Monona Terrace Roof Garden Restrooms Alteration

1 John Nolen Drive Madison, WI 53703 Project #2014.41.00

Issued For Bidding

City of Madison Project No. 10914 City of Madison Construction Contract No. 7565

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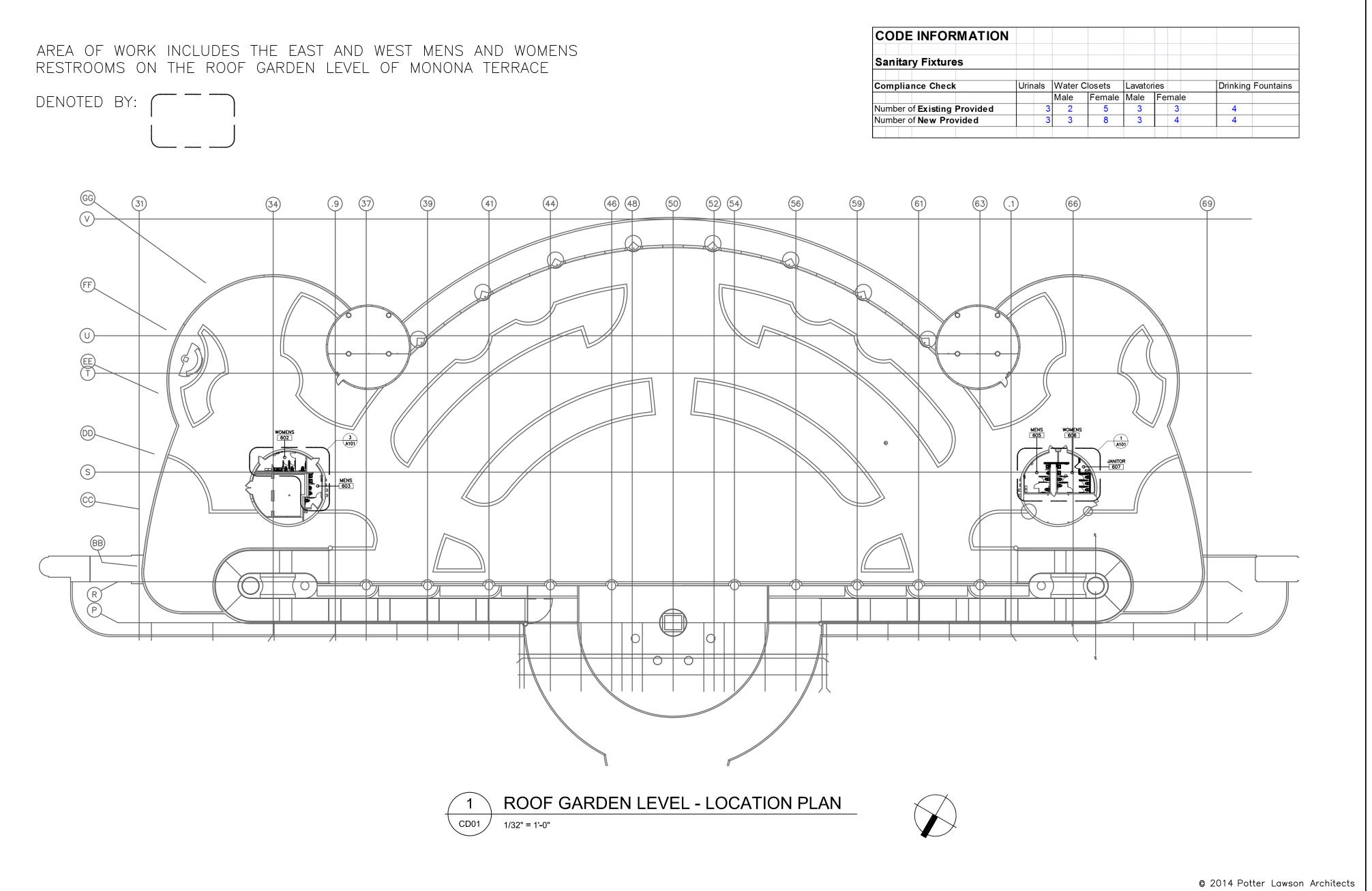
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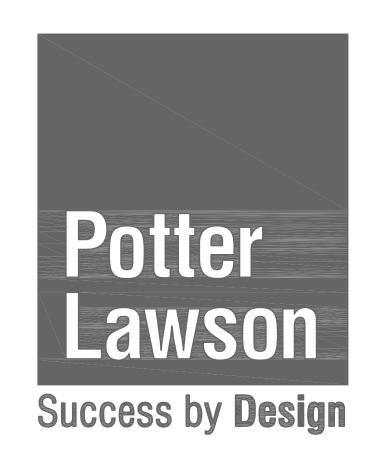
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Monona Terrace Roof Garden Restrooms Alteration

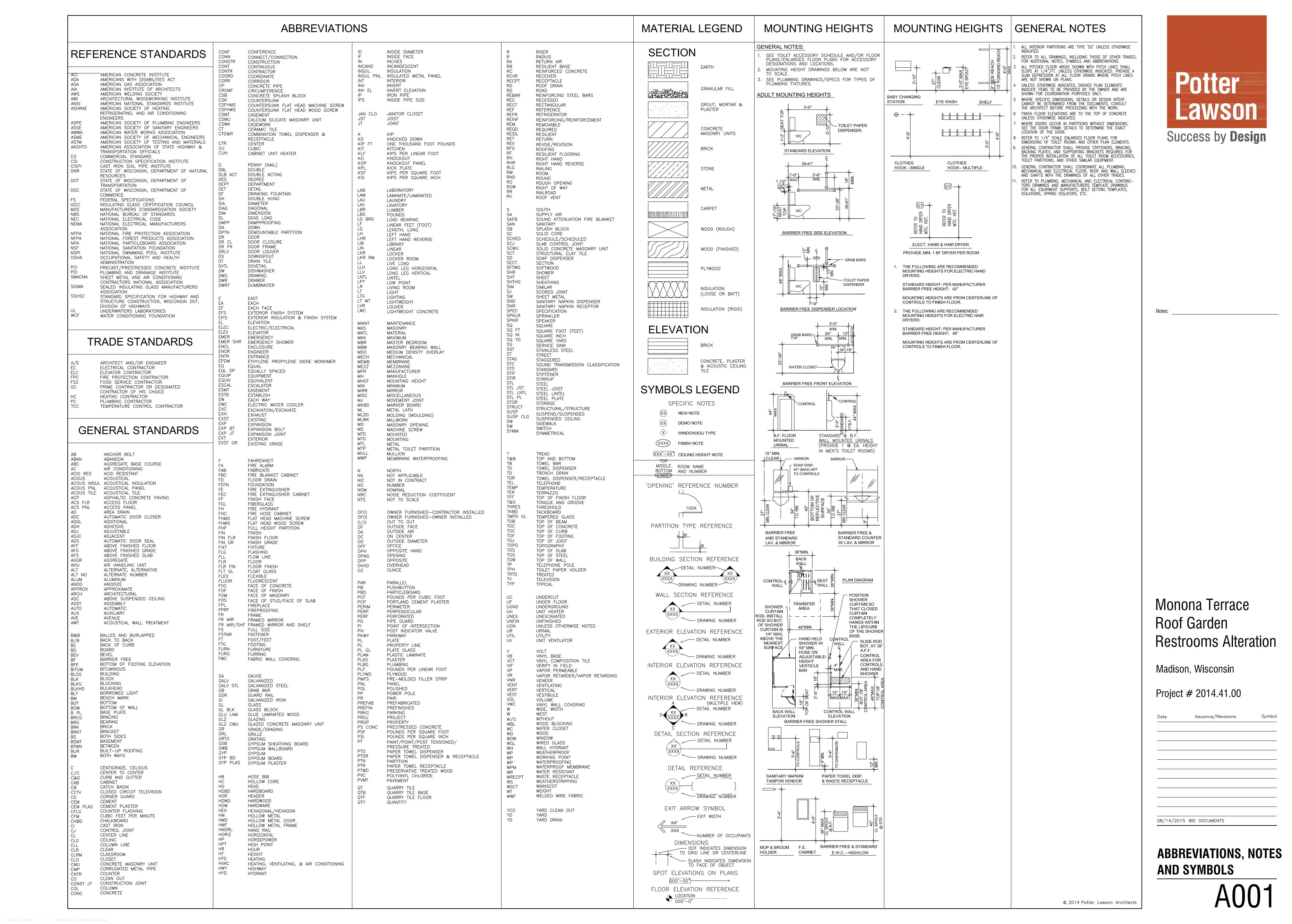
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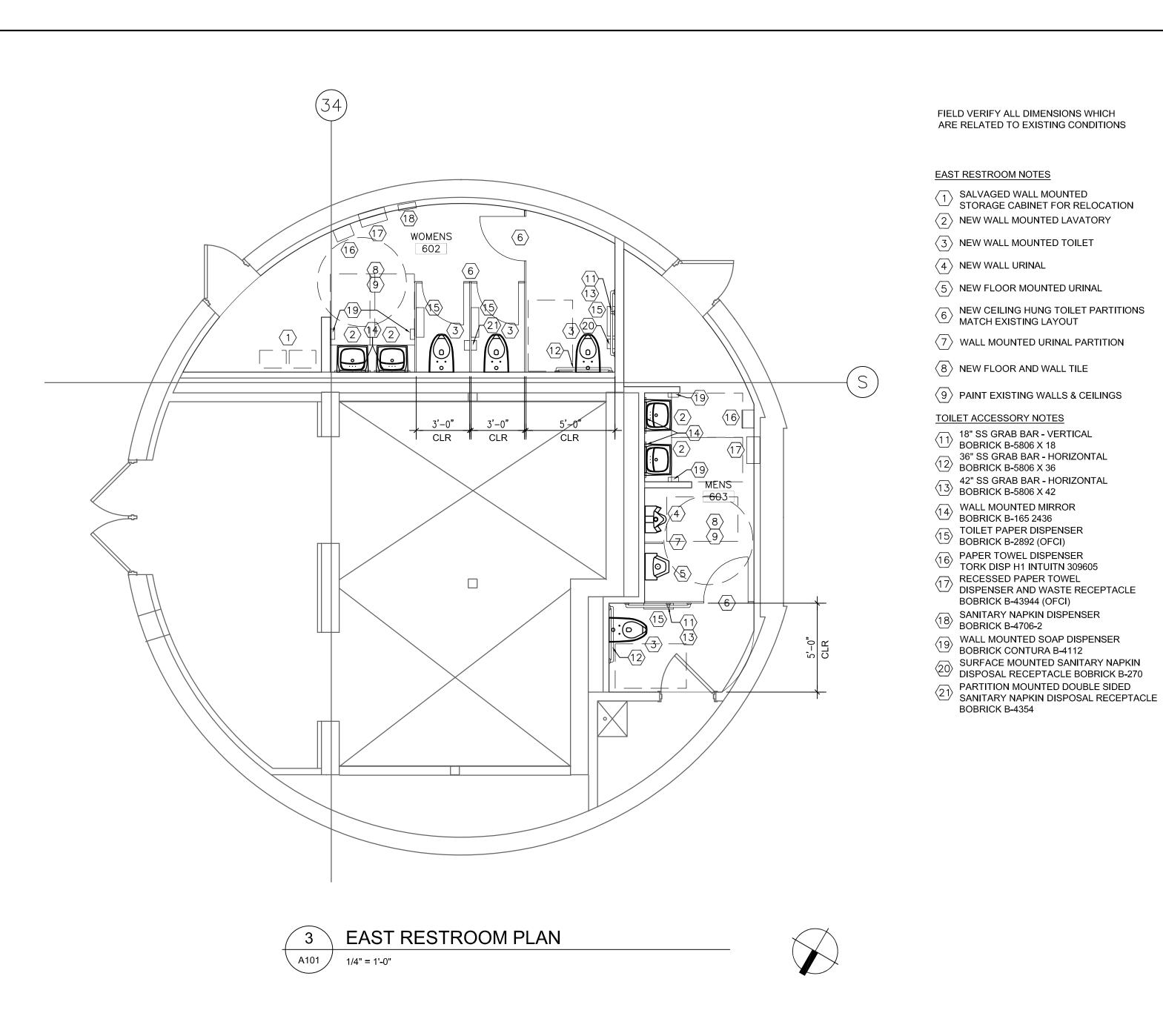
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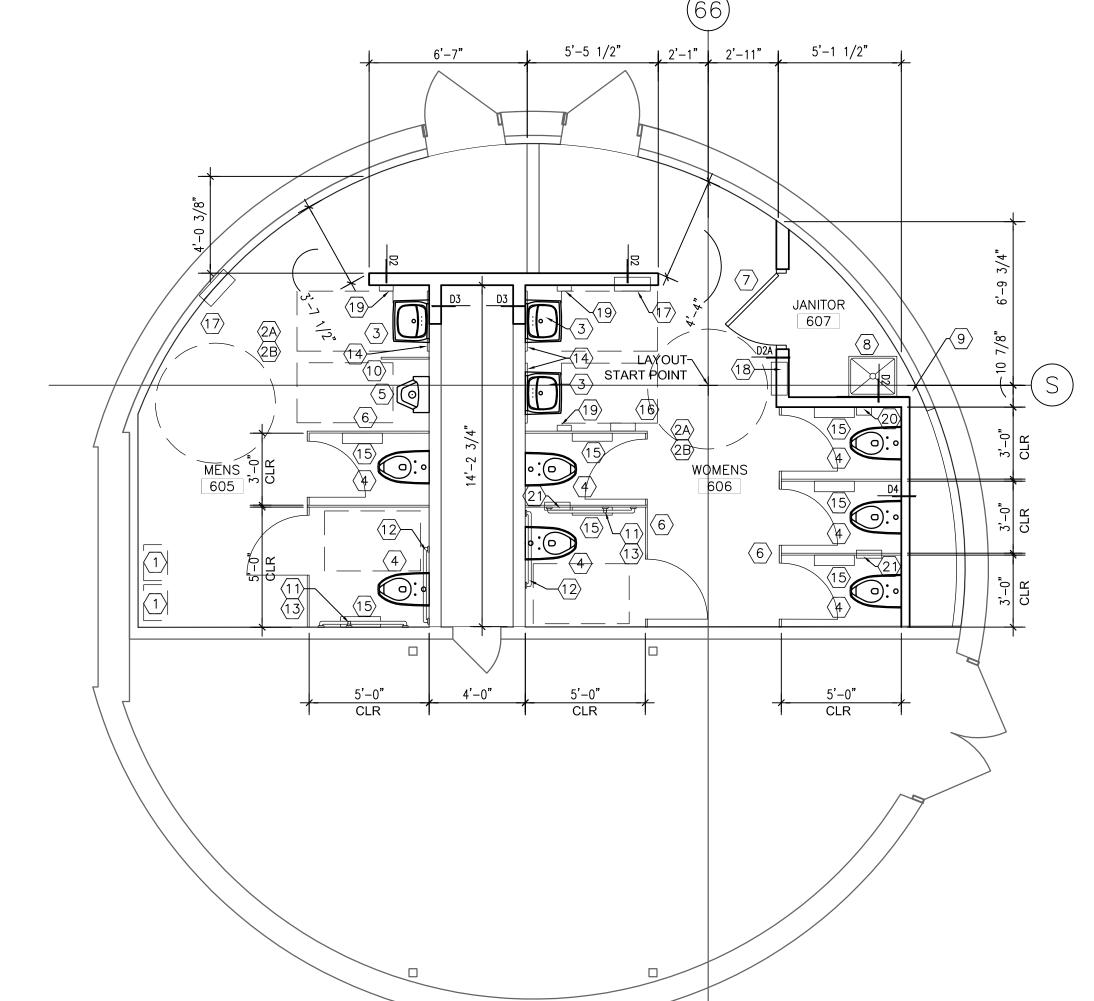
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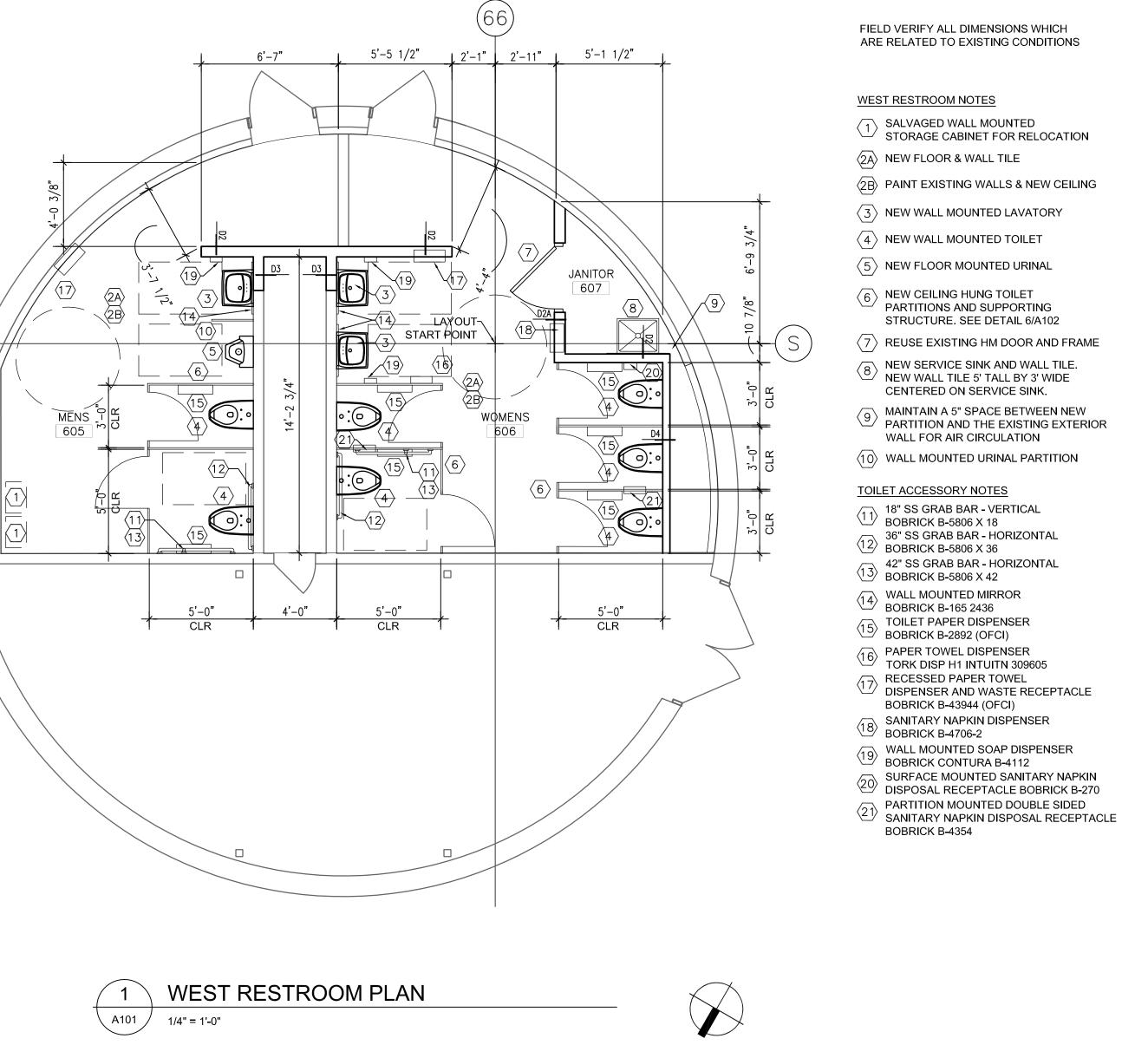
COVER DRAWING

