	
	REFRIGERANT SUCTION PIPING
	REFRIGERANT-SAFETY VALVE RELIEF LINE
	HOT GAS PIPING
	DOMESTIC COLD WATER MAKE-UP
	ARROW INDICATES DIRECTION OF FLOW
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	DRAIN LINE
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
	EXPANSION LOOP (SIZE A/B)
	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR
	CONCENTRIC REDUCER (INCREASER)
	ECCENTRIC REDUCER (INCREASER)
	UNION
	CAPPED PIPE WITH SHUT-OFF VALVE
	"Y" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	"Y" TYPE STRAINER
	BASKET TYPE STRAINER
	DUPLEX STRAINER
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SLOPED CHANGE IN PIPE ELEVATION
	FLEXIBLE CONNECTION
	SHUT-OFF VALVE
	AUTOMATIC FLOW CONTROL VALVE
	CALIBRATED BALANCE VALVE
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC THREE-WAY CONTROL VALVE
	AUTOMATIC TWO-WAY CONTROL VALVE
	RELIEF VALVE
	ANGLE RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
	LUBRICATED PLUG VALVE
	LOCKSHIELD GLOBE VALVE
	SOLENOID VALVE
	BUTTERFLY VALVE (MANUAL)
	BUTTERFLY VALVE (MOTORIZED)
	BALL VALVE
	PUMP

PIPING LEGEND (CONTINUED)	
	DIRT POCKET
	REFRIGERANT EXPANSION VALVE
	SIGHT GLASS
	VALVE IN VERTICAL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL (THERMOMETER)
	PRESSURE GAUGE AND COCK
	PRESSURE GAUGE WITH LOOP
	TEMPERATURE-PRESSURE TEST FITTING
	CENTER LINE
	HEAT TRACED PIPING
	PIPE SLEEVE
	BEAM PENETRATION
	PIPE GUIDE
	PIPE CAP
	PIPE BLIND FLANGE

DUCTWORK LEGEND	
	DUCT SPLIT WITH SPLIT SIZE
	RADIUS ELBOW
	ELBOW WITH TURNING VANES
	RECTANGULAR BRANCH TAKEOFF WITH BALANCING DAMPER
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN OR EXHAUST DUCT UP
	RECTANGULAR RETURN OR EXHAUST DUCT DOWN
	ROUND DUCT, UP
	ROUND DUCT, DOWN
	BEAM PENETRATION
	SLOPING RISE IN DUCTWORK

DUCTWORK LEGEND (CONTINUED)	
	SLOPING DROP IN DUCTWORK
	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
	OVAl DUCT SIZE
	SIDE, TOP OR BOTTOM DUCT ACCESS DOOR
	ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)
	RECTANGULAR OR SQUARE TO ROUND OR OVAL TRANSITION
	FLEXIBLE CONNECTION
	DUCT ENDCAP
	FLEXIBLE DUCT
	DUCT COIL WITH ACCESS DOOR
	VOLUME DAMPER IN DUCT
	AUTOMATIC CONTROL DAMPER
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR
	SMOKE DAMPER WITH DUCT ACCESS DOOR
	COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR
	BACK DRAFT DAMPER WITH DUCT ACCESS DOOR
	LINEAR DIFFUSER
	LINEAR DIFFUSER WITH PLENUM
	CEILING DIFFUSER
	CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
	RETURN/EXHAUST REGISTER OR GRILLE
	ROUND CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
	ROUND CEILING DIFFUSER
	FLOOR SWIRL DIFFUSER
	FIRE RATED ENCASED DUCT
	TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE)
	WALL OPENING ABOVE HUNG CEILING (SIZE)
	SUPPLY REGISTER WITH AIR OUTLET DEVICE DESIGNATION
	RETURN OR EXHAUST REGISTER OR GRILLE WITH AIR INLET DEVICE DESIGNATION
	TERMINAL UNIT WITH/WITHOUT HEATING COIL
	FAN POWERED TERMINAL UNIT WITH/WITHOUT HEATING COIL

APPLICABLE CODES

CODES:

- 2018 INTERNATIONAL MECHANICAL CODE
- COMPLY WITH LOCAL JURISDICTION REQUIREMENTS

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

MISCELLANEOUS	
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SWITCH
	NEW WORK
	EXISTING WORK
	EXISTING WORK TO BE REMOVED
	POINT OF NEW CONNECTION TO EXISTING WORK
	OVAL
	DIAMETER
	UNDERCUT DOOR
	RISER DESIGNATION
	RISER NUMBER
	SECTION DESIGNATION
	DETAIL DESIGNATION
	EQUIPMENT DESIGNATION
	EQUIPMENT TYPE, EQUIPMENT FLOOR AND NUMBER
	TERMINAL DESIGNATION
	AIR OUTLET/INLET DEVICE DESIGNATION
	LINEAR DIFFUSER DEVICE DESIGNATION
	KEYNOTE

MECHANICAL DRAWING LIST	
SHEET NUMBER	SHEET NAME
M-000	MECHANICAL LEGEND & ABBREVIATIONS
M-100	MECHANICAL FLOOR PLAN & SCHEDULES
M-700	MECHANICAL SPECIFICATIONS

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OWNER

DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

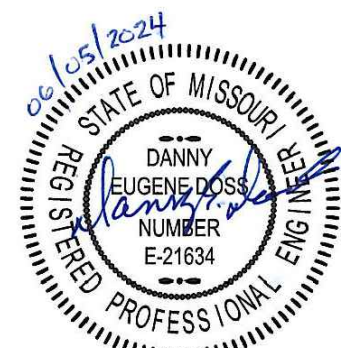
ARCHITECT

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.696.1111
SOUTHWINDGRP.COM

ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

ACADEMY BANK
BRANCH:
LEE'S SUMMIT

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

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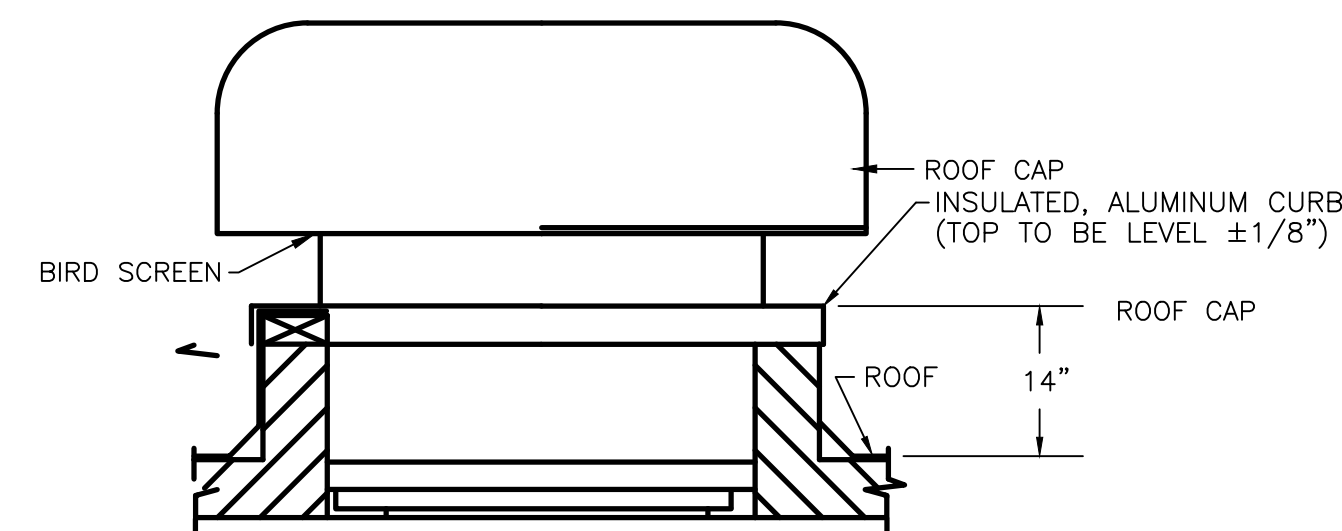
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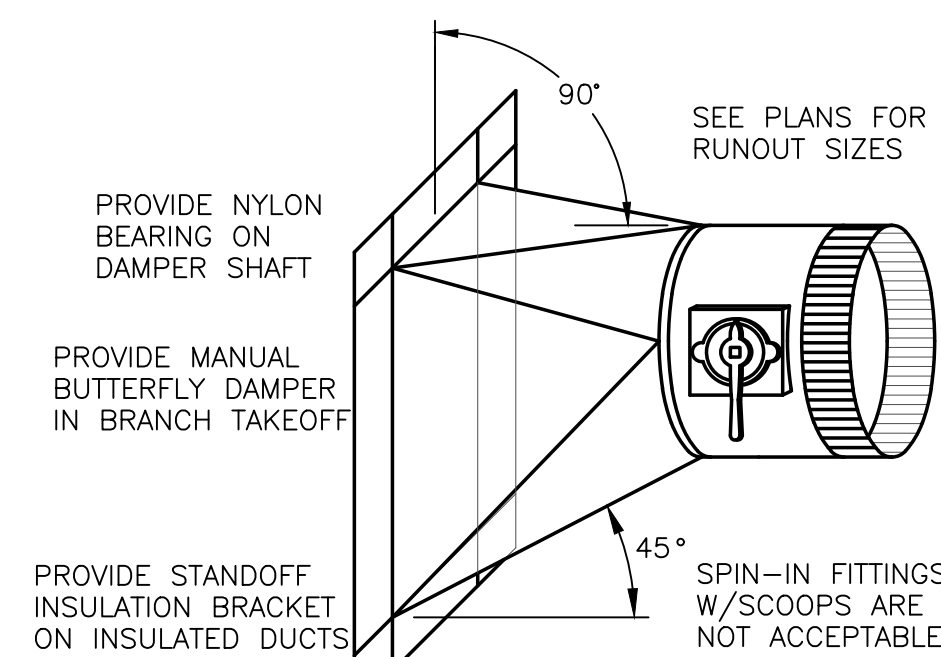
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ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
acei@advengineers.com

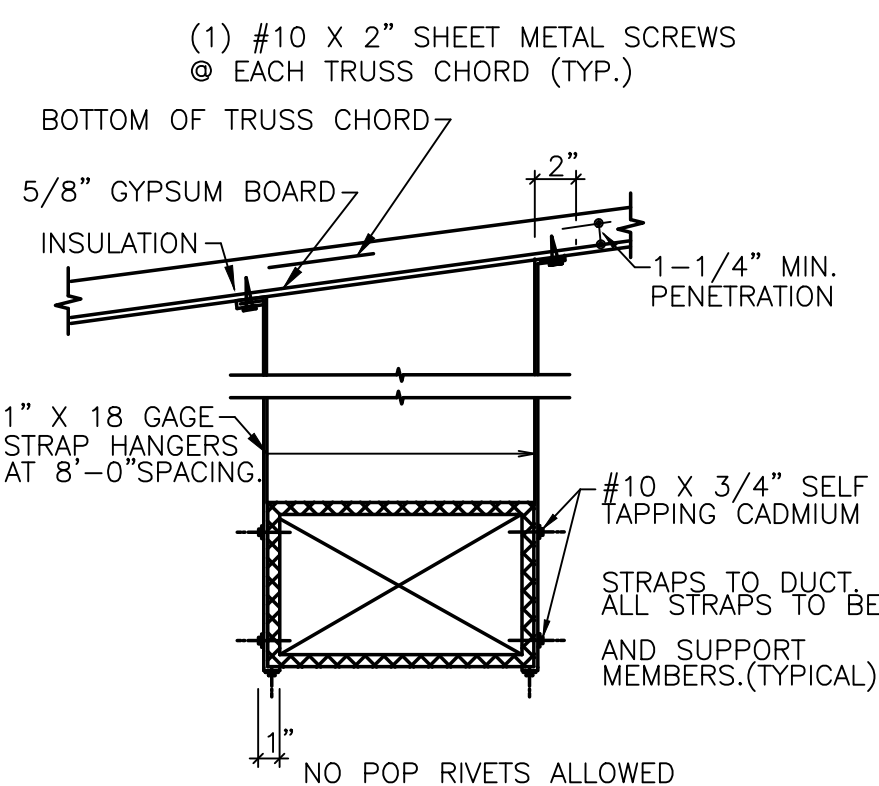
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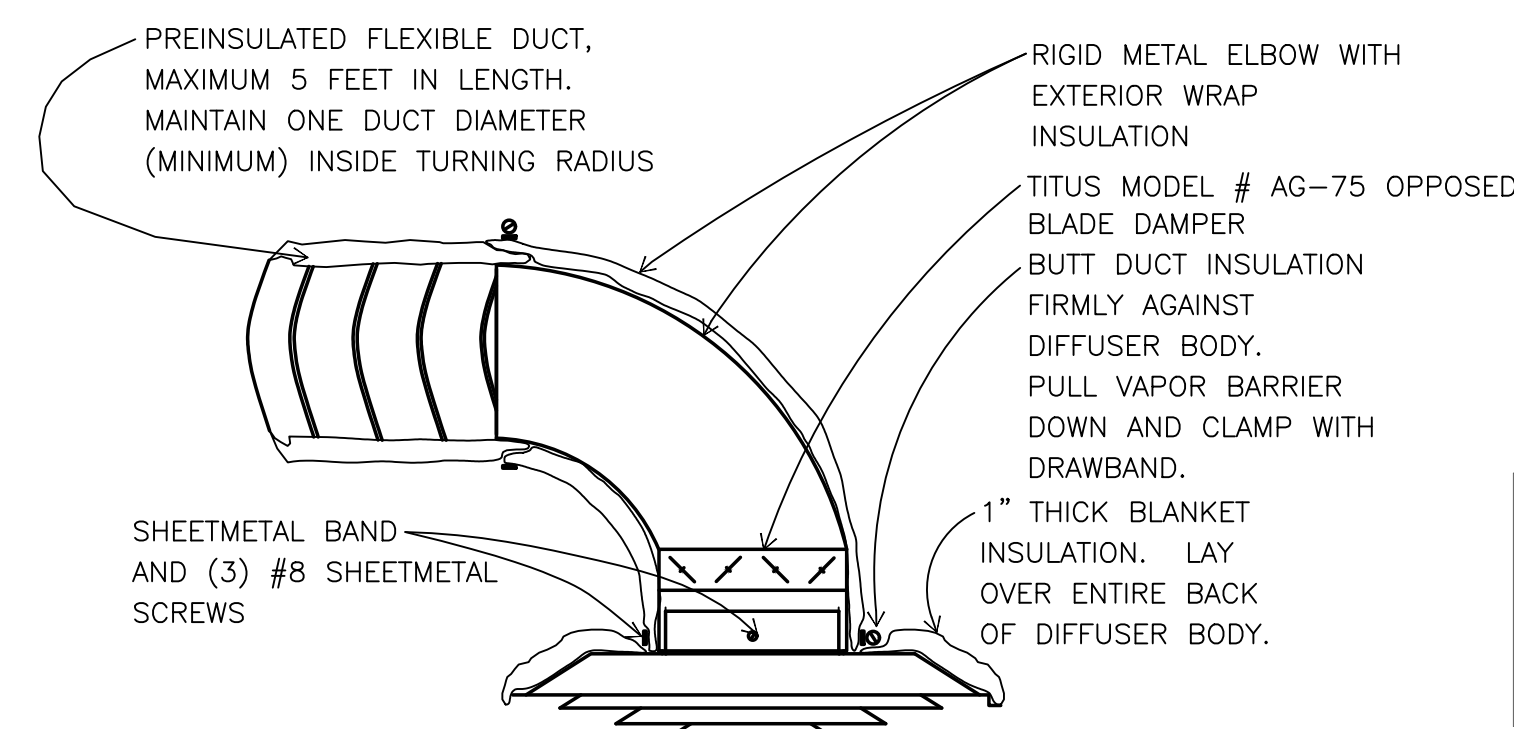
4 ROOF CAP
N.T.S. HD8



ROUND BRANCH
DUCT TAKE-OFF
N.T.S. HD29



② DUCT STRAP HANGER DETAIL



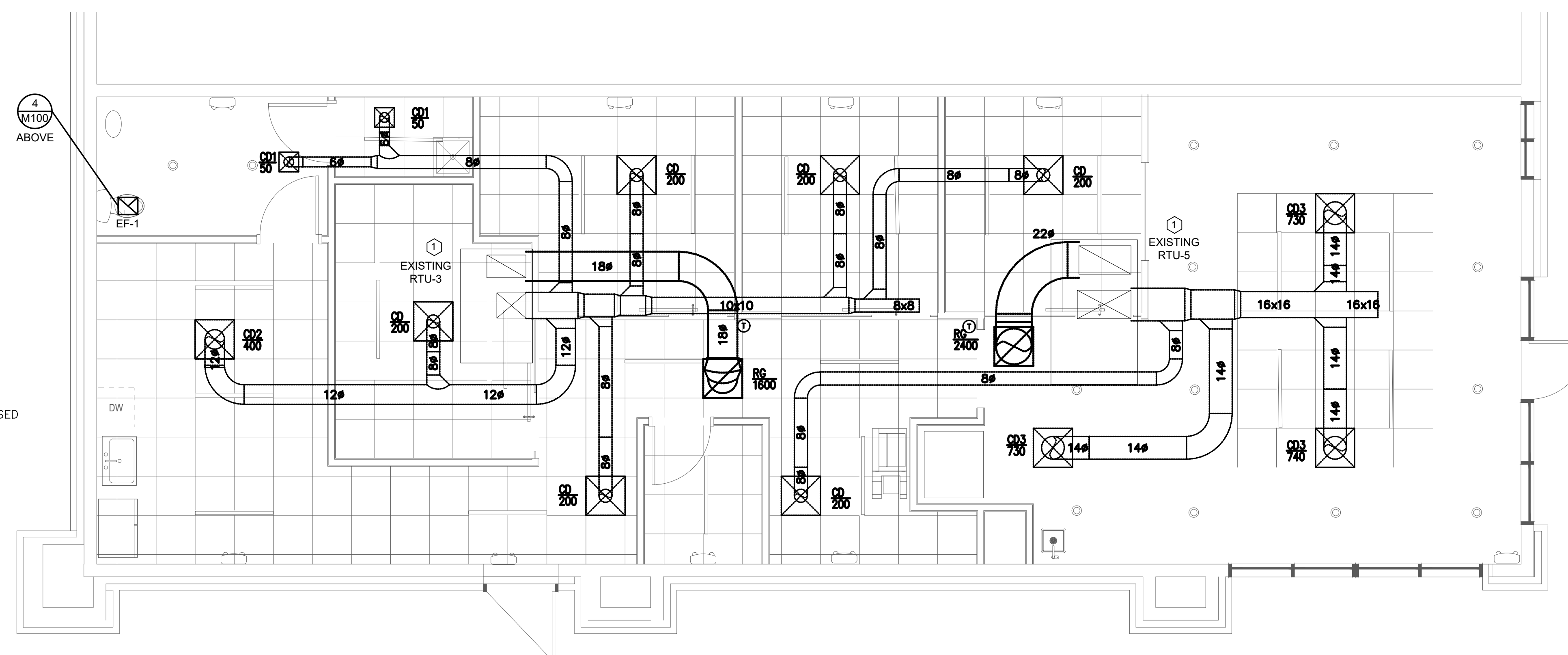
1 DIFFUSER DETAIL
N.T.S. HD15

EXISTING ROOFTOP UNIT SCHEDULE									
MARK	UNIT	COOLING COIL		FAN	HEAT	OUTDOOR AMBIENT	ELECTRICAL		ACCESSORIES NOTES
	MANUFACTURER MODEL	TOTAL (MBH)	OSA (CFM)	CFM ESP*	INPUT (MBH)	AIR TEMP LOW AMBIENT (F)	MOCP	VOLTS PHASE HERTZ	
RTU-3	TRANE YSC048E3	49	250	1600 0.5"	80	95 35	35	208 3 60	
RTU-5	TRANE YSC072E3	75	250	2400 0.5"	120	95 35	50	208 3 60	

AIR BALANCE SCHEDULE			
MARK	SUPPLY	RETURN	O.S.A.
RTU-3	1600 CFM	1350 CFM	250 CFM
RTU-5	2400 CFM	2150 CFM	250 CFM

DIFFUSER, GRILLE, AND REGISTER SCHEDULE			
CALLOUT	FACE SIZE (IN)	INLET SIZE (IN)	MODEL
CD	24x24	6Ø	TITUS - TMS
CD1	12x12	6Ø	TITUS - TMS
CD2	24x24	8Ø	TITUS - TMS
CD3	24x24	14Ø	TITUS - TMS
RG	24x48	22x38	TITUS - 50F

EXHAUST FAN/ROOF CAP SCHEDULE					
MARK	MANUFACTURER MODEL APPLICATION	RPM CFM ESP	V/PH/HZ SONES	CFM STATIC PRESSURE	ACCESSORIES NOTES
EF	COOK GC-128	750 79 0.125	115/1/60 3.4		A,C,F 1,2
RC	COOK 10 PR EXHAUST AIR			150 .125	G,H 3
ACCESSORIES: A. BACKDRAFT DAMPER. B. NOT USED C. ANODIZED ALUMINUM GRILLE. D. NOT USED E. NOT USED F. GEMINI ISOLATOR KIT - ISOLATORS. G. RCG 18 CURB -9.5 H. ALUM INSECT SCREEN.					
NOTES: 1. VERIFY APPROVED EQUALS WITH OWNER. 2. SWITCH FAN WITH LIGHT SWITCH. 3. COORDINATE COLOR WITH ARCHITECT.					



