06/16/2025

3645 EAST CHIPMAN RD. PHOENIX, ARIZONA 85040
USDA APHIS PPQ PHOENIX REARING FACILITY - APHIS-MN-126395

PLUMBING SERVICES REPAIR

100% CONSTRUCTION DOCUMENTS

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VICINITY MAP: *Locator*

SHEET INDEX

GENERAL
G001 COVER SHEET

ARCHITECTURAL
A000 OVERALL PLAN AND CODE ANALYSIS
A001 RESTROOM DEMO AND PROPOSED FLOORPLANS
A002 INTERIOR ELEVATIONS AND LEGENDS
A003 DETAILS & SCHEDULES
A004 OVERALL FINISH PLAN

PLUMBING
P001 PLUMBING SCHEDULES LEGENDS AND DETAILS
PD100 OVERALL PLUMBING DEMOLITION PLAN
PD101 PLUMBING DEMOLITION PLAN - AREA 1
PD102 PLUMBING DEMOLITION PLAN - AREA 2
PD103 PLUMBING DEMOLITION PLAN - AREA 3
PD104 PLUMBING DEMOLITION PLAN - AREA 4
PD105 PHOTO REFERENCES
P100 OVERALL PLUMBING PLAN
P101 PLUMBING PLAN - AREA 1
P102 PLUMBING PLAN - AREA 2
P103 PLUMBING PLAN - AREA 3
P104 PLUMBING PLAN - AREA 4
P201 ENLARGED PLUMBING PLANS

ELECTRICAL
E001 ELECTRICAL LEGENDS
E002 RESTROOM ELECTRICAL PLANS

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Registered Architect
CERTIFICATE NO.
82820
FRANCES
GURAM
Expires 12/31/2026
ARIZONA U.S.A.

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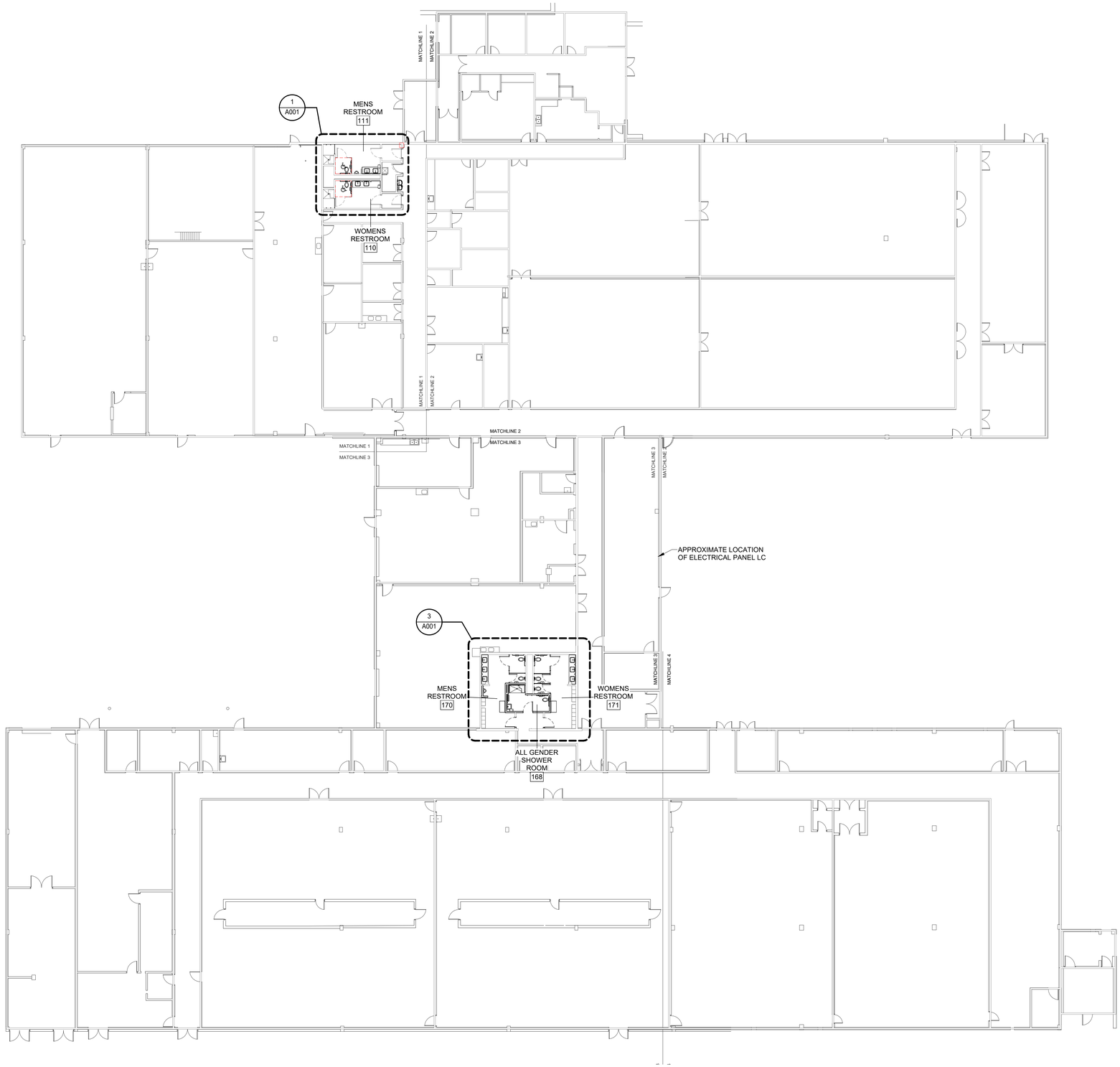
06/16/2025
PROJ# | PROJECT#
DESIGNED BY | BEHRENS
DRAWN BY | CLARK
REVIEWED BY | ROBERTS
REVISIONS

COVER SHEET

G001



1 A000 FIRST FLOOR OVERALL PLAN - FOR REFERENCE ONLY

1/16" = 1'-0"

NORTH REF

CODE REVIEW INFORMATION

APPLICABLE CODES:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
AMERICAN BARRIERS ACT GUIDELINES (ABA)

EXISTING BUILDING:
THE BUILDING IS LOCATED IN PHOENIX ARIZONA AND WAS FIRST CONSTRUCTED AS A FACTORY AND LATER REMODELED TO ITS CURRENT STATE IN 1992. IT IS 4" CONCRETE SLAB ON GRADE - WITH THE EXCEPTION OF THE PIT (3000 PSF). AT THE JOINTS IN THE SLABS, THERE IS A 3' WIDE AREA OF SLAB THICKENING ON EITHER SIDE OF THE TOOLED JOINT. THIS THICKER AREA IS 7.5", STARTING 6" AWAY FROM THE JOINTS AND EVENLY SLOPES TO 4" THICKNESS 1'-6" AWAY FROM JOINTS. AT THE PERIMETER, THE SLAB IS TURNED DOWN FOR 18" MIN WITH #4 REBAR AT THE TOP AND BOTTOM. THE BEARING OF EXISTING FOOTINGS WAS 2500PSF, TYPICAL AND 3500 PSF AT THE PIT.

THE EXISTING ROOF IS SUPPORTED BY OPEN WEB STEEL JOISTS AND 1.5" TYPE B-30 METAL ROOF DECK. MASS WALLS ARE 8" CMU, MORTAR TYPE X, WITH #5 VERTICAL REINFORCEMENT AT CORNERS, INTERSECTIONS, WALLS ENDS, JAMBS, AND JOISTS OR OTHERWISE AT 48" OC WHERE NONE OF THE PREVIOUSLY LISTED CONDITIONS OCCUR. PARTITION WALLS IN AREA OF WORK ARE 2x4 WOOD OR 3-5/8" METAL STUDS WITH 5/8" GYPSUM BOARD. EXISTING BLOCKING IN WALLS IS 2x WOOD

PROJECT OVERVIEW:
THE PROJECT SCOPE IS FOCUSED ON REMEDIATION OF THE EXISTING PLUMBING CONCERNS. THESE INCLUDE REMOVING AND REPLACING PIPING IN SEVERAL AREAS OF THE BUILDING WHICH WILL BE DONE BY SAW CUTTING THE CONCRETE FLOORING, COMPLETING THE PLUMBING WORK AND PATCHING BACK THE FLOORING TO MATCH ADJACENT.

IN ADDITION TO REPLACING PIPING IN RESTROOMS, ALL EXISTING RESTROOM FIXTURES ARE PLANNED TO BE REPLACED IN KIND IN THE SAME LOCATIONS AFTER THE COMPLETION OF PLUMBING WORK. ADDITIONAL VENT REPLACEMENT WORK WILL INCLUDE SOME PARTIAL WALL DEMOLITION AND RECONSTRUCTION TO MATCH PREVIOUS CONDITION.

IN AN EFFORT TO INCREASE ACCESSIBILITY WITHIN THE BUILDING, THE EXISTING SHOWERS AND (1) STALL/URINAL IN THE SOUTH RESTROOMS WILL BE REMOVED AND THIS AREA WILL BE RE-PURPOSED INTO A SINGLE OCCUPANT SHOWER ROOM TO SERVE THE BUILDING. THE SHOWER WILL HAVE NEW WALLS INSTALLED TO ENCLOSE AN ABA ACCESSIBLE SHOWER, WALL-MOUNTED SINK, AND NEW water closet. THE FINISHES AND ACCESSORIES IN THIS ROOM ARE INTENDED TO MATCH THE OTHER MULTI-OCCUPANT RESTROOMS.

TO ACCOMMODATE THE EXTENT OF WORK, AS DETERMINED BY CONTRACTOR, REQUIRED TO REPLACE THE PLUMBING FIXTURES AND VENTS, NEW FINISHES WILL BE INSTALLED AND WILL INCLUDE NEW COUNTERTOPS TO MOUNT SINKS IN, LIGHTING UPGRADES TO LED FOR INCREASED POWER SAVINGS, WALL AND CEILING PAINT, TILE FLOORING, AND TILE BASE ALONG THE WALL TO UPDATE THE EXISTING. SEE MATERIALS SCHEDULE AND INTERIOR ELEVATIONS FOR FULL SCOPE OF WORK.

NO WORK UNDERTAKEN DURING THIS PROJECT WILL INCREASE OR CHANGE OCCUPANCY COUNTS, IMPACT THE OVERALL SQUARE FOOTAGE OF THE BUILDING OR ALTER THE EXISTING EXIT PATHS WHICH EXIST. THESE PORTION OF THE CODE ARE INTENDED TO REMAIN IN WHATEVER CONDITION THEY CURRENTLY EXIST IN AND ARE NOT INCLUDED IN THE CODE ANALYSIS AS A RESULT.

IBC CODE ANALYSIS:
OCCUPANCY CALCULATIONS
EACH ROOM OF THE BUILDING WAS EVALUATED TO DETERMINE A 'WORST CASE SCENARIO BUILDING OCCUPANCY COUNT. THIS TOTAL WAS USED TO CALCULATE THE REQUIRED PLUMBING FIXTURES FOR THE BUILDING

BUSINESS	1 OCC : 150 SF
STORAGE	1 OCC : 300 SF
WAREHOUSE	1 OCC : 500 SF
WORKSHOP	1 OCC : 50 SF
UTILITY	1 OCC : 300 SF
TOTAL:	545 OCCUPANTS (ENTIRE BUILDING)

CHAPTER 29 PLUMBING FIXTURES:
545 OCCUPANTS CONSIDERED (273 MEN AND 273 WOMEN)
REQUIRED FIXTURES BASED ON REQUIREMENTS FOR 'FACTORY' AND 'WAREHOUSE' TO REFLECT THE FUNCTION OF THE BUILDING AS WHOLE, USING THE MORE RESTRICTIVE WHERE THEY VARY

	REQUIRED FIXTURES	PROVIDED FIXTURES
SINKS		
M	1 LAV PER 100 OCC = 3	2 LAVS AT NORTH, 3 AT SOUTH
W	1 LAV PER 100 OCC = 3	2 LAVS AT NORTH, 3 AT SOUTH
water closets*		
M	1 WC PER 100 OCC = 3	2 WC* AT NORTH, 3* AT SOUTH
W	1 WC PER 100 OCC = 3	1 WC AT NORTH, 3 AT SOUTH

*URINALS CAN BE SUBBED FOR NO MORE THAN 50% OF REQUIRED water closets

SHOWERS
ALL NO SHOWERS REQUIRED 2 EXISTING + 1 ABA PROVIDED

ADDITIONAL UNISEX
ABA SHOWER WILL BE GENDER NEUTRAL AND HAVE AN ADDITIONAL water closet AND SINK WHICH WILL SUPPLEMENT THE REQUIREMENT FOR (1) OF EACH FOR EACH GENDER

DRINKING FOUNTAIN
ALL 1 DF PER 400 OCC = 2
2 EXISTING DRINKING FOUNTAINS EXIST, AS WELL AS WATER DISPENSERS IN BREAK ROOMS

JANITOR SINK- NO CHANGES TO JAN SINK

ABA ANALYSIS
F202.3
Alterations are defined in the standards (§F106.5) as "a change in a building or facility that affects or could affect the usability of a building or facility or portion thereof." Many types of projects are covered as "alterations", including remodeling, renovation, rehabilitation, reconstruction, restoration, resurfacing of circulation paths or vehicular ways, and changes or rearrangement of structural parts, elements, or walls. Normal maintenance, reroofing, painting or wallpapering, or changes to mechanical and electrical systems are not considered alterations unless they affect a facility's usability. Only those elements or spaces altered are required to comply, but alterations made to areas containing a primary function (a major activity for which a facility is intended) also require an accessible path of travel.

In a restroom project involving alterations to the water closet, grab bars, faucet controls, and mirror, the standards apply to these elements but not to those that remain unaltered. In more extensive projects where additional elements are altered, application of the standards is greater, commensurate with the scope of work."

*CLEARANCES AT FIXTURES ARE NOTED DASHES LINE AND HANDICAP SYMBOL ON FLOORPLANS ON SHEET A001
**SEE MOUNTING HEIGHT SCHEDULE ON A002 AND CLEARANCE DETAILS ON A003 FOR ADDITIONAL INFORMATION.

FIRE PROTECTION GENERAL NOTE:
GENERAL CONTRACTOR TO ENGAGE A REGISTERED DESIGN PROFESSIONAL, PER THE INTERNATIONAL FIRE CODE SECTION 106.1 (IBC SECTION 107), TO PROVIDE CONSTRUCTION DOCUMENTS/PRELIMINARY WORKING PLANS FOR ALL REQUIRED MODIFICATIONS TO THE EXISTING FIRE PROTECTION SYSTEMS IF REQUIRED BY THE FIRE CODE OFFICIAL. GENERAL CONTRACTOR IS TO ENGAGE FIRE SPRINKLER AND FIRE ALARM CONTRACTORS TO PROVIDE SHOP DRAWINGS/WORKING PLANS PER THE INTERNATIONAL BUILDING CODE SECTION 106.2 (IBC SECTION 107) AND INSTALLATION PER THE REFERENCED INSTALLATION STANDARDS (NFPA) OF THE INTERNATIONAL FIRE CODE, CHAPTER 9. SYSTEMS WITH NO ADDITIONAL SPRINKLER ADDITIONS OR CHANGE OF NFPA 13 FIRE HAZARD OCCUPANCY WILL NOT REQUIRE CALCULATIONS PER NFPA 13.

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Registered Architect
CERTIFICATE NO. 56920
FRANCES QUIRAM
Expires 12/31/2026
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06/16/2025
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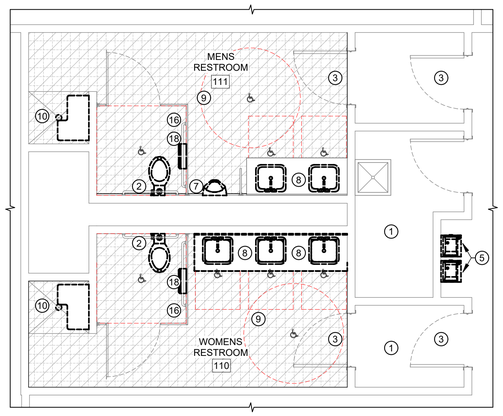
DRAWN BY | CLARK
REVIEWED BY | ROBERTS
REVISIONS

OVERALL PLAN AND CODE ANALYSIS

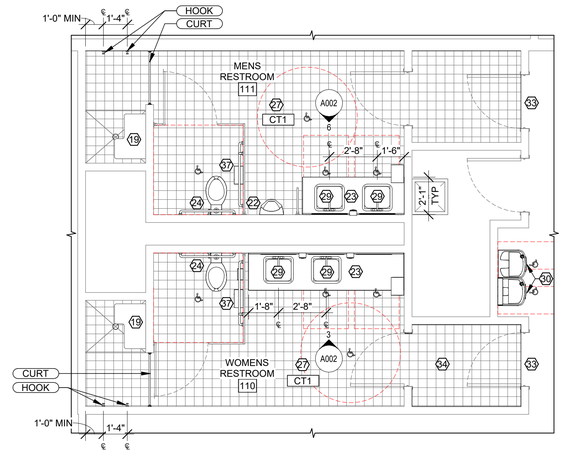
A000



1 A001 ENLARGED NORTH RESTROOM - DEMO

1/4" = 1'-0"

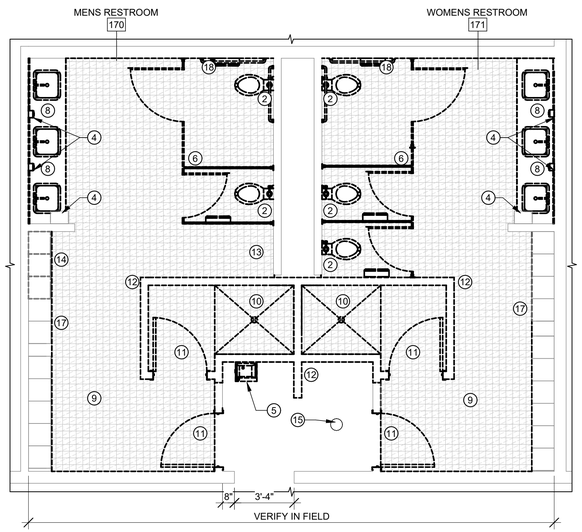
NORTH REF



2 A001 ENLARGED NORTH RESTROOM - NEW WORK

1/4" = 1'-0"

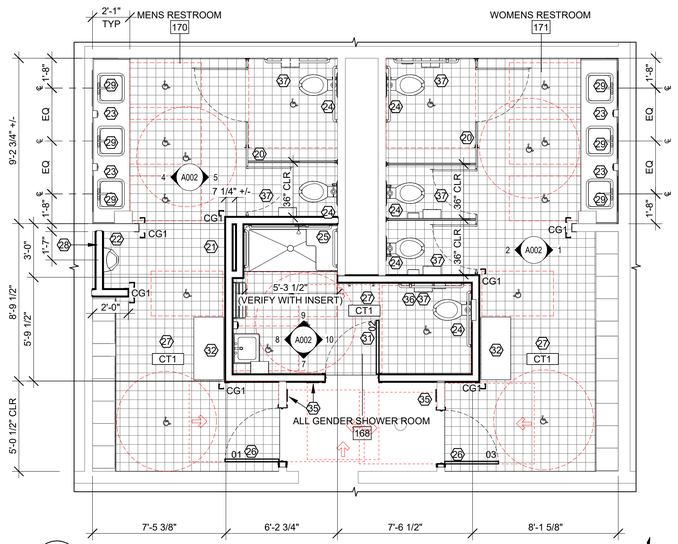
NORTH REF



3 A001 ENLARGED SOUTH RESTROOM DEMO

1/4" = 1'-0"

NORTH REF



4 A001 ENLARGED SOUTH RESTROOM - NEW WORK

1/4" = 1'-0"

NORTH REF

GENERAL NOTES

A. FIELD VERIFY ALL EXISTING CONDITIONS AND ALERT ARCHITECT/ENGINEERS OF ANY DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS.
B. EXISTING GYPSUM WALLS WHICH ARE TO REMAIN ARE TO BE CLEANED, PATCHED, AND REPAIRED AS REQUIRED FOR UNIFORM FINISH IN ENTIRE ROOM. ALL WALLS ARE TO BE PAINTED TO MATCH THE EXISTING PAINT COLOR IN ROOM.
C. CEILING GYPSUM FINISH IN BOTH EXISTING RESTROOMS ARE TO BE COMPLETELY REMOVED TO ACCOMMODATE PLUMBING WORK. FOLLOWING PLUMBING WORK, NEW GYPSUM SHOULD BE INSTALLED IN ROOMS, UTILIZING THE EXISTING CEILING FRAMING, EXCEPT WHERE FRAMING IS REQUIRED TO BE ADJUSTED FOR NEW SHOWER ROOM LAYOUT. PAINT GYPSUM CEILINGS TO MATCH EXISTING CEILINGS AND WALLS.
D. LIGHTING FIXTURES IN RESTROOMS ARE TO BE REMOVED AND NEW LED FIXTURES INSTALLED IN THE SAME LOCATIONS. SEE ELECTRICAL CEILING PLANS ON E001 FOR ADDITIONAL INFORMATION.
E. PROVIDE LAVATORY GUARDS UNDER SINKS ANYWHERE PIPING IS EXPOSED TO VIEW IN ROOM, TYPICAL OF ALL SINKS IN AREAS OF WORK. PROVIDE (2) EXTRA LAV GUARDS TO GOVERNMENT UPON COMPLETION OF WORK.
F. PROVIDE BLOCKING IN WALLS AT ANY NEW WALL MOUNTED EQUIPMENT AND EQUIPMENT THAT IS BEING REPLACED, THIS INCLUDES: COUNTER BRACKETS, GRAB BARS, HOOKS, water closet ACCESSORIES, ETC
G. SLAB CUTTING AND REMOVAL OF CONCRETE IS TO BE KEPT AS MINIMAL AS POSSIBLE TO COMPLETE WORK AS SHOWN IN PLUMBING DRAWINGS. CONTRACTOR TO VERIFY LOCATION AND DIRECTION OF UNDERSLAB LINES PRIOR TO REMOVAL OF CONCRETE.
H. PROVIDE MOLD-RESISTENT GYPSUM BOARD. WHERE ADJACENT TO NEW AND EXISTING PLUMBING FIXTURES.
I. REMOVE ALL EXISTING WATER CLOSET/SHOWER ACCESSORIES, INCLUDING THOSE THAT ARE EXISTING TO REMAIN, CLEAN AND THEN REINSTALL IN THE SAME LOCATION OR AS SHOWN AS NEW WORK PLAN. LOCATE PER MOUNTING HEIGHTS DIAGRAM.

