

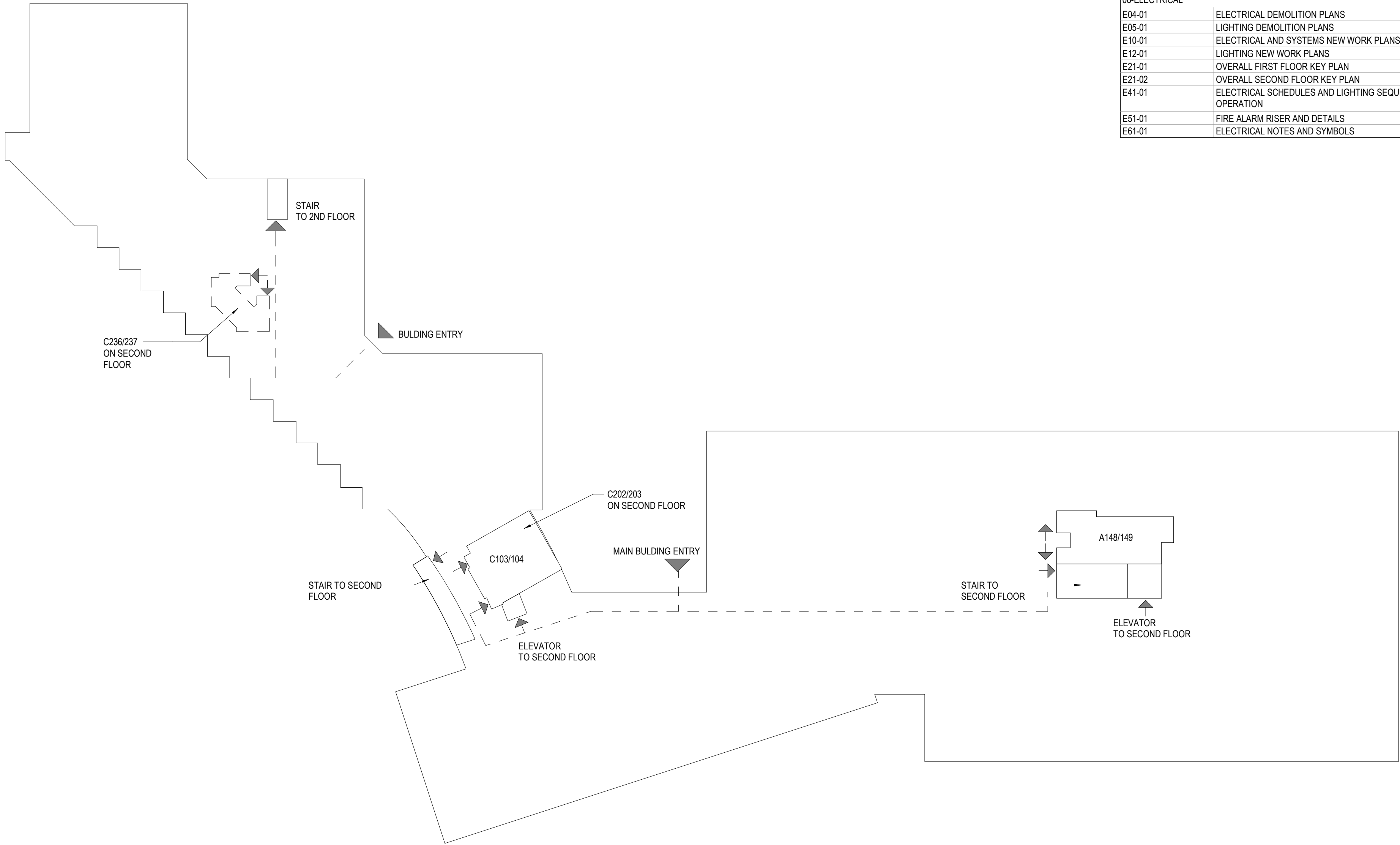
RESTROOM RENOVATIONS

7701 LINCOLN AVE,
SKOKIE, IL
60077

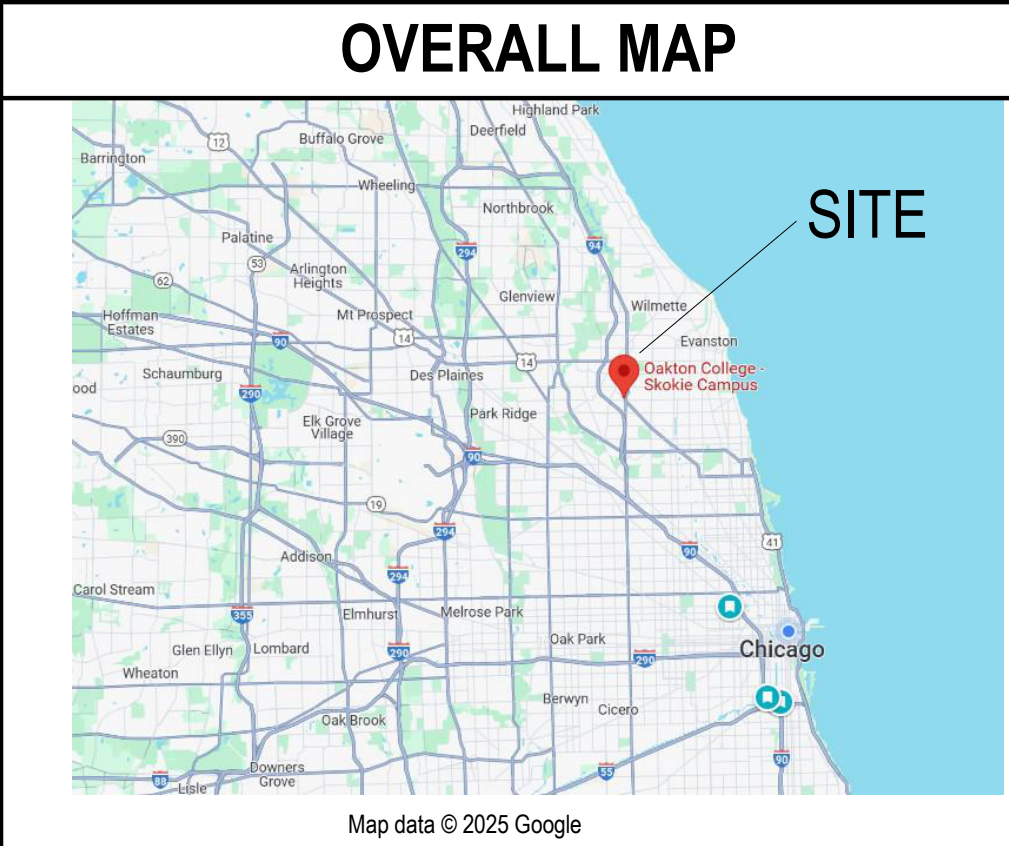
JUNE 9 ,2025
PW PROJECT #021075.001

ISSUE FOR PERMIT DOCUMENTS VOLUME # 1 & 2

OWNER	ARCHITECT	MECH., PLUMBING, ELEC., LOW VOLTAGE, & FIRE PROTECTION ENGINEERING
OAKTON COLLEGE 1600 E. GOLF RD. DES PLAINES, IL 60016	PERKINS AND WILL 410 N. MICHIGAN AVE. STE. 1600 CHICAGO, IL 60611 DESIGN FIRM #: 184000338-0001	MECHANICAL SERVICES ASSOCIATES, CORP. 111 S. VIRGINIA ST. CRYSTAL LAKE, IL 60014 DESIGN FIRM #: 184001504-0002



SHEET INDEX RESTROOM RENOVATIONS 2025		
SHEET NUMBER	SHEET NAME	ISSUE FOR BID
01-GENERAL G00-00	COVER	●
04-ARCHITECTURAL		
A00-01	REFERENCE SHEET	●
A04-01	DEMOLITION PLAN LEVELS 01 AND 02	●
A43-01	ENLARGED TOILET PLANS AND ELEVATIONS	●
A44-01	REFLECTED CEILING PLAN LEVELS 01 AND 02	●
A52-01	INTERIOR DETAILS & SCHEDULES	●
05-FIRE PROTECTION		
FP10-02	FIRE PROTECTIONS PLANS	●
06-PLUMBING		
P04-01	PLUMBING DEMOLITION PLANS	●
P10-01	PLUMBING PLANS	●
P20-00	PLUMBING GENERAL NOTES AND SCHEDULES	●
07-MECHANICAL		
M04-01	MECHANICAL DEMOLITION PLANS	●
M10-01	MECHANICAL PLANS	●
M20-00	GENERAL MECHANICAL NOTES	●
M20-01	MECHANICAL SCHEDULE AND DETAILS	●
08-ELECTRICAL		
E04-01	ELECTRICAL DEMOLITION PLANS	●
E05-01	LIGHTING DEMOLITION PLANS	●
E10-01	ELECTRICAL AND SYSTEMS NEW WORK PLANS	●
E12-01	LIGHTING NEW WORK PLANS	●
E21-01	OVERALL FIRST FLOOR KEY PLAN	●
E21-02	OVERALL SECOND FLOOR KEY PLAN	●
E41-01	ELECTRICAL SCHEDULES AND LIGHTING SEQUENCE OF OPERATION	●
E51-01	FIRE ALARM RISER AND DETAILS	●
E51-01	ELECTRICAL NOTES AND SYMBOLS	●



PROJECT DESCRIPTION
Restroom Renovations including new lavatories, toilet partitions, new ceilings, lighting and some door replacement.
APPLICABLE CODES
BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE EXISTING BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE ENERGY CODE: 2021 INTERNATIONAL ENERGY CODE ACCESSIBILITY CODE: 2010 ADA DESIGN GUIDELINES FIRE PREVENTION CODE: 2021 INTERNATIONAL FIRE CODE MECHANICAL CODE: 2021 INTERNATIONAL MECHANICAL CODE ELECTRICAL CODE: 2021 NATIONAL ELECTRIC CODE PLUMBING CODE: 2021 INTERNATIONAL BUILDING CODE
OCCUPANCY CLASSIFICATION
ASSEMBLY EDUCATIONAL CLASSROOMS BUSINESS
CONSTRUCTION TYPE
EXISTING CONSTRUCTION IS STRUCTURAL STEEL FRAME WITH METAL DECKING WITH CONCRETE TOPPING.

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PROJECT
RESTROOM
RENOVATIONS

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Oakton
College
OAKTON COLLEGE
SKOKIE

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KEY PLAN

ISSUE CHART

1	ISSUE FOR BID	9 JUNE 2025
DATE	DATE	DATE
Job Number	021075.001	TITLE

COVER

SHEET NUMBER

G00-00

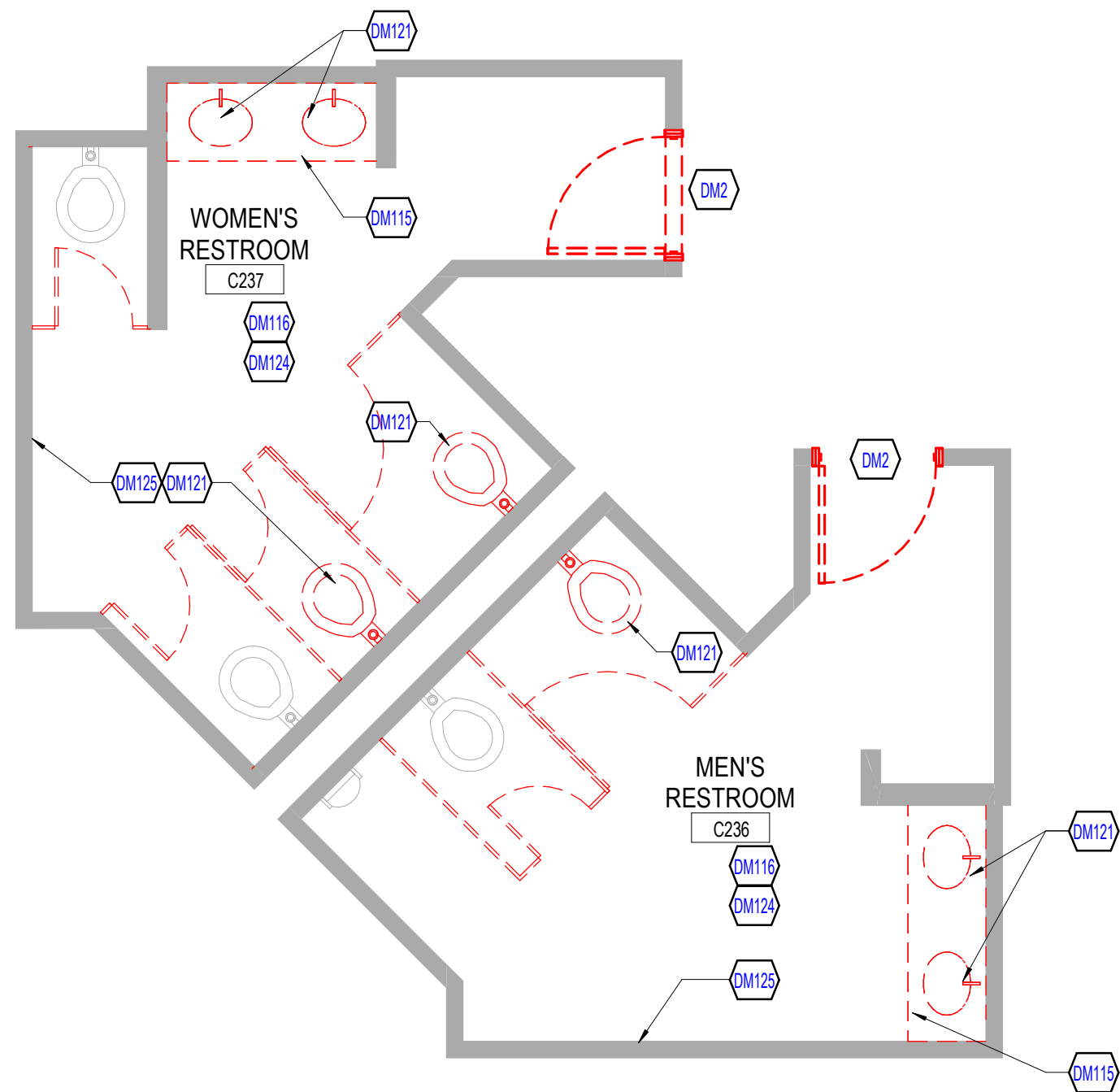
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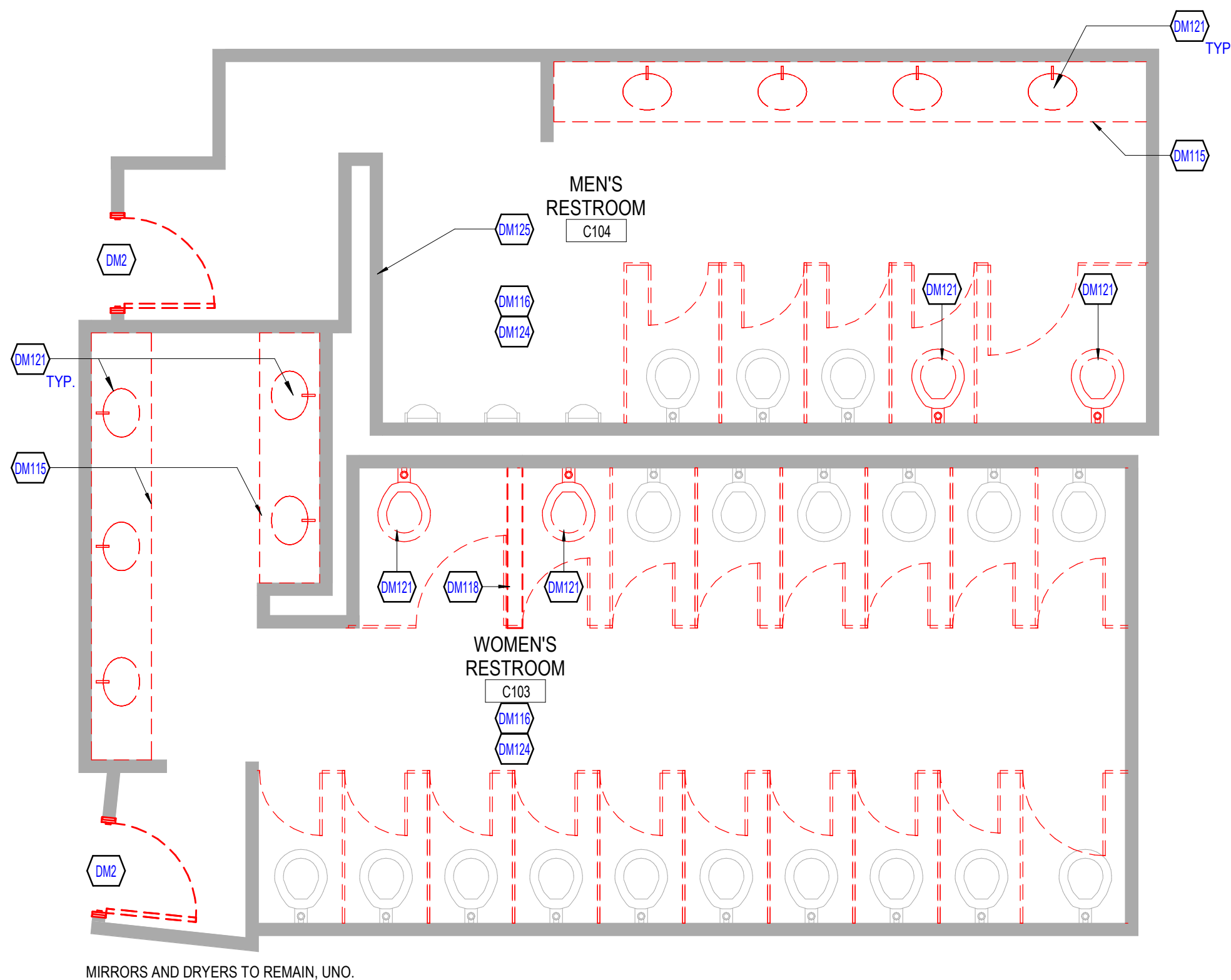
1 CONSTRUCTION ACCESS PLAN
SCALE 1/32" = 1'-0"



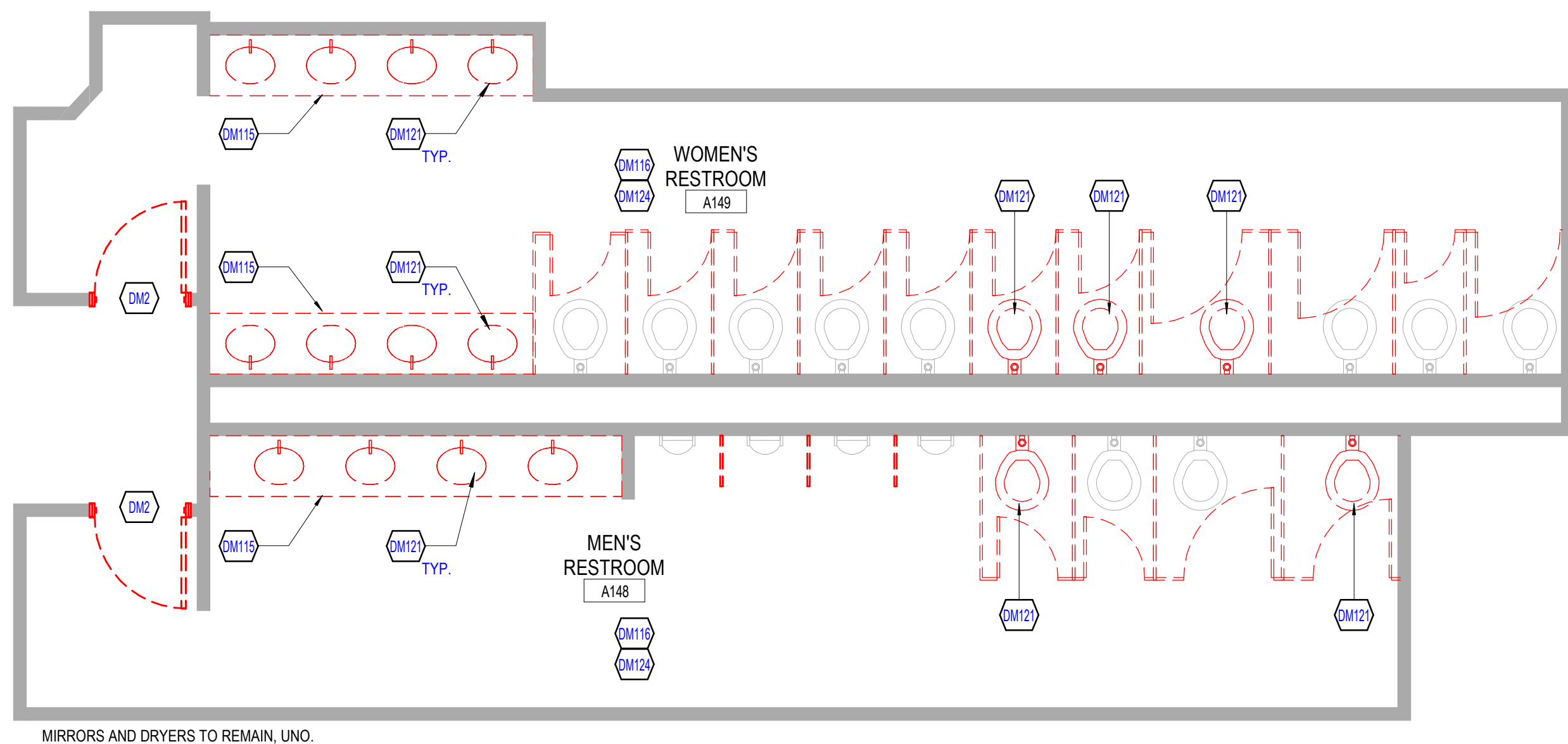
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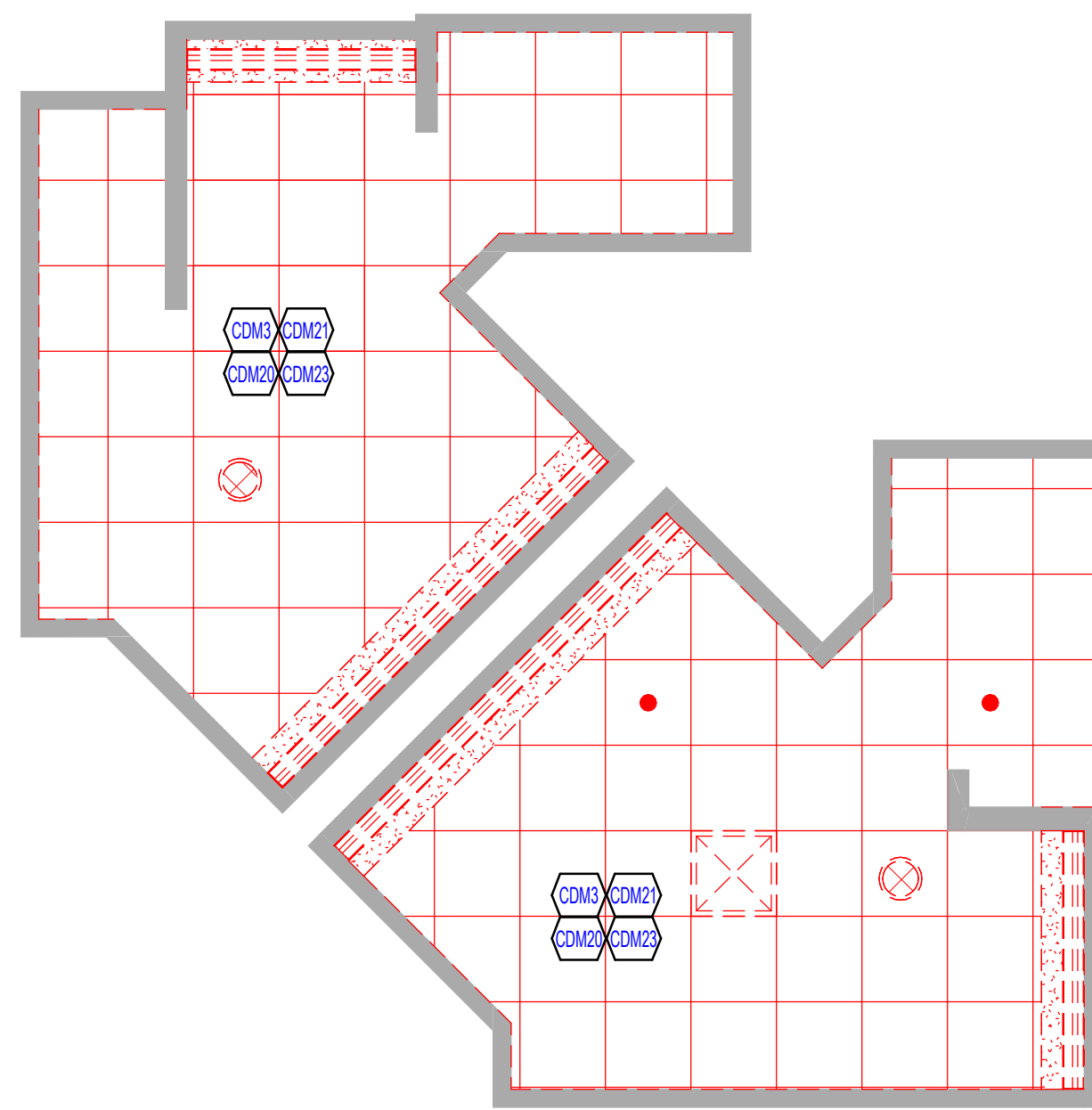
5 DEMOLITION PLAN LEVEL 02 - C236/237
1/4" = 1'-0" |