1 HVAC PLAN
SCALE: 1/4" = 1'-0"



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OR THE ARCHITECT SHALL BE A
CONDITION IN THE FIELD PRIOR
BID. ANY DISCREPANCIES OR
CONDITIONS INTERFERING WITH
THE PROGRESS OF THE WORK SHALL
BE REPORTED TO THE ARCHITECT
TO COMPLETE THE WORK AS
OUTLINED, SHALL BE BROUGHT TO
THE ATTENTION OF THE ARCHITECT
ANY COST SAVING OPTIONS OR
REUSE OF EXISTING EQUIPMENT
MATERIAL OR DEVICES SHALL BE
MATERIALS, METHODS, EQUIPMENT
AND THE ARCHITECT FOR REVIEW
ANY REQUESTED CHANGES DUE
TO THE NEED TO MAINTAIN THE
FAILURE TO VISIT THE SITE PRIOR
TO BID, SHALL NOT BE AUTHORIZED
OR COMPENSATED. COORDINATE
ALL CONFLICTS WITH THE
PRIOR TO START OF
CONSTRUCTION, LAYOUT ALL
EQUIPMENT AND MATERIALS
TO ENSURE PROPER SPACE AND
CLEARANCES ARE AVAILABLE.
CONTACT THE ARCHITECT IMMEDIATE
WITH ANY ISSUES.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL

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

OWNER

DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

ARCHITECT

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT:	MIKE KRES
LICENSE NO.	57



SEA

**ACADEMY BANK
BRANCH:
LEE'S SUMMIT**

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

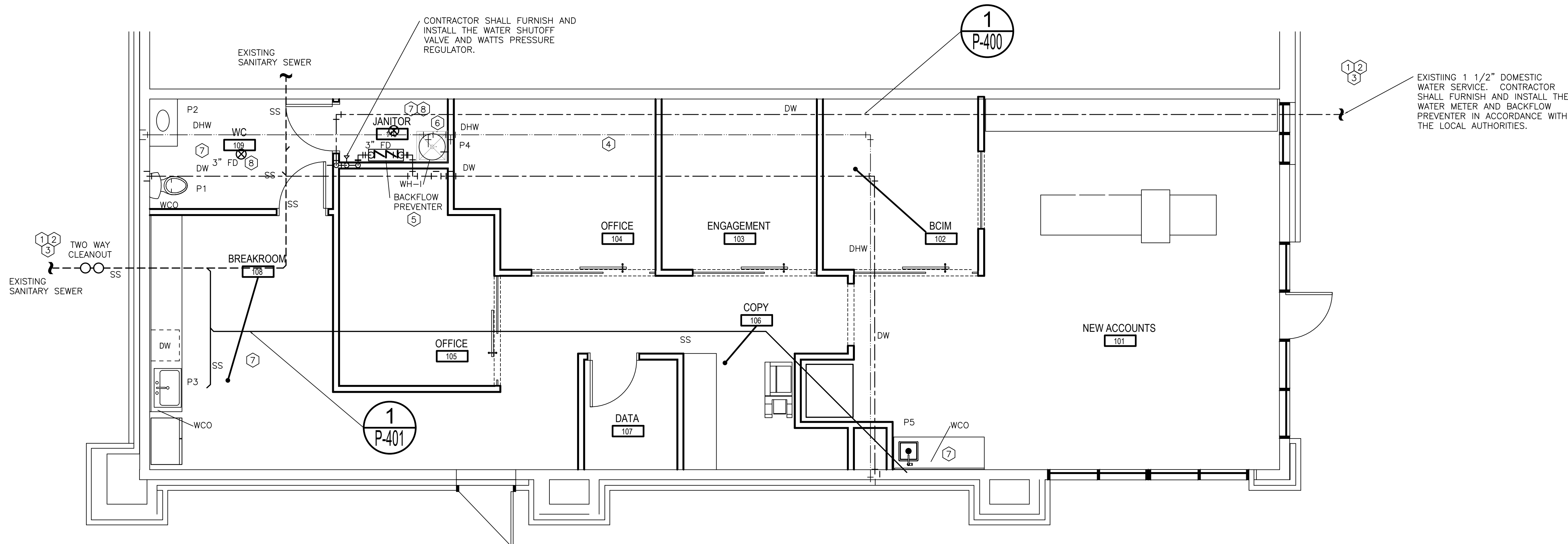
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M-100



1 WATER AND SEWER MAINS PLAN

Scale: 1/4" = 1'

MOUNTING HEIGHT SCHEDULE

FIXTURE	DIMENSION
TOILET SEATS (ADA)	17" - 19" AFF TOP OF SEAT MAX.
LAVATORIES (ADA)	34" AFF TO RIM. 29" MIN. TO BOTTOM OF APRON
DRINKING FOUNTAIN (ADA)	36" AFF TO SPOUT

WATER SUPPLY CALCULATION

SITE LOCATION: LEE SUMMIT, MISSOURI		FIXTURE UNIT CALCULATION:	
STATIC PRESSURE:	70 PSI (ASSUMED)	(1) WC	5 x 1 = 5
TOTAL F.U.:	14	(3) LAV	2 x 3 = 6
GPM: BUILDING USAGE	17	(1) MS	3 x 1 = 3
GPM: IRRIGATION USAGE	0		
TOTAL PROJECTED WATER USAGE	17 GPM		
WATER METER:	3/4"		
70 PSI PRESSURE IN MAIN			
- 5 PSI LOSS THROUGH 3/4" METER			
- 2 PSI LOSS THROUGH TAP			
- 20 PSI FIXTURE OPERATING PRESSURE			
- 5.2 PSI DROP FOR ELEVATION (12 FT.)			
- 15 PSI BACKFLOW PREVENTER			
25.8 PSI AVAILABLE PRESSURE			
PIPE LENGTH (TAP TO METER)	50 FT. (ESTIMATED)		
PIPE LENGTH (METER TO BUILDING)	30 FT. (ESTIMATED)		
PIPE LENGTH (TO FURTHEST FIXTURE)	145 FT.		
VERTICAL LENGTH	10 FT.		
EQUIVALENT LENGTH OF FITTINGS	55 FT.		
TOTAL DEVELOPED LENGTH	290 FT.		
MAX. ALLOWED LOSS (PER 100 FT. OF P40)	2.58 PSI		
AVAILABLE PRESSURE: 25.8 PSI			
100			
= 8.9 PSI/100 FT.			
WATER SERVICE FROM EXISTING METER SHALL BE 1 1/4"			
AS SHOWN ON DETAIL "2" SHEET P600.			

THERMAL EXPANSION TANK SCHEDULE

MARK	MANUFACTURER MODEL	TOTAL VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAXIMUM WORKING PRESSURE	FACTORY PRECHARGE (PSI)
ET-1	WATTS DETA-5	3.5	2.3	150 PSIG	40

KEYED DOMESTIC WATER NOTES

- CONTRACTOR SHALL CONFIRM EXACT LOCATION OF EXISTING SEWER AND WATER LINE AND EXISTING WATER METER WITH LOCAL UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF UTILITIES OUTSIDE THE BUILDING THAT WORK MAY INTERFERE WITH OR CROSS.
- CONTRACTOR SHALL SLEEVE NEW WATER LINE WHERE IT CROSSES THE SANITARY SEWER LINE. WATER LINE SHALL BE PLACED ABOVE THE SEWER LINE.
- HOT AND COLD WATER LINES RUN OVER HEAD SHALL BE INSULATED AND RUN ON THE WARM SIDE OF THE CEILING INSULATION.
- IF NON EXISTING, A BACKFLOW PREVENTER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE BACKFLOW PREVENTER SHALL BE A REDUCED PRESSURE ZONE TYPE, WATTS LF009M20T SERIES. IF THE BACKFLOW IS INSTALLED INDOORS MOUNT BACKFLOW PREVENTER 12 TO 30 INCHES AFF AND A MINIMUM OF 12 INCHES FROM ANY WALL. ROUTE DRAIN LINE TO THE MOP SINK AND TERMINATE ABOVE THE FLOOD RIM OF THE SINK. PROVIDE 2" AIR GAP. CONTRACTOR SHALL PROVIDE SHUT OFF VALVES ON EACH SIDE OF THE BACKFLOW PREVENTER.
- MOUNT WATER HEATER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ROUTE TEMPERATURE AND PRESSURE RELIEF DRAIN LINE DOWN IN WALL TO TERMINATE TO THE OUTSIDE AT 12" ABOVE GRADE.(OR TO MOP SINK PROVIDE 2" AIR GAP). HORIZONTAL DRAIN LINE SHALL BE SLOPED AT 1/4" PER 12" MINIMUM. CONFORM TO APPLICABLE CODES.
- SEE THE ARCHITECTURAL FLOOR PLAN AND ELEVATIONS ON THE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE AND DRAIN LOCATIONS.
- PROVIDE JAY R. SMITH "PRIME-EZE" WATER SAVING TRAP PRIMER PRODUCT NO. 2689 OR EQUAL BY OTHER MANUFACTURERS FOR FLOOR DRAINS.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MFG	CATALOG NUMBER	TRIM	RUNOUT SIZES (MINIMUM)				NOTES
					CW	HW	WASTE	VENT	
P1	ELONGATED FLUSH TANK TOILET	KOHLER	ELMBROOK K-45983	BREVIA QUICK RELEASE ELONGATED TOILET SEAT	1/2"	----	3"	2"	B,C,E,F
P2	WALL-MOUNT BATHROOM LAVATORY WITH SHROUD	KOHLER	K-1999-SS1	KOHLER K-13469 GEOMETRIC INSIGHT TOUCHLESS FAUCET WITH KOHLER K-13481 MULTI-OUTLET POWER SUPPLY. CONTRACTOR SHALL FURNISH AND INSTALL A WATTS LFMMV- MIXING VALVE TO SERVE THE FAUCETS (SET TO 110 F).	1/2"	1/2"	1 1/2"	1 1/2"	A,B,C,D,E,G
P3	UNDER COUNTER LAVATORY	BLANCO	518478	FAUCET: MOEN S62308	1/2"	1/2"	1 1/2"	1 1/2"	A,B,D,G
P4	SERVICE SINK	FIAT	FL7TG100	FIBERGLASS REINFORCED POLYESTER RESIN. COMES WITH MOUNTING LEGS, HARDWARE, P-TRAP, SUPPLY LINE, CHROME PLATED FAUCET, TAILNUT AND STOPPER.	3/4"	3/4"	3"	1 1/2"	A,B,
P5	UNDER COUNTER LAVATORY	BLANCO	518478	FAUCET: MOEN S62308	1/2"	1/2"	1 1/2"	1 1/2"	A,B,D,G

NOTES:
A. CHROME PLATED BRASS "P" TRAP.
B. FLEXIBLE SUPPLIES WITH KEYPED STOPS.
C. ACCEPTABLE MANUFACTURERS ARE AMERICAN STANDARD, ELJER, AND KOHLER.
D. HOT WATER LINE SHALL BE INSULATED BETWEEN WALL AND FIXTURE.
E. FIXTURES SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED.
F. HANDICAP WATER CLOSETS SHALL HAVE FLUSH HANDLE ON WIDE SIDE OF TOILET STALL. COORDINATE WITH GRAB-BARS.
G. CONTRACTOR SHALL FURNISH AND INSTALL WATTS LFMMV- MIXING VALVES TO SERVE THE FAUCETS (SET TO 110 F).

ELECTRIC WATER HEATER

MARK	MANUFACTURER MODEL	INPUT KW TANK SIZE	VOLTZ HERTZ PHASE	RECOVERY, GPH RISE DEGREES F.	NOTES
WH-1	AO SMITH DEL - 20	4.5 KW 20 GAL.	208 V 60 HZ 1 PH	18 100	1,2,3

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

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DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

ARCHITECT

GENERATOR STUDIO LLC
1615 BALTIMORE AVE.
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

ACADEMY BANK BRANCH: LEE'S SUMMIT

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

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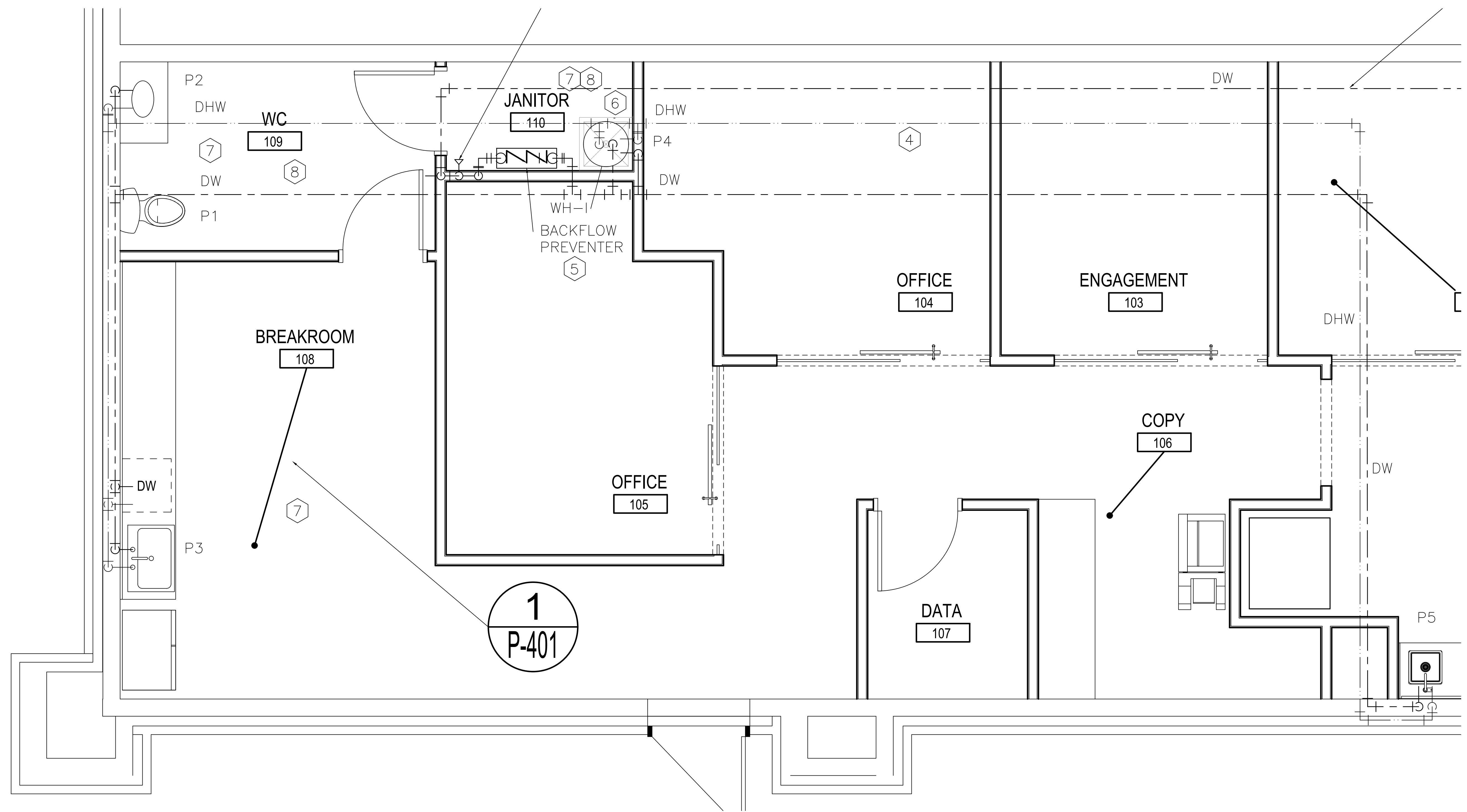
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ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL

PO BOX 427
ROGERS, AR 72756
PH 479-631-1772
FX 479-631-1854
ACEI@ADVENGINEERS.COM



1 ENLARGED DOMESTIC WATER PLAN
SCALE: 1/2" = 1'-0"

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

OWNER
DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

ARCHITECT
GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
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SOUTHWIND GROUP
1218 ENERGY DRIVE
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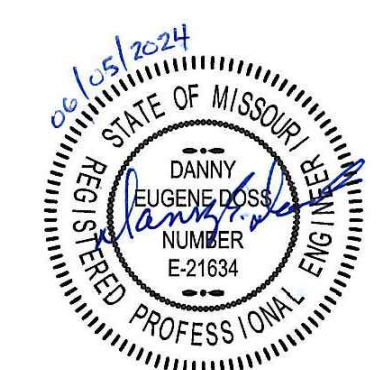
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DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