FIRE PROTECTION GENERAL NOTE:
GENERAL CONTRACTOR TO ENGAGE A REGISTERED DESIGN PROFESSIONAL, PER THE INTERNATIONAL FIRE CODE SECTION 106.1 (IBC SECTION 107), TO PROVIDE CONSTRUCTION DOCUMENTS/PRELIMINARY WORKING PLANS FOR ALL REQUIRED MODIFICATIONS TO THE EXISTING FIRE PROTECTION SYSTEMS IF REQUIRED BY THE FIRE CODE OFFICIAL. GENERAL CONTRACTOR IS TO ENGAGE FIRE SPRINKLER AND FIRE ALARM CONTRACTORS TO PROVIDE SHOP DRAWINGS/WORKING PLANS PER THE INTERNATIONAL BUILDING CODE SECTION 106.2 (IBC SECTION 107) AND INSTALLATION PER THE REFERENCED INSTALLATION STANDARDS (NFPA) OF THE INTERNATIONAL FIRE CODE, CHAPTER 9. SYSTEMS WITH NO ADDITIONAL SPRINKLER ADDITIONS OR CHANGE OF NFPA 13 FIRE HAZARD OCCUPANCY WILL NOT REQUIRE CALCULATIONS PER NFPA 13.

PLAN LEGEND

- KEYNOTE
- DIMENSION TO FACE OF FRAMING
- ADA CLEARANCES
- SHOWER/TOILET ACCESSORIES TAGS - SEE A002
- DEMO TILE FLOORING
- TILE FLOORING
- NOT IN SCOPE

DEMOLITION KEYNOTES

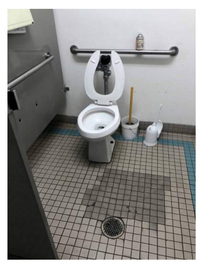
1 SAWCUT FLOORING AS NECESSARY TO COMPLETE PLUMBING WORK IN THIS AREA THEN PATCH BACK. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
2 REMOVE EXISTING WATER CLOSET FIXTURES AND PREP FOR INSTALLATION OF NEW WATER CLOSET FIXTURE IN SAME LOCATION. SEE PLUMBING DRAWINGS FOR FULL SCOPE OF WORK.
3 EXISTING DOOR AND HARDWARE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION OR REMOVE AND REINSTALL.
4 EXISTING SOAP AND PAPER TOWEL DISPENSERS TO BE RE-USED. GOVERNMENT REMOVE AND SAVE FOR REINSTALLATION IN SAME GENERAL LOCATION PER MOUNTING HEIGHTS LEGEND.
5 REMOVE EXISTING DRINKING FOUNTAIN AND PIPING IN WALL. SEE PLUMBING DRAWINGS FOR FULL SCOPE OF WORK.
6 REMOVE EXISTING WATER CLOSET STALL PARTITIONS AND DISPOSE OFF SITE.
7 REMOVE EXISTING URINAL AND PREP FOR INSTALLATION OF NEW FIXTURE IN SAME PLACE. SEE PLUMBING DRAWINGS FOR FULL SCOPE OF WORK.
8 REMOVE EXISTING SINKS, COUNTERTOP, AND BRACKETS AND PREP AREA FOR PLUMBING WORK.
9 EXISTING TILE FLOORING REMOVED IN ENTIRE ROOM TO ACCOMMODATE SLAB CUTTING WORK AS REQUIRED FOR PLUMBING SCOPE. AFTER INFILL OF SLAB CUTTING WORK (PER DETAIL), PREP ENTIRE FLOOR SURFACE FOR INSTALLATION OF NEW TILE PER MANUFACTURER'S INSTRUCTIONS.
10 REMOVE EXISTING FAUCET, TILE, AND WALL MOUNTED SHOWER SEAT IN SHOWER. PREP AREA FOR DRAIN WORK AS REQUIRED. AFTER COMPLETION OF DRAIN WORK, PREP AREA FOR NEW FIXTURES/FINISHES. SEE PLUMBING DRAWINGS FOR FULL SCOPE OF WORK.
11 REMOVE EXISTING DOOR AND FRAMES.
12 REMOVE PORTION OF EXISTING STUD WALLS AND GYPSUM FINISH ENTIRELY WHERE SHOWN DASHED IN ORDER TO RECONFIGURE WALLS AS SHOWN IN NEW WORK PLAN.
13 AREA OF EXISTING URINAL STALL. URINAL PREVIOUSLY REMOVED AND WALL CAVITY OPENED UP. REMOVE EXISTING URINAL CARRIER FROM WALL PRIOR TO STARTING NEW WORK.
14 REMOVE EXISTING LOCKERS WHICH ARE LOCATED IN AREA OF PLANNED NEW URINAL. CUT LOCKER TOP CAPS AS NECESSARY TO FIT NEW WIDTH OF LOCKERS.
15 EXISTING FLOOR DRAIN IN LAMINATE TILES IN HALLWAY TO REMAIN.
16 EXISTING STALL PARTITION TO REMAIN. REMOVE AND REINSTALL AS NEEDED DURING CONSTRUCTION IN ORDER TO COMPLETE PLUMBING WORK. SEE PLUMBING FOR ADDITIONAL INFORMATION.
17 EXISTING LOCKERS TO REMAIN. REMOVE AND REINSTALL AS REQUIRED TO COMPLETE SCOPE OF WORK AS SHOWN IN ARCH AND PLUMBING DRAWINGS.
18 EXISTING GRAB BARS TO REMAIN. VERIFY COMPLIANCE WITH REQUIRED MOUNTING HEIGHTS. WHERE FOUND NOT TO BE IN COMPLIANCE, REMOVE AND REINSTALL AT CORRECT HEIGHTS.

NEW WORK KEYNOTES

19 AREA OF SHOWER TO HAVE NEW TILE INSTALLED TO MATCH THE REST OF ROOM. IN SHOWER AREA, SLOPE NEW FINISH TOWARDS REPAIRED DRAIN. INSTALL NEW PLUMBING FIXTURES, GRAB BARS AND SHOWER SEAT AT LOCATION OF EXISTING. SHOWER SEAT BASIS OF DESIGN: BOBRICK B-5181 REVERSIBLE L-SHAPED FOLDING SHOWER SEAT.
20 NEW POWDER-COATED TOILET STALL PARTITION, COLOR TO MANUFACTURER'S STANDARD COLOR CLOSEST TO EXISTING PARTITIONS. SEE SPECS FOR ADDITIONAL INFORMATION
21 NEW PARTITION WALLS TO BE 3-5/8" METAL STUDS AT 16" OC WITH 5/8" GYPSUM WALLBOARD BOTH SIDES EXCEPT WHERE TILE IS TO BE MOUNTED ON TILE BACKER BOARDS INSTEAD OF GYPSUM BOARD. FILL WALL CAVITY WITH SOUND ATTENUATING BATT INSULATION.
22 NEW URINAL TO BE INSTALLED PER MOUNTING HEIGHTS LEGEND. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.
23 NEW LAMINATE COUNTERTOP TO BE SUPPORTED BY EVENLY SPACED COUNTER BRACKETS AT 3' MAX OC. BRACKETS ARE TO MAINTAIN ADA CLEARANCES.
24 NEW WATER CLOSET FIXTURE TO BE INSTALLED PER MOUNTING HEIGHTS LEGEND. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.
25 NEW SHOWER INSERT, SHOWER SEAT, AND WALL MOUNTED GRAB BARS. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION. INSTALL BLOCKING IN WALLS AT LOCATION OF ANY WALL MOUNTED ITEMS.
26 NEW 36" WIDE HOLLOW METAL DOOR IN HOLLOW METAL FRAMES. SEE DOOR SCHEDULE ON A003 FOR ADDITIONAL INFORMATION ON DOORS AND HARDWARE.
27 FLOORING IN ROOM TO BE PORCELAIN TILE TO REPLACE EXISTING CERAMIC TILE. BASIS OF DESIGN: DALTILE PORTFOLIO 12x24 AND 2x2 WITH COVE BASE, NOCE PF11.
28 NEW PARTITION WALLS TO BE 3-5/8" METAL STUDS AT 16" OC WITH 5/8" GYPSUM WALLBOARD BOTH SIDES EXCEPT WHERE TILE IS TO BE MOUNTED ON TILE BACKER BOARDS INSTEAD OF GYPSUM BOARD. VERIFY SPACING WITH URINAL WALL CARRIER. SEE WITH PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
29 NEW COUNTER MOUNTED SINK. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.
30 NEW DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.
31 NEW 36" WIDE HOLLOW METAL DOOR IN METAL FRAMES. DOOR TO HAVE CLOSER AND PASSAGE HARDWARE WITH DEADBOLT FOR OCCUPANT PRIVACY THAT INCLUDES COLORED OCCUPANCY INDICATOR. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
32 NEW BENCH MOUNTED TO FLOOR ADJACENT TO WALL. BENCH TO BE 42" MIN LENGTH, 20" DEEP (24" MAX), AND SEAT TO BE 18" ABOVE FINISH FLOOR. SECURE BENCH TO FLOOR/WALL WITH BOLTS OR AS OTHERWISE RECOMMENDED BY MANUFACTURER.
33 PROVIDE TRANSITION STRIP UNDER DOORWAY WHERE NEW TILE FLOORING MEETS EXISTING CONCRETE FLOORING IN THE HALLWAY.
34 AFTER COMPLETING PLUMBING WORK, PATCH/REPAIR CONCRETE SLAB PER STRUCTURAL DRAWINGS AND PREP ROOM FOR NEW FLOORING PER MANUFACTURER'S RECOMMENDATIONS.
35 NEW RESTROOM SIGNAGE TO MATCH EXISTING SIGNAGE THROUGHOUT BUILDING. ALL THREE SIGNS TO HAVE ROOM NAMING AND NUMBERING VERIFIED WITH GOVERNMENT. ROOM NAMING AND NUMBERING WILL VARY WITH EACH SIGN.
36 NEW GRAB BARS ARE TO BE INSTALLED PER MOUNTING HEIGHTS LEGEND.
37 NEW TOILET PAPER DISPENSER IN LOCATION OF EXISTING WHICH SHOULD BE REMOVED AND DISPOSED, SEE ACCESSORIES SCHEDULE.

WOMENS NORTH SINK/OUTLET

MENS NORTH SINK



MENS NORTH water closet

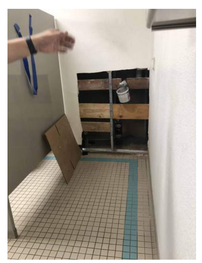
NORTH SHOWER CONDITION

NORTH DRINKING FOUNTAINS

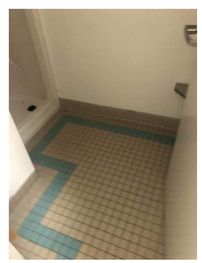
WOMENS SOUTH SINK

WOMENS SOUTH water closet

MENS SOUTH water closet



MENS SOUTH



SOUTH SHOWER, TYPICAL

5 A001 SITE PHOTOS - FOR GENERAL CONTEXT ONLY

NOT TO SCALE

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REVISIONS

RESTROOM DEMO AND PROPOSED FLOORPLANS

A001

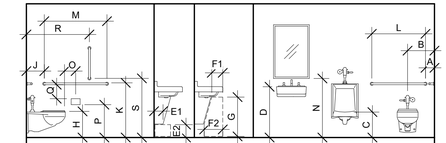
MATERIALS LIST

ITEM NO	PRODUCT TYPE	MANUFACTURER	DESCRIPTION	COLOR	SIZE	NOTES
BASE						
TB1	TILE BASE	DALTILE	PORTOFINO STYLE COVE BASE	NOCE PF11	6" x 12"	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
COUNTER						
LAM	LAMINATE COUNTER	FORMICA	BLACK SHALESTONE MATTE FINISH. APRON AND BACKSPLASH TO MATCH	9527-58		COUNTERS ARE TO HAVE MATCHING 4" BACKSPLASH AND 4" APRON. VERIFY APRON DOES NOT CONFLICT WITH REQUIRED CLEAR KNEE SPACE WHEN INSTALLED.
FLOOR						
CT1	TILE FLOOR	DALTILE	PORTOFINO STYLE FLOOR/WALL TILE	NOCE PF11	2" x 2"	INSTALL AROUND NEW AND EXISTING DRAINS AND FIXTURES IN ROOM
EP1	EPOXY FLOORING FINISH	-	MATCH THICKNESS TO ADJACENT	MATCH TO COLOR AND FINISH OF ADJACENT		
SC1	SEALED CONCRETE	-	SEALED CONCRETE FLOORING FINISH	CLEAR	-	INSTALL SEALANT PER MANUFACTURER'S RECOMMENDATIONS
WALL						
P1	PAINT	SHERWIN WILLIAMS	CEILING TO BE SATIN FINISH, WALLS TO BE SEMI-GLASS FINISH	MATCH EXISTING	-	PAINT TO BE ANTI-MICROBIAL. PAINT WALLS AND CEILINGS SAME COLOR
WALL PROTECTION						
CG1	CORNER GUARD	INPRO	48" TALL, 16 GAUGE STANDARDS CORNER GUARD WITH 2" WING	TBD		MECHANICALLY FASTENED, SELECT MANUFACTURER'S STANDARD COLOR WHICH IS MOST SIMILAR TO WALL PAINT COLOR

GENERAL NOTES

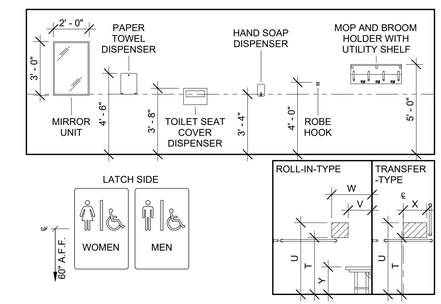
A. FIELD VERIFY ALL EXISTING CONDITIONS AND ALERT ARCHITECT/ENGINEERS OF ANY DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS.
B. EXISTING GYPSUM WALLS WHICH ARE TO REMAIN ARE TO BE CLEANED, PATCHED, AND REPAIRED AS REQUIRED FOR UNIFORM FINISH IN ENTIRE ROOM. ALL WALLS ARE TO BE PAINTED TO MATCH THE EXISTING PAINT COLOR IN ROOM.
C. CEILING GYPSUM FINISH IN BOTH EXISTING RESTROOMS ARE TO BE COMPLETELY REMOVED TO ACCOMMODATE PLUMBING WORK. FOLLOWING PLUMBING WORK, NEW GYPSUM SHOULD BE INSTALLED IN ROOMS, UTILIZING THE EXISTING CEILING FRAMING, EXCEPT WHERE FRAMING IS REQUIRED TO BE ADJUSTED FOR NEW SHOWER ROOM LAYOUT. PAINT GYPSUM CEILINGS TO MATCH EXISTING CEILINGS AND WALLS.
D. LIGHTING FIXTURES IN RESTROOMS ARE TO BE REMOVED AND NEW LED FIXTURES INSTALLED IN THE SAME LOCATIONS. SEE ELECTRICAL CEILING PLANS ON E001 FOR ADDITIONAL INFORMATION.
E. PROVIDE LAVATORY GUARDS UNDER SINKS ANYWHERE PIPING IS EXPOSED TO VIEW IN ROOM, TYPICAL OF ALL SINKS IN AREAS OF WORK. PROVIDE (2) EXTRA LAV GUARDS TO GOVERNMENT UPON COMPLETION OF WORK.
F. PROVIDE BLOCKING IN WALLS AT ANY NEW WALL MOUNTED EQUIPMENT AND EQUIPMENT THAT IS BEING REPLACED, THIS INCLUDES: COUNTER BRACKETS, GRAB BARS, HOOKS, water closet ACCESSORIES, ETC
G. SLAB CUTTING AND REMOVAL OF CONCRETE IS TO BE KEPT AS MINIMAL AS POSSIBLE TO COMPLETE WORK AS SHOWN IN PLUMBING DRAWINGS. CONTRACTOR TO VERIFY LOCATION AND DIRECTION OF UNDERSLAB LINES PRIOR TO REMOVAL OF CONCRETE.
H. PROVIDE MOLD-RESISTENT GYPSUM BOARD. WHERE ADJACENT TO NEW AND EXISTING PLUMBING FIXTURES.
I. REMOVE ALL EXISTING WATER CLOSET/SHOWER ACCESSORIES, INCLUDING THOSE THAT ARE EXISTING TO REMAIN, CLEAN AND THEN REINSTALL IN THE SAME LOCATION OR AS SHOWN AS NEW WORK PLAN. LOCATE PER MOUNTING HEIGHTS DIAGRAM.

PLUMBING FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHTS



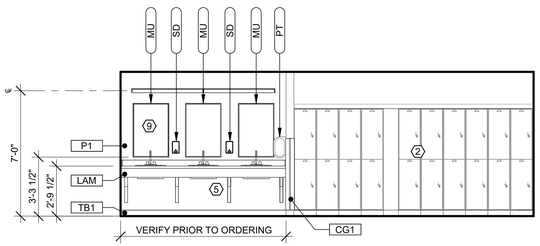
NOTE: THIS ELEVATION IS REPRESENTATIVE OF TYPICAL FIXTURE MOUNTING HEIGHTS AND CLEARANCES. REFER TO PLANS FOR FIXTURES TO BE INSTALLED.