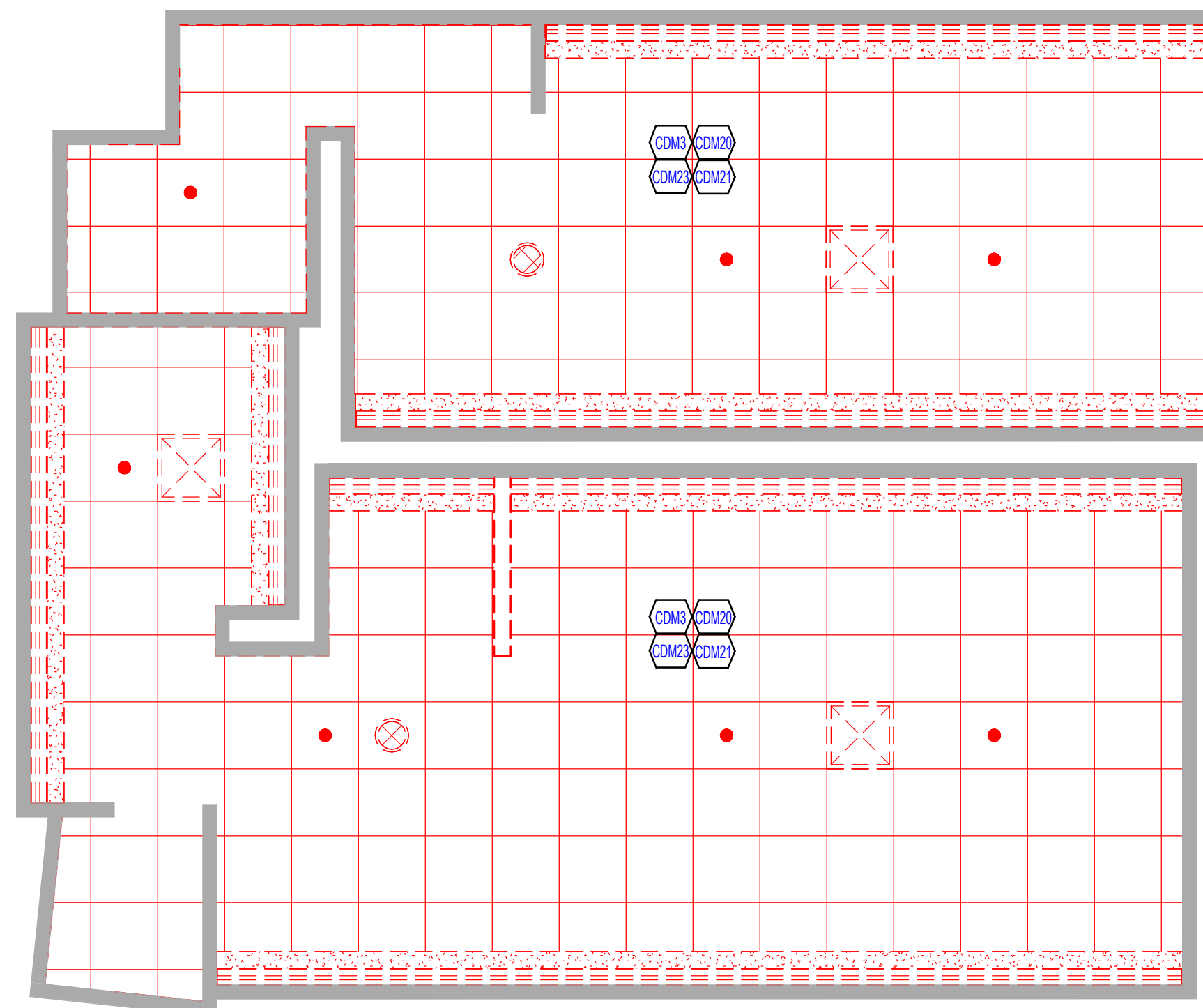
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SCALE 1/4" = 1'-0"



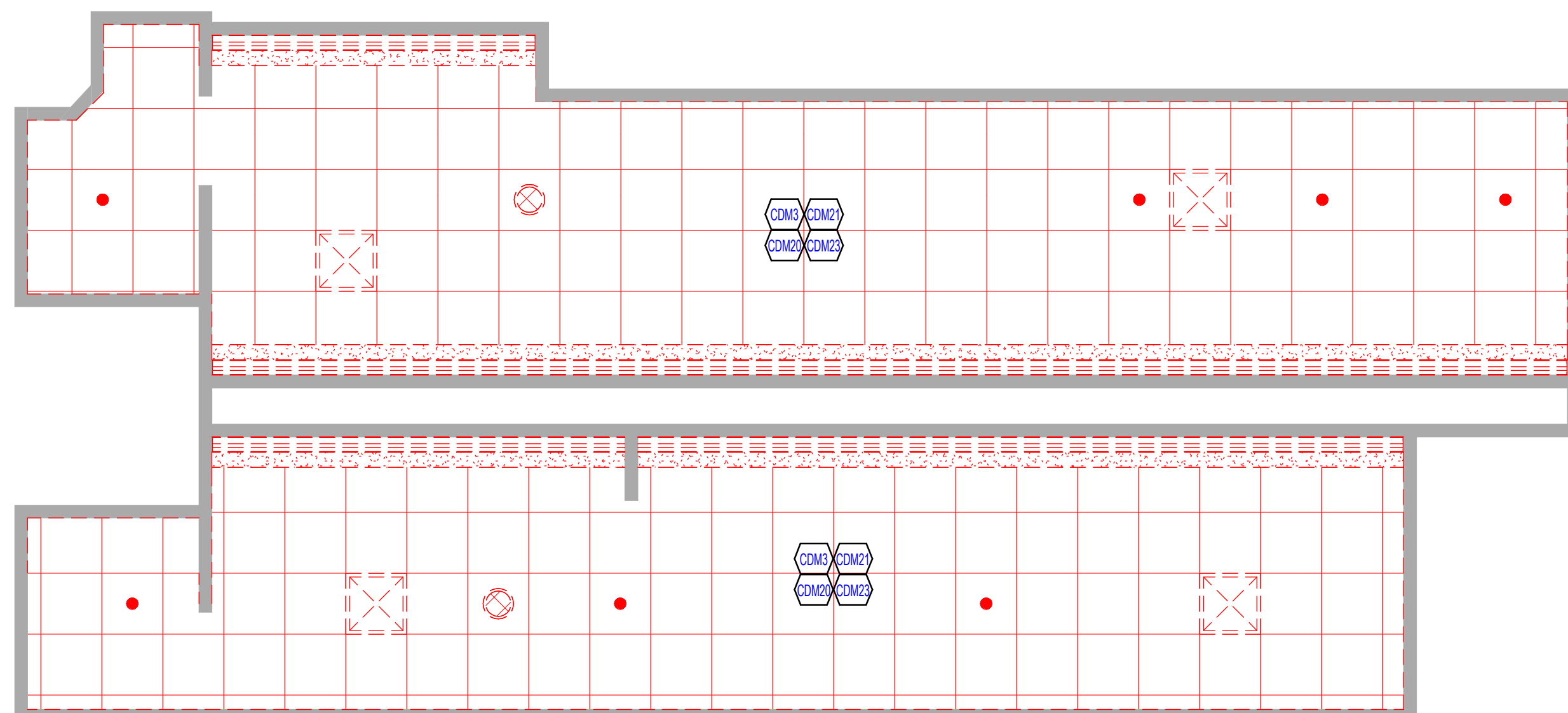
1 DEMOLITION PLAN LEVEL 01 - A148/149
SCALE 1/4" = 1'-0"



6 REFLECTED CEILING DEMOLITION PLAN
LEVEL 02 - C236/237
1/4" = 1'-0" |



4 REFLECTED CEILING DEMOLITION PLAN LEVEL 01 C103/104 AND LEVEL 02 C202/203
SCALE 1/4" = 1'-0"



3 REFLECTED CEILING DEMOLITION PLAN
LEVEL 01 - A148/149
SCALE 1/4" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD SURVEY THE SITE OF PROPOSED WORK TO DETERMINE THE EXTENT AND NATURE OF THE DEMOLITION WORK. REFER TO ALL CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND SCOPE OF DEMOLITION WORK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
2. PROTECTION SHALL BE PROVIDED FOR BASE BUILDING CONSTRUCTION AND ALL EXISTING CONSTRUCTION TO REMAIN.
3. THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDUIT, WIRING, JUNCTION BOXES, ELECTRICAL COMMUNICATION, AND LIFE SAFETY DEVICES WITH THE LANDLORD AND OWNER PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. ALL EXISTING ITEMS TO REMAIN SHALL BE PROPERLY MARKED AT THE PROJECT SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD AND OWNER.
4. COORDINATE WITH OWNER TO VERIFY THAT OWNER HAS REMOVED ALL ITEMS SCHEDULED OR PLANNED TO BE REMOVED BY OWNER.
5. ALL EMPTY CONDUITS TO BE REMOVED.
6. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO OWNER OR ARCHITECT IMMEDIATELY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.

LEGEND

- NOT IN CONTRACT
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING ACOUSTICAL TILE CEILING SYSTEM TO BE DEMOLISHED
- FIXTURE TO REMAIN
- FIXTURE TO BE DEMOLISHED
- SCOPE OF WORK PRICED AS ALT#1

DEMOLITION PLAN KEYNOTES

- <<< Indicates Sheet Keynote on Plan
- CDM3 REMOVE ALL LIGHT FIXTURES THIS ROOM. RETURN TO OWNER UPON REQUEST; PREPARE FOR NEW FIXTURES
- CDM20 DEMOLISH CEILING
- CDM21 REMOVE ALL SPRINKLER HEADS AND PREPARE FOR NEW CONCEALED HEAD THIS ROOM
- CDM23 REMOVE ALL EXISTING DIFFUSERS THIS ROOM
- DM2 REMOVE DOOR, FRAME, & HARDWARE; RETURN DOOR & HARDWARE TO OWNER AS REQUESTED
- DM115 DEMOLISH COUNTERTOP IN ITS ENTIRETY
- DM116 DEMOLISH ALL TOILET PARTITIONS AND PARTITION DOORS THIS ROOM
- DM118 DEMOLISH PARTITION
- DM121 DEMOLISH PLUMBING FIXTURES; CUT CAP & SEAL ALL UTILITIES BACK TO SOURCE; REFER TO PLUMBING DRAWINGS
- DM124 DEMOLISH ALL WALL-MOUNTED ACCESSORIES AND TOILET ACCESSORIES THIS ROOM. SALVAGE AND RETURN TO OWNER AS DIRECTED
- DM125 DEMOLISH MIRROR IN ITS ENTIRETY PATCH AND REPAIR WALL, PAINT MATCH EXIS

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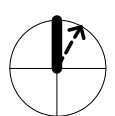
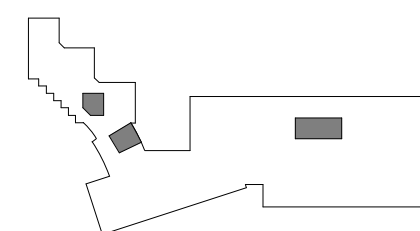
PROJECT RESTROOM RENOVATIONS

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KEY PLAN



ISSUE CHART

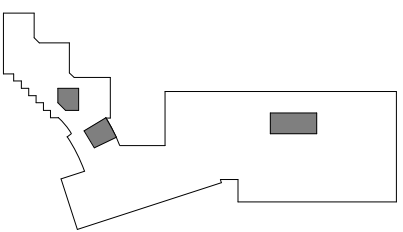
1	ISSUE FOR BID	9 JUNE 2025
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DEMOLITION PLAN LEVELS 01 AND 02

SHEET NUMBER

A04-01

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1	ISSUE FOR BID	9 JUNE 2025
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FLOOR PLAN
GENERAL NOTES

1. DOOR DIMENSIONS ARE TO EDGE OF DOOR LEAF UNLESS NOTED OTHERWISE.
2. FOR SWINGING DOORS, THE HINGE SIDE OF THE DOOR JAMB SHALL BE LOCATED 4" FROM THE ADJACENT PERPENDICULAR WALL, UNLESS NOTED OTHERWISE.

FLOOR PLAN LEGEND

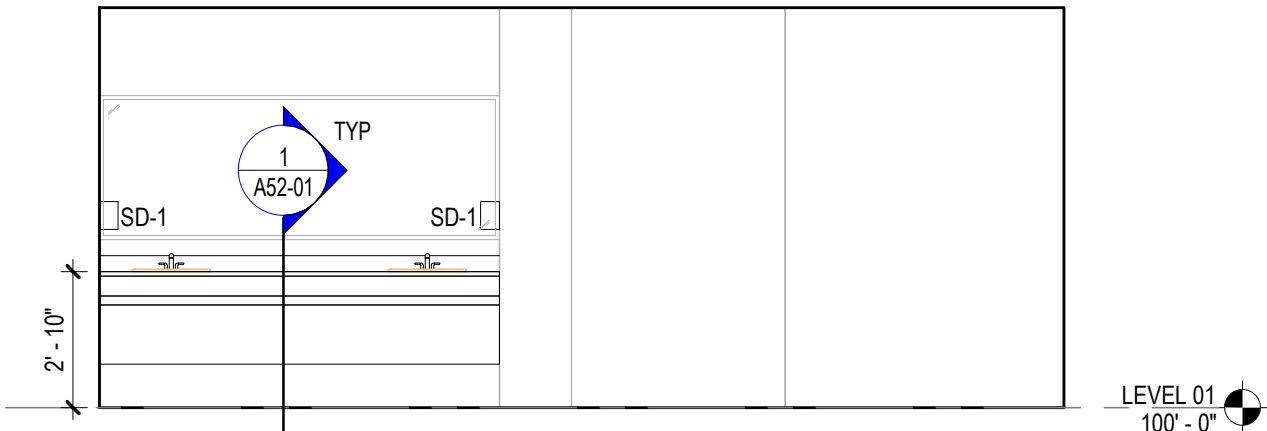
- DENOTES NOT IN CONTRACT
- EXISTING CONSTRUCTION TO REMAIN
- NEW PARTITION
- DOOR TAG (NEW DOOR)
- EXISTING DOOR

INTERIOR FINISH PLAN
GENERAL NOTES

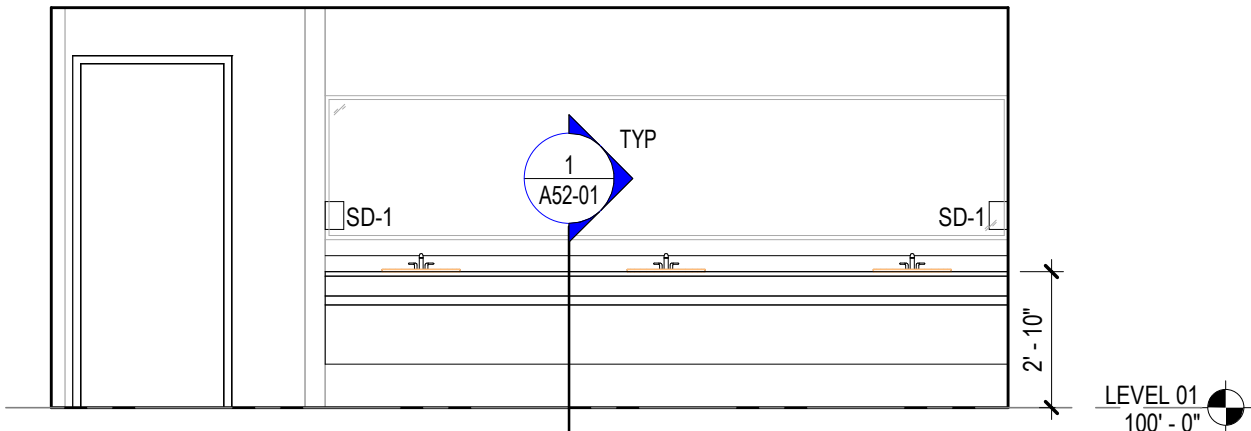
1. REFER TO INTERIOR FINISH LEGEND IN A50 SERIES FOR INFORMATION.
2. SEE ELEVATIONS FOR ADDITIONAL FINISH INFORMATION.

PAINT:

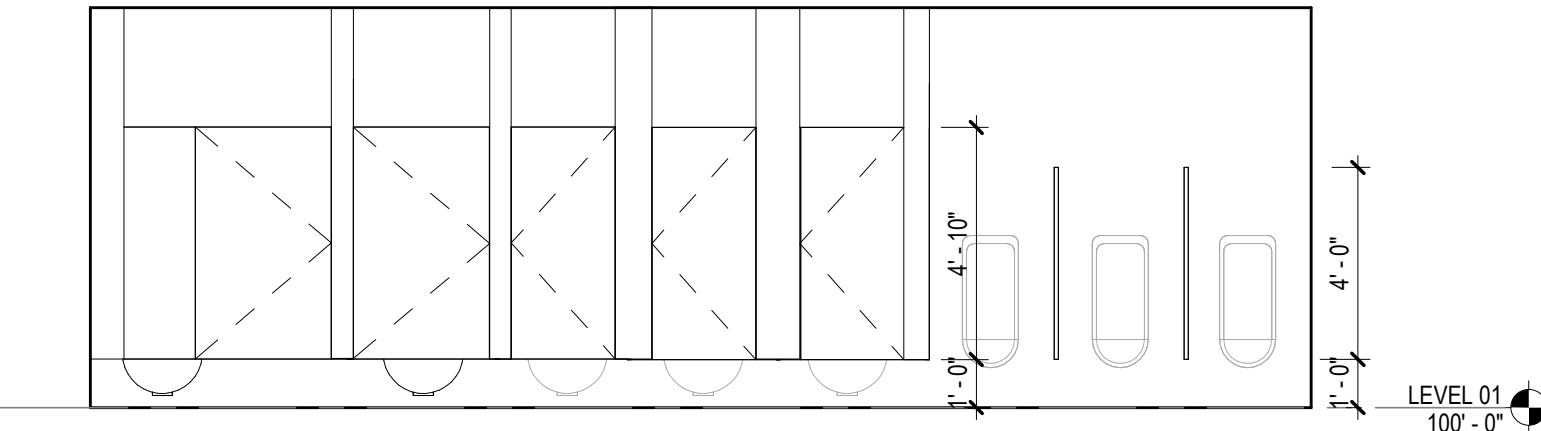
- DOORS SHALL BE PAINTED PNT1.
- HOLLOW METAL FRAMES SHALL BE PAINTED PNT2.



