



CYNTERGY
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CYNTERGY ENGINEERING, PLLC
LICENSE # 3537

SHEET ISSUE MATRIX										
SHEET NO	SHEET TITLE	ISSUE FOR CONSTRUCTION								
		03/29/2023	04/06/2023	01/30/2026	AS1	AS1	AS1	AS1	AS1	AS1
• ISSUED ○ ISSUED FOR REFERENCE ONLY										
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SAMUEL KESSLER GRAVES, PE
ENGINEER OF RECORD

**HARRILL-DOBSON INTERIOR
UPGRADES**
NORTHEASTERN OKLAHOMA A&M COLLEGE
200 I STREET NORTHEAST
MIAMI, OK 74354

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ISSUES / REVISIONS		
NO	DATE	DESCRIPTION
1	03/29/2023	ISSUE FOR CONSTRUCTION
2	04/06/2023	AS1
3	01/30/2026	AS2

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SHEET NAME
COVER SHEET

SHEET NUMBER
G-001

HARRILL-DOBSON INTERIOR UPGRADES

NORTHEASTERN OKLAHOMA A&M COLLEGE

200 I STREET NORTHEAST
MIAMI, OK 74354

CONSTRUCTION DOCUMENTS

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NORTHEASTERN OKLAHOMA A&M COLLEGE
200 1ST STREET, NORTHEAST
MARIETTA, OK 74854

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SHEET NAME:
NOTES, LEGENDS, AND
ABBREVIATIONS

SHEET NUMBER

A-001

ABBREVIATIONS

ACC	ACCESSIBLE	LAM	LAMINATE
ACT	ACOUSTICAL CEILING TILE	LAV	LAVATORY
ADDM	ADDENDUM	LKR	LOCKER
ADJ	ADJACENT, ADJUSTABLE	LT	LIGHT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AFG	ABOVE FINISHED GRADE	LVR	LOUVER
AFS	ABOVE FINISHED SLAB		
ALUM	ALUMINUM	MATL	MATERIAL
AND	AND/ZE	MAX	MAXIMUM
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MEMB	MEMBRANE
ASPH	ASPHALT	MFD	MANUFACTURED
		MFR	MANUFACTURER
BAT	BATTEN	MIN	MINIMUM
BITUM	BITUMINOUS	MIRR	MIRROR
BLDG	BUILDING	MISC	MISCELLANEOUS
BOT	BOTTOM	MO	MASONRY OPENING
BTWN	BETWEEN	MTD	MOUNTED
		MTG	MOUNTING
CAB	CABINET	MTL	METAL
CG	CORNER GUARD	MULL	MULLION
CJ	CONTROL JOINT		
CL	CENTER LINE	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NUMBER
CLO	CLOSET	NOM	NOMINAL
CLR	CLEAR	NTS	NOT TO SCALE
CLRM	CLASSROOM		
CMJ	CONCRETE MASONRY UNIT	OIO	OUT TO OUT
CO	CASED OPENING	OA	OVERALL
COL	COLUMN	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONF	CONFERENCE	OPD	OVERFLOW DRAIN
CONSTR	CONSTRUCTION	OH	OVERHANG
CONT	CONTINUOUS	OPH	OPPOSITE HAND
COORD	COORDINATE	OPNG	OPENING
CORR	CORRIDOR	OPP	OPPOSITE
CPT	CARPET		
CT	CERAMIC TILE	PLAM	PLASTIC LAMINATE
CTB	CERAMIC TILE BASE	PLAS	PLASTER
		PLBG	PLUMBING
DEMO	DEMOLITION	PLYWD	PLYWOOD
DF	DRINKING FOUNTAIN	PR	PAIR
DIA	DIAMETER	PRCST	PRE-CAST
DISP	DISPENSER	PT	PAINT
DN	DOWN		
DS	DOWNSPOUT	QT	QUARRY TILE
DW	DISHWASHER	QTR	QUARTER
DWR	DRAWER	QTY	QUANTITY
EA	EACH	R	RADIUS, RISER
EHD	ELECTRIC HAND DRYER	RB	RUBBER BASE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RCP	REFLECTED CEILING PLAN
EJ	EXPANSION JOINT	RD	ROOF DRAIN
EL	ELEVATION	REF	REFRIGERATOR
ELEC	ELECTRICAL	REINF	REINFORCED
ELEV	ELEVATOR	REQ	REQUIRED
EOS	EDGE OF SLAB	REDD	REQUIRED
EQ	EQUAL	RESIL	RESILIENT
EQUIP	EQUIPMENT	REST	RESTROOM
EQUIV	EQUIVALENT	RM	ROOM
EWIC	ELECTRIC WATER COOLER	RO	ROUGH OPENING
EXIST	EXISTING		
EXT	EXTERIOR, EXTERNAL	SC	SOLID CORE
		SCHED	SCHEDULE
FD	FLOOR DRAIN	SCWD	SOLID CORE WOOD DOOR
FE	FIRE EXTINGUISHER	SD	SOAP DISPENSER
FEC	FIRE EXTINGUISHER CABINET	SECT	SECTION
FF	FINISH FACE	SHT	SHEET
FHC	FIRE HOSE CABINET	SIM	SIMILAR
FIN	FINISH	SPEC	SPECIFICATION
FIXT	FIXTURE	SST	STAINLESS STEEL
FLASH	FLASHING	STD	STANDARD
FLEX	FLEXIBLE	STL	STEEL
FLR	FLOOR	STOR	STORAGE
FRMG	FRAMING	STRUCT	STRUCTURAL
FURG	FURRING	SUB	SUBSTITUTE
		SUSP	SUSPENDED
GALV	GALVANIZED		
GALV STL	GALVANIZED STEEL	T	TREAD
GB	GRAB BAR	T&G	TONGUE AND GROOVE
GL	GLASS	TEL	TELEPHONE
GLZ	GLAZING	THK	THICKNESS
GRAN	GRANITE	THRES	THRESHOLD
GT	GREASE TRAP	TMPD GL	TEMPERED GLASS
GYP BD	GYPSSUM BOARD	TS	TUBE STEEL
		TV	TELEVISION
HC	HANDICAP	TYP	TYPICAL
HCP	HANDICAPPED		
HCWD	HOLLOW CORE WOOD DOOR	UC	UNDERCUT
HDR	HEADER	UGND	UNDERGROUND
HDW	HARDWARE	UNFIN	UNFINISHED
HDWD	HARDWOOD	UNO	UNLESS NOTED OTHERWISE
HM	HOLLOW METAL	UR	URNAL
HORIZ	HORIZONTAL		
HT	HEIGHT	VCT	VINYL COMPOSITION TILE
		VERT	VERTICAL
ID	INSIDE DIAMETER	VEST	VESTIBULE
INFO	INFORMATION	VWC	VINYL WALL COVERING
INSUL	INSULATION	VWF	VINYL WALL FABRIC
INT	INTERIOR		
		W	WIDE
J-BOX	JUNCTION BOX	W	WITH
JAN	JANITOR	W/O	WITHOUT
		WD	WOOD
KIT	KITCHEN	WP	WATERPROOFING
KO	KNOCKOUT	WSCT	WAINSCOT
		WT	WEIGHT

SYMBOLS

	CALLOUT INDICATOR		GRID INDICATOR
	ELEVATION IDENTIFIER		KEYNOTE INDICATOR
	EXTERIOR ELEVATION INDICATOR		MATCH LINE INDICATOR
	INTERIOR ELEVATION INDICATOR		NORTH INDICATOR
	SECTION IDENTIFIER		REVISION INDICATOR
			ROOM IDENTIFIER

DEMOLITION PLAN LEGEND

	EXISTING TO REMAIN		EXISTING SUSPENDED CEILING
	EXISTING TO BE DEMOLISHED		NEW 2' x 2' SUSPENDED CEILING
	EXISTING DOOR TO BE DEMOLISHED. REFER DOOR SCHEDULE FOR EXISTING FRAMES TO REMAIN		NEW GYPSUM CEILING
	FLOOR TO BE DEMOLISHED		NEW LAY-IN LIGHT FIXTURE
	CEILING TO BE DEMOLISHED		NEW RECESSED LIGHT FIXTURE
	KEYNOTE INDICATOR		NEW VANITY LIGHT FIXTURE

CEILING PLAN LEGEND

	MATERIAL CEILING INDICATOR		OCCUPANCY SENSOR
	EMERGENCY LIGHT		ROOM IDENTIFIER
	ACT 8'-0" AFF		NEW EXHAUST GRILLE; RE: MECH
	PARTITION TYPE A. EXTENDS TO BOTTOM OF CEILING GRID; RE: FLOOR PLANS FOR LOCATIONS		

FLOOR PLAN LEGEND

	EXISTING WALLS AND PARTITIONS		DOOR IDENTIFIER
	NEW WALLS AND PARTITIONS		ROOM IDENTIFIER
	DOOR IDENTIFIER		WALL TYPE INDICATOR

ROOM FINISH LEGEND

	ROOM IDENTIFIER AND FINISH INDICATOR		KEYNOTE INDICATOR
	TRANSITION INDICATOR		T1
	T1		LV1
	ALT2		ALT1
	NOT IN SCOPE		

MOUNTING HEIGHT AND CLEARANCE LEGEND

	WALL MOUNTED MIRROR
TITLE	
1. THE ACCESSIBLE CRITERIA INDICATED HERE ARE IN COMPLIANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN 2010 AND ICC/ANSI A117.1-2003.	
2. ALL FIXTURES AND ACCESSORIES TO COMPLY WITH THESE STANDARDS UNLESS NOTED OTHERWISE.	
3. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. IN AMBULATORY ACCESSIBLE COMPARTMENTS, FLUSH CONTROLS SHALL BE PERMITTED TO BE LOCATED ON EITHER SIDE OF THE WATER CLOSET.	
4. GRAPHICS ARE PROVIDED AS REFERENCE FOR STANDARD MOUNTING HEIGHTS AND MAY NOT BE ACCURATE FOR ACTUAL PRODUCTS SELECTED FOR PROJECT.	



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**HARRILL-DOBSON INTERIOR
UPGRADES**
NORTHEASTERN OKLAHOMA A&M COLLEGE
200 1ST STREET, NORTHEAST
MARRILL, OK 74364

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03/29/2023	ISSUE FOR CONSTRUCTION
1	01/30/2026 ASI 2

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SHEET NAME:
FIRST FLOOR DEMOLITION
PLAN

SHEET NUMBER

AD101

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING DOOR TO BE DEMOLISHED. REFER DOOR SCHEDULE FOR EXISTING FRAMES TO REMAIN
- FLOOR TO BE DEMOLISHED
- CEILING TO BE DEMOLISHED
- KEYNOTE INDICATOR

ALTERNATES

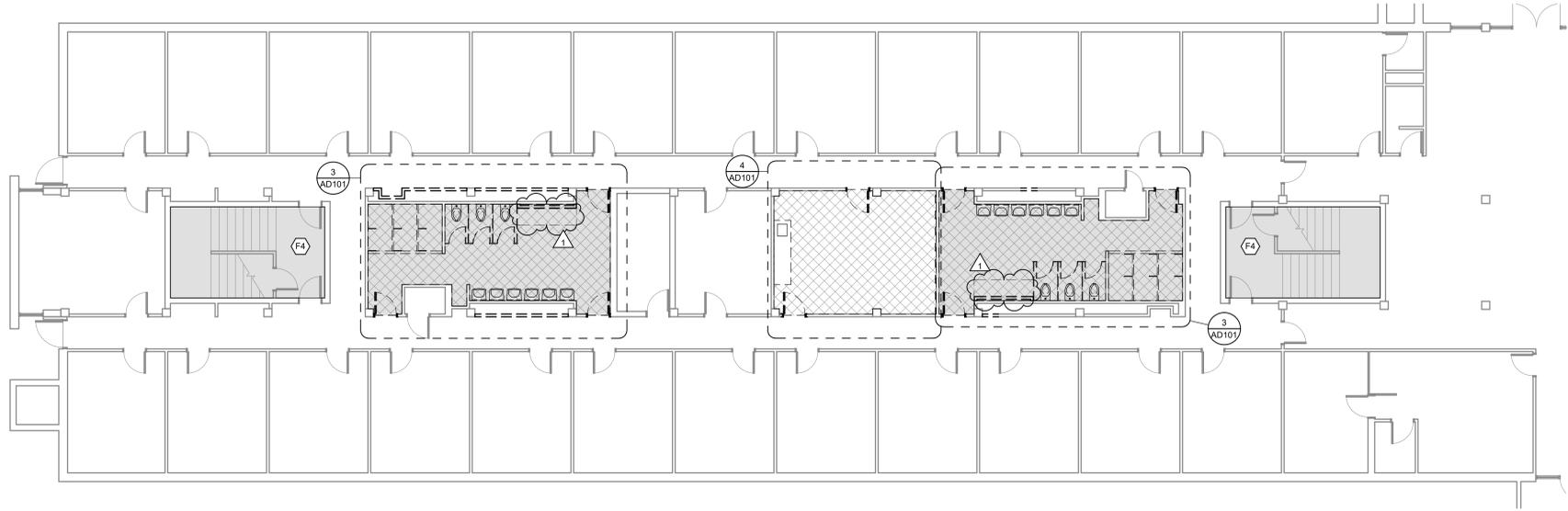
- ALTERNATE 1**
REMOVE CORRIDOR AND DORM ROOM WALL BASE IN ITS ENTIRETY. PREPARE EXISTING FLOORING FOR NEW LVT FLOORING AND RUBBER BASE INSTALLATION. RE: GENERAL DEMO NOTE 8.
- ALTERNATE 2**
DEMOLITION AND INSTALLATION OF STAIR TREADS AND RISERS
- ALTERNATE 3**
DEMOLITION AND UPDATES TO LOUNGE AREAS INCLUDING, BUT NOT LIMITED TO, DOORS, FLOORING AND WALL BASE, CASEWORK, AND WALL PAINT.
- ALTERNATE 4**
VANITY AND MIRROR, M2, INSTALLATION IN RESTROOMS

GENERAL DEMO NOTES

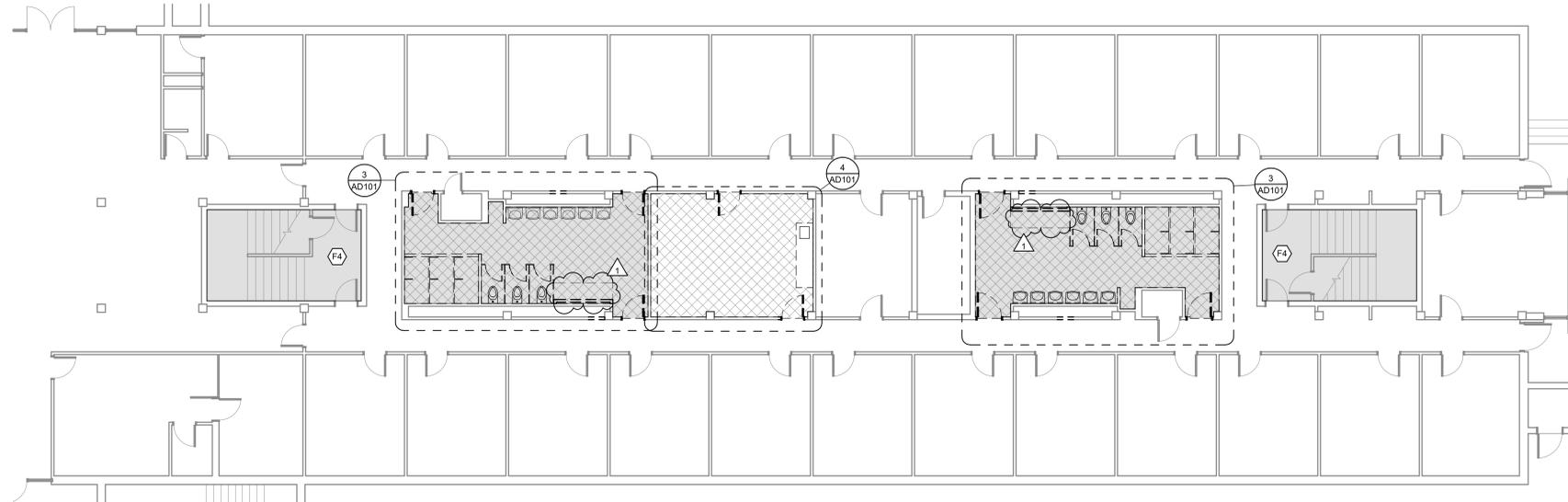
- RE: 3/AD101 FOR TYPICAL RESTROOM DEMO PLAN
- RE: 4/AD101 FOR TYPICAL LOUNGE DEMO PLAN
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT DIFFERENCES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT FOR RESOLUTION.
- WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
- CONTRACTOR TO PROVIDE APPROPRIATE PROTECTION BETWEEN AREAS OF CONSTRUCTION AND EXISTING SPACES.
- REFER TO MECHANICAL FOR MECHANICAL DEMOLITION INFORMATION.
- REFER TO PLUMBING FOR PLUMBING DEMOLITION INFORMATION.
- HAZARDOUS MATERIALS ARE SUSPECTED AT THE JOB SITE IN THE FORM OF ASBESTOS CONTAINING MATERIALS (ACM). THERE IS SUSPECT FLOOR TILE AND/OR MASTIC MATERIAL THAT MAY REQUIRE FURTHER IDENTIFICATION AND TESTING FOR CONTENT OF ASBESTOS. SHOULD THIS MATERIAL BE IDENTIFIED AS PRESENT, IT IS RECOMMENDED THAT PROPER ABATEMENT PROCEDURES BE FOLLOWED AS APPROPRIATE. CONTRACTOR TO PROVIDE ASBESTOS REVIEW PRIOR TO BEGINNING WORK. CONTRACTOR SHALL MAKE IDENTIFIED AREAS READY FOR NEW CONSTRUCTION AND APPLICATION OF NEW FINISHES ACCORDINGLY.

DEMO KEYNOTES

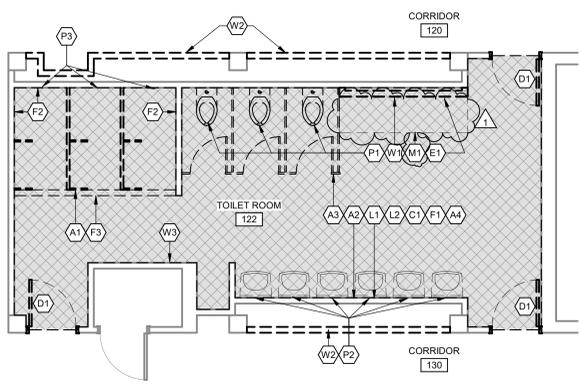
- ACCESSORIES**
- A1** REMOVE SHOWER STALLS IN THEIR ENTIRETY
 - A2** REMOVE WALL MIRRORS IN THEIR ENTIRETY
 - A3** REMOVE TOILET PARTITIONS IN THEIR ENTIRETY
 - A4** REMOVE AND SALVAGE TOILET ACCESSORIES: TOILET TISSUE DISPENSERS, SOAP DISPENSERS, WASTE RECEPTACLES, HAND DRYERS, SHOWER CURTAINS/RODS. CONTRACTOR TO PROTECT DURING DEMOLITION; COORDINATE STORAGE LOCATION WITH OWNER.
- CEILING**
- C1** REMOVE ACT CEILING IN ITS ENTIRETY
- DOOR**
- D1** REMOVE DOOR; HOLLOW METAL FRAME IS EXISTING TO REMAIN
- ELECTRICAL**
- E1** REMOVE ALL ELECTRICAL COMPONENTS AT VANITY ADJACENT TO TOILETS, INCLUDING BUT NOT LIMITED TO: LIGHT FIXTURE, RECEPTACLES, RACEWAYS, AND BOXES. CONTRACTOR SHALL REMOVE BRANCH CIRCUIT CONDUCTORS AND CONDUIT BACK TO THE FIRST AVAILABLE JUNCTION BOX, OR PROVIDE NEW JUNCTION BOX(ES) AS REQUIRED.
- FINISHES**
- F1** REMOVE FLOOR TILE AND FLOORING TRANSITION IN THEIR ENTIRETY; PREP FLOOR FOR NEW FLOOR TILE INSTALLATION
 - F2** REMOVE WALL FINISH DOWN TO BARE STUDS. PREPARE FOR NEW WALL FINISH.
 - F3** REMOVE TILE CURB. CONTRACTOR TO DETERMINE IF SELF LEVELER COMPOUND IS NEEDED TO ENSURE ALL FLOOR AREAS ARE LEVEL. RAISE FLOOR DRAINS IF NECESSARY.
 - F4** REMOVE STAIR TREADS/RISERS, LANDING FLOORING MATERIAL, RESILIENT STRINGER MATERIAL AND WALL BASE. PREPARE FOR NEW STAIR TREADS/RISERS, LANDING FLOORING MATERIAL, RESILIENT STRINGER MATERIAL AND WALL BASE.
- LIGHTING**
- L1** REMOVE WALL LIGHTING OVER MIRRORS IN ITS ENTIRETY
 - L2** REMOVE LAY-IN LIGHTING IN ITS ENTIRETY
 - L3** REMOVE AND SALVAGE LOUNGE LAY-IN LIGHTING. CONTRACTOR TO PROTECT DURING DEMOLITION.
- MILLWORK**
- M1** REMOVE MILLWORK IN ITS ENTIRETY
- PLUMBING FIXTURES**
- P1** REMOVE EXISTING WATERCLOSETS
 - P2** REMOVE EXISTING LAVATORIES
 - P3** REMOVE SHOWER FIXTURES
 - P4** REMOVE SINK
- WALLS**
- W1** REMOVE GYPSUM WALL BUMPOUT IN ITS ENTIRETY, INCLUDING MIRROR AND WOOD TRIM.
 - W2** REMOVE PART OF EXISTING CMU WALL FOR PLUMBING INSTALLATION. SAWCUT AND SUPPORT DURING CONSTRUCTION. RE: SA-101
 - W3** REMOVE CHASE ACCESS PANEL AND INFILL WALL. PREPARE INFILLED PORTION OF WALL FOR WALL TILE INSTALLATION.



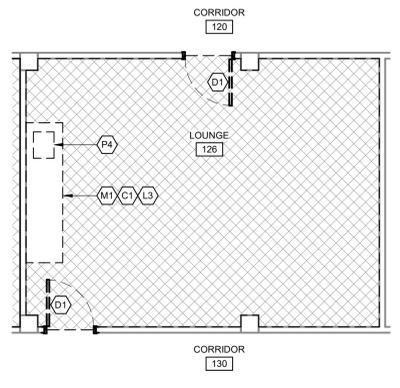
1 FIRST FLOOR DEMO PLAN - HARRILL
1/8" = 1'-0"



2 FIRST FLOOR DEMO PLAN - DOBSON
1/8" = 1'-0"



3 TYPICAL RESTROOM DEMO PLAN
1/4" = 1'-0"



4 TYPICAL LOUNGE DEMO PLAN
1/4" = 1'-0"

Project Number: P000000000
Printed: 1/12/2026 3:11:31 PM
C:\Users\design1\Documents\Revit\DOBSON-HARRILL Restroom Renovation_Arch_2023_1/12/2026 3:11:31 PM



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ISSUE DATE: 03/29/2023
CHECKED BY: EW
DRAWN BY: JD

SHEET NAME
**SECOND FLOOR DEMOLITION
PLAN**

SHEET NUMBER
AD102

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING DOOR TO BE DEMOLISHED. REFER DOOR SCHEDULE FOR EXISTING FRAMES TO REMAIN
- FLOOR TO BE DEMOLISHED
- CEILING TO BE DEMOLISHED
- KEYNOTE INDICATOR

ALTERNATES

ALTERNATE 1
REMOVE CORRIDOR AND DORM ROOM WALL BASE IN ITS ENTIRETY. PREPARE EXISTING FLOORING FOR NEW LVT FLOORING AND RUBBER BASE INSTALLATION. RE: GENERAL DEMO NOTE 8.

INSTALL NEW FLOORING ON TOP OF EXISTING FLOORING MATERIAL. LVT1 AND RUBBER BASE RB1, IN HARRILL AND DOBSON CORRIDORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. CONTRACTOR TO INSTALL APPROPRIATE FLOORING TRANSITION STRIP BETWEEN NEW LVT AND ADJACENT FLOOR FINISHES PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PAINT WALLS PT1.

ALTERNATE 2
DEMOLITION AND INSTALLATION OF STAIR TREADS AND RISERS

ALTERNATE 3
DEMOLITION AND UPDATES TO LOUNGE AREAS INCLUDING, BUT NOT LIMITED TO, DOORS, FLOORING AND WALL BASE, CASEWORK, AND WALL PAINT.

ALTERNATE 4
VANITY AND MIRROR, M2, INSTALLATION IN RESTROOMS

GENERAL DEMO NOTES

- RE: 3/AD101 FOR TYPICAL RESTROOM DEMO PLAN
- RE: 4/AD101 FOR TYPICAL LOUNGE DEMO PLAN
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT DIFFERENCES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT FOR RESOLUTION.
- WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
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DEMO KEYNOTES

ACCESSORIES

- A1** REMOVE SHOWER STALLS IN THEIR ENTIRETY
- A2** REMOVE WALL MIRRORS IN THEIR ENTIRETY
- A3** REMOVE TOILET PARTITIONS IN THEIR ENTIRETY
- A4** REMOVE AND SALVAGE TOILET ACCESSORIES: TOILET TISSUE DISPENSERS, SOAP DISPENSERS, WASTE RECEPTACLES, HAND DRYERS, SHOWER CURTAINS/RODS. CONTRACTOR TO PROTECT DURING DEMOLITION; COORDINATE STORAGE LOCATION WITH OWNER.

CEILING

- C1** REMOVE ACT CEILING IN ITS ENTIRETY

DOOR

- D1** REMOVE DOOR; HOLLOW METAL FRAME IS EXISTING TO REMAIN

ELECTRICAL

- E1** REMOVE ALL ELECTRICAL COMPONENTS AT VANITY ADJACENT TO TOILETS, INCLUDING BUT NOT LIMITED TO: LIGHT FIXTURE, RECEPTACLES, RACEWAYS, AND BOXES. CONTRACTOR SHALL REMOVE BRANCH CIRCUIT CONDUCTORS AND CONDUIT BACK TO THE FIRST AVAILABLE JUNCTION BOX, OR PROVIDE NEW JUNCTION BOX(ES) AS REQUIRED.

FINISHES

- F1** REMOVE FLOOR TILE AND FLOORING TRANSITION IN THEIR ENTIRETY; PREP FLOOR FOR NEW FLOOR TILE INSTALLATION
- F2** REMOVE WALL FINISH DOWN TO BARE STUDS. PREPARE FOR NEW WALL FINISH.
- F3** REMOVE TILED CURB. CONTRACTOR TO DETERMINE IF SELF LEVELER COMPOUND IS NEEDED TO ENSURE ALL FLOOR AREAS ARE LEVEL. RAISE FLOOR DRAINS IF NECESSARY.
- F4** REMOVE STAIR TREADRISERS, LANDING FLOORING MATERIAL, RESILIENT STRINGER MATERIAL AND WALL BASE. PREPARE FOR NEW STAIR TREADRISERS, LANDING FLOORING MATERIAL, RESILIENT STRINGER MATERIAL AND WALL BASE.

LIGHTING

- L1** REMOVE WALL LIGHTING OVER MIRRORS IN ITS ENTIRETY
- L2** REMOVE LAY-IN LIGHTING IN ITS ENTIRETY
- L3** REMOVE AND SALVAGE LOUNGE LAY-IN LIGHTING. CONTRACTOR TO PROTECT DURING DEMOLITION.