ARCHITECT
GENERATOR STUDIO LLC
1815 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
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SOUTHWIND GROUP
1216 ENERGY DRIVE
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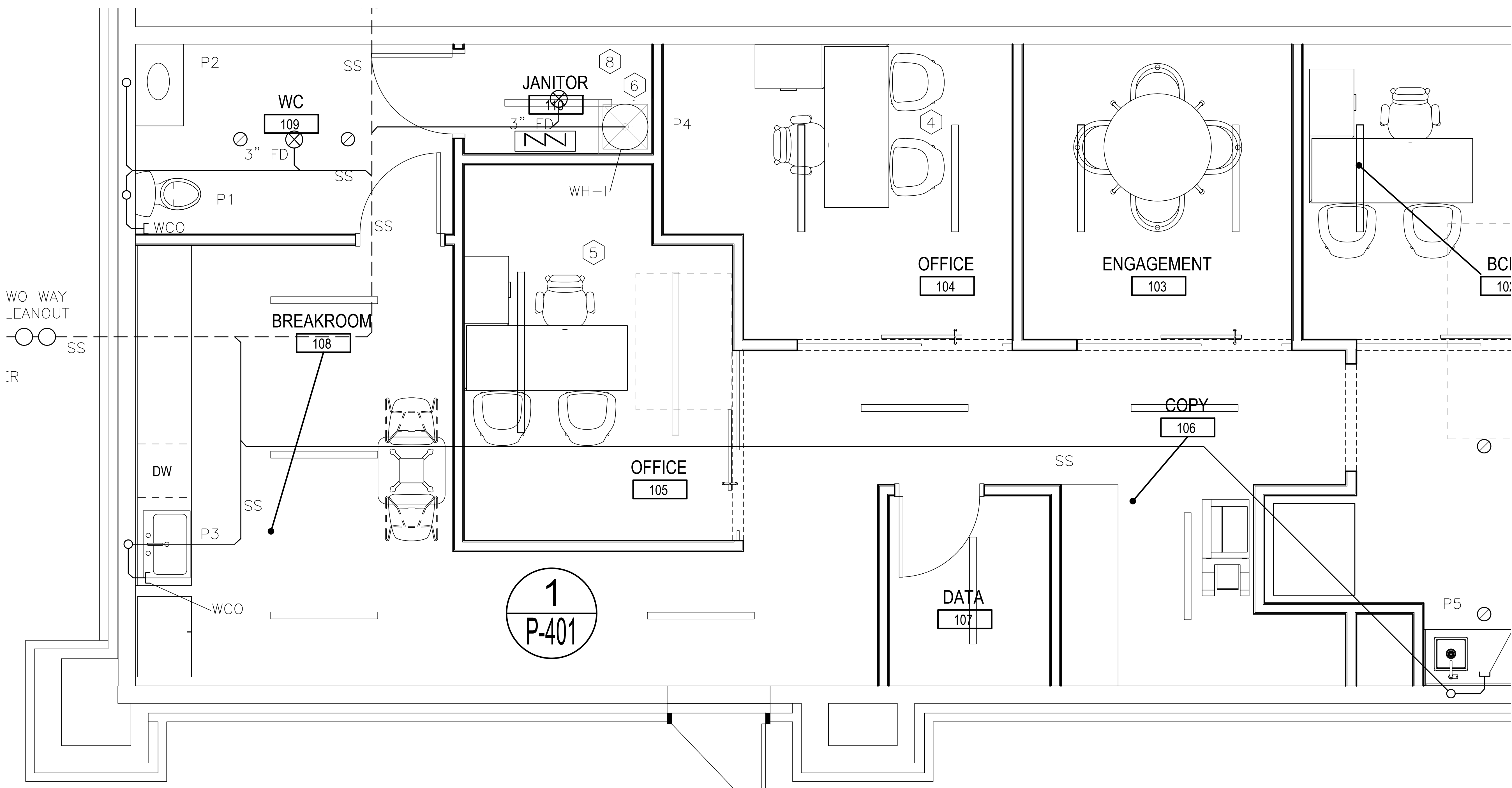
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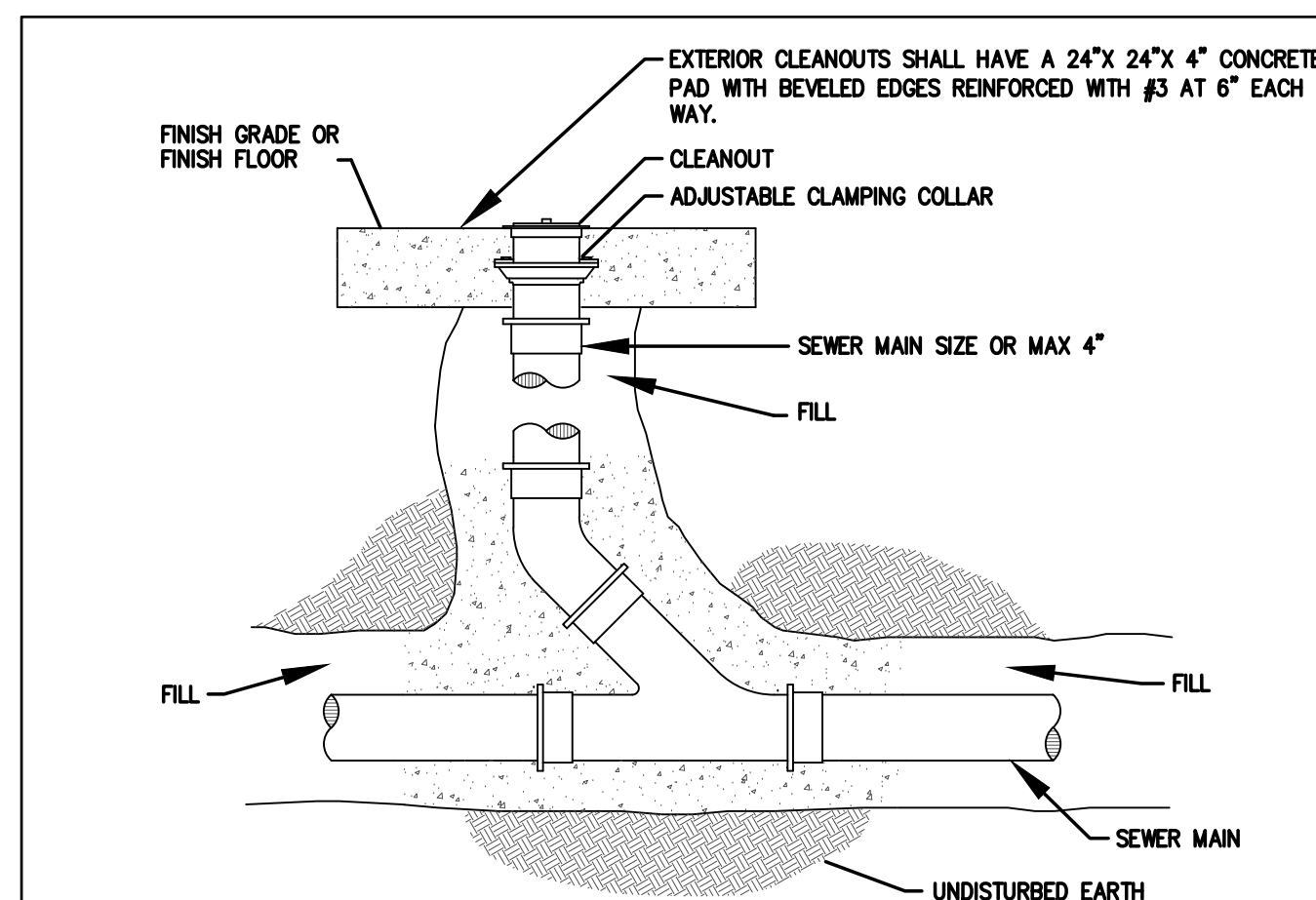
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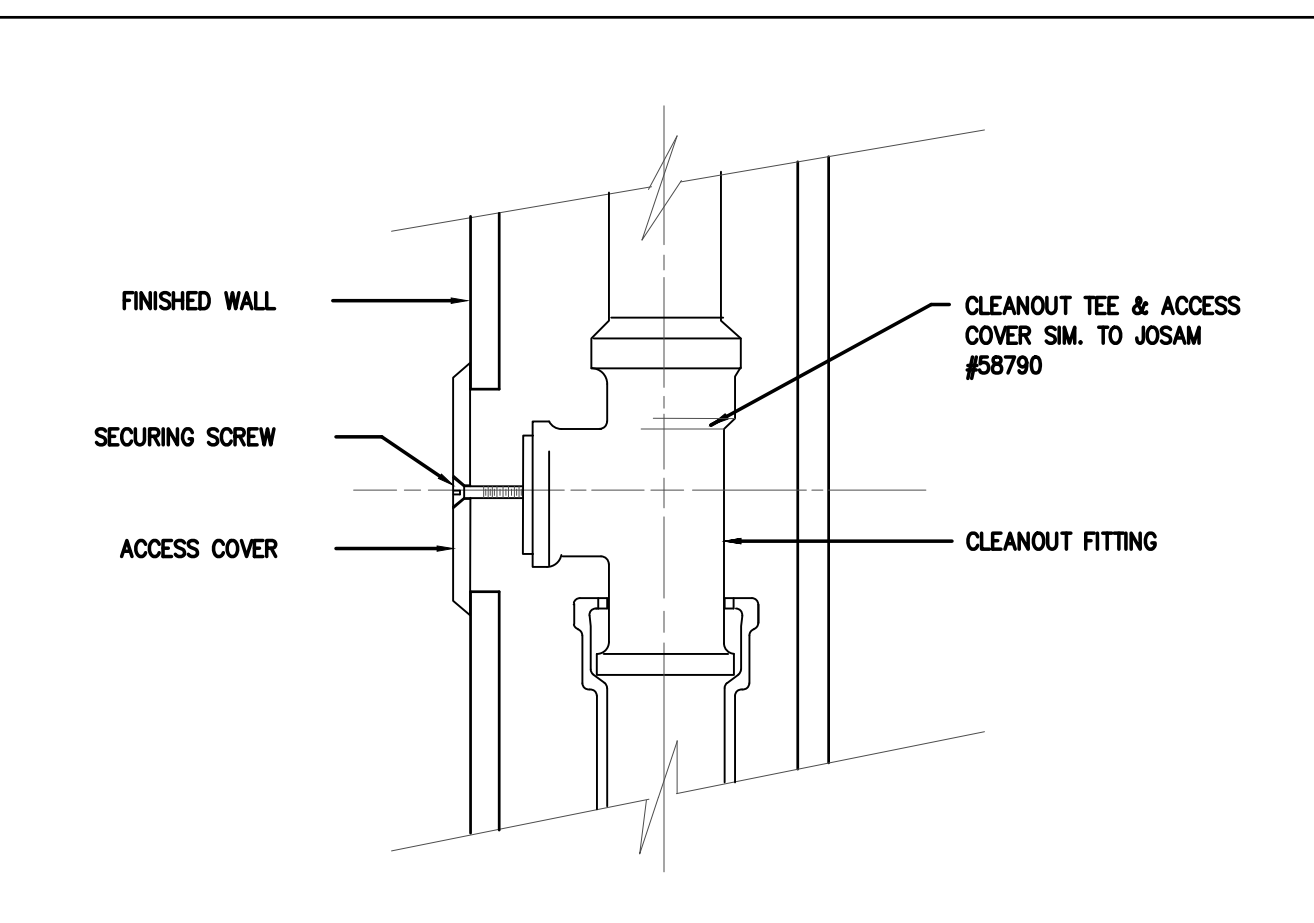
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ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
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1 ENLARGED SANITARY SEWER PLAN
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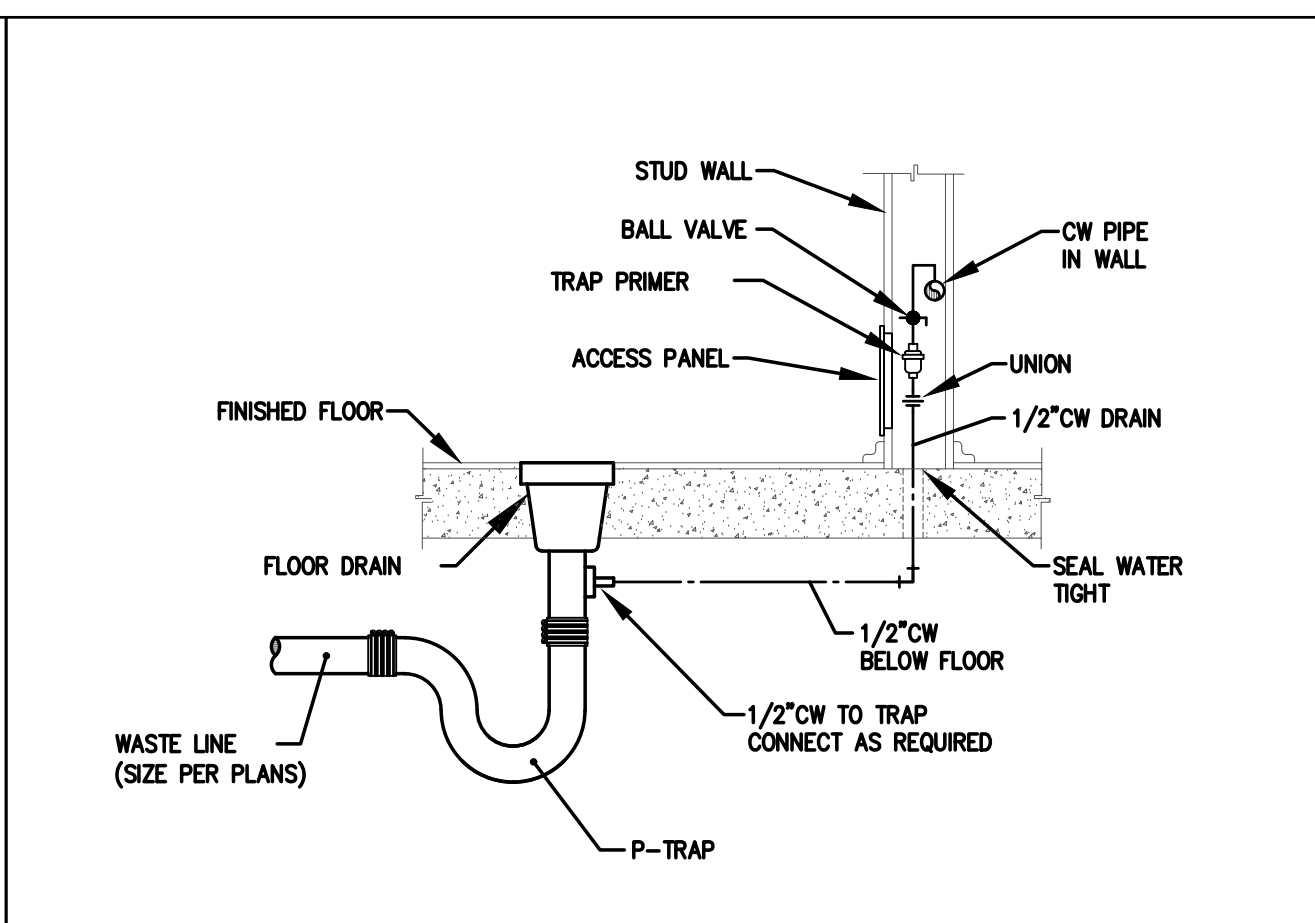