FIXTURE	DIM#	MOUNTING HEIGHT
GRAB BAR	A	6" MAX TO CENTER FROM ADJACENT WALL
TOILET (ADA)	B	16" - 18" TO CENTER FROM ADJACENT WALL
URINAL	C	24" TO RIM ABOVE FINISH FLOOR
URINAL (ADA)	C	17" TO RIM ABOVE FINISH FLOOR
SINK (ADA)	D	34" MAX TO SINK RIM ABOVE FINISH FLOOR
SINK (ADA)	E1	6" DEEP MAX TOE CLEARANCE
SINK (ADA)	E2	9" HIGH MIN TOE CLEARANCE
SINK (ADA)	F1	8" DEEP MIN KNEE CLEARANCE
SINK (ADA)	F2	11" DEEP MIN KNEE CLEARANCE
SINK (ADA)	G	27" HIGH MIN KNEE CLEARANCE
TOILET	H	14" TO TOP OF SEAT
TOILET (ADA)	H	17" - 19" TOP OF SEAT
GRAB BAR (ADA)	J	12" TO CENTER FROM ADJACENT WALL
GRAB BAR	K	33" - 36" TO TOP A.F.F.
GRAB BAR	L	36" OUTSIDE TO OUTSIDE
GRAB BAR	M	42" OUTSIDE TO OUTSIDE
MIRROR	N	40" MAX TO BOT OF MIRROR SURFACE
TOILET PAPER HOLDER	O	7" - 9" TO CENTERLINE FROM TOILET
TOILET PAPER HOLDER	P	19" MIN. TO CENTER ABOVE FINISH FLOOR
TOILET PAPER HOLDER	Q	1 1/2" MIN. FROM BOTTOM OF GRAB BAR
18" VERTICAL GRAB BAR	R	39" - 41" FROM WALL
18" VERTICAL GRAB BAR	S	39" - 41" FROM FLOOR
SHOWER CONTROLS	T	38" MIN. TO BOTTOM ABOVE FINISH FLOOR
SHOWER CONTROLS	U	48" MAX. TO TOP ABOVE FINISH FLOOR
SHOWER CONTROLS	V	16" MIN FROM SEAT WALL
SHOWER CONTROLS	W	27" MAX FROM SEAT WALL
SHOWER CONTROLS	X	15" MAX FROM CENTERLINE
SHOWER SEAT	Y	17" - 19" TOP OF SEAT

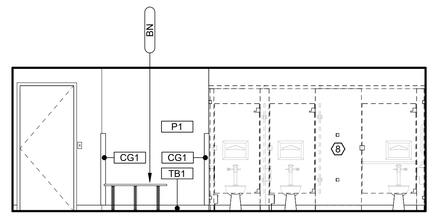


KEYNOTES

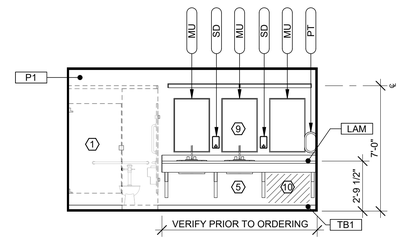
1. EXISTING STALL PARTITION TO REMAIN. REMOVE AND REINSTALL AS NEEDED DURING CONSTRUCTION IN ORDER TO COMPLETE PLUMBING WORK. SEE PLUMBING FOR ADDITIONAL INFORMATION.
2. EXISTING LOCKERS ARE TO REMAIN. REMOVE AND REINSTALL AS REQUIRED TO COMPLETE SCOPE OF WORK AS SHOWN IN ARCH AND PLUMBING DRAWINGS.
3. NEW SHOWER INSERT, SHOWER SEAT, AND WALL MOUNTED GRAB BARS. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION. INSTALL BLOCKING IN WALL AT LOCATION OF ANY WALL MOUNTED ITEMS.
4. NEW URINAL TO BE INSTALLED PER MOUNTING HEIGHTS LEGEND. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.
5. NEW LAMINATE COUNTERTOP TO BE SUPPORTED BY EVENLY SPACED COUNTER BRACKETS AT 3' MAX OC. BRACKETS ARE TO MAINTAIN ADA CLEARANCES. BRACKETS BASIS OF DESIGN TO BE MOCKETT SWS4B - 21"X15" MEDIUM BASIS WORK SURFACE SUPPORT IN BLACK OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
6. NEW TOILET TO BE INSTALLED PER MOUNTING HEIGHTS LEGEND. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.
7. NEW GRAB BARS ARE TO BE INSTALLED PER MOUNTING HEIGHTS LEGEND.
8. NEW POWDER-COATED TOILET STALL PARITION, COLOR TO MANUFACTURER'S STANDARD COLOR CLOSEST TO EXISTING PARTITIONS. SEE SPECS FOR ADDITIONAL INFORMATION
9. NEW MIRROR TO BE INSTALLED PER MOUNTING HEIGHT LEGEND, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. MIRRORS ARE TO BE CENTERED ON SINKS. LIGHTS ARE TO BE CENTERED/EQUALLY SPACED ON COUNTERS OR MIRROR AS SHOWN IN ELEVATIONS AND ELECTRICAL DRAWINGS.
10. AREA OF EXISTING SINK WHICH IS TO BE REMOVED. WALLS ARE TO BE PATCHED AND REPAIRED AFTER PLUMBING IS REMOVED TO BE FLUSH WITH ADJACENT WALLS.
11. NEW SHOWER HEAD AND CONTROLS TO BE INSTALLED PER MOUNTING HEIGHTS LEGEND. SEE PLUMBING DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.



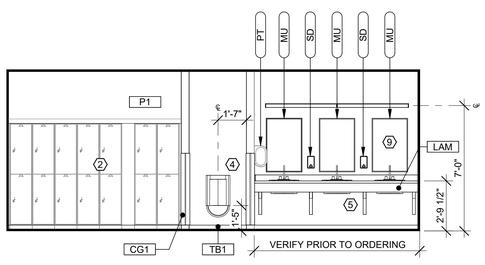
1 A002 WOMENS SOUTH RESTROOM - 171
1/4" = 1'-0"



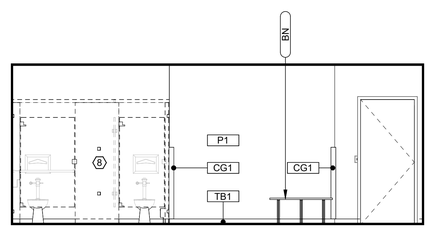
2 A002 WOMENS SOUTH RESTROOM - 171
1/4" = 1'-0"



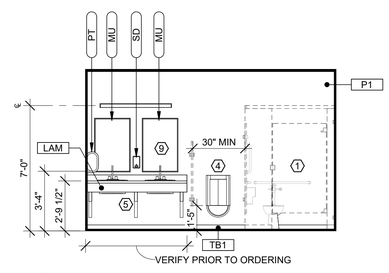
3 A002 WOMENS NORTH RESTROOM - 110
1/4" = 1'-0"



4 A002 MENS SOUTH RESTROOM - 170
1/4" = 1'-0"



5 A002 MENS SOUTH RESTROOM - 170
1/4" = 1'-0"



6 A002 MENS NORTH RESTROOM - 111
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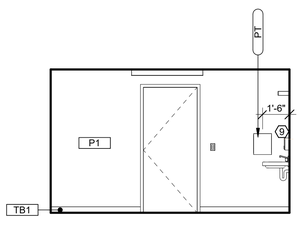
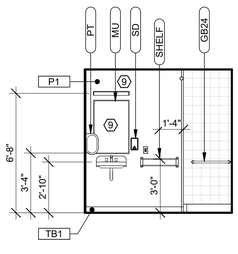
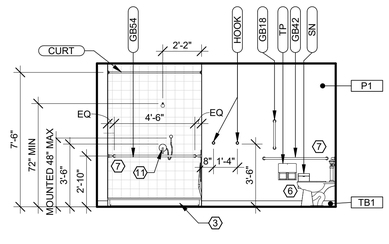


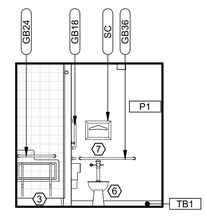
7 A002 SOUTH SINGLE - SOUTH
1/4" = 1'-0"



8 A002 SOUTH SINGLE - WEST
1/4" = 1'-0"



9 A002 SOUTH SINGLE - NORTH
1/4" = 1'-0"



10 A002 SOUTH SINGLE - EAST
1/4" = 1'-0"

ACCESSORIES SCHEDULE

EQ #	DESCRIPTION	BASIS OF DESIGN	PROVIDED BY	INSTALLED BY	NOTES
BN	BENCH	SALSBURY 77781-ADA, 42" ADA BENCH	CONTRACTOR	CONTRACTOR	
CURT	TENSION ROD AND CURTAIN	BOBRICK B-6047 ROD + B2043 CURTAINS	CONTRACTOR	CONTRACTOR	COORDINATE SHOWER CURTAIN FINISH WITH GOVERNMENT, VERIFY WIDTH OF OPENING PRIOR TO ORDERING TENSION ROD
GB18	GRAB BAR	BOBRICK B-9806 FINO SERIES	CONTRACTOR	CONTRACTOR	
GB24	GRAB BAR	BOBRICK B-9806 FINO SERIES	CONTRACTOR	CONTRACTOR	
GB36	GRAB BAR	BOBRICK B-9806 FINO SERIES	CONTRACTOR	CONTRACTOR	
GB42	GRAB BAR	BOBRICK B-9806 FINO SERIES	CONTRACTOR	CONTRACTOR	
GB54	GRAB BAR	BOBRICK B-9806 FINO SERIES	CONTRACTOR	CONTRACTOR	
HOOK	ROBE HOOK	BOBRICK B-9542, SATIN FINISH,	CONTRACTOR	CONTRACTOR	MOUNT AT 42" AFF INTO STUD OR INTO BLOCKING IN WALL
MU	MIRROR	BOBRICK B-2908	CONTRACTOR	CONTRACTOR	
PT	PAPER TOWEL DISPENSER	-	RE-USE/GOV	CONTRACTOR	EXISTING TO BE REINSTALLED, COORDINATE QUANTITY/TYPE WITH GOVERMENT WHO WILL PROVIDE ANY ADDITIONAL NEEDED ITEMS
SC	SEAT COVER DISPENSER	BOBRICK B-221	CONTRACTOR	CONTRACTOR	
SD	SOAP DISPENSER	-	RE-USE/GOV	CONTRACTOR	EXISTING TO BE REINSTALLED, COORDINATE QUANTITY/TYPE WITH GOVERMENT WHO WILL PROVIDE ANY ADDITIONAL NEEDED ITEMS
SHELF	SHELF	BOBRICK B-676 x 24	CONTRACTOR	CONTRACTOR	MOUNT INTO BLOCKING IN WALL AT LOCATION SHOWN IN ELEVATIONS
SN	SANITARY NAPKIN DISPOSAL	BOBRICK B-270	CONTRACTOR	CONTRACTOR	
TP	TOILET PAPER	<varies>	<varies>	<varies>	<varies>

*ALL NEW ACCESORRIES TO BE STAINLESS STEEL, SATIN FINISH TO MATCH UNLESS OTHERWISE NOTED

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PLUMBING SERVICES REPAIR

Registered Architect
CERTIFICATE NO. 82820
FRANCES QUIRAM
Date Signed
ARIZONA U.S.A.

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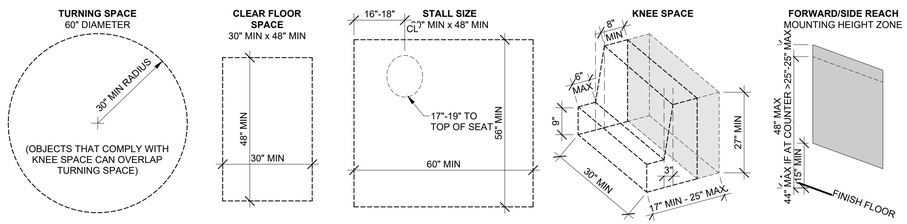
06/16/2025
PROJ# | PROJECT#
DESIGNED BY | BEHRENS
DRAWN BY | CLARK
REVIEWED BY | ROBERTS
REVISIONS

INTERIOR ELEVATIONS AND LEGENDS

A002

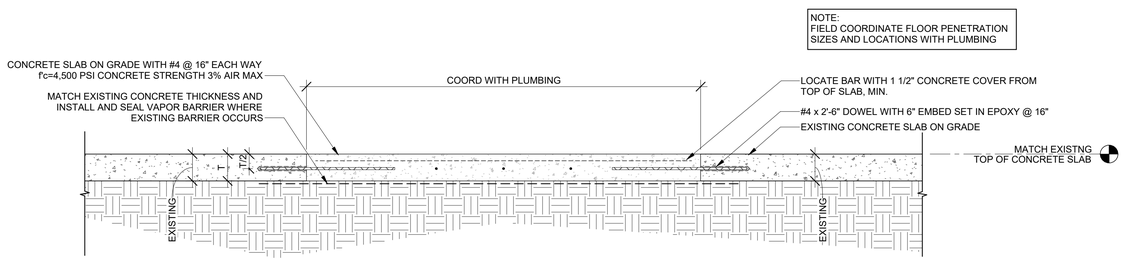
DOOR, FRAME AND HARDWARE SCHEDULE

DOOR NUMBER	ROOM NAME	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR MTL	DOOR TYPE	DOOR NOTES	FRAME MTL	FRAME TYPE	FRAME NOTES	FIRE RATING	HARDWARE THRES	HARDWARE HINGE	HARDWARE LOCK	HARDWARE PUSH PULL	HARDWARE CLOSE	HARDWARE STOP	HARDWARE HOLD	HARDWARE NOTES
01	MENS RESTROOM	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	FLUSH	PAINTED	HOLLOW METAL	2" FRAME	PAINTED	-	A	B	-	D + E	F	G	H	-
02	ALL GENDER SHOWER ROOM	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	FLUSH	PAINTED	HOLLOW METAL	2" FRAME	PAINTED	-	A	B	C	D + E	F	-	H	-
03	WOMENS RESTROOM	3'-0"	7'-0"	1 3/4"	HOLLOW METAL	FLUSH	PAINTED	HOLLOW METAL	2" FRAME	PAINTED	-	A	B	-	D + E	F	G	H	-



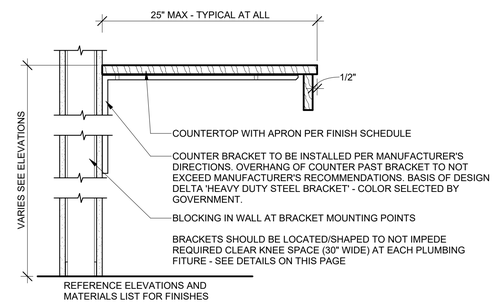
1 / A003 ABA ACCESSIBILITY DIAGRAMS

1/2" = 1'-0"



2 / A003 NEW CONCRETE SLAB AT EXISTING

3/4" = 1'-0"



3 / A003 COUNTERTOP BRACKET DETAILS

1 1/2" = 1'-0"

STRUCTURAL GENERAL NOTES

I. FIELD VERIFY ALL EXISTING CONDITIONS AND ALERT ARCHITECT/ENGINEERS OF ANY DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS.

II. EXTERIOR REPAIR REFERENCES:
- MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2024
  - AVAILABLE FOR FREE REFERENCE ONLINE
- MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) DETAILS FOR PUBLIC WORKS CONSTRUCTION, 2024
  1. SIDEWALK INFILL DETAIL/SECTION SHALL BE PER MAG DETAIL NO. 230.
  2. TRENCHING AND CONCRETE/ASPHALT REPAIR SHALL BE PERFORMED PER MAG SPECIFICATION SECTION 336, "PAVEMENT MATCHING AND SURFACING REPLACEMENT".
  3. TRENCH TYPE FOR PIPE INSTALLATION SHALL BE PER MAG SPEC. SECTION 336.3
  4. CONCRETE AND ASPHALT REPLACEMENT AND ADJUSTMENTS SHALL BE PER MAG SPEC. SECTION 336.2.4. ALL NEW PAVEMENT SHALL MATCH EXISTING ELEVATIONS AND PROVIDE POSITIVE DRAINAGE.

HARDWARE NOTES

- ALL HARDWARE TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED WITH A SATIN FINISH - INTENT FOR ALL PRODUCTS TO MATCH
- INSTALL HARDWARE PER MANUFACTURER'S RECOMMENDATIONS.
- INSTALL HARDWARE WITHIN ACCESSIBLE REACH RANGES

HARDWARE BASIS OF DESIGN

A. TRANSITION STRIP
  a. COORDINATE WITH HEIGHT OF FLOORING TRANSITION
    - INSTALL PER MANUFACTURER'S RECOMMENDATIONS

B. HINGES
  a. (3) MORTISE HINGES PER DOOR LEAF - STAINLESS STEEL, SATIN FINISH

C. DEADBOLT WITH OCCUPANCY INDICATOR
  a. SCHLAGE B571 ON SIDED DEADBOLT WITH COLORED INDICATOR
    - SATIN FINISH

D. PUSH PLATE
  a. IVES 8200 PUSH PLATE, 3.5" x 15"
    - MECHANICALLY FASTENED
    - MOUNT ALL PLATES AT SAME HEIGHT ABOVE FLOOR

E. PULL HANDLE
  a. IVES 8302-0 PULL PLATE W/ INTEGRAL HANDLE, 3.5" x 15"
    - MECHANICALLY FASTENED
    - MOUNT ALL PLATES AT SAME HEIGHT ABOVE FLOOR

F. CLOSER
  a. TELL MANUFACTURING DOOR CLOSER, 300 SERIES
  b. MOUNTED AT HEAD OF DOOR AND TO WALL

G. DOOR STOP - WALL
  a. ROCKWOOD DOOR STOP
    - MOUNTED AT HEIGHT OF DOOR PULL HANDLE

H. DOOR HOLD OPEN
  a. ROCKWOOD KICK DOWN STOP WITH RUBBER BUMPER

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82820
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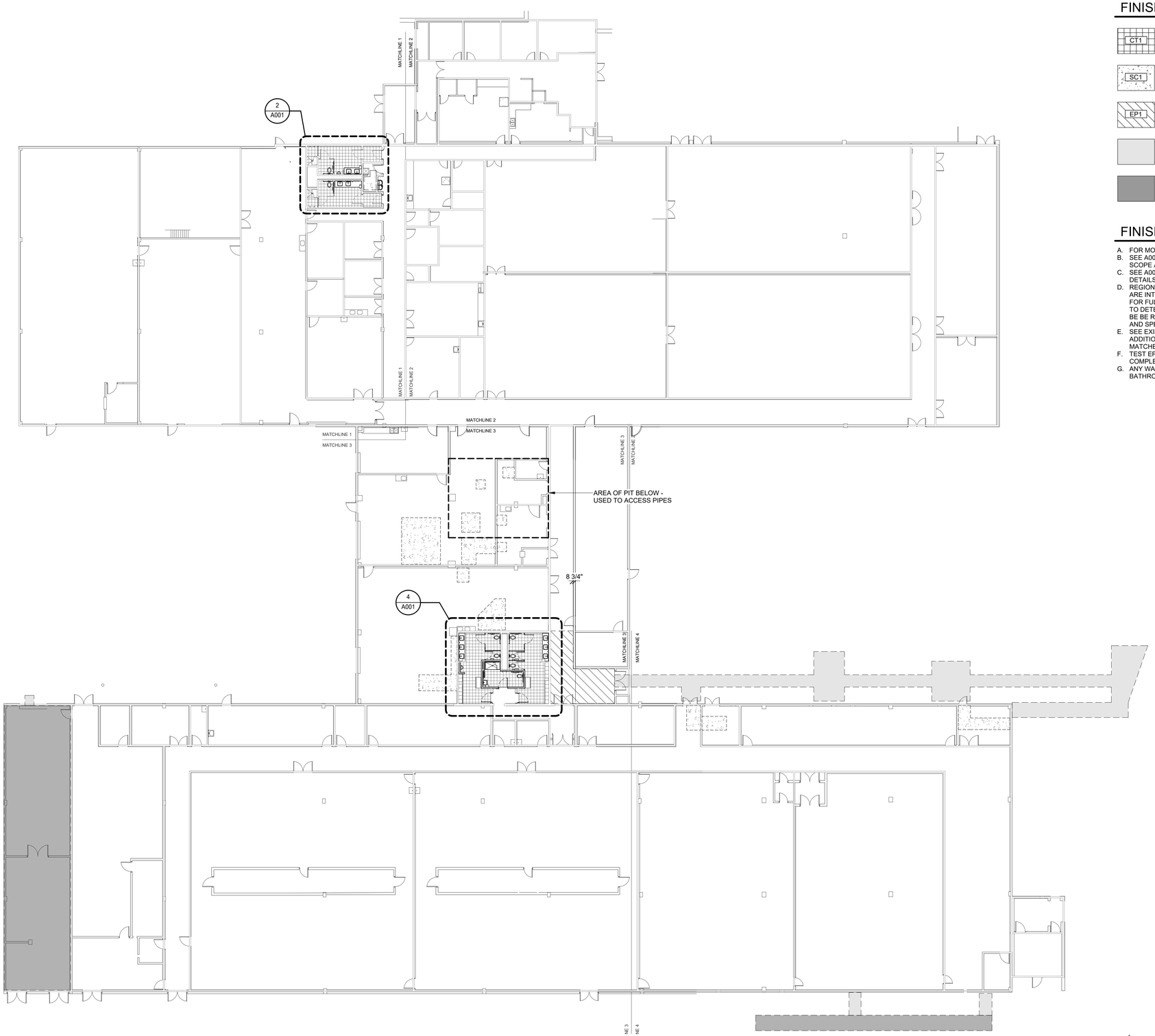
DRAWN BY | CLARK
REVIEWED BY | ROBERTS
REVISIONS