MILLWORK

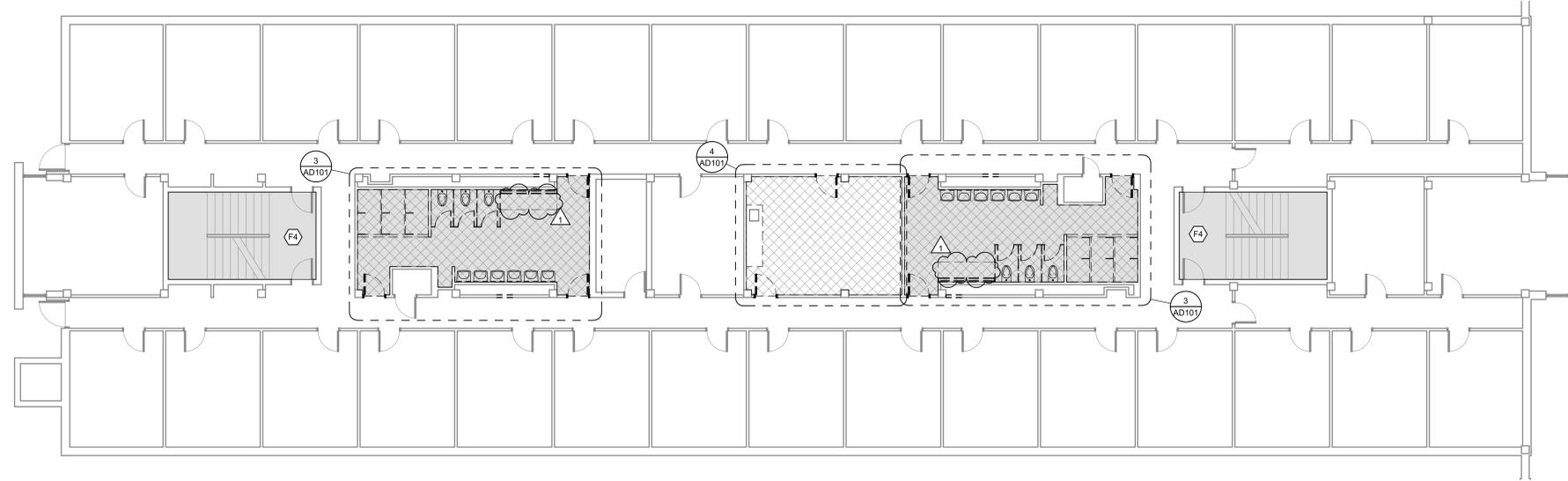
- M1** REMOVE MILLWORK IN ITS ENTIRETY

PLUMBING FIXTURES

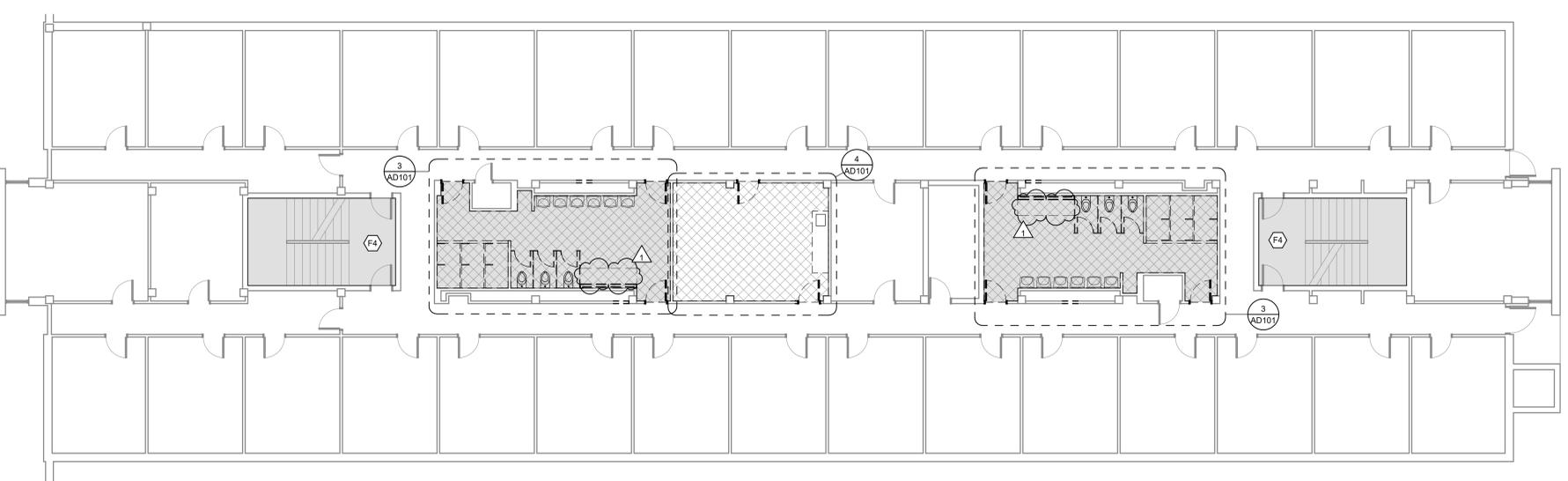
- P1** REMOVE EXISTING WATERCLOSETS
- P2** REMOVE EXISTING LAVATORIES
- P3** REMOVE SHOWER FIXTURES
- P4** REMOVE SINK

WALLS

- W1** REMOVE GYPSUM WALL BUMPOUT IN ITS ENTIRETY, INCLUDING MIRROR AND WOOD TRIM.
- W2** REMOVE PART OF EXISTING CMU WALL FOR PLUMBING INSTALLATION. SAWCUT AND SUPPORT DURING CONSTRUCTION. RE: SA-101
- W3** REMOVE CHASE ACCESS PANEL AND INFILL WALL. PREPARE INFILLED PORTION OF WALL FOR WALL TILE INSTALLATION.



1 SECOND FLOOR DEMO PLAN - HARRILL
1/8" = 1'-0"



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

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DAVID F. PHELPS, AIA
ARCHITECT OF RECORD

**HARRILL-DOBSON INTERIOR
UPGRADES**
NORTHEASTERN OKLAHOMA A&M COLLEGE
200 1ST STREET, NORTHEAST
MARIETTA, OK 74854

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ISSUES / REVISIONS	
03/29/2023	ISSUE FOR CONSTRUCTION
01/30/2026	ASI 2

ISSUE DATE: 03/29/2023
CHECKED BY: EW
DRAWN BY: JD

SHEET NAME
THIRD FLOOR DEMOLITION
PLAN

SHEET NUMBER
AD103

DEMOLITION PLAN LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- EXISTING DOOR TO BE DEMOLISHED. REFER DOOR SCHEDULE FOR EXISTING FRAMES TO REMAIN
- FLOOR TO BE DEMOLISHED
- CEILING TO BE DEMOLISHED
- KEYNOTE INDICATOR

ALTERNATES

ALTERNATE 1
REMOVE CORRIDOR AND DORM ROOM WALL BASE IN ITS ENTIRETY. PREPARE EXISTING FLOORING FOR NEW LVT FLOORING AND RUBBER BASE INSTALLATION. RE: GENERAL DEMO NOTE 8.

INSTALL NEW FLOORING ON TOP OF EXISTING FLOORING MATERIAL. LVT1 AND RUBBER BASE RB1, IN HARRILL AND DOBSON CORRIDORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. CONTRACTOR TO INSTALL APPROPRIATE FLOORING TRANSITION STRIP BETWEEN NEW LVT AND ADJACENT FLOOR FINISHES PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PAINT WALLS PT1.

ALTERNATE 2
DEMOLITION AND INSTALLATION OF STAIR TREADS AND RISERS

ALTERNATE 3
DEMOLITION AND UPDATES TO LOUNGE AREAS INCLUDING, BUT NOT LIMITED TO, DOORS, FLOORING AND WALL BASE, CASEWORK, AND WALL PAINT.

ALTERNATE 4
VANITY AND MIRROR, M2, INSTALLATION IN RESTROOMS

GENERAL DEMO NOTES

- RE: 3/AD101 FOR TYPICAL RESTROOM DEMO PLAN
- RE: 4/AD101 FOR TYPICAL LOUNGE DEMO PLAN
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT DIFFERENCES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT FOR RESOLUTION.
- WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
- CONTRACTOR TO PROVIDE APPROPRIATE PROTECTION BETWEEN AREAS OF CONSTRUCTION AND EXISTING SPACES.
- REFER TO MECHANICAL FOR MECHANICAL DEMOLITION INFORMATION.
- REFER TO PLUMBING FOR PLUMBING DEMOLITION INFORMATION.
- HAZARDOUS MATERIALS ARE SUSPECTED AT THE JOB SITE IN THE FORM OF ASBESTOS CONTAINING MATERIALS (ACM). THERE IS SUSPECT FLOOR TILE AND/OR MASTIC MATERIAL THAT MAY REQUIRE FURTHER IDENTIFICATION AND TESTING FOR CONTENT OF ASBESTOS. SHOULD THIS MATERIAL BE IDENTIFIED AS PRESENT, IT IS RECOMMENDED THAT PROPER ABATEMENT PROCEDURES BE FOLLOWED AS APPROPRIATE. CONTRACTOR TO PROVIDE ASBESTOS REVIEW PRIOR TO BEGINNING WORK. CONTRACTOR SHALL MAKE IDENTIFIED AREAS READY FOR NEW CONSTRUCTION AND APPLICATION OF NEW FINISHES ACCORDINGLY.

DEMO KEYNOTES

ACCESSORIES
A1 REMOVE SHOWER STALLS IN THEIR ENTIRETY
A2 REMOVE WALL MIRRORS IN THEIR ENTIRETY
A3 REMOVE TOILET PARTITIONS IN THEIR ENTIRETY
A4 REMOVE AND SALVAGE TOILET ACCESSORIES: TOILET TISSUE DISPENSERS, SOAP DISPENSERS, WASTE RECEPTACLES, HAND DRYERS, SHOWER CURTAINS/RODS. CONTRACTOR TO PROTECT DURING DEMOLITION; COORDINATE STORAGE LOCATION WITH OWNER.

CEILING
C1 REMOVE ACT CEILING IN ITS ENTIRETY

DOOR
D1 REMOVE DOOR; HOLLOW METAL FRAME IS EXISTING TO REMAIN

ELECTRICAL
E1 REMOVE ALL ELECTRICAL COMPONENTS AT VANITY ADJACENT TO TOILETS, INCLUDING BUT NOT LIMITED TO: LIGHT FIXTURE, RECEPTACLES, RACEWAYS, AND BOXES. CONTRACTOR SHALL REMOVE BRANCH CIRCUIT CONDUCTORS AND CONDUIT BACK TO THE FIRST AVAILABLE JUNCTION BOX, OR PROVIDE NEW JUNCTION BOX(ES) AS REQUIRED.

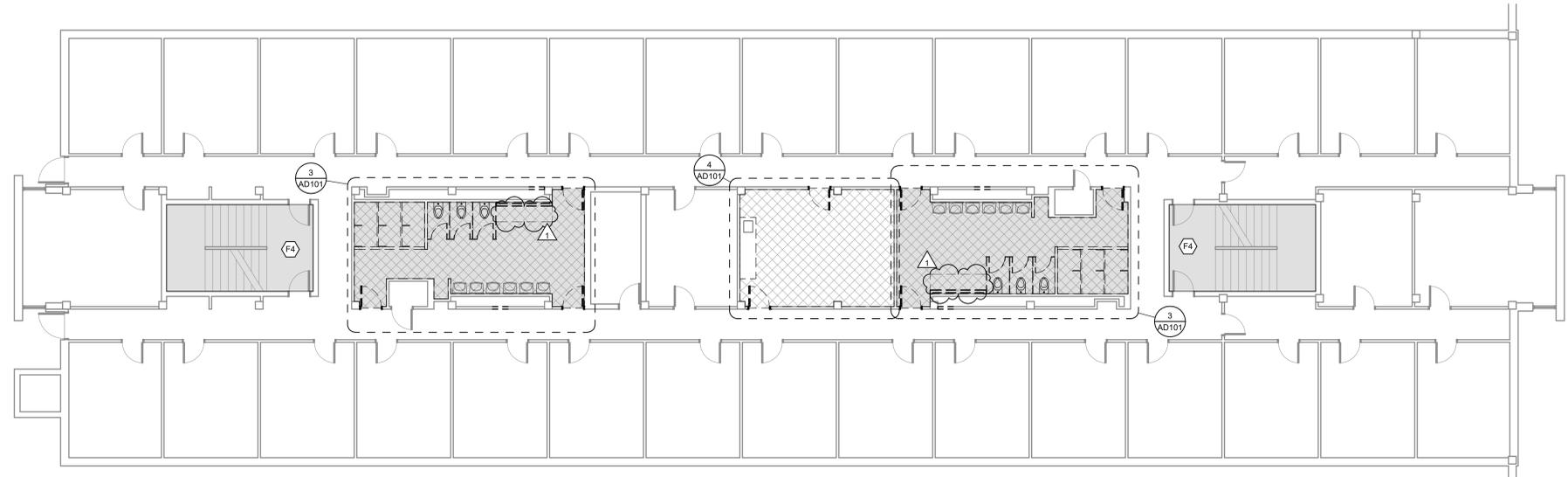
FINISHES
F1 REMOVE FLOOR TILE AND FLOORING TRANSITION IN THEIR ENTIRETY; PREP FLOOR FOR NEW FLOOR TILE INSTALLATION
F2 REMOVE WALL FINISH DOWN TO BARE STUDS. PREPARE FOR NEW WALL FINISH.
F3 REMOVE TILE CURB. CONTRACTOR TO DETERMINE IF SELF LEVELER COMPOUND IS NEEDED TO ENSURE ALL FLOOR AREAS ARE LEVEL. RAISE FLOOR DRAINS IF NECESSARY.
F4 REMOVE STAIR TREADRISERS, LANDING FLOORING MATERIAL AND WALL BASE. PREPARE FOR NEW STAIR TREADRISERS, LANDING FLOORING MATERIAL, RESILIENT STRINGER MATERIAL AND WALL BASE.

LIGHTING
L1 REMOVE WALL LIGHTING OVER MIRRORS IN ITS ENTIRETY
L2 REMOVE LAY-IN LIGHTING IN ITS ENTIRETY
L3 REMOVE AND SALVAGE LOUNGE LAY-IN LIGHTING. CONTRACTOR TO PROTECT DURING DEMOLITION.

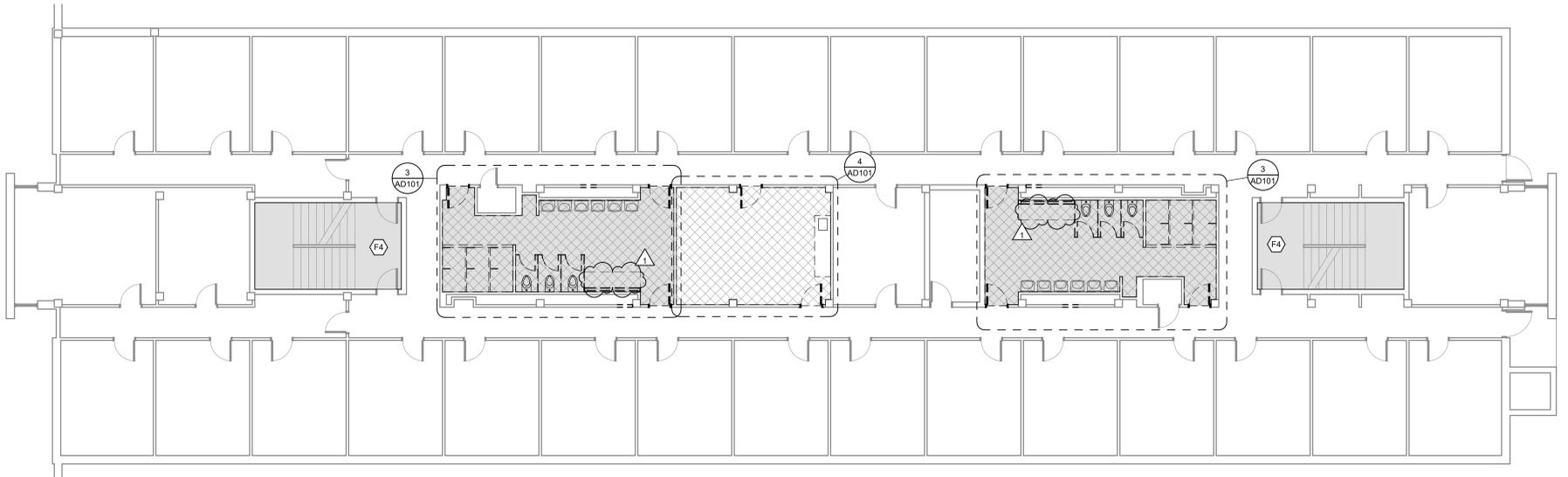
MILLWORK
M1 REMOVE MILLWORK IN ITS ENTIRETY

PLUMBING FIXTURES
P1 REMOVE EXISTING WATERCLOSETS
P2 REMOVE EXISTING LAVATORIES
P3 REMOVE SHOWER FIXTURES
P4 REMOVE SINK

WALLS
W1 REMOVE GYPSUM WALL BUMPOUT IN ITS ENTIRETY, INCLUDING MIRROR AND WOOD TRIM.
W2 REMOVE PART OF EXISTING CMU WALL FOR PLUMBING INSTALLATION. SAWCUT AND SUPPORT DURING CONSTRUCTION. RE: SA-101
W3 REMOVE CHASE ACCESS PANEL AND INFILL WALL. PREPARE INFILLED PORTION OF WALL FOR WALL TILE INSTALLATION.



2 THIRD FLOOR DEMO PLAN - HARRILL
1/8" = 1'-0"



1 THIRD FLOOR DEMO PLAN - DOBSON
1/8" = 1'-0"

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TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	RESPONSIBILITY
AD1	PLUMBING ACCESS DOOR	NYSTROM	24" X 24", PAINTED TO MATCH ADJACENT FINISH	CPCI
M1	CHANNEL-FRAMED MIRROR/SHELF	GAMCO	G-C-MIRROR, 48X36; INCLUDE ATTACHED SUPERSUPPORT BRACKET ON MIRROR	CPCI
M2	TEMPERED GLASS WITH PENCIL EDGE, INSTALL WITH J CHANNEL AND CONSTRUCTION ADHESIVE AS REQUIRED		72" W X 36" H, RE: INTERIOR ELEVATIONS	CPCI
PS1	PLASTIC SHOWER STALL	SCRANTON	SOLID PLASTIC SHOWER STALLS. COLOR: SIDE AND FRONT PANELS TO BE SHALE. BACK PANEL TO BE LINEN. DRESSING COMPARTMENT PANELS TO BE SHALE. RE: 5/A-603. INSTALL WITH SHOWER CURTAIN AND SHOWER CURTAIN RINGS, COAT HOOK, RH1, AND FLOOR MOUNTED SEAT, ST1, WHERE INDICATED. INSTALL WITH PLASTIC PLASTER SHOES. CONTRACTOR TO ENSURE WATERPROOFING OF SHOWER PARTITION INSTALLATION WITH SHOWER BASE	CPCI
RH1	ROBE HOOK	SCRANTON	ROBE HOOKS, INCLUDED WITH SHOWER PARTITION ACCESSORIES. INSTALL AT 48" AFF	CPCI
SB1	SHOWER BASE	TBD		CPCI
ST1	SHOWER SEAT	SCRANTON	FLOOR MOUNTED SHOWER SEAT, INCLUDED WITH SHOWER PARTITION ACCESSORIES	CPCI
TP1	TOILET PARTITIONS	SCRANTON	HINY HIDERS SOLID PLASTIC, FLOOR MOUNTED, OVERHEAD BRACED, COLOR: SHALE	CPCI

MARK	DESCRIPTION	ROOM IDENTIFIER AND FINISH INDICATOR
BASE	JOHNSONITE, TRADITIONAL WALL BASE, 4" HIGH CONTINUOUS ROLL, COLOR: 20 CHARCOAL	ROOM NAME: 101 ROOM NUMBER: 101 WALL FINISH: PT1, RB1, RST1, RFS1, RPT1 NOTES: 2, 3
RESILIENT FLOORING	SHAW CONTRACT, COVE, COLOR: PLASTER, SIZE: 9" X 48"	KEYNOTE INDICATOR
LV1	TARGETT/JOHNSONITE, 24" X 24" RUBBER TILE, COLOR: 20 CHARCOAL	TRANSITION INDICATOR
RFS1	TARGETT/JOHNSONITE, RUBBER STAIR STRINGER, COLOR: 20 CHARCOAL	T1, LV1, ALT1
RST1	TARGETT/JOHNSONITE, ANGLED RUBBER STAIR TREAD WITH INTEGRATED RISER FOR THE VISUALLY IMPAIRED, GRIT TAPE, TEXTURE: RAISED ROUND, COLOR: 20 CHARCOAL	ALT2, NOT IN SCOPE
THRESHOLD/TRANSITION	DAL TILE, MARBLE THRESHOLD, DOUBLE HOLLYWOOD BEVEL, COLOR: CARRARA WHITE MARBLE M701-POLISHED, SIZE: 4"	
MTH1	TILE, MARBLE THRESHOLD, DOUBLE HOLLYWOOD BEVEL, COLOR: CARRARA WHITE MARBLE M701-POLISHED, SIZE: 4"	
T1	CROSSVILLE, SHADES 2.0, COLOR: FOG UPS, SIZE: 12" X 24", INSTALLATION: TO BE DETERMINED BY OWNER	
T2	CROSSVILLE, SHADES 2.0, COLOR: HAZE UPS, SIZE: 12" X 24", INSTALLATION: TO BE DETERMINED BY OWNER	
CEILING TILE	USG, SHEETROCK BRAND LAY-IN GYPSUM CEILING PANELS 3260, 2X2, COLOR: WHITE, GRID: DXLA, GRID COLOR: WHITE	
MILLWORK	CORIAN, COLOR: LINEN	
PL1	WILSONART, COLOR: D96-60 SHADOW, MATTE FINISH	
PL2	CORIAN, COLOR: ARTIST'S CANVAS	
PAINT	SHERWIN WILLIAMS, COLOR: SW 9165 GOSSAMER VEIL, COMMENTS: GENERAL WALL PAINT	
PT1	SHERWIN WILLIAMS, COLOR: SW 7069 IRON ORE, COMMENTS: TRIM AND DOOR PAINT	

NUMBER	COMMENT
1	INSTALL MILLWORK SO THAT NEW SINK ALIGNS WITH EXISTING PLUMBING
2	NOT USED
3	RE: ALTERNATE 1
4	INSTALL NEW STAIR TREADS/RISERS, RST1, AND RUBBER FLOORING, RFS1, AT ALL STAIR LANDINGS. INSTALL NEW RUBBER STAIR STRINGER, RFS1, AT ALL STRINGER LOCATIONS. INSTALL NEW RUBBER BASE, RB1, USING PRE-FORMED RUBBER BASE AT ALL INSIDE AND OUTSIDE CORNERS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PAINT WALLS PT1.
5	STEVENS ADVANTAGE, PLASTIC LAMINATE CABINETS (PL2) AND COUNTERTOP (PL1)
6	INSTALL RUBBER BASE, RB1, AT GYPSUM WALL FURR OUT ONLY
7	INSTALL WALL TILE, T2, FROM FLOOR TO CEILING U.O.
8	INSTALL MARBLE THRESHOLD, MTH1, AT RESTROOM DOORS
9	RE: ALTERNATE 2
10	RE: ALTERNATE 3
11	RE: ALTERNATE 4

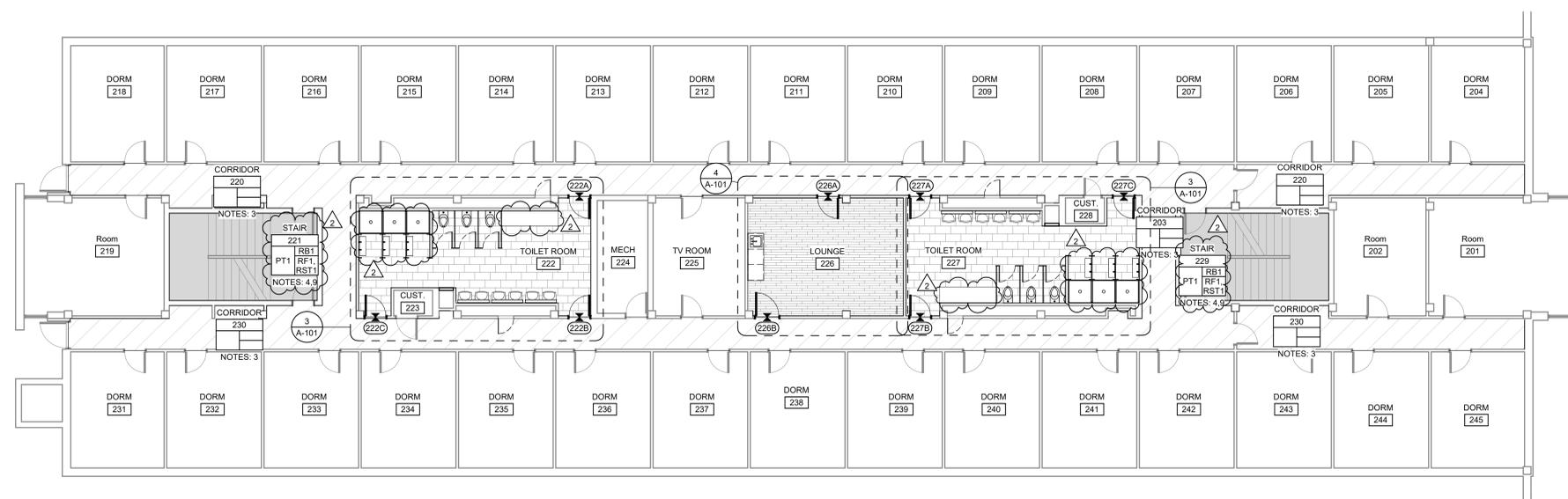
ALTERNATE	DESCRIPTION
ALTERNATE 1	REMOVE CORRIDOR AND DORM ROOM WALL BASE IN ITS ENTIRETY. PREPARE EXISTING FLOORING FOR NEW LVT FLOORING AND RUBBER BASE INSTALLATION. RE: GENERAL DEMO NOTE 8.
ALTERNATE 2	INSTALL NEW FLOORING ON TOP OF EXISTING FLOORING MATERIAL, LV1, AND RUBBER BASE, RB1, IN HARRILL AND DOBSON CORRIDORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. CONTRACTOR TO INSTALL APPROPRIATE FLOORING TRANSITION STRIP BETWEEN NEW LVT AND ADJACENT FLOOR FINISHES PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PAINT WALLS PT1.
ALTERNATE 3	DEMOLITION AND INSTALLATION OF STAIR TREADS AND RISERS
ALTERNATE 4	DEMOLITION AND UPDATES TO LOUNGE AREAS INCLUDING, BUT NOT LIMITED TO, DOORS, FLOORING AND WALL BASE, CASEWORK, AND WALL PAINT.
ALTERNATE 5	VANITY AND MIRROR, M2, INSTALLATION IN RESTROOMS