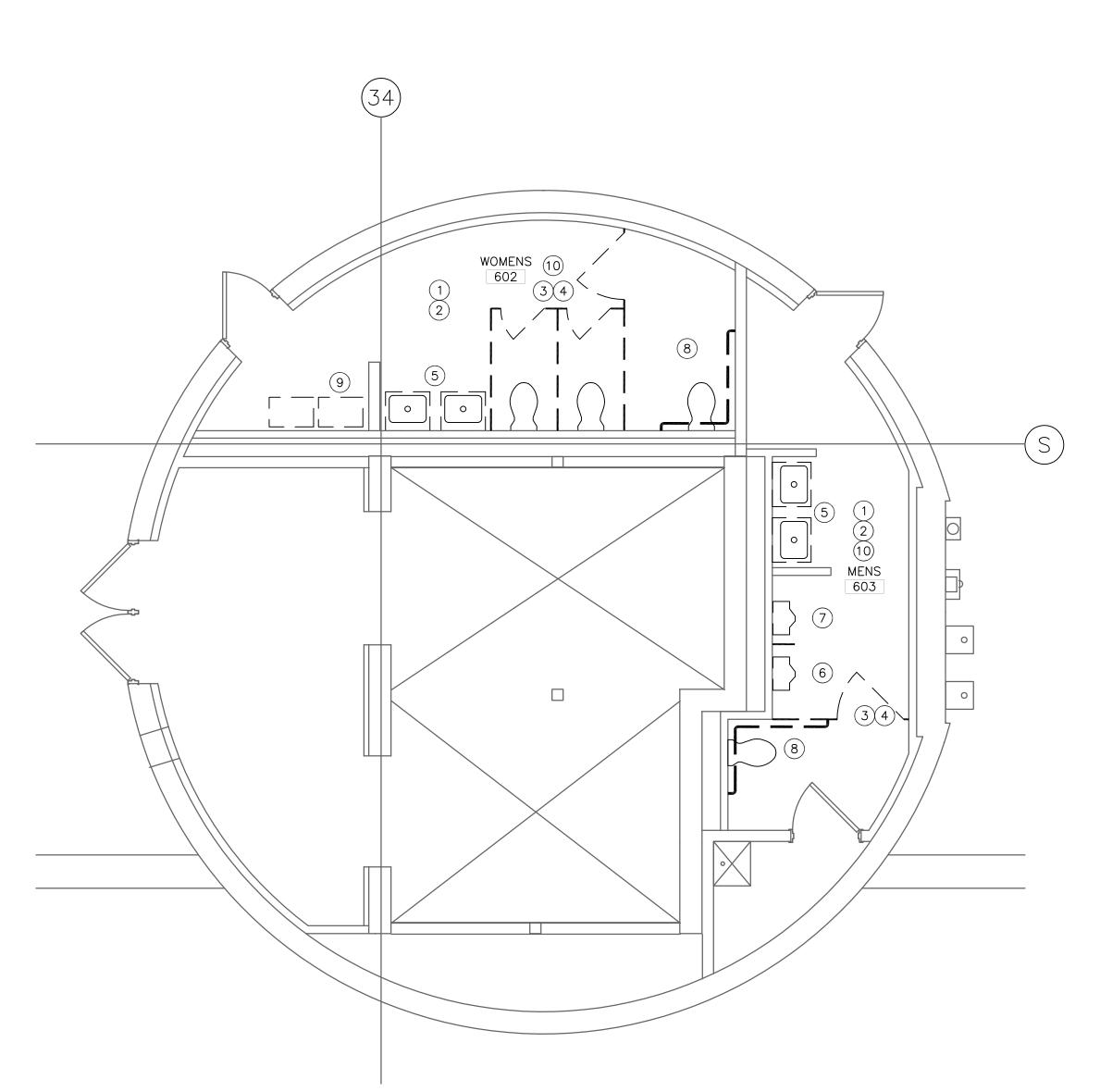
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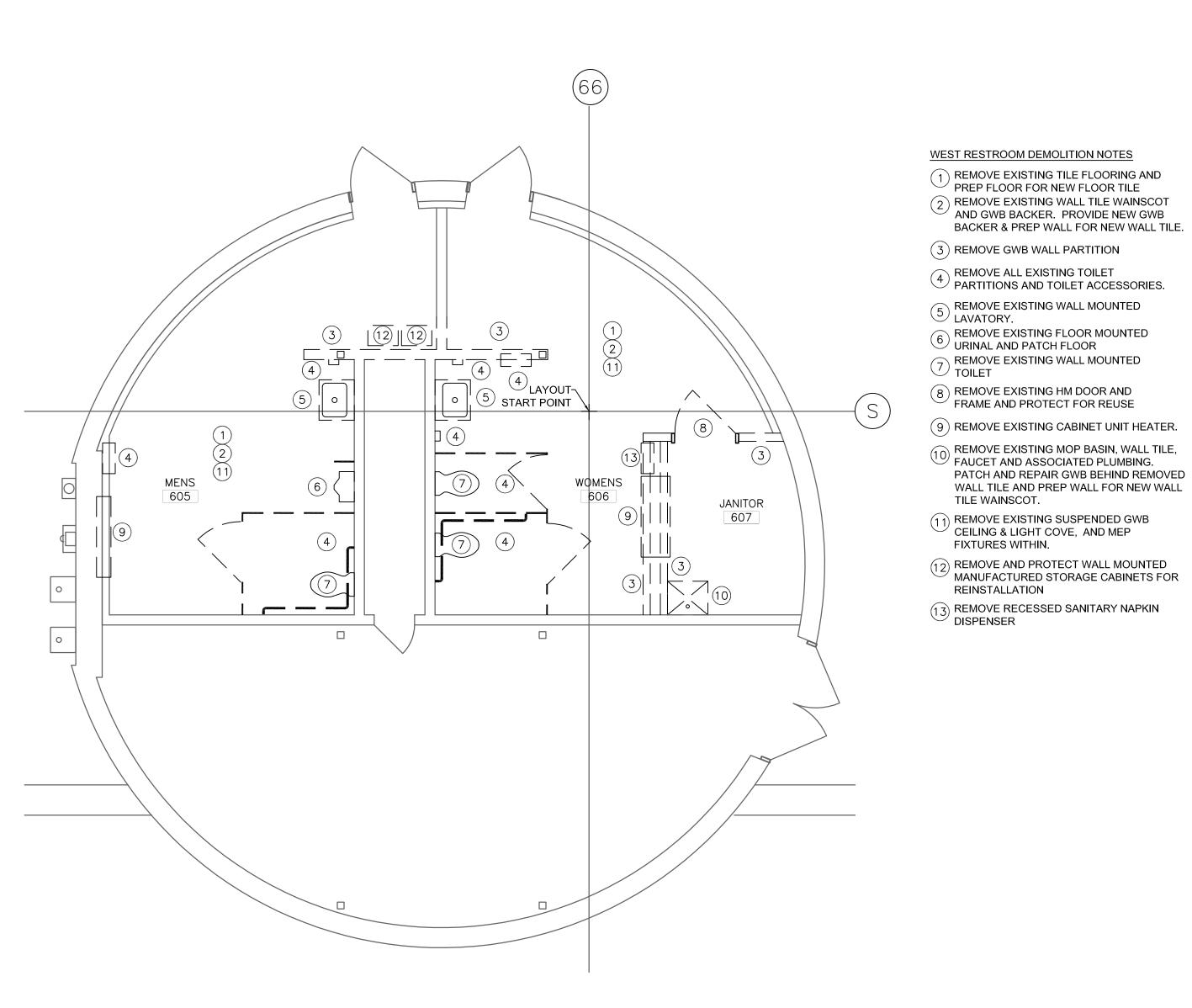
EAST RESTROOM DEMOLITION PLAN

EAST RESTROOM DEMOLITION NOTES 1 REMOVE EXISTING TILE FLOORING AND PREP FLOOR FOR NEW TILE FLOORING 2) REMOVE EXISTING WALL TILE WAINSCOT AND GWB BACKER. PROVIDE NEW GWB BACKER AND PREP WALL FOR NEW WALL TILE WAINSCOT. (3) REMOVE ALL EXISTING TOILET PARTITIONS (4) REMOVE ALL EXISTING TOILET ACCESSORIES (5) REMOVE EXISTING WALL MOUNTED LAVATORIES

(6) REMOVE EXISTING FLOOR MOUNTED URINAL (7) REMOVE EXISTING WALL MOUNTED URINAL

(8) REMOVE EXISTING WALL MOUNTED TOILETS 9 REMOVE AND PROTECT WALL MOUNTED MANUFACTURED STORAGE CABINETS FOR REINSTALLATION

(10) EXISTING GWB CEILING & GWB LIGHT COVE TO REMAIN.



 $\overset{ extstyle 4}{\smile}$ PARTITIONS AND TOILET ACCESSORIES. 5 REMOVE EXISTING WALL MOUNTED LAVATORY. 6 REMOVE EXISTING FLOOR MOUNTED URINAL AND PATCH FLOOR Monona Terrace 7 REMOVE EXISTING WALL MOUNTED TOILET Roof Garden