DETAILS & SCHEDULES

A003



1
A004

FIRST FLOOR - ARCH FINISHES INFO

1/16" = 1'-0"

NORTH REF

FINISHES LEGEND

CT1	NEW CERAMIC TILE FLOORING - SEE PLANS AND MATERIALS LEGEND
SC1	EXPOSED CONCRETE, SEALED FINISH WHERE AREA OF SLAB CUTTING/REPOUR, MATCH TO EXISTING ADJACENT
EP1	EPOXY FINISHED CONCRETE TO MATCH ADJACENT COLOR AND THICKNESS FOR AREA OF SLAB CUTTING/REPOUR. EPOXY FINISH TO EXTNED TO ADJCENT WALLS OR AT CLEAN BREAK - SEE APPROXIMATE AREA SHOWN IN PLAN.
	EXTERIOR CONCRETE SIDEWALK TO MATCH ADJACENT - ALIGN TOOLED JOINTS WITH EXISTING - SEE DETAILS/REFERENCE INFO ON A003
	EXTERIOR ASPHALT TO MATCH ADJACENT - SEE DETAILS/REFERENCE INFO ON A003

FINISHES GENERAL NOTES

A. FOR MORE INFORMATION ON FINISHES, SEE MATERIALS SCHEDULE ON A002
B. SEE A001 AND A002 FOR ADDITIONAL INFORMATION ON THE RESTROOM REMODEL SCOPE AND EXTENT OF FINISHES
C. SEE A003 FOR NEW SLAB POUR DETAILS AND ASPHALT NEW POUR REFERENCE DETAILS
D. REGIONS OF NEW FINISHES SHOWN IN PLAN OUTSIDE THE RESTROOM REMODELS ARE INTENDED TO SHOW GENERAL AREAS OF WORK. SEE PLUMBING DRAWINGS FOR FULL EXTENT OF SCOPE WHICH IS TO OCCUR IN THESE AREAS. CONTRACTOR TO DETERMINE THE EXTENT OF SLAB CUTTING/INFILL/NEW FINISHES WHICH WILL BE BE REQUIRED TO COMPLETE THE WORK OUTLINED IN PLUMBING DRAWINGS AND SPECS.
E. SEE EXISTING BUILDING PHOTOS AND REFERENCE TAGS ON 'P' SHEETS FOR ADDITIONAL INFORMATION ON THE EXISTING ADJACENT FLOORING THAT IS TO BE MATCHED IN AREAS OF WORK.
F. TEST EPOXY FINISH IN ONE AREA TO VERIFY MATCH TO ADJACENT PRIOR TO COMPLETION OF INSTALLATION OF THAT FINISH THROUGHOUT BUILDING.
G. ANY WALLS WHICH ARE DAMAGED AS PART OF THE PLUMBING WORK OUTSIDE THE BATHROOM ARE TO BE PATCHED/REPAIRED AND PAINTED TO MATCH ADJACENT.

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DRAWN BY | CLARK
REVIEWED BY | ROBERTS
REVISIONS

OVERALL FINISH PLAN

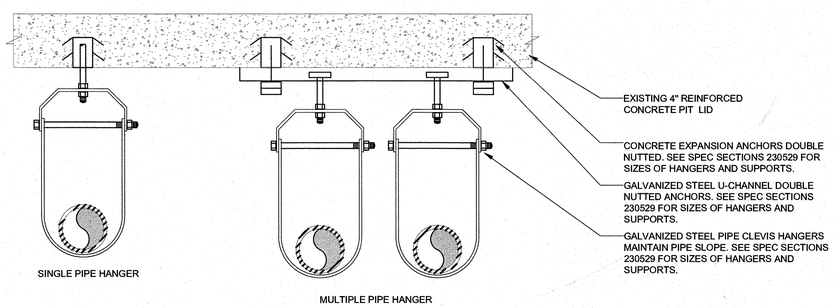
A004

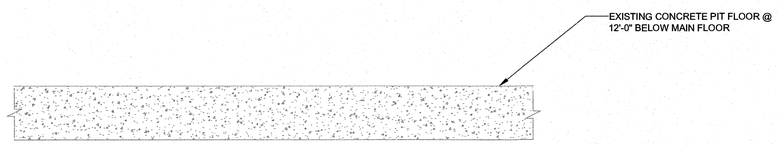
PLUMBING FIXTURE AND CONNECTION SCHEDULE

PLAN CODE	DESCRIPTION	CONNECTIONS			
		COLD	HOT	WASTE	VENT
DF-1	ELECTRIC WATER COOLER/BOTTLE FILLER: ELKAY LVRCTL8WSK, HI-LOW, ADA, FILTERED, 8 GPH, STAINLESS STEEL AND PROVIDE CARRIER. ELECTRICAL CONNECTION TO WATER COOLER - 115V-1PH-60HZ AND FLA 7.0 AMPS.	3/4"	-	1-1/2"	1-1/2"
FCO	FLOOR CLEAN OUT: JAY R SMITH 4021, ADJUSTABLE, CAST IRON WITH NICKLE BRONZE TOP. EPOXY COATED RISER. SEE DRAWINGS FOR SIZES.	-	-	-	-
FD-1	FLOOR DRAIN: JAY R SMITH 2005, ROUND TOP WITH FLASHING COLLAR, CAST-IRON WITH CHROME STRAINER AND PROVIDE WITH TRAP PRIMER CONNECTION. SEE DRAWINGS FOR SIZES.	-	-	2"	2"
FS-1	FLOOR SINK: JAY R SMITH 3101, 8.5"x8.5"x6", CAST-IRON, ACID-RESISTANT COATING, SEDIMENT BUCKET, HALF-GRATE. SEE DRAWINGS FOR SIZES.	-	-	-	-
GCO	GRADE CLEAN OUT: JAYR R SMITH 4221, HEAVY DUTY GRADE, CAST-IRON BODY. EPOXY COATED RISER. SEE DRAWINGS FOR SIZES.	-	-	-	-
L-1	LAVATORY: OVAL DROP IN, KOHLER MODEL K-2214-0, VITREOUS CHINA, WHITE, ADA COMPLIANT. FAUCET: DELTA FAUCETS MODEL 21C152-TI 0.5 GPM CHROME FAUCET WITH DUAL HANDLES. PROVIDE WITH MV-1, ASSE 1070 THERMOSTATIC MIXING VALVE, AND INSTALL MIXING VALVE PER MFG INSTALLATION INSTRUCTIONS, AS HIGH AS POSSIBLE, MAINTAIN ACCESSIBLITY. PROVIDE WITH ADA INSULATION KIT.	1/2"	1/2"	1-1/2"	1-1/2"
L-2	LAVATORY: KOHLER MODEL K-12643 WALL MOUNT, WHITE, VITREOUS CHINA, WITH FAUCET: DELTA FAUCETS MODEL 21C152-TI 0.5 GPM CHROME FAUCET WITH DUAL HANDLES. PROVIDE WITH MV-1, ASSE 1070 THERMOSTATIC MIXING VALVE, AND INSTALL MIXING VALVE PER MFG INSTALLATION INSTRUCTIONS, AS HIGH AS POSSIBLE, MAINTAIN ACCESSIBLITY. PROVIDE WITH ADA INSULATION KIT. PROVIDE WITH FLOOR MOUNT WALL CARRIER.	1/2"	1/2"	1-1/2"	1-1/2"
MV-1	MIXING VALVE: WATTS LFUSG-B M3, ASSE 1070 THERMOSTATIC MIXING VALVE, LEAD FREE BRONZE CONSTRUCTION, CHROME PLATED. 3/8" CW & HW IN. 3/8" CW AND TEMPERED WATER OUT. PIPE MIXING VALVE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.	1/2"	1/2"	-	-
SH-1	ADA TRANSFER SHOWER BASE: BESTBATH MODEL P26331A75B.V2, GRAY, ONE PIECE FIBERGLASS BASE, FOLD DOWN SEAT, ADA GRAB BARS, ADA SHOWER VALVE SYSTEM: SYMMONS MODEL 9605-X-PLR-48-1.5 PRESSURE BALANCING VALVE, 48" MOUNTING GRAB BAR, INTEGRAL SERVICE STOPS, 1.5 GPM HAND SHOWER, 1.5 WALL MOUNT SHOWERHEAD, CHROME FINISH.	1/2"	1/2"	2"	2"
SV-1	SHOWER VALVE SYSTEM: SYMMONS 9601-X-PLR-1.5 PRESSURE BALANCING VALVE, INTEGRAL SERVICE STOPS, WALL MOUNT ADA 1.5 SLIDE/GRAB BAR, 36", ASSEMBLY WITH GRAB BAR MOUNTED SHOWERHEAD, CHROME FINISH.	1/2"	1/2"	-	-
WC-1	WATER CLOSET: KOHLER MODEL K-96057-0, WHITE, 16" ADA MOUNTING HEIGHT, FLOOR MOUNT, 1.28 GPF TOP SPUD WITH FLUSH VALVE: ZURN MODEL ZER6000AV-HYD-HET 1.28 GPF, HYDRO POWER, WITH TRUE MECHANICAL OVERRIDE BUTTON. SEAT: KOHLER MODEL 4670-SC-0. SEAT: KOHLER MODEL 4670-SC-0.	1"	-	4"	2"
WC-2	WATER CLOSET: KOHLER MODEL K-96053-0, WHITE, FLOOR MOUNT, 1.28 GPF TOP SPUD WITH FLUSH VALVE: ZURN MODEL ZER6000AV-HYD-HET 1.28 GPF, HYDRO POWER, WITH TRUE MECHANICAL OVERRIDE BUTTON. SEAT: KOHLER MODEL 4670-SC-0. SEAT: KOHLER MODEL 4670-SC-0.	1"	-	4"	2"
U-1	URINAL: KOHLER MODEL K-4991-ET. WHITE, WALL MOUNT, WASHOUT, 0.5 GPF TOP SPUD WITH FLUSH VALVE: ZURN MODEL ZER6003AV-HYD .125 GPF, HYDRO POWER, WITH TRUE MECHANICAL OVERRIDE BUTTON. PROVIDE WITH FLOOR MOUNTED WALL CARRIER.	3/4"	-	2"	2"
US-1	UTILITY SINK: FIAT SF-1-F. FLOOR MOUNTED 20"x24"x14-3/8" WHITE POLYMER PLASTIC BOWL. BAKED ENAMEL STEEL LEGS. FAUCET: FIAT A1 4" CENTERS. OVERFLOW TUBE FIAT MODEL A-15.	1/2"	1/2"	3"	2"
WCO	WALL CLEAN OUT: JAY R SMITH 9776, STAINLESS STEEL CONSTRUCTION. SIZES VARY, SEE DRAWINGS FOR SIZES.	-	-	-	-

SCHEDULE NOTES:

1. ALL EQUIPMENT IN SCHEDULE IS PROVIDED BY CONTRACTOR AND CONTRACTOR INSTALLED.
2. CONTRACTOR TO PROVIDE ALL STOP VALVES, SHUT-OFF VALVES, FAUCET RISERS, BACKFLOW PREVENTERS, PIPING, FITTINGS AND/OR OTHER VALVES REQUIRED FOR A COMPLETE INSTALLATION.
3. ALL STOP VALVES TO BE QUARTER TURN, ALL FAUCET RISERS TO BE BRAIDED STAINLESS STEEL.
4. ALL P-TRAPS TO BE CHROME PLATED CAST BRASS. ALL BENDS TO BE CHROME PLATED TUBULAR BRASS WITH DIE CAST NUTS AND SHALLOW ESCUTCHEONS.





2 / P001 SUSPENDED DRAIN AND VENT PIPE DETAIL

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PLUMBING LEGEND

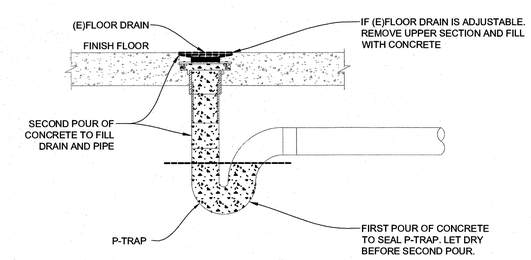
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—CW—	DOMESTIC COLD WATER		TEE UP
—HW—	DOMESTIC HOT WATER		TEE DOWN
—SS—	SANITARY SEWER		ELBOW UP
-----V-----	VENT		ELBOW DOWN
FCO	FLOOR CLEAN OUT		PIPE CAP
GCO	GRADE CLEAN OUT		CONNECT TO EXISTING
WCO	WALL CLEAN OUT		DISCONNECT FROM EXISTING
	BALL VALVE		NEW PIPING
			EXISTING PIPING
			PIPING TO BE REMOVED

PLUMBING ABBREVIATIONS

@	AT	HW	HOT WATER
AMPS	AMPERES	IN.	INCHES
ASSE	AMERICAN SOCIETY OF SAFETY ENGINEERS	L	LAVATORY
ADA	AMERICAN WITH DISABILITIES ACT	MFG	MANUFACTURER
CB	CATCH BASIN	MH	MANHOLE
CW	COLD WATER	MV	MIXING VALVE
DEG.	DEGREE	PH	PHASES
DF	DRINKING FOUNTAIN	SD	STORM DRAIN
(E)	EXISTING	SH	SHOWER
FCO	FLOOR CLEANOUT	SS	SANITARY SEWER
FD	FLOOR DRAIN	SV	SHOWER VALVE
FLA	FULL LOAD AMPS	T	TOILET
FS	FLOOR SINK	TD	TRENCH DRAIN
GCO	GRADE CLEANOUT	U	URINAL
GD	GRADE DRAIN	US	UTILITY SINK
GPF	GALLONS PER FLUSH	V	VOLTS
GPH	GALLONS PER HOUR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	WCO	WALL CLEANOUT

GENERAL NOTES:

1. PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOB SITE, TAKE NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. NO ALLOWANCES WILL BE MADE FOR EXTRA COSTS RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.
2. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND STANDARDS, INCLUDING IBC, UPC, IFC.
3. INSTALL ALL OVERHEAD PIPING AS CLOSE TO STRUCTURE AS POSSIBLE, OR AS DETAILED OTHERWISE.
4. LOCATE AND LABEL ALL VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILINGS SHALL BE ACCESSIBLE THRU CEILING. SEE DRAWINGS FOR VALVE LOCATIONS.
5. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF THE OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT CONDITIONS IN CONFLICT WITH THE PLANS.
6. COORDINATE INSTALLATION OF PIPING AND WITH STRUCTURAL COMPONENTS AND OTHER SYSTEM INSTALLATIONS. CONTRACTOR TO SAW CUT AND CORE DRILL, PATCH AND REPAIR SURFACES AS REQUIRED.
7. COORDINATE ALL FIXTURES, EQUIPMENT AND ROUGH-IN CONNECTION LOCATIONS AND SIZES WITH ARCHITECTURAL DRAWINGS, OWNER AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
8. ALL FLOOR DRAINS AND FLOOR SINKS TO BE INSTALLED WITH TRAP PRIMERS, (EXCEPT FOR FLOOR DRAINS IN SHOWERS).
9. WHEN PIPE SIZES TO INDIVIDUAL FIXTURES ARE NOT SHOWN ON THIS PLAN, REFER TO PLUMBING FIXTURE AND CONNECTION SCHEDULE ON SHEET P101 FOR PIPE AND CONNECTION SIZE.
10. SLOPE ALL SANITARY PIPING 4" AND LARGER AT 1/8" PER FOOT. SLOPE ALL SANITARY SEWER PIPING SMALLER THAN 4" AT 1/4"PER FOOT.



1 / P001 FLOOR DRAIN DEMO AND PLUG DETAIL

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PLUMBING SERVICES REPAIR

Registered Professional Engineer (Mechanical) CERTIFICATE NO. 34175 LAURA L G RAWSON ARIZONA U.S.A. 6/17/2025

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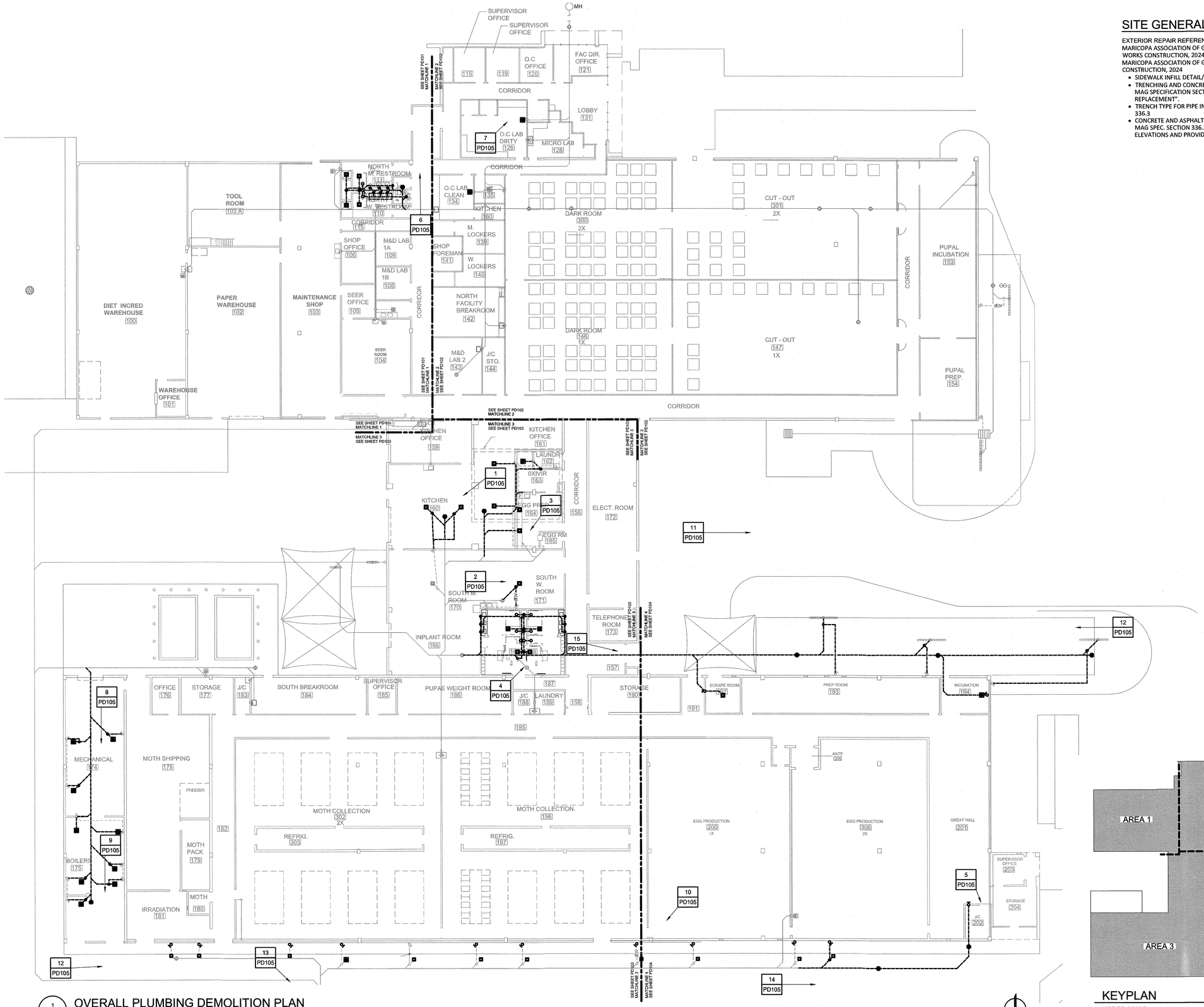
PLUMBING SCHEDULES, LEGENDS AND DETAILS

P001



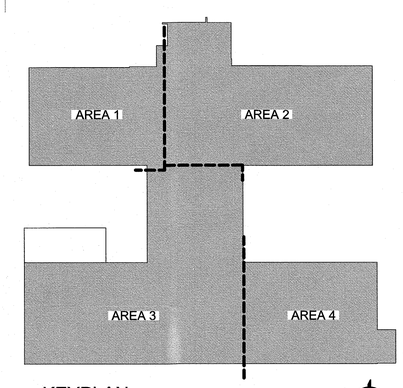
1 PD100 OVERALL PLUMBING DEMOLITION PLAN
1/16"=1'-0"

NORTH REF.