ISSUES / REVISIONS	DATE	DESCRIPTION
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2	04/06/2023	AS1
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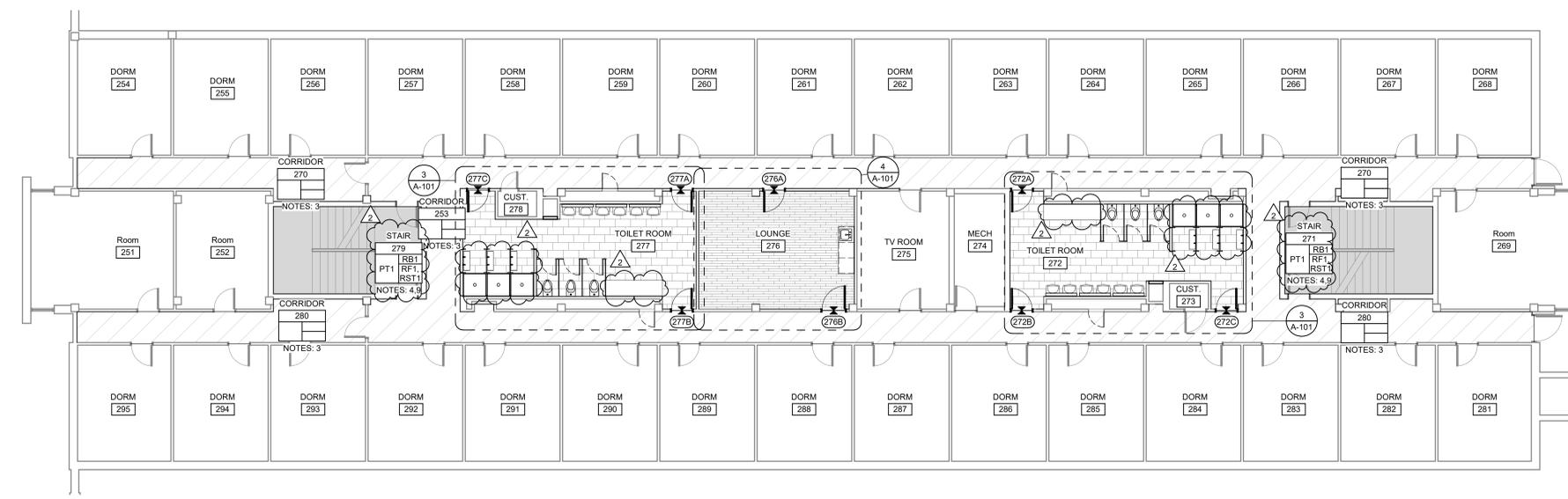
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SHEET NAME:
SECOND FLOOR AND FINISH PLAN

SHEET NUMBER:
A-102



1 SECOND FLOOR PLAN - HARRILL
1/8" = 1'-0"



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

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ARCHITECT OF RECORD

HARRILL-DOBSON INTERIOR
UPGRADES
NORTHEASTERN OKLAHOMA A&M COLLEGE
200 STREET NORTH EAST
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SPECIALTY AND EQUIPMENT SCHEDULE				
TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL	RESPONSIBILITY
AD1	PLUMBING ACCESS DOOR	NYSTROM	24" X 24", PAINTED TO MATCH ADJACENT FINISH	CPCI
M1	CHANNEL-FRAMED MIRROR/SHELF	GAMCO	G-C-MIRROR, 48X36, INCLUDE ATTACHED SUPER-SUPPORT BRACKET	CPCI
M2	TEMPERED GLASS WITH PENCIL EDGE, INSTALL WITH J CHANNEL AND CONSTRUCTION ADHESIVE AS REQUIRED		72"W X 36"H, RE. INTERIOR ELEVATIONS	CPCI
PS1	PLASTIC SHOWER STALL	SCRANTON	SOLID PLASTIC SHOWER STALLS. COLOR: SIDE AND FRONT PANELS TO BE SHALE. BACK PANEL TO BE LINEN. DRESSING COMPARTMENT PANELS TO BE SHALE. RE: 5/A-603. INSTALL WITH SHOWER CURTAIN AND SHOWER CURTAIN RINGS. COAT HOOK, RH1, AND FLOOR MOUNTED SEAT, ST1, WHERE INDICATED. INSTALL WITH PLASTIC PLASTER SHOES. CONTRACTOR TO ENSURE WATERPROOFING OF SHOWER PARTITION INSTALLATION WITH SHOWER BASE.	CPCI
RH1	ROBE HOOK	SCRANTON	ROBE HOOKS, INCLUDED WITH SHOWER PARTITION ACCESSORIES. INSTALL AT 48" AFF	CPCI
SB1	SHOWER BASE	TBD		CPCI
ST1	SHOWER SEAT	SCRANTON	FLOOR MOUNTED SHOWER SEAT, INCLUDED WITH SHOWER PARTITION ACCESSORIES	CPCI
TP1	TOILET PARTITIONS	SCRANTON	HINY HIDERS SOLID PLASTIC, FLOOR MOUNTED, OVERHEAD BRACED, COLOR: SHALE	CPCI

FINISH MATERIAL LEGEND	
MARK	DESCRIPTION
RB1	JOHNSONITE, TRADITIONAL WALL BASE, 4" HIGH CONTINUOUS ROLL, COLOR: 20 CHARCOAL
LV1	SHAW CONTRACT, COVE, COLOR: PLASTER, SIZE: 9" X 48"
RF1	TARKETT/JOHNSONITE, 24" X 24" RUBBER TILE, COLOR: 20 CHARCOAL
RSS1	TARKETT/JOHNSONITE, RUBBER STAIR STRINGER, COLOR: 20 CHARCOAL
RST1	TARKETT/JOHNSONITE, ANGLED RUBBER STAIR TREAD WITH INTEGRATED RISER FOR THE VISUALLY IMPAIRED, GRIT TAPE, TEXTURE: RAISED ROUND, COLOR: 20 CHARCOAL
MTH1	DAL TILE, MARBLE THRESHOLD, DOUBLE HOLLOWWOOD BEVEL, COLOR: CARRARA WHITE MARBLE M701-POLISHED, SIZE: 4"
T1	CROSSVILLE, SHADES 2.0, COLOR: FOG UPS, SIZE: 12" X 24", INSTALLATION: TO BE DETERMINED BY OWNER
T2	CROSSVILLE, SHADES 2.0, COLOR: HAZE UPS, SIZE: 12" X 24", INSTALLATION: TO BE DETERMINED BY OWNER
CT1	USG, SHEETROCK BRAND LAY-IN GYPSUM CEILING PANELS 3260, 2X2, COLOR: WHITE, GRID: DXLA, GRID COLOR: WHITE
PL1	CORIAN, COLOR: LINEN
PL2	WILSONART, COLOR: D96-60 SHADOW, MATTE FINISH
SS1	CORIAN, COLOR: ARTISTA CANVAS
PT1	SHERWIN WILLIAMS, COLOR: SW 9165 GOSSAMER VEIL, COMMENTS: GENERAL WALL PAINT
PT2	SHERWIN WILLIAMS, COLOR: SW 7069 IRON ORE, COMMENTS: TRIM AND DOOR PAINT

GENERAL FINISH NOTES	
A.	HAZARDOUS MATERIALS ARE SUSPECTED AT THE JOB SITE IN THE FORM OF ASBESTOS CONTAINING MATERIALS (ACM). THERE IS SUSPECT FLOOR TILE AND/OR MASTIC MATERIAL THAT MAY REQUIRE FURTHER IDENTIFICATION AND TESTING FOR CONTENT OF ASBESTOS. SHOULD THIS MATERIAL BE IDENTIFIED AS PRESENT, IT IS RECOMMENDED THAT PROPER ABATEMENT PROCEDURES BE FOLLOWED AS APPROPRIATE. CONTRACTOR TO PROVIDE ASBESTOS REVIEW PRIOR TO BEGINNING WORK. CONTRACTOR SHALL MAKE IDENTIFIED AREAS READY FOR NEW CONSTRUCTION AND APPLICATION OF NEW FINISHES ACCORDINGLY.
B.	RE: 3/A-101 FOR TYPICAL RESTROOM FLOOR AND FINISH PLAN.
C.	RE: 4/A-101 FOR TYPICAL LOUNGE FLOOR AND FINISH PLAN. MATERIAL PATTERNS ON DRAWINGS DO NOT INDICATE PRODUCT INSTALLATION; IF UNCLEAR IN NOTES OR ON FINISH PLAN, VERIFY FLOOR PATTERN DIRECTION PRIOR TO INSTALLATION.
E.	CASEWORK TO BE INSTALLED BEFORE RUBBER BASE. COORDINATE INSTALLATION OF RUBBER BASE AT WALLS AND INSTALL AROUND CASEWORK.
F.	CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS.
G.	PAINT ALL INTERIOR SOFFITS PT1.
H.	PAINT DOORS AND FRAMES PT2.
I.	FLOORING TRANSITIONS TO BE INSTALLED UNDER CENTER OF DOORS, UNLESS NOTED OTHERWISE.
J.	INSTALL NEW WALL TILE OVER EXISTING GLAZED CMU BLOCK UNLESS NOTED OTHERWISE. CONTRACTOR TO USE ADHESIVE/MORTAR APPROPRIATE FOR THIS CONDITION.
K.	INSTALL NEW LVT FLOORING OVER EXISTING FLOORING UNLESS NOTED OTHERWISE.
L.	DO NOT INSTALL TILE BEHIND SHOWER STALLS, PSS1; PAINT WALL ABOVE SHOWER STALLS PT1.

FLOOR PLAN LEGEND	
	EXISTING WALLS AND PARTITIONS
	NEW WALLS AND PARTITIONS
	DOOR IDENTIFIER
	ROOM NAME
	ROOM IDENTIFIER
	WALL TYPE INDICATOR

FINISH COMMENTS	
NUMBER	COMMENT
1	INSTALL MILLWORK SO THAT NEW SINK ALIGNS WITH EXISTING PLUMBING
2	NOT USED
3	RE: ALTERNATE 1
4	INSTALL NEW STAIR TREAD/RISERS, RST1, AND RUBBER FLOORING, RF1, AT ALL STAIR LANDINGS. INSTALL NEW RUBBER STAIR STRINGER, RSS1, AT ALL STRINGER LOCATIONS. INSTALL NEW RUBBER BASE, RB1, USING PRE-FORMED RUBBER BASE AT ALL INSIDE AND OUTSIDE CORNERS PER MANUFACTURERS WRITTEN INSTRUCTIONS. PAINT WALLS PT1.
5	STEVEN'S ADVANTAGE, PLASTIC LAMINATE CABINETS (PL2) AND COUNTERTOP (PL1)
6	INSTALL RUBBER BASE, RB1, AT GYPSUM WALL FLUR OUT ONLY.
7	INSTALL WALL TILE, T2, FROM FLOOR TO CEILING U.N.O.
8	INSTALL MARBLE THRESHOLD, MTH1, AT RESTROOM DOORS
9	RE: ALTERNATE 2
10	RE: ALTERNATE 3
11	RE: ALTERNATE 4

ALTERNATES	
ALTERNATE 1	REMOVE CORRIDOR AND DORM ROOM WALL BASE IN ITS ENTIRETY, PREPARE EXISTING FLOORING FOR NEW LVT FLOORING AND RUBBER BASE INSTALLATION. RE: GENERAL DEMO NOTE 8.
ALTERNATE 2	INSTALL NEW FLOORING ON TOP OF EXISTING FLOORING MATERIAL, LVT1, AND RUBBER BASE, RB1, IN HARRILL AND DOBSON CORRIDORS PER MANUFACTURERS WRITTEN INSTRUCTIONS. CONTRACTOR TO INSTALL APPROPRIATE FLOORING TRANSITION STRIP BETWEEN NEW LVT AND ADJACENT FLOOR FINISHES PER MANUFACTURERS WRITTEN INSTRUCTIONS. PAINT WALLS PT1.
ALTERNATE 3	DEMOLITION AND INSTALLATION OF STAIR TREADS AND RISERS
ALTERNATE 4	DEMOLITION AND UPDATES TO LOUNGE AREAS INCLUDING, BUT NOT LIMITED TO, DOORS, FLOORING AND WALL BASE, CASEWORK, AND WALL PAINT.
ALTERNATE 5	VANITY AND MIRROR, M2, INSTALLATION IN RESTROOMS

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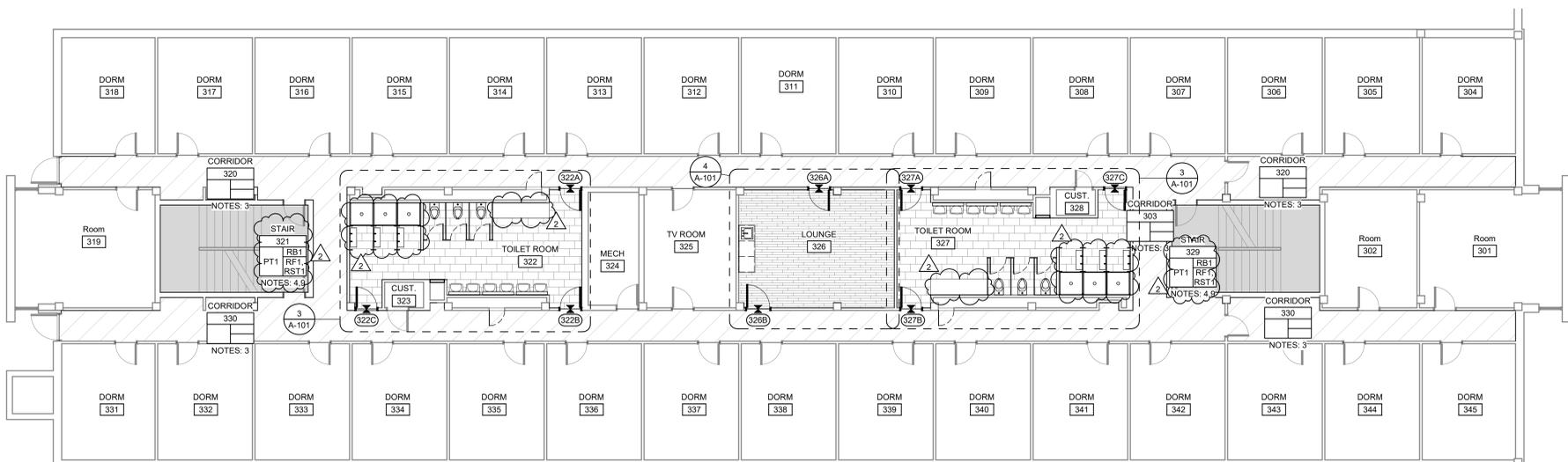
DAVID F. PHELPS, AIA
ARCHITECT OF RECORD

HARRILL-DOBSON INTERIOR
UPGRADES
NORTHEASTERN OKLAHOMA A&M COLLEGE
200 STREET NORTHEAST
HARRILL, OK, 74344

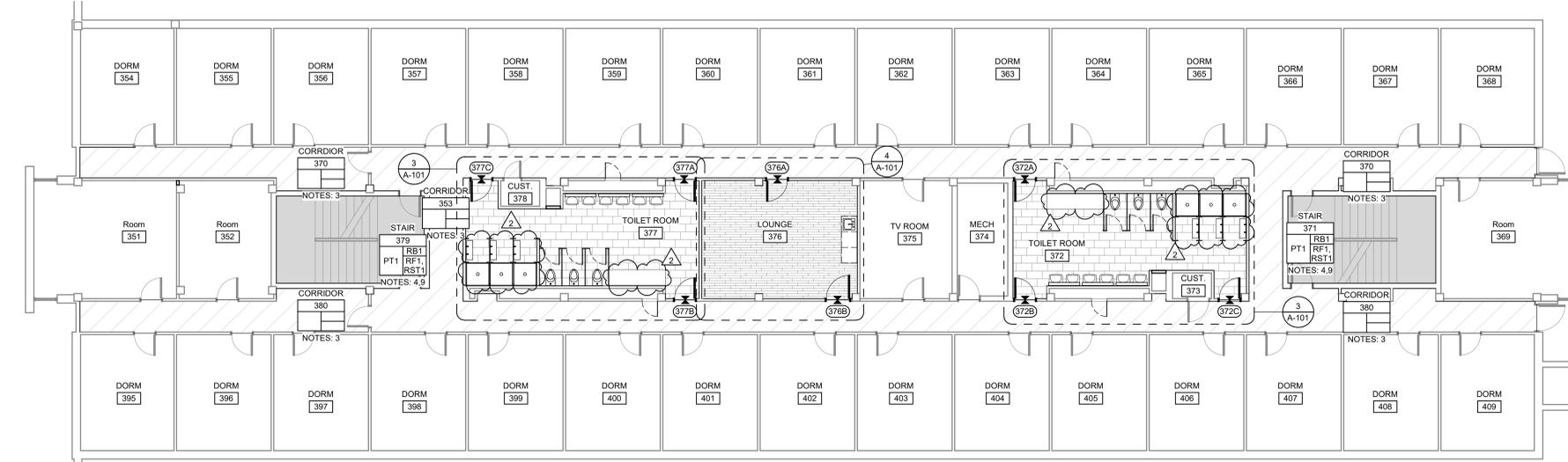
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SHEET NAME:
THIRD FLOOR AND FINISH PLAN

SHEET NUMBER
A-103



1 THIRD FLOOR PLAN - HARRILL
1/8" = 1'-0"



2 THIRD FLOOR PLAN - DOBSON
1/8" = 1'-0"

Project Number: P00020.0000
Printed: 1/12/2026 3:11:43 PM
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CYNERGY
810 S CINCINNATI AVE, STE 200
TULSA, OK 74119
918.677.6000

CEILING PLAN LEGEND

- EXISTING SUSPENDED CEILING
- NEW 2' x 2' SUSPENDED CEILING
- NEW GYPSUM CEILING
- NEW LAY-IN LIGHT FIXTURE
- NEW RECESSED LIGHT FIXTURE
- NEW VANITY LIGHT FIXTURE
- OCCUPANCY SENSOR
- EMERGENCY LIGHT
- MATERIAL CEILING INDICATOR HEIGHT
- ROOM NAME
ROOM IDENTIFIER
- NEW EXHAUST GRILLE; RE: MECH
- PARTITION TYPE A, EXTENDS TO BOTTOM OF CEILING GRID; RE: FLOOR PLANS FOR LOCATIONS

GENERAL RCP NOTES

- A. RE: 3/A-111 FOR TYPICAL RESTROOM REFLECTED CEILING PLAN.
- B. MATCH EXISTING HEIGHT WHEN INSTALLING NEW CEILING TILES AND GRID, UNLESS NOTED OTHERWISE.
- C. CEILING MOUNTED FIXTURES TO BE CENTERED IN TILE UNLESS NOTED OTHERWISE.
- D. PROVIDE EXPOSED TEES AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES AND DIFFUSERS, ETC.
- E. MAINTAIN 3" MINIMUM WIDTH FOR CEILING TILE AT ROOM PERIMETER.
- F. REFER TO MECHANICAL SHEETS FOR MECHANICAL INFORMATION.
- G. PAINT ALL INTERIOR SOFFITS PT1.

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**HARRILL-DOBSON INTERIOR
UPGRADES**
NORTHEASTERN OKLAHOMA A&M COLLEGE
200 1ST STREET, NORTHEAST
MARIETTA, OK 74854

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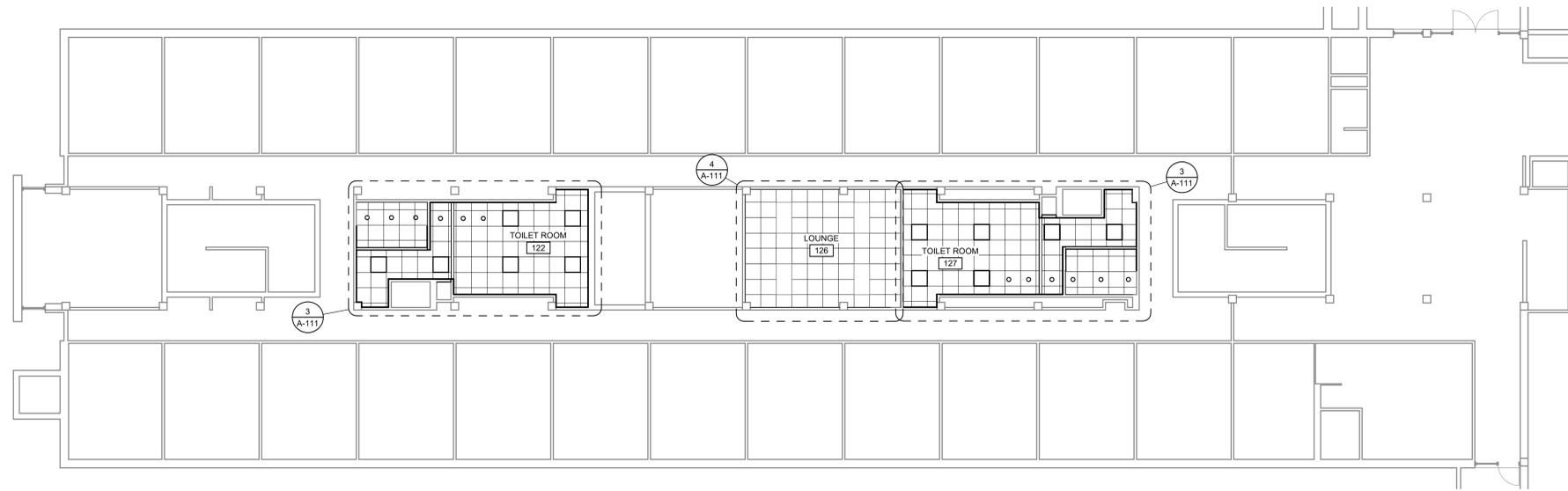
ISSUES / REVISIONS

DATE	DESCRIPTION
03/29/2023	ISSUE FOR CONSTRUCTION

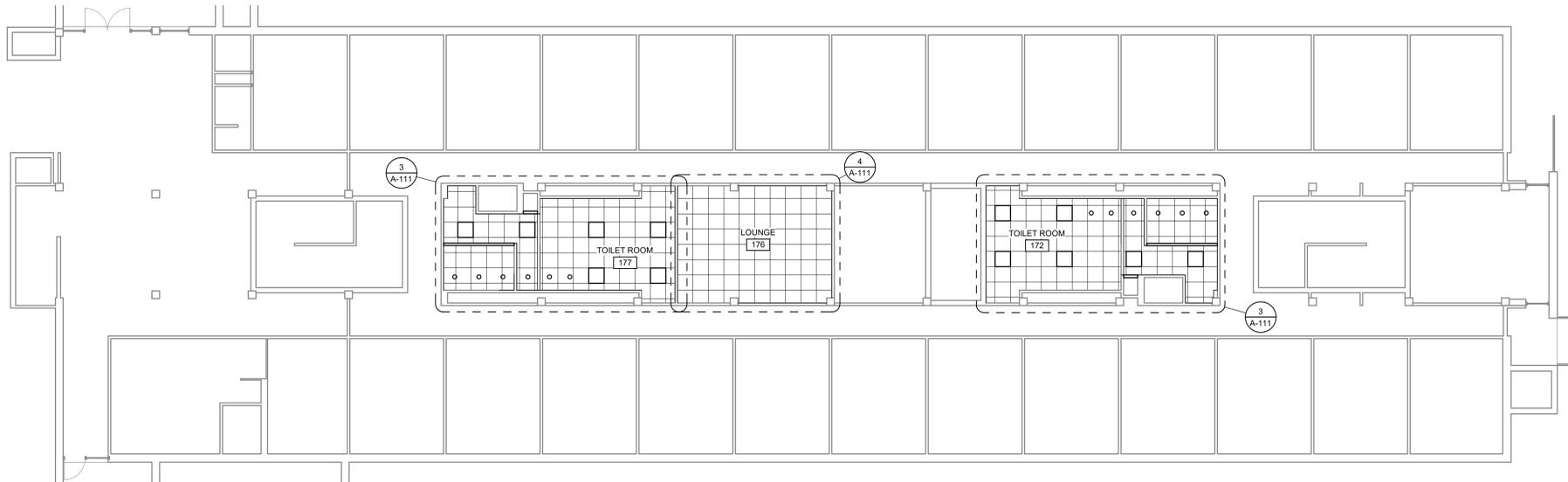
ISSUE DATE: 03/29/2023
CHECKED BY: EFW
DRAWN BY: JD

SHEET NAME
FIRST FLOOR REFLECTED
CEILING PLAN

SHEET NUMBER
A-111



1 FIRST FLOOR RCP - HARRILL
1/8" = 1'-0"



2 FIRST FLOOR RCP - DOBSON
1/8" = 1'-0"

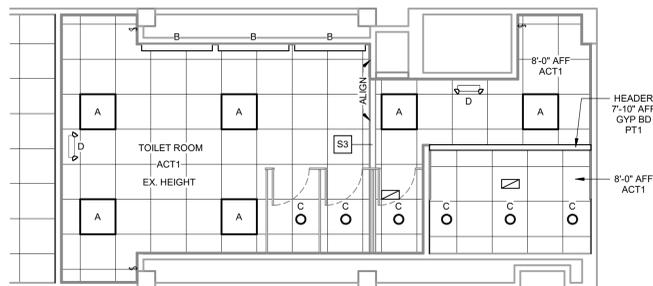
LIGHTING (AS NOTED BELOW OR APPROVED EQUALS)

- A: 2x2' LED PANEL - ATLAS LIGHTING: FAELP 22 LED U
- B: VANITY LIGHT - METALUX: 4BCLED LD4 20SL F UNV L840 CD 1
- C: RECESSED DOWNLIGHT - HALO: PR6 FS12 D010 HB128APK PR6M 12 MD 8FS MW (1500LM, 4000K)
- D: EMERGENCY LIGHT - MULE LIGHTING: SQ-LED W SD
- S: LIGHT SWITCH (MATCH TYPE TO THAT OF EXISTING) - 20A, 120V TOGGLE SWITCH, GRAY FINISH WITH STAINLESS STEEL WALL PLATE.

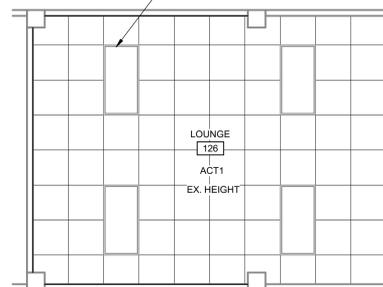
GENERAL NOTES

- 1. CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT FOR THAT ROOM.
- 2. CONNECT EMERGENCY LIGHTING (TYPE D) TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT FOR THAT ROOM.
- 3. REUSE EXISTING WALL MOUNTED LIGHT FIXTURE ROUGH-IN LOCATIONS FOR NEW (TYPE B).
- 4. REUSE EXISTING LIGHT SWITCH ROUGH-IN LOCATIONS FOR NEW. MATCH SWITCHING SCHEME TO THAT OF EXISTING.
- 5. NO EXPOSED CONDUIT WILL BE ALLOWED.

REINSTALL LAY-IN LIGHTING IN EXISTING LOCATIONS. LIGHTING LOCATION SHOWN IN DRAWINGS ARE APPROXIMATE.