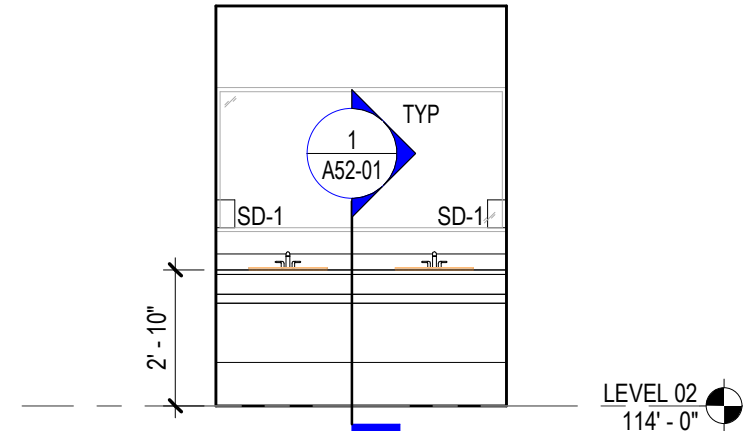
18 ELEVATION
SCALE 1/4" = 1'-0"



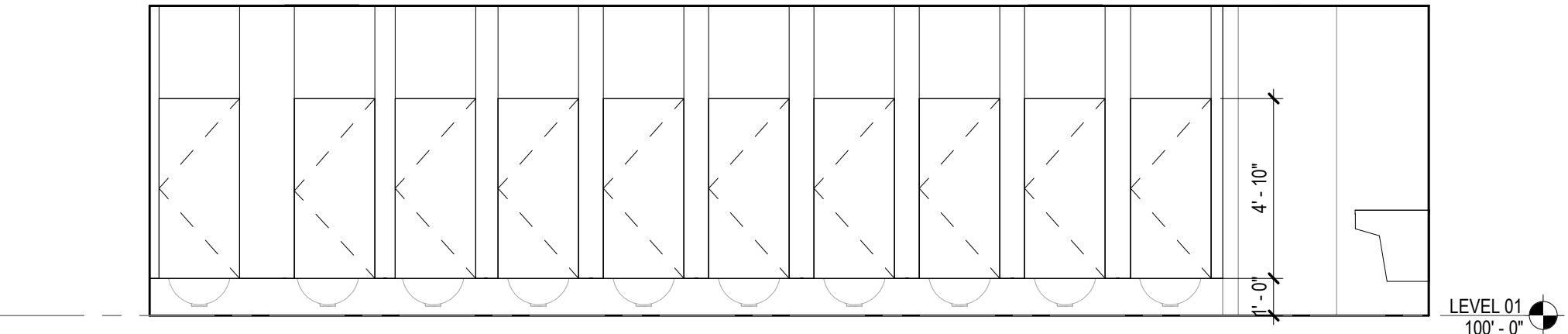
17 ELEVATION
SCALE 1/4" = 1'-0"



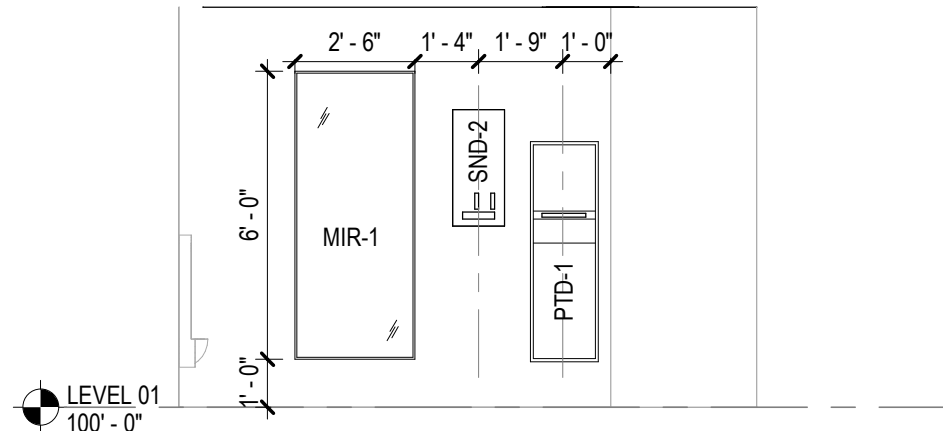
15 ELEVATION
SCALE 1/4" = 1'-0"



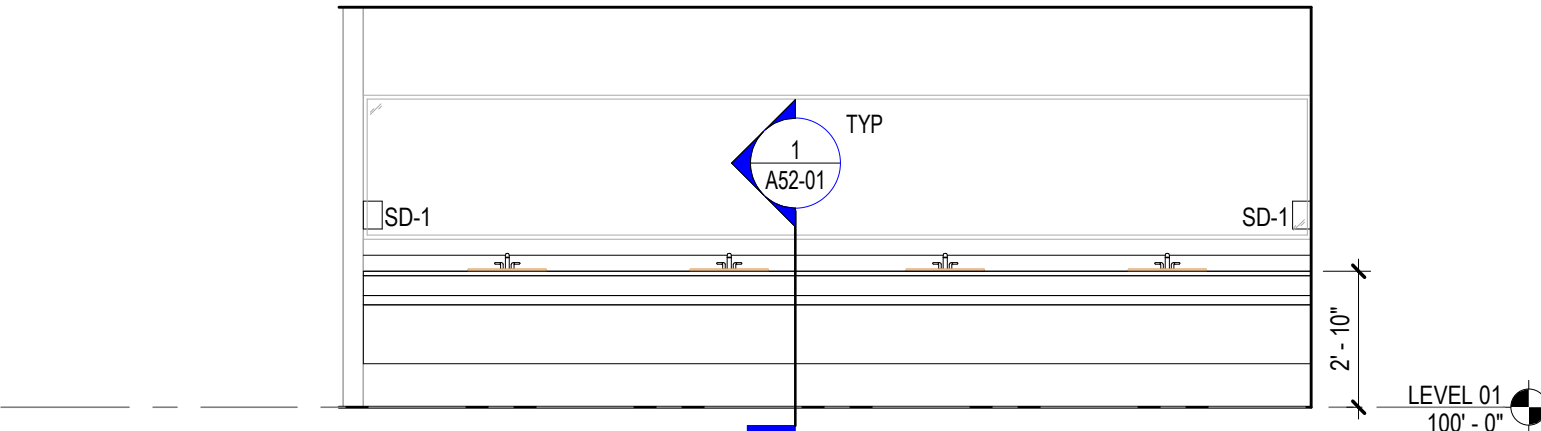
14 ELEVATION
SCALE 1/4" = 1'-0"



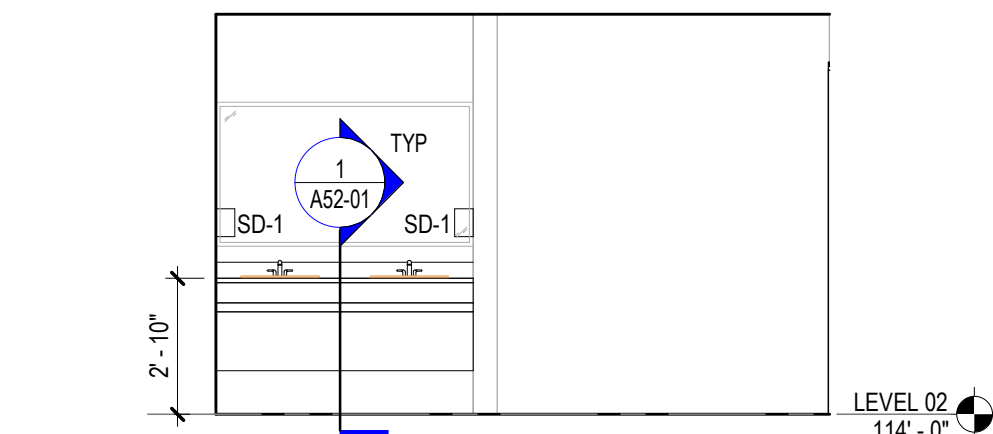
13 ELEVATION
SCALE 1/4" = 1'-0"



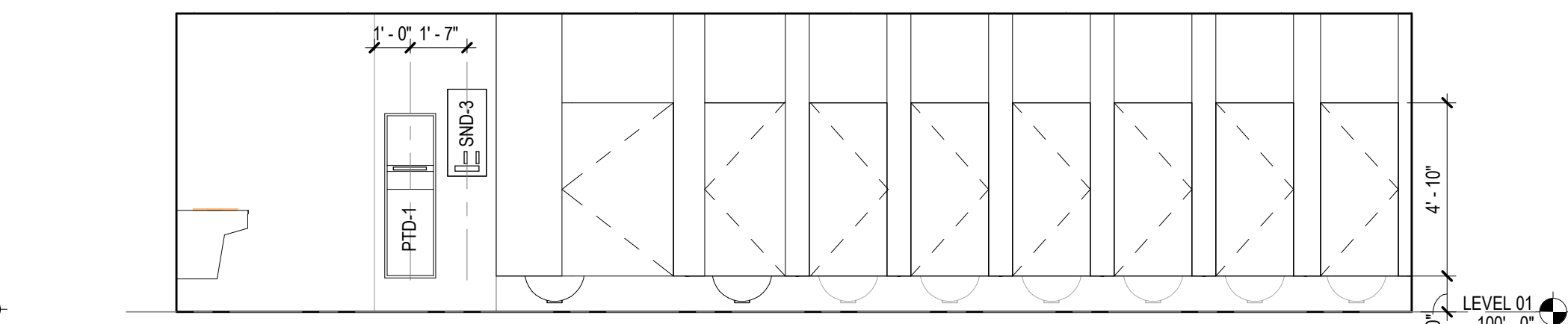
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SCALE 1/4" = 1'-0"



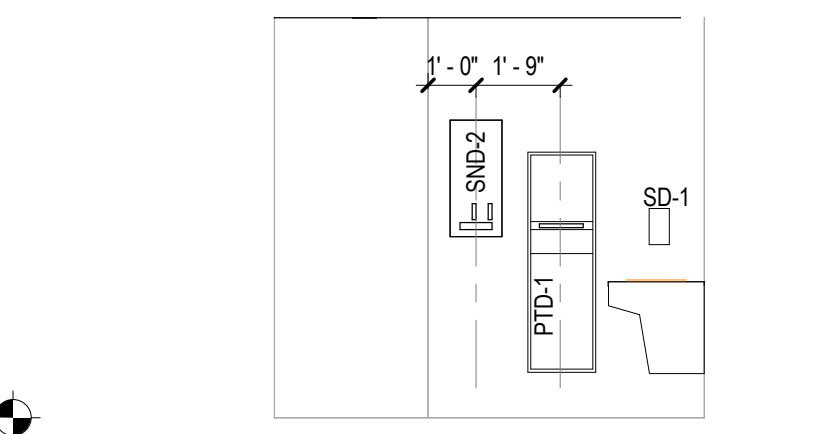
11 ELEVATION
SCALE 1/4" = 1'-0"



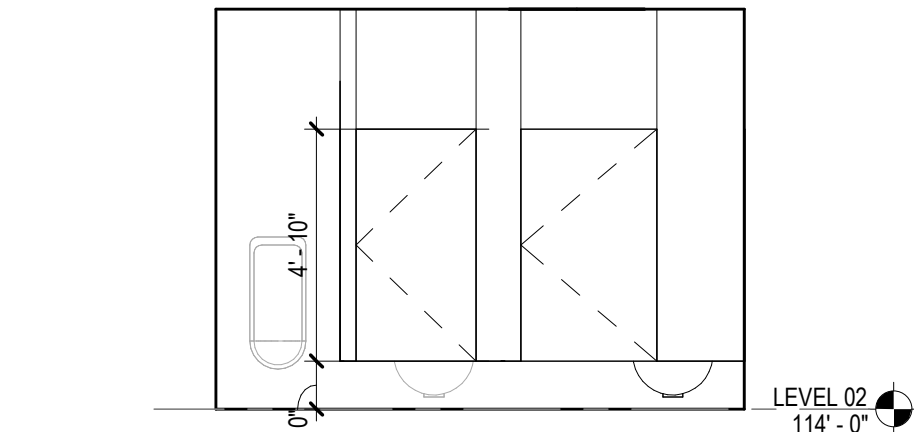
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SCALE 1/4" = 1'-0"



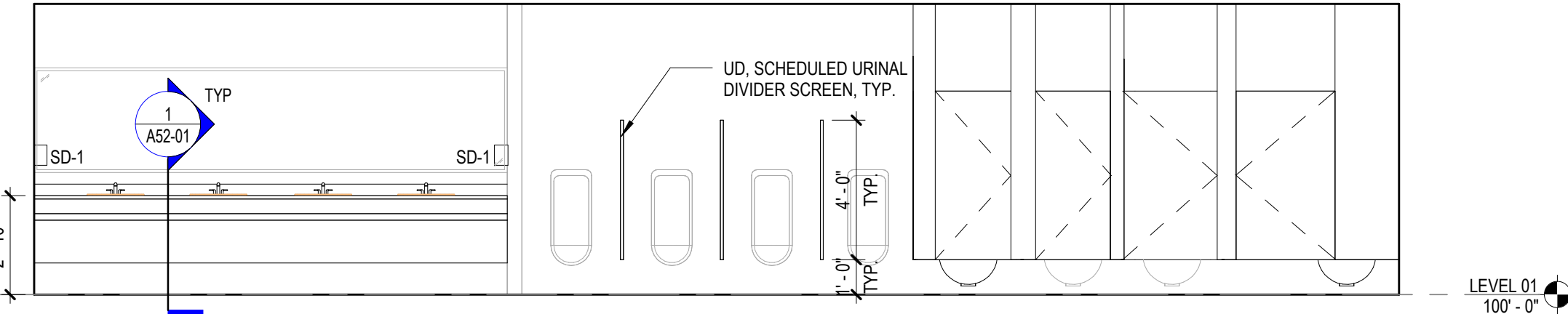
9 ELEVATION
SCALE 1/4" = 1'-0"



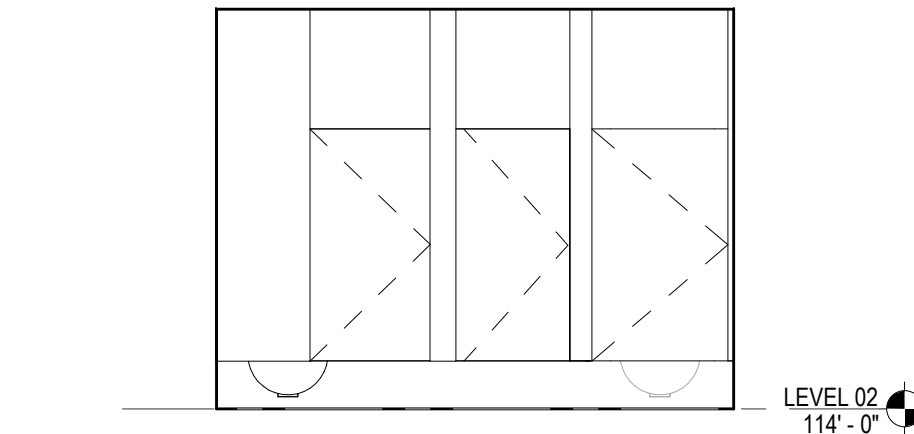
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SCALE 1/4" = 1'-0"



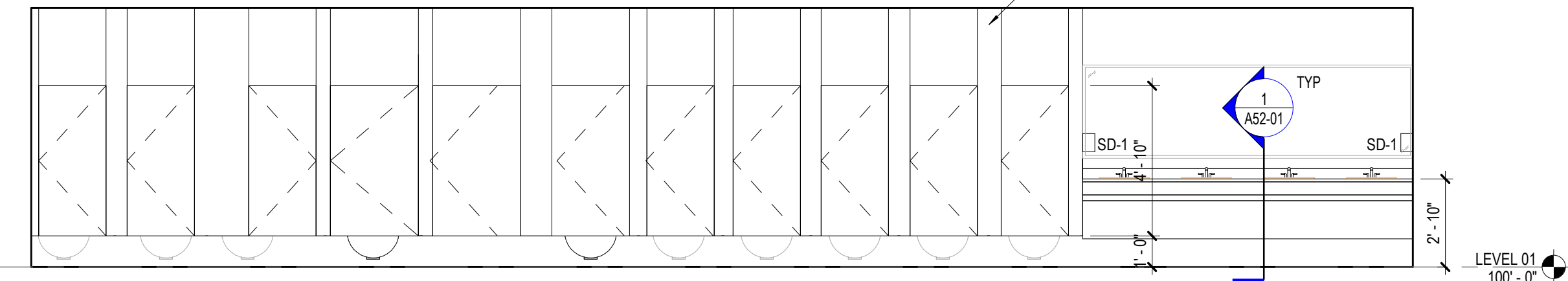
7 ELEVATION
SCALE 1/4" = 1'-0"



6 ELEVATION
SCALE 1/4" = 1'-0"



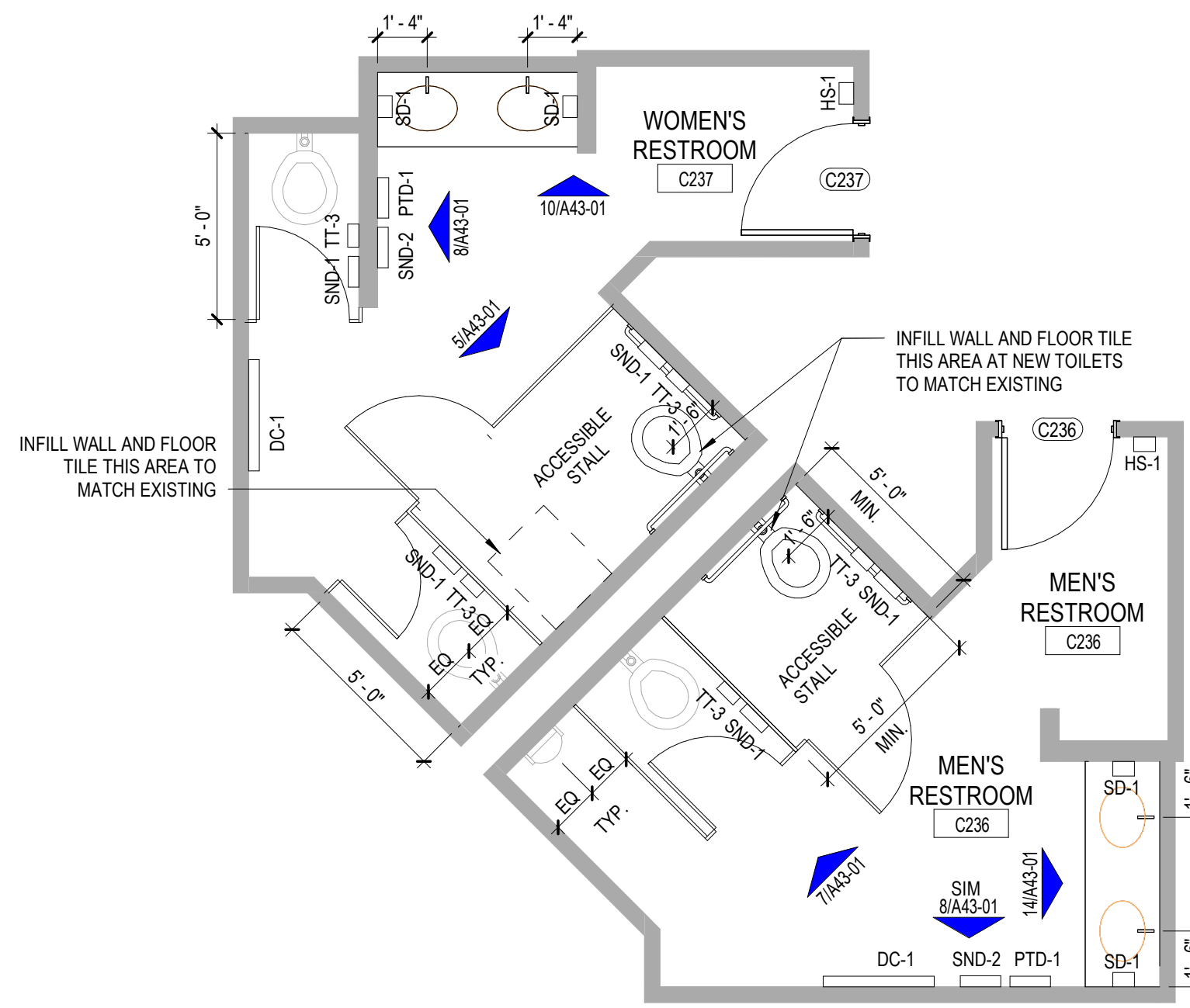
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SCALE 1/4" = 1'-0"