SITE GENERAL NOTES:

EXTERIOR REPAIR REFERENCES:
MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2024
MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) DETAILS FOR PUBLIC WORKS CONSTRUCTION, 2024

- SIDEWALK INFILL DETAIL/SECTION SHALL BE PER MAG DETAIL NO. 230.
- TRENCHING AND CONCRETE/ASPHALT REPAIR SHALL BE PERFORMED PER MAG SPECIFICATION SECTION 336, "PAVEMENT MATCHING AND SURFACING REPLACEMENT".
- TRENCH TYPE FOR PIPE INSTALLATION SHALL BE PER MAG SPEC. SECTION 336.3
- CONCRETE AND ASPHALT REPLACEMENT AND ADJUSTMENTS SHALL BE PER MAG SPEC. SECTION 336.2.4. ALL NEW PAVEMENT SHALL MATCH EXISTING ELEVATIONS AND PROVIDE POSITIVE DRAINAGE.



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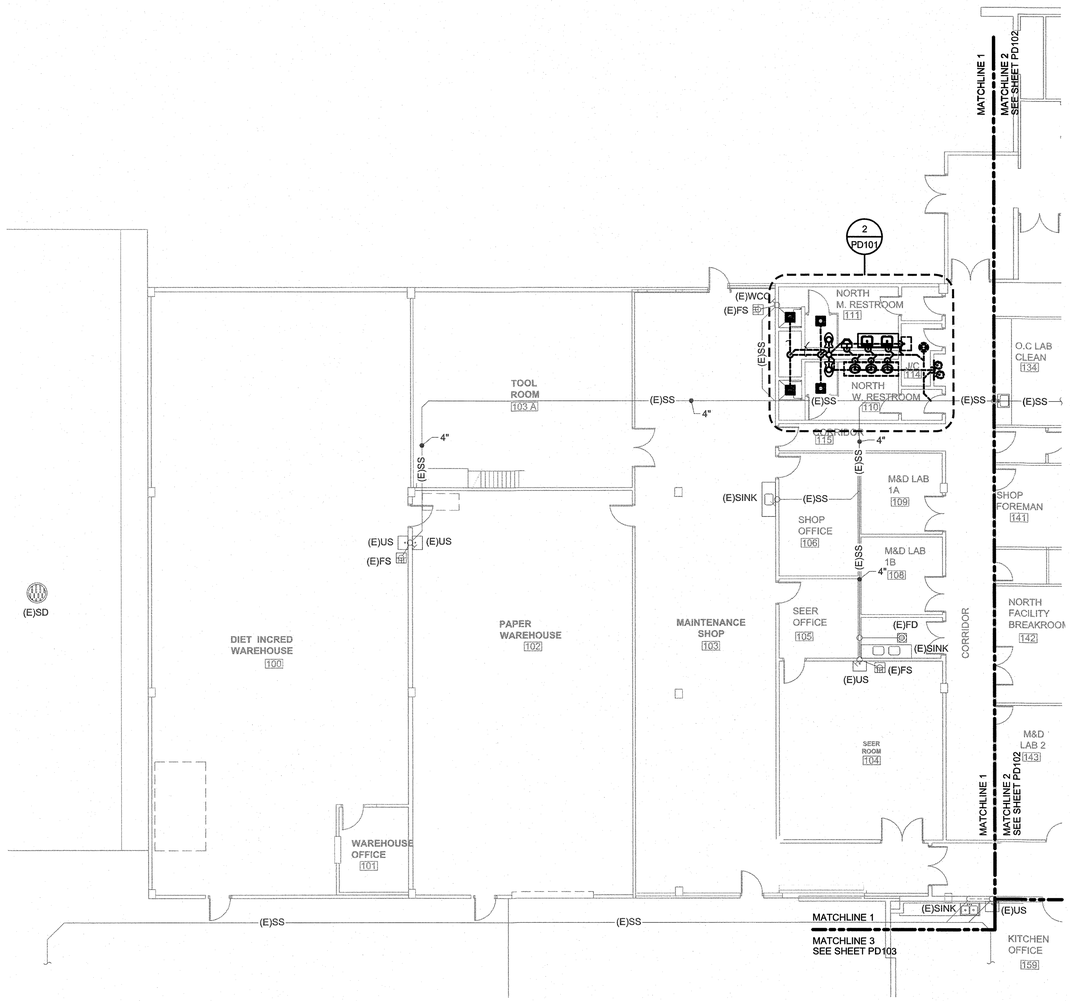
OVERALL PLUMBING DEMOLITION PLAN

PD100

DEMOLITION KEYNOTES: (#)

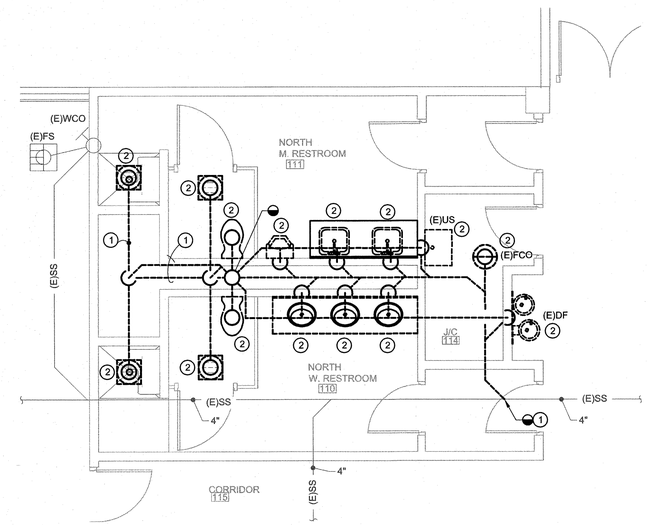
1. DEMO WASTE PIPING BACK TO THIS MAIN TIE-IN.
2. REMOVE FOR DEMOLITION EXISTING PLUMBING FIXTURE.



1 PD101 PLUMBING DEMOLITION PLAN - AREA 1

3/32"=1'-0"

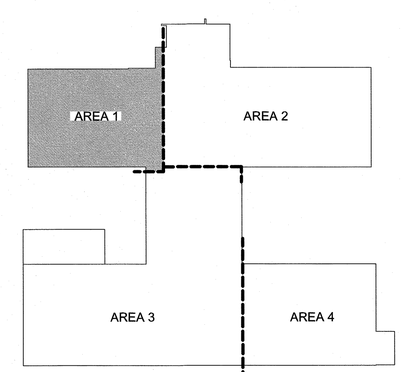
NORTH REF.



2 PD101 ENLARGED PLUMBING DEMOLITION PLAN - AREA 1

1/4"=1'-0"

NORTH REF.



KEYPLAN

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PLUMBING DEMOLITION PLAN - AREA 1

PD101

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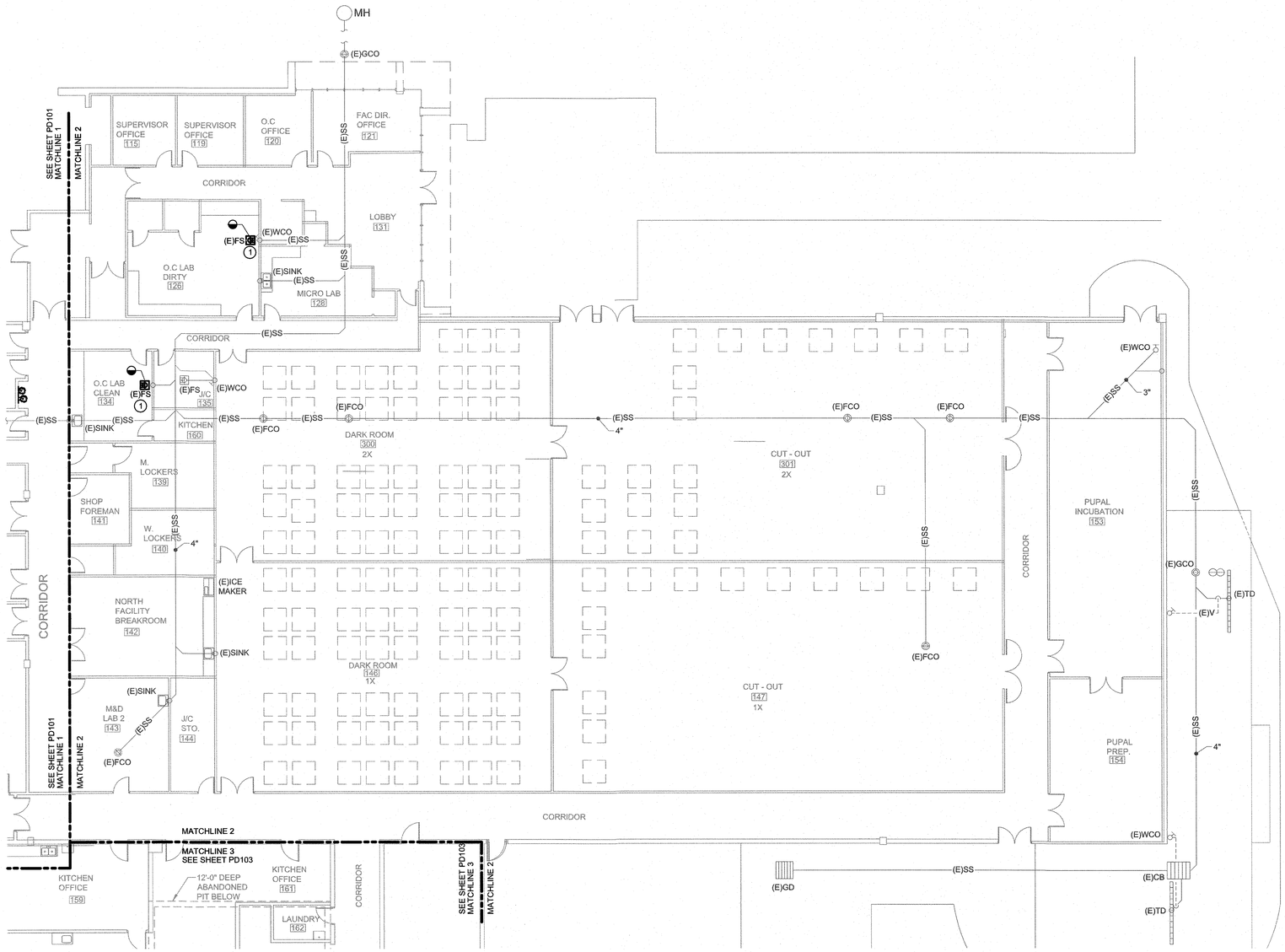
DEMOLITION KEYNOTES: (#)

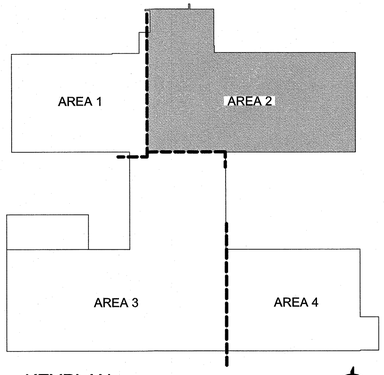
1. DEMO EXISTING FLOOR DRAIN/FLOOR SINK AND P-TRAP IN CONCRETE SLAB FLOOR. CAP DRAIN AND VENT LINE UNDER SLAB TO ALLOW SMOOTH REPLACEMENT FLOOR FINISH.



1 PD102 PLUMBING DEMOLITION PLAN - AREA 2

3/32"=1'-0"

NORTH REF.



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PLUMBING DEMOLITION PLAN - AREA 2

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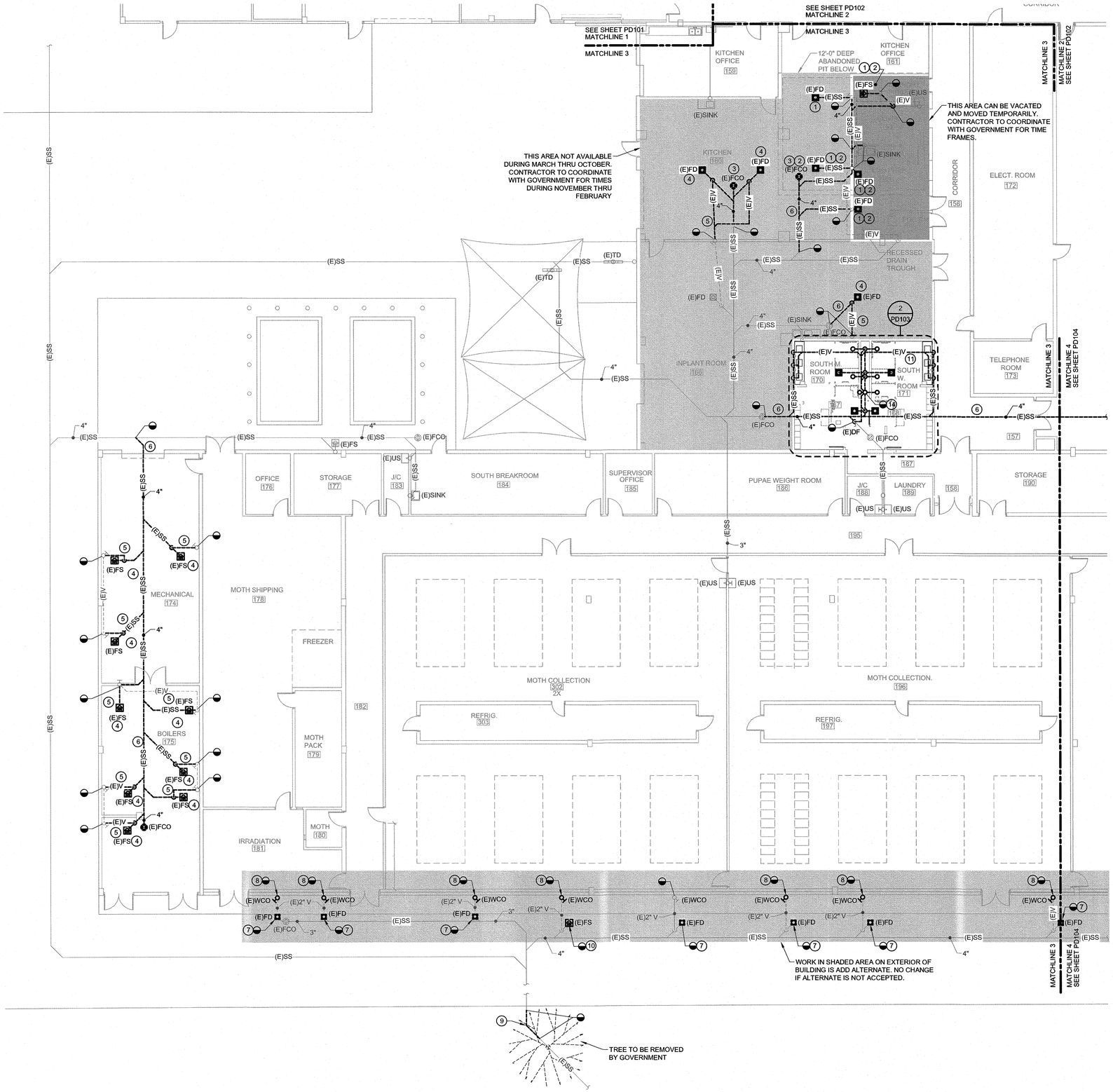
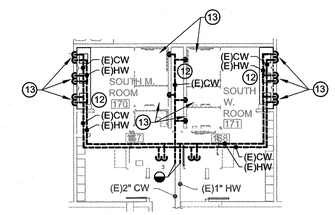


1 PD103 PLUMBING DEMOLITION PLAN - AREA 3

3/32"=1'-0"

DEMOLITION KEYNOTES:

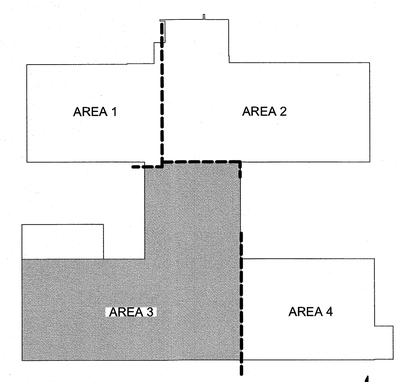
1. DEMO EXISTING FLOOR DRAIN/FLOOR SINK, P-TRAP, DRAIN AND VENT PIPE SUSPENDED FROM CONCRETE FLOOR SLAB ABOVE ABANDONED PIT BELOW FLOOR SLAB.
2. MAINTAIN EXISTING OPENING THRU SUSPENDED CONCRETE FLOOR SLAB FOR INSTALLATION OF REPLACEMENT DRAIN OR FLOOR CLEANOUT.
3. DEMO EXISTING FLOOR CLEANOUT AND DRAIN PIPE SUSPENDED FROM CONCRETE FLOOR SLAB ABOVE ABANDONED PIT BELOW FLOOR SLAB.
4. DEMO EXISTING FLOOR DRAIN/FLOOR SINK, P-TRAP, AND DRAIN PIPE IN CONCRETE SLAB FLOOR.
5. DEMO UNDER CONCRETE SLAB VENT LINE TO VENT RISER EXPOSED ON BUILDING INTERIOR WALL. VENT RISER WITH CLEANOUT TO REMAIN.
6. DEMO MAIN DRAIN PIPE UNDER CONCRETE SLAB AS SHOWN.
7. ADD ALTERNATE 1 - REMOVE EXISTING FLOOR DRAIN STRAINER. PLUG WITH CONCRETE PER DETAIL 1/P001.
8. ADD ALTERNATE 1 - DEMO VENT PIPE ON EXTERIOR WALL. PLUG WITH CONCRETE.
9. REMOVE AND REPLACE THIS SECTION OF SEWER PIPE.
10. REMOVE FOR DEMOLITION EXISTING FLOOR SINK.
11. REMOVE FOR DEMOLITION EXISTING SANITARY SEWER AND VENT LINES SERVING RESTROOM AS SHOWN. VERIFY EXISTING CONDITIONS.
12. ACTUAL EXISTING CONDITIONS OF EXISTING WATER PIPING ARE NOT VERIFIED. REMOVE ALL CONNECTIONS TO EXISTING FIXTURES AS SHOWN. RECONNECT TO NEW FIXTURES AS REQUIRED. SEE NEW PLANS FOR LAYOUT.
13. REMOVE FOR DEMOLITION EXISTING PLUMBING FIXTURE
14. DEMO EXISTING VENT TO 12" BELOW ROOF AT VRT.



2 PD103 DEMOLITION SOUTH RESTROOM PLUMBING PLAN

3/32"=1'-0"

NORTH REF.