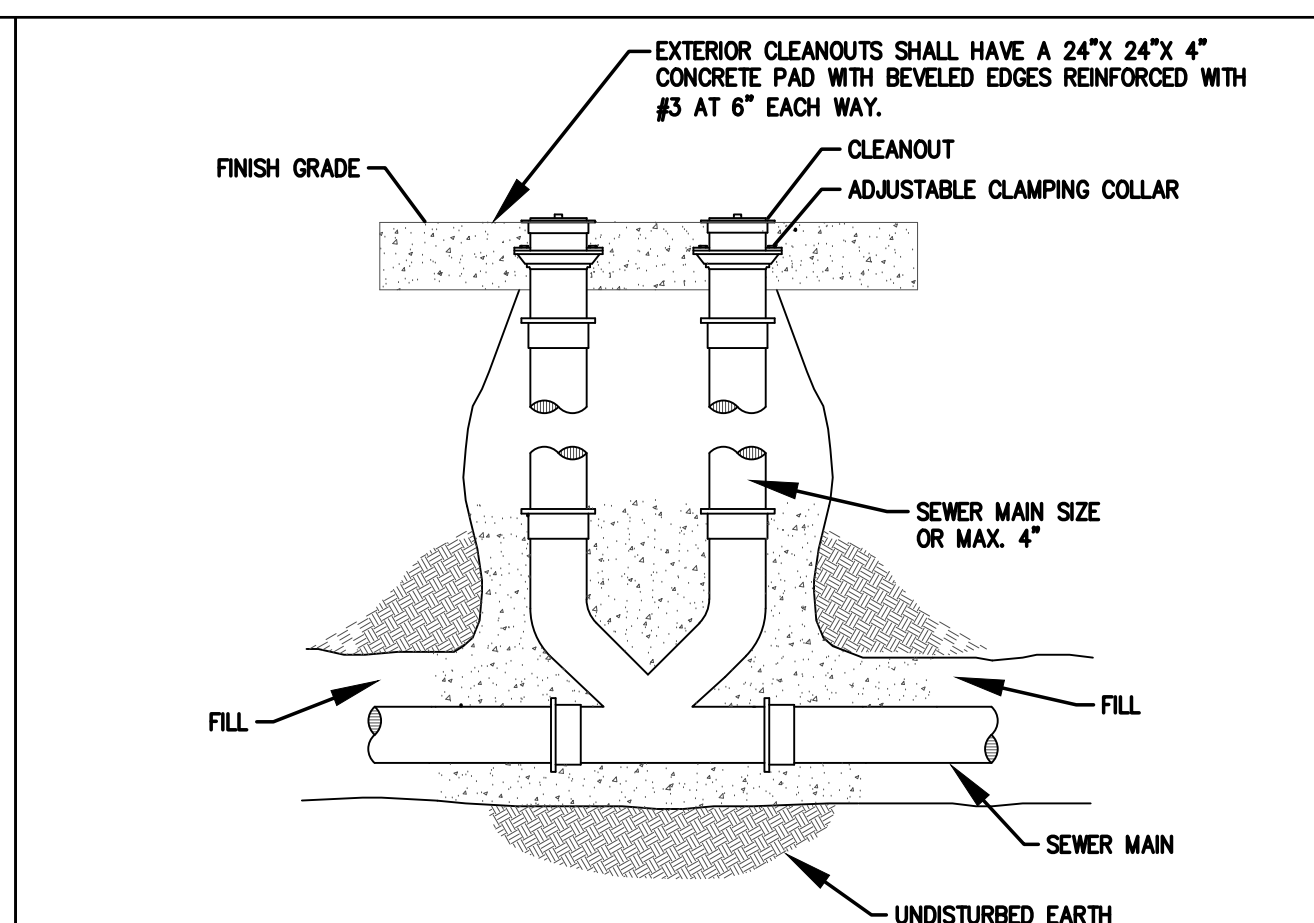
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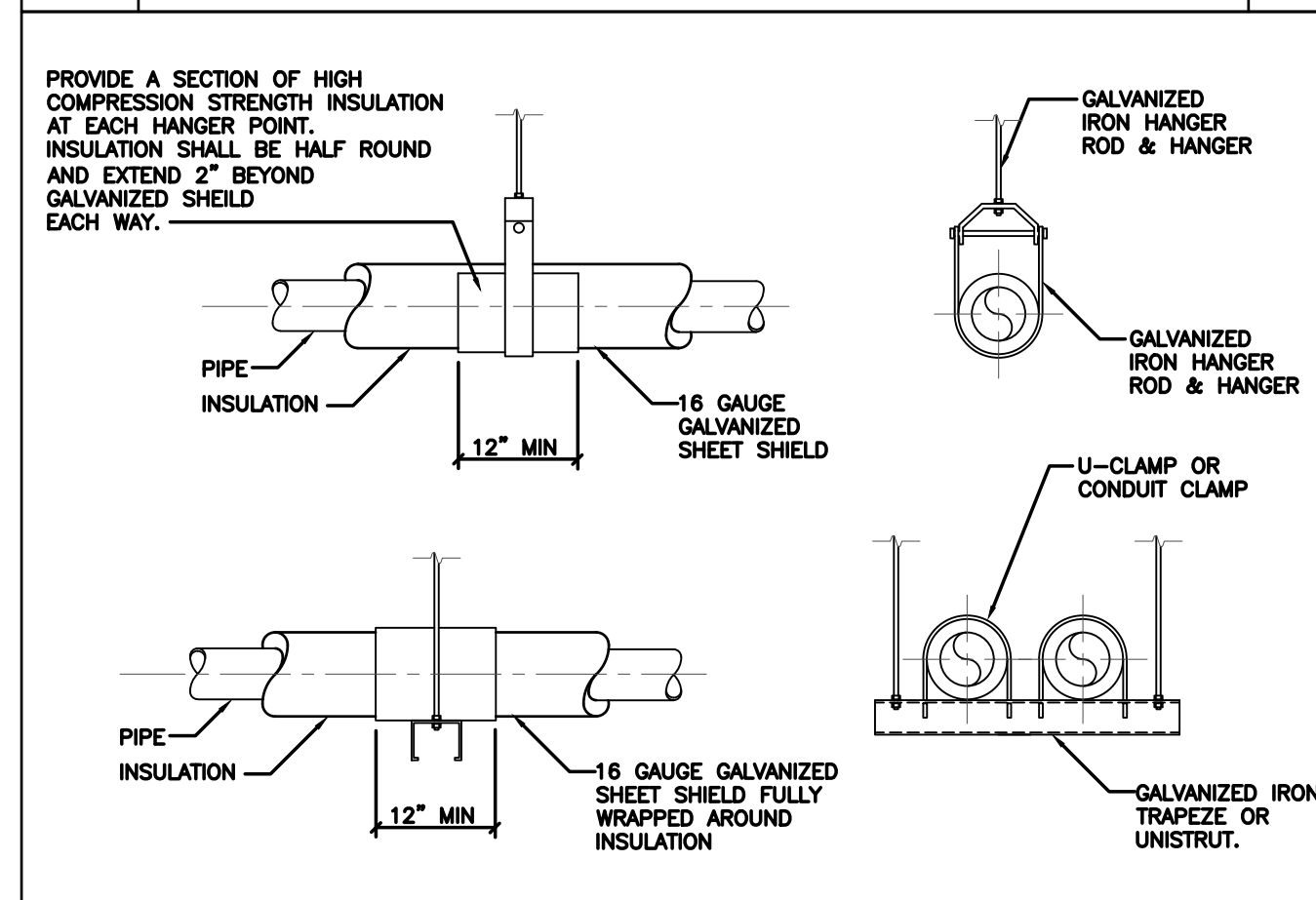
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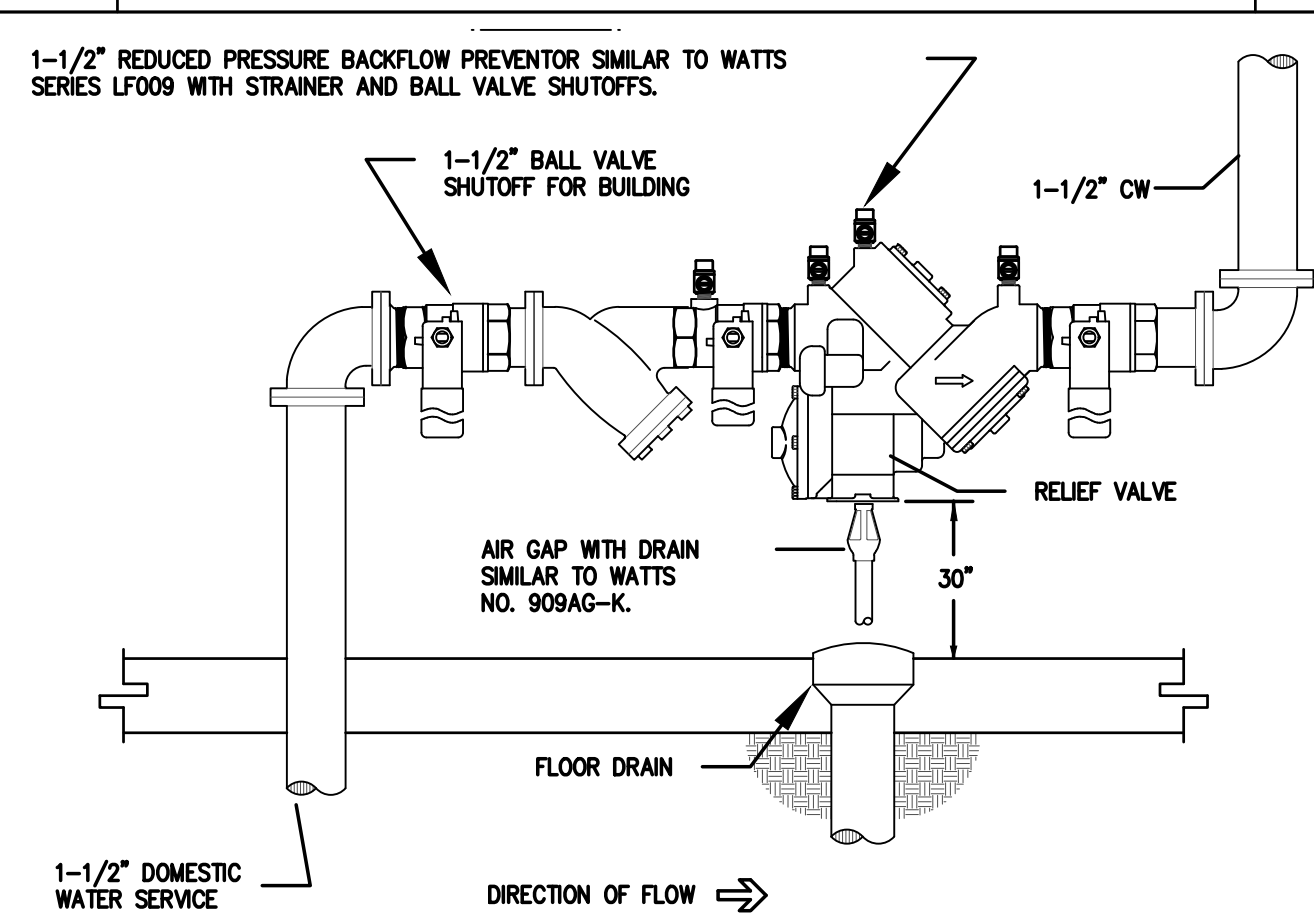
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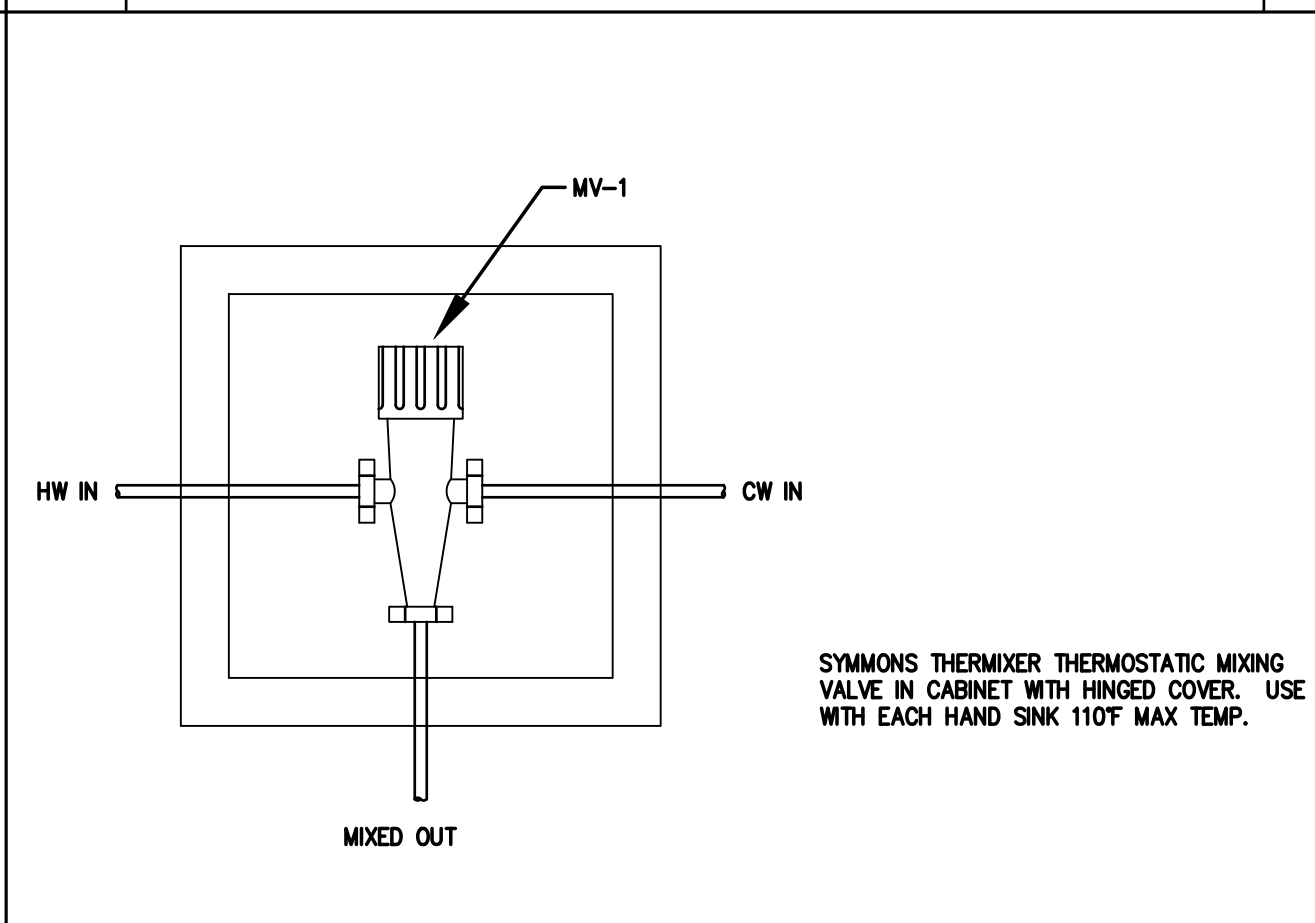
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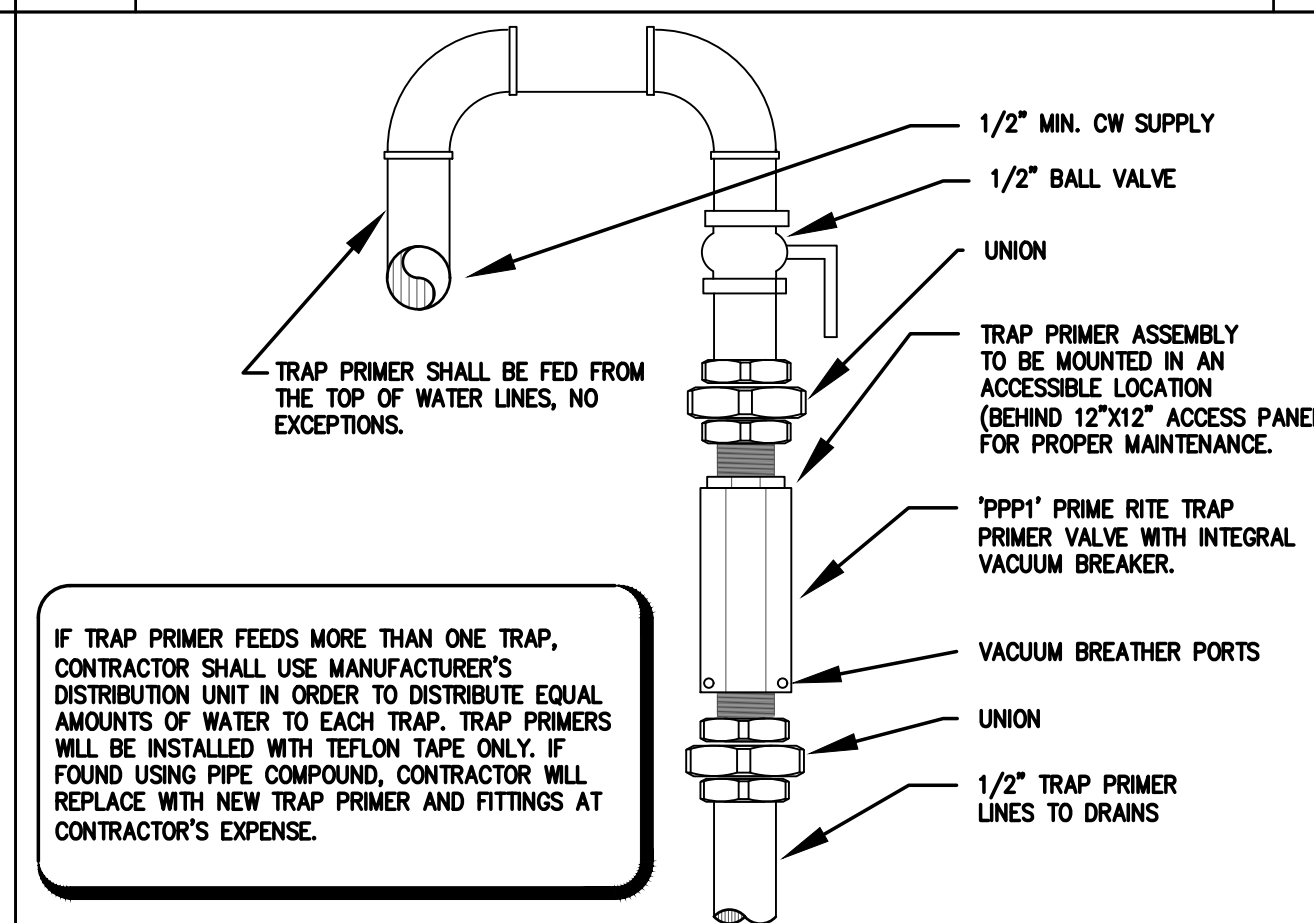
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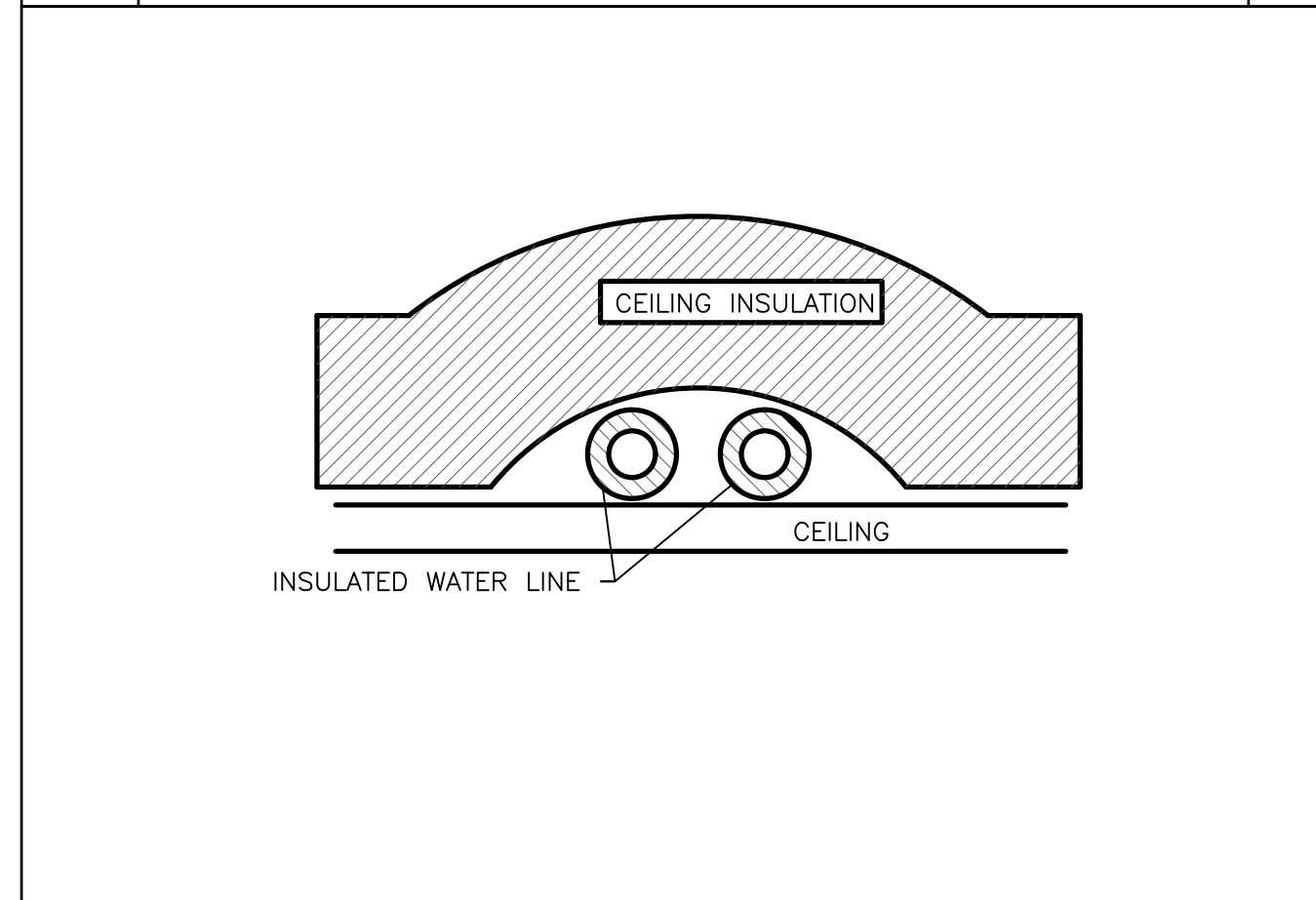
6	REDUCED PRESSURE BACKFLOW PREVENTOR	SCAL NTS
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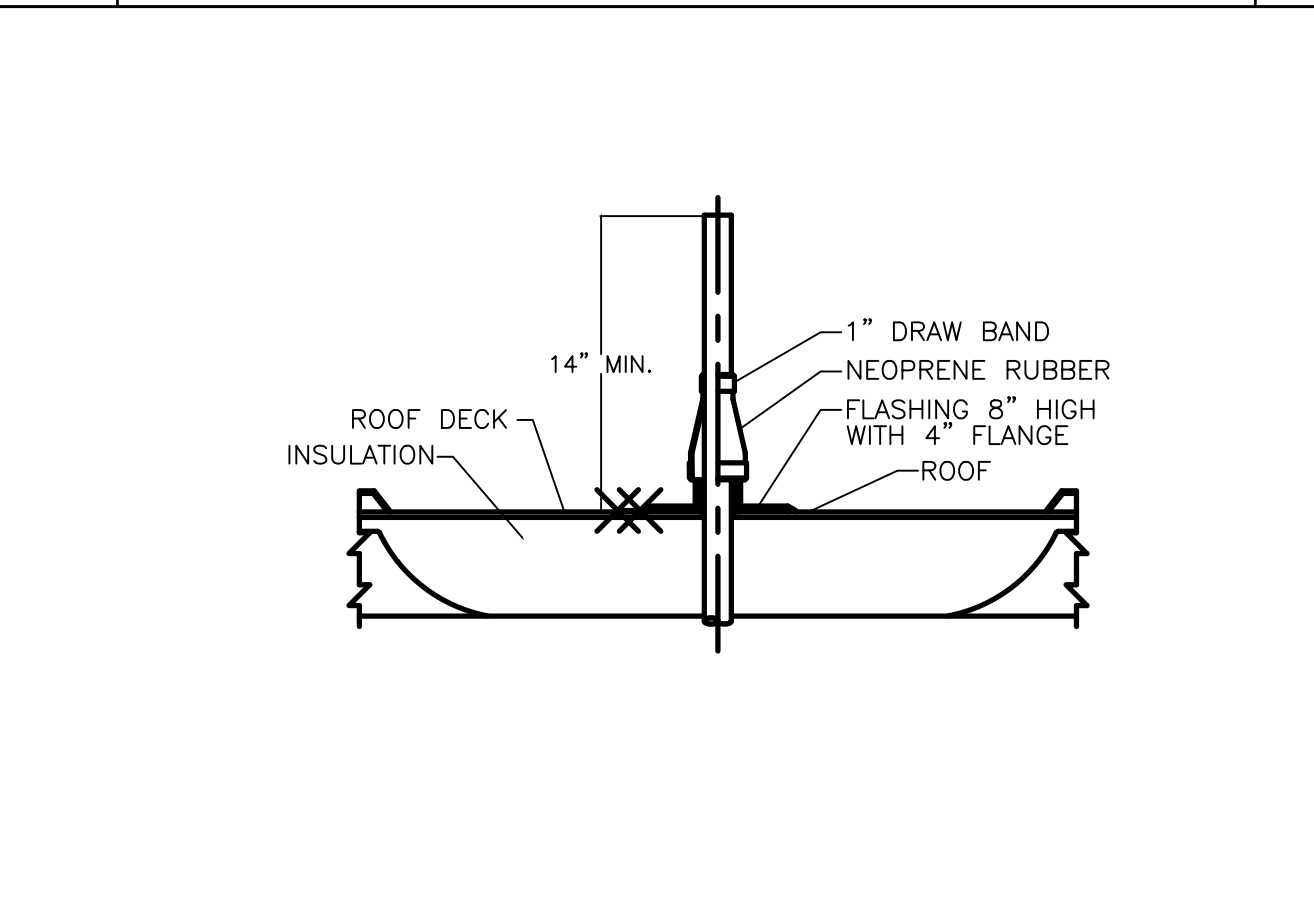
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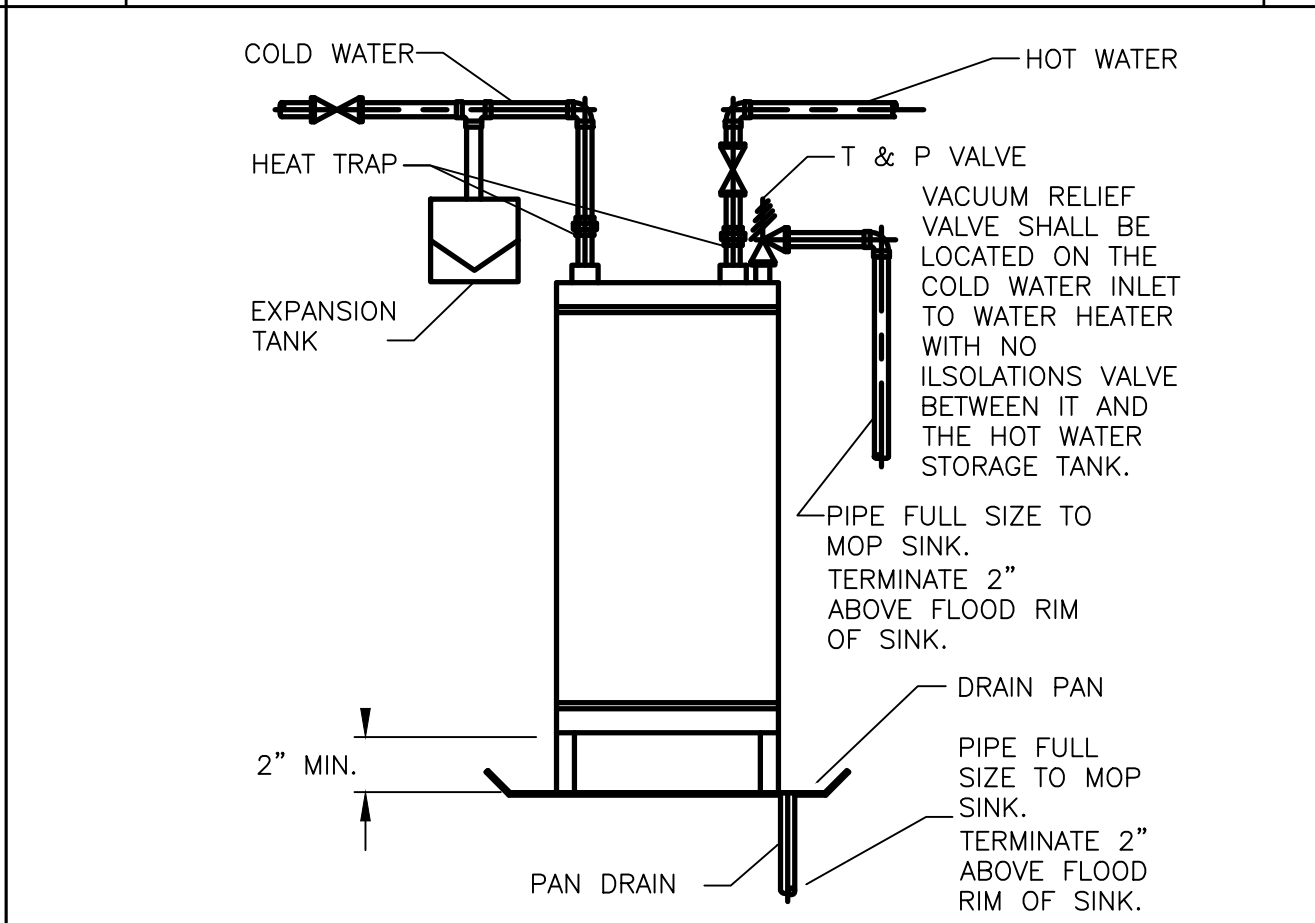
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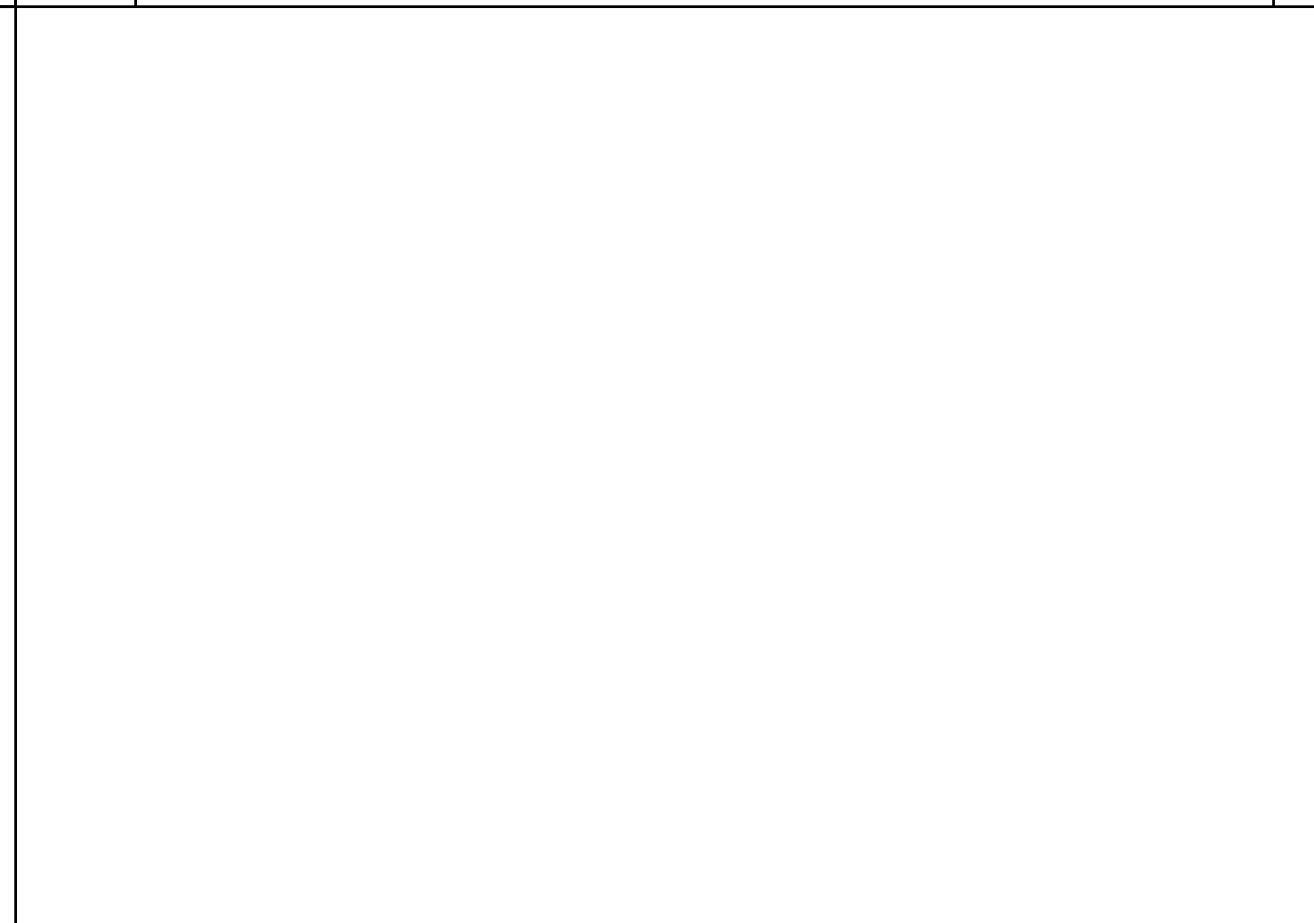
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		NTS