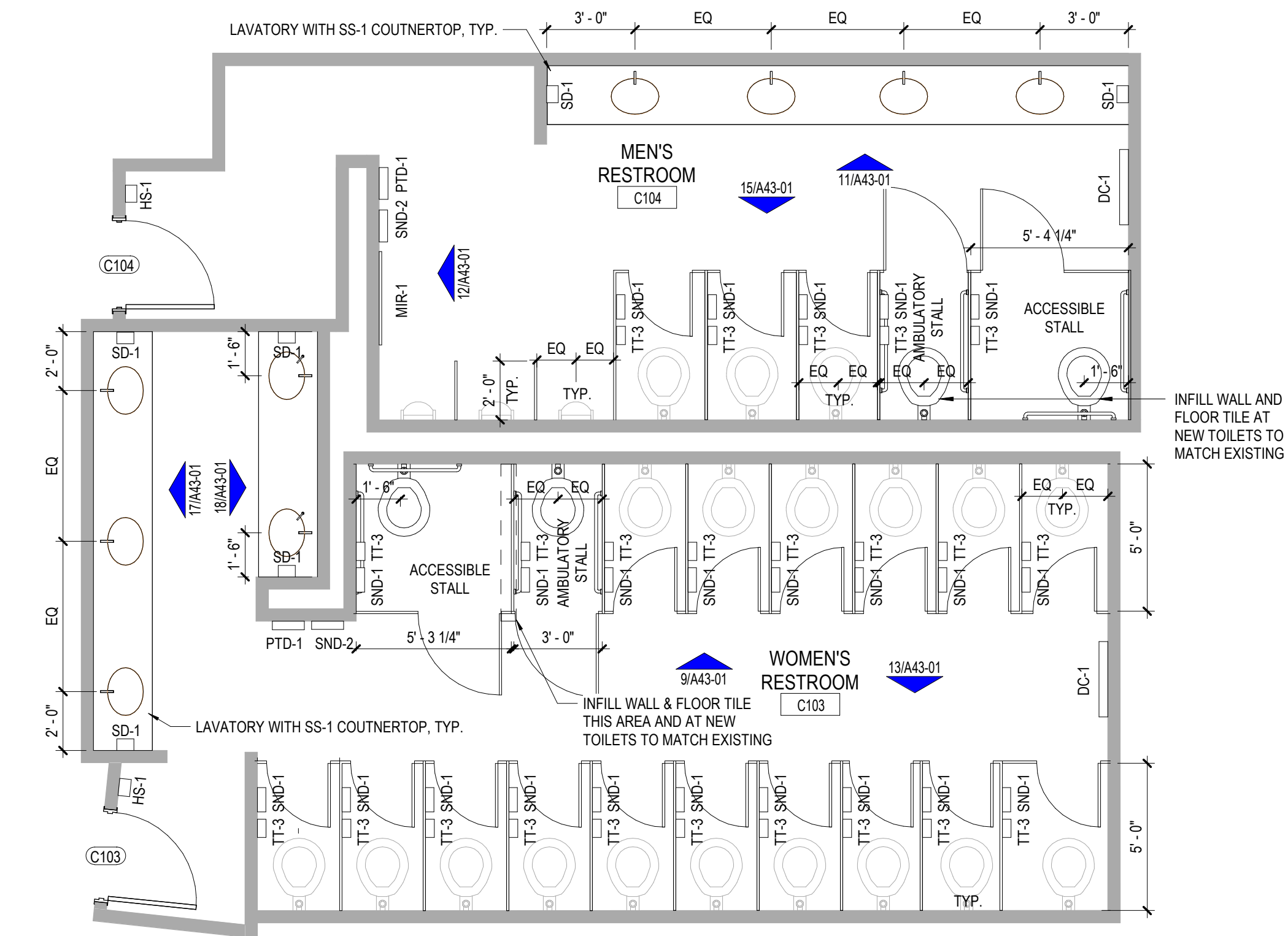
4 ELEVATION
SCALE 1/4" = 1'-0"

REF. A00-01 FOR TYPICAL FIXTURE MOUNTING HEIGHTS

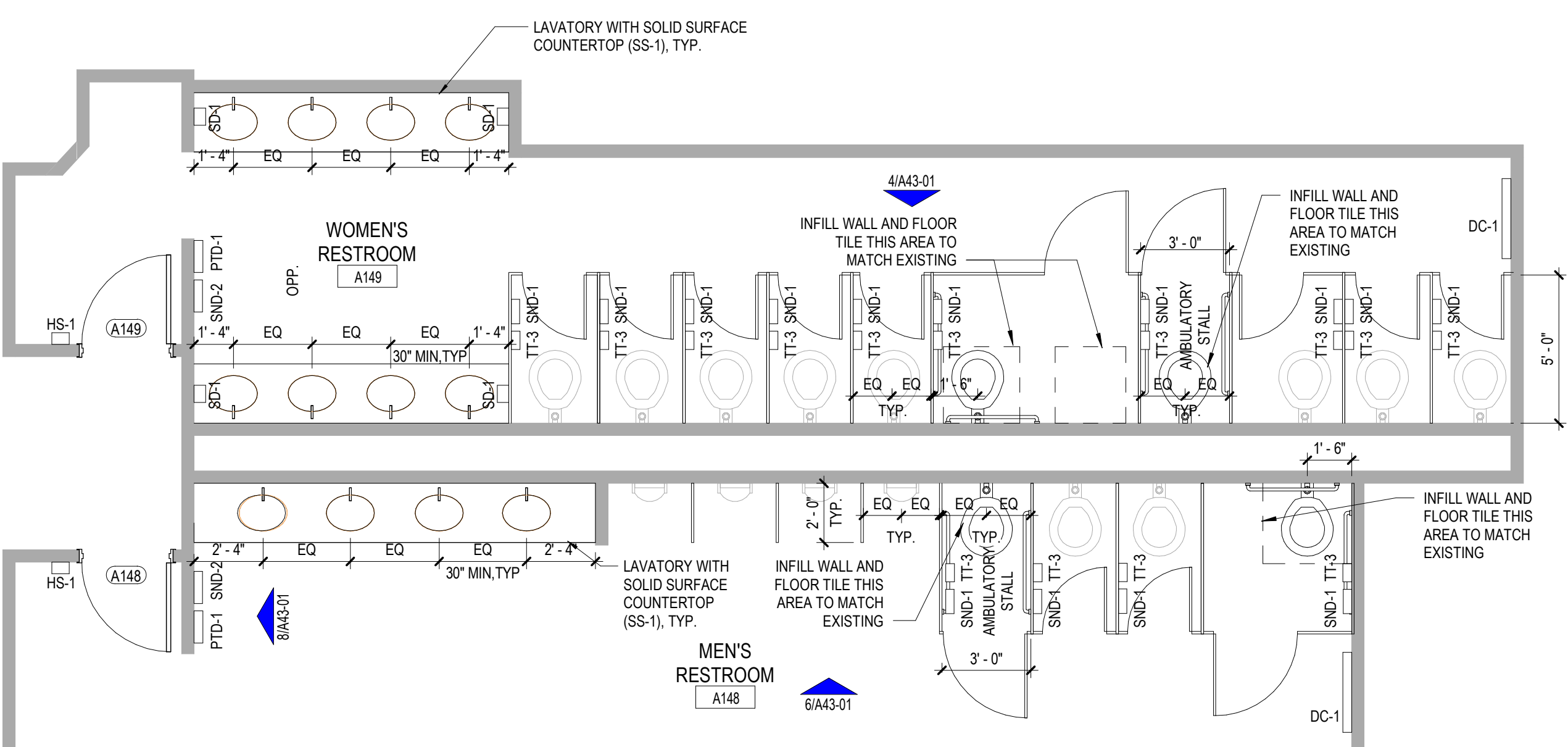
3 ENLARGED PLAN - C236/237
SCALE 1/4" = 1'-0"



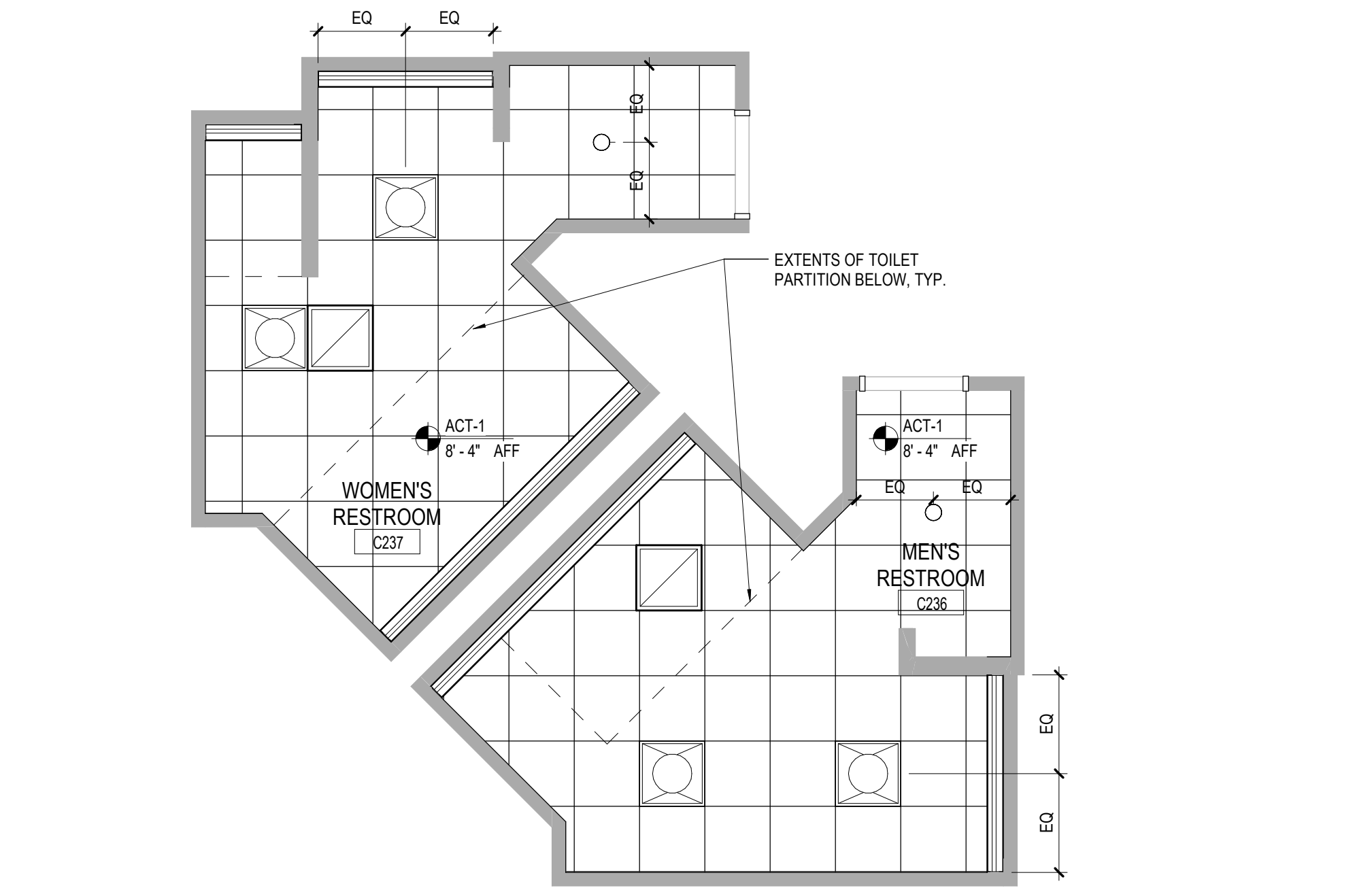
2 ENLARGED PLAN - C103/104 AND C202/203
SCALE 1/4" = 1'-0"



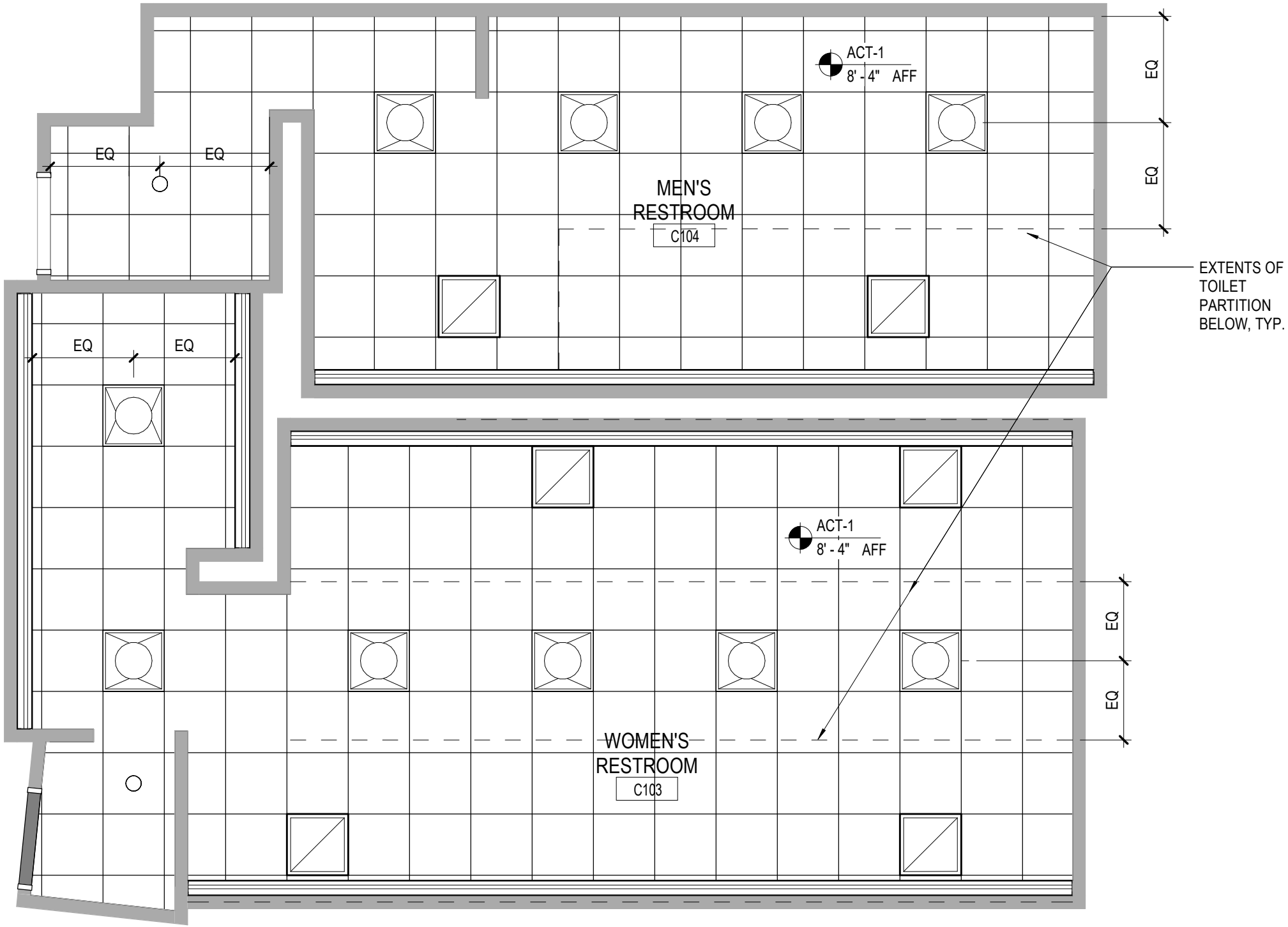
1 ENLARGED PLAN - A148/149
SCALE 1/4" = 1'-0"



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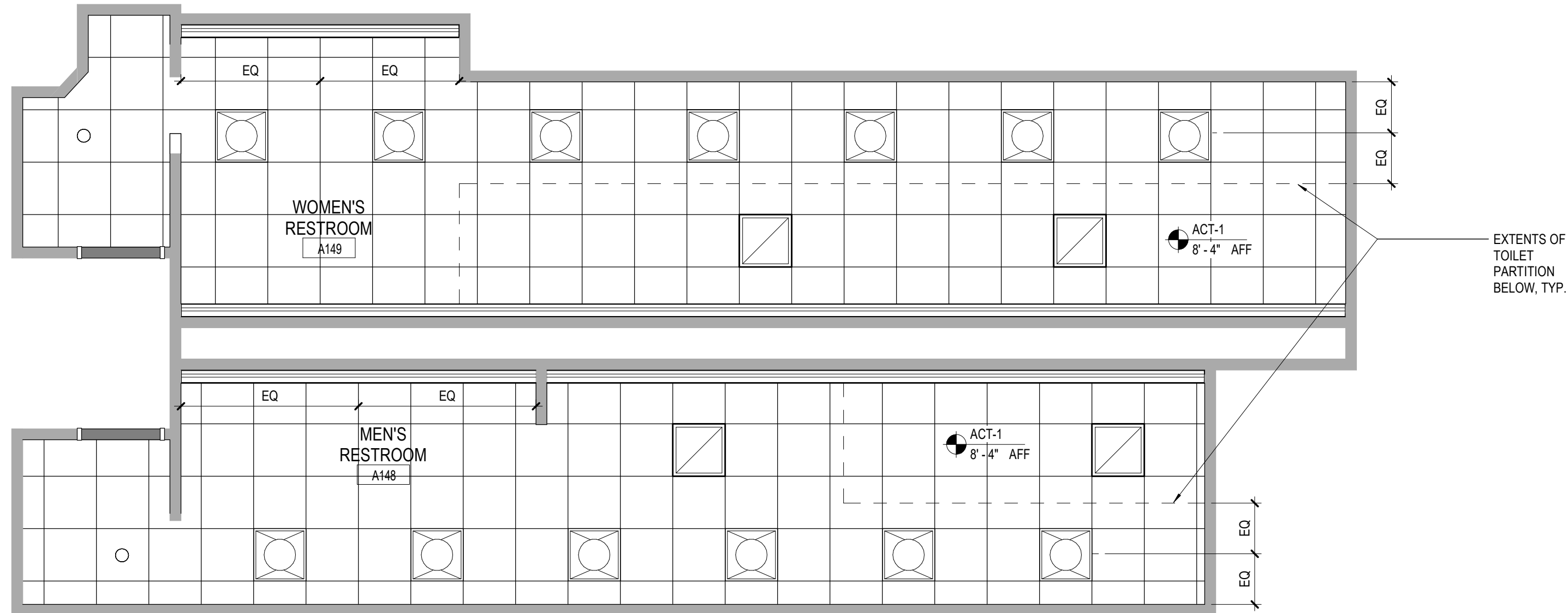


3 REFLECTED CEILING PLAN LEVEL 02 RCP - C236/237
SCALE 1/4" = 1'-0"



2 REFLECTED CEILING PLAN LEVEL 01 RCP - C103/104
SCALE 1/4" = 1'-0"

C202/203 SIMILAR



1 REFLECTED CEILING PLAN LEVEL 01 RCP - A148/149
SCALE 1/4" = 1'-0"

REFLECTED CEILING PLAN
GENERAL NOTES

1.

CENTER FIXTURES, DEVICES AND OTHER ELEMENTS IN ACOUSTIC PANEL(S) IN BOTH DIRECTIONS, UNLESS OTHERWISE NOTED.

2.

LIGHTING FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE, UNLESS NOTED OTHERWISE.

3.

CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLE, CONDUIT, LIGHTS, MECHANICAL EQUIPMENT OR OTHER CONSTRUCTION. SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.

4.

DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK.

LEGEND

NOT IN CONTRACT

ACOUSTICAL PANEL CEILING

CEILING MATERIAL CODE
(REFER TO FINISH SCHEDULES)

CEILING HEIGHT

RECESSED DOWNLIGHT

2X2 LIGHT FIXTURE

PERIMETER COVE LIGHTING

2X2 RETURN REGISTER

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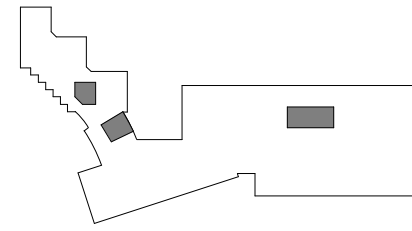
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KEY PLAN



ISSUE CHART

1	ISSUE FOR BID	9 JUNE 2025
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REFLECTED CEILING
PLAN LEVELS 01 AND 02

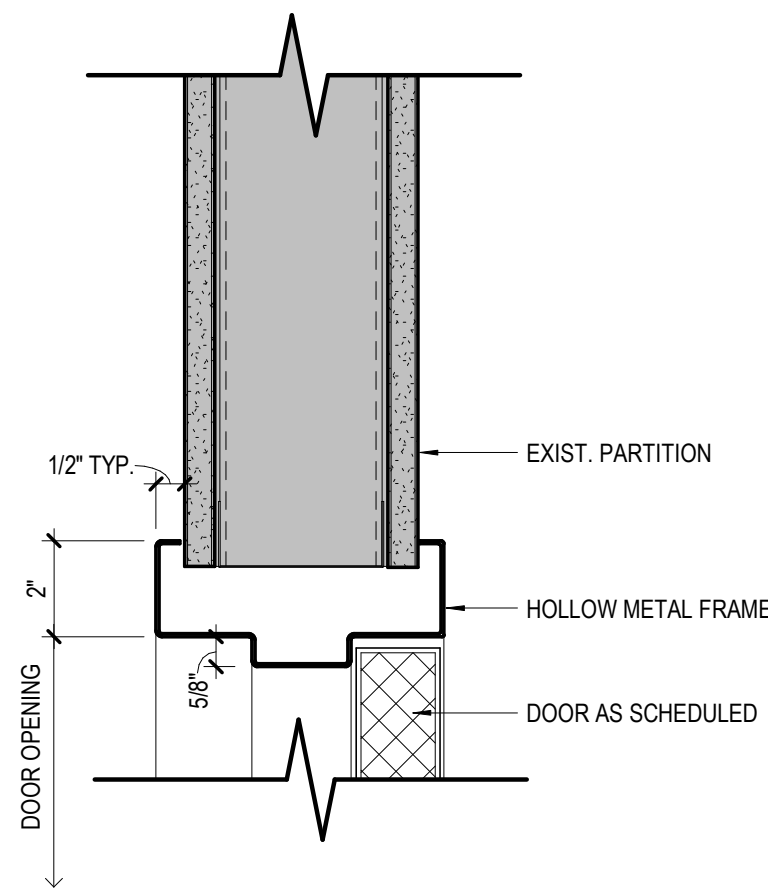
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A44-01