KEYPLAN

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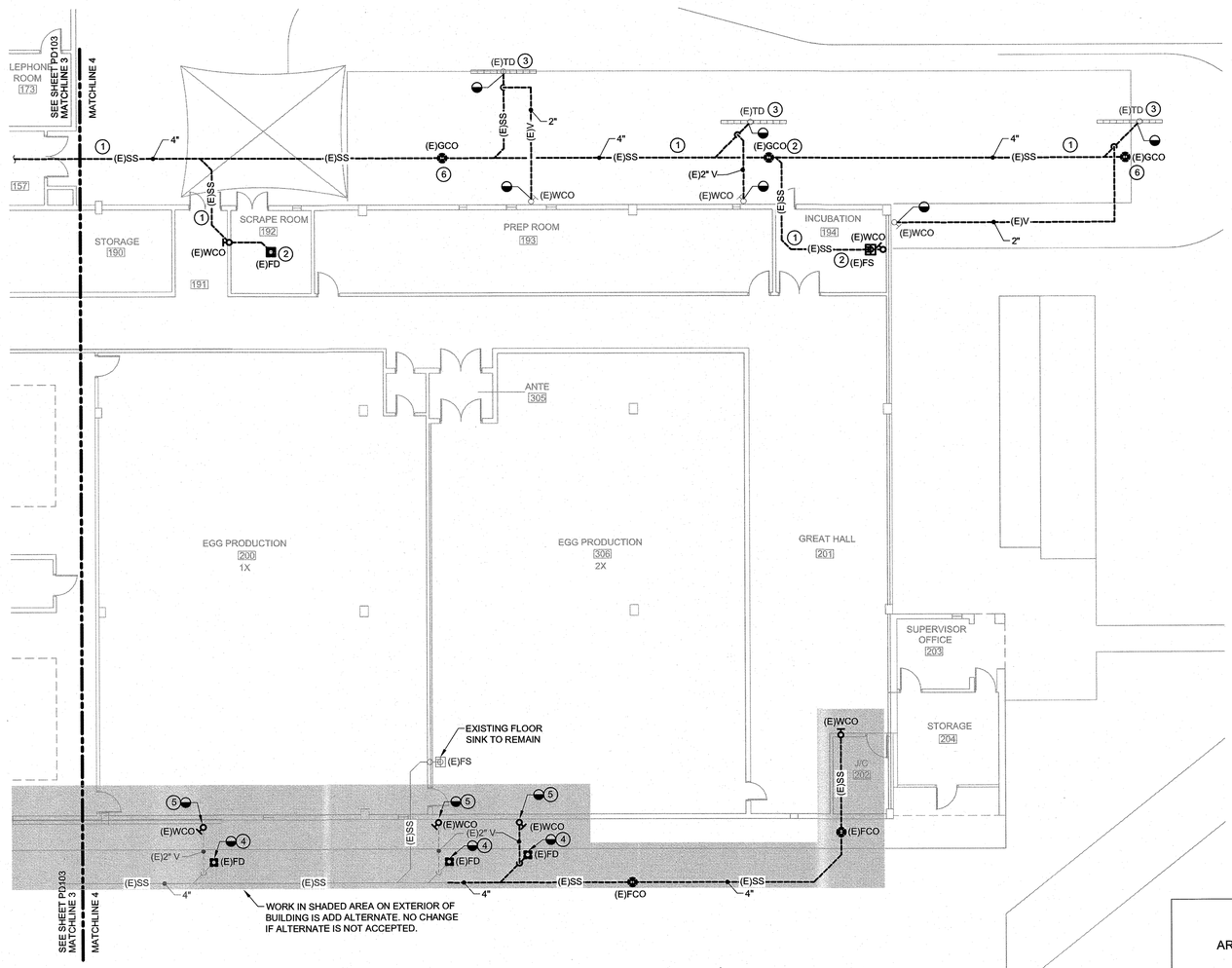
PLUMBING DEMOLITION PLAN - AREA 3

PD103

DEMOLITION KEYNOTES:

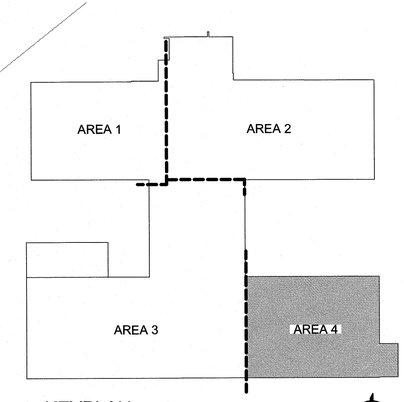
1. DEMO MAIN DRAIN PIPE UNDER CONCRETE SLAB BACK TO MAIN PIPE.
2. DEMO EXISTING FLOOR DRAIN/FLOOR SINK, P-TRAP, AND DRAIN PIPE IN CONCRETE SLAB FLOOR.
3. TRENCH DRAIN TO REMAIN/OR REUSED. TO BE CONNECTED TO NEW SEWER PIPING SYSTEM.
4. ADD ALTERNATE 1 - REMOVE EXISTING FLOOR DRAIN STRAINER. PLUG WITH CONCRETE PER DETAIL 1/P001.
5. ADD ALTERNATE 1 - DEMO VENT PIPE ON EXTERIOR WALL. PLUG WITH CONCRETE.
6. DEMO EXISTING FLOOR CLEANOUT.



1 PD104 PLUMBING DEMOLITION PLAN - AREA 4

3/32"=1'-0"

NORTH REF.



KEYPLAN

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PLUMBING DEMOLITION PLAN - AREA 4

PD104

1 PHOTO REFERENCE 1
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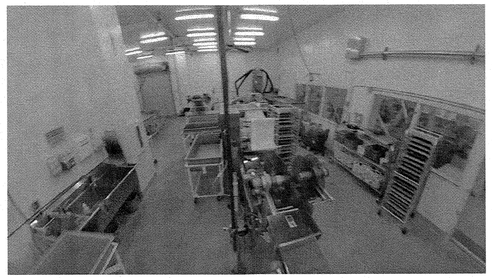

2 PHOTO REFERENCE 2
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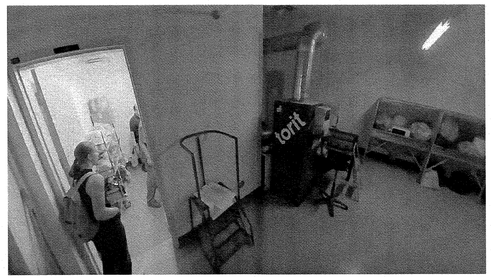
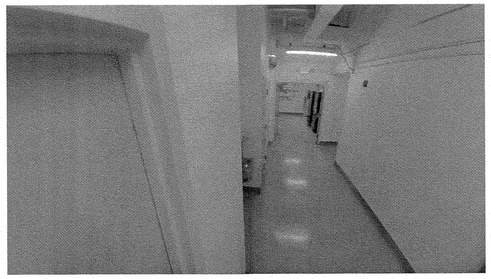
3 PHOTO REFERENCE 3
PD105 NOT TO SCALE

4 PHOTO REFERENCE 4
PD105 NOT TO SCALE



5 PHOTO REFERENCE 5
PD105 NOT TO SCALE



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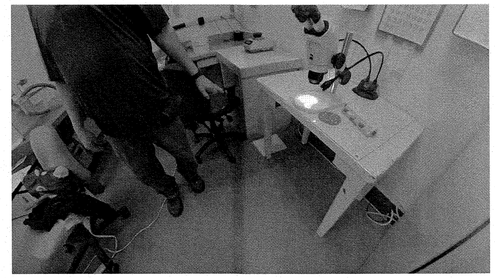

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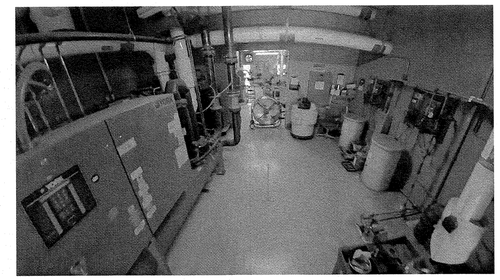

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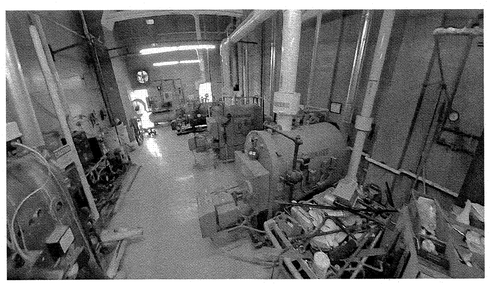

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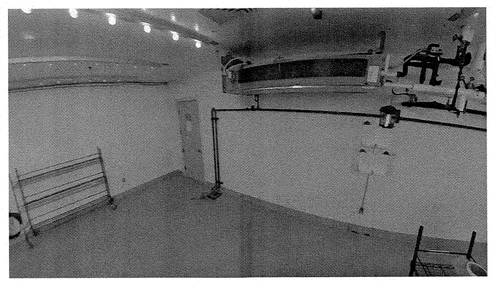

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11 PHOTO REFERENCE 11
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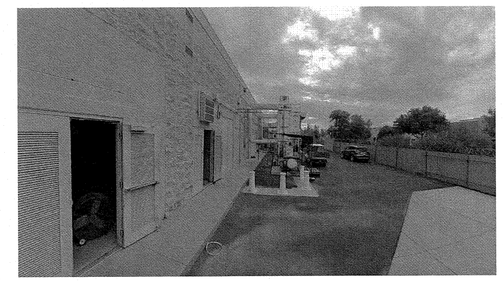

12 PHOTO REFERENCE 12
PD105 NOT TO SCALE

13 PHOTO REFERENCE 13
PD105 NOT TO SCALE

14 PHOTO REFERENCE 14
PD105 NOT TO SCALE

15 PHOTO REFERENCE 15
PD105 NOT TO SCALE

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PLUMBING SERVICES REPAIR

Registered Professional Engineer (Civil)
CERTIFICATE NO. 34175
LAURA L. S. RAMAN
Date Signed
ARIZONA, U.S.A.
6/17/2025

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PHOTO REFERENCES

PD105

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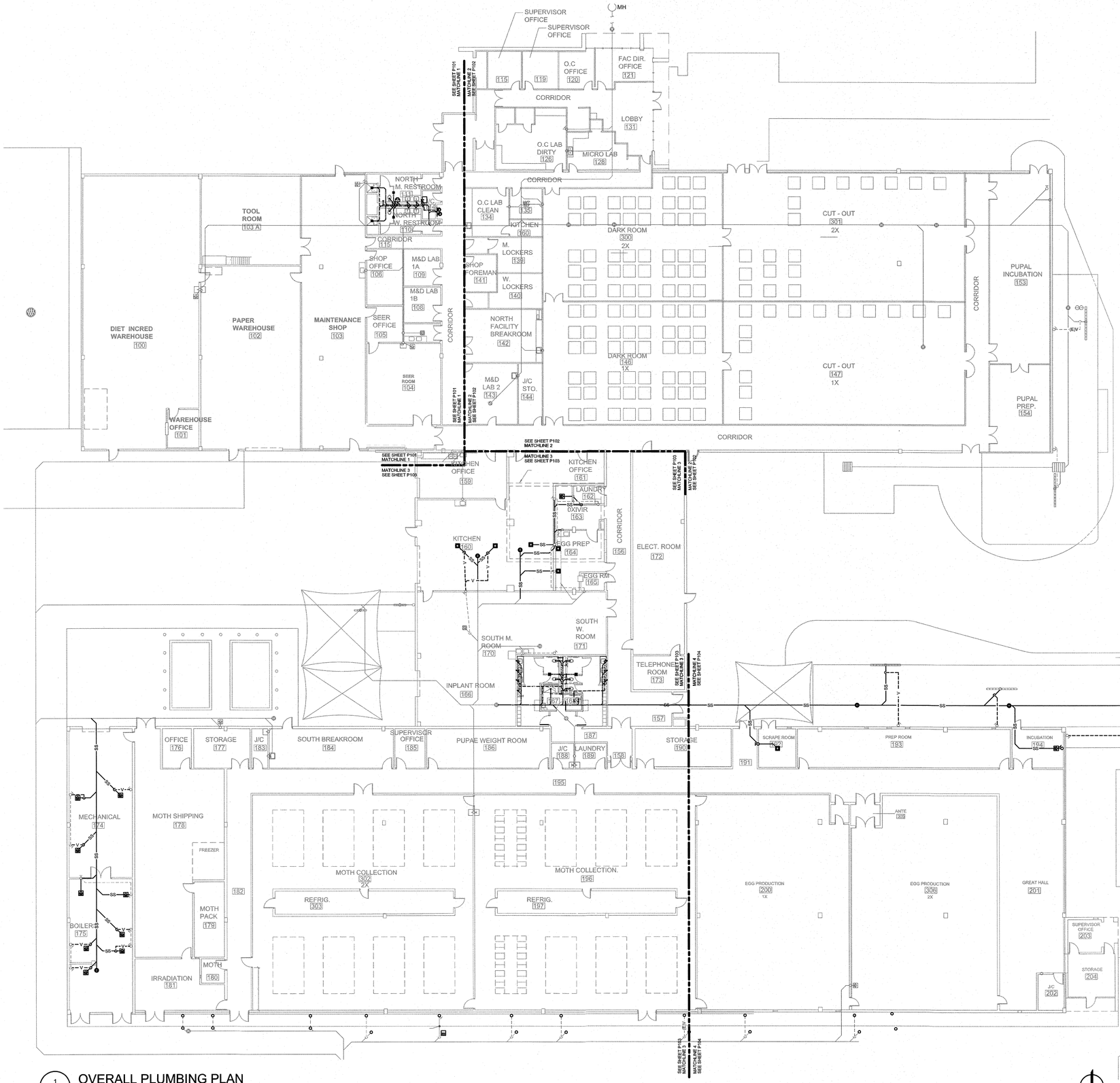


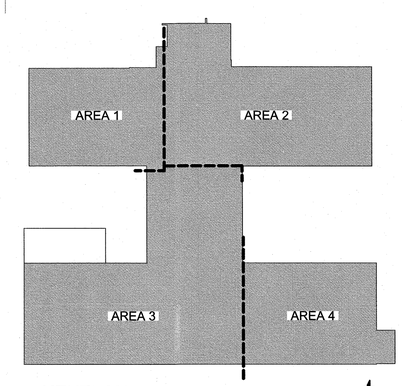
1 P100 OVERALL PLUMBING PLAN

1/16"=1'-0"

SITE GENERAL NOTES:

EXTERIOR REPAIR REFERENCES:
MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2024
MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) DETAILS FOR PUBLIC WORKS CONSTRUCTION, 2024

- SIDEWALK INFILL DETAIL/SECTION SHALL BE PER MAG DETAIL NO. 230.
- TRENCHING AND CONCRETE/ASPHALT REPAIR SHALL BE PERFORMED PER MAG SPECIFICATION SECTION 336, "PAVEMENT MATCHING AND SURFACING REPLACEMENT".
- TRENCH TYPE FOR PIPE INSTALLATION SHALL BE PER MAG SPEC. SECTION 336.3
- CONCRETE AND ASPHALT REPLACEMENT AND ADJUSTMENTS SHALL BE PER MAG SPEC. SECTION 336.2.4. ALL NEW PAVEMENT SHALL MATCH EXISTING ELEVATIONS AND PROVIDE POSITIVE DRAINAGE.



KEYPLAN

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PLUMBING SERVICES REPAIR

Mechanical Professional Engineer Registration CERTIFICATE NO. 34175 LAURA L. R. RANKIN ARIZONA U.S.A. 6/17/2025

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OVERALL PLUMBING PLAN

P100

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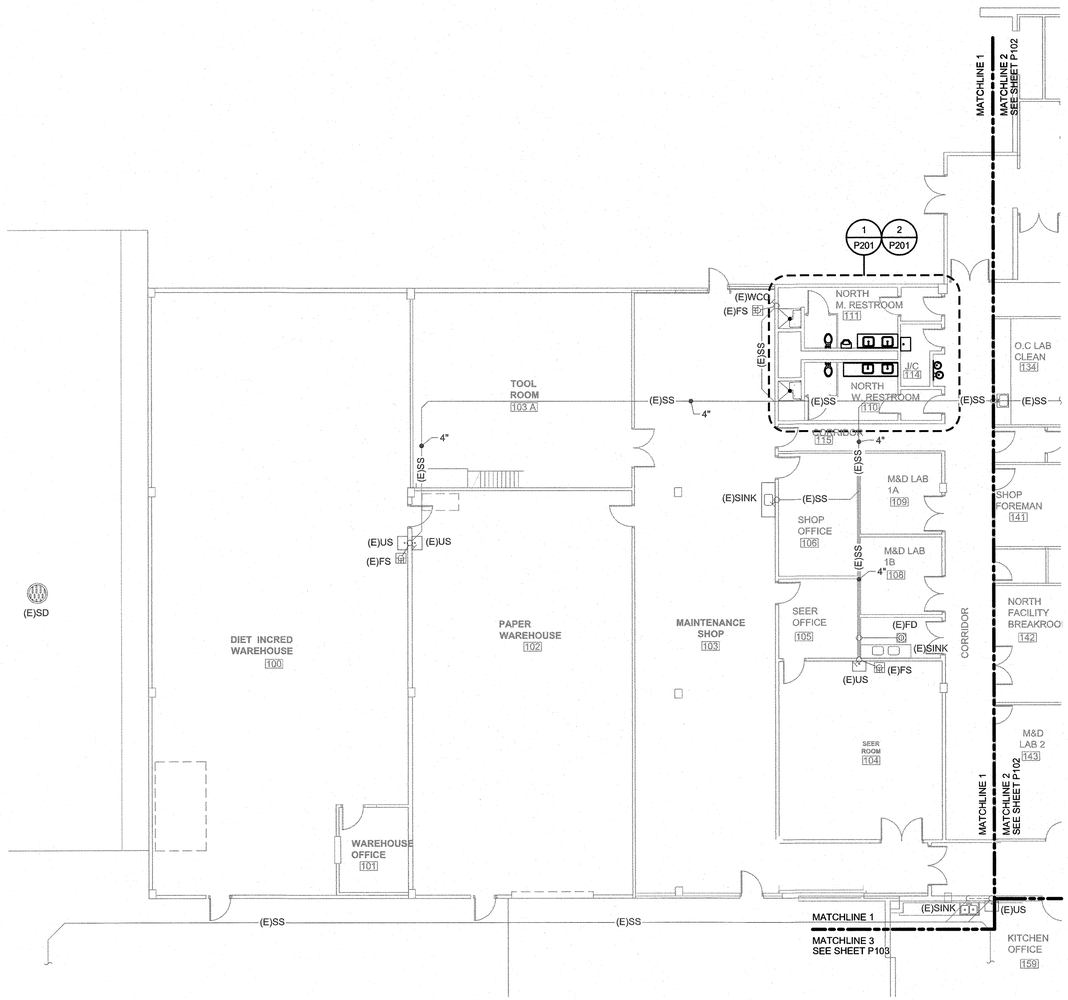
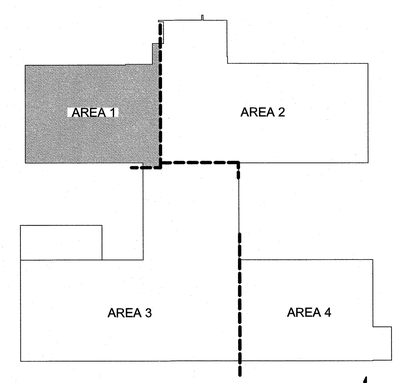


1 P101 PLUMBING PLAN - AREA 1
3/32"=1'-0"

NORTH REF.



KEYPLAN
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NORTH REF.