Madison, Wisconsin

Project # 2014.41.00

Date	Issuance/Revisions	Syml

Restrooms Alteration

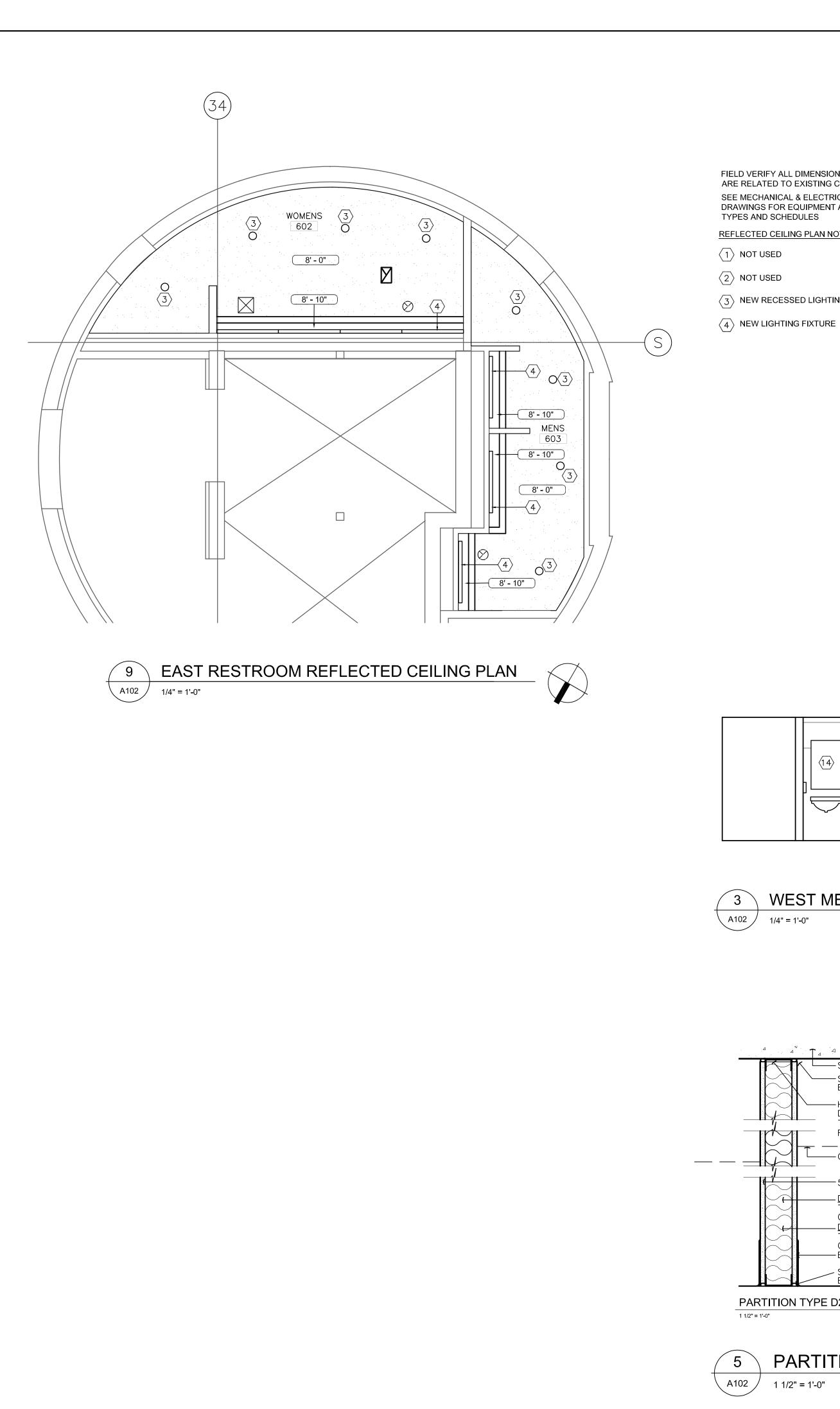
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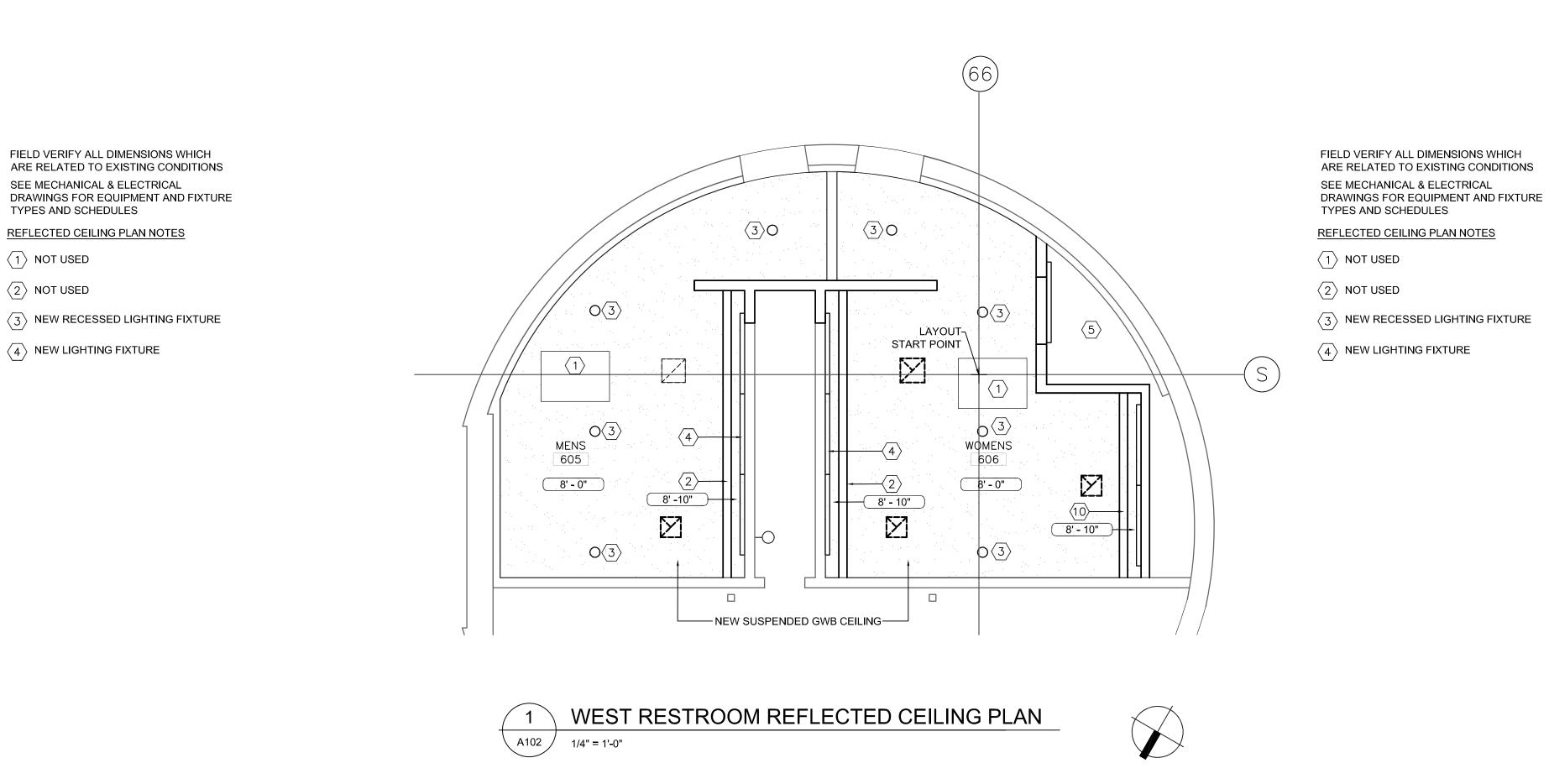
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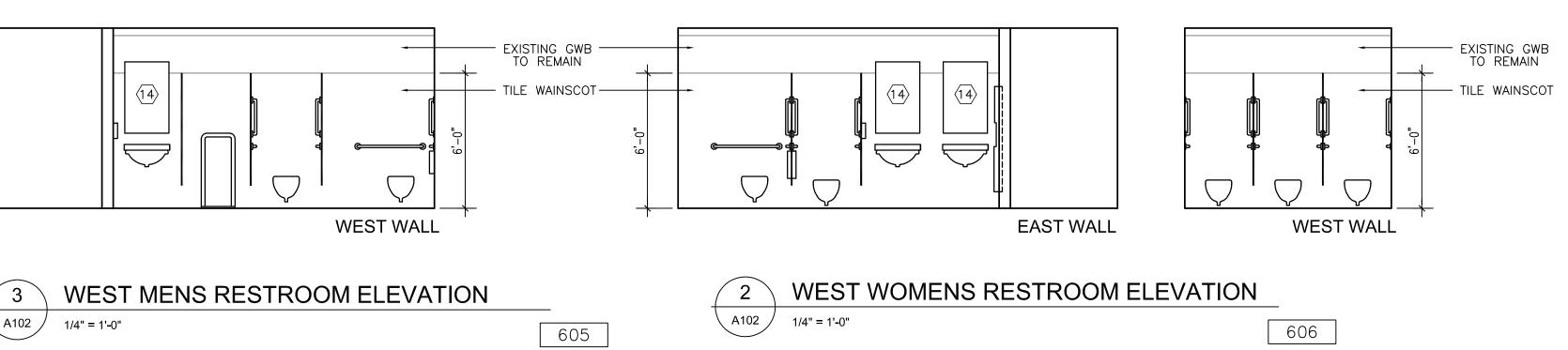
FLOOR AND DEMOLITION PLANS

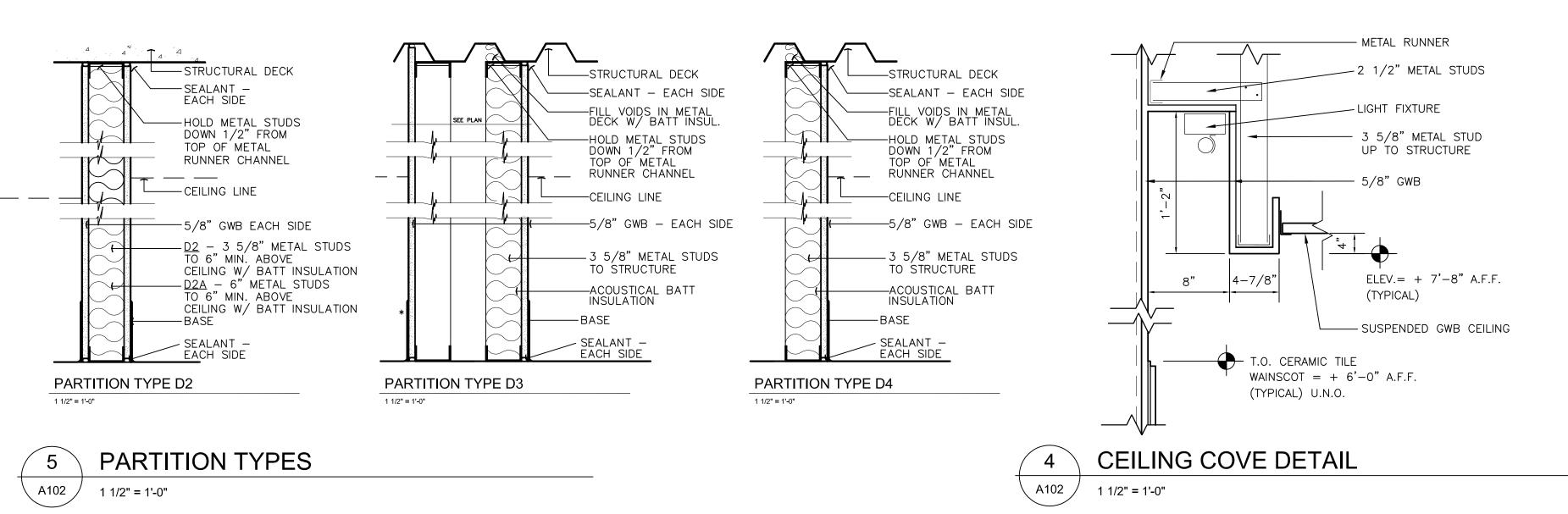
WEST RESTROOM DEMOLITION PLAN

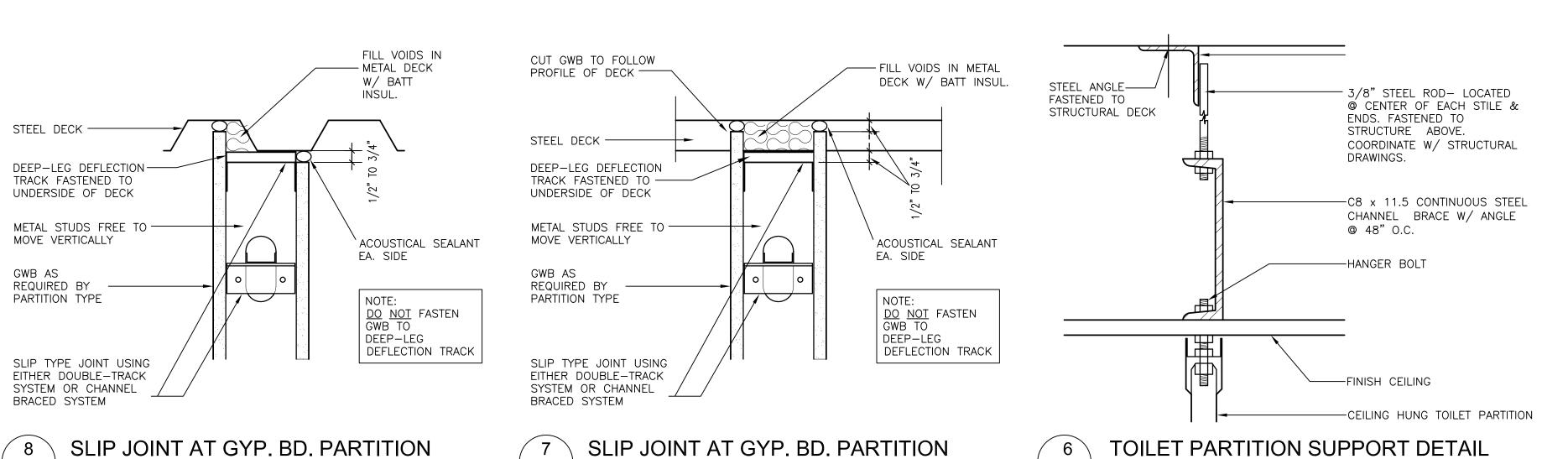


A102 3" = 1'-0"



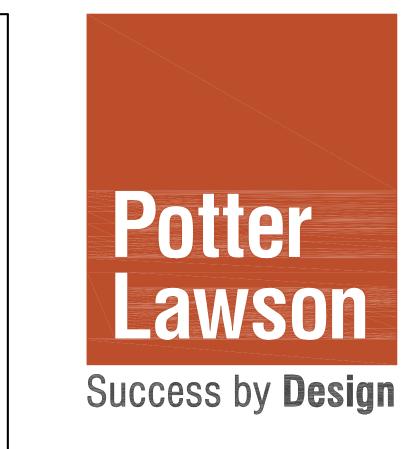






NON-RATED PARTITION A102 3" = 1'-0"

NON-RATED PARTITION A102 3" = 1'-0"



Monona Terrace
Roof Garden
Restrooms Alteration

Madison, Wisconsin

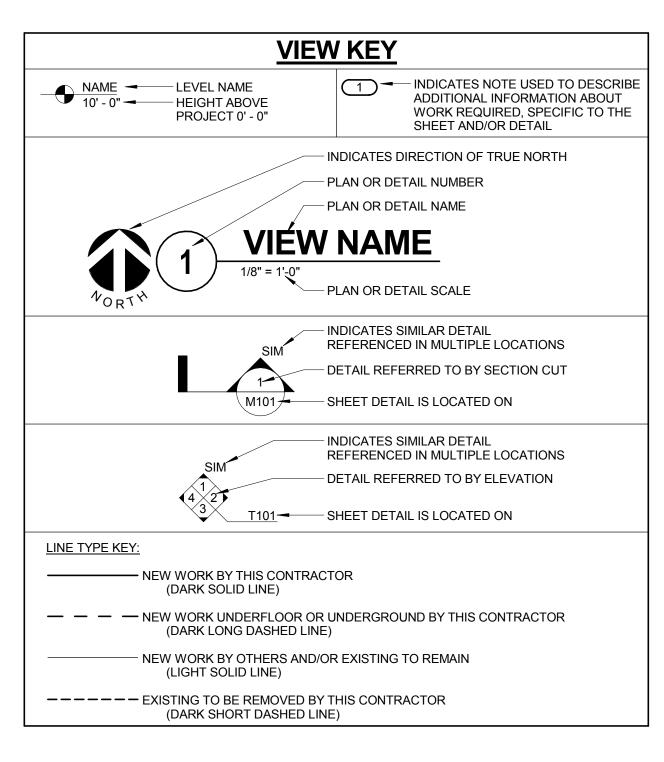
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Date	Issuance/Revisions	Sym
08/14/2015	BID DOCUMENTS	