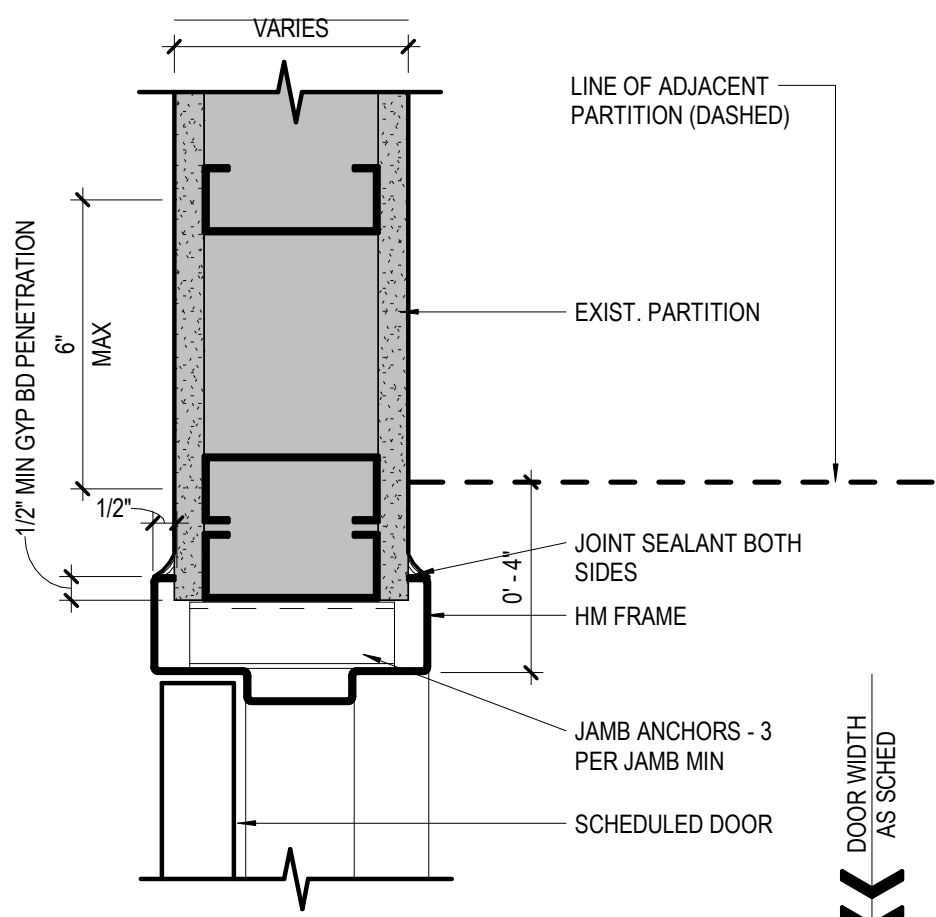
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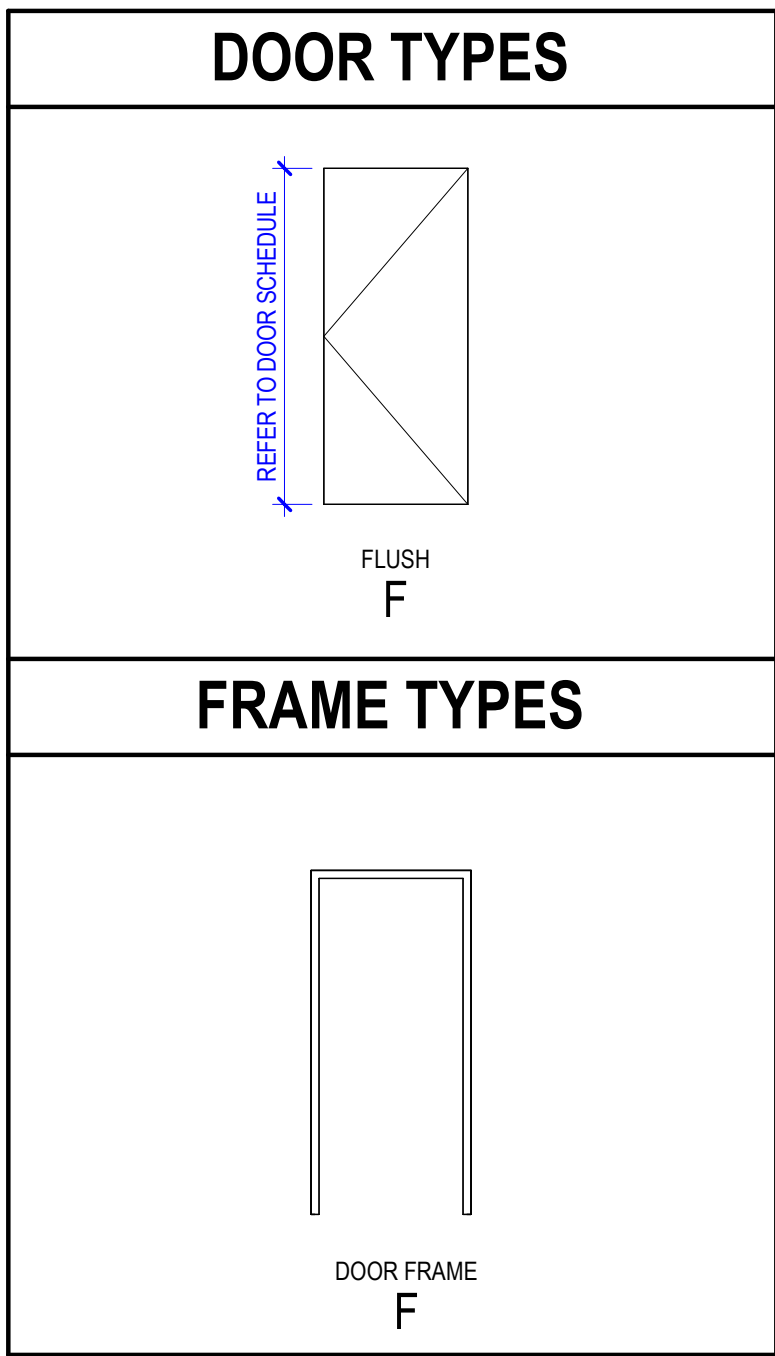
DOOR SCHEDULE													
MARK		DOOR				FRAME				FIRE RATING		HARDWARE SET NUMBER	REMARKS
DOOR NO	ROOM NAME	SIZE		TYPE	MTL	FINISH	TYPE	MTL	FINISH				
		W	HT							HEAD	JAMB		
C236	MEN'S RESTROOM	3'-0"	7'-2"	F	SC WD	HM	F	HM	PNT-1	3/A52-01	2/A52-01	-	2
C237	WOMEN'S RESTROOM	3'-0"	7'-2"	F	SC WD	HM	F	HM	PNT-1	3/A52-01	2/A52-01	-	2
A148	MEN'S RESTROOM	3'-0"	7'-2"	F	SC WD	HM	F	HM	PNT-1	3/A52-01	2/A52-01	-	1
A149	WOMEN'S RESTROOM	3'-0"	7'-2"	F	SC WD	HM	F	HM	PNT-1	3/A52-01	2/A52-01	-	1
C202	WOMEN'S RESTROOM	3'-0"	7'-2"	F	SC WD	HM	F	HM	PNT-1	3/A52-01	2/A52-01	-	1
C203	MEN'S RESTROOM	3'-0"	7'-2"	F	SC WD	HM	F	HM	PNT-1	3/A52-01	2/A52-01	-	1
C103	WOMEN'S RESTROOM	3'-0"	7'-2"	F	SC WD	HM	F	HM	PNT-1	3/A52-01	2/A52-01	-	1
C104	MEN'S RESTROOM	3'-0"	7'-2"	F	SC WD	HM	F	HM	PNT-1	3/A52-01	2/A52-01	-	1



3 DOOR HEAD
SCALE 3" = 1'-0"



2 DOOR JAMB
SCALE 3" = 1'-0"

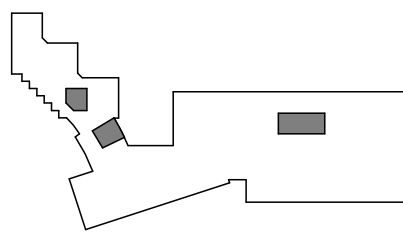


1 SECTION - COUNTER AT LAVATORY
SCALE 1 1/2" = 1'-0"

FINISH SCHEDULE					
TAG	FINISH TYPE	MANUFACTURER	STYLE	COLOR / FINISH	REMARKS
ACT-1	ACOUSTICAL CEILING TILE	CERTAINTEE	1222BF-75-1 SYMPHONY M 2X2X3/4" NARROW REVEALED EDGE	WHITE	
	CEILING GRID	CERTAINTEE	CMC 4500 SERIES 9/16", 1/4" BOLT SLOT	WHITE	
SS-1	SOLID SURFACE	CORIAN	1/2" THK. WITH BUILT UP EDGE	DESIGNER WHITE	COUNTERTOPS
PLAM-1	PLASTIC LAMINATE CLAD DOOR FINISH	FORMICA	SOLID COLOR	MATCH EXISTING DOOR	
PLAM-2	PLASTIC LAMINATE CLAD ARCHITECTURAL FINISH	FORMICA	SOLID COLOR	WHITE	APRON AT LAV.
PNT-1	PAINT	BENJAMIN MOORE	SEM-GLOSS	EXISTING FRAME	

TOILET ACCESSORY SCHEDULE						
TAG	DESCRIPTION	PROCUREMENT	MFR (BOD)	MODEL	COLOR / FINISH	REMARKS
GB-1	GRAB BAR		BOBRICK	B-5806 99 X 42	SATIN STAINLESS STEEL	
GB-2	GRAB BAR		BOBRICK	B-5806 99 X 36	SATIN STAINLESS STEEL	
GB-3	GRAB BAR		BOBRICK	B-5806 99 X 18	SATIN STAINLESS STEEL	
TP	TOILET PARTITION		BOBRICK	1098 SERIES	SC03 TERRA COTTA	CEILING HUNG SOLID COLOR COMPOSITE MATERIAL
UD	URINAL DIVIDER SCREEN		BOBRICK	1098 SERIES	SC03 TERRA COTTA	WALL HUNG SOLID COLOR COMPOSITE MATERIAL
SD-1	SOAP DISPENSER	OFCI	-	-	SATIN STAINLESS STEEL	
DC-1	DIAPER CHANGING STATION		BOBRICK	KB310-SSWM	SATIN STAINLESS STEEL	SURFACE MOUNTED
SND-1	SANITARY NAPKIN DISPOSAL		BOBRICK	B-270 CLASSIC SERIES	SATIN STAINLESS STEEL	SURFACE MOUNTED
SND-2	SANITARY NAPKIN DISPENSER	OFCI	BOBRICK	B-47069C	SATIN STAINLESS STEEL	SURFACE MOUNTED
PTD-1	PAPER TOWEL DISPENSER	OFCI	BOBRICK		SATIN STAINLESS STEEL	SURFACE MOUNTED
HS-1	HAND SANITIZER DISPENSER	OFCI	PURELL	H-1950	WHITE	
MIR-1	MIRROR		-	-	STAINLESS STEEL FRAMED	6MM TEMPERED GLASS
TT-3	TOILET PAPER DISPENSER	OFCI (TBD)	BOBRICK	B-2888	STAINLESS STEEL	

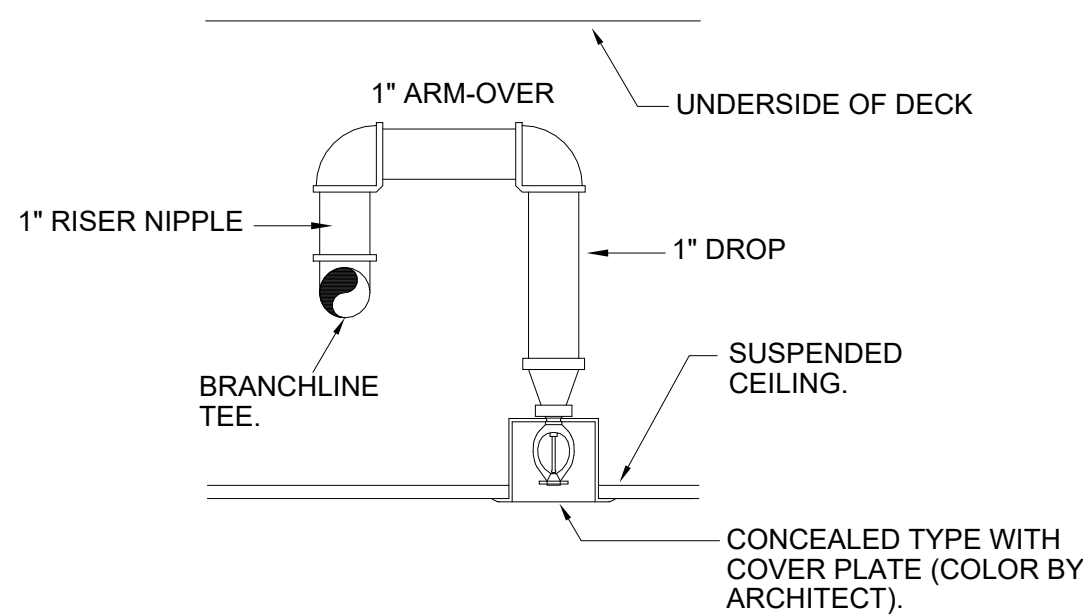
1	ISSUE FOR BID	9 JUNE 2025
DATE	DATE	DATE
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1	ISSUE FOR BID	09 JUN 25
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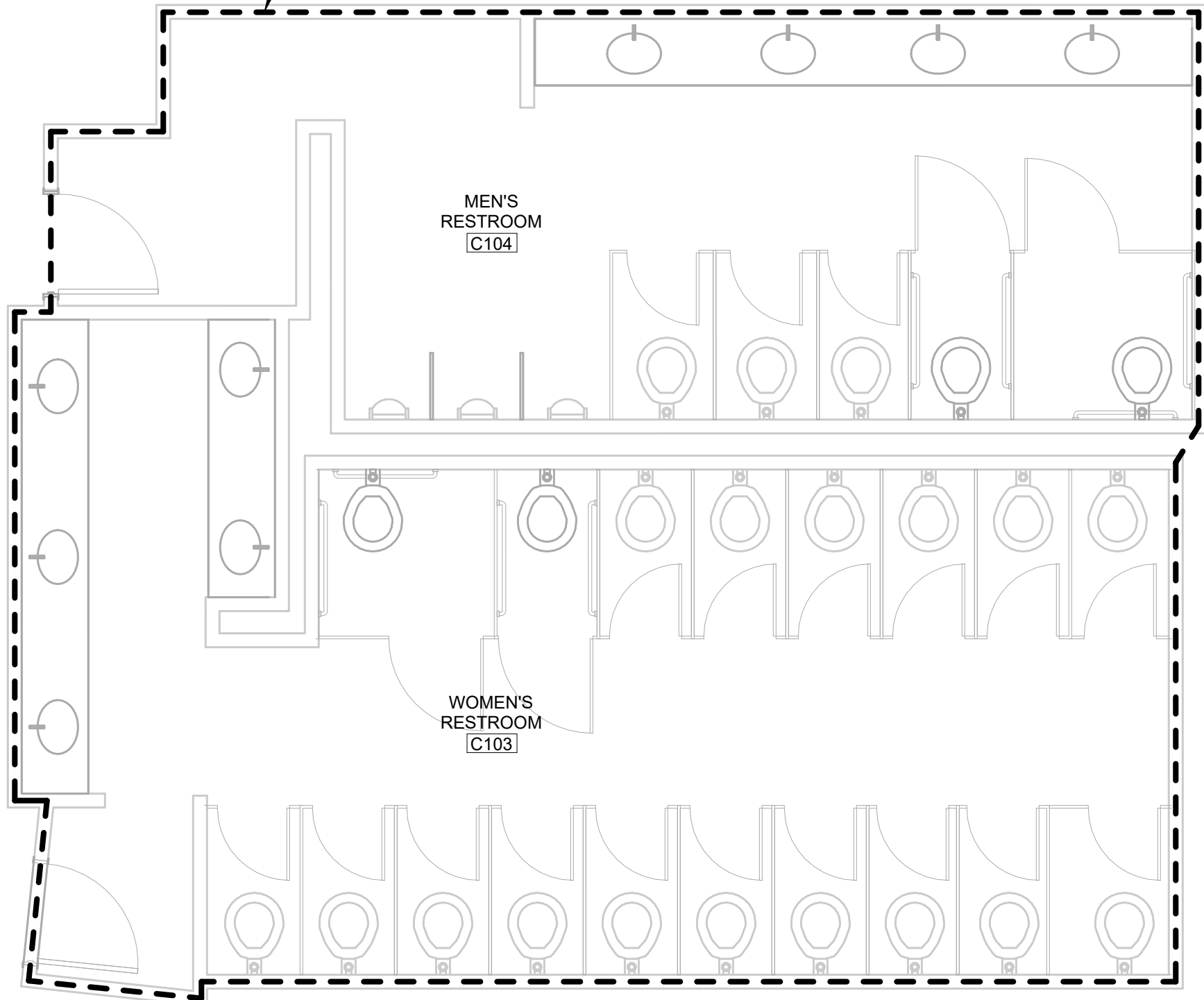
FIRE PROTECTION GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID. CONTRACTOR SHALL DOCUMENT ELECTRONICALLY ACTUAL LOCATION AND ROUTING OF EXISTING SPRINKLER PIPING AND SPRINKLER HEADS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENGINEERING OF THE FIRE SUPPRESSION SYSTEM, INCLUDING PREPARATION OF WORKING PLANS, CALCULATIONS, AND FIELD TEST REPORTS. ENGINEERING SHALL BE PERFORMED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER WHO SHALL SEAL AND SIGN ALL WORKING PLANS, DETAILS AND CALCULATIONS.
- EACH SPRINKLER HEAD OUTLET WITHIN THE SPACE SHALL FEED A SINGLE SPRINKLER HEAD. MODIFY THE EXISTING SPRINKLER PIPING FOR PROVIDING WATER SUPPLY TO THE ADDITIONAL SPRINKLER HEADS ADDED AS REQUIRED PER NFPA 13 IN EXISTING AREAS WHERE NEW SPRINKLER PIPING IS INSTALLED AND/OR MODIFIED.
- ALL NEW MATERIAL AND EQUIPMENT SHALL BE LISTED BY U.L. AND APPROVED BY F.M.
- IN THE FINISHED CEILING AREAS, SPRINKLER HEADS SHALL BE QUICK RESPONSE CONCEALED PENDENT TYPE WITH COVER PLATE COLOR TO BE SELECTED BY ARCHITECT. IN AREAS WITHOUT CEILING, SPRINKLER HEADS TO BE UPRIGHT OR SIDEWALL. ALL SIDE WALL OR UPRIGHT SPRINKLER HEADS SHALL BE PROVIDED WITH PROTECTIVE COVER. ALL UPRIGHT & SIDEWALL SPRINKLER HEADS AND PROTECTIVE COVER FINISHES & COLOR TO BE SELECTED BY THE ARCHITECT. ORIFICE SIZE, MAKE AND MODEL OF SPRINKLER HEADS SHALL MATCH WITH THE BUILDING SPRINKLERS RATED AT 175 PSI, BUT WHERE SYSTEM PRESSURES EXCEED 175 PSI, PROVIDE HIGH PRESSURE SPRINKLER HEADS. ACCEPTABLE MANUFACTURERS ARE: VICTAULIC, VIKING, TYCO, AND RELIABLE.
- MAINTAIN MINIMUM CLEARANCE OF 18 INCHES OR GREATER BETWEEN SPRINKLER HEAD DEFLECTOR AND THE TOP OF MATERIAL STORED BENEATH.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
- CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT AND MATERIALS PERTAINING TO HIS CONTRACT AS SPECIFIED OR AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT. TO PREPARE FOR THE NEW WORK, ANY COMPONENT OF THE EXISTING SYSTEM REQUIRING REPLACEMENT OR UPGRADE TO MEET CODES MUST BE REPLACED WITH NEW. REROUTE EXISTING PIPING, RELOCATE EXISTING SPRINKLER HEADS AND ADD NEW SPRINKLER HEADS AS REQUIRED TO ACCOMMODATE NEW WALLS, STRUCTURAL COMPONENTS AND/OR CHANGES MADE BY OTHER TRADES.
- CONTRACTOR SHALL INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13, IFC 2015 AND LOCAL BUILDING CODES.
- SUBMIT COORDINATED SHOP DRAWINGS TO ARCHITECT, LOCAL FIRE PREVENTION BUREAU AND OWNER'S INSURANCE UNDERWRITERS FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OF A FIRE SUPPRESSION SYSTEM. THE SHOP DRAWINGS SHALL INCLUDE AND SHOW THE BASIS OF COMPLIANCE WITH THE DESIGN DENSITY AND THE SPECIFIC ARRANGEMENT OF THE SYSTEM, THE DETAILS ON THE SHOP DRAWINGS SHALL INCLUDE HANGER LOCATIONS, EXISTING AND NEW PIPE SIZING AND ELEVATIONS, DUCTWORK, DIFFUSERS, REGISTERS, MECHANICAL EQUIPMENT, LIGHT FIXTURE AND SPRINKLER HEAD LOCATIONS AND MUST BE SUBMITTED PRIOR TO FABRICATION AND INSTALLATION. THE SHOP DRAWINGS SUBMITTAL SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S QUALIFIED LICENSED PROFESSIONAL ENGINEER. SUBMITTAL SHALL ALSO INCLUDE MANUFACTURER'S INSTALLING INSTRUCTIONS FOR ANY SPECIALLY LISTED EQUIPMENT INCLUDING DESCRIPTIONS, LIMITATIONS FOR ANY SPRINKLER DEVICES, AND FITTINGS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEAD LOCATIONS ON THE SHOP DRAWINGS ARE SUBJECT TO APPROVAL BY THE ARCHITECT.
- SPRINKLERS SHALL BE PLACED IN THE CENTER OF CEILING TILES IN BOTH DIRECTIONS.
- PROVIDE ACCESS PANELS FOR ALL VALVES, FLOW SWITCHES AND OTHER ITEMS REQUIRING SERVICE AND ACCESSIBILITY ABOVE NON-ACCESSIBLE CEILING.
- CONTRACTOR IS RESPONSIBLE TO SAW-CUT EXISTING WALLS, CORE FLOORS AND CEILINGS FOR INSTALLING NEW PIPING. ALL NEW PIPING PENETRATIONS SHALL BE PROPERLY SEALED WITH U.L. LISTED FIRE STOPPING MATERIALS TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING, REGARDLESS IN THE EXPOSED CONSTRUCTION AREAS OR ABOVE DROPPED-CEILING AREAS.
- CONTRACTOR SHALL SIZE SPRINKLER PIPING HYDRAULICALLY IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 2013 EDITION AND IFC 2015 UNLESS NOTED OTHERWISE. PROVIDE PERMANENT METAL PLACARD AT THE BASE OF EACH RISER, INDICATING THE DESIGN, AREA, FLOW AND PRESSURE REQUIRED FOR EACH SYSTEM.
- POOLING OF CUTTING OILS OR OTHER PETROLEUM BASED PRODUCTS IN THE SPRINKLERS MUST BE AVOIDED. THEREFORE, ALWAYS CUT AND THREAD PIPE WITHOUT THE SPRINKLER PIPING BEING ATTACHED AND BE SURE TO CHECK AND DRAIN THE DROPS OF ANY EXCESSIVE OIL PRIOR TO INSTALLATION OF THE SPRINKLERS.
- ALL PIPING TO BE INSTALLED ABOVE ESTABLISHED FINISHED CEILING AND TO RUN CONCEALED TO FOLLOW THE ARCHITECT'S DESIGN INTENTION. ANY PIPING THAT MUST RUN EXPOSED SHALL BE PAINTED WITH COLOR SELECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- CONTRACTOR MUST NOTIFY ARCHITECT, OWNER AND LOCAL FIRE DEPARTMENT IN WRITING MINIMUM 5 BUSINESS DAYS PRIOR TO ANY SHUTDOWN OF SYSTEM.
- CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS FOR ALL PIPING AFTER INCORPORATING ALL THE CHANGES MADE IN FIELD.
- ANY EXISTING SPRINKLER PIPING NO LONGER USED OR EXISTING ABANDONED PIPING, HANGERS, SUPPORTS AND RELATED APPURTENANCES SHALL BE REMOVED.
- CONTRACTOR SHALL COORDINATE PIPING RUNS AND DROPS TO CEILING WITH ALL OTHER TRADES AND OFFSET ROUTING TO AVOID DUCTWORK, PIPING, MECHANICAL EQUIPMENT & ELECTRICAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION AND ROUTING OF THE EXISTING PIPING.
- ALL PERMITS, FEES, LICENSES, APPROVALS, AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER COMPLETION AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT, AND WORKMANSHIP.
- PROVIDE COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF THE INSTALLED EQUIPMENT.
- THE DRAWINGS INDICATE THE ZONING, GENERAL CHARACTER, AND LOCATION OF WORK INCLUDED, BUT HAVING DETAILS OMITTED WHICH ARE TO BE PROVIDED WITHOUT EXTRA COST.
- STEEL PIPE WITH WALL THICKNESS LESS THAN SCHEDULE 40 SHALL NOT BE JOINED BY THREADED FITTINGS. ALL PIPE SHALL BE MARKED CONTINUOUSLY ALONG ITS LENGTH BY THE MANUFACTURER IN SUCH A WAY AS TO PROPERLY IDENTIFY THE TYPE OF PIPE.
- FITTINGS SHALL BE RATED FOR 175 PSI.
- SUPPORT NEW WATER EXTINGUISHING PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13. WHEN THE MAXIMUM PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI, THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP NIPPLE OR ARMOVER AND THE LAST HANGER ON BRANCH LINE SHALL NOT BE GREATER THAN 12 INCHES.