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PLUMBING SERVICES REPAIR

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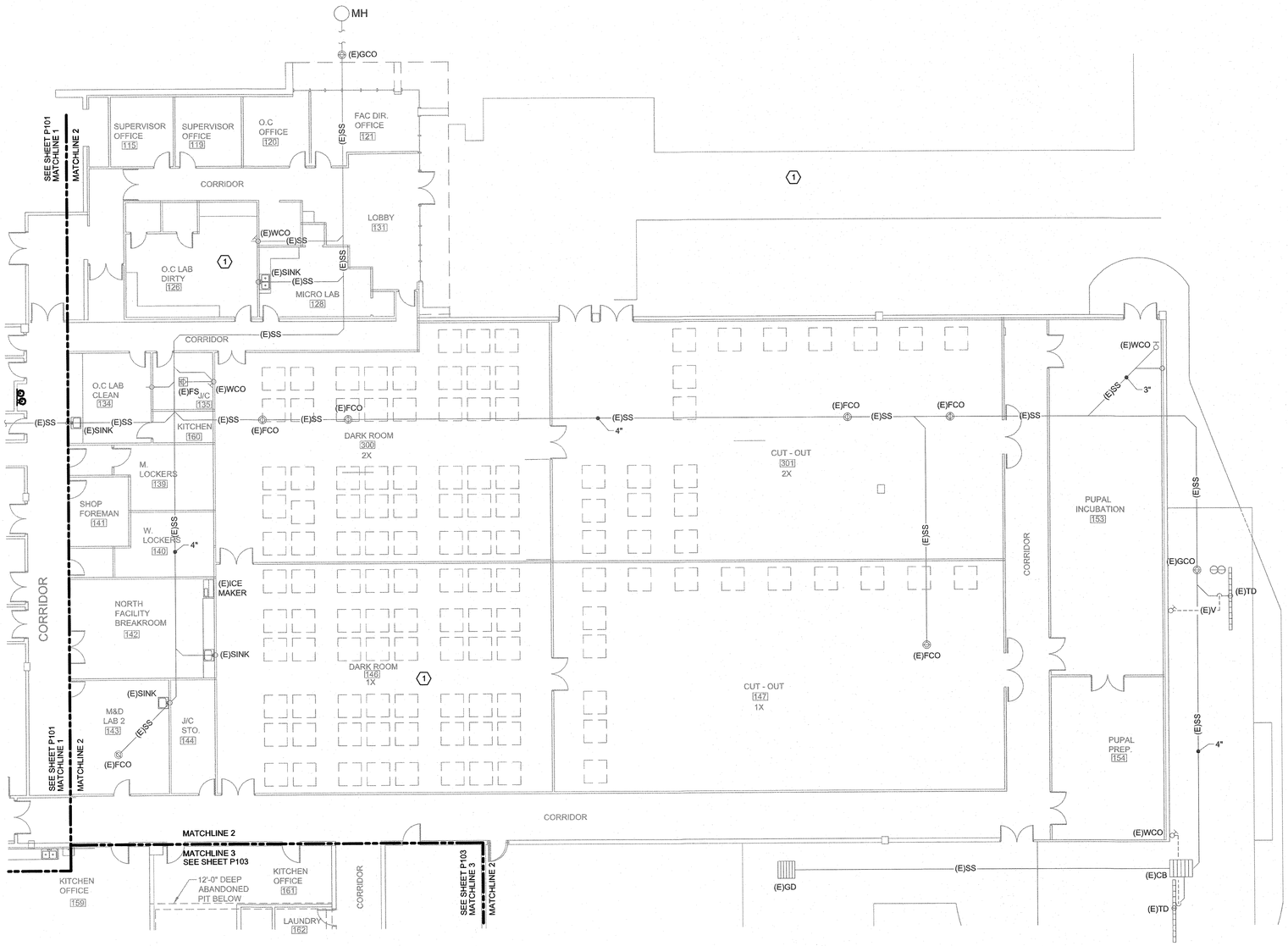
PLUMBING PLANS - AREA 1

P101

KEYNOTES: #

1. NO NEW WORK ON THIS SHEET. SHEET SHOWN FOR CLARIFICATION.

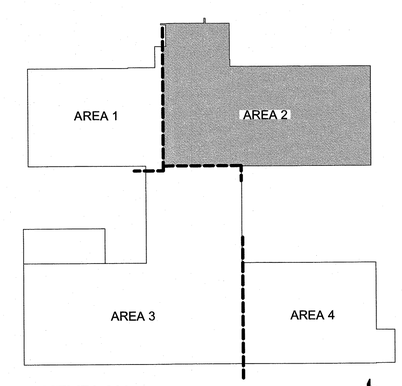


NO WORK IN THIS AREA SHEET IS FOR REFERENCE ONLY

1 P102 PLUMBING PLAN - AREA 2

3/32"=1'-0"

NORTH REF.



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PLUMBING PLAN - AREA 2

P102

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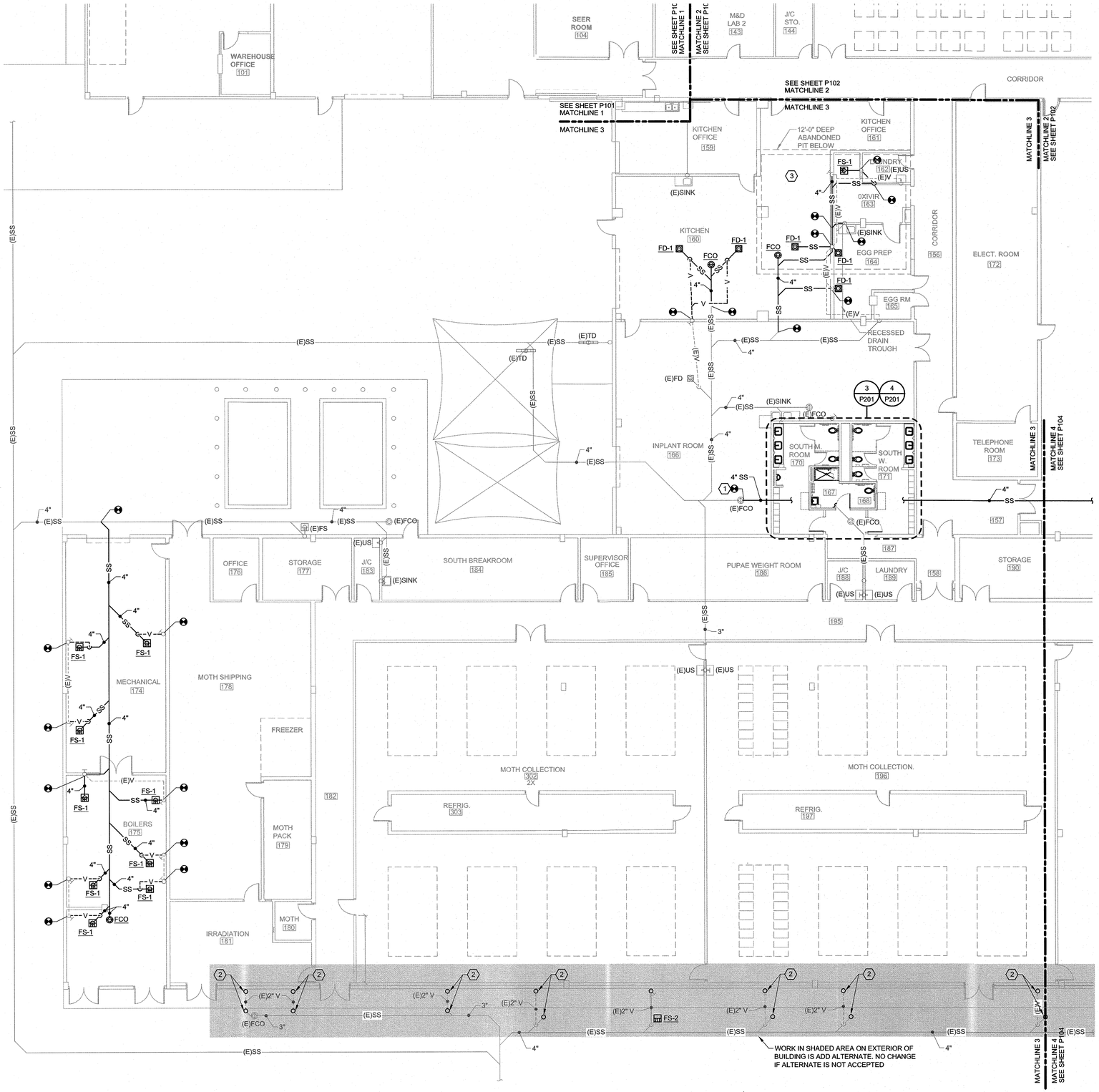


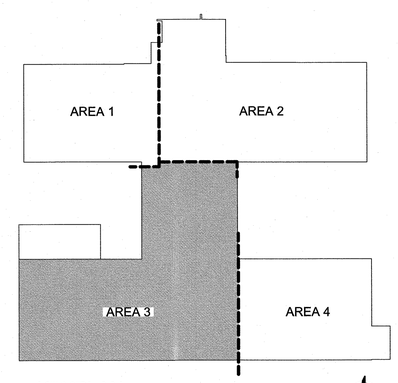
1 P103 PLUMBING PLAN - AREA 3

3/32"=1'-0"

NORTH REF.

KEYNOTES:

1. CONNECT 4" SS LINE TO EXISTING 4" SS LINE. VERIFY INVERT AND ACTUAL ROUTING.
2. EXISTING EXTERIOR FLOOR DRAIN AND VENT PIPE PLUGGED WITH CONCRETE IN ADD ALTERNATE #1. BASE BID IS TO LEAVE EXTERIOR FLOOR DRAINS WORKING AS IS.
3. DASHED LINES INDICATE AREA OF ABANDONED PIT BELOW. COORDINATE WITH EXISTING CONDITIONS AND REQUIREMENTS TO WORK IN PIT AS NEEDED. AVOID DISTURBANCE OF SLAB IN PIT AREA UNLESS NECESSARY.



KEYPLAN

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PLUMBING PLAN - AREA 3

P103

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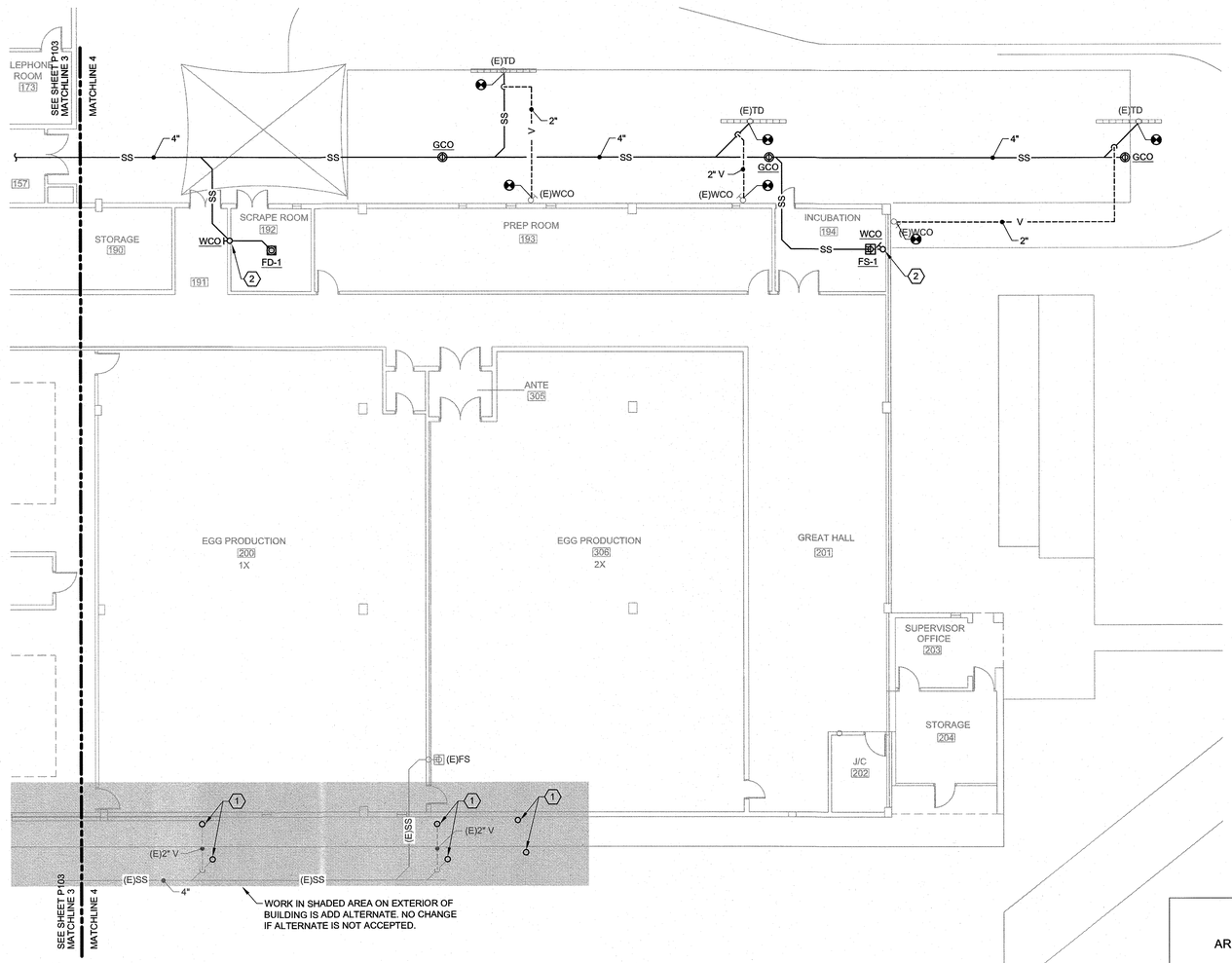
KEYNOTES:

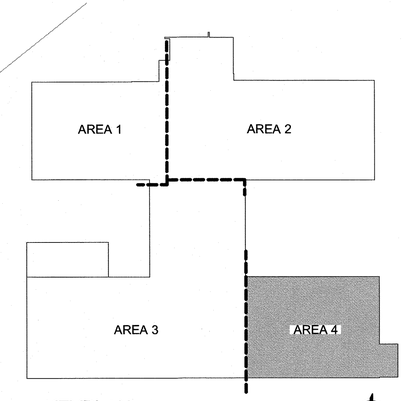
1. EXISTING EXTERIOR FLOOR DRAIN AND VENT PIPE PLUGGED WITH CONCRETE IN ADD ALTERNATE #1. BASE BID IS TO LEAVE EXTERIOR FLOOR DRAINS WORKING AS IS.
2. 2" VENT UP AND CONNECT TO EXISTING VENT SYSTEM.



1 / P104 PLUMBING PLAN - AREA 4

3/32"=1'-0"

NORTH REF.



KEYPLAN

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NORTH REF.

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Registered Professional Engineer (Electrical) CERTIFICATE NO. 34175 LAURA L. WILSON Expires 6/30/26 ARIZONA, U.S.A.
6/17/2025

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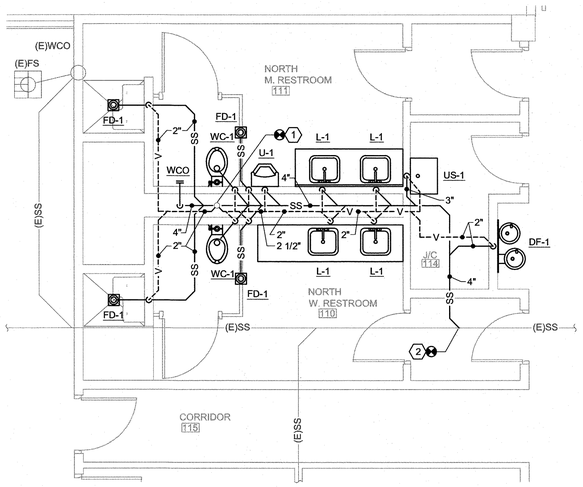
PLUMBING PLAN - AREA 4

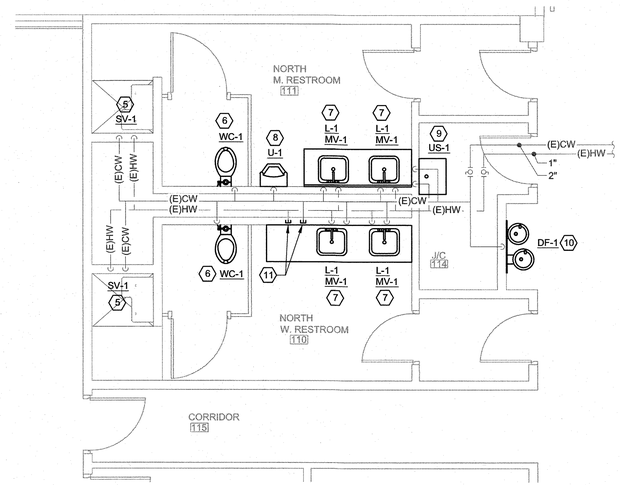
P104

KEYNOTES:

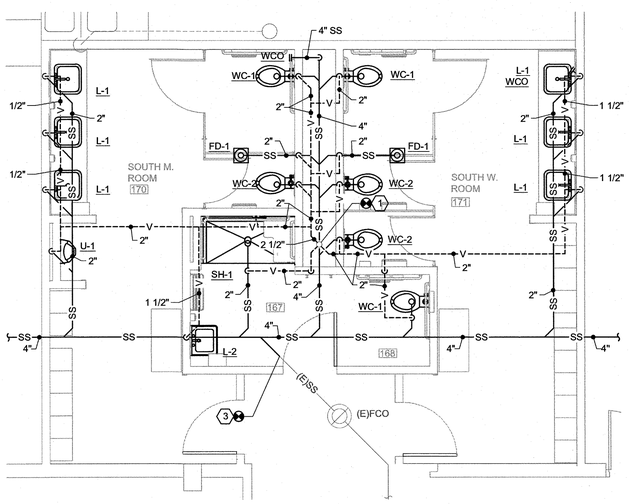
1. CONNECT VENT LINES TO EXISTING VTR.
2. CONNECT 4" SS LINE TO EXISTING MAIN.
3. CONNECT EXISTING 4" SS TO NEW SS MAIN. VERIFY INVERTS PRIOR TO WORK.
4. CONNECT 1" HW & 2" CW TO EXISTING 1" HW & 2" CW MAINS.
5. CONNECT SV-1 TO EXISTING WATER PIPING FROM REMOVED SHOWER.
6. CONNECT WC-1 TO EXISTING WATER PIPING FROM REMOVED WATER CLOSET.
7. CONNECT L-1 TO EXISTING WATER PIPING FROM REMOVED SINK. PROVIDE NEW QUARTER TURN STOP VALVES.
8. CONNECT U-1 TO EXISTING WATER PIPING FROM REMOVED URINAL.
9. CONNECT US-1 TO EXISTING WATER PIPING FROM REMOVED UTILITY SINK. PROVIDE NEW QUARTER TURN STOP VALVES.
10. CONNECT DF-1 TO EXISTING WATER PIPING FROM REMOVED DRINKING FOUNTAIN. PROVIDE NEW QUARTER TURN STOP VALVE.
11. CAP CW & HW TO REMOVED SINK AT MAIN.



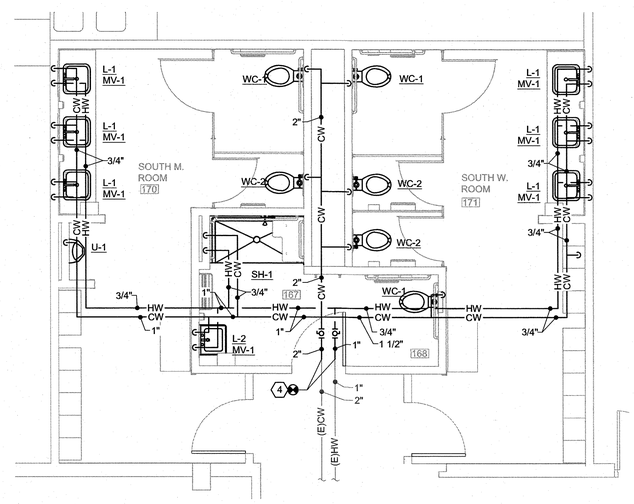
1 P201 ENLARGED NORTH RESTROOM WASTE & VENT PLAN
1/4"=1'-0"
NORTH REF.



2 P201 ENLARGED NORTH RESTROOM PLUMBING PLAN
1/4"=1'-0"
NORTH REF.



3 P201 ENLARGED SOUTH RESTROOM WASTE & VENT PLAN
1/4"=1'-0"
NORTH REF.



4 P201 ENLARGED SOUTH RESTROOM PLUMBING PLAN
1/4"=1'-0"
NORTH REF.

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PLUMBING SERVICES REPAIR

Registered Professional Engineer (Mechanical) CERTIFICATE NO. 34175 LAURA LEE RANKIN Date Signed 6/17/2025 ARIZONA, U.S.A.