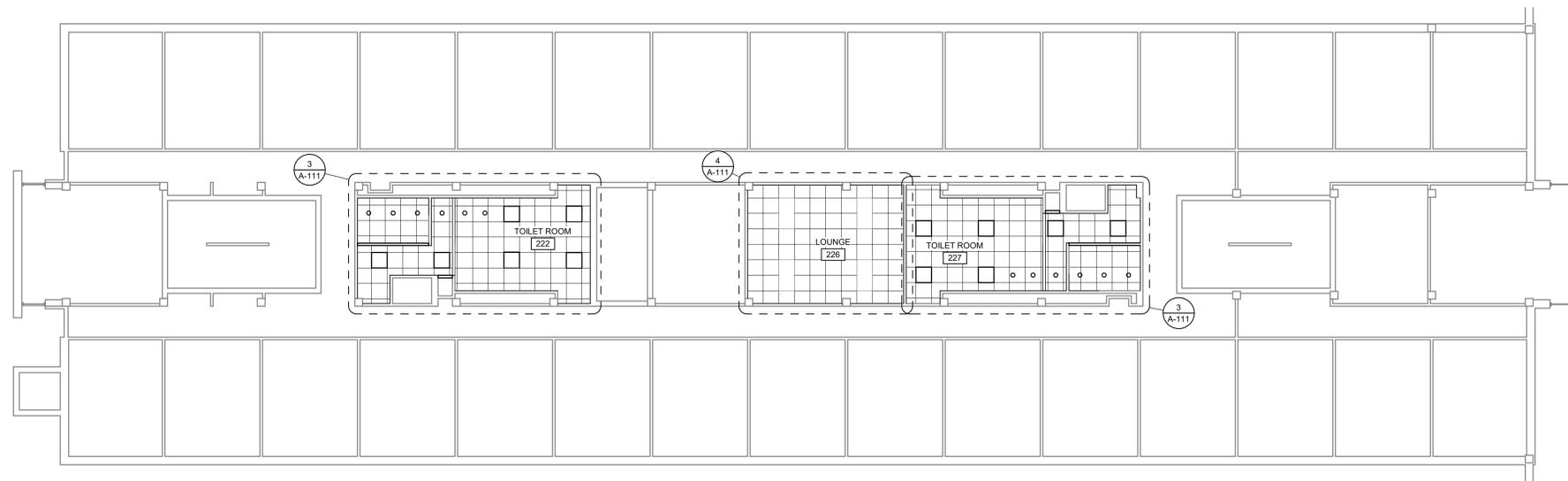
3 TYPICAL RESTROOM REFLECTED CEILING PLAN
1/4" = 1'-0"



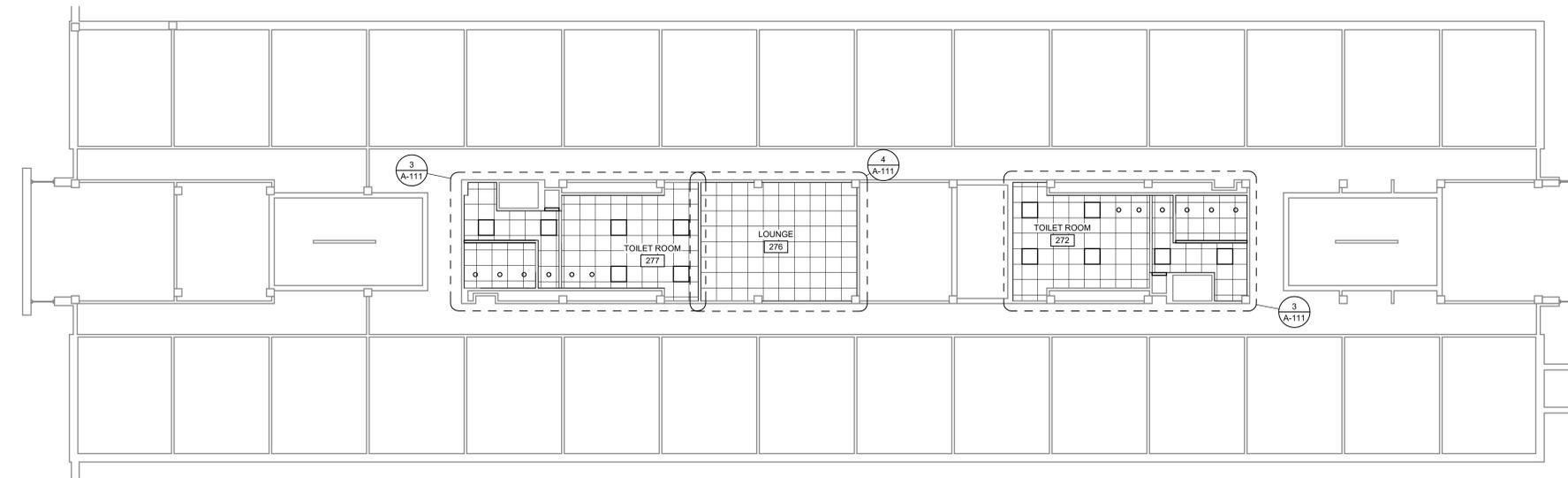
4 TYPICAL LOUNGE REFLECTED CEILING PLAN
1/4" = 1'-0"



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TULSA, OK 74119
918.577.6000



1 SECOND FLOOR RCP - HARRILL
1/8" = 1'-0"



2 SECOND FLOOR RCP - DOBSON
1/8" = 1'-0"

CEILING PLAN LEGEND

- EXISTING SUSPENDED CEILING
- NEW 2' x 2' SUSPENDED CEILING
- NEW GYPSUM CEILING
- NEW LAY-IN LIGHT FIXTURE
- NEW RECESSED LIGHT FIXTURE
- NEW VANITY LIGHT FIXTURE
- OCCUPANCY SENSOR
- EMERGENCY LIGHT
- MATERIAL CEILING INDICATOR HEIGHT
- ROOM NAME ROOM IDENTIFIER
- NEW EXHAUST GRILLE; RE: MECH
- PARTITION TYPE A, EXTENDS TO BOTTOM OF CEILING GRID; RE: FLOOR PLANS FOR LOCATIONS

GENERAL RCP NOTES

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**HARRILL-DOBSON INTERIOR
UPGRADES**
NORTHEASTERN OKLAHOMA A&M COLLEGE
200 1ST STREET, NORTHEAST
MARIETTA, OK 74854

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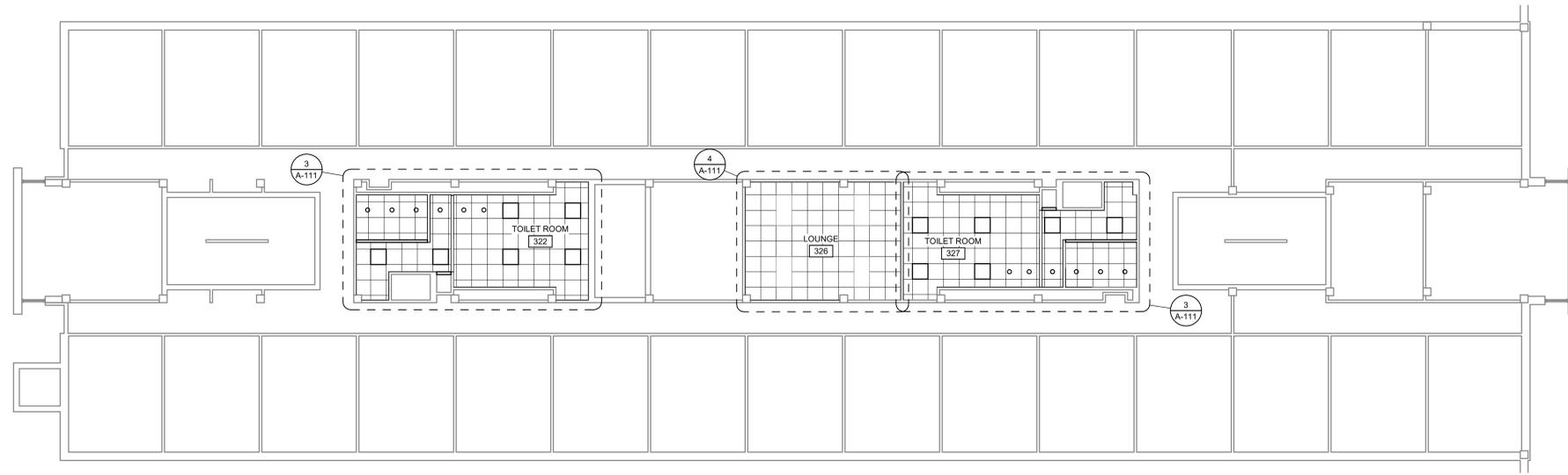
ISSUE DATE: 03/29/2023
CHECKED BY: EW
DRAWN BY: JD

SHEET NAME
SECOND FLOOR REFLECTED
CEILING PLAN

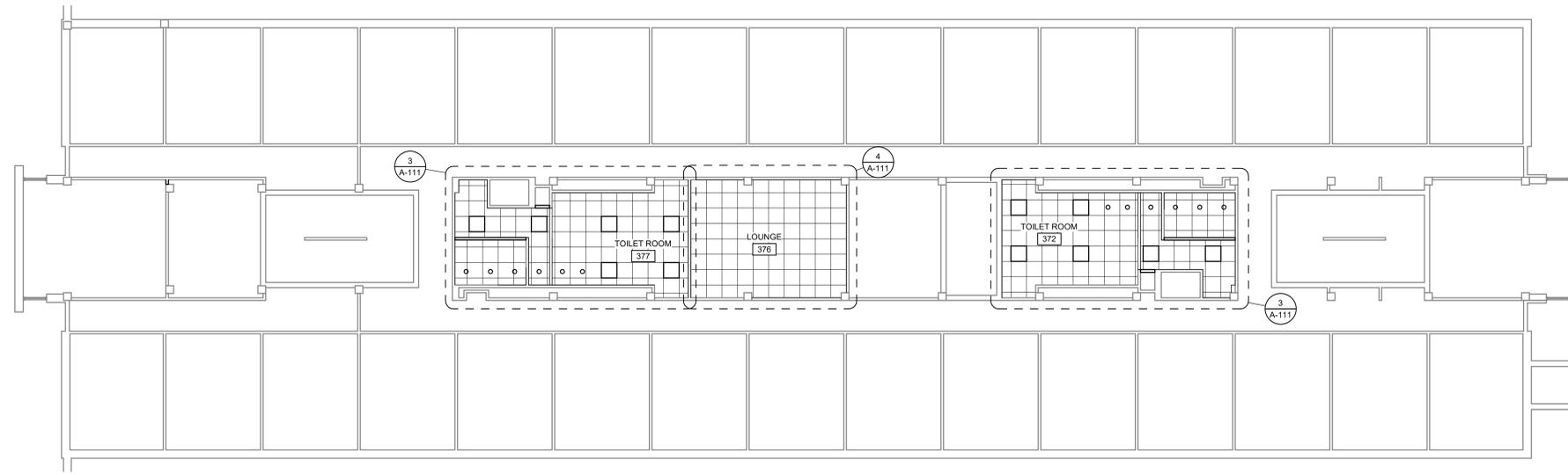
SHEET NUMBER
A-112



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TULSA, OK 74119
918.677.6000



2 THIRD FLOOR RCP - HARRILL
1/8" = 1'-0"



1 THIRD FLOOR RCP - DOBSON
1/8" = 1'-0"

CEILING PLAN LEGEND

- EXISTING SUSPENDED CEILING
- NEW 2' x 2' SUSPENDED CEILING
- NEW GYPSUM CEILING
- NEW LAY-IN LIGHT FIXTURE
- NEW RECESSED LIGHT FIXTURE
- NEW VANITY LIGHT FIXTURE
- OCCUPANCY SENSOR
- EMERGENCY LIGHT
- MATERIAL CEILING INDICATOR HEIGHT
- ROOM IDENTIFIER
- NEW EXHAUST GRILLE; RE: MECH
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NORTHEASTERN OKLAHOMA A&M COLLEGE
200 1ST STREET, NORTHEAST
MARIETTA, OK 74854

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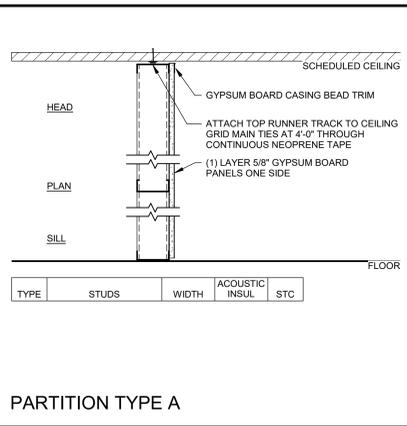
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SHEET NAME
THIRD FLOOR REFLECTED
CEILING PLAN

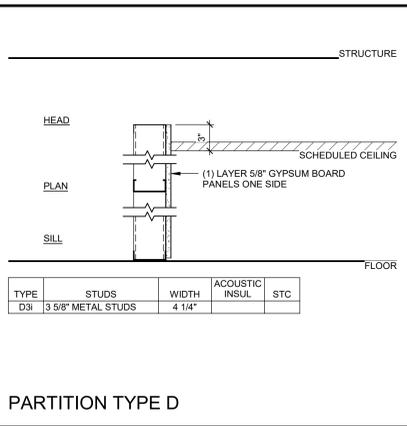
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A-113



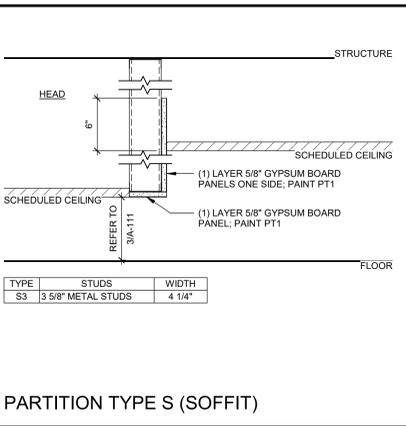
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PARTITION TYPE A



PARTITION TYPE D



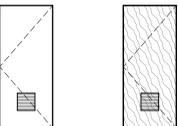
PARTITION TYPE S (SOFFIT)

DOOR HARDWARE

- PUBLIC RESTROOM HARDWARE (RESTROOM DOORS)
 - (3) BUTT HINGES
 - (1) CLOSER
 - (1) KICK PLATE
 - (3) SILENCERS
 - (1) PUSH PLATE
 - (1) PULL PLATE
 - (1) TOE PULL
- PASSAGE HARDWARE (LOUNGE DOORS)
 - (3) BUTT HINGES
 - (1) CLOSER
 - (1) KICK PLATE
 - (3) SILENCERS
 - (1) PUSH PLATE
 - (1) PULL PLATE

DOOR AND FRAME SCHEDULE

MARK	NO	DOOR SIZE			MATL	EL	HW SET NO	NOTES
		W	HT	THK				
FIRST FLOOR								
122A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
122B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
122C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
126A	1	2'-8"	6'-8"	1 3/4"	SCWD	L2	2	
126B	1	3'-0"	6'-8"	1 3/4"	SCWD	L2	2	
127A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
127B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
127C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
172A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
172B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
172C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
176A	1	2'-8"	6'-8"	1 3/4"	SCWD	L2	2	
176B	1	3'-0"	6'-8"	1 3/4"	SCWD	L2	2	
177A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
177B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
177C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
SECOND FLOOR								
222A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
222B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
222C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
226A	1	2'-8"	6'-8"	1 3/4"	SCWD	L2	2	
226B	1	3'-0"	6'-8"	1 3/4"	SCWD	L2	2	
227A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
227B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
227C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
272A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
272B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
272C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
276A	1	2'-8"	6'-8"	1 3/4"	SCWD	L2	2	
276B	1	3'-0"	6'-8"	1 3/4"	SCWD	L2	2	
277A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
277B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
277C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
THIRD FLOOR								
322A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
322B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
322C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
326A	1	2'-8"	6'-8"	1 3/4"	SCWD	L2	2	
326B	1	3'-0"	6'-8"	1 3/4"	SCWD	L2	2	
327A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
327B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
327C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
372A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
372B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
372C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
376A	1	2'-8"	6'-8"	1 3/4"	SCWD	L2	2	
376B	1	3'-0"	6'-8"	1 3/4"	SCWD	L2	2	
377A	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
377B	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	
377C	1	2'-8"	6'-8"	1 3/4"	HM	L1	1	



DOOR ELEVATIONS

1/4" = 1'-0"

****CONTRACTOR TO VERIFY ALL DOOR DIMENSIONS****

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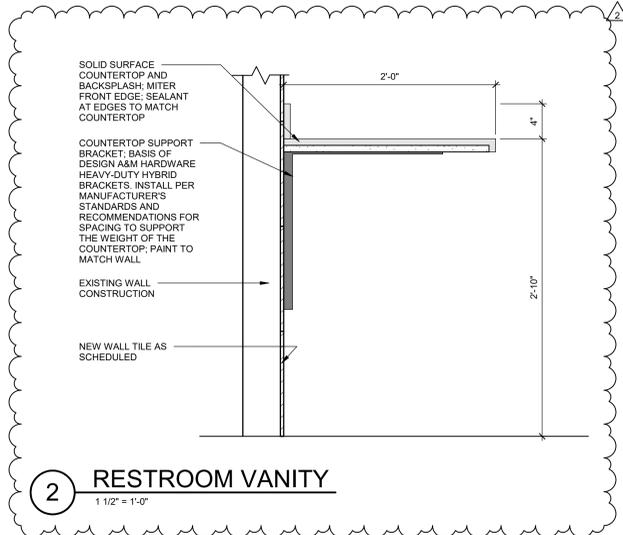
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1	03/29/2023	ISSUE FOR CONSTRUCTION
2	01/30/2026	AS 2

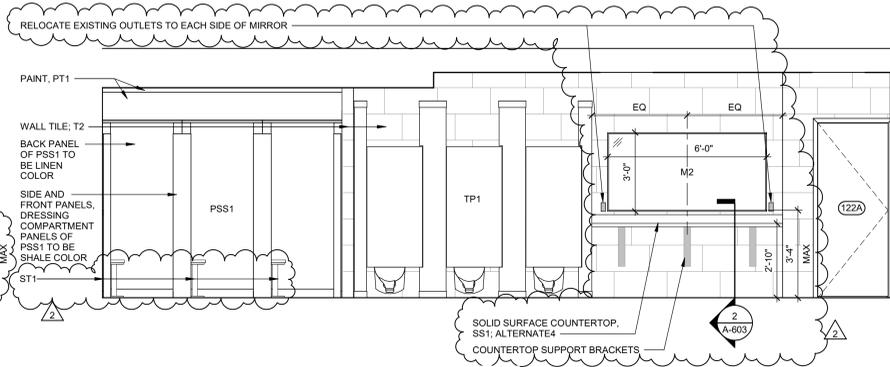
ISSUE DATE: 03/29/2023
CHECKED BY: EAW
DRAWN BY: JD

SHEET NAME
INTERIOR ELEVATIONS,
PARTITION TYPES, DOOR
SCHEDULE AND DOOR
ELEVATIONS

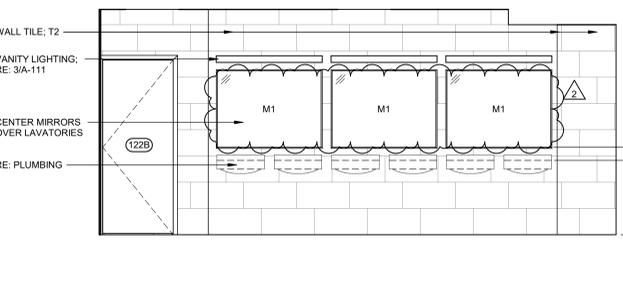
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A-603



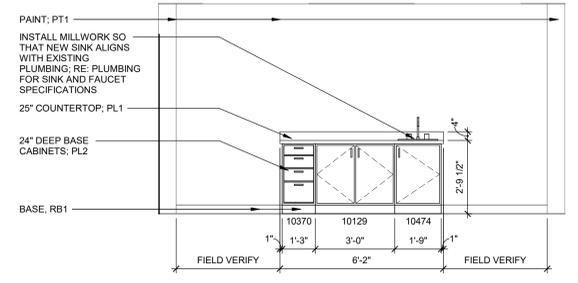
RESTROOM VANITY



TYPICAL RESTROOM - SHOWER



TYPICAL RESTROOM - LAVATORY



TYPICAL LOUNGE MILLWORK

GENERAL CASEWORK NOTES

- ALL EXPOSED ENDS OF CABINETS SHALL BE FINISHED WITH PLASTIC LAMINATE.
- CABINET BASIS OF DESIGN: STEVEN'S ADVANTAGE
 - 4 DRAWER BASE CABINET: 10370
 - 2 DOOR BASE CABINET: 10129
 - 1 DOOR BASE CABINET: 10474
- COUNTERTOP BASIS OF DESIGN: STEVEN'S ADVANTAGE

Project Number: P00020.0000
Printed: 1/12/2026 3:11:46 PM
C:\Users\design1\Documents\Revit\Drawings\Harrill Restroom Renovation_Arch_2023_drf\sheet7622.rvt



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810 S CINCINNATI AVE, STE 200
TULSA, OK 74119
918.877.6000

CYTERGY ENGINEERING, PLLC
LICENSE # 3537 | EXPIRES 06/30/2024



DOBSON-HARRILL RESTROOM RENOVATION

200 STREET NORTHEAST
MARIETTA, GA 30067

NEO

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ISSUES / REVISIONS	
03/29/2023	ISSUE FOR CONSTRUCTION

ISSUE DATE: 03/29/2023
CHECKED BY: SKG
DRAWN BY: SMN

SHEET NAME
PLUMBING NOTES, LEGENDS, & ABBREVIATIONS

SHEET NUMBER
P-001

GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH CURRENT APPLICABLE LOCAL, STATE, FEDERAL, FIRE, AND HEALTH CODES AND ORDINANCES AND IS RESPONSIBLE TO COMPLY WITH ALL REGULATIONS OF REGULATORY AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL ALSO COMPLY WITH THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION. CODES, ORDINANCES AND REGULATIONS SHALL HAVE PRECEDENCE OVER SPECIFICATIONS AND DRAWINGS WHERE THERE IS A CONFLICT. OBTAIN CURRENT COPIES OF ALL ADOPTED CODES AND ORDINANCES PRIOR TO BID AND INCLUDE ALL COSTS TO COMPLY WITH CODES AND ORDINANCES IN BID.
- PAY ALL LAWFUL FEES, PERMITS OR LICENSES REQUIRED TO ACCOMPLISH WORK. OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICE AND ANYTHING REASONABLY INCIDENTAL TO COMPLETE ALL WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED IN ACCORDANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO VISIT AND EXAMINE THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO THE WORK TO BE PERFORMED.
- INCORPORATE ALL CODE AND ORDINANCE REQUIREMENTS INTO THE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENT AND/OR TO OBTAIN APPROVAL OF WORK.
- THE DRAWINGS ARE DIAGRAMMATIC AND ARE ONLY INTENDED TO DEFINE THE BASIC FUNCTIONS REQUIRED. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS AND COORDINATION WITH OTHER TRADES WILL ALLOW. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND ARE A PART OF THE WORK INCLUDED; HOWEVER, CHANGES THAT ALTER THE CHARACTER OF THE WORK ARE NOT PERMITTED. APPROVAL OF ARCHITECT AND ENGINEER SHALL BE OBTAINED BEFORE DEVIATIONS FROM THESE PLANS ARE MADE.
- PLUMBING SYSTEMS ARE NOT DIMENSIONED. DO NOT SCALE FROM DRAWING(S). THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ENSURE THERE IS AVAILABLE SPACE FOR INSTALLATION BEFORE ORDERING EQUIPMENT AND FABRICATING PIPING.
- THE CONTRACTOR SHALL STUDY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS TO ENSURE ALL PLUMBING SYSTEMS WILL FIT WITH SUFFICIENT CLEARANCES FOR INSTALLATION, SERVICING AND MAINTENANCE. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL COMPLY WITH SPECIFICATIONS AND INDUSTRY STANDARDS FOR ALL INSTALLATIONS.
- PROVIDE ALL DOMESTIC POTABLE WATER EQUIPMENT AND PIPING AS "LEAD FREE" PER THE "REDUCTION OF LEAD IN DRINKING WATER ACT". NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO SUBMITTAL.
- UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT LOCATIONS. REFER TO PLUMBING DRAWINGS FOR PLUMBING EQUIPMENT.
- SEAL ALL PENETRATIONS WATER TIGHT. SEAL AROUND ALL WALL PENETRATIONS. PROVIDE ESCUTCHEONS ON ALL PIPING ON EXTERIOR AND EXPOSED LOCATIONS. CAULK WITH REQUIRED THICKNESS 3M BRAND FIRE BARRIER CAULK CP-25 (OR OTHER APPROVED METHOD) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE RATED ASSEMBLIES.
- ALL CUTTING AND PATCHING OF STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PERFORMING WORK.
- THE CONTRACTOR SHALL COORDINATE ALL ROUTING AND MOUNTING OF EQUIPMENT, PIPING, ETC (ALL WORK) WITH ALL OTHER TRADES.
- PROVIDE ACCESS PANELS WHERE INDICATED ON DRAWINGS AND AS REQUIRED TO PROPERLY OPERATE, ADJUST AND MAINTAIN ALL EQUIPMENT, VALVES, DAMPERS AND OTHER ACCESSORIES. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE INSTALLATION WITH ALL OTHER TRADES. ACCESS PANEL TO BE MILGOR, MATHROCK, OR APPROVED EQUAL, HINGED WITH SCREWDRIVER LOCK.
- ROUTE PIPING AS HIGH AS POSSIBLE ABOVE FINISHED CEILING TO AVOID CONFLICT WITH LIGHTS.
- INSTALL ALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS UNLESS DISTINCTLY SHOWN OR NOTED OTHERWISE. ROUTE PIPING LOCATED NEAR EACH OTHER PARALLEL IN ALL PLANES AND WITH SUFFICIENT CLEARANCE.
- ALL PIPING SHALL BE INSTALLED SO THAT IT MAY EXPAND AND CONTRACT FREELY WITHOUT DAMAGES TO EQUIPMENT, OTHER WORK, OR INJURY TO PIPING SYSTEM. ALL NECESSARY SWING JOINTS, EXPANSION JOINTS, OR OFFSETS TO PROTECT PIPING, ETC. SHALL BE INSTALLED WHETHER INDICATED OR NOT.
- PROPERLY SUPPORT ALL PIPING. PROVIDE ALL REQUIRED ANCHORS, GUIDES AND EXPANSION DEVICES.
- PAINT ALL EXTERIOR AND EXPOSED PIPING. COORDINATE COLOR TO MATCH SURROUNDING ARCHITECTURAL ELEMENTS. NATURAL GAS OR PROPANE PIPING TO BE PAINTED YELLOW.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL MATERIAL, EQUIPMENT, APPARATUS AND WORK FROM DAMAGE. FAILURE TO DO SO TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE WILL BE SUFFICIENT CAUSE FOR THE REJECTION OF THE MATERIAL, EQUIPMENT, APPARATUS AND WORK IN QUESTION.
- THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FOLLOWING THE DATE OF ACCEPTANCE. THE CONTRACTOR'S GUARANTEE INCLUDES EQUIPMENT CAPACITY, PERFORMANCE RATINGS AND NOISE RATINGS. ANY DEFICIENCIES SHALL BE PROMPTLY CORRECTED. ROUTINE MAINTENANCE SHALL NOT BE INCLUDED.
- THE CONTRACTOR SHALL CLEAN ALL FIXTURES, PIPES, EQUIPMENT AND EXPOSED WORK AFTER COMPLETION OF FINAL TESTING AND BEFORE ACCEPTANCE.
- ALL PLATED AND OTHER FINISHED PRODUCTS SHALL BE THOROUGHLY CLEANED AND POLISHED.
- THE MANUFACTURER MODEL OR CATALOG NUMBERS INDICATED IN THE CONSTRUCTION DOCUMENTS ESTABLISH A STANDARD FOR THE GENERAL DESIGN, PERFORMANCE, AND QUALITY OF THE PRODUCT REQUIRED.
- ALTERNATE MANUFACTURERS LISTED IN THE SCHEDULE OR SPECIFICATIONS ARE APPROVED TO BID; HOWEVER, THE SUBMITTED PRODUCT MUST MEET THE GENERAL DESIGN, PERFORMANCE, DIMENSIONS, WEIGHT, AND QUALITY OF THE SCHEDULED PRODUCT. EACH MANUFACTURER WILL HAVE DIFFERENCES IN INSTALLATION REQUIREMENTS. IF THE CONTRACTOR ELECTS TO GO WITH A NON-BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE THE COST FOR ENGINEERING TIME, AS REQUIRED, TO ADJUST THE DESIGN TO THOSE DIFFERENCES IN THEIR BID. IF THE BASIS OF DESIGN IS NOT BID, THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY THE DIFFERENCES IN THE INSTALLATION REQUIREMENTS BETWEEN THE BASIS OF DESIGN AND THE SUBMITTED MANUFACTURER DURING THE SUBMITTAL PHASE.
- WHERE "OR APPROVED EQUAL" IS INDICATED, OTHER PRODUCTS SIMILAR IN DESIGN AND OF EQUAL QUALITY AND PERFORMANCE, AND COMPLYING WITH THE PLANS AND SPECIFICATIONS MAY BE APPROVED IF FOUND ACCEPTABLE BY THE ARCHITECT/ENGINEER. THE CONTRACTOR MUST SUBMIT TO THE ARCHITECT/ENGINEER A LINE-BY-LINE COMPARISON BETWEEN SCHEDULED MANUFACTURER AND "OR APPROVED EQUAL" MANUFACTURER 10 DAYS PRIOR TO BID.
- ALL MATERIALS, EQUIPMENT, ETC., INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO ALL RULES, CODES, ETC., AS RECOMMENDED OR ADAPTED BY THE NATIONAL ASSOCIATION GOVERNING THE MANUFACTURER, RATING AND TESTING OF SUCH MATERIALS, EQUIPMENT, ETC., ALL ELECTRICALLY OPERATED EQUIPMENT SHALL BE U.L. APPROVED FOR THE USE INTENDED.
- ALL FIRED AND UNFIRED PRESSURE VESSELS SHALL CONFORM TO THE RULES OF THE A.S.M.E. AND NATIONAL BOARD CODES AND SHALL BE SO LABELED. FURNISH A S.M.E. AND NATIONAL BOARD CERTIFICATES.
- MOTORS SHALL CONFORM TO THE RULES OF THE N.E.M.A. FOR THE SERVICE INTENDED AND TO THEIR STANDARDIZED FORM SIZES.
- SHOP DRAWINGS, CATALOG CUTSHEETS AND PERFORMANCE DATA PERTAINING TO ALL MATERIALS AND EQUIPMENT PROPOSED FOR USE SHALL BE SUBMITTED.
- JOINTS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC NIPPLES DOWNSTREAM OF A VALVE.
- ALL MATERIALS EXPOSED IN A RETURN AIR PLENUM SHALL COMPLY WITH NFPA 90A FLAME SPREAD UNDER 25 AND SMOKE DEVELOPED AND FUEL CONTRIBUTED UNDER 50.
- THE DISCHARGE OF SAFETY VALVES, BLOWOFF PIPES AND OTHER OUTLETS SHALL BE LOCATED AND SUPPORTED SO AS TO PREVENT INJURY TO PERSONNEL.
- PROVIDE RETURN AIR SMOKE DETECTOR IN EACH HVAC UNIT OVER 2,000 CFM AS REQUIRED BY THE LATEST ADOPTED INTERNATIONAL MECHANICAL CODE.