11	GAS WATER HEATER	SCALE
		NTS



PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS

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TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ASKING SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT. MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE ARCHITECT AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTOR'S NEGLIGENCE OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPLETED. COORDINATE ALL LOCAL SITES.

PRIOR TO START OF CONSTRUCTION, LAYOUT ALL EXISTING AND NEW UTILITIES TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE. CONTACT THE LOCAL UTILITY WITH ANY ISSUES.

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL

PO BOX 421
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1855
ACEI@ADVINCENGINEERS.COM

OWNER

DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

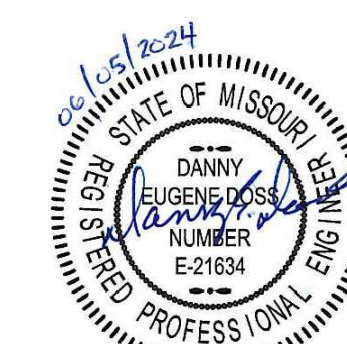
ARCHITECT

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR

SOUTHWIND GROUP
1218 EIMLEY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT:	MIKE KRESS
LICENSE NO.	571



SEA

ACADEMY BANK
BRANCH:
LEE'S SUMMIT

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 6408

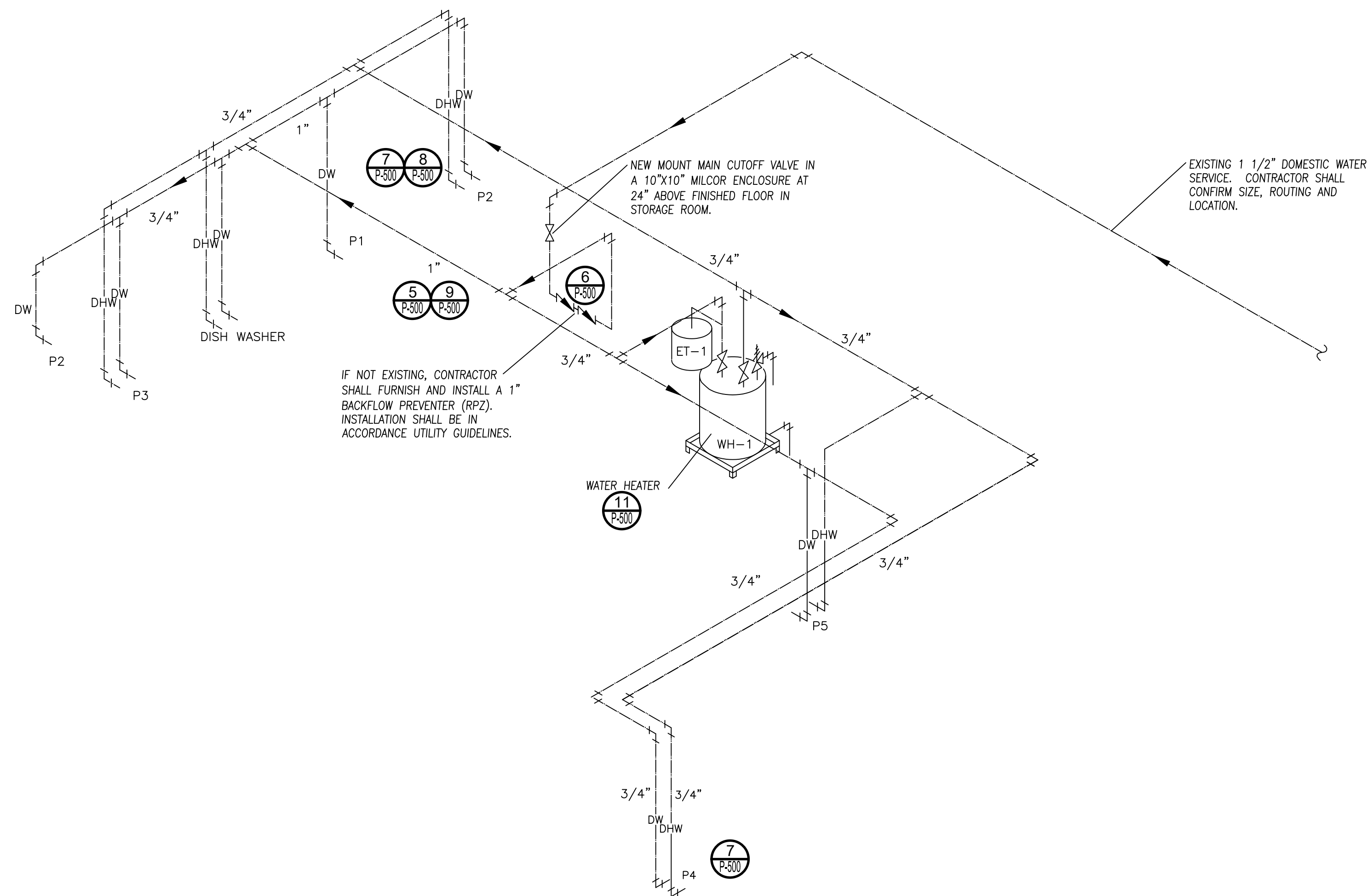
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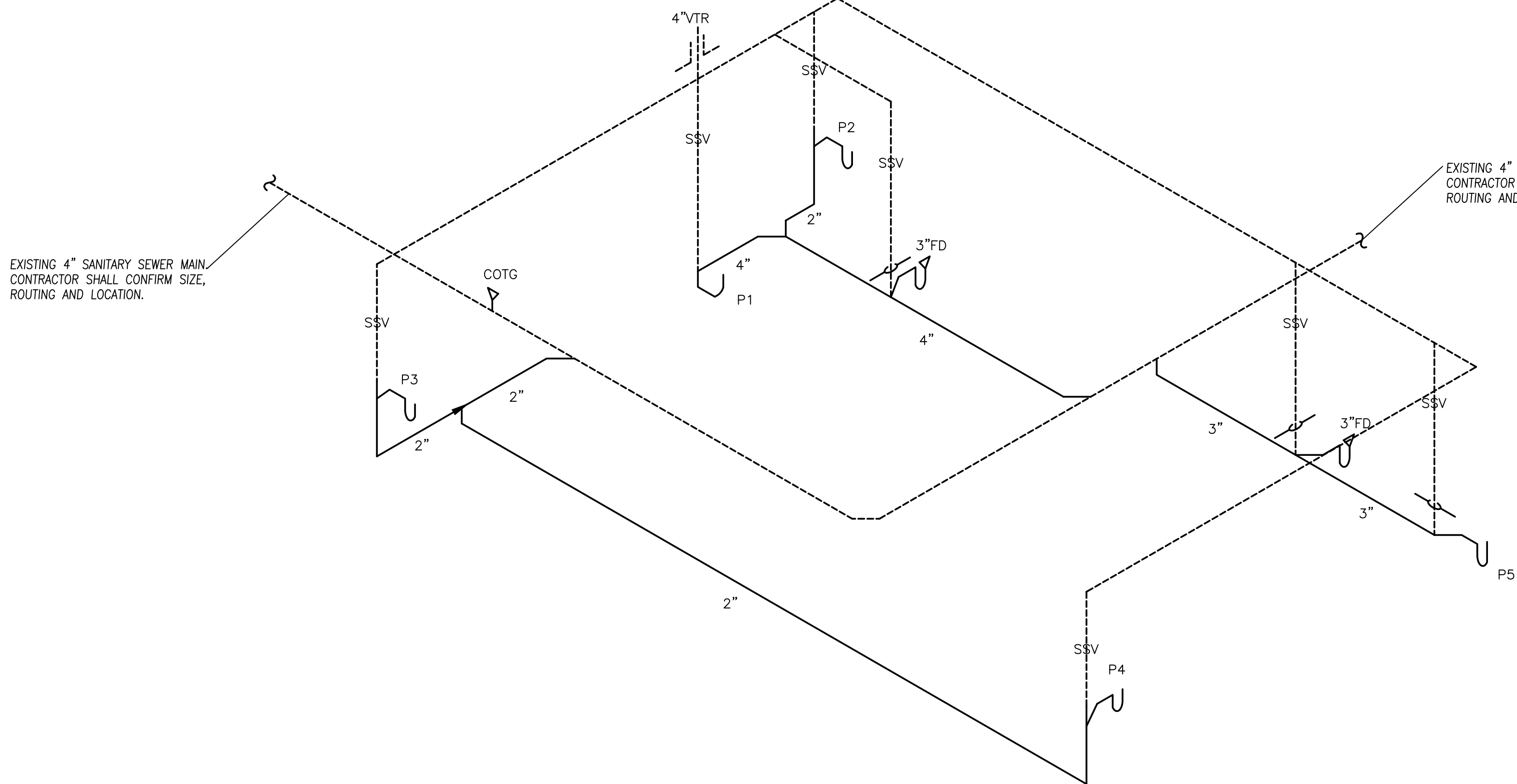
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PROJECT NO.	1601
DRAWN BY:	
CHK'D BY:	
SHEET TITLE	

P-500



1 DOMESTIC WATER RISER
N.T.S.



2 DOMESTIC WATER RISER
N.T.S.

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TO BID, SHALL NOT BE AUTHORIZED
OR COMPENSATED. COORDINATE
ALL LOWER SIZES AND LOCATIONS
PRIOR TO START OF
CONSTRUCTION. LAYOUT ALL
EQUIPMENT IN MECHANICAL ROOM
TO ENSURE PROPER SPACE AND
CLEARANCES ARE AVAILABLE.
CONTACT ARCHITECT IMMEDIATELY
WITH ANY ISSUES.

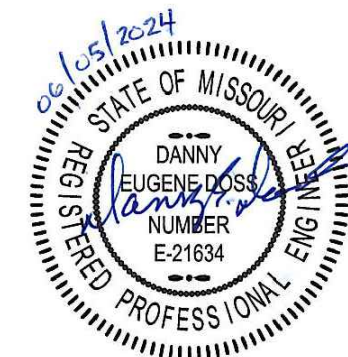
ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
ACEI@ADVENGINEERS.COM

OWNER
DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

ARCHITECT
GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR
SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

**ACADEMY BANK
BRANCH:
LEE'S SUMMIT**

**2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081**

PERMIT SET

ISSUE DATE: 05.30.24
REV DESCRIPTION DATE

PROJECT NO. 16014
DRAWN BY:
CHKD BY:
SHEET TITLE

P-600

SANITARY DRAIN, WASTE, AND VENT PIPING SYSTEM
SECTION 15411

PART 1 GENERAL

- 1.01 WORK INCLUDED:
- A. UNDERGROUND DRAIN AND VENT PIPING.
 - B. ABOVE GROUND DRAIN, WASTE, AND VENT PIPING.
 - C. SANITARY SEWER SERVICE PIPING.
 - D. CONDENSATION DRIP AND OVERFLOW PIPING.
 - E. CLEANOUTS.
 - F. FLOOR DRAINS.

- 1.02 RELATED WORK:
- A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.

1.03 SUBMITTALS:

- A. SUBMIT MANUFACTURER'S DATA SHEETS ON CLEAN OUTS AND FLOOR DRAINS.
- B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED FOR THE LISTED SERVICES AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPLICABLE DATA.
- C. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF INSTALLED PIPING.
- D. SUBMIT SHOP DRAWINGS ON MANHOLES INDICATING MANUFACTURED ITEMS, REINFORCING STEEL REQUIREMENTS, ETC.