REFLECTED CEILING PLANS, ELEVATIONS, PARTITION TYPES AND DETAILS

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A102



	NOT ALL SYMBOLS MAY APPLY.
YMBOL:	DESCRIPTION:
DFP	DRAIN
—FP——	FIRE PROTECTION
	PIPE CAP
<u></u>	PIPE DOWN
<u> </u>	PIPE UP OR UP/DOWN
	NEW CONNECTION
—	SHUTOFF VALVE NORMALLY OPEN
O HATCH	LIGHT HAZARD
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	DEMOLITION

	CONTRACTOR ABBREVIATION KEY		
ABBR:	DESCRIPTION:		
E.C.	ELECTRICAL CONTRACTOR		
F.P.C.	FIRE PROTECTION CONTRACTOR		
G.C.	GENERAL CONTRACTOR		
M.C.	MECHANICAL CONTRACTOR		
P.C.	PLUMBING CONTRACTOR		

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT. ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE, BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED

MBOL:	DESCRIPTION:
-DFP	DRAIN
—FP——	FIRE PROTECTION
	PIPE CAP
<u>_</u>	PIPE DOWN
 0	PIPE UP OR UP/DOWN
—II	NEW CONNECTION
—	SHUTOFF VALVE NORMALLY OPEN
О НАТСН	LIGHT HAZARD
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	DEMOLITION

FIRE SPRINKLER USAGE SCHEDULE

NOTES: 1. SEE FLOOR PLANS FOR ZONING REQUIREMENTS. 2. SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT. 3. ALL SPRINKLERS SHALL BE UL AND FM LISTED. 4. CONTRACTOR TO VERIFY

				•	•			REMENTS. 5. TAG NAME IS PRIMARILY FOR IDENTIFIYING SPRINKLERS IN SUBMITTALS. IT I AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMI
			SPRINKL	.ER				
AREA TYPE	AREA	TAG NAME	SPRINKLER	RESPONSE		TEMPERATURE	MANUFACTURER &	
(NOTE 1 & 6)	HAZARD	(NOTE 4 & 5)	TYPE	CATEGORY	FINISH	RATING	MODEL	NOTES
PLUMBING	SEE PLANS	SPR-1	UPRIGHT	QUICK	ROUGH BRASS	155	VIKING VK, RELIABLE F1FR,	NOTE 3
CHASE, JANITOR CLOSET							TYCO TY-FRB, VICTAULIC V2704	
BATHROOMS	SEE PLANS	SPR-2	RECESSED PENDENT	QUICK	CHROME PLATED	155	VIKING VK, RELIABLE F1FR, TYCO TY-FRB, VICTAULIC V2708	NOTES 2, 3

FIRE PROTECTION GENERAL NOTES:

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO,

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS,

2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE

FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS WORK AND

SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS AREA OF WORK

. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW

EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER

ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW

6. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING

7. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE

IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS.

. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE

OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM.

9. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT

EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY

FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE

FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

CONFLICTS BEFORE PROCEEDING.

CONSTRUCTION.

HAS BEEN REMOVED.

- 1. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL LAYOUT. DETERMINE EXACT NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING.
- 2. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING PATTERN IS ACCEPTABLE.

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL. 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS

2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM

ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE

REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS. 5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE

6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN. 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES. OTHER THAN SPRINKLERS.

8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH. 9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR

10. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS. 11. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.

12. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING,

13. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.

14. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS,

SWITCHES, AND DISCONNECTS. 15. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

FIRE PROTECTION SHEET INDEX

FIRE PROTECTION COVER SHEET PARTIAL FLOOR PLANS - FIRE PROTECTION

Success by **Design**

ENGINEERING
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MADISON, WISCONSIN 53713-1839
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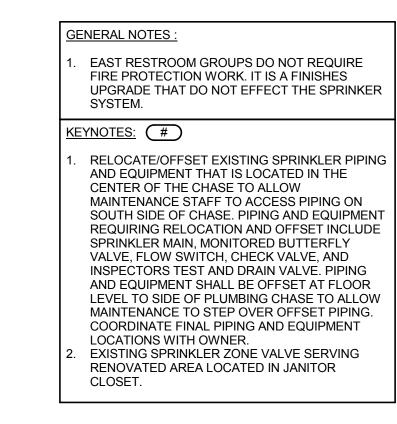
Monona Terrace Roof Garden **Restrooms Alteration**

Madison, Wisconsin

Project # 2014.41.00

08/14/15 BID DOCUMENTS

FIRE PROTECTION **COVER SHEET**



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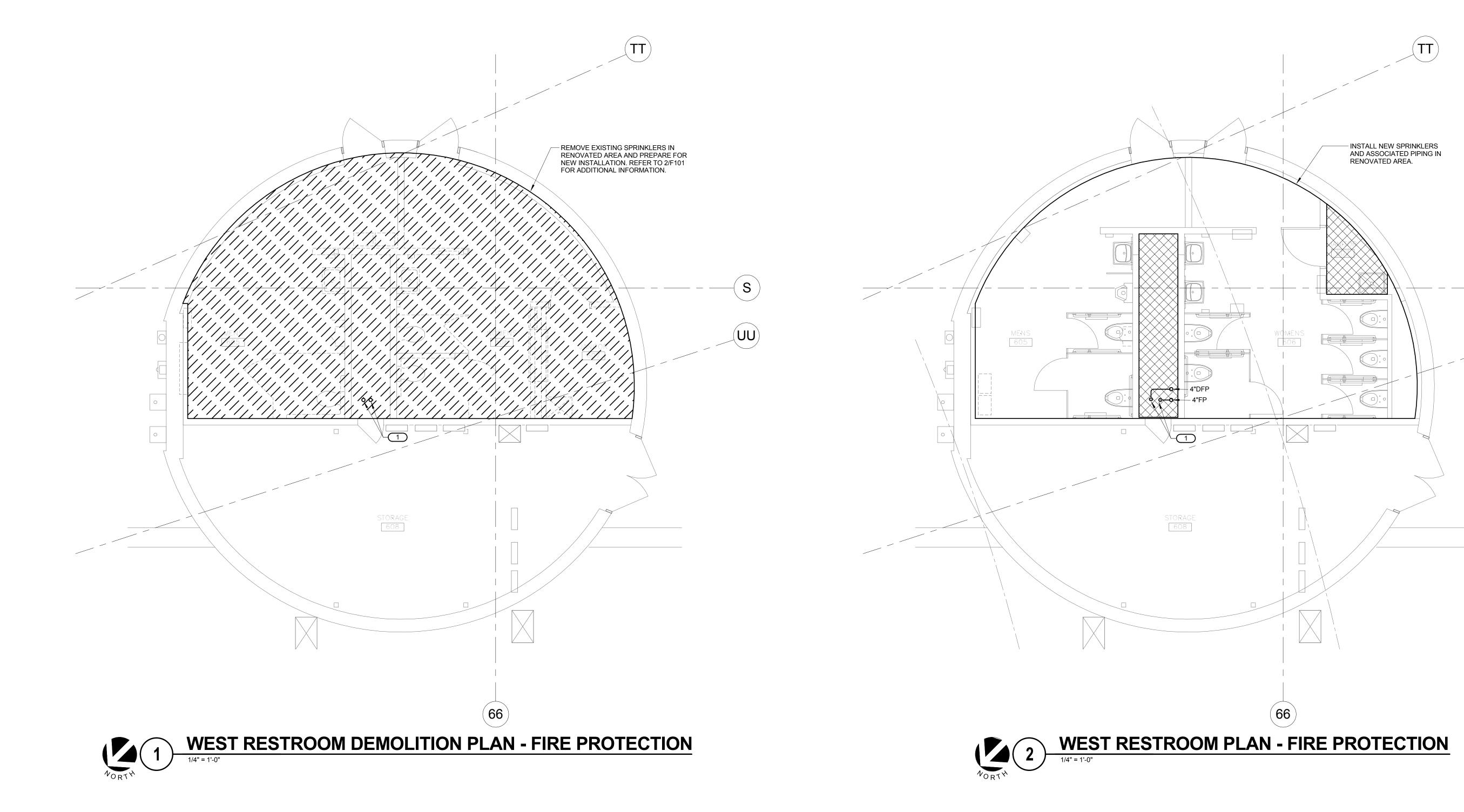
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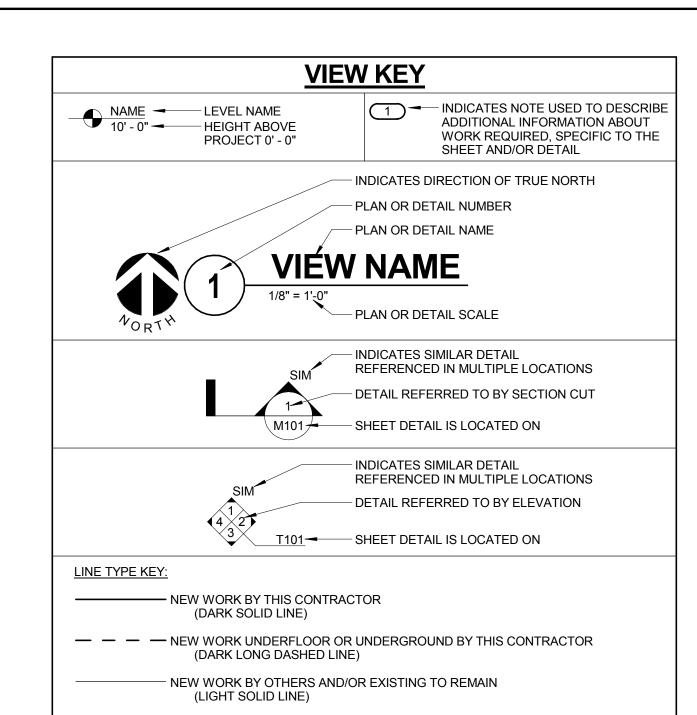
Madison, Wisconsin

Project # 2014.41.00

08/14/15 BID DOCUMENT

PARTIAL FLOOR PLANS - FIRE PROTECTION





FIRE / SMOKE BARRIER DESIGNATIONS

---- EXISTING TO BE REMOVED BY THIS CONTRACTOR

(DARK SHORT DASHED LINE)

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT. ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE, BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 06/24/2015.

CONTRACTOR ABBREVIATION KEY		
ABBR: DESCRIPTION:		
E.C.	ELECTRICAL CONTRACTOR	
F.P.C.	FIRE PROTECTION CONTRACTOR	
G.C.	GENERAL CONTRACTOR	
M.C. P.C.	MECHANICAL CONTRACTOR PLUMBING CONTRACTOR	

	PLUMBING SYMBOL LIST		
	NOT ALL SYMBOLS MAY APPLY.		
SYMBOL:	DESCRIPTION:		
CW	COLD WATER - POTABLE		
D	DRAIN		
——HW——	HOT WATER - POTABLE		
——HWC——	HOT WATER CIRCULATING - POTABLE		
-ST(1.000)-	STORM DRAINAGE (ROOF SQUARE FOOTAGE)		
——SAN——	SANITARY DRAINAGE		
V	VENT		
 3	PIPE CAP		
	PIPE DOWN		
o	PIPE UP OR UP/DOWN		
o _{FD}	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)		
	PITCH PIPE IN DIRECTION		
	DIRECTION OF FLOW IN PIPE		
	NEW CONNECTION		
──	DIELECTRIC CONNECTION		
	UNION/FLANGE		
—₩—	SHUTOFF VALVE NORMALLY OPEN		
₩	SHUTOFF VALVE NORMALLY CLOSED		
—— <mark>⊯</mark> GPM	BALANCING VALVE (NUMBER INDICATES GPM)		
	CHECK VALVE		
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB		

PLUMBING ABBREVIATION KEY		
ABBR:	DESCRIPTION:	
AD	ACCESS DOOR	
AFF	ABOVE FINISHED FLOOR	
CO	CLEANOUT	
DF	DRINKING FOUNTAIN	
Е	EXISTING	
EWC	ELECTRIC WATER COOLER	
FCO	FLOOR CLEANOUT	
FD	FLOOR DRAIN	
НВ	HOSE BIBB	
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)	
LAV	LAVATORY	
MB	MOP BASIN	
NC	NEW CONNECTION	
RD	ROOF DRAIN	
SH	SHOWER	
TYP	TYPICAL	
SK	SINK	
UR	URINAL	
VTR	VENT THROUGH ROOF	
WC	WATER CLOSET	
WCO	WALL CLEANOUT	
WF	WASH FOUNTAIN	
WHA	WATER HAMMER ARESSTOR	
UNO	UNLESS NOTED OTHERWISE	

0)/11501	NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:	
CW	COLD WATER - POTABLE	
D	DRAIN	
HW	HOT WATER - POTABLE	
—HWC—	HOT WATER CIRCULATING - POTABLE	
—ST(1.000)—	STORM DRAINAGE (ROOF SQUARE FOOTAGE)	
—SAN—	SANITARY DRAINAGE	
V	VENT	
	PIPE CAP	
	PIPE DOWN	
	PIPE UP OR UP/DOWN	
o _{FD}	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)	
_	PITCH PIPE IN DIRECTION	
	DIRECTION OF FLOW IN PIPE	
	NEW CONNECTION	
—— I ——	DIELECTRIC CONNECTION	
	UNION/FLANGE	
── ₩──	SHUTOFF VALVE NORMALLY OPEN	
	SHUTOFF VALVE NORMALLY CLOSED	
— ⊠ GPM	BALANCING VALVE (NUMBER INDICATES GPM)	
<u> </u>	CHECK VALVE	
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB	

	PLUMBING ABBREVIATION KEY		
ABBR:	DESCRIPTION:		
AD	ACCESS DOOR		
AFF	ABOVE FINISHED FLOOR		
со	CLEANOUT		
DF	DRINKING FOUNTAIN		
E	EXISTING		
EWC	ELECTRIC WATER COOLER		
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I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)		
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UR	URINAL		
VTR	VENT THROUGH ROOF		
WC	WATER CLOSET		
WCO	WALL CLEANOUT		
WF	WASH FOUNTAIN		
WHA	WATER HAMMER ARESSTOR		
UNO	UNLESS NOTED OTHERWISE		

MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL. 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY
- CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD
- 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS AREA OF WORK.
- 5. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT
- CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. 6. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- 7. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE
- 8. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM.
- MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE. 9. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

PLUMBING FIXTURE ROUGH-IN SCHEDULE

NOTES: 1. SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINUMUM OF 2". 2. 1/2" CW AND HW APPLIES ONLY TO THE FINAL VERTICAL RISE-DROP TO EACH FIXTURE, BRANCH PIPING TO VERTICAL RISE-DROP SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. 3. SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZES LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.