PLUMBING ABBREVIATIONS

A	L
ADD ADDENDUM	LB POUND, POUNDS
ADJ ADJUSTABLE	
AFF ABOVE FINISHED FLOOR	M
AV ACID VENT	M THOUSAND
AVTR ACID VENT THRU THE ROOF	MBH THOUSAND BTUH
AW ACID WASTE	MFG MANUFACTURER
	MPG NATURAL GAS, MEDIUM PRESSURE
B	MIN MINIMUM
BFF BELOW FINISHED FLOOR	MISC MISCELLANEOUS
BFPD BACK FLOW PREVENTION DEVICE	MSB MOP SERVICE BASIN
BTM BOTTOM	
C	N
CA COMPRESSED AIR	NC NORMALLY CLOSED
CD CONDENSATE DRAIN	NIC NOT IN CONTRACT
CL CENTER LINE	NO NORMALLY OPEN or NUMBER
CO CLEANOUT	NOM NOMINAL
CONT CONTINUATION	NTS NOT TO SCALE
CP PUMPED CONDENSATE	
D	O
(D) DEMOLISH	OI OIL INTERCEPTOR
DCW DOMESTIC COLD WATER	
DF DRINKING FOUNTAIN	P
DHW DOMESTIC HOT WATER	PH PHASE
DHWR DOMESTIC HOT WATER RETURN	PRV PRESSURE REDUCING VALVE
DI DEIONIZED WATER	PRD PRIMARY ROOF DRAIN
DF DRINKING FOUNTAIN	PSI POUNDS PER SQUARE INCH
DN DOWN	PSIA POUNDS PER SQUARE INCH ABSOLUTE
DS DISTILLED WATER	PSIG POUNDS PER SQUARE INCH GAGE
DWG DRAWING	
DWV DRAIN WASTE AND VENT	R
	(R) EXISTING TO REMOVE, RELOCATE
E	RD ROOF DRAIN
(E) EXISTING TO REMAIN	RE REFER TO
EEW EMERGENCY EYE WASH	RM ROOM
ENGR ENGINEER	RPM REVOLUTIONS PER MINUTE
EQUIP EQUIPMENT	RPS REVOLUTIONS PER SECOND
EWC ELECTRIC WATER COOLER	RV RELIEF VALVE
EWHE ELECTRIC WATER HEATER	Ø ROUND, DIAMETER
EWV ENTERING WATER TEMPERATURE	
EXT EXPANSION TANK	
F	SD STORM DRAIN
F FAHRENHEIT	SI SOLIDS INTERCEPTOR
FCO FLOOR CLEANOUT	SS SANITARY SEWER or STAINLESS STEEL
FD FLOOR DRAIN	SQIN SQUARE INCH/INCHES
FLR FLOOR	SQFT SQUARE FOOT/FEET
FPWH FREEZE PROOF WALL HYDRANT	SRD SECONDARY ROOF DRAIN
FPM FEET PER MINUTE	
FT FOOT, FEET	T
FS FLOOR SINK	TEMP TEMPERATURE
	THRU THROUGH
G	TWV THERMOSTATIC MIXING VALVE
G NATURAL GAS, LOW PRESSURE	TYP TYPICAL
GAL GALLON, GALLONS	
GI GREASE INTERCEPTOR	U
GPF GALLONS PER FLUSH	UL UNDERWRITER'S LABORATORIES
GPH GALLONS PER HOUR	UNO UNLESS NOTED OTHERWISE
GPM GALLONS PER MINUTE	UR URINAL
GCO GRADE CLEAN OUT	
GW GREASE WASTE	V
GWV GAS WATER HEATER	V VENT or VOLT
	VAC VACUUM
H	VFD VARIABLE FREQUENCY DRIVE
HB HOSE BIBB	VTR VENT THRU THE ROOF
HD HEAD	VTW VENT THRU THE WALL
HP HORSEPOWER	
HPG NATURAL GAS, HIGH PRESSURE	W
	WAG WATER AND GAS
I	W WATT
IN INCH, INCHES	WB WASHER BOX
INV INVERT	WC WATER CLOSET
INWC INCHES OF WATER COLUMN	WHA WATER HAMMER ARRESTOR
IW IRRIGATION WATER	
K	Y
KW KILOWATT	YH YARD HYDRANT
K THOUSAND	

RENOVATION NOTES

- THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING AND SHALL BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO OTHER WORK. FAILURE TO VISIT SITE SHALL NOT CONSTITUTE A BASIS FOR FUTURE CLAIMS.
- EXISTING CONDITIONS WERE TAKEN FROM OBSERVABLE SITE CONDITIONS AND ORIGINAL DRAWINGS. THIS DRAWINGS MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
- FIELD VERIFY EXISTING SYSTEM PRESSURES AND TEMPERATURES PRIOR TO ANY SYSTEM TIE-INS. ALL NEW MATERIALS SHALL MEET OR EXCEED PERFORMANCE OF MATERIALS USED ON EXISTING SYSTEMS.
- AVOID DISRUPTION OF BUILDING SERVICES DURING NORMAL BUSINESS HOURS. COORDINATE ALL SYSTEM SHUT DOWNS WITH OWNER. REQUIRED SYSTEM SHUT DOWNS AND DISRUPTION OF BUILDING SERVICES WILL BE SCHEDULED AFTER NORMAL BUSINESS HOURS AND/OR AS DIRECTED BY OWNER. CONTRACTOR SHOULD ANTICIPATE THAT SHUTDOWNS MAY OCCUR AT PREMIUM TIME. CONTRACTOR SHALL INDICATE ON THEIR BID PROPOSAL QUANTITY AND DURATION OF EACH BUILDING SYSTEM SHUTDOWN REQUIRED TO COMPLETE WORK AS DESCRIBED ON CONTRACT DOCUMENTS.
- THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION OF ALL EQUIPMENT, DUCTWORK, AND PIPING, INCLUDING SYSTEM TIE-INS. NOTIFY ARCHITECT AND ENGINEER OF ANY MODIFICATIONS REQUIRED FROM THE PLANS TO FACILITATE INSTALLATION PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL CONSTRUCTION WITH BUILDING OCCUPANTS LOCATED IN THE WORK AREA.
- THE CONTRACTOR SHALL COORDINATE ALL PATCH AND REPAIR OF WALLS, FLOORS, AND FINISHES WHEN DISTURBED BY NEW CONSTRUCTION.
- WHERE SYSTEM TIE-INS ARE MADE AND AT ALL LOCATIONS WHERE DAMAGE OCCURRED FROM NEW CONSTRUCTION, PATCH AND REPAIR DAMAGED INSULATION WITH INSULATION TYPE AND THICKNESS TO MATCH EXISTING.
- TEST AND BALANCE EXISTING HVAC SYSTEMS AS REQUIRED TO ACCOMMODATE SYSTEM MODIFICATIONS AND ADDITIONS. MAINTAIN ACCEPTABLE COMFORT LEVELS DURING TEST AND BALANCE AS REQUIRED. ENSURE THE INTEGRITY OF THE EXISTING SYSTEM BALANCE.
- THE CONTRACTOR SHALL COORDINATE WORK WITH EXISTING FIRE PROTECTION PIPING AND/OR SPRINKLER HEADS. ANY WORK ASSOCIATED WITH MODIFYING THESE SYSTEMS SHALL BE PERFORMED BY A LICENSED AND APPROVED CONTRACTOR. NEW SPRINKLER HEADS SHALL MATCH EXISTING. FIELD VERIFY MANUFACTURER AND MODEL NUMBER. FIRE PROTECTION CONTRACTOR SHALL INFORM THE BUILDING SECURITY OFFICE EVERY DAY WHEN A SHUTDOWN OF SPRINKLER SYSTEM IS REQUIRED FOR CONSTRUCTION. THE CONTRACTOR SHALL RECONNECT AND FILL THE SPRINKLER SYSTEM INTO WORKING CONDITION AT THE END OF EACH WORKING DAY TO ASSURE PROTECTION DURING UNOCCUPIED PERIODS.

PLUMBING SYMBOLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER, SEE SPECS	—DS—	DISTILLED WATER
	BALL VALVE	—DI—	DEMINERALIZED OR DEIONIZED WATER
	BLIND FLANGE	—DCW—	DOMESTIC COLD WATER
	CAP	—DHW—	DOMESTIC HOT WATER
	CHECK VALVE	—DHWR—	DOMESTIC HOT WATER RETURN
	CHECK VALVE, SILENT	—110°F—	DOMESTIC HOT WATER (110°F)
	CIRCUIT SETTER	—140°F—	DOMESTIC HOT WATER (140°F)
	FLEXIBLE CONNECTOR	—IW—	IRRIGATION WATER
	GENERAL VALVE, SEE SPECS	—G—	NATURAL GAS, LOW PRESS
	PRESSURE AND TEMPERATURE RELIEF	—MPG—	NATURAL GAS, MED PRESS
	PRESSURE REDUCING VALVE	—HPG—	NATURAL GAS, HIGH PRESS
	RELIEF VALVE, ASME	—CA—	COMPRESSED AIR
	SOLENOID VALVE	—PRD—	PRIMARY ROOF DRAIN
	STRAINER	—RD—	ROOF DRAIN
	TRIPLE DUTY VALVE	—SRD—	SECONDARY ROOF DRAIN
	UNION	—SD—	STORM DRAIN
	RISER DOWN (ELBOW)	—V—	VENT, SANITARY SEWER
	RISER UP (ELBOW)	—AV—	VENT, ACID WASTE
	RISE OR DROP	—GV—	VENT, GREASE
	TEE DOWN	—VAC—	VACUUM
	TEE UP	—AW—	WASTE, ACID
	TOP CONNECTION	—GW—	WASTE, GREASE
	BOTTOM CONNECTION	—SS—	WASTE, SANITARY SEWER
	SIDE CONNECTION		
	FLOW IN DIRECTION OF ARROW		
	PIPE SLOPE IN DIRECTION OF ARROW		
	REMOVE EXISTING TO THIS POINT	--- ---	DEMOLITION
	TIE-IN TO EXISTING AT THIS POINT	--- ---	EXISTING TO REMAIN
	PUMP	--- ---	NEW CONSTRUCTION
	EQUIPMENT TAG	--- ---	DOMESTIC COLD WATER
	EQUIPMENT NUMBER	--- ---	DOMESTIC HOT WATER
	CLEANOUT PLUG	--- ---	DOMESTIC HOT WATER RETURN
	CLEANOUT, FLOOR	--- ---	SANITARY & STORM
	CLEANOUT, WALL	--- ---	VENT
	HOSE BIBB	--- ---	OUTLINE OF NEW EQUIPMENT INSTALLED ABOVE THE FLOOR SHOWN (I.E., ROOF)
	FREEZE PROOF WALL HYDRANT		
	GAS REGULATOR		
	FLOOR DRAIN		
	SHOWER DRAIN		
	FLOOR SINK		
	PRIMARY ROOF DRAIN		
	SECONDARY ROOF DRAIN		

DEMOLITION NOTES

- DEMOLISH EXISTING AS REQUIRED FOR NEW CONSTRUCTION AS DIRECTED BY ARCHITECT AND/OR AS NOTED ON DRAWINGS. AVOID DISRUPTION OF SERVICES DURING NORMAL BUSINESS HOURS. ALL SYSTEM SHUT-DOWNS AND DISRUPTION OF BUILDING SERVICES SHALL BE COORDINATED WITH OWNER AND SCHEDULED AFTER NORMAL BUILDING HOURS OR AS OTHERWISE APPROVED BY OWNER.
- PRIOR TO DEMOLITION FIELD VERIFY AND IDENTIFY ANY EXISTING EQUIPMENT TO REMAIN IN SERVICE THAT IS SERVED BY SYSTEMS TO BE DEMOLISHED. NOTIFY ENGINEER OF ANY SUCH CONDITIONS AND REMOVE AND/OR RELOCATE THE SERVICES AS DIRECTED.
- MEET WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY WHETHER EXISTING MATERIALS SYSTEMS, EQUIPMENT, ETC. ARE CONSIDERED SALVAGE OR DEBRIS. REMOVE DEBRIS FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. RETURN SALVAGE TO OWNER IN A LOCATION AND MANNER AS DIRECTED BY OWNER.
- TERMINATE DEMOLISHED SYSTEM SERVICES IN A CONCEALED LOCATION IN AN APPROVED MANNER. COORDINATE WITH NEW AND EXISTING CONSTRUCTION.
- FIELD VERIFY EXISTING PIPING LOCATIONS PRIOR TO WORK.
- VERIFY EXTENT OF DEMOLITION OF HVAC, PLUMBING, AND FIRE PROTECTION PIPING, EQUIPMENT, AND SYSTEMS PRIOR TO WORK. ALL DEMOLITION WORK SHALL BE IN COMPLIANCE WITH APPLICABLE CODES, STANDARDS AND THE AUTHORITY HAVING JURISDICTION.
- WHERE REQUIRED, COORDINATE EQUIPMENT ELECTRICAL TERMINATION REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- COMPLY WITH REQUIREMENTS OF ASHRAE 15 AND ASHRAE 147 FOR REFRIGERANT SAFETY, LEAKS, RECOVERY, HANDLING, STORAGE AND DISPOSAL REQUIREMENTS. ALL TANKS AND REFRIGERANTS THAT ARE DISCARDED MUST BE DISPOSED OF ACCORDING TO EPA REQUIREMENTS. REFER TO THE CLEAN AIR ACT, SECTION 608 FOR REGULATIONS. CONTRACTOR SHALL MAINTAIN VENTILATION IN THE AREA OF WORK IN ACCORDANCE WITH ASHRAE 15 AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND OWNER'S ROOFING CONTRACTOR IN REGARDS TO ANY ROOF WARRANTIES. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CURRENT ROOF WARRANTIES THAT ARE IN EFFECT.

PLUMBING NOTES AND SPECIFICATIONS

- 1. PLUMBING GENERAL
1.1. THE PLUMBING SYSTEM SHALL BE SIZED AND INSTALLED PER THE LATEST ADOPTED INTERNATIONAL PLUMBING CODE.
1.2. WORK INCLUDED: PROVIDE PLUMBING WHERE SHOWN ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION INCLUDING, BUT NOT NECESSARILY LIMITED TO:
1.2.1. DOMESTIC HOT, COLD AND HOT WATER RETURN SYSTEMS.
1.2.2. SANITARY DRAIN, WASTE AND VENT SYSTEMS.
1.2.3. PRIMARY AND SECONDARY ROOF DRAIN SYSTEMS.
1.2.4. NATURAL GAS PIPING SYSTEM.
1.3. RELATED WORK: DOCUMENTS AFFECTING WORK OF THIS SECTION INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO GENERAL CONDITIONS, SUPPLEMENTARY AND SECTIONS IN DIVISION ONE (1) SPECIFICATIONS.
1.4. FIELD CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
1.5. LAYOUT AND WORK COORDINATION
1.5.1. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, AND APPURTENANCES WHICH SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION, SITE CONDITIONS, AND THE WORK OF OTHER TRADES WILL PERMIT. THE PLUMBING WORK SHALL CONFORM TO THE REQUIREMENTS SHOWN ON ALL OF THE DRAWINGS. DUE TO THE DIAGRAMMATIC NATURE OF THE PLUMBING DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE STRUCTURAL ELEMENTS, FINISH CONDITIONS AND NEW CONSTRUCTION AFFECTING THE WORK AND SHALL ARRANGE HIS WORK ACCORDINGLY.
1.5.2. LAY OUT THE PLUMBING SYSTEM IN CAREFUL COORDINATION WITH THE DRAWINGS, DETERMINING PROPER ELEVATIONS FOR ALL COMPONENTS OF THE SYSTEM AND USING ONLY THE MINIMUM NUMBER OF BENDS TO PRODUCE A SATISFACTORILY FUNCTIONING SYSTEM.
1.5.3. FOLLOW THE GENERAL LAYOUT SHOWN ON THE DRAWINGS IN ALL CASES EXCEPT WHERE OTHER WORK MAY INTERFERE.
1.5.4. LAY OUT PIPES TO FALL WITHIN PARTITION, WALL, OR ROOF CAVITIES, AND DO NOT REQUIRE FURRING OTHER THAN ROOF HEAD ROOM AND PITCH OR SLOPING LINES. DOMESTIC WATER LINES IN EXTERIOR WALLS WITHOUT PROPER CONSIDERATIONS OF REQUIRED INSULATION AND ROUTING.
1.5.5. NO CUTS SHALL BE MADE INTO ANY STRUCTURAL ELEMENT, BEAM OR COLUMN WITHOUT WRITTEN APPROVAL. PENETRATIONS IN CONCRETE STRUCTURES SHALL BE PROVIDED BY THE TRADE REQUIRING SAME OR AS COORDINATED WITH THE GENERAL CONTRACTOR.
1.5.6. LOCATIONS OF PIPES, DUCTS SWITCHES, PANELS, EQUIPMENT, FIXTURES ETC. SHALL BE ADJUSTED TO ACCOMMODATE THE WORK TO EQUIPMENT FOR INTERFERENCES ANTICIPATED OR ENCOUNTERED. THE CONTRACTOR SHALL DETERMINE THE EXACT ROUTE AND LOCATION OF EACH PIPE, DUCT AND ELECTRICAL RACEWAY PRIOR TO FABRICATION.
1.5.7. RIGHT-OF-WAY: LINES WHICH PITCH SHALL HAVE THE RIGHT-OF-WAY OVER THOSE WHICH DO NOT PITCH. FOR EXAMPLE, PLUMBING DRAINS SHALL NORMALLY HAVE RIGHT-OF-WAY. LINES WHOSE ELEVATIONS CAN NOT BE CHANGED SHALL HAVE THE RIGHT-OF-WAY OVER LINES WHOSE ELEVATIONS CAN BE CHANGED.
1.5.8. OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN PIPES AND DUCTS SHALL BE MADE AS REQUIRED TO MAINTAIN PROPER HEAD ROOM AND PITCH OR SLOPING LINES. WHETHER OR NOT INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAPS, CLEANOUTS AND SANITARY VENTS, ETC. AS REQUIRED TO AFFECT THESE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION.
1.6. QUALITY ASSURANCE
1.6.1. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.
1.6.2. COMPLY WITH PERTINENT REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK AND WITH ORDINANCES INCLUDING THOSE OF THE STATE, COUNTY AND CITY. THIS SHALL INCLUDE ANY HEALTH DEPARTMENT REGULATIONS.
1.6.3. IN THE EVENT OF CONFLICT BETWEEN OR AMONG SPECIFIED REQUIREMENTS AND PERTINENT REGULATIONS, THE MORE STRINGENT REQUIREMENT WILL GOVERN. NOTIFY ENGINEER OR ARCHITECT PRIOR TO ANY WORK ARISING FROM THESE CONFLICTS.
1.6.4. NON-COMPLIANCE: SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES.
1.6.5. PAY ALL FEES, TAXES, LICENSES AND PERMITS FOR INSPECTION AND CERTIFICATION FOR THE EXECUTION OF THIS WORK.
1.6.6. CERTIFICATE OF FINAL INSPECTION: UNDER EACH APPLICABLE SECTION OF THE SPECIFICATIONS, THE CONTRACTOR SHALL, UPON COMPLETION OF THE WORK UNDER THAT SECTION, FURNISH A CERTIFICATE OF FINAL INSPECTION FROM THE DEPARTMENT HAVING JURISDICTION.
1.7. SUBMITTALS
1.7.1. COMPLY WITH PERTINENT PROVISIONS OF DIVISION ONE (1).
1.7.2. DISINFECTION CERTIFICATE: UPON COMPLETION OF DOMESTIC WATER LINE DISINFECTION, DELIVER TO THE ARCHITECT A CERTIFICATE OF AN ACCEPTABLE "CERTIFICATE OF PERFORMANCE" FOR THAT ACTIVITY.
1.7.3. RECORD DRAWINGS AND MANUALS
1.7.3.1. COMPLY WITH PERTINENT PROVISIONS OF DIVISION ONE (1).
1.7.3.2. INCLUDE A COPY OF THE RECORD DRAWINGS IN EACH COPY OF THE OPERATION AND MAINTENANCE MANUAL AS DESCRIBED BELOW.
1.7.3.3. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL FURNISH TO THE ARCHITECT TWO COPIES OF AN OPERATION AND MAINTENANCE MANUAL COMPILED IN ACCORDANCE WITH THE PROVISIONS OF DIVISION ONE (1) OF THESE SPECIFICATIONS. INCLUDE WITHIN EACH MANUAL A COPY OF THE APPROVED RECORD DRAWINGS FOR THIS PORTION OF THE WORK, TWO COPIES OF ALL WARRANTIES AND GUARANTEES, DESCRIPTION OF EQUIPMENT CONTROL AND SEASONAL OPERATION AND SCHEDULE OF REQUIRED MAINTENANCE.
1.7.3.4. CONTRACTOR TO PROVIDE RECORD DRAWINGS IN A DWG FORMAT.
1.7.3.5. PROVIDE COMPLETE RECORD DRAWINGS IMMEDIATELY UPON COMPLETION OF PROJECT.
1.7.3.6. MAINTAIN ACCURATE CONTINUOUS RECORDS OF ANY AND ALL CHANGES FROM THE CONTRACT DOCUMENTS.
1.7.3.7. PROVIDE AN ELECTRONIC SET OF OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT IN THE PROJECT. THE MANUALS SHALL BE PRINTED BUT IS NOT LIMITED TO, START-UP, SHUT-DOWN, SERVICE AND LUBRICATION PROCEDURES.
1.7.3.8. IDENTIFY EACH PIECE OF EQUIPMENT ON RECORD DRAWINGS AND IN OPERATION AND MAINTENANCE MANUALS.
1.7.4. PRODUCT DATA
1.7.4.1. AFTER THE CONTRACTOR HAS RECEIVED THE OWNER'S NOTICE TO PROCEED, SUBMIT:
1.7.4.2. MATERIALS LIST OF ITEMS PROPOSED TO BE PROVIDED UNDER THIS SECTION.
1.7.4.3. MANUFACTURER'S SPECIFICATIONS, CATALOG CUTS, AND OTHER DATA NEEDED TO PROVE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
1.7.4.4. SHOP DRAWINGS AND OTHER DATA AS REQUIRED TO INDICATE METHOD OF INSTALLING AND ATTACHING EQUIPMENT, EXCEPT WHERE SUCH DETAILS ARE FULLY SHOWN ON THE DRAWINGS.
1.7.4.5. ALL SHEETS OF THE SUBMITTAL SHALL HAVE THE JOB NAME STAMPED OR PERMANENTLY WRITTEN NEATLY ON THEM AND SHALL BE ASSEMBLED IN AN INDEXED BROCHURE. THE DESCRIPTIVE MATERIAL SHALL BE ARRANGED IN THE BROCHURE IN THE SAME ORDER AS FOUND IN THE SPECIFICATIONS. EACH BROCHURE SHALL BE SUBMITTED IN A HARDBACK, 3-RING BINDER. THE LEADING SHEET OF THE DESCRIPTIVE MATERIAL FOR EACH ITEM SHALL BE OF HEAVY PAPER, WITH A NUMBERED OUTSIDE TAB, AND AN INDEX SHEET SHOWING THE LOCATION IN THE BROCHURE.
1.7.4.6. MANUFACTURER'S REGULAR CATALOG SHEETS WILL NOT BE ACCEPTABLE UNDER THESE REQUIREMENTS UNLESS THEY INDICATE COMPLETELY ALL OF THE SPECIFICATION REQUIREMENTS. WHERE DRAWINGS COVER SEVERAL SIZES OR TYPES OF CONSTRUCTION, THEY SHALL CLEARLY INDICATE THE SIZE OR TYPE OF CONSTRUCTION TO BE USED ON THE PROJECT. IN CASES WHERE SEVERAL SIZES OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED TO BE FURNISHED, THE SUBMITTAL SHALL INCLUDE A SCHEDULE IDENTIFYING EACH PIECE OF EQUIPMENT, COMPLETE WITH ALL CAPACITY INFORMATION NEEDED TO COMPARE EVERY SUBMITTAL ITEM WITH ITS RESPECTIVE SPECIFIED ITEM. SPECIAL FEATURES SHALL BE LISTED.
1.7.4.7. BROCHURES IDENTIFICATION BY THE CONTRACTOR THAT THE EQUIPMENT OR MATERIALS ARE SUITABLE FOR CONDITIONS SHOWN AND SPECIFIED; THAT THE EQUIPMENT OR MATERIALS ARE BELIEVED TO BE IN CONFORMANCE WITH THE PLAN AND SPECIFICATIONS; AND THAT THE EQUIPMENT MAY BE SPECIFICALLY DESCRIBED, BE SIGNED BY THE CONTRACTOR. BROCHURES RECEIVED NOT IN CONFORMANCE WITH THESE REQUIREMENTS WILL BE RETURNED FOR REQUIRED ACTION.
1.7.4.8. FINDING "NOT MARKINGS," "APPROVED" OR "APPROVED AS NOTED" SHALL NOT ELIMINATE RESPONSIBILITY FOR COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. UNLESS SPECIFIC ATTENTION HAS BEEN CALLED IN WRITING, TO THE PROPOSED DEVIATIONS AT THE TIME OF TRANSMITTAL OF THE BROCHURES AND SUCH DEVIATIONS HAVE BEEN FOUND ACCEPTABLE, NOR SHALL IT ELIMINATE THE RESPONSIBILITY FOR FREEDOM FROM ERRORS OF ANY SORT IN THE DATA OR DEVIATIONS AT THE TIME OF TRANSMITTAL OR AFTER INSTALLATION SHALL BE CAUSE FOR IMMEDIATE REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER.
1.7.4.9. NO MATERIAL OR EQUIPMENT SO GOVERNED SHALL BE ORDERED UNTIL FOUND ACCEPTABLE BY THE ARCHITECT/ENGINEER/OWNER.
1.8. UTILITY COORDINATION
1.8.1. FOR CONTINUATION OF UTILITIES 6"Ø BEYOND BUILDING REFER TO CIVIL DRAWINGS UNLESS NOTED OTHERWISE.
1.8.2. INSTALL ALL UTILITY CONNECTIONS TO WATER, SEWER, STORM AND GAS PER