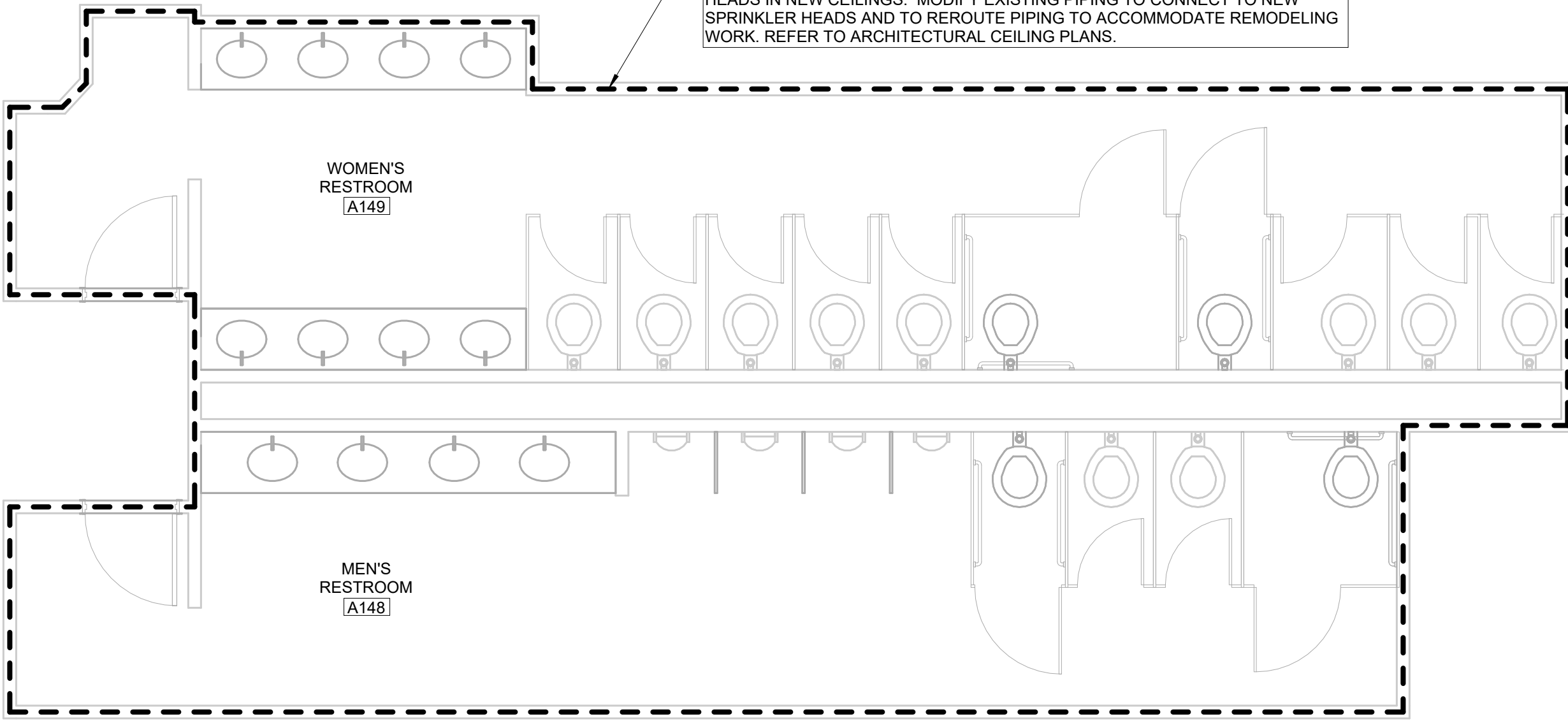


NIPPLE & REDUCING ELBOW
SUPPLYING SPRINKLER HEAD
NO SCALE

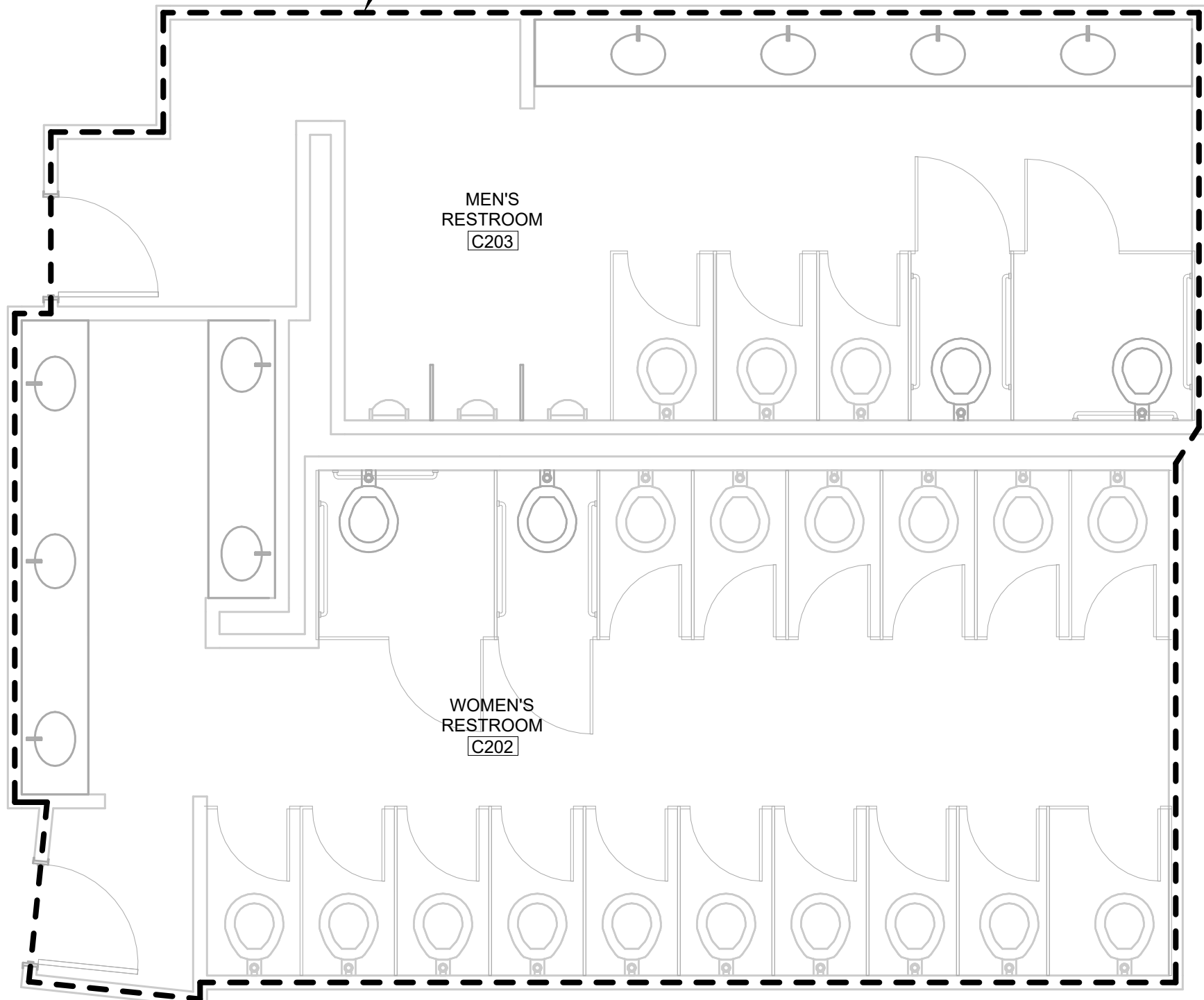
DISCONNECT AND REMOVE EXISTING SPRINKLER HEADS AND PIPING IN THE OUTLINED AREAS TO ACCOMMODATE REMODELING WORK. FURNISH AND INSTALL NEW QUICK RESPONSE CEILING CONCEALED PENDENT SPRINKLER HEADS IN NEW CEILINGS. MODIFY EXISTING PIPING TO CONNECT TO NEW SPRINKLER HEADS AND TO REROUTE PIPING TO ACCOMMODATE REMODELING WORK. REFER TO ARCHITECTURAL CEILING PLANS.



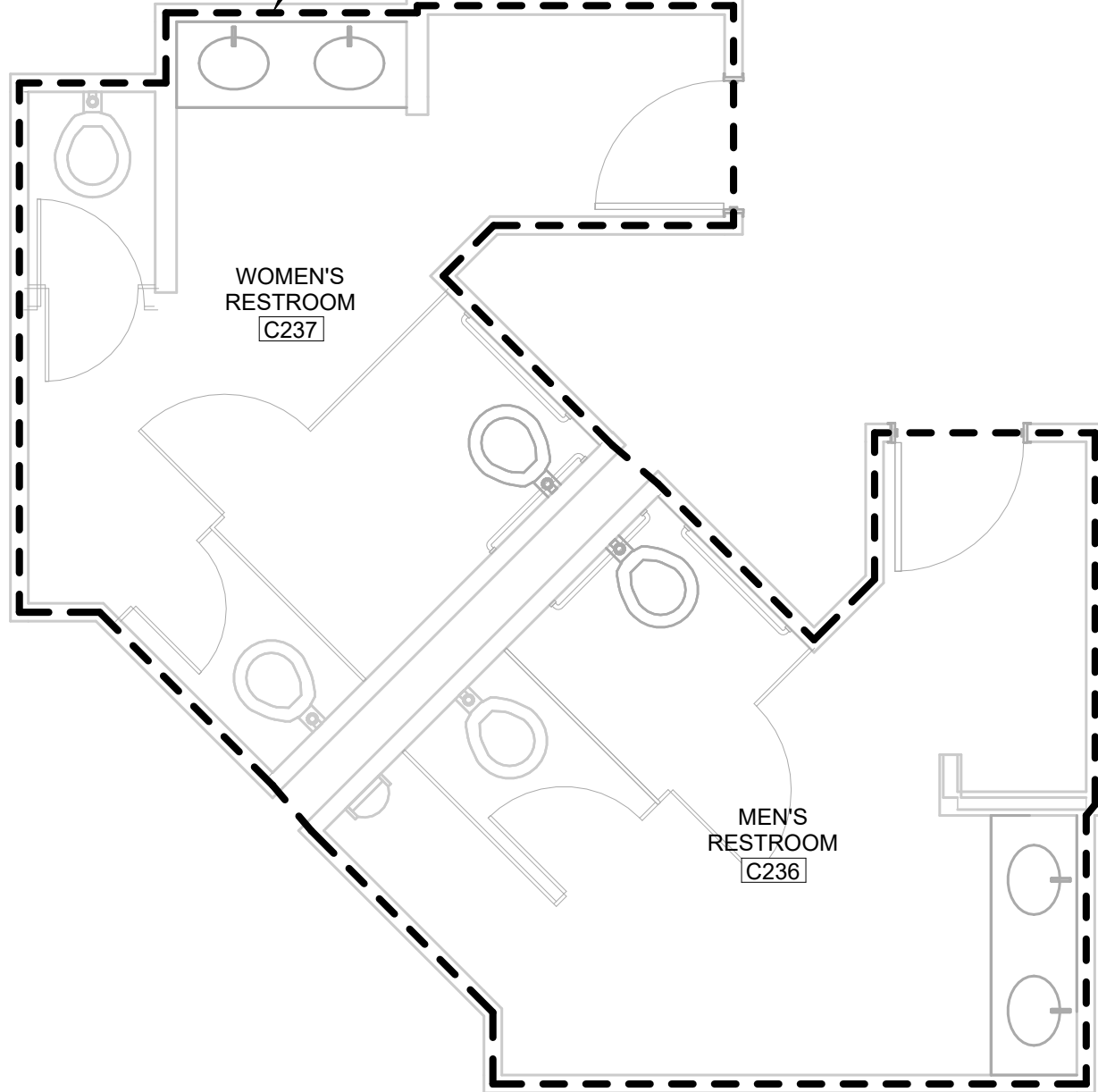
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1 FIRE PROTECTION PLAN - C103/104

1/4" = 1'-0"

2 FIRE PROTECTION PLAN - A148/149

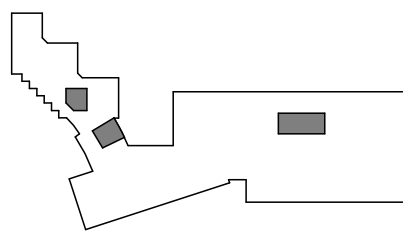
1/4" = 1'-0"

3 FIRE PROTECTION PLAN - C202/203

1/4" = 1'-0"

4 FIRE PROTECTION PLAN - C236/237

1/4" = 1'-0"



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PLUMBING GENERAL DEMOLITION NOTES:

NOTES RE: EXISTING CONDITIONS

- VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO BIDDING. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
- MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
- DISCONNECT AT SOURCE AND REMOVE EXISTING PLUMBING FIXTURES, PIPING, HANGERS, ANCHORS, AND OTHER ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS.
- THE OWNER RESERVES THE RIGHT TO SALVAGE ANY EQUIPMENT OR MATERIALS REMOVED BY THE CONTRACTOR. SALVAGED EQUIPMENT WILL BE IDENTIFIED AND TAGGED BY THE OWNER PRIOR TO START OF DEMOLITION AND DIRECTION WILL BE GIVEN TO THE CONTRACTOR FOR TURN OVER OF THIS EQUIPMENT AT THE SCHOOL LOADING DOCK. COORDINATE WITH OWNER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN OPERATION AT ALL TIMES DURING OCCUPIED PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNERS CONVENIENCE DURING OFF HOURS. CONTRACTOR SHALL PROVIDE OWNER ADVANCE NOTICE IN WRITING A MINIMUM OF 3 BUSINESS DAYS PRIOR TO SHUT DOWN.
- COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
- ALL CUTTING AND PATCHING AS REQUIRED FOR WORK TO BE BY THE CONTRACTOR. REFER TO SPECIFICATIONS.
- WHERE THE EXISTING PIPING SERVING ANY EXISTING FIXTURE IN AREA OF EXISTING BUILDING NOT TO BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPING WITH PRIOR APPROVAL FROM THE ENGINEER.

NOTES RE: INSPECTING EXISTING BUILDING

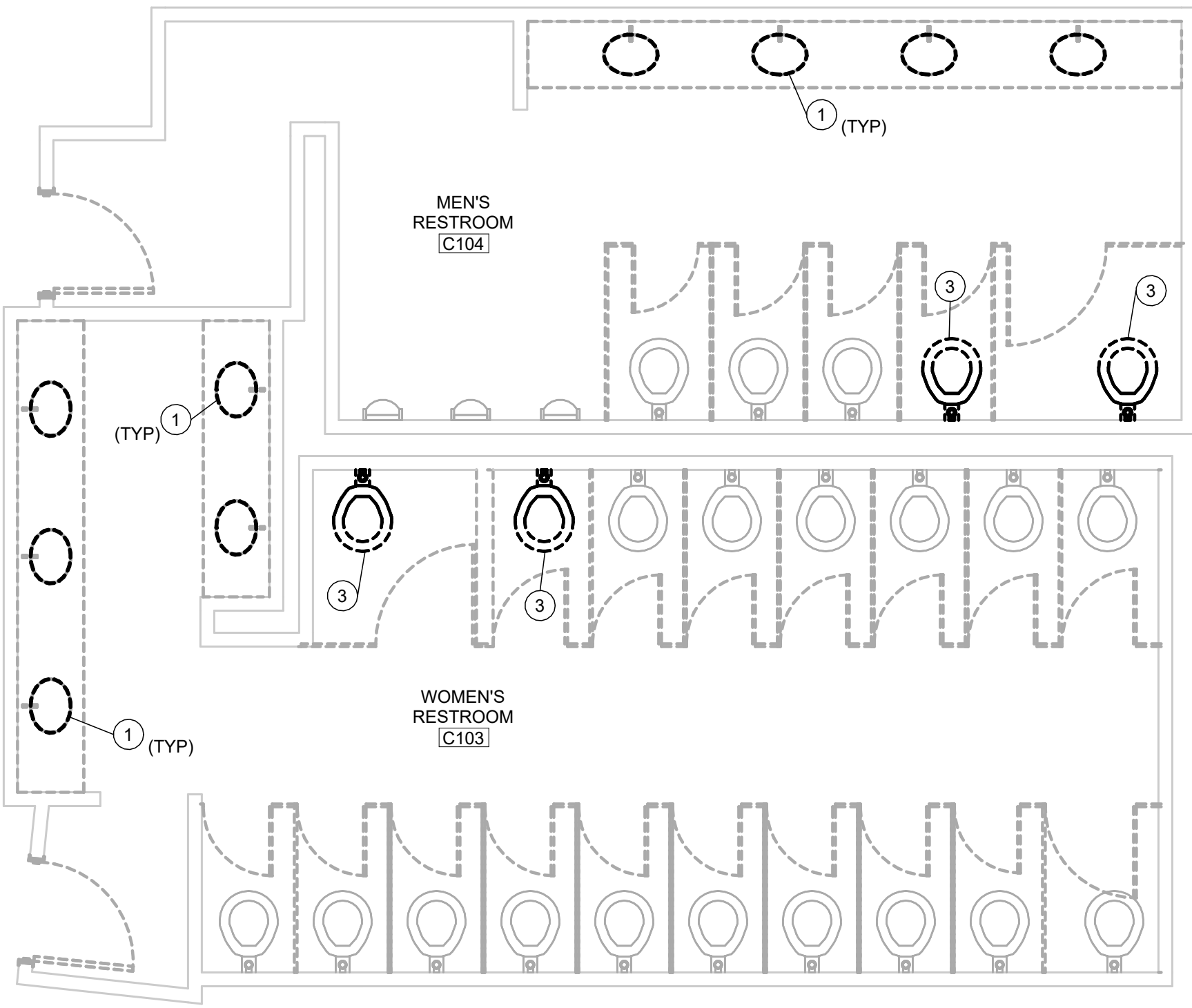
- THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
- WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS, AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
- CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.