		U	ICIAIL IIIL N	OUGIT-IN SIZE.			
FIXTURE DESCRIPTION	DOMESTIC CW (NOTE 3)	DOMESTIC HW (NOTE 3)	DOMESTIC TW (NOTE 3)	SANITARY (NOTE 3)	VENT (NOTE 3)	REMARKS	
FLOOR DRAIN/FLOOR SINK	-	-	-	3"	1 1/2"	-	_
LAVATORY	-	-	1/2"	1 1/4"	1 1/4"	NOTE 1 & 2	
SERVICE SINK	3/4"	3/4"	-	2"	1 1/2"	-	
URINAL	3/4"	-	-	2"	1 1/2"	-	
WATER CLOSET	1 1/4"	-	-	4"	2"	-	_
							Ξ

WATER CALCULATION WORKSHEET 90 MINIMUM PRESSURE AT CONNECTION TO CITY MAIN OR WELL TANK (PSIG) PRESSURE DROP IN 170 FEET OF 8" PIPE FROM SERVICE CONNECTION TO METER AT 228 GPM CALCULATED BUILDING DEMAND PER STATE CODE. 30 RESIDUAL PRESSURE NEEDED AT CRITICAL FIXTURE AT MAXIMUM ELEVATION. 20 PRESSURE DROP OF ELEVATION DIFFERENCE FROM SERVICE CONNECTION TO LIMITING FIXTURE. ELEVATION DIFFERENCE IN FEET X 0.434 = PS4 PRESSURE DROP THROUGH 4" WATER METER. = 36 PRESSURE DROP AVAILABLE FOR PIPING SYSTEM LOSSES (PSI) X 100 MULTIPLY TO CONVERT FROM PSI/FOOT TO PSI/100 FEET / 860 DIVIDE BY EQUIVALENT LENGTH OF PIPING FROM METER TO CRITICAL FIXTURE (FEET) X 1.5 (FITTING LOSS))

= 4 MAXIMUM ALLOWABLE PIPING PRESSURE DROP (PSI/100 FEET).

FOR LARGER PIPING, BUT NOT OVER 6 PSI/100 FEET OR 8 FPS FOR ANY SIZE.

PIPE SIZING IS PER SPS382 TABLE 382.40-5 UP TO 2" SIZE AND SPS382 TABLE 382.40-7

PLUMBING GENERAL NOTES:

- 1. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- 2. REFER TO PLUMBING MATERIAL LIST AND ROUGH-IN SCHEDULE.

MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL. 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC, ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS
- 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR
- PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR
- EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- 5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE
- 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN. 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- 8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS. FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH. 9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL
- 10. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.

TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR

- 11. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 12. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT
- MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC. 13. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- 14. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS. 15. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING SHEET INDEX

COVER SHEET - PLUMBING PARTIAL DEMOLITION FLOOR PLANS - PLUMBING PARTIAL FLOOR PLANS - PLUMBING P200 RISER DIAGRAMS - PLUMBING

PLUMBING FIXTURE SCHEDULE							
TAG NAME	DESCRIPTION	MANF. & MODEL					
L-1	LAVATORY - ACCESSIBLE, WALL MOUNTED, WHITE VITREOUS CHINA, 20"x18", 4" HIGH CONTOURED BACKSPLASH, SINGLE FAUCET HOLE, DRILLED FOR CONCEALED ARM CARRIER.	LAVATORY - KOHLER (K-2007) LAVATORY TRIM - KOHLER (K-13462)					
	LAVATORY TRIM - LAVATORY TRIM - SENSOR ACTIVATED MIXING FAUCET, HARD-WIRED, BRASS CONSTRUCTION, CHROME-PLATED FINISH, CONVENTIONAL SPOUT WITH VANDAL RESISTANT OUTLET, SINGLE HOLE, PERFORATED GRID STRAINER WITH 1-1/4" 17 GAUGE TAILPIECE, SOLID BRASS SOLENOID WITH BUILT-IN FILTER, SOLID BRASS THERMOSTATIC MIXING VALVE MEETING ASSE 1070 REQUIREMENTS WITH ADJUSTABLE TEMPERATURE LIMIT STOP AND INTEGRAL CHECK VALVES, WATERPROOF CONNECTORS AND CABLE, UL APPROVED TRANSFORMER.	INSULATION KIT - TRUEBRO (LAV-GUARD), BROCAR PRODUCTS (TRAP WRAP), MCGUIRE (PROWRAP), PLUMBEREX (PRO-EXTREME)					
	ELECTRICAL REQUIREMENTS - 120 VAC INPUT						
	MOUNT CONTROLS AND TRANSFORMER FOR EAST TOILET ROOM IN PLUMBING CHASE BETWEEN TOILET ROOMS. MOUNT CONTROLS AND TRANSFORMER FOR WEST TOILET ROOM IN EXISTING ACCESS PANEL CONTAINING MIXING VALVE. PROVIDE TRANSFORMER WITH CABLE EXTENSIONS (AS REQUIRED) OR PLUG-IN TRANSFORMER. MOUNT TRANSFORMER IN ACCESSIBLE PIPE CHASE. SELECT TRANSFORMER TO SERVE MAXIMUM NUMBER OF ELECTRONIC VALVES TO REDUCE AMOUNT OF TRANSFORMERS.						
	MAXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M.FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED.						
	INSULATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES AND SUPPLY LINES.						
	ACCESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY LOOSE KEY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES, DRAIN AND OFFSET TAILPIECE, 1-1/4" 20 GAUGE CAST BRASS P-TRAP, SUPPORT CARRIER.						
	MOUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 34" ABOVE FLOOR IN COMPLIANCE WITH LATEST ADA STANDARD. PROVIDE 29" MINIMUM CLEARANCE FROM FLOOR TO BOTTOM OF APRON IN COMPLIANCE WITH LATEST ANSI A117.1 AND ADA STANDARDS. ARMAFLEX WITH TAPE IS NOT ACCEPTABLE IN LIEU OF INSULATION KIT.						
MV-1	MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH CHECK STOPS/STRAINERS.	LEONARD (170-LF/270-LF/370-LF), ACORN CONTROLS (ST7069), APOLLO (34BLF), BRADLEY (S59 SERIES), LAWLER (310/570), POWERS (SERIES LFLM495), SYMMONS (MAXLINE SERIES), WATTS (LFMMV), WILKII (ZW1070XL)					
	RATED FOR 1.5 GPM OUTPUT MAXIMUM AT 5 PSI DIFFERENTIAL AND 0.5 GPM OUTPUT MINIMUM. UNIT TO MIX 120 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET.						
	UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874.						
SS-1	SERVICE SINK - SINGLE TUB, MOLDED-STONE CONSTRUCTION, FLOOR [WALL] MOUNTED, 23"x22", 14" DEEP, DRAINING SOAP TRAY, [WHITE BAKED ENAMEL SELF-LEVELING LEGS WITH FLOOR ANCHORS][HEAVY-DUTY WALL BRACKET AND ASSOCIATED HANGERS], DRAIN OPENING.	SINK - FIAT (FL-1)(L-1), SWAN (MF-1F)(MF-1W) TRIM - DELTA (28C2393), AMERICAN STANDARD (8344.012), MOEN (8124), SPEAKMAN (SC-5812), SYMMONS (S-2490), ZURN (Z841M1-XL)					
	TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAMIC DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH SCREW TYPE VACUUM BREAKER SIMILIAR TO WATTS 8A, WALL BRACE, PAIL HOOK, CHECK STOPS OR INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874.						
	ACCESSORIES - REMOVABLE STRAINER PLATE AND NEOPRENE STOPPER, 1-1/2" 17 GAUGE CHROME PLATED BRASS TAILPIECE, 1-1/2" CAST BRASS P-TRAP, QUARTER-TURN 3/8" CHROME PLATED BRASS ANGLE SUPPLIES WITH [LOOSE KEY] STOPS, INLINE CHECK VALVES TO PREVENT THERMAL CROSSOVER CHROME						

VALVES TO PREVENT THERMAL CROSSOVER, CHROME

PLATED SOFT COPPER SUPPLY LINES.

TAG NAME		MANF. & MODEL
UR-1	URINAL - ACCESSIBLE, FLOOR MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, LOW CONSUMPTION, 3/4" TOP SPUD, 2" OUTLET.	URINAL - KOHLER (K-4920-T) FLUSH VALVE - ZURN (ZEMS6003AV), SLOAN (ROYAL 18 ES-S), AMERICAN STANDARD (6062.101), DELANY (1351)
	FLUSH VALVE - EXPOSED, SENSOR OPERATION, HARD WIRED, 1.0 GALLON PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, RANGE ADJUSTMENT SCREW, BEAM DEFLECTOR, CHROME-PLATED COVER PLATE WITH TAMPER-PROOF SCREWS, TRANSFORMER AND LOW VOLTAGE WIRING, TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, LOW VOLTAGE WIRING FROM TRANSFORMER TO EACH FLUSH VALVE, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY.	ES-S), AMERICAN STANDARD (6062.101), DELANY (1351 HYDROTEK (H-8000C), MOEN (8312AC10)
	ELECTRICAL REQUIREMENTS - 120VAC INPUT	
	MOUNT CONTROLS/TRANSFORMER FOR SENSOR ACTIVATED IN PLUMBING CHASE BETWEEN TOILET ROOMS IN WEST TOILET ROOM. EAST TOILET ROOM CONTROLS/TRANSFORMER REMAIN IN SAME LOCATION AS NOTED ON PLUMBING PLAN.	
UR-2	URINAL - WALL MOUNTED, WHITE VITREOUS CHINA, FLUSH VALVE TYPE, WASHOUT ACTION, LOW CONSUMPTION, ELONGATED RIM, EXTENDED SIDE SHIELDS, 3/4" TOP SPUD, 2" OUTLET.	FLUSH VALVE - ZURN (ZEMS6003AV), SLOAN (ROYAL 18 ES-S), AMERICAN STANDARD (6062.101), DELANY (1351
	FLUSH VALVE - EXPOSED, SENSOR OPERATION, HARD WIRED, 1.0 GALLON PER FLUSH, 11-1/2" ROUGH-IN, CHROME-PLATED, 3/4" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, MANUAL OVER-RIDE, RANGE ADJUSTMENT SCREW, BEAM DEFLECTOR, CHROME-PLATED COVER PLATE WITH TAMPER-PROOF SCREWS, TRANSFORMER AND LOW VOLTAGE WIRING, TRANSFORMER CAPABLE OF OPERATING UP TO 10 UNITS, LOW VOLTAGE WIRING FROM TRANSFORMER TO EACH FLUSH VALVE, CHLORAMINE RESISTANT MATERIALS, 3-YEAR WARRANTY.	HYDROTEK (H-8000C), MOEN (8312AC10)
	ACCESSORIES - SUPPORT CARRIER WITH TOP AND BOTTOM BEARING PLATES.	
	ELECTRICAL REQUIREMENTS - 120VAC INPUT	
	MOUNT WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF BOWL RIM SHALL BE AT 22" ABOVE FLOOR.	
	MOUNT CONTROLS/TRANSFORMER FOR SENSOR ACTIVATED IN PLUMBING CHASE BETWEEN TOILET ROOMS IN WEST TOILET ROOM. EAST TOILET ROOM CONTROLS/TRANSFORMER REMAIN AS NOTED ON PLUMBING PLAN.	
WC-1	WATER CLOSET - WALL MOUNTED, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD.	WATER CLOSET - KOHLER (K-4325-0) FLUSH VALVE - KOHLER (K-13516-CP)
	FLUSH VALVE - FLUSH VALVE - EXPOSED, MANUAL OPERATION, 1.6 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, CHLORAMINE RESISTANT MATERIALS, ADA COMPLIANT, 3 YEAR WARRANTY.	SEAT - KOHLER (K-4731-C)
	SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.	
	ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS.	
	MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	

PLUMBING FIXTURE SCHEDULE

TAG NAME	DESCRIPTION	MANF. & MODEL
WC-2	WATER CLOSET - ACCESSIBLE, WALL MOUNTED, FLUSH	WATER CLOSET - KOHLER (K-4325-0)
	VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, WATER SAVING, ELONGATED BOWL, 1-1/2" TOP SPUD.	FLUSH VALVE - KOHLER (K-13516-CP)
	FLUSH VALVE - FLUSH VALVE - EXPOSED, MANUAL OPERATION, 1.6 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK VALVE WITH VANDAL RESISTANT CAP, HIGH BACK PRESSURE VACUUM BREAKER, NON-HOLD-OPEN HANDLE, ADJUSTABLE TAILPIECE, SPUD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREW, CHLORAMINE RESISTANT MATERIALS, ADA COMPLIANT, 3 YEAR WARRANTY.	SEAT - KOHLER (K-4731-C)
	SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS.	
	ACCESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS.	
	MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE AT 12" (MAXIMUM) ABOVE BOWL RIM AND OPERATE WITH NO GREATER THAN 5 LB FORCE IN COMPLIANCE WITH LATEST ADA STANDARDS. VERIFY EQUIPMENT REQUIREMENTS AND ROUGH-IN LOCATIONS.	
WCO-1	WALL CLEANOUT - END CAP, CAST IRON ACCESS BODY, GAS AND WATERTIGHT BRONZE OR BRASS THREADED PLUG, ROUND STAINLESS STEEL ACCESS COVER, EXTENDED MACHINE SCREW.	ZURN (Z-1441), SMITH (4422), WADE (W-8480-R/8550), JOSAM (58600-CO), WATTS (CO-380-RD)
WHA-1	WATER HAMMER ARRESTER - BELLOWS TYPE, PRE-CHARGED, ALL LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR 1-11 FIXTURE UNITS.	ZURN (Z1700), JR SMITH (5005-5050), WADE (W5-100), JOSAM (75000 SERIES), WATTS (SS), MIFAB (WHB)
	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	
WHA-2	WATER HAMMER ARRESTER - BELLOWS TYPE, PRE-CHARGED, ALL LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE 1010 APPROVED, PDI CERTIFIED, RATED FOR 12-32 FIXTURE UNITS.	ZURN (Z1700), JR SMITH (5005-5050), WADE (W5-100), JOSAM (75000 SERIES), WATTS (SS), MIFAB (WHB)
	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	



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Monona Terrace Roof Garden **Restrooms Alteration**