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ENLARGED PLUMBING PLANS

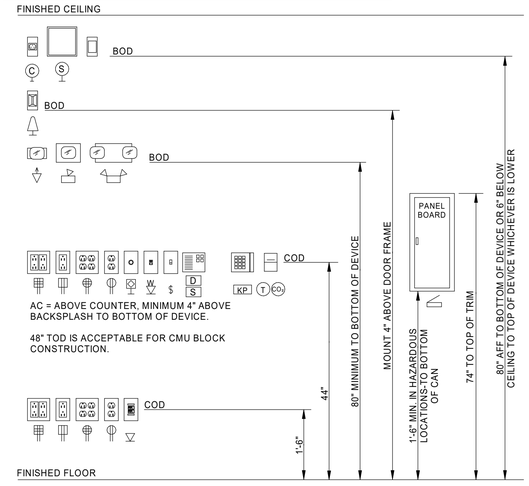
P201

ELECTRICAL ABBREVIATIONS

ABBREVIATIONS AND MISCELLANEOUS

SYMBOL	DESCRIPTION
AC	ABOVE COUNTER, 4" BACK SPLASH
ATS	AUTOMATIC TRANSFER SWITCH
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
BLG	BELOW GRADE
BOD	BOTTOM OF DEVICE
B.O.F.	BOTTOM OF FIXTURE
BKR	BREAKER
C	CONDUIT
CAS	CARD ACCESS SYSTEM
CCM	CASE CONTROLLER MODULE
CCTV	CLOSED CIRCUIT TV
CF	CASE FAN
CKT	CIRCUIT
CLG	CEILING
COD	CENTER OF DEVICE
CU	COPPER
(D)	DEMOLISH
(D/R)	DEMOLISH RELOCATED EQUIPMENT
DVR	DIGITAL VIDEO RECORDER
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
ED	ELECTRIC DEFROST
EF	EXHAUST FAN
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
(N)	NEW
N	NEUTRAL
NL	NIGHT LIGHT
OCP	OVER CURRENT PROTECTION
PTZ	PAN-TILT-ZOOM
QTY	QUANTITY
(R)	RELOCATED
(RE)	RELOCATED EXISTING
SF	SURFACE
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TEMPERATURE CONTROL CONTRACTOR
TK	TOE KICK RECEPTACLE
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
W/	WITH
WM	WIRE MOLD
WR	WEATHER RESISTANT (WHILE IN USE)
XFMR	TRANSFORMER
a,b,c etc	SWITCH DESIGNATION
BN1L-2,4,6	CIRCUIT DESIGNATION, PANEL BN1L, CIRCUITS 2,4,6
1/E501	INDICATES DETAIL 1 ON SHEET E501

INTERIOR BOX MOUNTING HEIGHTS



ELECTRICAL DEVICES AND SYMBOLS

SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS

SYMBOL	DESCRIPTION
$	SWITCH - SPST 2 SINGLE POLE, DOUBLE THROW 3 THREEWAY 4 FOURWAY K KEY OPERATED P PILOT LIGHT WP WEATHERPROOF OS OCCUPANCY SENSOR D DIMMER ED ELECTRIC DEFROST(RE: REFRIGERATION POWER PLAN) MC SPOT-MOMENTARY CONTACT LV LOW VOLTAGE T TIMER SWITCH TS TEST SWITCH VS VACANCY SENSOR
CLG	RECEPTACLE - DUPLEX, MOUNTING IN CEILING
CLG	GFI RECEPTACLE - DUPLEX, MOUNTING IN CEILING
	RECEPTACLE - DUPLEX, CONTROLLED
	GFI RECEPTACLE - DUPLEX, CONTROLLED
	RECEPTACLE - DUPLEX GFI RECEPTACLE - DUPLEX (GROUND FAULT INTERRUPT) USB DEVICE RECEPT W/2 USB PORTS DC DROP CORD WP WEATHERPROOF COVER & WEATHER RESISTANT RECEPTACLE TR TAMPER RESISTANT S SURGE PROTECTED IG ISOLATED GROUND FILLED CENTER INDICATES UPS RECEPTACLE
	RECEPTACLE - DOUBLE DUPLEX GFI RECEPTACLE - DOUBLE DUPLEX - SAME INDICATORS AS SHOWN FOR DUPLEX RECEPTACLE
	RECEPTACLE - 208V R RANGE - NEMA 14-50R D DRYER - NEMA 14-30R W WELDER - NEMA 14-50R * NEMA CONFIGURATION AS NOTED
	208V RECEPTACLE IN RECESSED FLOORBOX
	DUPLEX RECEPTACLE/GFI IN RECESSED FLOORBOX
	DOUBLE DUPLEX RECEPTACLE/GFI IN RECESSED FLOORBOX
J	J-BOX - BOX INDICATES FLOOR MOUNTING -4"X4"X2-1/8" DEEP UNLESS OTHERWISE NOTED
	LAY-IN OR RECESSED FIXTURE, SIZE ON PLANS
	WALL MOUNTED FIXTURE, SIZE ON PLANS
	SURFACE MOUNTED FIXTURE, SIZE ON PLANS
	PENDANT OR SURFACE MOUNTED FIXTURE, SIZE ON PLANS
	PENDANT MOUNTED FIXTURE, SIZE ON PLANS
	SHADED FIXTURE INDICATES FIXTURE IS UNSWITCHED AND ALSO INDICATES EMERGENCY POWER.
	RECESSED DOWNLIGHT FIXTURE
	SURFACE MOUNTED FIXTURE
	WALL MOUNTED FIXTURE
	CEILING MOUNTED, WALL MOUNTED EXIT LIGHT (W/ DIRECTIONAL ARROWS)
	HOME RUN TO PANEL. MINIMUM 2#12 AND 1#12GND OR AS NOTED ON DRAWINGS
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED UNDER FLOOR
	EXISTING PANELBOARD, SURFACE MOUNTED
	PANELBOARD, SURFACE MOUNTED
OS	OCCUPANCY SENSOR, CEILING MOUNTED. SENSOR SWITCH NO CMR-PDT-9-BAA OR EQUAL
OS-H	OCCUPANCY SENSOR, WALL MOUNTED. SENSOR SWITCH NO WSX-PDT-WH-BAA OR EQUAL

LIGHTING FIXTURE SCHEDULE

GENERAL NOTES:
A) CONTRACTOR TO COORDINATE FINAL FIXTURE MOUNTING LOCATION AND HEIGHTS WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.
B) ALL LIGHTING SHALL BE BAA QUALIFIED.
NOTES:
1) PROVIDE WITH INTEGRAL EMERGENCY BATTERY. CONNECT EMERGENCY BATTERY TO UNSWITCHED LEG OF RESPECTIVE AREA LIGHTING CIRCUIT

FIXTURE						MOUNTING HEIGHT TO B.O.F.	FIXTURE		LIGHT SOURCE				
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING TYPE LOCATION	MOUNTING TYPE TYPE		VOLTAGE	VA	LAMP TYPE	CRI	KELVIN	LUMENS	NOTES
C2	4" LED CAN LIGHT - SHOWER	GOTHAM	EV04SH-35/15-DFR-SOL-MVOLT-EZ1	CEILING	RECESSED	-	120 V	13.70	LED	80	3500K	1500 lm	
L1	4' LED SURFACE WRAP	LITHONIA	LBL4-4000LM-80CRI-3500K-MVOLT	CEILING	SURFACE	-	120 V	32.40	LED	80	3500K	4000 lm	
L1E	4' LED SURFACE WRAP - EMERGENCY	LITHONIA	LBL4-4000LM-80CRI-3500K-MVOLT-E7W	CEILING	SURFACE	-	120 V	32.40	LED	80	3500K	4000 lm	1
V2	2' LED VANITY FIXTURE	LITHONIA	FMVCSLS-24IN-MVOLT-30K35K40K-90CRI-BN-M6	WALL	SURFACE	6'-8"	120 V	27.00	LED	90	3500K	1550 lm	
V4	4' LED VANITY FIXTURE	LITHONIA	FMVCSLS-48IN-MVOLT-35K-90CRI-BN-M4	WALL	SURFACE	6'-8"	120 V	36.00	LED	90	3500K	2960 lm	

EXISTING PANEL: LC

LOCATION: SEE SHEET A000 **AMPS:** 125 **MINIMUM AIC RATING:** EXISTING
TYPE OF MAIN: MLO **VOLTAGE:** 208Y/120 **MOUNTING TYPE:** SURFACE
MANUFACTURER: SIEMENS **PHASE:** 3 **NOTES:**
MODEL TYPE: S1 **WIRES:** 4

LOAD NAME	CKT NOTES	POLE	BRK AMP	CKT NO	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		CKT NO	BRK AMP	POLE	CKT NOTES	LOAD NAME
(E) REC (6)		1	20	1	180	1080					2	20	1		(E) REC (6) EGG PREP ALARM
(E) TMB		1	20	3			800	180			4	20	1		(E) REC (7)
(E) REC W/150 (2) AUTOCLAVE		1	20	5					360	180	6	20	1		(E) REC (6)
(E) WASHER RM 162		1	20	7	180	180					8	20	1		(E) REC (7) & E.F.-2
(E) FC-7 (2)1/6HP		1	20	9			600	1200			10	20	1		(E) FC-RM 195 & 201
(E) FC-7 (2)1/6HP		1	20	11					600	600	12	20	1		(E) EF-1
(E) FC-14 & FC-15		1	20	13	1200	1000					14	20	1		(E) AIR DOOR RM 306
(E) FC-15 & FC-1		1	20	15			1200	180			16	20	1		(E) TIME CLOCK PHOTO CELL
(E) FC-13 & FC-61		1	20	17					1200	180	18	20	1		(E) REC @ 164
(E) HIGH PRESSURE WASHER		1	30	19	1080	180					20	20	1		(E) REC @ 164
(E) AIR, BUBBLE MOTOR		1	30	21			1080	180			22	20	1		(E) REC @ 164
(E) NE GATE		2	15	23					900	180	24	20	1		(E) REC @ 164
***		*	**	25	900	180					26	20	1		**RESTROOM RECEPTACLE (NOTE A)**
(E) NW GATE		2	15	27			900	1200			28	35	2		EXISTING LOAD
***		*	**	29					900	2160	30	**	*		***
					6160		7520		7260		**TOTAL CONNECTED PHASE VA**				
					51.3		62.7		60.5		**TOTAL CONNECTED PHASE AMPS**				

LOAD CLASSIFICATION	CONNECTED LOAD(kVA)	FACTOR	DEMAND LOAD	PANEL TOTALS	
LIGHTING	0.0	PER NEC 210.20(A)	0.0	**CONNECTED LOAD(kVA):**	20.9
CONVENIENCE OUTLETS	12.2	PER NEC 220.44	11.1	**CONNECTED AMPS:**	58.2
MOTORS	4.2	PER NEC 430.24	4.7		
KITCHEN EQUIPMENT	0.0	PER NEC 220.56	0.0	**DEMAND LOAD (kVA):**	21.4
ELECTRIC HEAT	0.0	100%	0.0	**DEMAND AMPS**	59.5
WATER HEAT	0.0	100%	0.0		
MISCELLANEOUS	4.5	PER NEC 210.20(A)	5.7		

CIRCUIT NOTES:
A. CONNECT TO EXISTING CIRCUIT BREAKER.

Cushing Terrell.
cushingterrell.com
800.757.9522

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USDA APHIS PPQ PHOENIX REARING FACILITY - APHIS-MN-126395

PLUMBING SERVICES REPAIR

Registered Professional Engineer
CERTIFICATE NO. 58131
GARY GLASSING
Date Signed 06/19/2025
ARIZONA U.S.A.

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100% CONSTRUCTION DOCUMENTS

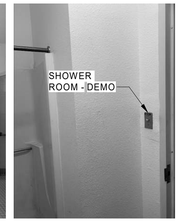
06/16/2025
PROJ# | PROJECT#
DESIGNED BY | GROSS
DRAWN BY | GROSS
REVIEWED BY | VICTORINO
REVISIONS

ELECTRICAL LEGENDS

E001

NORTH WOMENS RESTROOM

NORTH MENS RESTROOM



SOUTH MENS RESTROOM

SOUTH WOMENS RESTROOM

7 / E002 EXISTING LIGHT SWITCHES

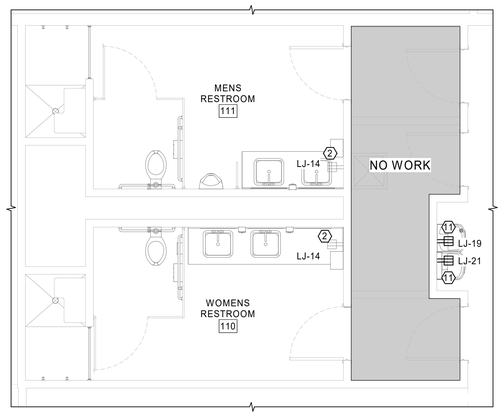
1" = 1'-0"

GENERAL NOTES

A. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.
B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN WALLS, FUR OUTS, AND ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED, UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
C. WHERE NEW DEVICES ARE SHOWN FOR INSTALLATION ON EXISTING WALLS, ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE CUTTING, PATCHING, AND REPAIR OF EXISTING WALL WITH OTHER TRADES AS REQUIRED TO PROVIDE FLUSH MOUNTED INSTALLATION.
D. ALL DASHED ITEMS ON DEMOLITION PLANS ARE TO BE REMOVED, AND SOLID ITEMS ARE TO REMAIN UNLESS NOTED OTHERWISE OR TO BE RELOCATED AS NOTED. NOTE - ITEMS SHOWN IN THE DEMOLITION PLANS ARE BASED ON FIELD OBSERVATIONS.
E. ADDITIONAL ELECTRICAL ITEMS MAY BE ENCOUNTERED THAT ARE NOT SHOWN - ALL GENERAL ELECTRICAL ITEMS ARE TO BE REMOVED THAT ARE NOT SHOWN, BUT ARE IN AREAS OF COMPLETE REMODEL.
F. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF REQUIRED PATCHING AND PAINTING WITH THE GENERAL CONTRACTOR.
G. CONNECTIONS FOR ITEMS SHOWN FOR DEMOLITION SHALL BE REMOVED BACK TO SOURCE, OR TO NEAREST UPSTREAM DEVICE.
H. WHERE EXISTING CONNECTIONS ARE AFFECTED BY DEMOLITION, PROVIDE NEW CONDUCTORS, RACEWAYS, ETC., AS REQUIRED TO MAINTAIN OPERATION OF EXISTING ITEMS WHICH ARE TO REMAIN.
I. EXISTING CONDUITS IN THE FLOOR WHICH ARE NOT USED AND WHICH ARE ABANDONED SHALL BE TRIMMED TO FLOOR SURFACE, GROUND FLUSH AND FILLED WITH GROUT, AND FINISHED TO MATCH ADJACENT FLOOR SURFACE.

KEYNOTES

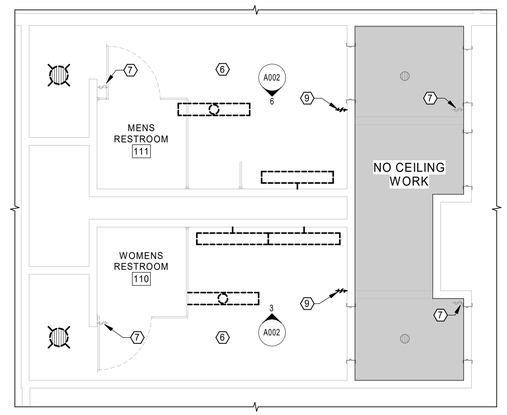
1. CONNECT LIGHTING IN THIS AREA TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION. CIRCUIT SHOWN BASED ON AS-BUILT DRAWINGS. FIELD COORDINATE CIRCUIT NUMBER AND UPDATE PANEL SCHEDULE AS REQUIRED. CONNECT TO CONTROLS AS DIRECTED BY EQUIPMENT MANUFACTER.
2. MAINTAIN AND PROTECT EXISTING RECEPTACLE AND ASSOCIATED CONNECTION AT THIS LOCATION. CIRCUIT SHOWN BASED ON AS BUILT DRAWINGS. CONTRACTOR TO VERIFY CIRCUIT AND UPDATE PANEL DIRECTORY AS REQUIRED.
3. REFER TO SHEET A000 FOR PANEL LOCATION.
4. CONNECT OCCUPANCY SENSOR AS REQUIRED TO OVERRIDE MANUAL CONTROLS. COORDINATE WITH EQUIPMENT MANUFACTURER WIRING DIAGRAMS.
5. CONNECT EXISTING SWITCH TO NEW LIGHTS VIA OCCUPANCY SENSOR.
6. REMOVE EXISTING LIGHTING AS SHOWN. CIRCUIT TO REMAIN IN VICINITY FOR REUSE.
7. ALL EXISTING SWITCHES ARE TO REMAIN, UNLESS OTHERWISE NOTES. PROTECT IN PLACE DURING CONSTRUCTION. SEE IMAGES ON THIS SHEET FOR ADDITIONAL INFORMATION.
8. REMOVE EXISTING SWITCH AND ASSOCIATED CONNECTION AS REQUIRED FOR WALL DEMOLITION
9. REMOVE EXISTING SWITCH. CONNECTION TO REMAIN FOR REUSE, REFER TO 2/E002.
10. INSTALL WALL MOUNTED OCCUPANCY SENSOR AT EXISTING LIGHT SWITCH LOCATION AND CONNECT USING EXISTING CONNECTIONS AS REQUIRED TO PROVIDE AUTOMATIC CONTROL.
11. EXISTING DRINKING FOUNTAIN OUTLET TO BE REPLACED WITH GFI DEVICE AND RECONNECTED TO EXISTING CIRCUIT. COORDINATE LOCATION OF EXISTING DEVICE WITH MANUFACTURER INSTALLATION INSTRUCTIONS AND RELOCATE EXISTING DEVICE AS NECESSARY.



1 / E002 ENLARGED NORTH RESTROOM - POWER PLAN

1/4" = 1'-0"

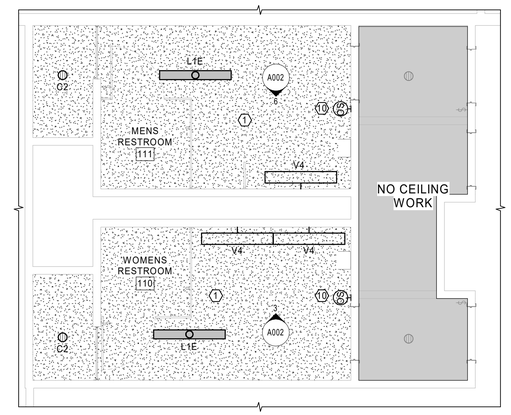
NORTH REF



5 / E002 NORTH RESTROOM - LIGHTING PLAN DEMO

1/4" = 1'-0"

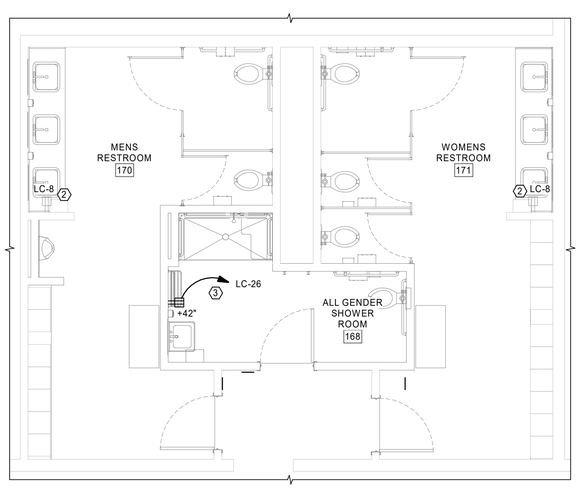
NORTH REF



2 / E002 NORTH RESTROOM - LIGHTING PLAN

1/4" = 1'-0"

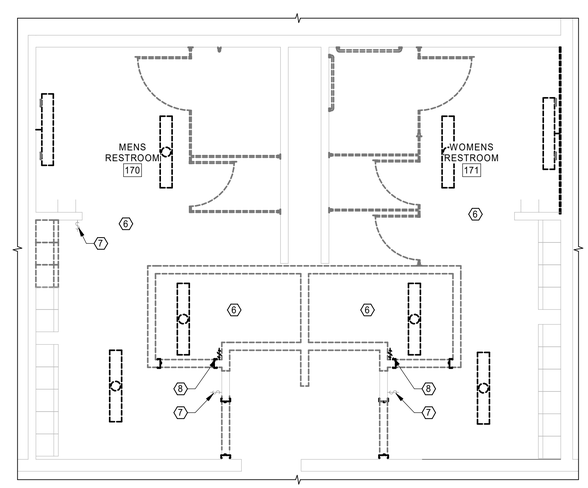
NORTH REF



3 / E002 ENLARGED SOUTH RESTROOM - POWER PLAN

1/4" = 1'-0"

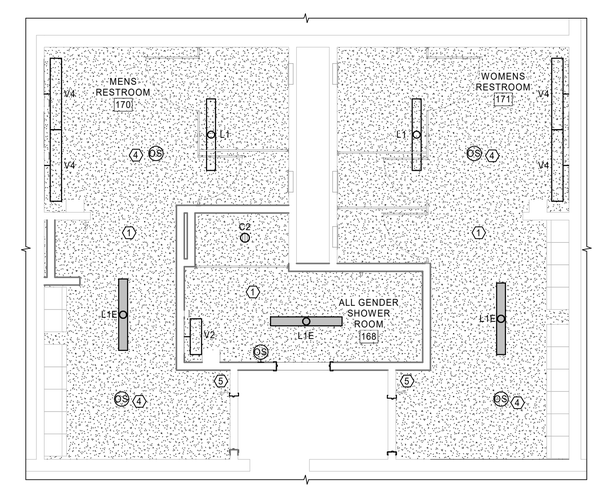
NORTH REF



6 / E002 SOUTH RESTROOM - LIGHTING PLAN DEMO

1/4" = 1'-0"

NORTH REF



4 / E002 SOUTH RESTROOM - LIGHTING PLAN

1/4" = 1'-0"

NORTH REF

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REVISIONS

RESTROOM
ELECTRICAL PLANS

E002