LEGENDS:

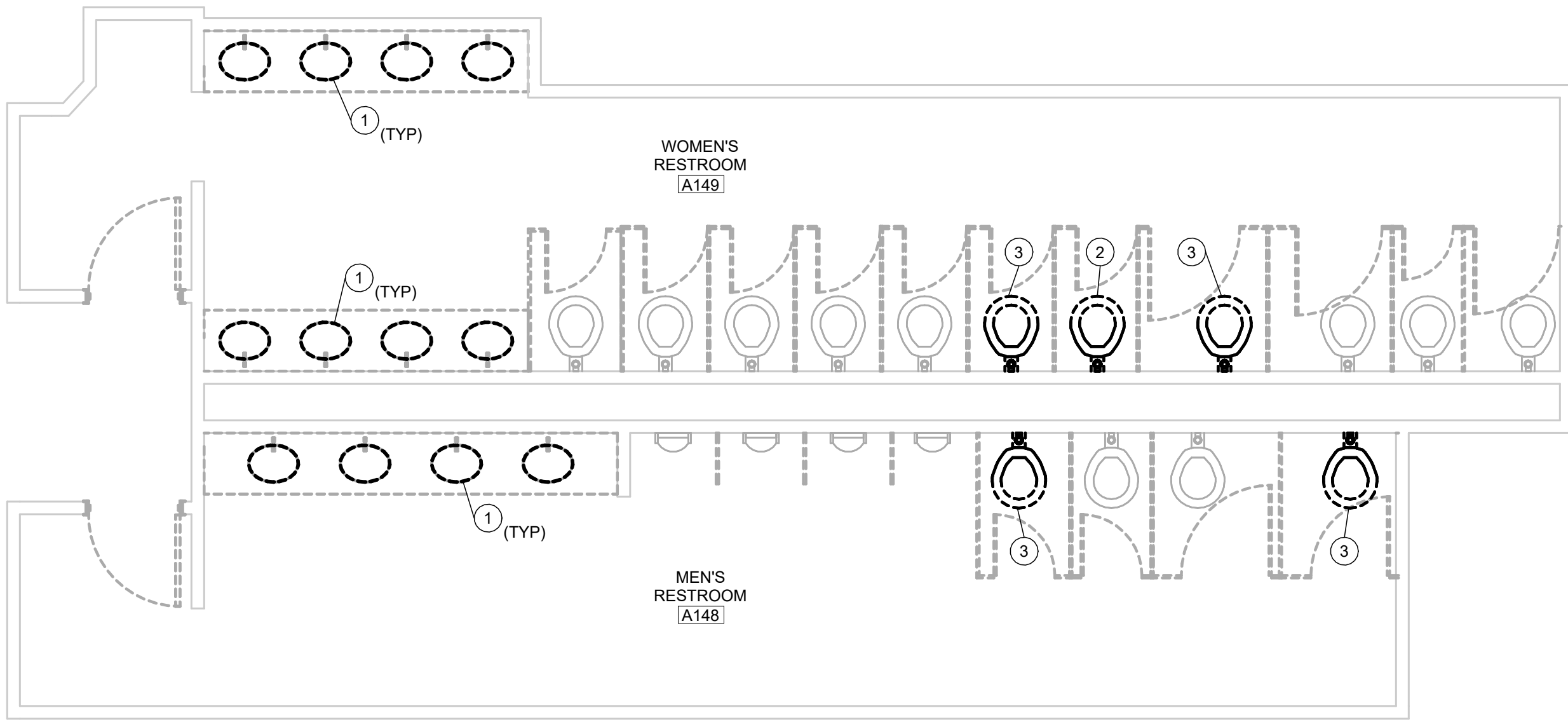
- INDICATES EXISTING TO REMAIN.
- - - - - INDICATES EXISTING TO BE DISCONNECTED AND REMOVED.
E.T.R. EXISTING TO REMAIN.

PLUMBING DEMOLITION NOTES:

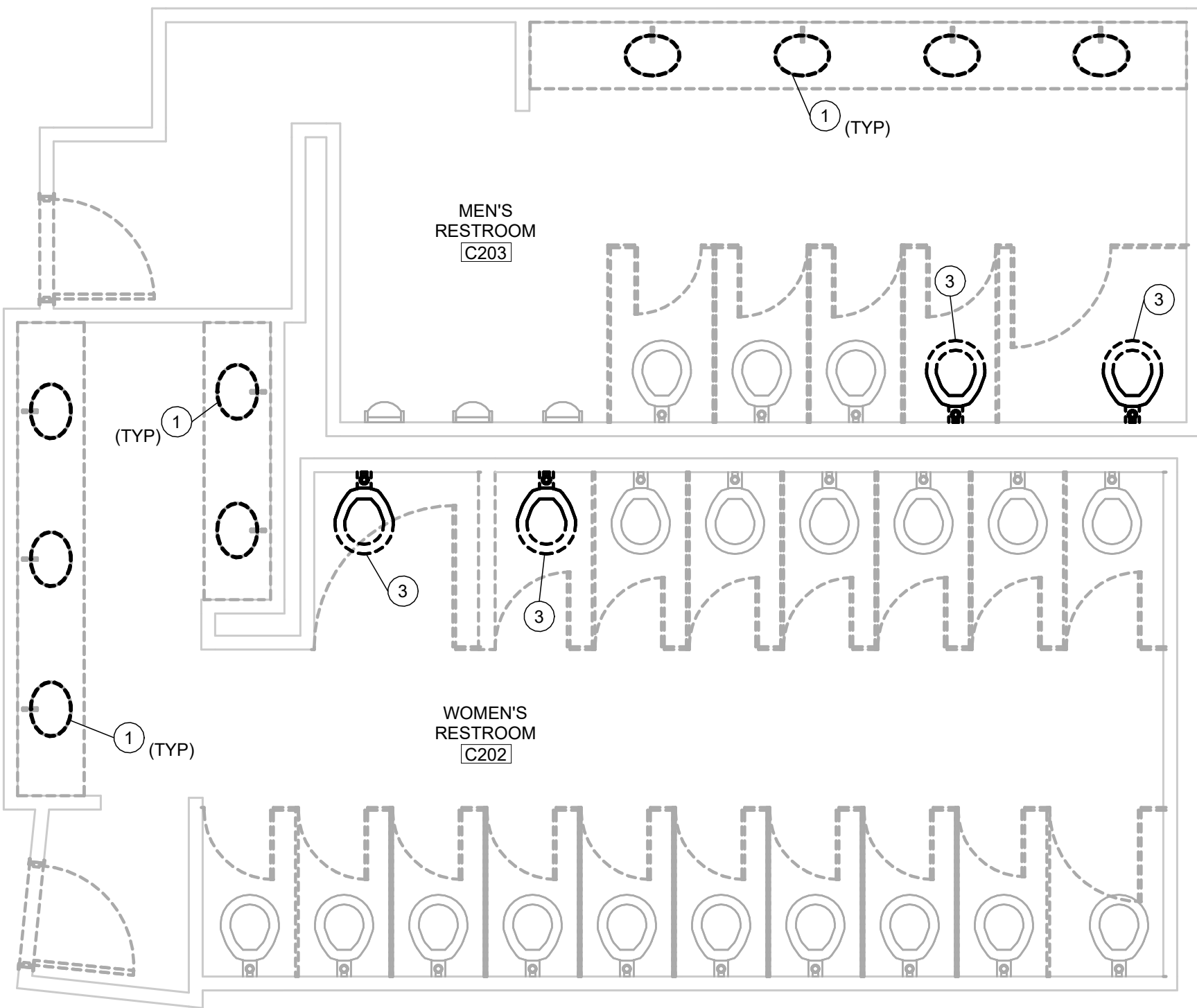
- REMOVE LAVATORY, FAUCET, AND COUNTERTOP. MAINTAIN EXISTING PIPING FOR RECONNECTION. REFER TO ARCHITECTURAL FOR FURTHER INFORMATION ON COUNTERTOP REMOVAL.
- REMOVE WATER CLOSET COMPLETE WITH ALL HARDWARE, SUPPPORTS, DRAIN, VENT, AND DOMESTIC WATER PIPING BACK TO SOURCE WITHIN WALL AND CAP. SAWCUT WALL AS NECESSARY FOR REMOVAL OF MATERIALS. FIELD VERIFY EXTENT OF DEMOLITION NECESSARY TO AVOID CREATION OF DEAD ENDS AS REQUIRED BY CODE. SAW CUT WALL AS NECESSARY FOR DEMOLITION. PATCH WALL TO MATCH SURROUNDING CONSTRUCTION AND FINISHES. COORDINATE WITH ARCHITECTURAL.
- REMOVE WATER CLOSET AND CARRIER AS NECESSARY FOR REPLACEMENT WITH NEW ACCESSIBLE HEIGHT WATER CLOSET. MODIFY SANITARY WASTE, VENT, AND DOMESTIC WATER PIPING AS NECESSARY FOR RECONNECTION TO NEW WATER CLOSET. FIELD VERIFY EXTENT OF DEMOLITION NECESSARY. SAW CUT WALL AS NECESSARY FOR DEMOLITION. PATCH WALL TO MATCH SURROUNDING CONSTRUCTION AND FINISHES. COORDINATE WITH ARCHITECTURAL.



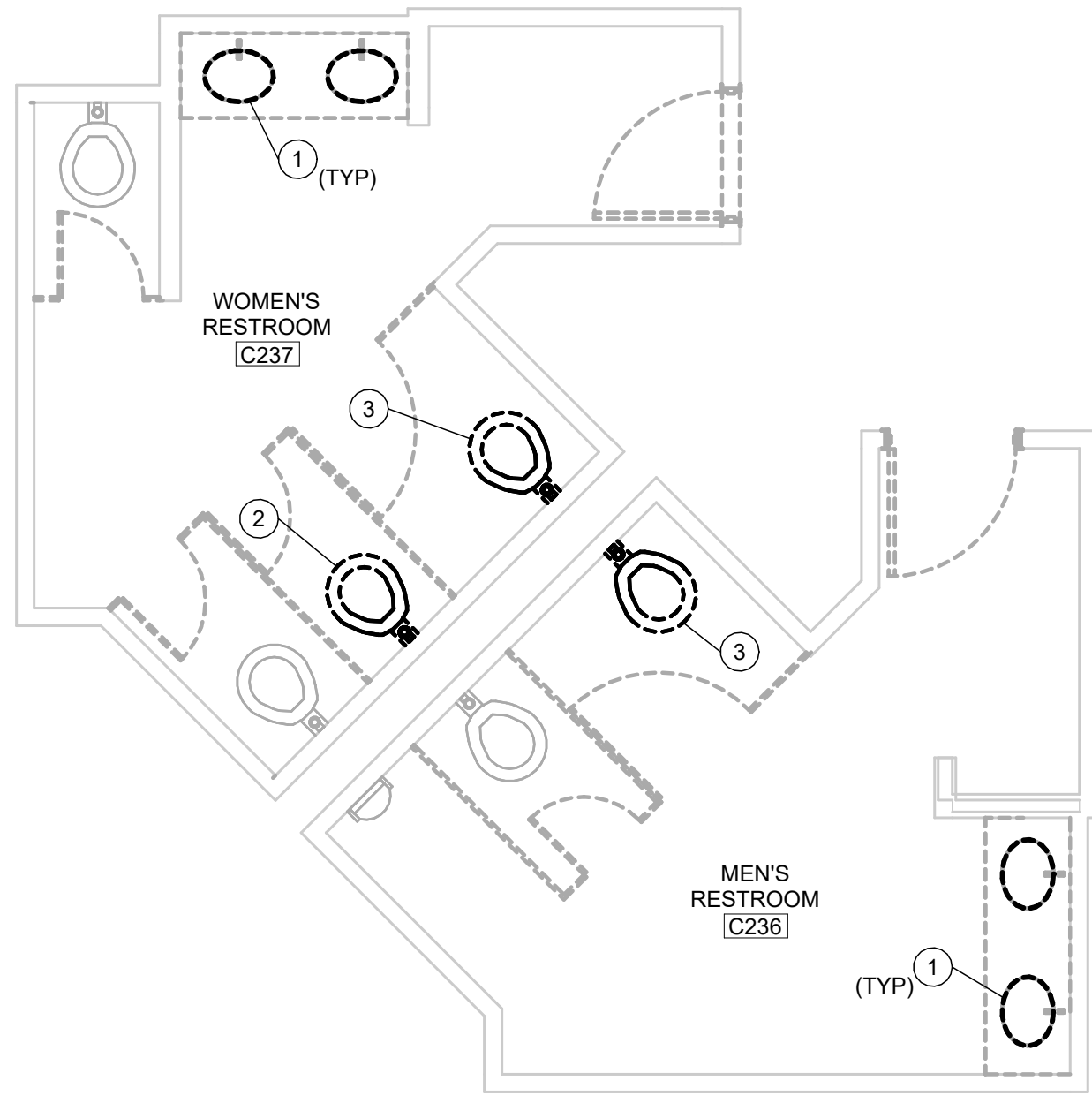
1 PLUMBING DEMOLITION PLAN - C103/104
1/4" = 1'-0"



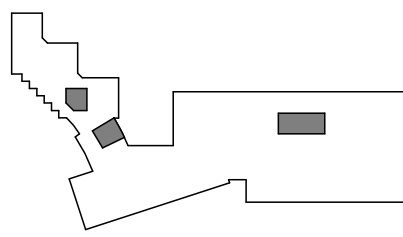
2 PLUMBING DEMOLITION PLAN - A148/149
1/4" = 1'-0"



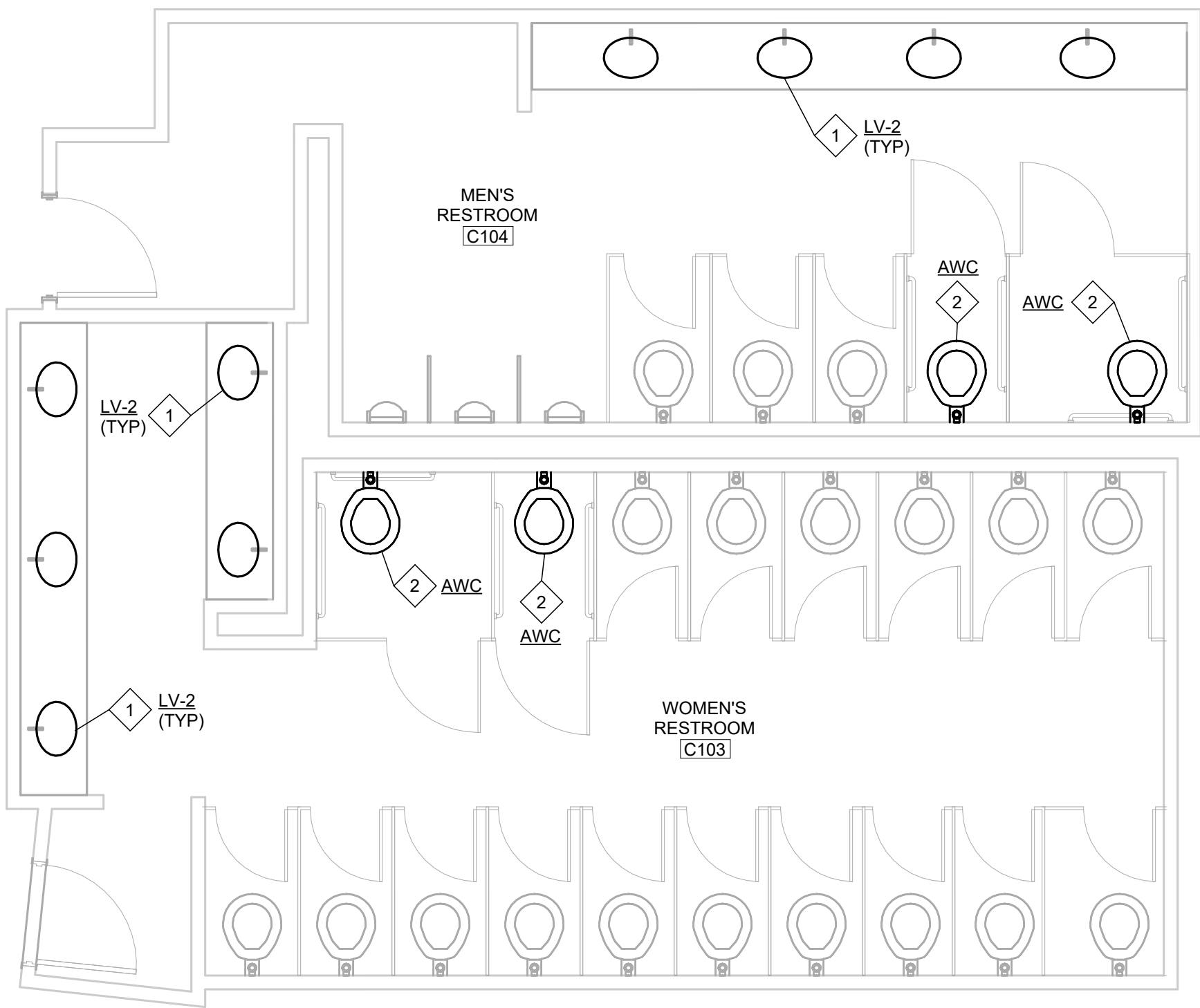
3 PLUMBING DEMOLITION PLAN - C202/203
1/4" = 1'-0"



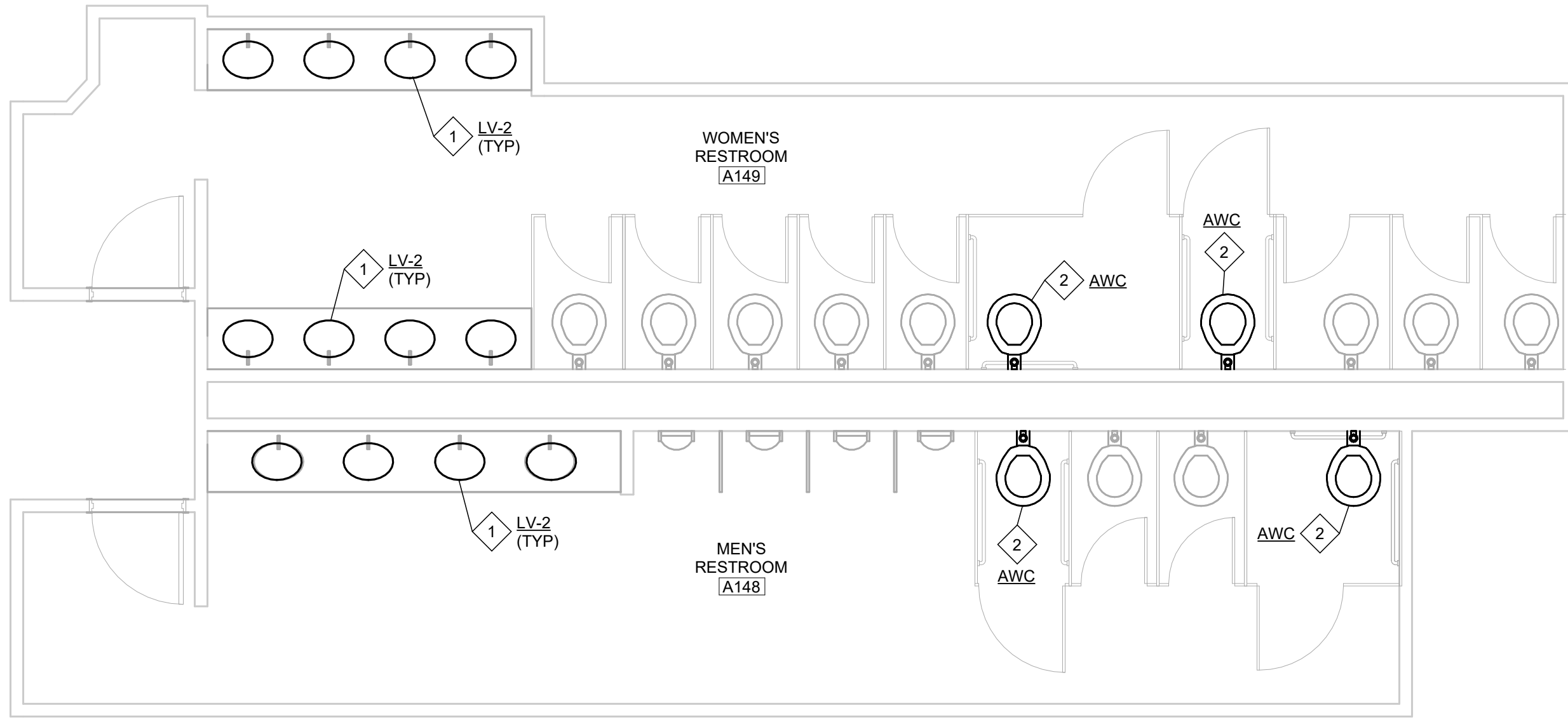
4 PLUMBING DEMOLITION PLAN - C236/237
1/4" = 1'-0"