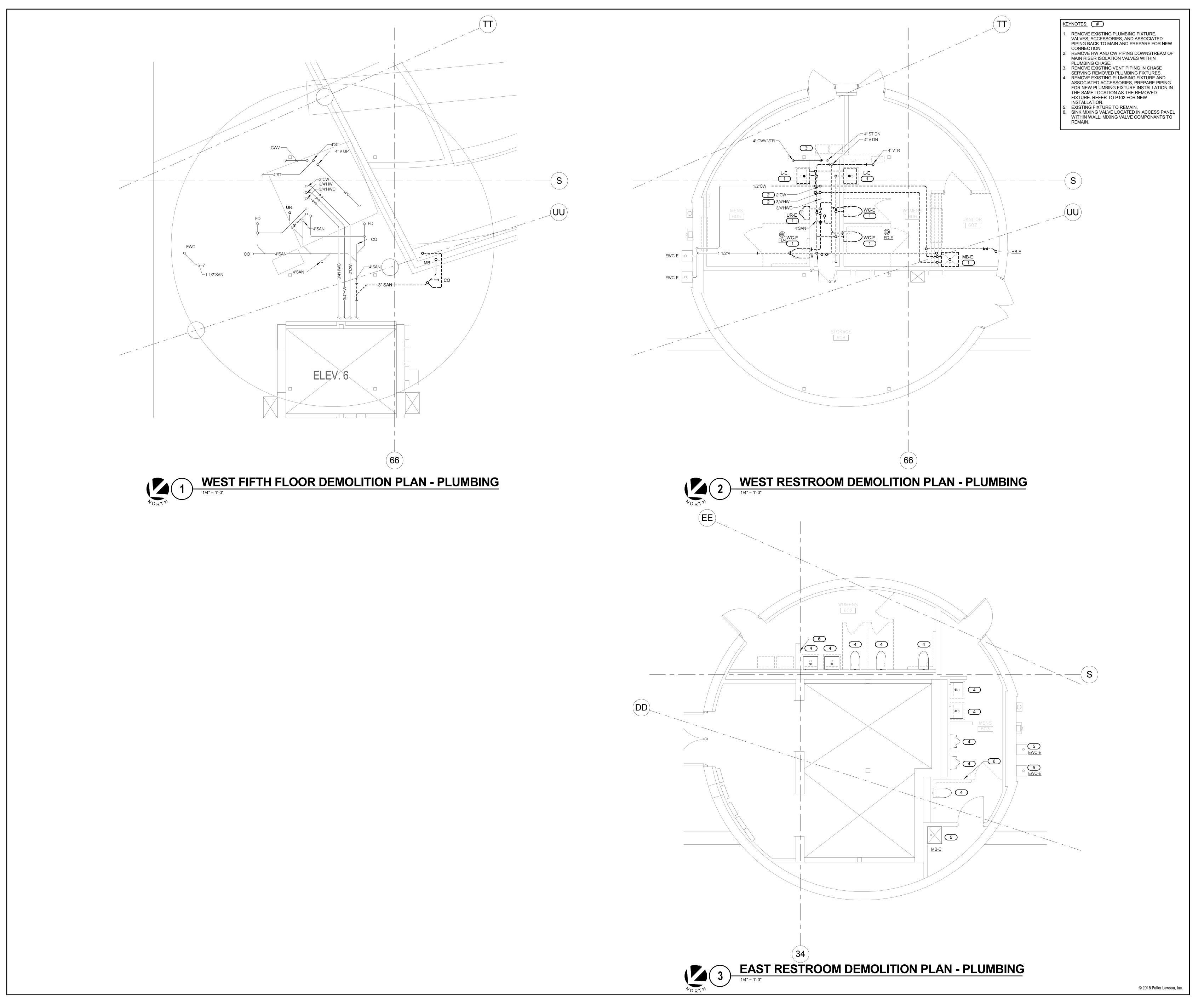
Madison, Wisconsin

Project # 2014.41.00

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COVER SHEET -PLUMBING



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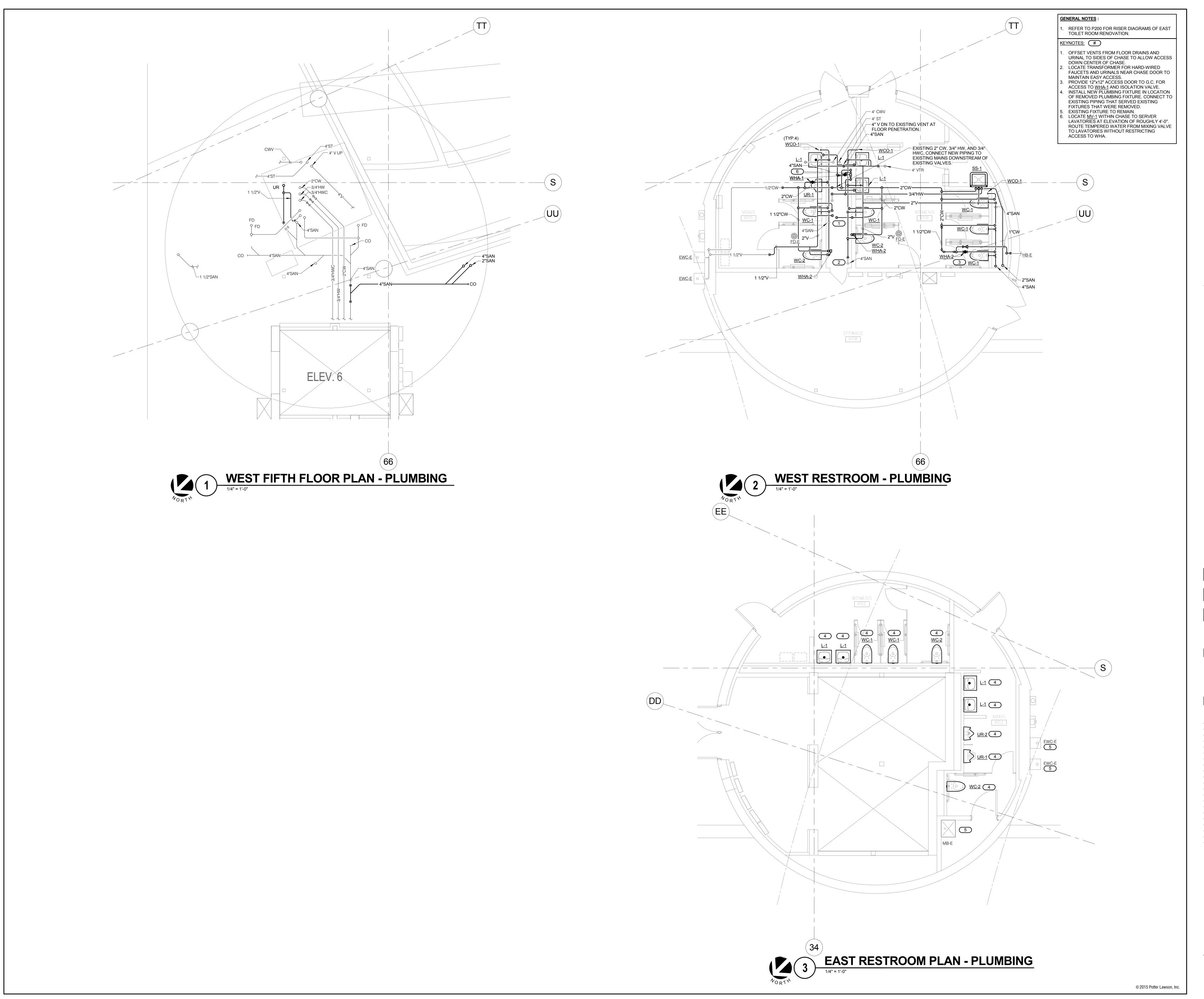
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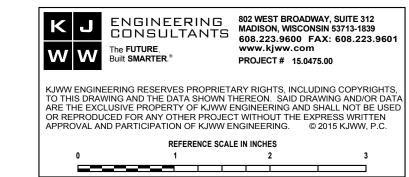
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PARTIAL
DEMOLITION
FLOOR PLANS PLUMBING





Notes:

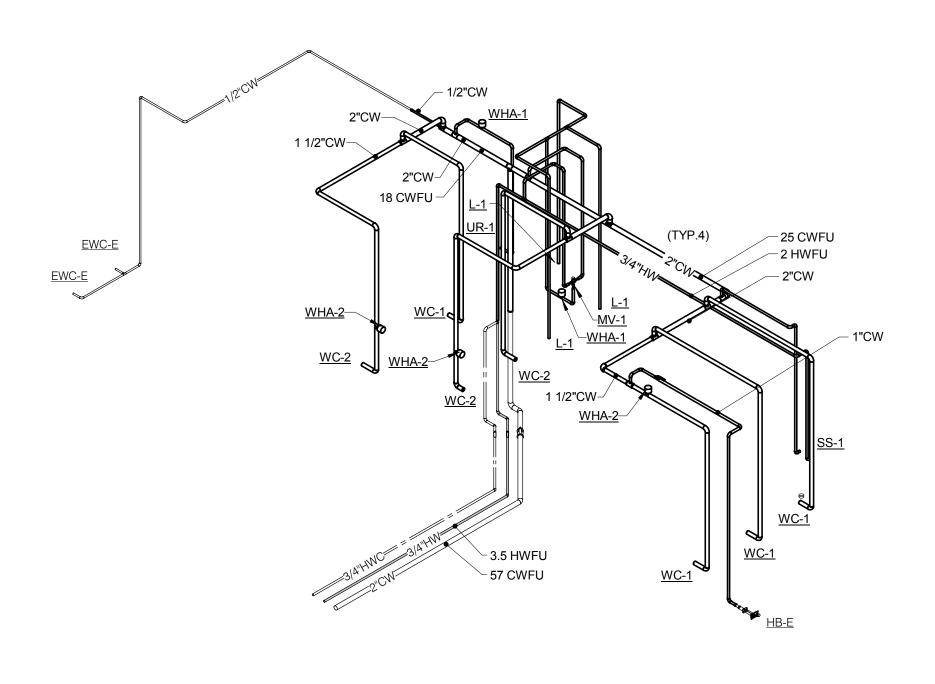
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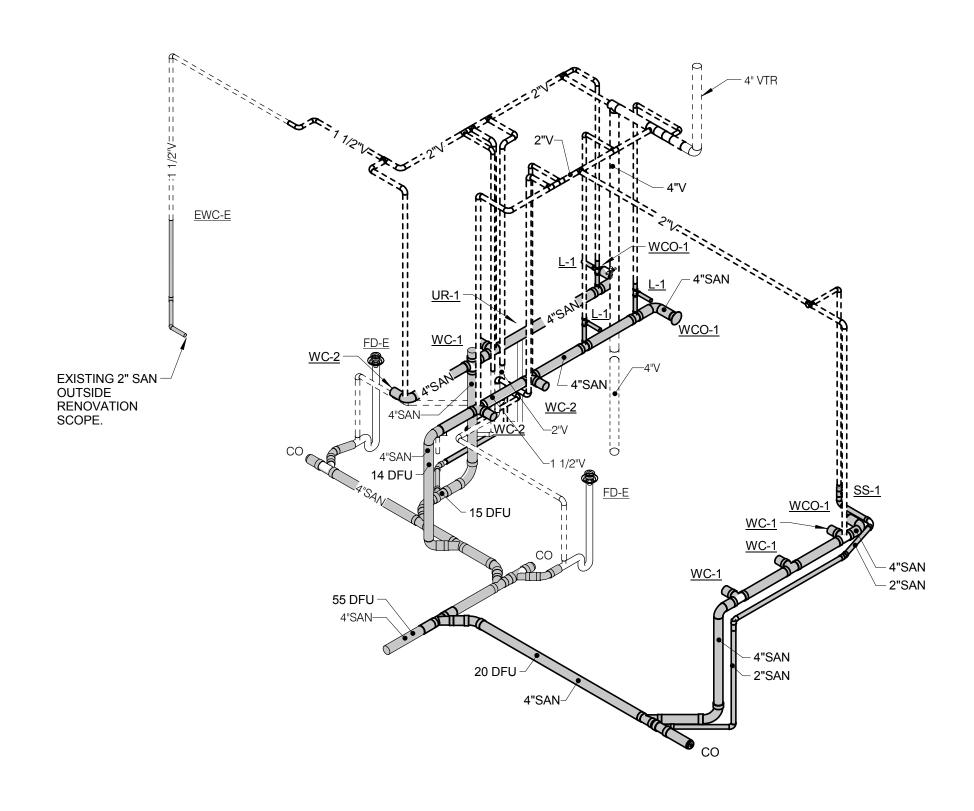
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PARTIAL FLOOR PLANS -PLUMBING





DOMESTIC RISER DIAGRAM - WEST RESTROOM - PLUMBING
NO SCALE

2 SAN/VENT RISER DIAGRAM - WEST RESTROOM - PLUMBING
NO SCALE



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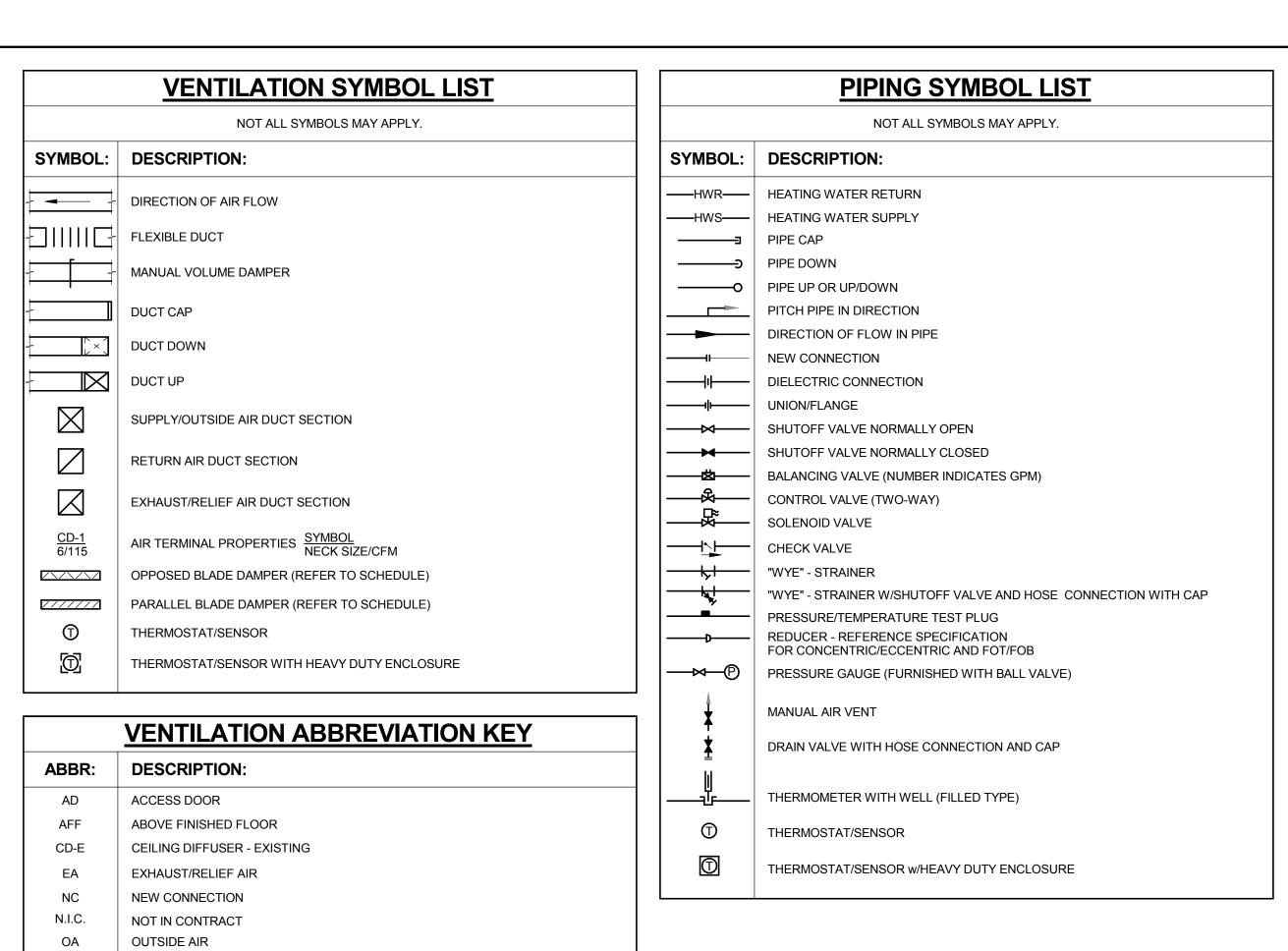
Madison, Wisconsin

Project # 2014.41.00

08/14/15 BID DOCUMENTS

RISER DIAGRAMS -PLUMBING

P200



W.P.D. FT. CONTROL TYPE

MAX. AMCA BACKDRAFT CURB TYPE

CONFIGURATION | ORIENTATION | INSULATED

HORIZONTAL

1 1/4"

SONES DAMPER TYPE (NOTE G)

MOD-3

W.P.D. FT.