PART 2 PRODUCTS

2.01 PIPING:

- A. UNDERGROUND DRAIN AND VENT PIPING INSIDE BUILDING AND TO FIVE FEET OUTSIDE BUILDING:
 - 1. SCHEDULE 40 PVC PIPE AND FITTINGS.
- B. ABOVE GROUND DRAIN AND VENT PIPING:
 - 1. SCHEDULE 40 PVC PIPE AND FITTINGS.
- C. WASTE ARMS FOR LAVATORIES, SINKS, AND URINALS:
 - 1. DWV COPPER PIPE WITH CAST BRASS ADAPTERS AND WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 50-50 SOLDER.
 - 2. SCHEDULE 40 GALVANIZED STEEL PIPE WITH SCREWED FITTINGS (OPTIONAL).
- D. UNDERGROUND SEWER PIPING OUTSIDE BUILDING TO SEWER MAIN:
 - 1. SCHEDULE 40 PVC PIPE AND FITTINGS.
- E. CONDENSATION DRIP AND OVERFLOW PIPING: SOLVENT-CEMENT WELD.

2.02 CLEAN OUTS:

- A. PROVIDE CLEAN OUTS COMPATIBLE WITH TYPE OF DRAIN PIPING TO WHICH IT IS CONNECTED. PROVIDE COVERS COMPATIBLE WITH TYPE OF FLOOR OR WALL FINISH WITH CONSIDERATION GIVEN TO TRAFFIC CONDITIONS. MAKE CLEAN OUTS SAME SIZE AS PIPE THROUGH 4 INCHES.
- B. FLOOR CLEAN OUT (FCO): CAST IRON WITH TAPERED BRASS PLUG, THREADED ADJUSTABLE HOUSING, AND ROUND NICKEL BRONZE SCORATED TOP.
- C. CLEAN OUT TO GRADE (COTG): SAME AS FCO EXCEPT WITH HEAVY DUTY CAST IRON SCORATED TOP. SET COTG IN 10-INCH DIAMETER CONCRETE BASE 4-INCHS THICK AND FLUSH WITH FINISHED GRADE.

2.03 FLOOR DRAINS:

- A. STANDARD FLOOR DRAIN (FD): LACQUERED CAST IRON BODY WITH FLANGE, CLAMPING COLLAR WITH SEEPAGE OPENINGS, AND ADJUSTABLE SQUARE SATIN BRONZE STRAINER. FLOOR DRAINS ARE 2 INCHES UNLESS SHOWN OTHERWISE.

PART 3 EXECUTION

3.01 PREPARATION:

- A. SWAB PIPES AND CLEAN JOINTS AND FITTINGS INSIDE AND OUT PRIOR TO MAKING CONNECTIONS. USE PROPER LUBRICANTS ON COMPRESSION GASKETS.

3.02 INSTALLATION:

- A. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SLOPE HORIZONTAL DRAIN AND VENT PIPING IN ACCORDANCE WITH THE FOLLOWING:

SIZE	MINIMUM SLOPE
3" AND SMALLER	1/4" PER FOOT
4" AND LARGER	1/8" PER FOOT

- B. BURY ALL UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED GRADE.

- C. MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL AND DO NOT OVER TIGHTEN.

- D. ARRANGE WITH LOCAL UTILITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.

3.03 TESTING:

- A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:
 - 1. WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.
 - 2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)

END OF SECTION

DOMESTIC WATER PIPING SYSTEM
SECTION 15412

PART 1 GENERAL

- 1.01 WORK INCLUDED:
- A. WATER SERVICE PIPING.
 - B. HOT AND COLD WATER PIPING.
 - C. TEMPERATURE AND PRESSURE (T & P) RELIEF PIPING.
 - D. VALVES.
 - E. SHOCK SUPPRESSORS.

- 1.02 RELATED WORK:
- A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.
 - B. SECTION 15005 MECHANICAL INSULATION.

1.03 SUBMITTALS:

- A. SUBMIT MANUFACTURER'S DATA SHEETS ON VALVES AND SHOCK SUPPRESSORS.
- B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPLICABLE DATA.
- C. SUBMIT SHOP DRAWINGS OF SHOCK SUPPRESSORS LAYOUT PROPOSED.
- D. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF INSTALLED PIPING.
- E. SUBMIT CERTIFICATE OF COMPLETION OF CHLORINATION.

PART 2 PRODUCTS

2.01 PIPING:

- A. FOR UNDERGROUND WATER SERVICE PIPING OUTSIDE BUILDING TO WATER METER:
 - 1. ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 95-5 SOLDER.
 - 2. THICKNESS CLASS 50, CEMENT LINED, SEAL COATED, HUB AND SPIGOT TYPE DUCTILE IRON WITH JOINTS MADE WITH RUBBER COMPRESSION RINGS MANUFACTURED FOR THE PURPOSE. (OPTIONAL)
- B. FOR UNDERGROUND WATER PIPING INSIDE BUILDING AND TO FIVE FEET OUTSIDE BUILDING:
 - 1. 1" AND SMALLER - ASTM B88 TYPE AS INDICATED ON DRAWINGS SOFT COPPER TUBING WITH NO FITTINGS OR JOINTS PERMITTED UNDER SLAB. MAKE CONNECTIONS ABOVE SLAB USING WROUGHT COPPER FITTINGS AND 95-5 SOLDER.
 - 2. 1-1/4" AND LARGER - ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MAKE WITH SIL-FOS SOLDER (15% SILVER CONTENT).
- C. FOR EXPOSED PIPING IN TOILET ROOMS AND OTHER FINISHED AREAS, USE CHROME PLATED BRASS PIPE WITH THREADED FITTINGS.
- D. FOR ABOVE GROUND WATER AND T & P RELIEF PIPING INSIDE BUILDING, USE ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 95-5 SOLDER.
- E. SOLDER CONTAINING LEAD SHALL NOT BE USED ON POTABLE WATER SYSTEMS.

2.02 VALVES:

- A. PROVIDE VALVES WITH SUITABLE MATERIALS INCLUDING DISC, PLUGS, BALLS, GASKETS, LININGS, AND LUBRICANTS FOR THE SERVICE, TEMPERATURE, AND PRESSURE TO WHICH THEY WILL BE EXPOSED. FURNISH WITH SOLDER OR SCREWED CONNECTIONS.
- B. GATE VALVES: BRONZE, NON-RISING STEM, INSIDE CREW, DOUBLE WEDGE.
- C. GLOBE OR ANGLE VALVES: BRONZE, RISING STEM, INSIDE CREW, RENEWABLE COMPOSITION DISC.
- D. CHECK VALVES: BRONZE WITH SWING DISC.
- E. FREEZE PROOF HOSE BIBBS (FPHB): 3/4" ANTI-SIPHON NON-FREEZE TYPE WITH BRONZE CASING AND BOX WITH LOOSE KEY HANDLE. FURNISH FOR PROPER WALL THICKNESS.

PART 3 EXECUTION

3.01 PREPARATION:

- A. REAM PIPES AND TUBING AND THOROUGHLY CLEAN INSIDE AND OUTSIDE PRIOR TO CONNECTING.

3.02 INSTALLATION:

- A. SLOPE WATER PIPING MINIMUM OF 1 INCH IN 40 FEET AND ARRANGE TO DRAIN AT ALL LOW POINTS.
- B. BURY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM OF 3 FEET BELOW FINISHED GRADE.
- C. USE ELECTRICALLY INSULATING TYPE CONNECTIONS FOR JOINING DISSIMILAR METALS SUCH AS BRASS VALVES OR ADAPTERS OR INSULATING COUPLINGS.
- D. USE PROPER ADAPTERS FOR SCREWED VALVES TO COPPER PIPING.
- E. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED PIPE.
- F. CONNECT TO T & P RELIEF VALVE AND EXTEND FULL SIZE TO APPROVED DISCHARGE POINT.
- G. WHERE PIPE PASSES THROUGH FINISHED WALL, CEILING, OR FLOOR, PROVIDE CHROME PLATED ESCUTCHEON PLATE SECURELY ANCHORED TO PIPE. INSTALL PIPE SO THAT NO THREADS SHOW.
- H. ARRANGE WITH LOCAL UTILITY FOR WATER TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH WATER SERVICES.

3.02 INSTALLATION CONTINUED:

- I. INSTALL GATE VALVE TO ISOLATE OR SHUT-OFF EQUIPMENT OR BRANCH LINES. USE GLOBE VALVES WHERE ADJUSTABLE FLOW OR THROTTLING IS REQUIRED.
- J. INSTALL HOSE BIBBS CENTERLINE, 2 FEET ABOVE FLOOR OR GRADE. INSTALL GARBAGE CAN WASH VALVE 4 FEET ABOVE FLOOR OR DRAIN.
- K. PROVIDE PRV TO LIMIT MAXIMUM STATIC PRESSURE AT PLUMBING FIXTURES TO 70 PSIG. SUBMIT PRESSURE DATA TAKEN AT DIFFERENT TIMES AS APPROVED OR INSTALL PRV AT SERVICE CONNECTION OR IN BUILDING. PROVIDE PRV AT OTHER SEPARATE FIXTURES WHEN SHOWN ON DRAWINGS.
- L. MAKE PROVISIONS NECESSARY TO PREVENT CROSS CONNECTIONS WITH SANITARY DRAINAGE SYSTEM OR OTHER NON-POTABLE SOURCES. PROVIDE REDUCED PRESSURE TYPE BACKFLOW PREVENTERS WHEN REQUIRED.

3.03 TESTING:

- A. BEFORE CONCEALING OR INSULATING, TEST DOMESTIC WATER PIPING AND PROVE LEAK FREE. SUBJECT SYSTEM TO MINIMUM HYDROSTATIC PRESSURE OF 100 PSIG AND HOLD FOR ONE HOUR.

3.04 STERILIZATION:

- A. AFTER TESTS HAVE BEEN SUCCESSFULLY COMPLETED, THOROUGHLY FLUSH AND STERILIZE THE COMPLETED DOMESTIC WATER SYSTEM IN ACCORDANCE WITH AWWA C601.
- B. FLUSH ENTIRE SYSTEM AFTER STERILIZATION UNTIL RESIDUAL CHLORINE CONTENT IS NO GREATER THAN 0.2 PARTS PER MILLION.
- C. CHLORINATE ONLY WHEN THE BUILDING IS UNOCCUPIED.

END OF SECTION

NATURAL GAS PIPING SYSTEM
SECTION 15413

PART 1 GENERAL

- 1.01 WORK INCLUDED:
- A. UNDERGROUND NATURAL GAS SERVICE PIPING.
 - B. INTERIOR NATURAL GAS PIPING.
 - C. EXTERIOR EXPOSED NATURAL GAS PIPING.
 - D. CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT.
 - E. COCKS.

1.02 RELATED WORK:

- A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.

1.03 SUBMITTALS:

- A. SUBMIT MANUFACTURER'S DATA SHEETS ON GAS COCKS.
- B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND THERE APPLICABLE DATA.
- C. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF PIPING AS INSTALLED.

1.04 QUALITY ASSURANCE:

- A. CONFORM TO ASME CODE AND APPLICABLE STATE REGULATIONS WITH ALL WELDING MATERIALS AND WELDING OPERATOR'S QUALIFICATIONS. USE ONLY OPERATORS FULLY QUALIFIED AND CERTIFIED UNDER THE REQUIREMENTS OF THE ARKANSAS GAS PIPELINE CODE (APGC).

PART 2 PRODUCTS

2.01 PIPING:

- A. UNDERGROUND PIPING:
 - 1. PLASTIC PIPE OR TUBING AND FITTINGS CONFORMING WITH ASTM D 2513. REINFORCED EPOXY RESIN GAS PIPE AND FITTINGS CONFORMING TO ASTM D 2517 FOR OUTSIDE UNDERGROUND USE ONLY. PLASTIC SHALL BE USED ONLY BELOW GRADE. PLASTIC PIPE AND FITTINGS SHALL BE JOINED BY APPROVED METHODS AND MANUFACTURING INSTRUCTIONS. MILL COAT PIPE WITH HIGH DENSITY POLYETHYLENE OVER ADHESIVE UNDERCOATING.
 - 2. WRAP FIELD JOINTS AND FITTINGS WITH REPUBLIC "X-TRU-TAPE" OR EQUAL PER MANUFACTURER'S RECOMMENDATIONS.
 - 3.

B. ABOVE GROUND PIPING:

- 1. SCHEDULE 40 BLACK STEEL OR GALVANIZED STEEL WITH MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTTWELD FITTINGS.
- 2. STAINLESS STEEL TUBING, FITTINGS, AND ACCESSORIES SHALL BE TESTED, LISTED, AND INSTALLED PER ANSI/AGA LC-1, MPFA AND FACTORY MUTUAL. SHALL HAVE POLYETHYLENE JACKET. SHALL MEET STATE AND LOCAL APPROVALS. SHALL BE EQUAL TO TRACE PIPE BY OMEGA FLEX.

C. CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT:

- 1. PVC COOLED SPIRAL FLEXIBLE BRASS CONNECTOR WITH BRASS FLARED GAS TUBING FITTINGS.

D. CATHODIC PROTECTION - PACKAGED MAGNESIUM ANODES.

E. WELDING ROD - SAME MATERIAL AS PIPE.

2.02 GAS COCKS:

- A. IRON BODY WITH BRASS PLUG AND WASHER WITH SCREWED OR FLANGED ENDS RATED FOR 125 LB. WOG.

PART 3 EXECUTION:

3.01 PREPARATION:

- A. REAM PIPES AND TUBING PRIOR TO CONNECTION.
- B. REMOVE WELDING SLAG FROM WELDED CONNECTIONS.

3.02 INSTALLATION:

- A. SLOPE NATURAL GAS PIPING MINIMUM OF 1 INCH IN 40 FEET AND PROVIDE MINIMUM 12 INCH DEEP DRIP POCKET SAME SIZE AS PIPE, AT ALL LOW POINTS AND AT FINAL CONNECTIONS TO EQUIPMENT. PROVIDE MALLEABLE IRON REMOVABLE SCREW-ON CAP ON BOTTOM OF DRIP POCKET.
- B. BUY UNDERGROUND GAS PIPING MINIMUM OF 2 FEET BELOW FINISHED GRADE.
- C. PROVIDE ONE OR MORE ANODES, SIZED FOR PIPE SIZE AND LENGTH OF UNDERGROUND SERVICE.
- D. USE FLEXIBLE CONNECTOR AND GAS COCK FOR FINAL CONNECTION TO EACH APPLIANCE OR OTHER GAS FUELED UNIT.
- E. PROVIDE DIELECTRIC UNION WHERE PIPING EMERGES FROM UNDERGROUND.
- F. WELD ALL CONNECTIONS WHERE PIPING MUST BE CONCEALED. PROVIDE VENTILATED PIPE SLEEVES WHERE REQUIRED.
- G. ARRANGE WITH LOCAL UTILITY FOR GAS TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH NATURAL GAS SERVICE.
- H. MAKE SURE ALL PIPING CONCEALED IN WALLS OR OTHER AREAS ARE PROPERLY VENTED - AT TOP OF SOLID WALLS VENT WITH OPENING WHICH IS 2 TIMES THE DIAMETER OF THE PIPE.
- I. PROVIDE VENTILATED PIPE SLEEVES UNDER ALL PAVING AND OTHER HARD SURFACES.
- J. BOND INTERIOR METAL GAS PIPING TO THE ELECTRICAL SYSTEM GROUND. PIPING SHALL BE ELECTRICALLY CONTINUOUS.
- K. INSTALL CONTINUOUS STRIP OF PLASTIC UTILITY MARKER TAPE OVER GAS PIPING. USE STRIP WITH TRACE WIRE FOR PLASTIC PIPE.
- L. IDENTIFY AND LABEL MEDIUM PRESSURE GAS PIPING AT BOTH ENDS AND THE 6 FOOT INTERVALS IN BETWEEN.
- M. CONTRACTOR SHALL COORDINATE WITH LOCAL GAS COMPANY THE STANDARD GAS PRESSURE. SHOULD THE SYSTEM EXCEED THE STANDARD GAS PRESSURE AND USE MEDIUM OR HIGH PRESSURE GAS CONTRACTOR SHALL PROVIDE A GAS REGULATOR AT EACH PECE OF EQUIPMENT REQUIRING GAS SHOULD LOCATIONS NOT BE SHOWN ON DRAWINGS. PROVIDE VENTING ACCORDINGLY SHOULD THE REGULATOR BE INSTALLED INSIDE THE BUILDING.
- N.

3.03 TESTING:

- A. BEFORE CONCEALING, TEST NATURAL GAS PIPING SYSTEM AND PROVE LEAK FREE. SUBJECT SYSTEM TO AT LEAST 50 PSIG AIR PRESSURE FOR 3 MINUTES.
- B. CHECK UNDERGROUND PIPING COATING WITH A "HOLIDAY" DETECTOR AND PROVE FREE FROM LEAKAGE CURRENTS THROUGH COATING.

END OF SECTION

INSULATION
SECTION 15414

PART 1 GENERAL

1.01 WORK INCLUDED:

- A. INSULATION MATERIALS.
- B. INSULATING CEMENTS.
- C. ADHESIVES.
- D. MASTICS.
- E. SEALANTS.
- F. FACTORY-APPLIED JACKETS.
- G. FIELD-APPLIED FABRIC-REINFORCING MESH.
- H. FIELD-APPLIED JACKETS.
- I. TAPES.
- J. SECUREMENTS.
- K. CORNER ANGLES.

1.02 RELATED WORK:

- A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.
- B. SECTION 15005 MECHANICAL INSULATION.

1.03 SUBMITTALS:

- A. PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED.
- B. SHOP DRAWINGS DETAILING APPLICATION OF PROTECTIVE SHIELDS, SADDLES, AND INSERTS AT HANGERS FOR EACH TYPE OF INSULATION AND HANGER.
- C. DETAIL ATTACHMENT AND COVERING OF HEAT TRACING INSIDE INSULATION.
- D. DETAIL INSULATION APPLICATION AT PIPE EXPANSION JOINTS FOR EACH TYPE OF INSULATION.
- E. DETAIL INSULATION APPLICATION AT ELBOWS, FITTINGS, FLANGES, VALVES, AND SPECIALTIES FOR EACH TYPE OF INSULATION.
- F. DETAIL REMOVABLE INSULATION AT PIPING SPECIALTIES, EQUIPMENT CONNECTIONS, AND ACCESS PANELS.
- G. DETAIL APPLICATION OF FIELD-APPLIED JACKETS.
- H. DETAIL APPLICATION AT LINKAGES OF CONTROL DEVICES.
- I. DETAIL FIELD APPLICATION FOR EACH EQUIPMENT TYPE.
- J. FIELD QUALITY-CONTROL REPORTS.

PART 1 GENERAL

2.01 PRODUCTS:

- A. INSULATION MATERIALS.
 - 1. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.
 - 2. PRODUCTS THAT COME IN CONTACT WITH STAINLESS STEEL SHALL HAVE A LEACHABLE CHLORIDE CONTENT OF LESS THAN 50 PPM WHEN TESTED ACCORDING TO ASTM C 871.
- 3. INSULATION MATERIALS FOR USE ON AUSTENITIC STAINLESS STEEL SHALL BE QUALIFIED AS ACCEPTABLE ACCORDING TO ASTM C 795.
- 4. FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS.

- 5. CELLULAR GLASS: INORGANIC, INCOMBUSTIBLE, FOAMED OR CELLULATED GLASS WITH ANNEALED, RIGID, HERMETICALLY SEALED CELLS. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.