- REQUIREMENTS OF GOVERNING AGENCIES. PAY ALL FEES AND PERMITS FOR INSPECTION AND CERTIFICATION FOR THE EXECUTION OF THIS WORK.
1.8.3. TEMPORARY UTILITY SERVICE: ALL REQUIRED UTILITY SERVICES SUCH AS GAS, WATER, AND SANITARY SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR UNDER THE SECTION OF THE SPECIFICATIONS FOR WHICH THEY ARE REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITIES USED DURING CONSTRUCTION.
1.9. EXAMINATION OF SITE:
1.9.1. VISIT THE SITE, INSPECT THE EXISTING CONDITIONS AND CHECK THE DRAWINGS AND SPECIFICATIONS SO AS TO BE FULLY INFORMED OF THE REQUIREMENTS FOR COMPLETION OF THE WORK.
1.9.2. LACK OF VERIFICATION RESULTING IN MISSING INFORMATION SHALL NOT JUSTIFY A REQUEST FOR EXTRA COMPENSATION TO THE CONTRACTOR.
1.10. COMPLY WITH ALL LOCAL CODE, LOCAL UTILITY COMPANY, INDUSTRY STANDARD AND DIVISION TWO (2) REQUIREMENTS FOR UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO:
1.10.1. TRENCHING AND BACKFILLING
1.10.2. SHARED TRENCH SEPARATION REQUIREMENTS.
1.10.3. UTILITY INTERSECTION SPACING AND SEPARATION REQUIREMENTS.
1.10.4. UTILITY WARNING TAPE AND TRACER WIRE REQUIREMENTS.
1.10.5. LOCAL FROST DEPTH REQUIREMENTS.
1.10.6. UTILITY SEPARATION DISTANCE REQUIREMENTS FROM STRUCTURAL FOOTINGS AND FOUNDATIONS.
1.10.7. METALLIC PIPING CORROSION CONTROL REQUIREMENTS.
1.10.8. PIPE GROUNDING REQUIREMENTS.
1.10.9. DISSIPABLE MATERIALS AND METALS TRANSITION FITTING REQUIREMENTS.
1.11. CONNECT ALL PLUMBING FIXTURES TO WATER AND SANITARY LINES.
1.12. ALL UNDERGROUND PLUMBING SUBJECT TO FREEZE SHALL BE INSTALLED BELOW LOCAL AREA FROST LINE MINIMUM. VERIFY SITE FROST DEPTH.
1.13. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS TO PERFORM THE INTENDED SERVICE WITHOUT FAILURE OR DEGRADATION.
1.14. PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNERS PROJECT MANAGER FOR ALL WORK AREAS OUTSIDE BUILDING AND UNDERGROUND.
1.15. ALL PIPING SHALL BE RIGIDLY SECURED.
1.16. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL BELOW GRADE PIPING WITH STRUCTURAL FOOTINGS AND BEAMS PRIOR TO INSTALLATION.
1.17. PROVIDE ACCESS DOORS FOR ALL INACCESSIBLE VALVES AND CLEANOUTS.
1.18. PIPING INSTALLED IN STUD WALLS SHALL BE PROTECTED WITH MINIMUM 1/8" INCH SHIELD PLATES EXTENDING BEYOND THE PIPE IN ALL DIRECTIONS.
1.19. CONTRACTOR IF PRESSURE IS FOUND TO EXCEED 80 PSI, CONTRACTOR SHALL INSTALL A SLEEVE PIPING THROUGH EXTERIOR WALLS, FIRE AND SMOKE RATED WALLS AND ASSEMBLIES, ON GRADE SLAB FLOORS, AND MULTI-STORY FLOORS. ANNULAR SPACE BETWEEN SLEEVE AND PIPE SHALL BE CALKED AND SEALED. FIRE RATED PENETRATIONS SHALL BE FIRE STOPPED TO MEET RATINGS OF CONSTRUCTION PENETRATED. EXTEND SLEEVES A MINIMUM OF 1 INCH ABOVE FLOOR PENETRATIONS IN POTENTIALLY WET AREAS SUCH AS BATHS AND TOILETS.
1.21. ROUTE PIPING WITHIN PARTITIONS OR CHASES. DO NOT REQUIRE FURRING OTHER THAN THOSE SHOWN ON THE DRAWINGS.
1.22. ALL VALVES, FITTINGS AND PIPING SHALL BE SUITABLE FOR INTENDED SERVICE AND SYSTEM CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE IN SUCH A WAY AS TO PREVENT BACK SIPHONAGE WHEN THE WATER SUPPLY IS HOT OR THERE IS A DROP IN PRESSURE.
1.23. PROVIDE COMPLETE DIELECTRIC ISOLATORS BETWEEN FERROUS AND NON-FERROUS METALS. THIS INCLUDES, BUT IS NOT LIMITED TO PIPING, JOINTS, FITTINGS AND PIPE HANGERS.
1.24. VALVES, STRAINERS, CHECK VALVES, AND FITTINGS SHALL BE FULL SIZE OF THE LINE THEY SERVE UNLESS NOTED OTHERWISE.
1.25. MAKE CHANGES TO THE PLANS AFTER LAST FITTING OF LARGER PIPE WHEN SUPPLY PIPES ARE LARGER THAN EQUIPMENT TAPPINGS, REDUCE SIZE IMMEDIATELY PRIOR TO ENTRY.
1.26. PROCEED AS RAPIDLY AS THE BUILDING CONSTRUCTION WILL PERMIT. INSTALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS.
1.27. MAKE CHANGES IN DIRECTIONS WITH FITTINGS. MAKE CHANGES IN MAIN SIZE WITH ECCENTRIC REDUCING FITTINGS. UNLESS OTHERWISE NOTED, INSTALL WATER SUPPLY AND SANITARY PIPING TO BE RIGIDLY SUPPORTED BY THE FOLLOWING METHODS:
1.28. PROVIDE SUFFICIENT EXPANSION LOOPS AND DEVICES NECESSARY FOR A FLEXIBLE PIPING SYSTEM, WHETHER OR NOT SHOWN ON THE DRAWINGS. MAKE BRANCH CONNECTIONS WITH OFFSETS TO PROVIDE FOR PIPE MOVEMENT.
1.29. SUPPORT PIPING INDEPENDENTLY AT PUMPS, COILS, TANKS, AND SIMILAR LOCATIONS, SO THAT WEIGHT OF PIPE WILL NOT BE SUPPORTED BY THE EQUIPMENT.
1.30. PIPE DRAIN LINES FROM DRIP PANS, AIR VENTS, RELIEF VALVES AND SIMILAR LOCATIONS, TO SPILL OVER OR UNDER SIGHT DRAIN, FLOOR DRAIN, FLOOR SINK OR OTHER ACCEPTABLE DISCHARGE POINT, AND TERMINATE WITH A PLAIN END, UNTHREADED PIPE 2" ABOVE THE DRAIN.
1.31. EQUIPMENT ACCESS:
1.31.1. INSTALL PIPING, EQUIPMENT, AND ACCESSORIES TO PERMIT ACCESS FOR MAINTENANCE. RENOVATE PIPE AND/OR RELOCATE ITEMS AS NECESSARY TO PROVIDE SUCH ACCESS AND WITHOUT ADDITIONAL COST TO THE OWNER.
1.31.2. PROVIDE ACCESS DOORS WHERE VALVES, MOTORS, OR EQUIPMENT REQUIRING ACCESS FOR MAINTENANCE ARE LOCATED IN WALLS OR CHASES OR ABOVE CEILINGS. COORDINATE LOCATION OF ACCESS DOORS WITH OTHER TRADES AS REQUIRED.
1.32. MATERIALS AND EQUIPMENT (GENERAL):
1.32.1. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, THOSE OF THE SAME TYPE SHALL BE BY THE SAME MANUFACTURER, AND SHALL BE OF THE BEST QUALITY AND DESIGN AND FREE FROM DEFECTS.
1.32.2. A MANUFACTURER'S NAMEPLATE AFFIXED IN A CONSPICUOUS PLACE WILL BE REQUIRED ON EACH MAJOR COMPONENT OF EQUIPMENT STATING MANUFACTURER'S CAP, MAKE, ADDRESS AND CATALOG NUMBER.
1.32.3. MANUFACTURER'S NAME AND MODEL NUMBERS USED HEREIN AND ON THE DRAWINGS ESTABLISH TYPE AND QUALITY REQUIRED. EQUAL PRODUCTS MAY BE CONSIDERED IF IDENTIFIED IN WRITING TO THE ARCHITECT FOR APPROVAL, 10 DAYS PRIOR TO BID DATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THE ITEMS AND EQUIPMENT SUBSTITUTED FOR THOSE SHOWN ON THE DRAWINGS WILL PHYSICALLY FIT IN THE SPACE ALLOCATED.
1.32.4. TEMPERATURE STORAGE EQUIPMENT AND MATERIALS SHALL BE DELIVERED TO THE SITE AND STORED IN ORIGINAL CONTAINERS, SUITABLY SHELTERED FROM THE ELEMENTS, BUT READILY ACCESSIBLE FOR INSPECTION UNTIL INSTALLED. ALL ITEMS SUBJECT TO MOISTURE DAMAGE (SUCH AS CONTROLS) SHALL BE STORED IN DRY, CONDITIONED SPACES.
1.32.5. PROTECTION: EQUIPMENT SHALL BE THIGHTLY COVERED AND PROTECTED AGAINST WEATHER AND CHEMICAL INJURY. DAMAGE OR DEFECTS DEVELOPING BEFORE ACCEPTANCE OF THE WORK SHALL BE MADE GOOD AT THE CONTRACTOR'S EXPENSE.
1.32.6. DIMENSIONS: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED FIT AVAILABLE SPACE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SIZES AND SHAPES OF EQUIPMENT SO THAT THE FINAL INSTALLATION SHALL SUIT THE TRUE INTENT AND MEANINGS OF THE DRAWINGS AND SPECIFICATIONS.
1.32.7. MANUFACTURER'S DIRECTIONS: SHALL BE FOLLOWED COMPLETELY IN DELIVERY, STORAGE, PROTECTION AND INSTALLATION OF EQUIPMENT AND MATERIALS. THE CONTRACTOR SHALL PROMPTLY GIVE NOTICE IN WRITING OF ANY CONFLICT BETWEEN ANY REQUIREMENT OF THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S DIRECTIONS AND SHALL OBTAIN WRITTEN INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE MANUFACTURER'S DIRECTIONS OR SUCH WRITTEN INSTRUCTIONS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES.
2. SANITARY AND VENT
2.1. PROVIDE A COMPLETE SYSTEM OF WASTE AND VENT LINES FROM ALL FIXTURES. ALL WASTE LINES SHALL BE INSTALLED ON A CONTINUOUS WASTE AND VENT SYSTEM AS REQUIRED BY CODES AND/OR REGULATIONS.
2.2. SLOPE SANITARY SEWER PIPING AS FOLLOWS:
2.2.1. 2-1/2" AND SMALLER: 1/4" PER FOOT.
2.2.2. 3" AND LARGER AT 1/8" PER FOOT.
2.3. PROVIDE CLEANOUTS AT THE END OF EACH RUN, AT ANY CHANGE OF DIRECTION GREATER THAN 45 DEGREES, AT A MAXIMUM OF 50'-0" ON CENTER INSIDE THE BUILDING AND AT A MAXIMUM SPACING OF 100'-0" ON CENTER OUTSIDE THE BUILDING, OR AS SHOWN ON DRAWINGS. PROVIDE ADDITIONAL CLEANOUTS AS NOTED AND/OR REQUIRED TO FULLY CLEAN AND SERVICE PIPING SYSTEMS. LOCATE CLEANOUTS A MINIMUM OF 18 INCHES CLEAR FROM WALLS AND OBSTRUCTIONS TO ALLOW SERVICING. CLEANOUTS SHALL BE OF NOMINAL SIZES FOR PIPES UP TO 4 INCHES AND NOT LESS THAN 4 INCHES FOR LARGER PIPES.
2.4. ALL STACKS SHALL BE SUPPORTED AT THEIR BASE AND AT EVERY FLOOR LEVEL TO THE ROOF LINE.
2.5. VENT PIPING SHALL NOT BE LESS THAN 1-1/2 INCH IN DIAMETER AND SHALL NOT HAVE A DIAMETER LESS THAN HALF THAT OF THE TRAP BEING VENTED.
2.6. ALL CHANGES OF DIRECTION SHALL BE MADE BY THE USE OF 45° WYES, DOUBLE WYES, LONG SWEEP QUARTER BENDS OR 1/8 BENDS.
2.7. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS AND FLOOR SINKS. CONTRACT TRAP PRIMER TO A NEARBY CLEAN WATER SOURCE.
2.8. COORDINATE LOCATION OF VENT PIPING TERMINATION WITH OTHER TRADES AND ARCHITECTURAL FEATURES AND CONDITIONS. PROVIDE A MINIMUM OF 24" FROM THE EDGE OF ROOF AND/OR PARAPET WALLS. PROVIDE OFFSET BELOW ROOF AS REQUIRED. LOCATE ALL NEW VTRS A MINIMUM OF 10'-0" FROM ANY NEW OR EXISTING OUTDOOR INTAKES. FIELD VERIFY EXISTING CONDITIONS. MAINTAIN REQUIRED CLEARANCES TO OUTSIDE AIR INTAKES, WINDOWS, ETC. AS REQUIRED BY ALL APPLICABLE CODES.
2.9. STANDPIPES SHALL BE INDIVIDUALLY TRAPPED AND SHALL EXTEND A MINIMUM OF 18 INCHES AND A MAXIMUM OF 42 INCHES ABOVE THE TRAP WEIR. PROVIDE ACCESS TO ALL STANDPIPES AND DRAINS FOR ROODING.
2.10. PROVIDE AND INSTALL INDIRECT WASTE PIPE FROM BACKFLOW PREVENTER(S) DRAIN CONNECTION TO FLOOR DRAIN. TURN DOWN AND TERMINATE ABOVE FLOOR DRAIN WITH AIR GAP. INDIRECT WASTE PIPING TO BE TYPE "C" HARD COPPER PIPE FOR AND WITH WROUGHT 95-5 SOLDER JOINTS AND E-LECTRIC UNIONS AT ALL IRON-COPPER CONNECTIONS.
2.11. RUN ALL DRAIN LINES FROM EQUIPMENT, OVERFLOW RECEIVERS, ETC. TO NEAREST FLOOR DRAINS. DRAIN LINES SHALL BE INSTALLED WITH MINIMUM 1/8 INCH PER FOOT SLOPE. SECURE BY GUIDES AND SUPPORTS FOR PIPE SIZE SHOWN. NO DRAIN LINE TO BE SMALLER THAN 3/4 INCH.
2.12. PROVIDE FUNNEL RECEPTOR FOR FLOOR DRAINS WHERE REQUIRED TO PREVENT SPILLAGE FROM INDIRECT WASTE LINES.
2.13. FLOOR DRAINS AND CLEANOUTS SHALL BE FURNISHED WITH TOP AND TRIM COMPATIBLE WITH FLOOR COVERING MATERIAL. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH ALTERNATES AFFECTING FLOOR DRAIN AND CLEANOUT TRIM REQUIREMENTS.
2.14. DO NOT INSTALL FIXTURE TRAPS INSIDE EXTERIOR WALLS.

- 2.15. ALL VENT AND BRANCH VENT PIPES SHALL BE SLOPED TO GRAVITY DRAIN BACK TO THE DRAINAGE PIPE.
3. DOMESTIC WATER
3.1. ALL DOMESTIC WATER PIPING SHALL BE LEAD FREE. PIPING WILL BE CONSIDERED LEAD FREE IF THE SOLDER AND FLUX CONTAIN LESS THAN 0.2% LEAD AND THE PIPING AND FITTINGS CONTAIN LESS THAN 8% LEAD.
3.2. DISINFECTION OF DOMESTIC WATER SYSTEMS:
3.2.1. STERILIZE DOMESTIC HOT AND COLD WATER SYSTEMS TO MEET PLUMBING CODE AND HEALTH DEPARTMENT REQUIREMENTS.
3.2.2. AFTER FINAL FLUSHING, OBTAIN HEALTH DEPARTMENT CERTIFICATE OF APPROVAL ON SAMPLES OF WATER TAKEN FROM THE SYSTEMS. (USE A TESTING AGENCY APPROVED BY THE HEALTH DEPARTMENT.)
3.2.3. IF ANALYSIS RESULTS ARE NOT SATISFACTORY, REPEAT THE DISINFECTING PROCEDURES AND RE-TEST UNTIL SPECIFIED STANDARDS ARE ACHIEVED.
3.2.4. VERIFY ALL PARTS OF THE DOMESTIC WATER PIPING SYSTEM HAVE BEEN DISINFECTED. ALL DOMESTIC WATER PIPING SHALL BE PITCHED IN DIRECTION OF FLOW TO ALLOW FOR SYSTEM DRAINING.
3.4. DOMESTIC WATER PIPING SYSTEMS AND EQUIPMENT SHALL BE INSTALLED TO AVOID "DEAD END" RUNS OF PIPING OR AREAS WHERE WATER WOULD BE ALLOWED TO STAND STAGNANT.
3.5. DISINFECT PIPING SYSTEMS AND EQUIPMENT SHALL BE INSTALLED SUCH THAT NORMAL OPERATION OF PIPING SYSTEMS AND EQUIPMENT ALLOWS FOR ADEQUATE FLUSHING AND REFRESHING OF WATER WITHIN THE PIPING SYSTEMS AND EQUIPMENT.
3.6. PROVIDE A COMPLETE AND OPERATING COLD WATER, HOT WATER AND HOT WATER RETURN DISTRIBUTION SYSTEM.
3.7. CONNECT EACH AND EVERY FIXTURE AND APPLIANCE REQUIRING DOMESTIC WATER SERVICE. EACH CONNECTION SHALL BE MADE AS DIRECTED. INSTALL SHUT-OFF VALVES IN HOT AND COLD WATER LINES AHEAD OF CONNECTIONS TO ALL PLUMBING FIXTURES AND EQUIPMENT. FIXTURES AND APPLIANCES THAT ARE FURNISHED WITH VALVES OR SHUT-OFFS NEED NOT TO BE ADDITIONALLY VALVED. EACH FIXTURE SHALL BE VALVED IN AN ACCESSIBLE LOCATION.
3.8. ALL END OF COPPER TUBING SHALL BE SQUARE CUT AND BURRS REMOVED BEFORE ASSEMBLING. JOINTS SHALL BE THOROUGHLY CLEANED WITH SANDPAPER OR EMORY CLOTH BEFORE APPLYING FLUX AND SOLDER.
3.9. ALL PIPING SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS TO MAINTAIN WARRANTY.
3.10. THE DOMESTIC WATER SYSTEM SHALL BE PROTECTED AGAINST WATER HAMMER SHOCK OR SURGE PRESSURE BY ADEQUATE AIR CHAMBERS.
3.11. IF APPLICABLE, CONTRACTOR TO VERIFY WATER PRESSURE AT ENTRY TO BUILDING. IF PRESSURE IS FOUND TO BE LESS THAN ADEQUATE (< 40 PSI UPSTREAM OF WATER METER), A BOOSTER PUMP MAY BE REQUIRED AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. IF PRESSURE IS FOUND TO EXCEED 80 PSI, CONTRACTOR SHALL INSTALL A PRESSURE REDUCING STATION TO BRING INCOMING WATER INTO BUILDING AT A PRESSURE OF LESS THAN 80 PSI.
3.12. A NEAT VAPOR TIGHT INSTALLATION IS REQUIRED WITH ALL JOINTS TIGHT AND NEAT. ALL INSULATION SHALL BE APPLIED AS PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION REQUIREMENTS.
3.13. ALL VERTICAL RISERS SHALL BE SUPPORTED AT EVERY FLOOR AND AT ROOF.
3.14. THE CONTRACTOR SHALL PROVIDE FOR ALL EQUIPMENT AND FIXTURES AND AT ALL POINTS REQUIRING SAME, BACKFLOW PREVENTORS OR VACUUM BREAKERS OF A TYPE APPROVED BY THE DEPARTMENT OF HEALTH AND HUMAN RESOURCES, DIVISION OF HEALTH, WATER CONTROL, AND ENVIRONMENTAL PROTECTION. SUCH DEVICES SHALL BE INSTALLED TO PREVENT BACK SIPHONAGE WHEN THE WATER SUPPLY IS HOT OR THERE IS A DROP IN PRESSURE.
3.15. BACK TO BACK FIXTURES REQUIRING BOTH COLD AND HOT WATER SHALL BE ROUGH-IN WITH COLD WATER ON THE RIGHT, HOT WATER ON THE LEFT, WHILE FACING THE FIXTURE.
3.16. DOMESTIC WATER PIPING SHALL BE INSTALLED TO SLOPE TO DRAIN POINTS. WHERE CONDITIONS DICTATE TRAPPED SECTION OF PIPING, A DRAIN VALVE OR CAPPED TIE SHALL BE INSTALLED TO FACILITATE DRAINING OF THE TRAPPED SECTION OF PIPING.
3.17. DO NOT INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS. WHERE BUILDING DESIGN FORCES INSTALLATION OF PIPING IN EXTERIOR WALLS, INSTALL PIPING ON ROOF SIDE OF EXTERIOR WALL INSULATION AND INCREASE PIPE INSULATION THICKNESS REQUIRED TO NEXT PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS.
3.18. MAKE CHANGES IN DIRECTIONS WITH FITTINGS. MAKE CHANGES IN MAIN SIZE WITH ECCENTRIC REDUCING FITTINGS. UNLESS OTHERWISE NOTED, INSTALL WATER SUPPLY AND SANITARY PIPING TO BE RIGIDLY SUPPORTED BY THE FOLLOWING METHODS:
3.19. PROVIDE SUFFICIENT EXPANSION LOOPS AND DEVICES NECESSARY FOR A FLEXIBLE PIPING SYSTEM, WHETHER OR NOT SHOWN ON THE DRAWINGS. MAKE BRANCH CONNECTIONS WITH OFFSETS TO PROVIDE FOR PIPE MOVEMENT.
3.20. SUPPORT PIPING INDEPENDENTLY AT PUMPS, COILS, TANKS, AND SIMILAR LOCATIONS, SO THAT WEIGHT OF PIPE WILL NOT BE SUPPORTED BY THE EQUIPMENT.
3.21. PIPE DRAIN LINES FROM DRIP PANS, AIR VENTS, RELIEF VALVES AND SIMILAR LOCATIONS, TO SPILL OVER OR UNDER SIGHT DRAIN, FLOOR DRAIN, FLOOR SINK OR OTHER ACCEPTABLE DISCHARGE POINT, AND TERMINATE WITH A PLAIN END, UNTHREADED PIPE 2" ABOVE THE DRAIN.
3.22. EQUIPMENT ACCESS:
3.22.1. INSTALL PIPING, EQUIPMENT, AND ACCESSORIES TO PERMIT ACCESS FOR MAINTENANCE. RENOVATE PIPE AND/OR RELOCATE ITEMS AS NECESSARY TO PROVIDE SUCH ACCESS AND WITHOUT ADDITIONAL COST TO THE OWNER.
3.22.2. PROVIDE ACCESS DOORS WHERE VALVES, MOTORS, OR EQUIPMENT REQUIRING ACCESS FOR MAINTENANCE ARE LOCATED IN WALLS OR CHASES OR ABOVE CEILINGS. COORDINATE LOCATION OF ACCESS DOORS WITH OTHER TRADES AS REQUIRED.
3.23. MATERIALS AND EQUIPMENT (GENERAL):
3.23.1. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, THOSE OF THE SAME TYPE SHALL BE BY THE SAME MANUFACTURER, AND SHALL BE OF THE BEST QUALITY AND DESIGN AND FREE FROM DEFECTS.
3.23.2. A MANUFACTURER'S NAMEPLATE AFFIXED IN A CONSPICUOUS PLACE WILL BE REQUIRED ON EACH MAJOR COMPONENT OF EQUIPMENT STATING MANUFACTURER'S CAP, MAKE, ADDRESS AND CATALOG NUMBER.
3.23.3. MANUFACTURER'S NAME AND MODEL NUMBERS USED HEREIN AND ON THE DRAWINGS ESTABLISH TYPE AND QUALITY REQUIRED. EQUAL PRODUCTS MAY BE CONSIDERED IF IDENTIFIED IN WRITING TO THE ARCHITECT FOR APPROVAL, 10 DAYS PRIOR TO BID DATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THE ITEMS AND EQUIPMENT SUBSTITUTED FOR THOSE SHOWN ON THE DRAWINGS WILL PHYSICALLY FIT IN THE SPACE ALLOCATED.
3.23.4. TEMPERATURE STORAGE EQUIPMENT AND MATERIALS SHALL BE DELIVERED TO THE SITE AND STORED IN ORIGINAL CONTAINERS, SUITABLY SHELTERED FROM THE ELEMENTS, BUT READILY ACCESSIBLE FOR INSPECTION UNTIL INSTALLED. ALL ITEMS SUBJECT TO MOISTURE DAMAGE (SUCH AS CONTROLS) SHALL BE STORED IN DRY, CONDITIONED SPACES.
3.23.5. PROTECTION: EQUIPMENT SHALL BE THIGHTLY COVERED AND PROTECTED AGAINST WEATHER AND CHEMICAL INJURY. DAMAGE OR DEFECTS DEVELOPING BEFORE ACCEPTANCE OF THE WORK SHALL BE MADE GOOD AT THE CONTRACTOR'S EXPENSE.
3.23.6. DIMENSIONS: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED FIT AVAILABLE SPACE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SIZES AND SHAPES OF EQUIPMENT SO THAT THE FINAL INSTALLATION SHALL SUIT THE TRUE INTENT AND MEANINGS OF THE DRAWINGS AND SPECIFICATIONS.
3.23.7. MANUFACTURER'S DIRECTIONS: SHALL BE FOLLOWED COMPLETELY IN DELIVERY, STORAGE, PROTECTION AND INSTALLATION OF EQUIPMENT AND MATERIALS. THE CONTRACTOR SHALL PROMPTLY GIVE NOTICE IN WRITING OF ANY CONFLICT BETWEEN ANY REQUIREMENT OF THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S DIRECTIONS AND SHALL OBTAIN WRITTEN INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE MANUFACTURER'S DIRECTIONS OR SUCH WRITTEN INSTRUCTIONS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING THE DEFICIENCIES.
3.24. COORDINATE LOCATION AND METHOD OF ATTACHMENT OF HANGERS AND SUPPORTS FOR PIPING SYSTEM TO BUILDING STRUCTURE WITH THE STRUCTURAL ENGINEER. ESTABLISH PROPOSED LOCATIONS AND METHODS OF SYSTEM PIPE ANCHORS AND OBTAIN APPROVAL FROM THE ARCHITECT AND STRUCTURAL ENGINEER.
3.25. PEX PIPING SHALL BE SUPPORTED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3.26. ALL OTHER PIPING WITHOUT HUBS SHALL BE RIGIDLY SUPPORTED BY SOLID OR SPLIT RING ADJUSTABLE HANGERS SPACED IN ACCORDANCE WITH THE FOLLOWING TABLE AND SUPPORTED BY SOLID STEEL ROOF FROM NECESSARY INSERTS, LAG SCREWS OR EXPANSION SHIELDS.
3.27. DISTANCE BETWEEN PIPE SUPPORTS:
6.4.1. NPS 3/4" AND SMALLER: 60 INCHES WITH 3/8-INCH ROD.
6.4.2. NPS 1" AND NPS 1-1/4": 72 INCHES WITH 3/8-INCH ROD.
6.4.3. NPS 1-1/2" AND NPS 2": 96 INCHES WITH 3/8-INCH ROD.
6.4.4. NPS 2-1/2": 108 INCHES WITH 1/2-INCH ROD.
6.4.5. NPS 3" TO NPS 6": 10 FEET WITH 1/2-INCH ROD.
6.4.6. NPS 8": 10 FEET WITH 5/8-INCH ROD.
7. EQUIPMENT
7.1. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL EQUIPMENT INDICATED ON DRAWINGS AND AS SPECIFIED, UNLESS NOTED OTHERWISE.
7.2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CODE REQUIREMENTS.
7.3. PROVIDE EQUIPMENT SIZE, CAPACITY AND CHARACTERISTICS AS INDICATED ON DRAWINGS.
7.4. MAINTAIN ALL REQUIRED SERVICE CLEARANCES.
7.5. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
7.6. REVIEW CONNECTION REQUIREMENTS OF FURNISHED FIXTURES PRIOR TO ROUGH-IN. ADJUST ROUGH-IN TO MEET INSTALLATION REQUIREMENTS.
8. FIXTURES
8.1. THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL PLUMBING FIXTURES INDICATED ON ARCHITECTURAL DRAWINGS.
8.2. SET FIXTURES LEVEL, IN PROPER ALIGNMENT WITH WALLS AND FLOORS, AND WITH FIXTURES EQUALLY SPACED.
8.3. PROVIDE SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES AND WITH EACH OTHER.
8.4. PROVIDE FLUSH VALVES IN ALIGNMENT WITH THE FIXTURE, WITHOUT VERTICAL OR HORIZONTAL OFFSETS.
8.5. INSTALL ALL FIXTURE SUPPORTS BEFORE WALL FINISH IS APPLIED.
8.6. GROUT WALL AND FLOOR MOUNTED FIXTURES WATER TIGHT WHERE FIXTURES ARE IN CONTACT WITH WALLS AND FLOORS.
8.7. CALCUL DECK MOUNTED TRIM AT THE TIME OF ASSEMBLY, INCLUDING FIXTURE AND CASEWORK MOUNTINGS. CALK SELF-TRIMMING SINKS INSTALLED IN CASEWORK.
8.8. ALL FIXTURES SHALL BE CLEANED BEFORE SETTING AND THE INSTALLATION SHALL BE LEFT READY FOR USE.
8.9. EACH PLUMBING FIXTURE SHALL BE FITTED WITH ALL NECESSARY AND PROPER FITTINGS, STOPS, TRIM AND OPERATING DEVICES AND SHALL BE LEFT IN PROPER OPERATING CONDITION. THE FINISH OF ALL TRAPS, WALL ESCUTCHEONS, EXPOSED METAL WORK IN