HORIZONTAL 210 6.8 0.8 180 150 1.0 0.05 1350 115 1 MFR

CABINET HEATER SCHEDULE - HOT WATER

FAN SCHEDULE

POSITIVE POSITION

FEEDBACK

MANUFACTURER

REQUIRED

0.75" 0.18 0.25 115

MOTOR OPERATED DAMPER SCHEDULE

FAILURE

WHITE

ELECTRICAL

(NOTE A) (NOTE B)

VIBRATION ISOLATION

DEFL.

STYLE

GRILLES REGISTERS & DIFFUSERS SCHEDULE

NOTES: 1. CONTRACTOR SHALL DETERMINE PROPER MARGIN STYLE TO MATCH CEILING CONSTRUCTION. 2. ALL RUN OUT DUCTWORK TO DIFFUSERS SHALL BE NECK SIZE UNLESS OTHERWISE NOTED

DAMPER

REQUIRED

YES

UNIT HEATER SCHEDULE - HOT WATER

RPM VOLTAGE PHASES

FACE SIZE

INLET +2

TYPE

SPRING

VOLTAGE | PHASES | (NOTE A) | (NOTE B) |

ELECTRICAL

 SPRING
 0.75"
 0.14
 0.25
 115
 1
 MFR
 NF
 EXISTING
 FV
 COOK
 SQI

MODEL

350R

PAR

CONTROLLER/ STARTER

BY (NOTE A)

MFR NF

CONTROLLER/

CONTROLLER/

NOTES

NOTES

STARTER

PHASES | (NOTE A) | (NOTE B) | (NOTE A) | (NOTE C) | MANUFACTURER | MODEL

CONTROL MANUFACTURER MODEL

RETURN AIR SUPPLY AIR TRANSFER DUCT

HORIZONTAL

UNLESS NOTED OTHERWISE

TYP

UNO

TAG NAME

35 DEGREE DEFLECTION

PERFORATED FACE

TAG NAME | CONFIGURATION | CFM | MBH | GPM | EWT °F | LWT °F | HEAD | HP

CONTRACTOR ABBREVIATION KEY				
ABBR:	DESCRIPTION:			
E.C.	ELECTRICAL CONTRACTOR			
F.P.C.	FIRE PROTECTION CONTRACTOR			
G.C.	GENERAL CONTRACTOR			
M.C.	MECHANICAL CONTRACTOR			
P.C.	PLUMBING CONTRACTOR			

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT. ALL FLOOR ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE, BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED

MECHANICAL SHEET INDEX

MECHANICAL COVER SHEET PARTIAL FLOOR PLANS - MECHANICAL

FFE040 | COORDINATE COLOR SELECTION WITH ARCHITECT.

FFE040 COORDINATE COLOR SELECTION WITH ARCHITECT

NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO,

FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL. 1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.

MECHANICAL GENERAL NOTES:

2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE

CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR FQUIPMENT ORDERS REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE

REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS. 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING

MOUNTED DEVICES, OTHER THAN SPRINKLERS. 8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH. 9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR

10. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL PARTITION. FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS. 11. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT

SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 12. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.

CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

13. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES. 14. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS. 15. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED

MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO. FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL. 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS. EXISTING BUILDING DOCUMENTS, AND STAFF, VERIFY EXISTING CONDITIONS AND REPORT ANY
- CONFLICTS BEFORE PROCEEDING. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK, NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD
- 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS AREA OF WORK. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW
- FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE
- INSTALLED. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM.
- MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE. 9. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED

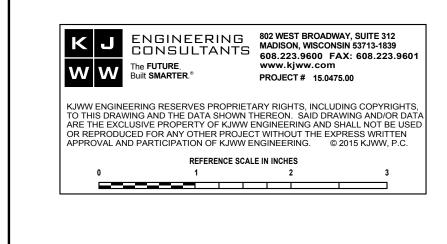
VENTILATION AND PIPING GENERAL NOTES:

ALL RADIUS ELBOWS SHALL BE TYPE RE1 WITHOUT VANES (CENTER RADIUS R/W≥1.0) EXCEPTION: RADIUS ELBOWS LABELED "RE3" SHALL BE TYPE RE3 WITH VANES (CENTER RADIUS R/W=0.6). REFER TO SPECIFICATIONS AND ELBOW CONSTRUCTION DETAILS FOR ADDITIONAL REQUIREMENTS ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.

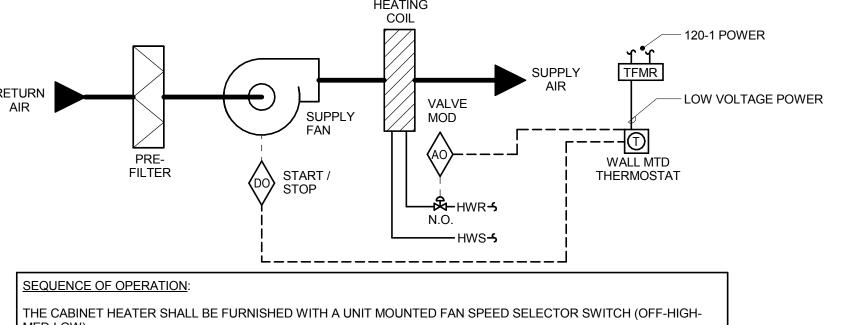
PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT. 4. EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS. AND ARE FOR REFERENCE ONLY. BALANCING CONTRACTOR SHALL USE PRE-BALANCE VALUES,

AND NOT EXISTING CFM SHOWN ON DRAWINGS. CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS

SPECIFIED FOR NEW DUCTWORK. 6. ALL PIPING SHALL BE 3/4" UNLESS OTHERWISE NOTED.



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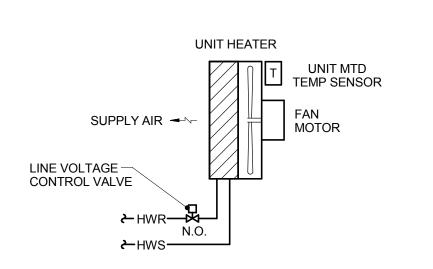


CONDITIONS.

THE THERMOSTAT SHALL MODULATE THE CONTROL VALVE AND CYCLE THE UNIT FAN TOGETHER TO MAINTAIN SETPOINT OF 70°F (ADJ.).

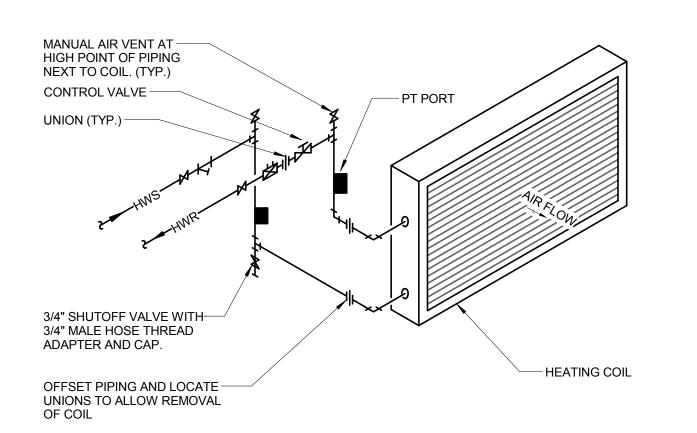
CABINET HEATER CONTROL - HYDRONIC

1. THERMOSTAT SHALL BE POWERED BY LOW VOLTAGE TRANSFORMER LOCATED IN PLUMBING CHASE PROVIDED BY M.C. 2. PROVIDE THERMOSTAT WITH HEAVY DUTY ENCLOSURE



HE THERMOSTAT SHALL MODULATE THE SOLENOID VALVE AND CYCLE THE UNIT FAN TOGETHER TO MAINTAIN A SPACE TEMPERATURE OF 70°F







FOR BALANCE VALVE SIZING REQUIREMENTS.

Monona Terrace Roof Garden Restrooms Alteration

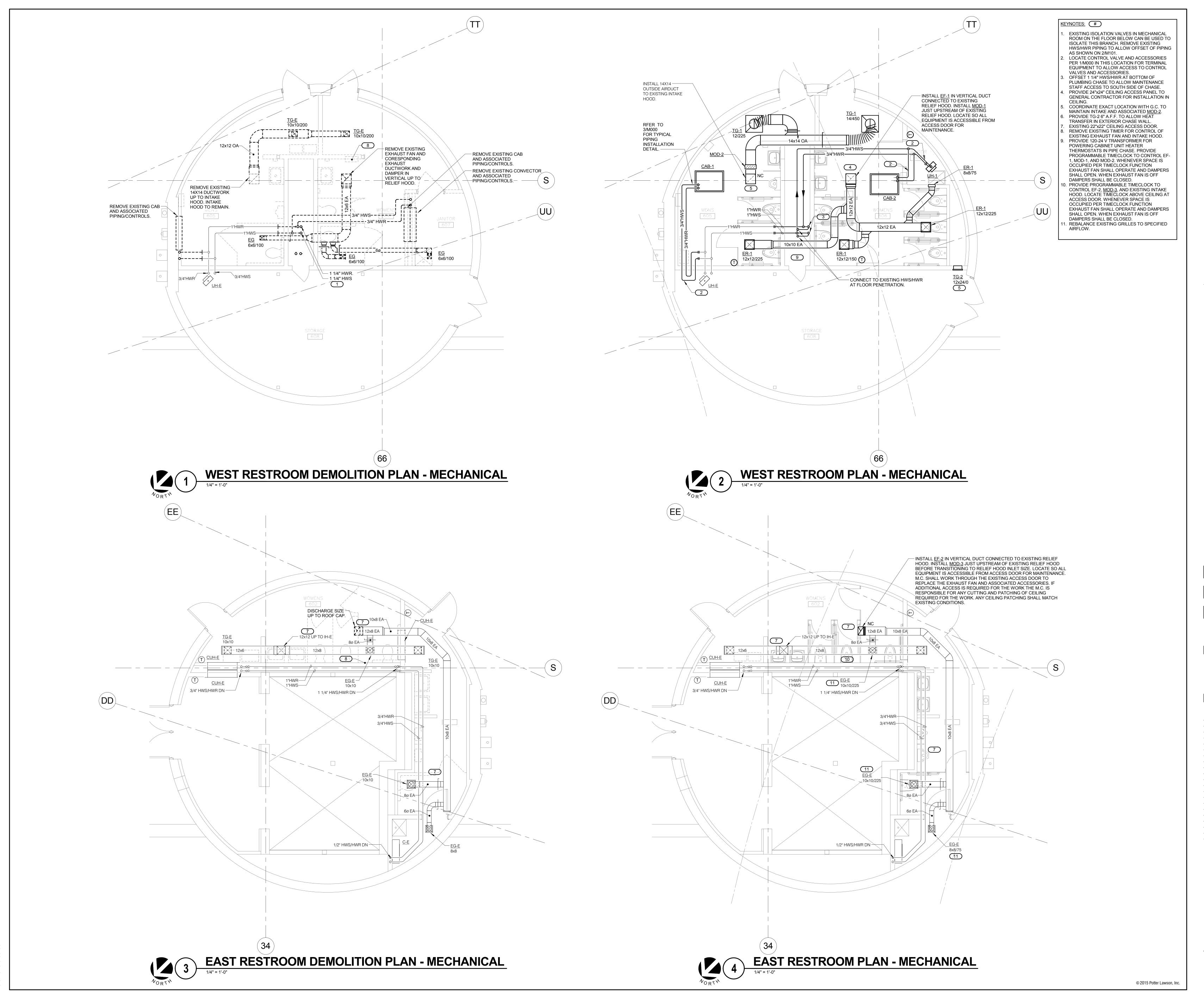
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Project # 2014.41.00

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MECHANICAL **COVER SHEET**

08/14/15 BID DOCUMENTS



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Madison, Wisconsin

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PARTIAL FLOOR PLANS -MECHANICAL

M101

LUMINAIRE SCHEDULE						
(MTG) MOUNTING:	(TYPE) LAMP TECHNOLOGY:	(L/L) LENS / LOUVER:				
RE - RECESSED	FL - FLUORESCENT	A125 ACRYLIC				
SP - SUSPENDED	CF - COMPACT FLUORESCENT	B - BLACK BAFFLE				
CL - CEILING SURFACE	HL - HALOGEN	C - CLEAR ALZAK				
WL - WALL	IN - INCANDESCENT	D - PARABOLIC				
UC - UNDER CABINET	LED - LIGHT EMITTING DIODE	F - FRESNEL				
CV - COVE	HS - HIGH PRESSURE SODIUM	G - TEMPERED GLASS				
PL - POLE	MH - METAL HALIDE	H - WALL WASHER				
FR - FLANGED RECESSED	SMH - SUPER METAL HALIDE	P - POLYCARBONATE				
O - OTHER (SEE DESCRIPTION)	PSMH - PULSE START METAL HALIDE	K - KSH12 .125" ACRYLIC				
	CMH - CERAMIC METAL HALIDE	K19 - KSH19 .156" ACRYLIC				
DOOR:	O - OTHER (SEE DESCRIPTION	L - LOW IRIDESCENT SPECULAR ALUM.				
FA - FLAT ALUMINUM	XL - EXTENDED LIFE	N - NONE				
FS - FLAT STEEL	XLP - EXTENDED LIFE & OUTPUT	R - HIGH IMPACT OR ACRYLIC				
RA - REGRESSED ALUMINUM		O - OTHER (SEE DESCRIPTION)				
RS - REGRESSED STEEL						
	(TYPE) BALLAST:	(TYPE) BALLAST:				
FINISH:	DIM07 - LINE DIMMING BALLAST	EB - ELECTRONIC BALLAST				
PAF - PAINT AFTER FABRICATION	DIM10 - 0-10V DIMMING BALLAST	EM - EMERGENCY BATTERY / BALLAST				
CSA - FINISH SELECTION BY ARCHITECT	HL - HIGH / LOW LEVEL BALLAST	DALI - DIGITAL DIMMING BALLAST				
	ML - MULTI-LEVEL SWITCHING	MV - MULTI-VOLTAGE ELECTRONIC 120V-277V				
	HP - HIGH PERFORMANCE / LBF	PRS - ELECTRONIC PROGRAM RAPID START BALLAST				

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS FOR DESIGN.

REFER TO SPECIFICATION SECTIONS LIGHTING 26 51 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ALL LAMPS FOR THIS PROJECT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
FLUORESCENT LAMP CORRELATED COLOR TEMPERATURE 3500°K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
LED LAMP COLOR RENDERING INDEX (CRI) AT OR ABOVE 85 FOR INTERIOR APPLICATIONS.