SUBJECT TO COMPLIANCE WITH LOCAL REQUIREMENTS:

- A. FLEXIBLE ELASTOMERIC: CLOSED-CELL, SPONGE OR EXPANDED-RUBBER MATERIALS.
- B. HIGH-TEMPERATURE, MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.
- C. HIGH-TEMPERATURE, MINERAL-FIBER BOARD INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.
- D. MINERAL-FIBER, PERFORMED PIPE INSULATION.
- E. MINERAL-FIBER, PIPE AND TANK INSULATION. MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.
- F. POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC INSULATION.
- G. POLYSTYRENE: RIGID, EXTRUDED CELLULAR POLYSTYRENE INTENDED FOR USE AS THERMAL INSULATION.

2.02 INSULATING CEMENTS:

- A. MINERAL-FIBER, HYDRAULIC-SETTING INSULATING AND FINISHING CEMENT: COMPLY WITH ASTM C 449/C 449M.

2.03 ADHESIVES:

- A. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED, UNLESS OTHERWISE INDICATED.

- 1. CELLULAR-GLASS POLYSTYRENE.
- 2. FLEXIBLE ELASTOMERIC AND POLYOLEFIN.
- 3. MINERAL-FIBER.
- 4. POLYSTYRENE.
- 5. ASJ, FSK, AND PVDG JACKET ADHESIVE.
- 6. PVC JACKET.

2.04 MASTICS:

- A. VAPOR-BARRIER MASTIC
- B. BREATHER MASTIC.

2.05 SEALANTS:

- A. JOIN SEALANT.
- B. FSK AND METAL JACKET FLASHING SEALANT. ASJ FLASHING SEALANT AND VINYL, PVDG, AND PVC JACKET FLASHING SEALANT.

2.06 FACTORY-APPLIED JACKETS:

- A. ASJ
- B. ASJ-SSL
- C. FSK
- D. PVDG JACKET FOR INDOOR APPLICATIONS
- E. PVDG JACKET FOR OUTDOOR APPLICATIONS
- F. PVDG-SSL JACKET

2.07 FIELD-APPLIED FABRIC-REINFORCING MESH:

- A. WOVEN POLYESTER FABRIC

2.08 FIELD-APPLIED JACKETS:

- A. PVC JACKET
- B. ALUMINUM JACKET
- C. UNDERGROUND DIRECT-BURIED JACKET

2.09 TAPES:

- A. ASJ
- B. FSK
- C. PVC
- D. ALUMINUM-FOIL
- E. PVC

2.10 SECUREMENTS:

- A. ALUMINUM BANDS
- B. INSULATION PINS AND HANGERS
- C. NONMETAL, ADHESIVELY ATTACHED, PERFORATED-BASE INSULATION HANGERS
- D. SELF-STICKING BASE INSULATION HANGERS
- E. INSULATION-RETAINING WASHERS
- F. NONMETAL INSULATION-RETAINING WASHERS
- G. STAPLES
- H. WIRE

2.11 CORNER ANGLES:

- A. PVC CORNER ANGLES
- B. ALUMINUM CORNER ANGLES

PART 3 EXECUTION

3.01 PREPARATION

- A. SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION.
- B. COORDINATE INSULATION INSTALLATION WITH THE TRADE INSTALLING HEAT TRACING. COMPLY WITH REQUIREMENTS FOR HEAT TRACING THAT APPLY TO INSULATION.
- C. MIX INSULATING CEMENTS WITH CLEAN POTABLE WATER; IF INSULATING CEMENTS ARE TO BE IN CONTACT WITH STAINLESS-STEEL SURFACES, USE DEMINERALIZED WATER.

3.02 GENERAL INSTALLATION REQUIREMENTS:

- A. INSTALL INSULATION MATERIALS, ACCESSORIES AND FINISHES WITH SMOOTH, STRAIGHT, AND EVEN SURFACES, FREE OF VOIDS THROUGHOUT THE LENGTH OF EQUIPMENT AND PIPING INCLUDING FITTINGS, VALVES, AND SPECIALTIES.
- INSTALL INSULATION MATERIALS, FORMS, VAPOR BARRIERS OR RETARDERS, JACKETS, AND THICKNESS" REQUIRED FOR EACH ITEM OF EQUIPMENT AND PIPE SYSTEM.
- INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE.

END OF SECTION

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS
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OWNER

DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

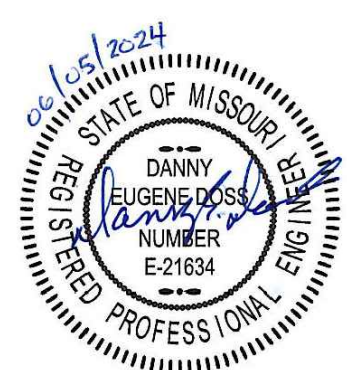
ARCHITECT

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

ACADEMY BANK
BRANCH:
LEE'S SUMMIT

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

PERMIT SET

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








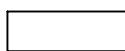








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P-700

LEGEND

NEC GENERAL NOTES:

ABBREVIATIONS

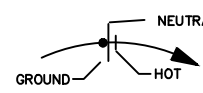
	CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND
	LUMINAIRE SYMBOLS. SEE LUMINAIRE SCHEDULE FOR SPECIFIC FIXTURES.
\$	SINGLE POLE, SINGLE THROW LIGHT SWITCH, 20A (WP = WEATHERPROOF COVER)
\$ ₃	THREE-WAY LIGHT SWITCH, 20A
\$ _{AS}	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH AUTO SENSOR
\$ _{PL}	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH PILOT LIGHT
\$ _{PB}	PUSHBUTTON DOOR BELL ACTIVATOR
\$ _T	TIMER SWITCH
\$ _D	DIMMER SWITCH
\$ _V	VARIABLE SPEED FAN CONTROL SWITCH
⊖	SINGLE RECEPTACLE, GROUNDED
⊖	DUPLEX RECEPTACLE, GROUNDED
⊖ _{IG}	DUPLEX RECEPTACLE, ISOLATED GROUND
⊖ _{GFCI}	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFCI)
⊖ _{GFCI WP}	DUPLEX RECEPTACLE, GFCI WITH WEATHERPROOF COVER
⊖	DUPLEX RECEPTACLE, WITH (2) USB PORTS
ⓧ	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE
ⓧ	SPECIAL PURPOSE RECEPTACLE AS NOTED
C ▼	TELEVISION CABLE OUTLET WITH 3/4" C.O. TO MATV J-BOX
H ▼	HIGH DEFINITION TV OUTLET WITH (3) CAT6 CABLES
	FIRE ALARM SYSTEM CONTROL PANEL
	FIRE ALARM SYSTEM PULL STATION
	FIRE ALARM SYSTEM MINI-HORN-STROBE COMBINATION, GUESTROOM
	FIRE ALARM SYSTEM STROBE
	FIRE ALARM SYSTEM HORN-STROBE
Ⓢ	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR, GUESTROOM
Ⓢ	FIRE ALARM SYSTEM SMOKE DETECTOR
Ⓢ -----	FIRE ALARM SYSTEM DUCT MOUNT SMOKE DETECTOR
④	FIRE ALARM SYSTEM THERMAL DETECTOR
Ⓢ Ⓢ _{SD}	120V CONNECTION TO FIRE/SMOKE DAMPER
	DOORBELL CHIME WITH ALERT LIGHT
○	JUNCTION BOX
Ⓣ	THERMOSTAT
	TELEPHONE TERMINAL BOARD (TTB)
◀	TELEPHONE OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
◀48" HP	HOUSE TELEPHONE OUTLET MOUNTED AT 48" AFF WITH MINIMUM 1/2" C.O. TO TTB
	TELEPHONE ALERT LIGHT, SIMILAR TO FIRE ALARM STROBE, WITH COVERPLATE, WHITE STROBE LENS, WITH "PHONE" ON BOTH SIDES IN BLACK LETTERS
◀	COMPUTER OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
◀ (#)	COMPUTER OUTLET, # INDICATES NUMBER OF CAT6 JACKS, NO INDICATES ONE CABLE
◀	DUPLEX TELEPHONE/DATA OUTLETS
	PUSHBUTTON
	PANELBOARD
	ELECTRICAL DISTRIBUTION EQUIPMENT
	DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH
	CONTACTOR
	TIME SWITCH
⊙	MOTOR CONNECTION
\$ _M	MOTOR RATED SWITCH
	CONNECTION TO ELECTRONIC CARD READER/DOOR RELEASE
	CLOSED CIRCUIT SECURITY CAMERA
⊙	ELECTRO-MAGNETIC DOOR HOLDER
	SPEAKER - CEILING

- WHERE THE CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(2). (310.15(B)(2))
- WHERE THE CONDUCTORS OR CABLES ARE INSTALLED IN CONDUITS EXPOSED TO DIRECT SUNLIGHT ON
OR ABOVE ROOFTOPS SHALL BE REDUCED PER TABLE 310.15(B)(2)(C).
- WHERE TWO DIFFERENT AMPACITIES APPLY TO ADJACENT PORTIONS OF A CIRCUIT, THE AMPACITY
SHALL BE PER THE 310.15(2) EXCEPTION.
- WHERE THE MAXIMUM AMBIENT TEMPERATURE IS OVER 30°C, (86°F), THE REFERENCED
CORRECTION
FACTORS SHALL APPLY TO CONDUCTORS. (TABLE 310.16 TO 19)
- INDICATE WHICH WIRING METHODS (E.G., FMC, EMT, AC, IMC, RMC, ETC.) ARE TO BE
INSTALLED
AT ANY/ALL LOCATIONS ON THE PLANS. (CHAPTER 9, TABLES 4, 5 & 5A, APPENDIX C)
- NOT USED
- NOT USED
- EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL
SIMULTANEOUSLY
DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT
ORIGINATES.
(210.4(B)).
- ALL WORK TO COMPLY WITH NATIONAL ELECTRIC CODE 2020.
- THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT
SHALL BE
GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE
PANELBOARD
OR OTHER POINT OF ORIGINATION. (210.4(D))
- PROVIDE SEPARATE SUBMITTAL, OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND
APPROVALS FOR
ALL FIRE ALARM SYSTEM INSTALLATIONS AND / OR MODIFICATIONS
ALL INSTALLED EQUIPMENT SHALL BE LISTED AND APPROVED BY A CITY APPROVED
TESTING LABORATORY.
- ALL INSTALLED EQUIPMENT AND MATERIAL SHALL BE NRTL LISTED AND APPROVED FOR
THE
INTENDED PURPOSE.
- ALL EQUIPMENT TO BE U.L. LISTED OR EQUIVALENT.
- FIELD VERIFY SERVICE RECEPTACLE IS PROVIDED WITHIN 25' OF MECHANICAL
EQUIPMENT. (210.63)
- MULTIPLE RACEWAYS CONTAINING MORE THAN 2 CURRENT CARRYING CONDUCTORS SHALL
COMPLY
WITH [2017, NEC, 310.15(B)(2)(A)].
- WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM THE EQUIPMENT IT
SUPPLIES, THE SWITCH OR CIRCUIT BREAKER MUST INCLUDE PROVISIONS FOR ADDING A
LOCK, AND THESE PROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING
PROVISIONS HAVE TO BE PART OF THE EQUIPMENT, EITHER INHERENT TO THE EQUIPMENT
DESIGN OR AS AN ACCESSORY FEATURE THAT CAN BE INSTALLED ON THE EQUIPMENT.
[410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION NO. 1,
600.6(A)(2)(3), 620.51(A) EXCEPTION NO. 1, 620.53, 620.55]
- LIGHT FIXTURE IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR
PROVIDE 3" MINIMUM CLEARANCE.
- LIGHTS AND PANELS SHALL NOT BE RECESSED IN FIRE RATED ASSEMBLIES UNLESS BOXED
WITH EQUIVALENT CONSTRUCTION.
- MOUNT THE FOLLOWING ABOVE FINISHED FLOOR:
OUTLETS- 18" TO 48"
SWITCHES- 36" TO 48"
THERMOSTATS- 36" TO 48"
MEASURED FROM BOTTOM & TOP OF BOXES RESPECTIVELY.
- PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECTION 408.4, NEC.
- W.P. COVER OF OUTLETS TO COMPLY WITH SECT. 406.8 (B) (I), NEC.

APPLICABLE CODES

CODES:
NATIONAL ELECTRICAL CODE 2017
COMPLY WITH LOCAL JURISDICTION REQUIREMENTS

VOLTAGE DROP NOTES:



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

0 - 75 Feet	-----#12 AWG
75 - 150 Feet	-----#10 AWG
150 - 250 Feet	-----# 8 AWG
250 - 350 Feet	-----# 6 AWG

THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE AND 3 BRANCH CIRCUITS FOR THREE PHASE PER HOMERUN (AS INDICATED ON THE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION AND CIRCUIT NUMBER(S).

CONDUIT CONCEALED IN WALL OR ABOVE CEILING SPACE. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.

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

AC	AMPERE	GND	GROUND	RO	RACEWAY ONLY
AFF	ALTERNATING CURRENT, ABOVE COUNTER	GRS	GALVANIZED RIGID STEEL	SHT	SHEET
AIC	ABOVE FINISHED FLOOR	HIS	HIGH INTENSITY DISCHARGE	SPEC	SPECIFICATIONS
AL	AMPS INTERRUPTING CAPACITY	HP	HORSEPOWER	SW	SWITCH
AMP	ALUMINUM	HT	HEAT TRACE	SWBD	SWITCHBOARD
AWG	AMPERE	KCMIL	THOUSAND CIRCULAR MILLS	SWGR	SWITCHGEAR
BKR	AMERICAN WIRE GAUGE	KEC	KITCHEN EQUIPMENT CONTRACTOR	TE	TAMPER RESISTANT
BLDG	BREAKER	KVA	KILOVOLT AMPERES	TYP	TYPICAL
BOH	BUILDING	KW	KILOWATT	UC	UNDER COUNTER
C	BACK OF HOUSE	LTG	LIGHTING	UG	UNDERGROUND
CKT	COIL or CONDUIT	MFR	MANUFACTURER	UL	UNDERWRITERS LABO
CO	CIRCUIT	MIN	MINIMUM	UON	UNLESS OTHERWISE
CT	CONDUIT/RACEWAY ONLY	MLO	MAIN LUGS ONLY	V	VOLTS
Cu	CURRENT TRANSFORMER	N	NEUTRAL	W	WATTS
CW	COPPER	NEC	NATIONAL ELECTRICAL CODE (NFPA-70)	WW	WARM WHITE
DCO	COOL WHITE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	WP	WEATHERPROOF
DN	DUPLEX CONVENIENCE OUTLET	NT	NEON TRANSFORMER	W/	WITH
EXIST	DOWN	NTS	NOT TO SCALE	W/O	WITHOUT
EF	EXISTING	PNL	PANEL	XFMR	TRANSFORMER
ELEC	EXHAUST FAN	POC	POINT OF CONNECTION	XFR	TRANSFER
EMT	ELECTRICAL	PT	POTENTIAL TRANSFORMER	Z	IMPEDANCE OR ZONE
EQUIP	ELECTRICAL METALLIC TUBING	PVC	POLYVNYL CHLORIDE		
FLR	EQUIPMENT	PWR	POWER		
FLUOR	FLOOR	QTY	QUANTITY		
FOH	FLUORESCENT	RECEPT	RECEPTACLE		
GFCI	FRONT OF HOUSE	RI	ROUGH-IN		
	GROUND FAULT CIRCUIT INTERRUPTER	RM	ROOM		

GENERAL NOTES

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, ORDINANCES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES TO INSTALLATION.
2. PROVIDE ITEMS NECESSARY TO COMPLETE ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE CONDITIONS WHICH MAY AFFECT BID. ANY ITEMS NOT FULLY UNDERSTOOD SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING. PLANS ARE BASED ON OUR BEST UNDERSTANDING OF EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL RELEVANT EXISTING CONDITIONS.
4. "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, OR MECHANICAL).
5. WHEREVER THE WORD "PROVIDE" IS USED, IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
6. COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES.
7. REFER TO EQUIPMENT DRAWINGS FOR MECHANICAL CHARACTERISTICS (SIZE, LOCATION, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
8. PROVIDE CONDUCTORS AND RACEWAYS PER NATIONAL ELECTRICAL CODE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR KEY PLANS.
10. ALL DIMENSIONS SHALL BE PER THE ARCHITECTURAL DRAWINGS.
11. PRIOR TO PROVIDING CABLES FOR TV, CONFIRM REQUIREMENTS WITH ARCHITECT.
12. NEW ELECTRICAL BOXES LOCATED IN WALLS SEPARATING TWO ROOMS SHALL NOT BE LOCATED "BACK TO BACK". INSTALL PUTTY PACKS BEHIND NEW BOXES FOR SOUND ATTENUATION.
13. ALL RECEPTACLES AND SWITCHES SHALL BE BETWEEN 18" AND 48" AFF. ADJUST HEIGHT AS REQUIRED TO MEET ADA.
14. NOT USED
15. CONTRACTOR TO INSTALL FLUSH MOUNT ALL RECEPTACLES BOXES IN FINISHED WALLS THROUGHOUT.
16. CONTRACTOR TO LABEL PROPERLY ALL SERVICES AND UNIT PANELS.
17. CONTRACTOR TO INSTALL WET RATED ALARM WIRE IN UNDER GROUND INSTALLATIONS .
18. NOT USED
19. NOT USED

SHEET INDEX

SHEET NUMBER	SHEET NAME
E-000	ELECTRICAL LEGEND & ABBREVIATIONS
E-100	LIGHTING PLAN
E-101	POWER PLAN
E-600	ELECTRICAL SCHEDULES
E-700	SPECIFICATIONS

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ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL

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

OWNER

DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

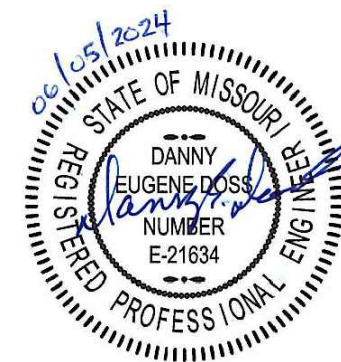
ARCHITECT

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT:	MIKE KRESS
LICENSE NO.	5715