- CONNECTION WITH FIXTURES, TRIMMINGS AND OPERATING DEVICES SHALL BE CHROME PLATED.
8.10. ALL PLUMBING AS WELL AS ARCHITECTURAL DRAWINGS FOR THE LOCATION AND NUMBER OF FIXTURES REQUIRED. IF ANY FIXTURES SHOWN ON ARCHITECTURAL PLANS, BUT NOT ON PLUMBING PLANS, OR VICE VERSA, THESE FIXTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE ARCHITECT'S INTENT AS INDICATED ON THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONED LOCATIONS OF PLUMBING FIXTURES. FIXTURES DESIGNATED FOR HANDICAP USE SHALL BE INSTALLED TO MEET CURRENT APPLICABLE ADA AND/OR ANSI REQUIREMENTS FOR INSTALLATION CLEARANCE AND ACCESS.
8.12. REVIEW CONNECTION REQUIREMENTS OF FURNISHED FIXTURES PRIOR TO ROUGH-IN. ADJUST ROUGH-IN TO MEET INSTALLATION REQUIREMENTS.
9. VALVES
9.1. ALL VALVES OF THE SAME TYPE SHALL BE BY THE SAME MANUFACTURER.
9.2. THE CONTRACTOR SHALL PROVIDE ALL VALVES REQUIRED UNDER THESE SPECIFICATIONS. ALL VALVES SHALL BE INSTALLED SO AS TO BE EASILY ACCESSIBLE FOR CLEANING, INSPECTION AND MAINTENANCE.
9.3. VALVES TWO (2) INCHES AND SMALLER SHALL BE BALL BRASS, SCREW END AND 2-1/2" AND LARGER IRON BODY BRASS MOUNTED FLANGED ENDS.
9.4. VALVE END OF EACH ITEM OF EQUIPMENT AND EVERY PLUMBING FIXTURE SHALL BE SEPARATELY VALVED, ON ALL SERVICES, INCLUDING COLD WATER, ETC. STOPS BELOW FIXTURES SHALL MEET INDIVIDUAL VALVE REQUIREMENTS. VALVES SHALL BE LOCATED IN THE MOST ACCESSIBLE LOCATIONS.
9.5. PROVIDE VALVES WITH A MINIMUM RATING OF 200 PSI (WOG). PROVIDE HIGHER RATING WHERE REQUIRED.
9.6. PROVIDE SHUT-OFF VALVES AND UNIONS AT ALL PIPING CONNECTIONS TO EQUIPMENT.
9.7. ALL VALVING INSTALLED IN THE POTABLE WATER SYSTEM SHALL BE LEAD FREE.
10. TESTING AND INSTRUCTIONS
10.1. PIPING SHALL BE TESTED TO PRESURE SPECIFIED, WHERE PRESSURES ARE NOT SPECIFIED, PIPING SHALL BE TESTED TO 1-1/2 TIMES SERVICE CONDITIONS BEFORE INSULATION IS APPLIED.
10.2. ALL DRAINAGE PIPING, VENT AND WASTE RISERS SHALL BE PLUGGED AND TESTED BY FILLING WITH WATER PRIOR TO TESTING. TESTING SHALL BE CONDUCTED TO 125% OF THE SYSTEM DESIGN PRESSURE. THE SYSTEM SHALL BE TESTED WITH A MINIMUM OF 10 FT OF HEAD.
10.3. ALL COLD AND HOT WATER SUPPLY PIPING SHALL BE TESTED HYDROSTATICALLY TO 1.25 TIMES THE DESIGN PRESSURE. TESTING SHALL BE CONDUCTED PRIOR TO INSTALLATION.
10.4. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. WHERE PIPES OR CONNECTIONS IN NEW PIPING ARE FOUND TO LEAK, THEY SHALL BE MADE TIGHT AND TESTS REPEATED. TESTS SHALL BE HELD FOR MINIMUM OF TWENTY-FOUR (24) HOURS.
10.5. MAKE ALL NECESSARY ADJUSTMENTS TO CONTROLS, DAMPERS, VALVES, ETC., TO OBTAIN BEST OPERATION FIRST WITH EMPTY BUILDING AND LATER UNDER ACTUAL CONDITIONS.
10.6. THOROUGHLY CHECK THE OPERATION OF EACH ITEM OF EQUIPMENT AND CONTROLS. WHILE TESTING, WITHOUT WAITING FOR THE OWNER OR ENGINEER TO COMPLAIN ABOUT THEIR OPERATION, VERIFY THAT SAME ARE WIRED CORRECTLY AND COMPLETELY, NOTIFYING THE OWNER AND REPAIRING ANY DEFECTS. THOROUGHLY INSTRUCT THE OWNER'S REPRESENTATIVE IN THE OPERATION AND CARE OF CONTROLS, INDIVIDUAL EQUIPMENT, AND ENTIRE SYSTEM.
11. EQUIPMENT AND PIPING LABELS
11.1. LABEL ALL EQUIPMENT AND PIPING WITH PHENOLIC NAMEPLATES. PROVIDE BLACK BACKGROUND WITH MINIMUM 1/2 INCH HIGH WHITE ENGRAVED LETTERS.
11.2. IDENTIFY PIPING WITH 1 INCH HIGH STENCILS AND DIRECTIONAL ARROW AT 20 FEET ON THROUGHOUT EQUIPMENT AND AT EACH SIDE OF WALL PENETRATIONS.
12. SITE OBSERVATIONS
12.1. MAKE WRITTEN NOTICE TO THE ARCHITECT/ENGINEER ADEQUATELY IN ADVANCE OF EACH OF THE FOLLOWING ITEMS OF CONSTRUCTION:
12.1.1. IN THE UNDERGROUND CONDITION PRIOR TO CONCRETE FLOOR SLAB POUR.
12.1.2. WHEN ALL ROUGH-IN IS COMPLETE, BUT NOT COVERED BY PERMANENT CONSTRUCTION.
12.1.3. AT THE END OF THE WORK OF THIS SECTION.
12.2. WHEN MATERIAL AND/OR WORKSMANSHIP IS FOUND TO NOT COMPLY WITH THE SPECIFIED REQUIREMENTS, WITHIN THREE DAYS AFTER RECEIPT OF NOTICE OF SUCH NON-COMPLIANCE, THE CONTRACTOR SHALL CORRECT THE DEFICIENCIES AND REPLY TO THE OWNER WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS, ALL AT NO ADDITIONAL COST TO THE OWNER.
13. CLEANING AND PLACING IN SERVICE
13.1. IMMEDIATELY PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL MAKE A FINAL CLEANUP OF DIRT AND REFUSE RESULTING FROM HIS WORK AND SHALL ASSIST IN KEEPING THE PROJECT AREA CLEAN THROUGHOUT THE PROJECT.
13.2. IMMEDIATELY PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL CLEAN ALL MATERIAL AND EQUIPMENT INSTALLED UNDER THIS CONTRACT. DIRT, DUST, PLASTER, STAINS AND FOREIGN MATTER SHALL BE REMOVED FROM ALL SURFACES. DAMAGED FINISHES SHALL BE REPAIRED AND RETURNED TO THEIR ORIGINAL CONDITION.
13.3. MECHANISMS OF ALL EQUIPMENT SHALL BE CHECKED, ADJUSTED AND TESTED FOR PROPER OPERATION. PROTECTIVE DEVICES, SHIELDS AND PARTS SHALL BE CHECKED AND TESTED FOR SPECIFIED AND REQUIRED APPLICATION AND ADJUSTED AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
14. ADJUSTMENT AND INSTRUCTION
14.1. ENERGIZE ALL SYSTEMS, EQUIPMENT AND FIXTURES AND CHECK FOR PROPER OPERATION.
14.2. THE CONTRACTOR SERVICE PERSONNEL SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL SYSTEMS.
15. GUARANTEE
15.1. THE CONTRACTOR GUARANTEES ALL WORK AGAINST ANY DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL AND THAT ALL RACEWAYS, DUCTS, AND PIPING ARE FREE FROM FOREIGN MATERIAL, OBSTRUCTIONS, HOLES, OR BREAKS OF ANY NATURE.
15.2. UPON WRITTEN NOTICE FROM THE ARCHITECT OR OWNER, THE CONTRACTOR SHALL PROMPTLY REMEDY WITHOUT COST TO THE OWNER ANY DEFECTS OCCURRING WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.
16. WARRANTY
16.1. THE CONTRACTOR SHALL PROPERLY EXECUTE IN THE OWNER'S NAME ALL MANUFACTURER'S STANDARD WARRANTY CERTIFICATES APPLYING TO EQUIPMENT INSTALLED ON THE PROJECT AND SHALL DELIVER SAID CERTIFICATES TO THE ARCHITECT/ENGINEER AT COMPLETION OF THE JOB. ALL WARRANTY CARDS SHALL ALSO BE PROPERLY EXECUTED AND DELIVERED TO THE SUPPLIER OR MANUFACTURER'S RECORDS. STANDARD WARRANTIES FOR EQUIPMENT SHALL NOT BE LESS THAN ONE (1) YEAR.
17. TRAINING AND INSTRUCTION
17.1. UPON COMPLETION OF THIS PORTION OF THE WORK, AND PRIOR TO ITS ACCEPTANCE BY THE OWNER, PROVIDE A QUALIFIED REPRESENTATIVE AND FULLY INSTRUCT THE OWNER'S MAINTENANCE PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ITEMS PROVIDED UNDER THIS SECTION. THIS SHALL INCLUDE INSTRUCTION RELATED TO THE OPERATIONAL MODES AND CONTROL MODES OF THE SYSTEMS. NORMAL, OCCUPIED, UNOCCUPIED, START-UP, DECOMMISSIONING, EMERGENCY, WARM-UP, COOL-DOWN, SET-BACK, ENERGY SAVING, TEMPERATURE RESET, DRAIN-DOWN ETC.
17.2. DEMONSTRATE THE CONTENTS OF THE APPROVED OPERATION AND MAINTENANCE MANUAL REQUIRED IN THE "SUBMITTALS" SECTION OF THESE SPECIFICATIONS.
18. START-UP AND INSTRUCTION PROCEDURES
18.1. OPERATION AND MAINTENANCE MANUALS SHALL BE SUBMITTED A MINIMUM OF TWO WEEKS PRIOR TO SYSTEM STARTING AND COMMISSIONING.
18.2. INSTRUCT OWNER AND OWNER REPRESENTATIVES IN OPERATING, ADJUSTMENT AND MAINTENANCE OF EQUIPMENT AND SYSTEMS AS AGREED TO TIMES.
18.3. FOR EQUIPMENT REQUIRING SEASONAL OPERATION, PERFORM INSTRUCTIONS FOR OTHER SEASONS WITHIN SIX MONTHS.
18.4. PREPARE AND INSERT ADDITIONAL DATA IN OPERATING AND MAINTENANCE MANUAL WHEN NEEDED FOR SUCH DATA BECOMES APPARENT DURING INSTRUCTION.
18.5. INSTRUCTION SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING EQUIPMENT AND SYSTEMS:
18.5.1. WATER HEATER.
18.5.2. HOT WATER RECIRCULATION PUMP.
18.5.3. SENSOR OPERATED FAUCETS AND FLUSH VALVES.

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3/21/23
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NEO
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THE DRAWING WAS PREPARED SOLELY AND EXCLUSIVELY FOR EXECUTION OF THE PROJECT IDENTIFIED WITH THESE NUMBERS. THIS DRAWING MAY NOT BE USED ON OTHER PROJECTS OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT AND/OR ENGINEER. THE ARCHITECT AND/OR ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE DRAWING. THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS ARE THE AUTHOR AND/OR DESIGNER OF THE DRAWING. THE ARCHITECT AND/OR ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE DRAWING. THE ARCHITECT AND/OR ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE DRAWING.
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HVAC NOTES AND SPECIFICATIONS

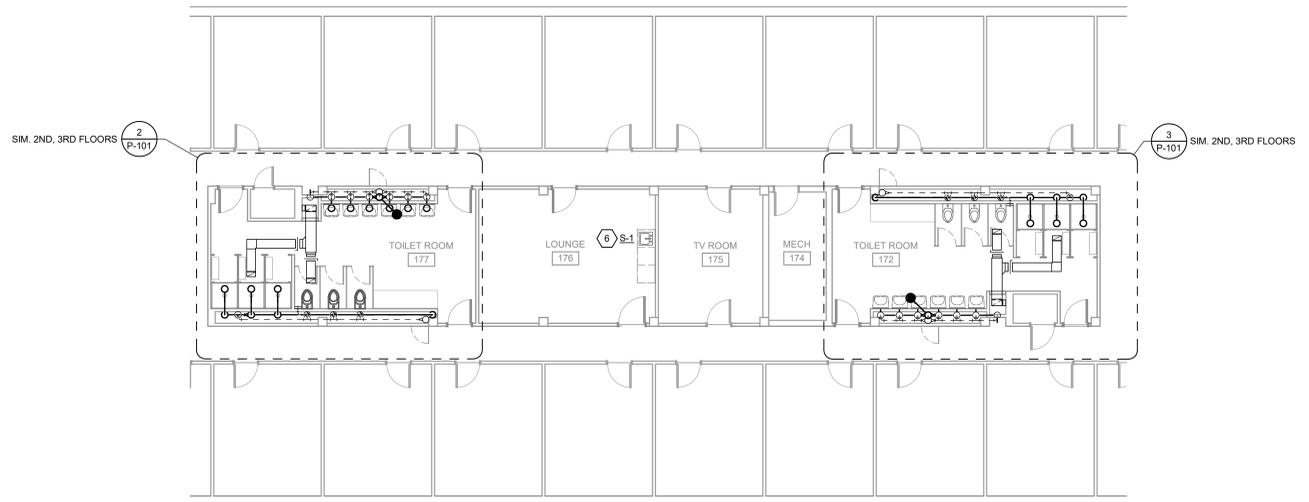
1. HVAC GENERAL
 - 1.1. THE HVAC SYSTEM SHALL BE SIZED AND INSTALLED PER THE LATEST ADOPTED INTERNATIONAL MECHANICAL CODE.
 - 1.2. WORK INCLUDED: PROVIDE HVAC SYSTEMS WHERE SHOWN ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION INCLUDING, BUT NOT NECESSARILY LIMITED TO:
 - 1.2.1. AIR CONDITIONING SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK SYSTEMS WITH GRILLES, DIFFUSERS, REGISTERS, DAMPERS, SHEET METAL HARDWARE, AND RELATED ITEMS.
 - 1.2.2. TEMPERATURE CONTROLS AND SEQUENCES FOR EACH SYSTEM.
 - 1.2.3. ACoustICAL AND THERMAL INSULATION OF DUCTS, PIPING, AND EQUIPMENT.
 - 1.2.4. EXHAUST SYSTEMS INCLUDING, DUCTWORK, GRILLES, REGISTERS, CONTROLS AND RELATED ITEMS.
 - 1.2.5. AIR AND HYDRONIC SYSTEMS BALANCE FOR AIR AND WATER QUANTITIES SHOWN ON THE PLANS.
 - 1.3. RELATED WORK: DOCUMENTS AFFECTING WORK OF THIS SECTION INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO GENERAL CONDITIONS, SUPPLEMENTARY AND SECTIONS IN DIVISION ONE (1) SPECIFICATIONS.
 - 1.4. FIELD CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
 - 1.5. LAYOUT AND WORK COORDINATION
 - 1.5.1. THE HVAC DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, AND APPURTENANCES AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION, SITE CONDITIONS, AND THE WORK OF OTHER TRADES WILL PERMIT. THE HVAC WORK SHALL CONFORM TO THE REQUIREMENTS SHOWN ON ALL OF THE DRAWINGS. DUE TO THE DIAGRAMMATIC NATURE OF THE HVAC DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE STRUCTURAL ELEMENTS, FINISH CONDITIONS AND NEW CONSTRUCTION AFFECTING THE WORK AND SHALL ARRANGE HIS WORK ACCORDINGLY.
 - 1.5.2. LAY OUT THE HVAC SYSTEM IN CAREFUL COORDINATION WITH THE DRAWINGS, DETERMINING PROPER ELEVATIONS FOR ALL COMPONENTS OF THE SYSTEM AND USING ONLY THE MINIMUM NUMBER OF BENDS AND OFFSETS TO PRODUCE A SATISFACTORILY FUNCTIONING SYSTEM.
 - 1.5.3. FOLLOW THE GENERAL LAYOUT SHOWN ON THE DRAWINGS IN ALL CASES EXCEPT WHERE OTHER WORK MAY INTERFERE.
 - 1.5.4. LAY OUT PIPES AND DUCTWORK TO FALL WITHIN PARTITION, WALL, OR ROOF CAVITIES, AND DO NOT REQUIRE FURRING OTHER THAN AS SHOWN ON THE DRAWINGS. DO NOT INSTALL HYDRONIC LINES IN EXTERIOR WALLS OR IN FRONT OF EXTERIOR OPENINGS WITHOUT PROPER CONSIDERATIONS OF REQUIRED INSULATION AND ROUTING.
 - 1.5.5. NO CUTS SHALL BE MADE INTO ANY STRUCTURAL ELEMENT, BEAM OR COLUMN, WITHOUT WRITTEN APPROVAL. OPENINGS IN EXISTING STRUCTURES SHALL BE PROVIDED BY THE TRADE REQUIRING SAME OR AS COORDINATED WITH THE GENERAL CONTRACTOR.
 - 1.5.6. LOCATIONS OF PIPES, DUCTS, SWITCHES, PANELS, EQUIPMENT, FIXTURES, ETC. SHALL BE ADJUSTED TO ACCOMMODATE THE WORK TO ACCOUNT FOR INTERFERENCES ANTICIPATED OR ENCOUNTERED. THE CONTRACTOR SHALL DETERMINE THE EXACT ROUTE AND LOCATION OF EACH PIPE, DUCT AND ELECTRICAL RACEWAY PRIOR TO FABRICATION.
 - 1.5.7. RIGHT-OF-WAY: LINES WHICH PITCH SHALL HAVE THE RIGHT-OF-WAY OVER THOSE WHICH DO NOT PITCH. FOR EXAMPLE, PLUMBING DRAINS SHALL NORMALLY HAVE RIGHT-OF-WAY. LINES WHOSE ELEVATIONS CANNOT BE CHANGED SHALL HAVE THE RIGHT-OF-WAY OVER LINES WHOSE ELEVATIONS CAN BE CHANGED.
 - 1.5.8. OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN PIPES AND DUCTS SHALL BE MADE AS REQUIRED TO MAINTAIN PROPER HEAD ROOM AND PITCH OF SLOPING LINES WHETHER OR NOT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TURNING VANES, CLEANOUTS AND AIR VENTS, ETC., AS REQUIRED TO AFFECT THESE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION.
2. DUCTWORK (GENERAL)
 - 2.1. FABRICATE, PROVIDE, AND INSTALL ALL DUCTWORK IN ACCORDANCE WITH THE 2005 EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND THE LATEST ADOPTED INTERNATIONAL MECHANICAL CODE.
 - 2.2. PROVIDE GALVANIZED SHEET STEEL, COMPLY WITH ASTM A 653/A 653M. PROVIDE G90 GALVANIZED COATING. PROVIDE MILL PHOSPHATIZED FINISH FOR SURFACES EXPOSED TO VIEW.
 - 2.3. REFER TO DUCTWORK SEALANT SCHEDULE. SEAL DUCTWORK WITH HEAVY LIQUID SEALANT (HARDCAST - GALVAGRIP OR APPROVED EQUAL) TO PREVENT LEAKAGE.
 - 2.4. DUCTWORK DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
 - 2.5. PROVIDE SINGLE THICKNESS TURNING VANES AT ALL RECTANGULAR DUCT TURNS GREATER THAN 30 DEGREES. CONSTRUCT TURNING VANES PER LATEST SMACNA DUCT CONSTRUCTION STANDARDS. DO NOT INSTALL TURNING VANES OR SCOOPS AT ENTRANCES TO BRANCH DUCTS.
 - 2.6. PROVIDE ALL OFFSETS AND FITTINGS REQUIRED FOR A COMPLETE SYSTEM. COORDINATE WITH EXISTING CONDITIONS, STRUCTURAL FRAMING MEMBERS, FINISH CONDITIONS AND NEW CONSTRUCTION.
 - 2.7. LAP METAL DUCTS IN DIRECTION OF AIR FLOW. HAMMER DOWN EDGES AND SLIP JOINTS TO LEAVE SMOOTH DUCT INTERIOR.
 - 2.8. INSULATED (MINIMUM R-6) FLEXIBLE DUCTWORK SHALL BE SUPPORTED PER SMACNA AND INDUSTRY STANDARDS. MAXIMUM 5'-0" PER HVAC DUCT CONSTRUCTION STANDARDS, FIGURE 3-9. FLEXIBLE DUCT SUPPORTS. AVOID TIGHT RADIUS TURNS THAT RESTRICT AIRFLOW. WHERE TIGHT RADIUS TURNS ARE NECESSARY PROVIDE RIGID SHEET METAL ELBOWS. PROVIDE SADDLE UNDER FLEXIBLE DUCT HANGER TO SUPPORT DUCT AND PREVENT "PINCHING" OF DUCTWORK. FLEXIBLE DUCT SHALL BE INSTALLED SO AS NOT TO REDUCE CROSS SECTION AREA OF DUCT.
 - 2.9. FLEXIBLE DUCTWORK SHALL BE UL LISTED FOR UL181 CLASS 1 AIR DUCT MATERIAL AND SHALL COMPLY WITH NFPA STANDARDS 90A AND 90B.
 - 2.10. ALL LOW PRESSURE RECTANGULAR DUCTS TO BE SHEET METAL, DUCTBOARD OR LINED DUCTWORK IS NOT ALLOWED UNLESS NOTED OTHERWISE. METAL DUCTWORK SHALL BE GALVANIZED STEEL OR ALUMINUM. CONSTRUCTION DETAILS AND GAUGES SHALL BE ACCORDING TO NFPA BULLETIN 90A AND SMACNA DUCT MANUAL.
 - 2.11. PROVIDE FLEXIBLE CONNECTIONS AND TRANSITIONS TO CONNECT DUCTWORK TO ALL EQUIPMENT.
 - 2.12. PROVIDE MANUAL VOLUME BALANCING DAMPERS AT ALL BRANCH DUCTWORK TO INDIVIDUAL SUPPLY AND EXHAUST DIFFUSERS, GRILLES, AND REGISTERS ON LOW PRESSURE SYSTEMS. LOCATE DAMPER AS CLOSE AS PRACTICAL TO THE MAIN DUCTWORK BRANCH CONNECTION. PROVIDE A COMPLETE WORKING SYSTEM.
 - 2.13. INSTALL DUCTWORK COMPLETELY FREE FROM VIBRATION UNDER OPERATING CONDITIONS. THE CONTRACTOR SHALL COORDINATE ROUTING AND SIZE OF DUCTWORK WITH ACTUAL EXISTING AND FINAL BUILDING CONDITIONS OF STRUCTURE SIZE AND LOCATION, LIGHT LOCATIONS, ARCHITECTURAL FEATURES, AND WORK OF OTHER TRADES. WHERE DUCT SIZES MUST BE REVISED FROM THOSE SHOWN ON THE DRAWINGS, MAINTAIN SAME CROSS SECTIONAL AREA, VELOCITY, AND PRESSURE DROP. WHEN NECESSARY, REROUTE DUCT TO CLEAR OBSTRUCTIONS WITH MINIMUM NUMBER OF FITTINGS AND ELEVATION CHANGES. WHERE DUCT MUST BE SIGNIFICANTLY ALTERED FROM THAT SHOWN ON THE DRAWINGS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING.

GENERAL NOTES

1. HARRILL WING RESTROOMS SHOWN IN VIEW. DOBSON WING RESTROOMS SIMILAR.
2. REBALANCE EXHAUST FANS ON ROOF TO PROVIDE CFM AS SHOWN.

KEYNOTES

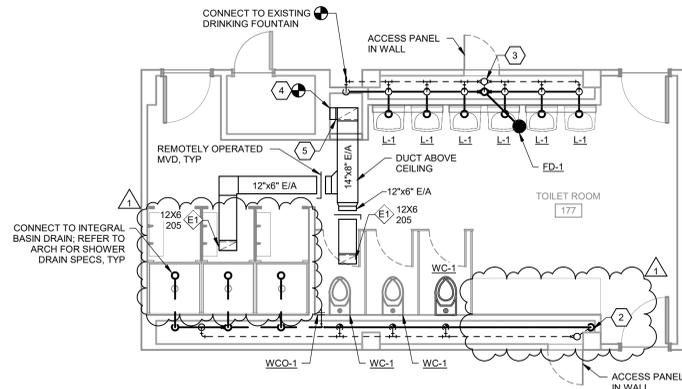
1. REMOVED.
2. SANITARY AND VENT RISER 1; RE: 1M-901.
3. SANITARY AND VENT RISER 2; RE: 2M-902.
4. REMOVE E/A GRILLE AND CONNECT TO EXISTING E/A FROM CHASE.
5. OFFSET UP TO ABOVE CEILING. HOLD AS HIGH AS POSSIBLE. REFER TO ARCH FOR CEILING HEIGHTS.
6. CONNECT SINK TO EXISTING SANITARY RISER.