L														
				DIMEN	ISIONS			LAMPS		PS	BALLAST			APPROVED
	ITEM	DESCRIPTION	L	W	Н	DIA.	MTG	TYPE	QTY	MODEL	VOLTS	TYPE	L/L	MANUFACTURER
	F1	6" APERTURE LED OPEN DOWNLIGHT, MATTE CLEAR SELF TRIMMING REFLECTOR.0.75-1.2 SPACING RATIO.			7"	6"	RE	LED	1	31 WATT LED MAX MIN. 1300 LUMENS	277 V	ЕВ		INDY (21W) L615-35/L600PCS GOTHAM (31W) EVO 4114 CALCULITE (27W) C6L1520DLM PORTFOLIO LD615
	F2	4' NARROW CHANNEL STRIP	4'-0"	2 3/4"	2 3/4"		CV	FL	1	F32T8RS	277 V	EB		LITHONIA S132 DAY-BRITE N132 H.E. WILLIAMS 75-4-132 COLUMBIA CH4-132 METALUX SN-132

	L DEMOLITON SYMBOL LIST
SYMBOL:	DESCRIPTION:
E E	ELECTRICAL CONNECTION
≠ ⊜	DUPLEX GFI RECEPTACLE, 125V
⇒	DUPLEX RECEPTACLE, 125V
	PANELBOARD - SURFACE MOUNT
	TRANSFORMER
S	SWITCH - SINGLE POLE
s _o	SWITCH - OCCUPANCY SENSOR WALL SWITCH
<u>©</u>	OCCUPANCY SENSOR
	LINEAR LUMINAIRES
\circ	DOWNLIGHT LUMINAIRE
9	WALL BRACKET LUMINAIRE
	INDUSTRIAL LUMINAIRE
\triangle	WALL SCONCE LUMINAIRE
SD	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
F	FIRE ALARM MANUAL PULL STATION
A#	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
MM	MONITOR MODULE
(TS)	TAMPER SWITCH

	ELECTRICAL SYMBOL LIST									
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:							
	<u>ECONN</u>	26 05 33	ELECTRICAL CONNECTION							
¥	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V							
s _o	SW-OC-P-0	26 27 26	SWITCH - OCCUPANCY SENSOR WALL SWITCH							
© _U	SW-OC-U	26 27 26	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE							
	<u>F#</u>	26 51 00	LINEAR LUMINAIRES							
0	<u>F#</u>	26 51 00	DOWNLIGHT LUMINAIRE							

	ELECTRICAL ABBREVIATION KEY
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
С	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

ELECTRICAL GENERAL NOTES:

1. ##-### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.

LUMINAIRE KEY:

F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATIO

LUMINAIRE a = SWITCH DESIGNATION
NL = SUBSCRIPT (IF APPLICABLE)

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

DEVICE KEY:

DEVICE

A = MOUNTING (IF APPLICABLE)

1 = CIRCUIT NUMBER

1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION.

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH

- C MOUNT AT TO CENTERLINE ABOV

 H MOUNT ORIENTED HORIZONTALLY
- MOUNT IN CASEWORK
- MOUNT IN MODULAR FURNITURE MOUNT IN SURFACE RACEWAY

ELECTRICAL INSTALLATION NOTES:

- 1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATIONS DETAIL ON THE ADA STANDARD IN THE ADA STANDARD IN THE ADA STANDARD IN T
- THIS PAGE FOR ADDITIONAL INFORMATION.

 2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH
- PHASE.
 3. CIRCUITS SERVING EMERGENCY AND EXIT LUMINAIRES WILL BE RUN IN A SEPARATE
- RACEWAY FROM ALL OTHER CIRCUITS.
 4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE
- DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

 5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR
- (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
 6. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO SPECIFICATIONS FOR ADDITIONAL
- INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.

 7. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY
- BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.

 8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION)
- EXCEPT WHERE OTHERWISE NOTED.

 9. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE
- NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.

 10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL
- IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL
 BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.

 11. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT
 LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS.
 PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST
- RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.

 12. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL
- MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.

 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL
- OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- 14. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS.
 CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- 15. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.



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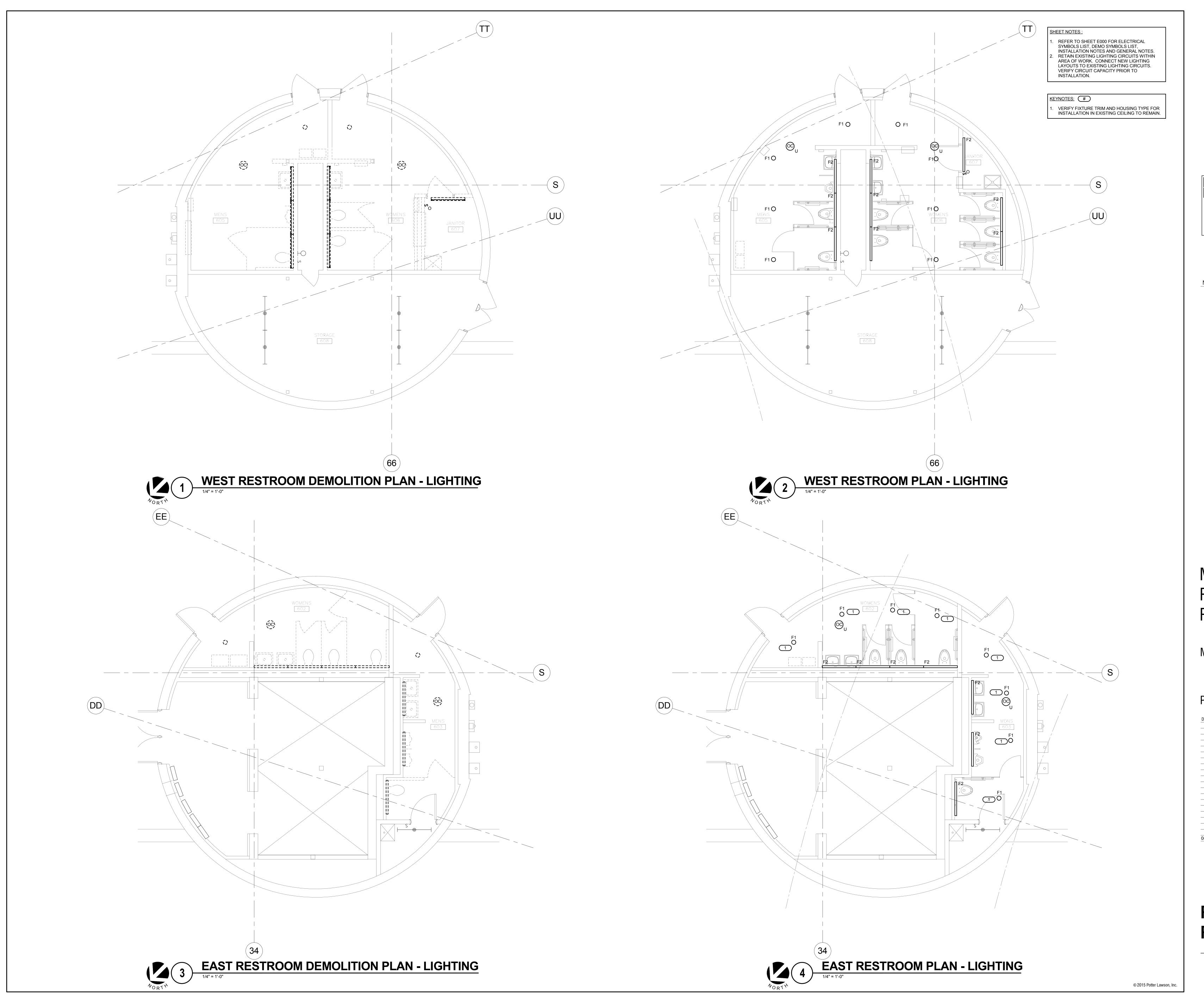
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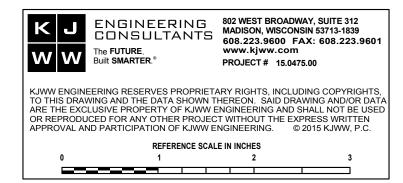
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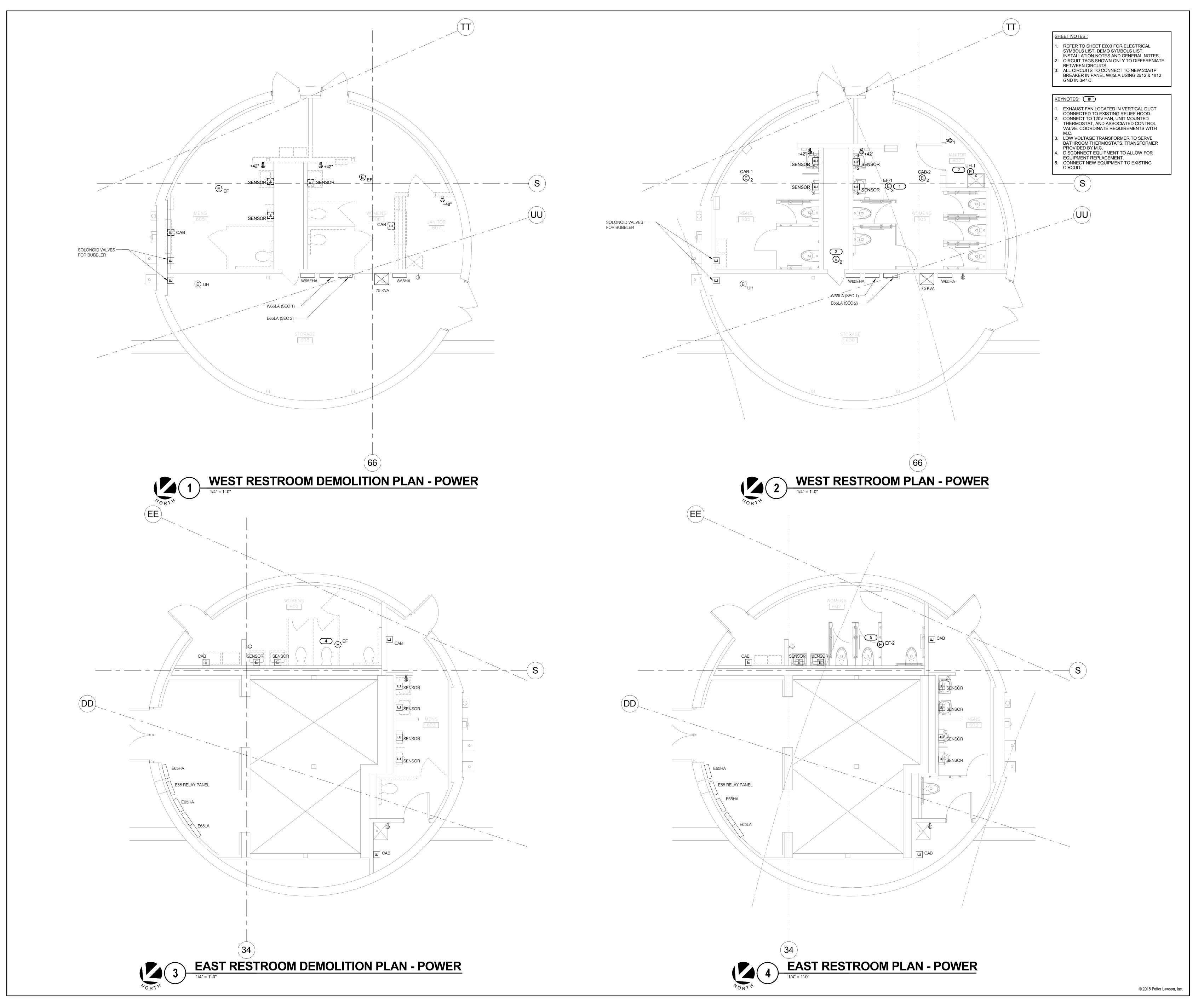
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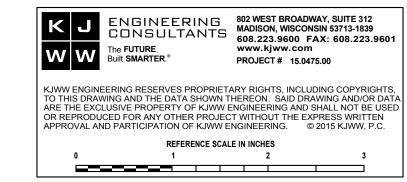
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PARTIAL FLOOR PLANS - LIGHTING

EL101







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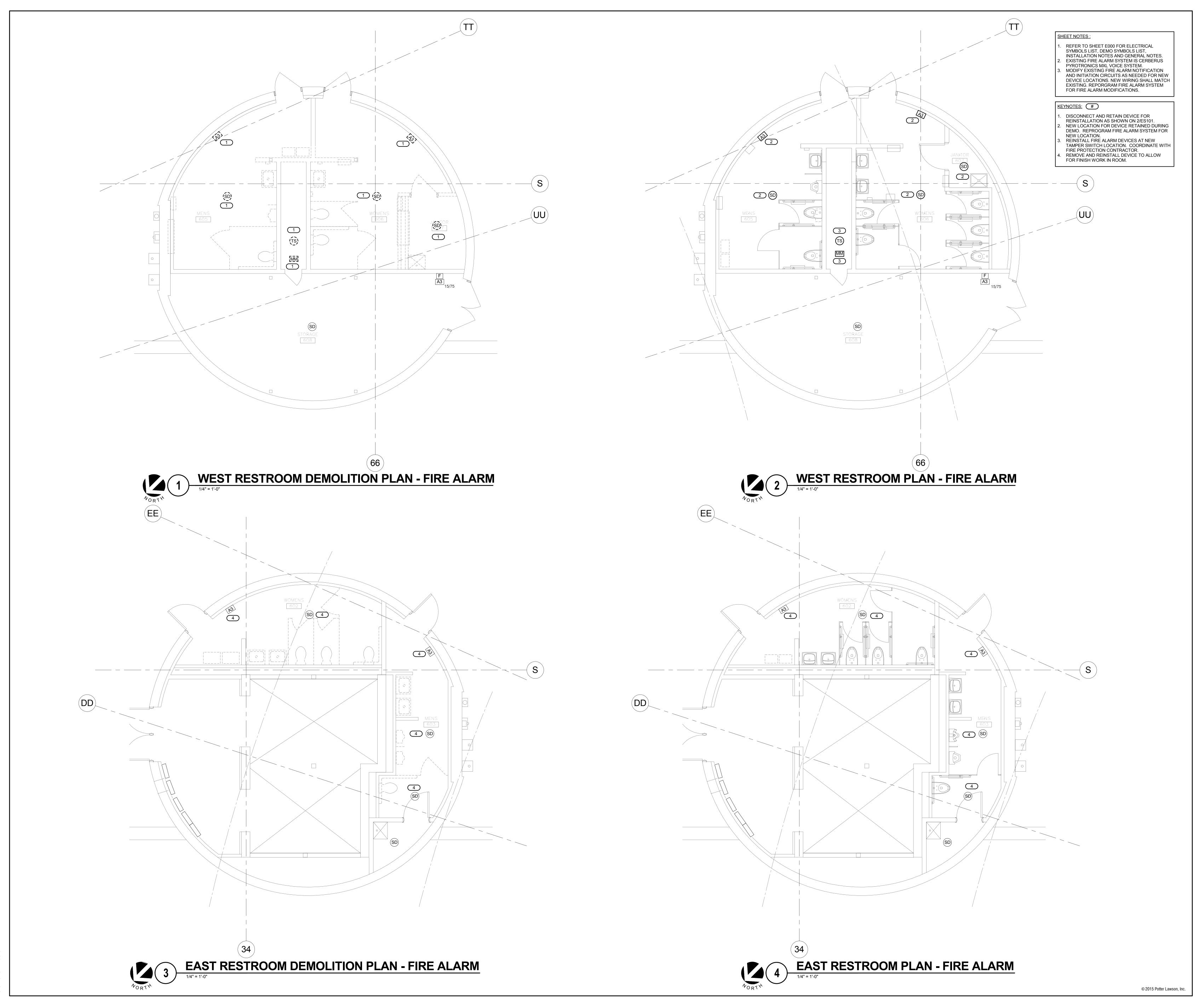
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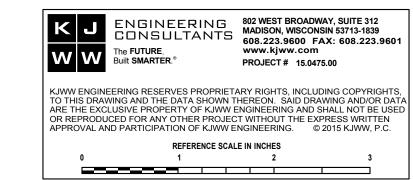
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PARTIAL FLOOR PLANS - POWER





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PARTIAL FLOOR PLANS - FIRE ALARM

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