SEAL

ACADEMY BANK
BRANCH:
LEE'S SUMMIT

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

PERMIT SET

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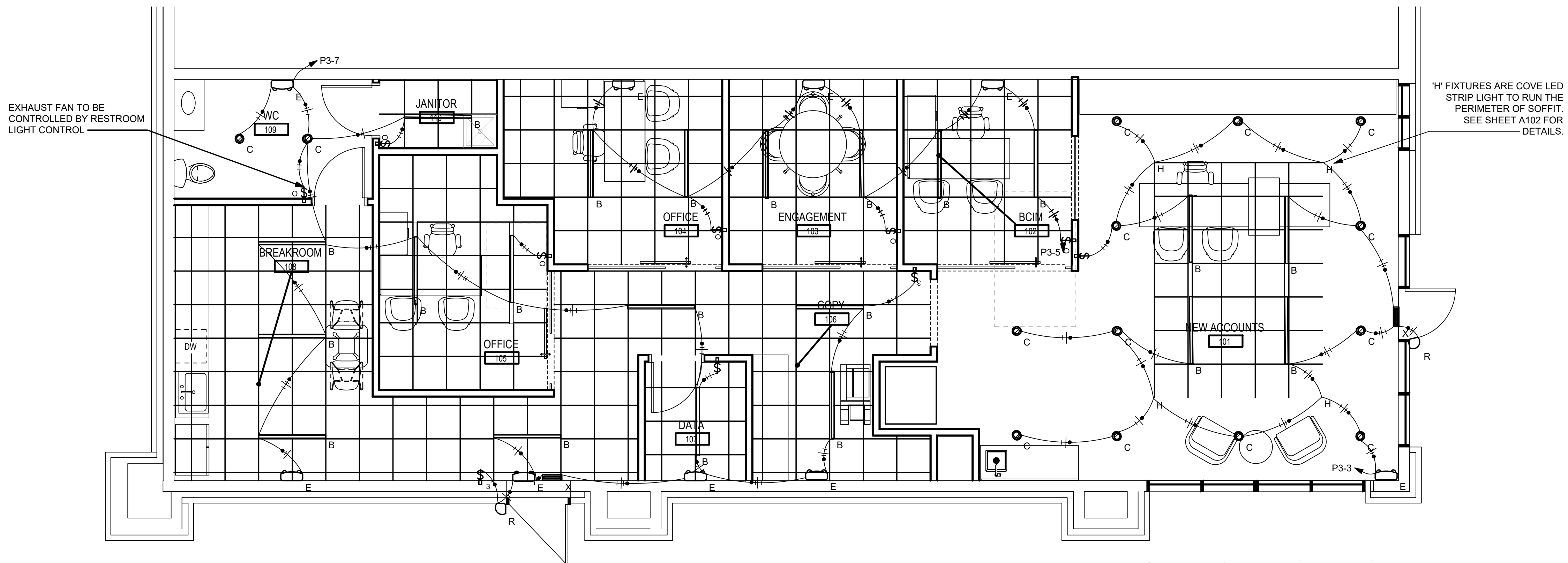
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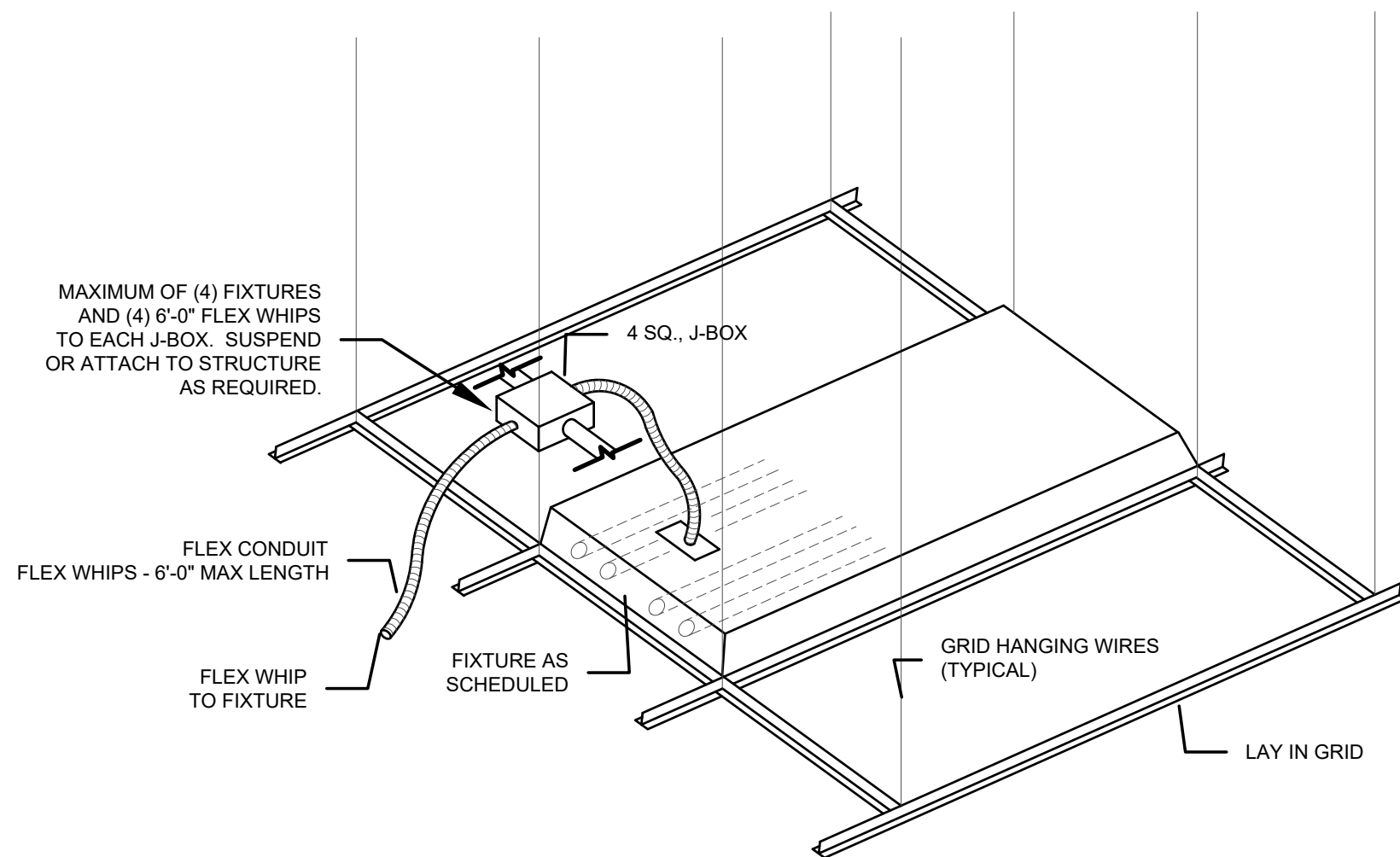
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KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
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1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

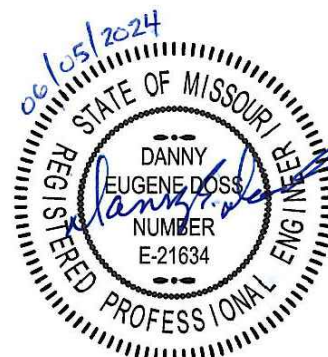


2 DETAIL OF LIGHT FIXTURE INSTALLATION
SCALE: NO SCALE

ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL
PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
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ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

ACADEMY BANK
BRANCH:
LEE'S SUMMIT

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

PERMIT SET

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1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.5244

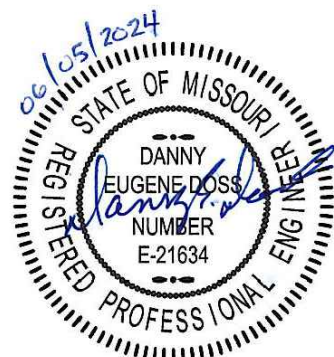
ARCHITECT

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.895.1111
SOUTHWINDGRP.COM

ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

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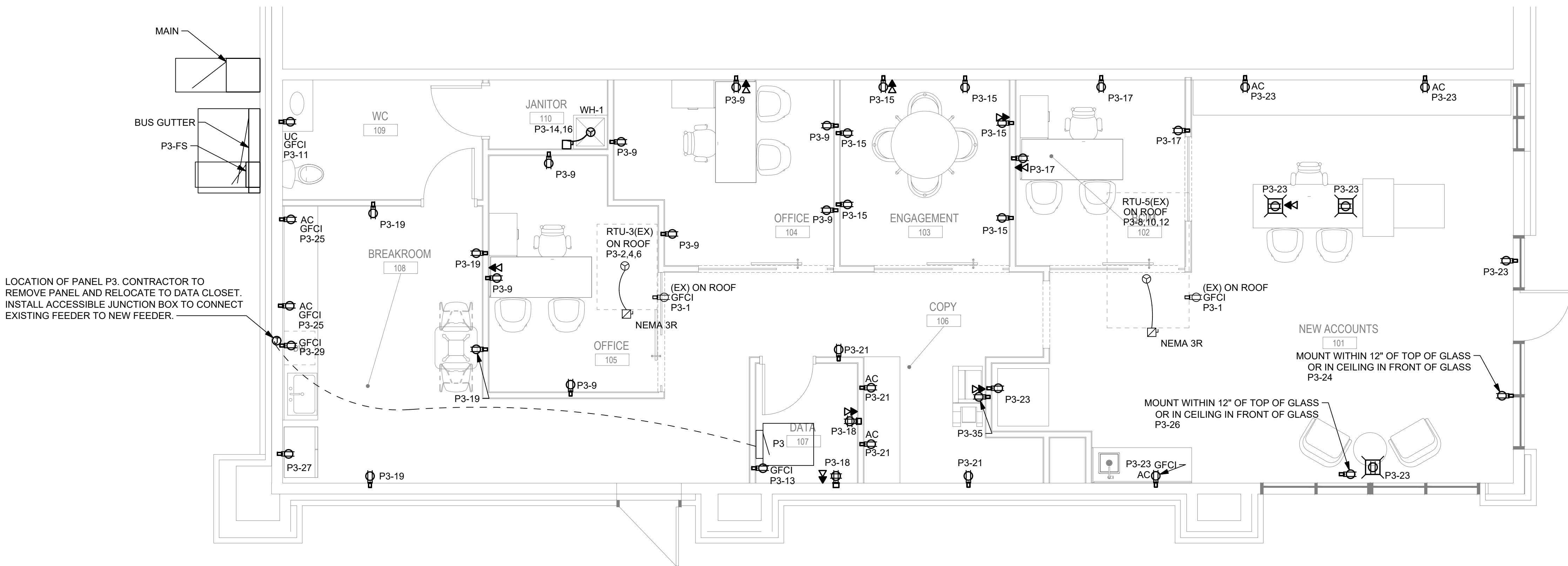
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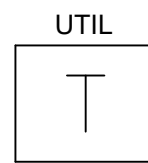
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LOCATION OF PANEL P3. CONTRACTOR TO REMOVE PANEL AND RELOCATE TO DATA CLOSET. INSTALL ACCESSIBLE JUNCTION BOX TO CONNECT EXISTING FEEDER TO NEW FEEDER.









1 POWER PLAN
SCALE: 1/4" = 1'-0"

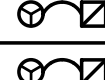




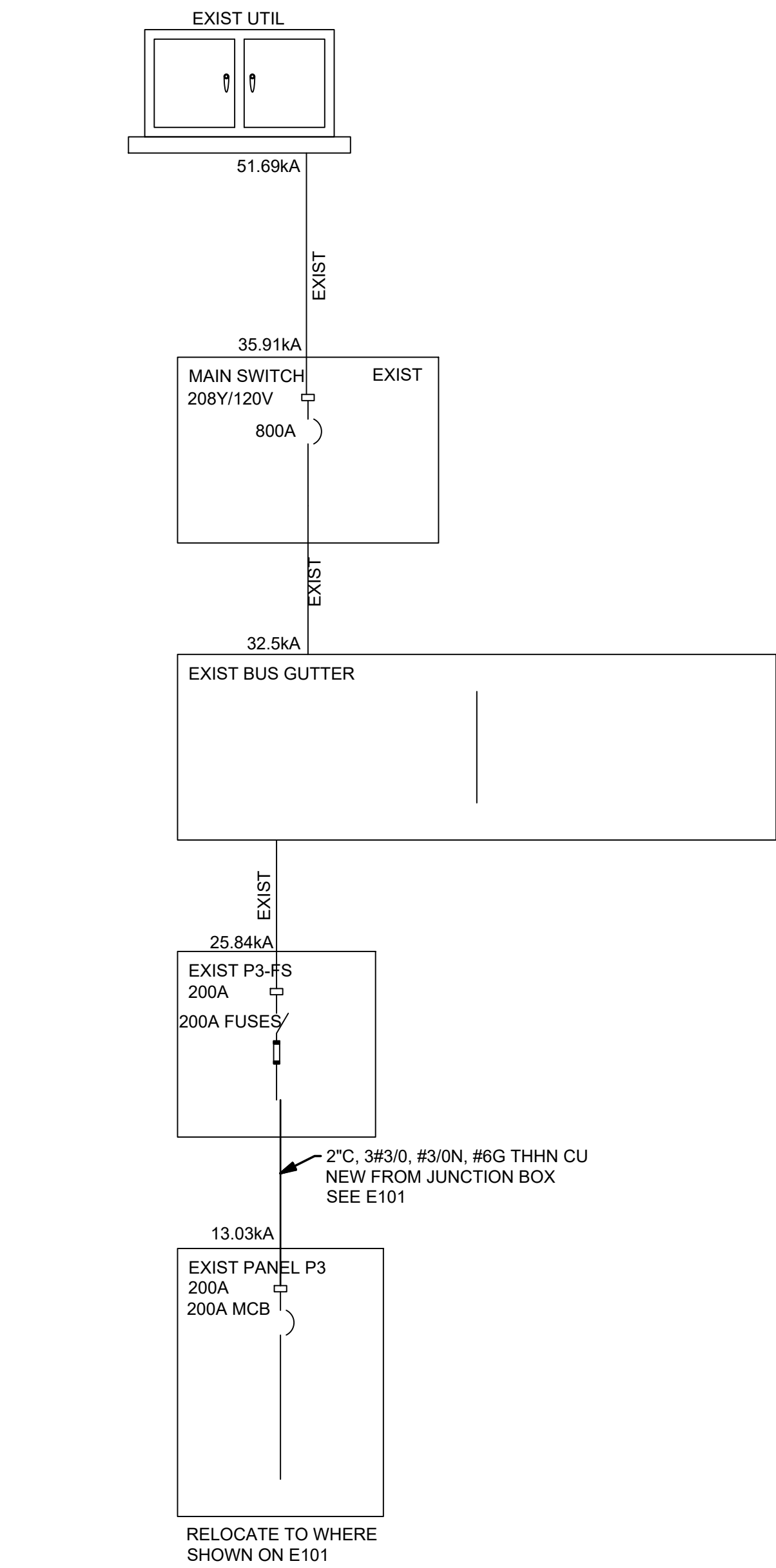
ACEI
ADVANCED CONSULTING ENGINEERS
MECHANICAL ELECTRICAL INDUSTRIAL

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

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.

LUMINAIRE SCHEDULE			
CALLOUT	SYMBOL	MODEL	INPUT WATTS
B		Lithonia Lighting, ZL1N L48 5000LM FST MVOLT 40K 80 CRI	34.31
C		Lithonia Lighting, ZL2N L24 2000LM MDD XX 40K 80CRI XX	35.01
E		Lithonia Lighting, ELM6L	8.4
H		Flexfire LEDs Colorbright Natural White Strip	55
R		Lithonia Lighting, MR24 K0606	5.4
X		Lithonia Lighting, ECB LED	2.32

EQUIPMENT SCHEDULE					
CALLOUT	SYMBOL	VOLTS	AMPS	BREAKER	CIRCUIT
RTU-3(EX)		208V 3P 3W	28	35/3	P3-2,4,6
RTU-5(EX)		208V 3P 3W	35	50/3	P3-8,10,12
WH-1		208V 2P 2W	21.63	30/2	P3-14,16



1 SINGLE LINE DIAGRAM
N.T.S.

P3									
ROOM MOUNTING FLUSH FED FROM P3-FS		VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC 22,000 MAIN BKR 200 LUGS STANDARD				
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD VA			FEEDER RACEWAY AND CONDUCTORS			
			A	B	C				
1	20/1	MAINT RECEPTACLE	360			1/2"C,1#12, #12N, #12G			
3	20/1	LIGHTING		793		1/2"C,1#10, #10N, #10G			
5	20/1	LIGHTING			231	1/2"C,1#10, #10N, #10G			
7	20/1	LIGHTING	497			1/2"C,1#10, #10N, #10G			
9	20/1	OFFICE 104 & 105 RECEPTACLES		1,440		1/2"C,1#12, #12N, #12G			
11	20/1	FAUCET SENSOR			180	1/2"C,1#12, #12N, #12G			
13	20/1	MAINT RECEP	180			1/2"C,1#12, #12N, #12G			
15	20/1	ENGAGEMENT RECEPTACLES		1,080		1/2"C,1#12, #12N, #12G			
17	20/1	BOIM RECEPTACLES			540	1/2"C,1#12, #12N, #12G			
19	20/1	BREAKROOM RECEPTACLES	720			1/2"C,1#12, #12N, #12G			
21	20/1	COPY ROOM RECEPTACLES		720		1/2"C,1#12, #12N, #12G			
23	20/1	NEW ACCOUNTS RECEPTACLES			1,440	1/2"C,1#12, #12N, #12G			
25	20/1	BREAKROOM GFCI	360			1/2"C,1#12, #12N, #12G			
27	20/1	FRIDGE - GFCI BREAKER		1,000		1/2"C,1#12, #12N, #12G			
29	20/1	DISHWASHER RECEPTACLE		1,300		1/2"C,1#12, #12N, #12G			
31	-/1	SPACE	0						
33	-/1	SPACE		0					
35	20/1	COPIER RECEPTACLE			1,000	1/2"C,1#12, #12N, #12G			
37	-/1	SPACE	0						
39	-/1	SPACE		0					
41	-/1	SPACE			0				
2	35/3	RTU-3(EX)	3,360			3/4"C,3#8, #10G			
4	-/1			3,360	3,360				
6	-/1								
8	50/3	RTU-5(EX)	4,200		4,200	3/4"C,3#6, #10G			
10	-/1								
12	-/1				4,200				
14	30/2	WH-1	2,250			1/2"C,2#10, #10G			
16	-/1			2,250					
18	20/1	DATA RECEPTACLE			720	1/2"C,1#12, #12N, #12G			
20	-/1	SPACE	0						
22	-/1	SPACE		0					
24	20/1	SHOW WINDOW RECEPTACLE			1,230	1/2"C,1#12, #12N, #12G			
26	20/1	SHOW WINDOW RECEPTACLE	1,230			1/2"C,1#12, #12N, #12G			
28	-/1	SPACE		0					
30	-/1	SPACE			0				
32	-/1	SPACE	0						
34	-/1	SPACE		0					
36	-/1	SPACE			0				
38	-/1	SPACE	0						
40	-/1	SPACE		0					
42	-/1	SPACE			0				
TOTAL CONNECTED VA BY PHASE			13,200	14,800	14,200				
			CONN VA	CALC VA		CONN VA	CALC VA		
LIGHTING			1,520	1,900	(125%)	MOTORS	22,700	22,700	(100%)
LARGEST MOTOR			12,600	3,150	(25%)	RECEPTACLES	13,500	11,800	(50%>10)
						CONTINUOUS	4,500	5,630	(125%)
						TOTAL LOAD		45,100	
						BALANCED 3-PHASE LOAD		125 A	

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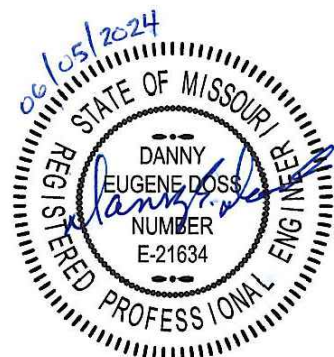
PO BOX 427
ROGERS, AR 72756
PH 479-631-1712
FX 479-631-1854
ACEI@ADVENGINEERS.COM

OWNER
DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MO 64105
816.472.3244

ARCHITECT
GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CONTRACTOR
SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

ACADEMY BANK
BRANCH:
LEE'S SUMMIT

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

PERMIT SET
ISSUE DATE: 05.30.24
REV DESCRIPTION DATE

PROJECT NO. 16014
DRAWN BY:
CHKD BY:
SHEET TITLE

E-600

VOLTAGE DROP NOTES:



HOMERUN TO PANEL INDICATED (CONCEALED). MINIMUM 3/4" CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL CONDUCTORS.
FOR HOMERUNS EXCEEDING 75' USE THE NEXT TABLE TO SIZE THE CONDUCTORS:
0 - 75 Feet ----- #12 AWG
75 - 150 Feet ----- #10 AWG
150 - 250 Feet ----- #8 AWG
250 - 350 Feet ----- #6 AWG
THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE AND 3 BRANCH CIRCUITS FOR THREE PHASE PER HOMERUN (AS INDICATED ON THE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION AND CIRCUIT NUMBER(S).
CONDUIT CONCEALED IN WALL OR ABOVE CEILING SPACE. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.
UNDERGROUND OR BELOW SLAB CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.