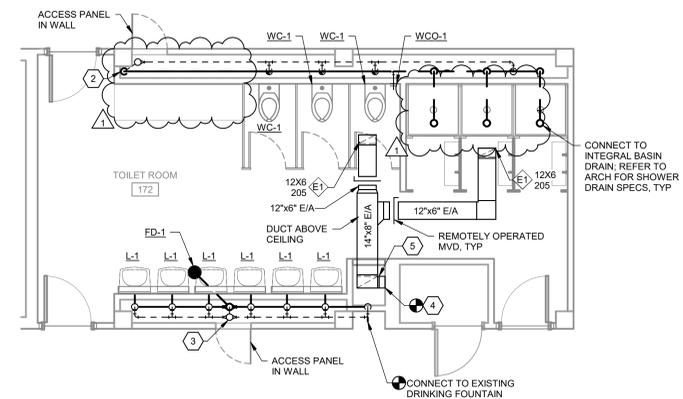
DOBSON-HARRILL DWV AND MECHANICAL FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTE: DEMO ALL PLUMBING FIXTURES AND PIPING FROM UNDERSIDE OF ROOF (EXISTING VTR TO REMAIN) DOWN TO CONNECTION TO THE MAIN IN THE CRAWLSPACE PRIOR TO STARTING INSTALLATION.

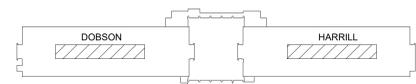
GENERAL NOTE: DEMO ALL PLUMBING FIXTURES AND PIPING FROM UNDERSIDE OF ROOF (EXISTING VTR TO REMAIN) DOWN TO CONNECTION TO THE MAIN IN THE CRAWLSPACE PRIOR TO STARTING INSTALLATION.



DOBSON-HARRILL DWV AND MECHANICAL ENLARGED PLAN #1
1/4" = 1'-0"



DOBSON-HARRILL DWV AND MECHANICAL ENLARGED PLAN #2
1/4" = 1'-0"



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SAMUEL KESSLER GRAVES, PE
ENGINEER OF RECORD

DOBSON-HARRILL RESTROOM RENOVATION
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SHEET NAME
DOBSON-HARRILL DWV FLOOR PLANS

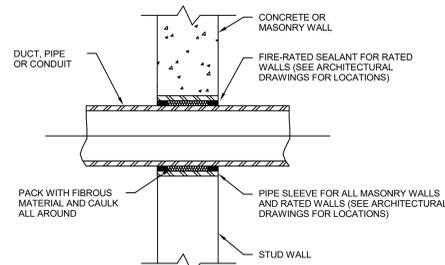
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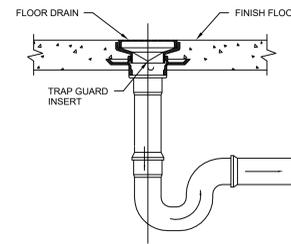
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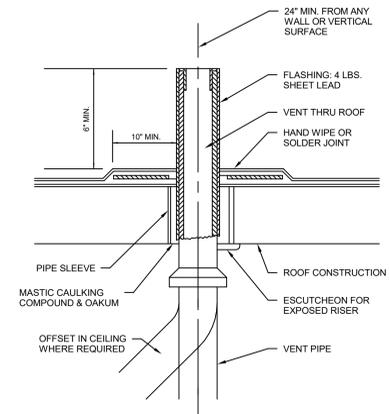


DETAIL NOTES:
1. FOR INSULATED PIPING SIZE SLEEVE ACCORDINGLY.
2. PROVIDE ESCUTCHEONS OR ANGLED STRIPS WHERE PENETRATIONS ARE EXPOSED TO VIEW.

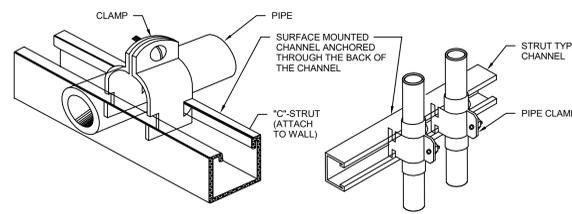
1 TYPICAL PENETRATION DETAIL
NOT TO SCALE



2 FLOOR DRAIN DETAIL
NOT TO SCALE

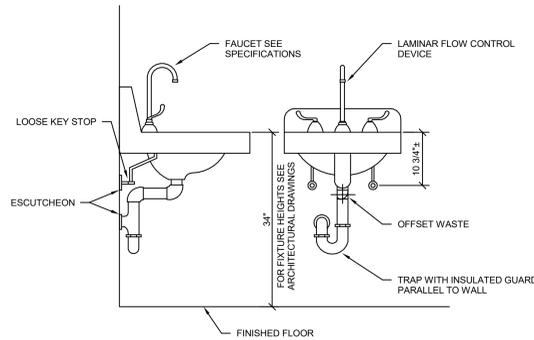


3 VENT THROUGH ROOF DETAIL
NOT TO SCALE

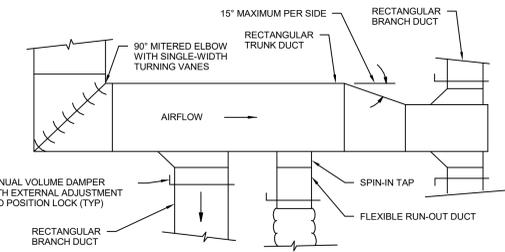


DETAIL NOTES:
1. CLAMP AROUND PIPING INSULATION INSERT.
2. 60\"/>

4 C-STRUT PIPE SUPPORT DETAILS
NOT TO SCALE

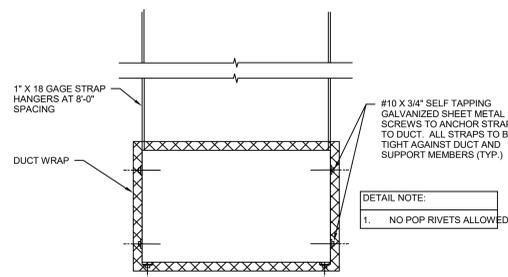


5 ADA WALL HUNG LAVATORY DETAIL
NOT TO SCALE



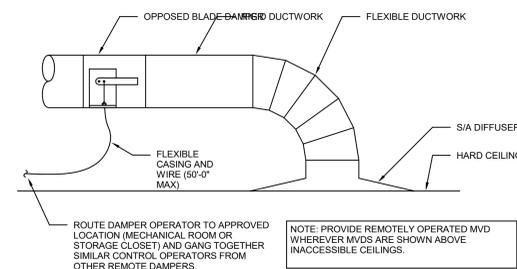
DETAIL NOTE:
1. ALL DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH SMACNA FOR SEAL CLASS 'A'. SEE SPEC FOR INSULATION REQUIREMENTS.

6 LOW PRESSURE DUCT CONSTRUCTION DETAIL
NOT TO SCALE



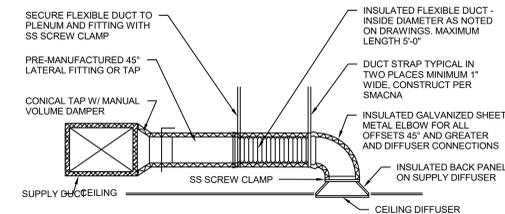
DETAIL NOTE:
1. NO POP RIVETS ALLOWED

7 DUCT STRAP DETAIL
NOT TO SCALE



NOTE: PROVIDE REMOTELY OPERATED MVD WHEREVER MVDs ARE SHOWN ABOVE INACCESSIBLE CEILINGS.

8 REMOTELY OPERATED MVD DETAIL
NOT TO SCALE



DETAIL NOTE:
1. INSULATED (MINIMUM R-6) FLEXIBLE DUCTWORK SHALL BE SUPPORTED PER SMACNA AND INDUSTRY STANDARDS. MAXIMUM 5\"/>

9 CEILING DIFFUSER BRANCH DUCT DETAIL
NOT TO SCALE



DOBSON-HARRILL RESTROOM RENOVATION
NEO

200 STREET NORTHEAST
TULSA, OK 74104

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ISSUES / REVISIONS

DATE	DESCRIPTION
03/29/2023	ISSUE FOR CONSTRUCTION

ISSUE DATE: 03/29/2023
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SHEET NAME
PLUMBING DETAILS

SHEET NUMBER
P-501



CYNTERY
810 S CINCINNATI AVE, STE 200
TULSA, OK 74119
918.877.6000

CYNTERY ENGINEERING, PLLC
LICENSE # 3537 | EXPIRES 06/30/2024

AIR DEVICE SCHEDULE

MARK	MANUFACTURER MODEL	SERVICE	TYPE	MOUNTING	FACE SIZE	MATERIAL	REMARKS
E1	TITUS 25RL	E/A	LOUVERED	SURFACE	SEE PLANS	ALUM.	ALL

REMARKS:
1. PROVIDE STANDARD WHITE FINISH.
2. REFER TO PLANS FOR NECK SIZE.
3. PROVIDE SPECIFIC MODEL/MANUFACTURER OR APPROVED EQUAL.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURE MODEL	TRIM	CONNECTIONS				REMARKS
				WASTE	VENT	DCW	DHW	
WC-1	WATER CLOSET (WALL HUNG, FLUSH VALVE, SIPHON JET)	ZURN Z5615-BWL	FLUSH VALVE: ZURN MODEL Z8000AV-HET 1.28 GPF; SEAT: ZURN MODEL Z8955SS-EL OPEN FRONT ELONGATED; CARRIER: ZURN MODEL Z1201/1202; FIXTURE COLOR: WHITE	4"	2"	1 1/4"	--	1,2
UR-1	REMOVED	--	--	--	--	--	--	--
L-1	LAVATORY (WALL HUNG, ADA)	ZURN Z5344	FAUCET: ZURN MODEL Z81000-XL-28M 2-HOLE DRILLING ON 4" CENTERS, 0.5 GPM AERATOR; GRID STRAINER DRAIN: ZURN MODEL Z8743-PC; CARRIER: ZURN Z1231; FIXTURE COLOR: WHITE	2"	1 1/2"	1/2"	1/2"	1,4,5,6
S-1	SINK (SINGLE COMPARTMENT, COUNTERTOP, ADA)	JUST SLN-ADA-2017-A-GR	FAUCET: ZURN MODEL Z812A4-XL, 0.5 GPM AERATOR	2"	1 1/2"	1/2"	1/2"	1,4,5,8,10
SH-1	SHOWER HEAD/VALVE	ZURN Z7101-SS-LH	SHOWER HEAD & VALVE: ZURN MODEL Z7101-SS-LH (PRESS, BALANCE, PRESS, & TEMP. CONTROL); CURTAIN ROD WITH ANTI-BACTERIAL WHITE VINYL CURTAIN (WITH HOOKS).	--	--	1/2"	1/2"	1
WCO-1	WALL CLEANOUT	ZURN Z1446	ADJUSTABLE, STAINLESS STEEL WALL COVER	--	--	--	--	7,10

REMARKS:
1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR FINAL FIXTURE LOCATION AND MOUNTING HEIGHTS, MOUNT PER ADA REQUIREMENTS WHERE INDICATED.
2. PROVIDE FLUSH VALVE WITH SWEAT SOLDER ADAPTER AND CAST WALL FLANGE (ESCUTCHEON) WITH SET SCREW.
3. PROVIDE FLUSH VALVE WITH ADA COMPLIANT HANDLE.
4. PROVIDE CHROME PLATED, HEAVY DUTY, COMMERCIAL GRADE, ANGLE SUPPLY (HOT AND COLD, AS REQUIRED) WITH WHEEL HANDLE STOP(S), STAINLESS STEEL FLEXIBLE RISER HOSE(S), AND CHROME PLATED WALL ESCUTCHEON(S).
5. PROVIDE 1/2" GAUGE CHROME PLATED P-TRAP WITH CLEANOUT AND WALL ESCUTCHEON.
6. PROVIDE TRUEBRO INC. HAND LAY-GUARD OR EQUAL UNDERSINK PROTECTIVE PIPE COVERING MODEL 103, FOR WASTE, HOT, AND COLD PIPING, COLOR: WHITE. COVERS SHALL BE SECURED WITH SNAP-CLIP FLUSH REUSABLE FASTENERS. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION MEETING CURRENT ADA STANDARDS WHERE REQUIRED.
7. PROVIDE CAULKED OR THREADED CLEANOUT, EXTEND ACCESS COVER TO FINISHED WALL SURFACE, ENSURE AMPLE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.
8. PROVIDE 1/2" DEEP SINGLE/DOUBLE COMPARTMENT, 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, 3 HOLE DRILLING IN LEDGEBACK, WITH ZURN STRAINER Z8741-17-SS.
9. REMOVED.
10. PROVIDE SPECIFIED MODEL/MANUFACTURER OR APPROVED EQUAL.

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SEALED DOCUMENT

SAMUEL KESSLER GRAVES, PE
ENGINEER OF RECORD

**DOBSON-HARRILL RESTROOM
RENOVATION**
NEO
200 1ST STREET NORTHEAST
MARIETTA, GA 30067

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03/29/2023 ISSUE FOR CONSTRUCTION
1 01/30/2026 ASI 2 (REVIEW)

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SHEET NAME
PLUMBING SCHEDULES

SHEET NUMBER
P-601



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CYNERGY ENGINEERING, PLLC
LICENSE # 3537 | EXPIRES 06/30/2024

KEYNOTES	
1.	SS IN WALL.
2.	SS BELOW FLOOR.
3.	CONNECT TO (E) 4" SS IN CRAWLSPACE. PROVIDE FULL-SIZED CO.
4.	CIRCUIT VENT FOR THREE (3) SHOWER DRAINS.

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ENGINEER OF RECORD

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MARIETTA, GA 30067

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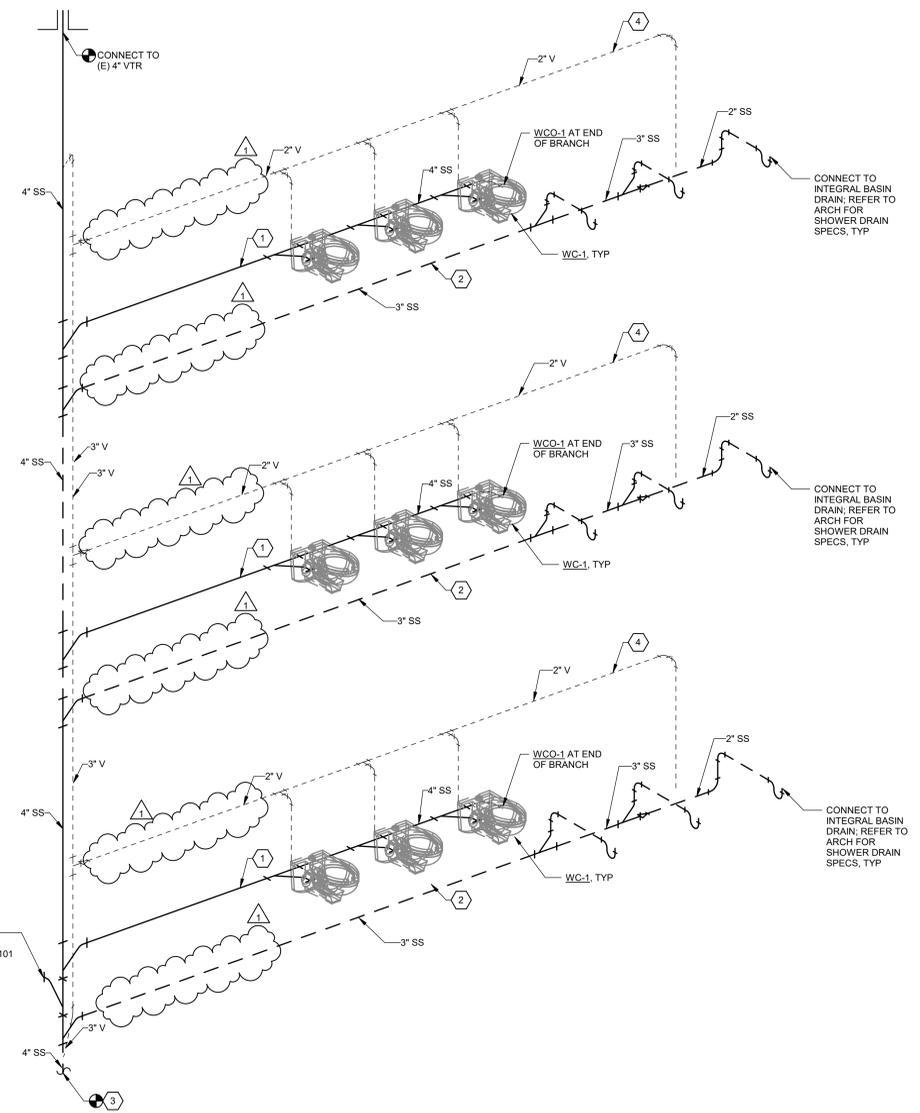
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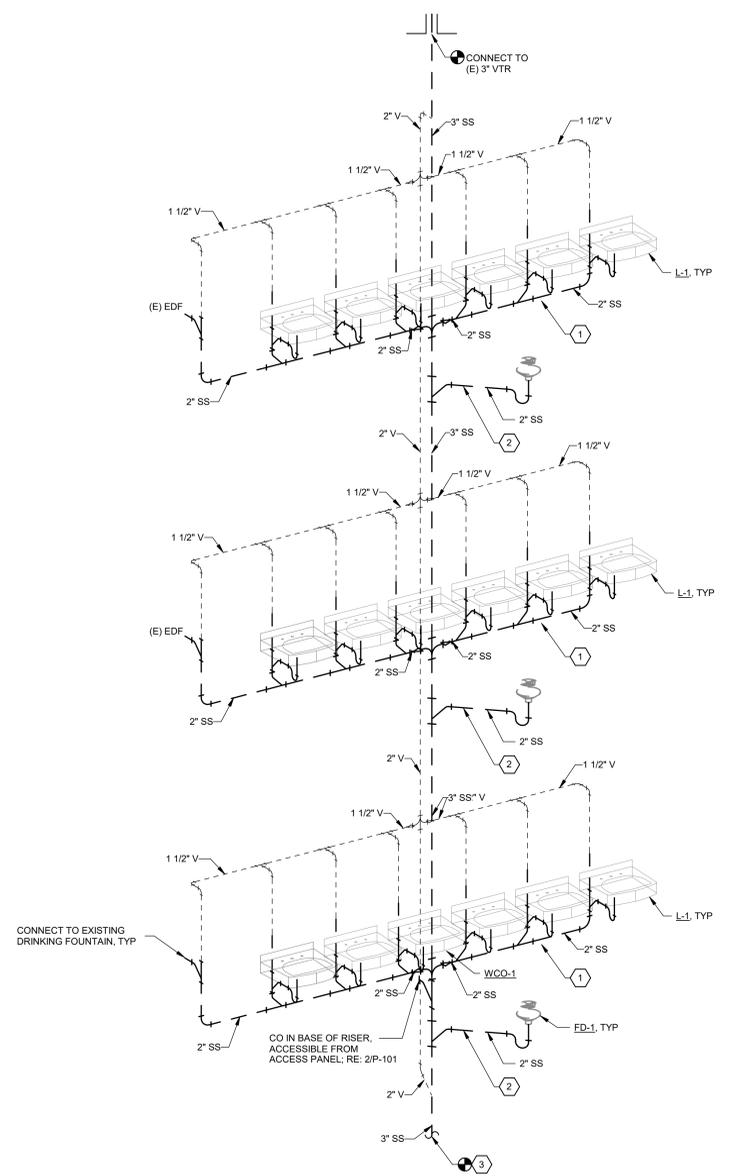
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SANITARY RISER DIAGRAMS

SHEET NUMBER
P-901

Project Number: P00020.0000
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1 SANITARY RISER DIAGRAM 1
NOT TO SCALE



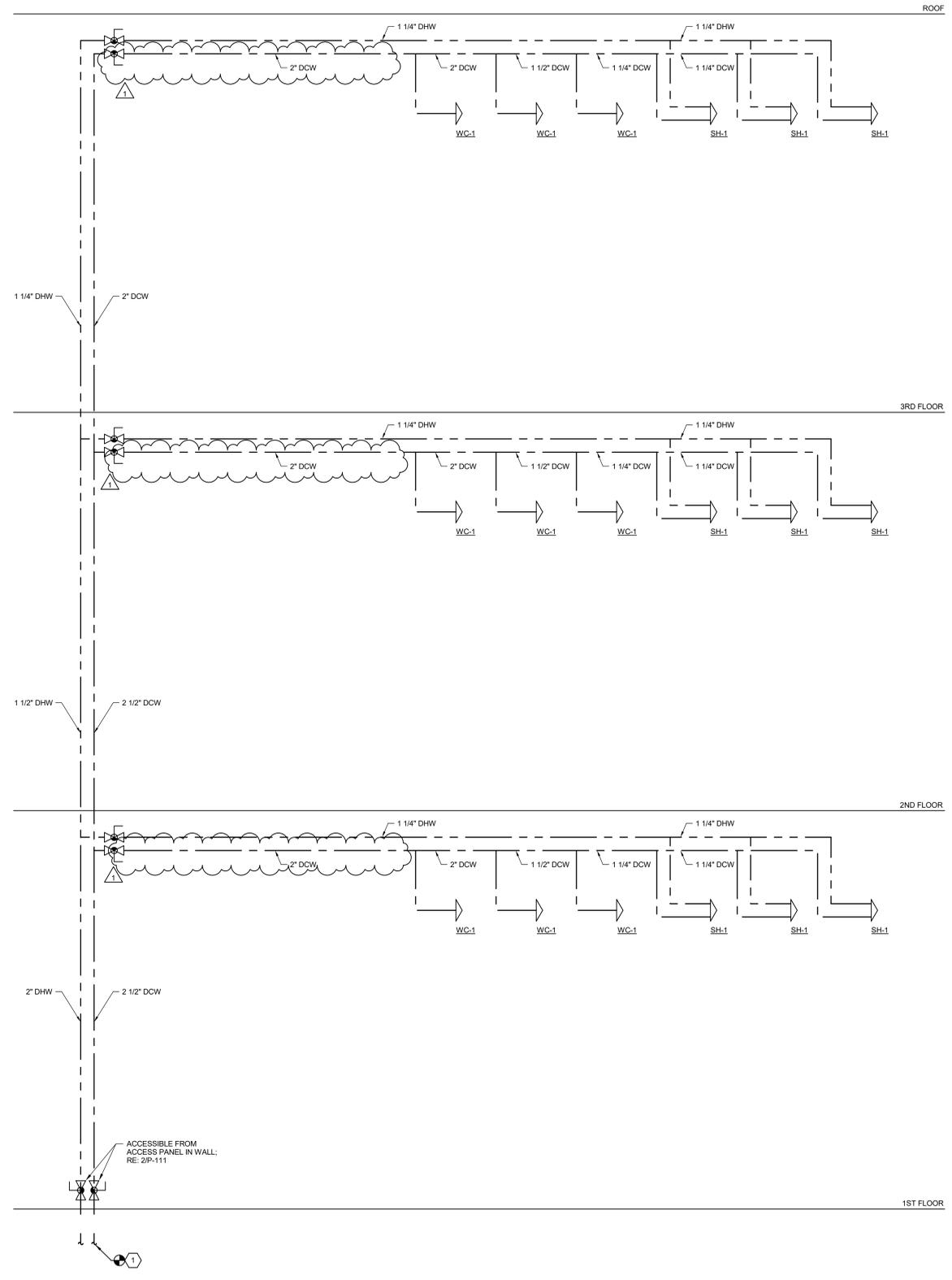
2 SANITARY RISER DIAGRAM 2
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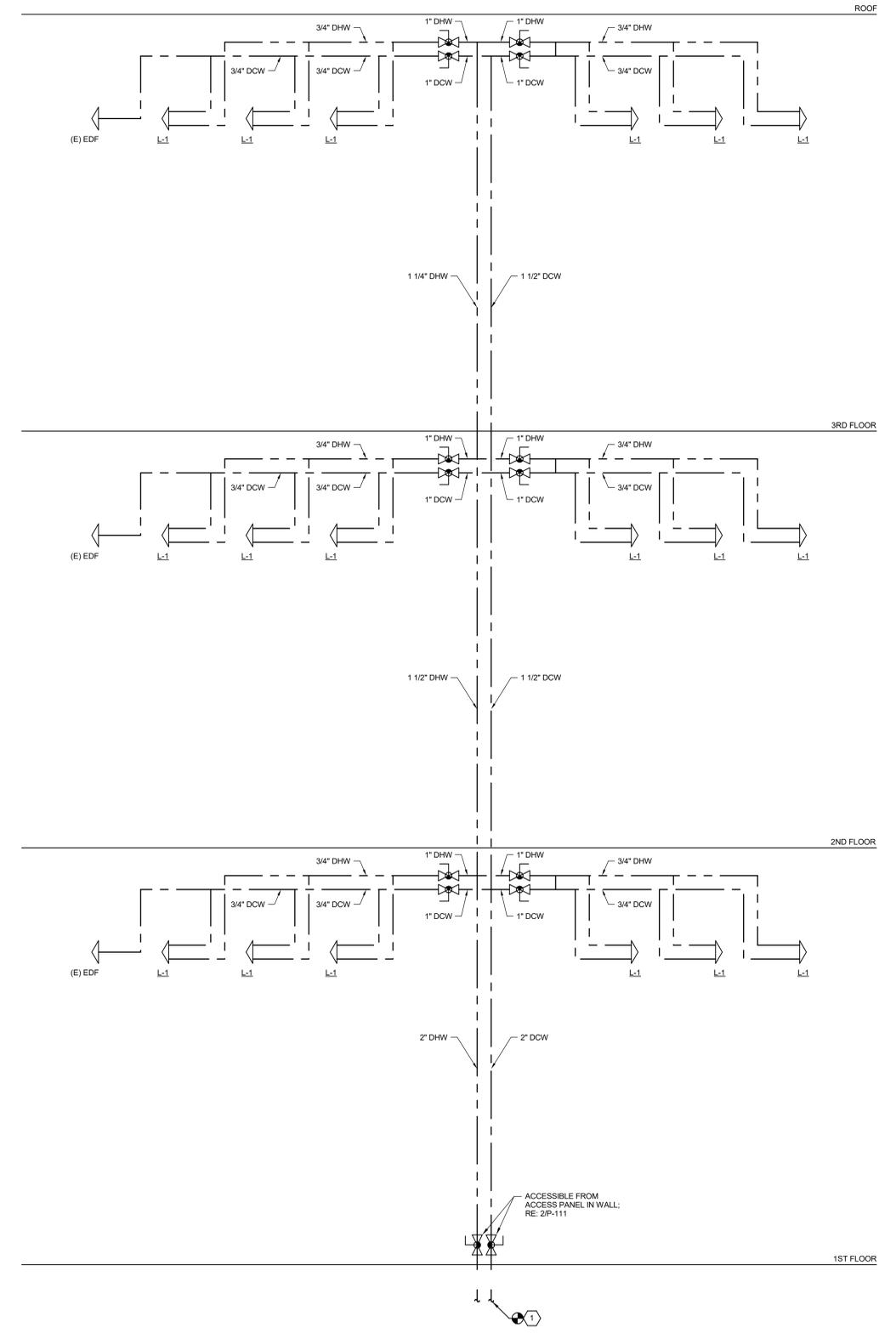
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CYNTERGY ENGINEERING, PLLC
LICENSE # 3537 | EXPIRES 06/30/2024

KEYNOTES	
1.	CONNECT TO (E) 2 1/2" OR LARGER DCW, 2" OR LARGER DHW IN CRAWLSPACE.



1 DCW/DHW RISER DIAGRAM 1
NOT TO SCALE



2 DCW/DHW RISER DIAGRAM 2
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ENGINEER OF RECORD

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DCW/DHW RISER DIAGRAMS

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P-902

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