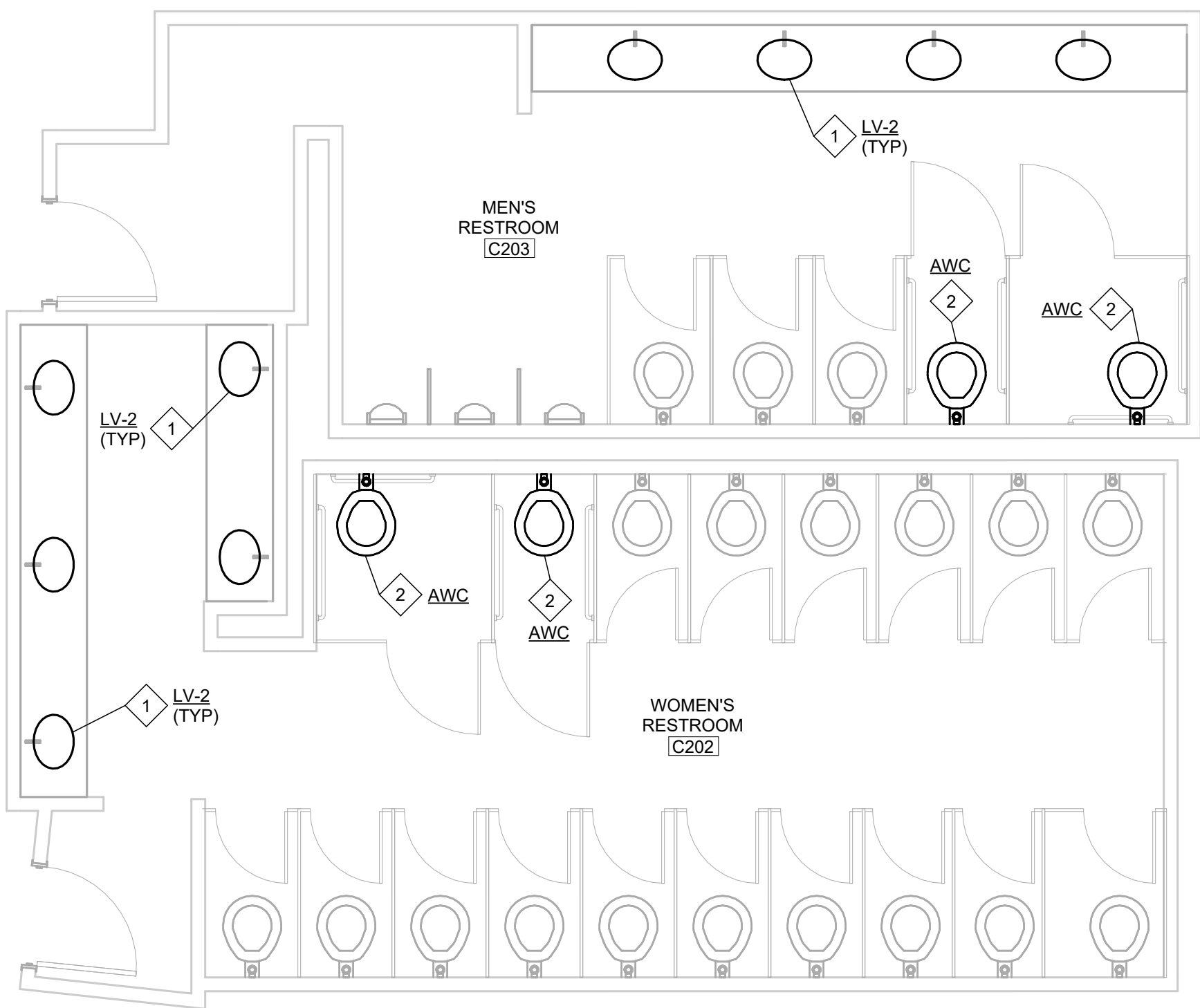
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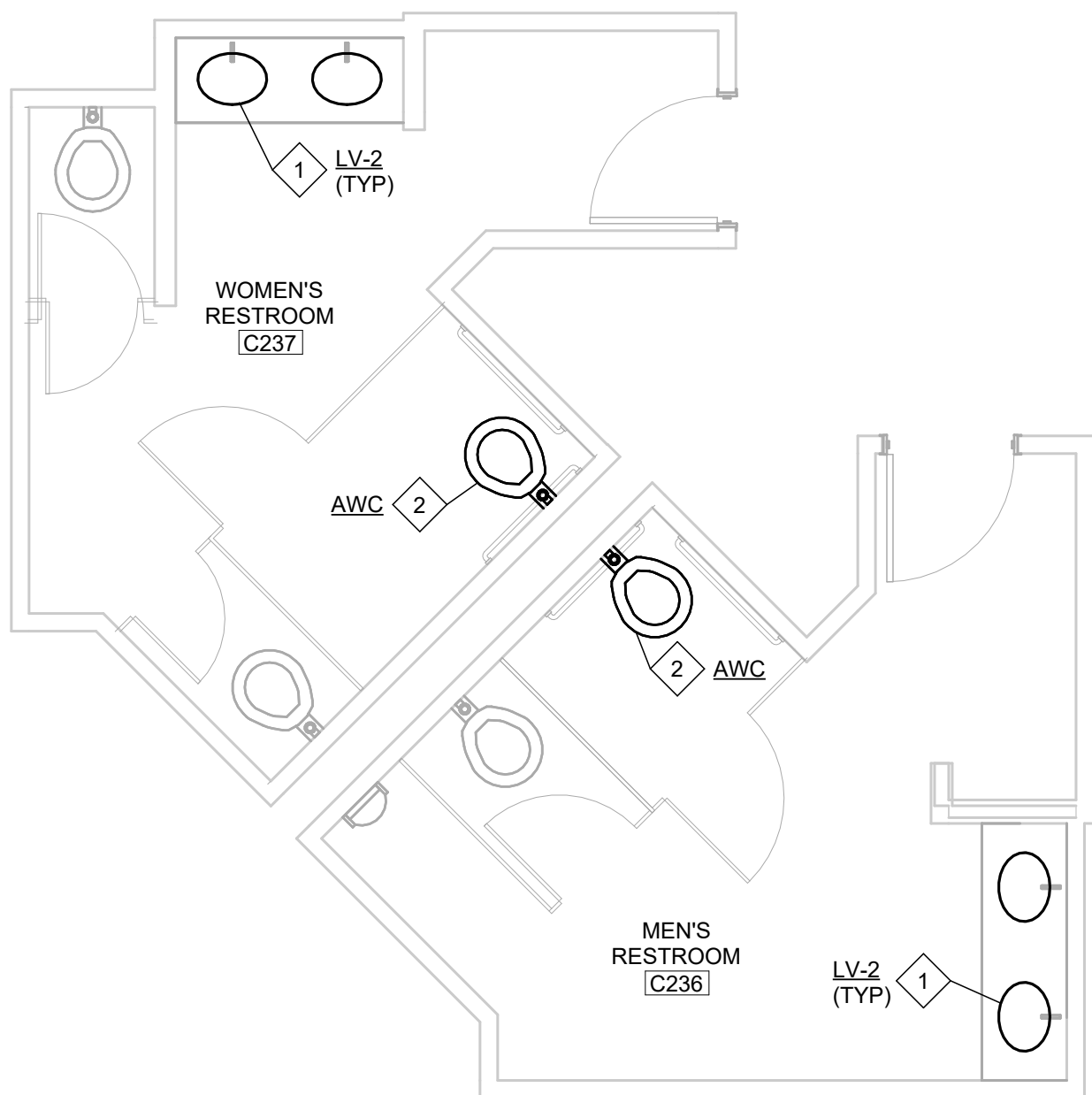
1 PLUMBING PLAN - C103/104
1/4" = 1'-0"



3 PLUMBING PLAN - A148/149
1/4" = 1'-0"



2 PLUMBING PLAN - C202/203
1/4" = 1'-0"



4 PLUMBING PLAN - C236/237
1/4" = 1'-0"

PLUMBING INSTALLATION NOTES:

- 1 PROVIDE LAVATORY LEVEL AND PLUMB IN NEW COUNTERTOP. INSTALL PER ALL MANUFACTURER RECOMMENDATIONS. REFER TO ARCHITECTURAL FOR FURTHER INFORMATION ON COUNTERTOP INSTALLATION. PROVIDE COUNTERTOP MOUNTED FAUCET. COORDINATE PLACEMENT AND MOUNTING HOLE WITH ARCHITECTURAL. RECONNECT TO EXISTING DOMESTIC WATER, SANITARY DRAIN, AND VENT PIPING. PROVIDE THERMOSTATIC MIXING VALVE AND HYDROELECTRIC FAUCET KIT PER ALL MANUFACTURER RECOMMENDATIONS.
- 2 PROVIDE WATER CLOSET LEVEL AND PLUMB AT LOCATION INDICATED. COORDINATE FINAL LOCATION AND ELEVATION WITH ARCHITECTURAL. INSTALL PER ALL MANUFACTURER RECOMMENDATIONS. RECONNECT TO EXISTING SANITARY WASTE, VENT, AND DOMESTIC WATER PIPING. PATCH WALL TO MATCH SURROUNDING CONSTRUCTION AND FINISHES. COORDINATE WITH ARCHITECTURAL FOR FINAL LOCATION AND MOUNTING HEIGHT.

GENERAL PLUMBING NOTES:

(SEE BOOK SPECIFICATION FOR ADDITIONAL INFORMATION)

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID.
- A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING LOCATIONS SIZES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THE CONTRACTOR FAILING TO DO SO.

B. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH PROCESS FOR ACCESSING SITE, ROOF, BASEMENT, FLOOR AND SPACE. CONTRACTOR SHALL NOT CUT ANY OPENINGS, IN FAÇADE, ROOF, FLOORS, ETC UNLESS COMPLETELY NECESSARY AND WITH PRIOR APPROVAL FROM THE OWNER AND ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCLUDING PATCHING AND REPAIR TO RETURN TO ORIGINAL CONDITION.
2. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND INDICATE APPROXIMATE LOCATION OF EXISTING FIXTURES, PIPING AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATIONS, SIZES AND ROUTING OF THE EXISTING, PIPING, ETC.
- A. CONTRACTOR SHALL REMOVE EXISTING FIXTURES, EQUIPMENT, PIPING AND MATERIALS PERTAINING TO HIS CONTRACT AS SPECIFIED OR AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK. LANDLORD TO BE PROVIDED WITH RIGHT OF REFUSAL FOR SALVAGE VALUE OR ATTIC STOCK. IF OWNER REFUSES CONTRACTOR SHALL REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE AND PROPERLY DISPOSE.

B. CONTRACTOR SHALL PROVIDE LABOR, MATERIALS AND EQUIPMENT AND INSTALL SAME AS REQUIRED TO ACCOMPLISH WORK AND PROVIDE COMPLETE AND FULLY FUNCTIONING SYSTEMS.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY EXISTING MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC., AT NO ADDITIONAL COST.
5. CEILING SPACE IS USED AS A RETURN AIR PLENUM. ALL MATERIALS IN CEILING SPACE SHALL BE RATED FOR RETURN AIR PLENUM PER THE ILLINOIS BUILDING CODE. COORDINATE WITH ALL TRADES. PVC PIPING IS NOT PERMITTED IN THE CEILING SPACE. REFER TO ILLINOIS BUILDING CODE SECTION 602.2.1 FOR ALL REQUIREMENTS FOR MATERIALS WITHIN PLENUMS. EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.7, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE. THESE CODES SHALL BE FOLLOWED AS MINIMUM, PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY ILLINOIS STATE PLUMBING CODE AND LOCAL CODES.
7. ALL EQUIPMENT, MATERIALS, ETC. SHALL COMPLY WITH THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
8. ALL WETTED SURFACES OF EQUIPMENT, MATERIALS, ETC. SHALL COMPLY WITH NSF 61 FOR POTABLE DOMESTIC WATER PIPING AND COMPONENTS.
9. ALL PERMITS, FEES, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.
10. SUBMITTALS

A. SUBMITTAL FIXTURES AND EQUIPMENT SPECIFICATIONS AND CUTS FOR REVIEW AND APPROVAL.

B. SUBMIT ASSEMBLED PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS.

C. SUBMIT ASSEMBLED PRINTED OPERATION AND MAINTENANCE MANUALS FOR DOMESTIC WATER HEATING SYSTEMS, SUB-SYSTEMS AND EQUIPMENT INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS IN ACCORDANCE WITH SECTION C408.1.1 OF THE 2018 IECC.

D. SUBMIT COORDINATED SHOP DRAWINGS FOR REVIEW. THE SHOP DRAWINGS SHALL INDICATE PIPING AND FIXTURE LOCATIONS AND MUST BE SUBMITTED PRIOR TO INSTALLATION.

E. CONTRACTOR SHALL SUBMIT FLUSHING AND DISINFECTION REPORTS REQUIRED BY OWNER FOR APPROVAL.

F. CONTRACTOR TO SUBMIT AS-BUILT DRAWINGS FOR PIPING, INCLUDING FIXTURE LOCATIONS.

G. SUBMIT DOMESTIC WATER HEATING EQUIPMENT FUNCTIONAL TEST RESULTS PRIOR TO FINAL INSPECTION.

H. SUBMIT ITEMIZED DEFICIENCIES LIST PRIOR TO FINAL INSPECTION.

I. SUBMIT SCHEDULE FOR ALL REQUIRED TRAINING PRIOR TO FINAL INSPECTION.

J. SUBMIT EQUIPMENT AND CONTROL OPERATIONS AND MAINTENANCE MANUALS TO OWNER WITHIN 90 DAYS OF ISSUANCE OF CERTIFICATE OF OCCUPANCY.

K. ALL DEFICIENCIES SHALL BE CORRECTED AND THE FINAL DOMESTIC WATER HEATING EQUIPMENT FUNCTIONAL TEST RESULTS SUBMITTED WITHIN 90 DAYS OF ISSUANCE OF CERTIFICATE OF OCCUPANCY.
11. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.
12. PROVIDE COMPETENT MANUFACTURER CERTIFIED OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL INSTALLED EQUIPMENT AND TEMPERATURE CONTROLS. TRAINING MUST BE COMPLETED WITHIN 90 DAYS OF THE ISSUANCE OF CERTIFICATE OF OCCUPANCY. SUBMIT SCHEDULE OF TRAINING SESSIONS PRIOR TO FINAL INSPECTION.
13. PROVIDE ACCESS PANELS FOR ALL VALVES OR ANY PIECE OF EQUIPMENT WHEN NECESSARY TO LOCATE ABOVE NON-ACCESSIBLE CEILINGS. SUBJECT TO THE APPROVAL OF THE ARCHITECT. NO EQUIPMENT SHALL BE LOCATED DIRECTLY ABOVE WALLS.
14. PROVIDE ALL HOLES, SLEEVES AND CAULKING FOR INSTALLATION OF THIS WORK. CAULKING TO CONFORM TO FIRE RATING OF WALLS.
15. PROVIDE ISOLATION VALVES FOR ALL PIPING TAKE-OFFS FROM MAINS.
16. PROVIDE ALL CORES, OPENINGS, SLEEVES AND CAULKING FOR INSTALLATION OF THIS WORK. CAULKING TO CONFORM TO FIRE RATING OF WALLS.
17. PIPING SHALL BE ABOVE CEILING AND CLEAR ANY EXISTING PIPING, LIGHTING FIXTURES, DUCTS, ETC.
18. RUN NEW WASTE PIPES AS CLOSE AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB AND VENT PIPING AS CLOSE AS POSSIBLE TO SLAB ABOVE.
19. DISRUPTION OF ANY EXISTING SERVICE SHALL BE COORDINATED WITH THE OWNER AND SHALL BE PERFORMED AT A TIME AND MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.
20. FOR EXACT LOCATION OF PLUMBING FIXTURES, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS.
23. IN ALL CASES WHERE COPPER PIPE CONNECTIONS ARE MADE TO PIPING OR ANY ITEMS OF EQUIPMENT OF DISSIMILAR METAL, PROVIDE DIELECTRIC FITTINGS.
27. PROVIDE AND INSTALL VALVE TAGS AND PIPE LABELS. SUBMIT PROPOSED VALVE TAG AND LABELING NOMENCLATURE FOR REVIEW. PROVIDE OWNER WITH VALVE SCHEDULE IN FORMAT DETERMINED BY OWNER.
28. CLEAN AND DISINFECT DOMESTIC WATER PIPING AS FOLLOWS:

A. PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.

B. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION; IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652.
29. PLUMBING FIXTURES:

A. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED. FIXTURES TO BE CONNECTED, CLEANED AND READY FOR USE. PIPING TO BE PROPERLY SECURED TO WALLS AND STUDS.

B. PROVIDE TRAPS AND SUPPLIES WITH STOPS, MAKE ALL FINAL CONNECTION TO EACH FIXTURE.

C. LAVATORY: PROVIDE WITH THERMOSTATIC MIXING VALVE, CHROME PLATED GRID STRAINER, TAILPIECE, P- TRAP AND ADA OFFSETS.

D. PROVIDE ADA INSULATION PROTECTION OF HOT WATER, COLD WATER AND WASTE PIPING AT LAVATORIES.

E. PROVIDE AND INSTALL WATER HAMMER ARRESTERS IN WATER PIPING ACCORDING TO PDI-WH 201. AIR CHAMBERS ARE NOT PERMITTED.
30. HANGERS: ALL PIPING SHALL BE SUPPORTED AS REQUIRED BY THE ILLINOIS BUILDING CODE.

A. PIPE HANGERS, CLAMPS, ETC. ON HOT PIPING TO BE ON INSIDE OF INSULATION.

B. PIPE HANGERS, CLAMPS, ETC. ON COLD PIPING TO BE ON OUTSIDE OF INSULATION.

PLUMBING FIXTURES SCHEDULE:

(SEE ARCHITECTURAL DRAWINGS FOR FIXTURES MOUNTING HEIGHTS)

PLUMBING CONTRACTOR SHALL COORDINATE ALL SENSOR OPERATING TIMING AND ANGLES WITH OWNER IN FIELD AND PROVIDE ADDITIONAL ADJUSTMENTS AS REQUIRED.

WATER CLOSET "WC"
SLOAN, ST-2459, ACCESSIBLE, WALL-MOUNTING, BACK-OUTLET, EXPOSED 1-1/2" TOP SPUD, VITREOUS-CHINA FIXTURE, ELONGATED BOWL WITH SIPHON-JET, HIGH EFFICIENCY RATED FOR FLUSH VOLUME OF 1.28 GPF. PROVIDE AND INSTALL BEMIS MODEL 2155SSCT SELF-SUSTAINING ELONGATED OPEN SEAT WITH STAINLESS STEEL HINGES, JAY R. SMITH ADJUSTABLE FIXTURE SUPPORT MODEL 0211Y FOR SIPHON JET WATER CLOSETS. PROVIDE WITH TOTO TET11A ECO POWER HIGH EFFICIENCY, SELF-POWERED HYDROELECTRIC FLUSH VALVE SYSTEM, 1.28 GPF, NO MINIMUM DAILY USAGE REQUIREMENT, CHROME PLATED BODY WITH TAMPER-PROOF SCREWS AND SOLID BRONZE VALVE BODY, TRUE MECHANICAL FLUSH OVERRIDE, SMART SENSOR WITH SELF-ADJUSTING DETECTION RANGE, 6-SECOND DETECTION TIME, 1" ANGLE STOP AND 1-1/2" VACUUM BREAKER FOR 1-1/2" TOP SPUD INLET, ADA COMPLIANT. REFER TO ARCHITECTURAL SHEETS FOR MOUNTING HEIGHTS.

ACCESSIBLE WATER CLOSET "AWC"
SAME AS "WC" EXCEPT MOUNT PER ADA HEIGHT REQUIREMENTS.

LAVATORY "LV-2"
AMERICAN STANDARD, OVALYN MODEL 0495.221 UNDERMOUNT LAVATORY, 15-1/16" WIDE, BY 12-1/16" FRONT TO BACK, BY 5-1/2" DEEP BOWL, VITREOUS-CHINA FIXTURE WITH OVERFLOW, PROVIDE WITH TOTO TEL105 ECO POWER, SELF-POWERED HYDROELECTRIC FAUCET SYSTEM, 0.5GPM, NO MINIMUM DAILY USAGE REQUIREMENT, MICRO-SENSOR POSITIONED UNDERNEATH SPOUT HEAD, VANDAL RESISTANT AERATOR HOUSING, CHROME PLATED SPOUT BODY, SINGLE-HOLE MOUNT, COMPLETE WITH SPOUT BODY, CONTROLLER BOX, AND MOUNTING HARDWARE; POWERS LFE480 HYDROGUARD THERMOSTATIC MIXING VALVE; ADA COMPLIANT CHROME PLATED GRID STRAINER; 1-1/4" OFFSET CHROME PLATED CAST BRASS TRAP AND TAILPIECE; 3/8" CHROME PLATED ANGLE STOPS WITH LOOSE KEY ADJUSTMENTS. PROVIDE AND INSTALL TRUEBRO (LAV-GUARD) ADA COMPLIANT INSULATION ON HOT WATER, COLD WATER AND TRAP AND WASTE PIPING. REFER TO ARCHITECTURAL SHEETS FOR MOUNTING LOCATION AND HEIGHT.

GENERAL PLUMBING SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ASC	ABOVE SUSPENDED CEILING	WCO	WALL CLEAN-OUT
CI	CAST IRON	WF	WASH FOUNTAIN
CO	CLEAN-OUT	YCO	YARD CLEAN-OUT
CTC	CLOSE TO CEILING-EXPOSED	YD	YARD DRAIN
CW	COLD WATER SUPPLY	— — — — —	COLD WATER PIPING
DF	DRINKING FOUNTAIN	— — — — —	HOT WATER PIPING
DN	DOWN	— — — — —	HOT WATER RETURN PIPING
DS	DOWNSPOUT	— C —	CONDENSATE DRAIN PIPING
EW	EYE WASH	— S —	SPRINKLER PIPING
EWC	ELECTRIC WATER COOLER	— V —	VENTING PIPING
FCO	FLOOR CLEAN-OUT	— SS —	STM PIPING ASC
FD	FLOOR DRAIN	— — — — —	SAN PIPING ASC
FHB	FREEZE-PROOF HOSE BIBB		PIPING BELOW GRADE
HWB	HOT WATER BOILER	— — — — —	STM PIPING BELOW GRADE
HWR	HOT WATER RETURN	— — — — —	SAN PIPING BELOW GRADE
HWS	HOT WATER SUPPLY	— — — — —	BALL VALVE
LAV	LAVATORY	— — — — —	CIRCUIT SETTER/BAL. VALVE
MB	MOP BASIN	— — — — —	GAS COCK
P/FT	PITCH PER FOOT	— — — — —	CHECK VALVE
PRV	PRESSURE RELIEF VALVE	— — — — —	TEMP. CONTROL VALVE
RD	ROOF DRAIN	— — — — —	SOLENOID VALVE
SAN	SANITARY SEWER	— — — — —	UNION
SD	SHOWER DRAIN	— — — — —	THERMOMETER GAGE
SH	SHOWER HEAD	— — — — —	SHOWER HEAD
SK	SINK	— — — — —	FREEZE PROOF HOSE BIBB
SMH	SANITARY SEWER MANHOLE	— — — — —	ELBOW UP
SS	SERVICE SINK	— — — — —	ELBOW DOWN
STM	STORM SEWER	— — — — —	CAP
STMH	STORM SEWER MANHOLE	— — — — —	CHROME/DROP SPRINKLR HEAD
TRV	TEMPERATURE RELIEF VALVE	— — — — —	BRASS/UPRIGHT SPRINKLR HEAD
TW	TEMPERED WATER	— — — — —	SHOCK ARRESTER W/ ISOLATION VALVE
UR	URINAL	— — — — —	CLEANOUT
VTR	VENT THROUGH ROOF	— — — — —	INLINE CIRC. PUMP
WC	WATER CLOSET	— — — — —	CONNECTION POINT BETWEEN NEW AND EXISTING

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SKOKIE, IL
60077



7701 LINCOLN AVE,
SKOKIE, IL
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KEY PLAN

ISSUE CHART

T	ISSUE FOR BID	09 JUN 25
DATE	ISSUE	DATE
Job Number	021075.001	

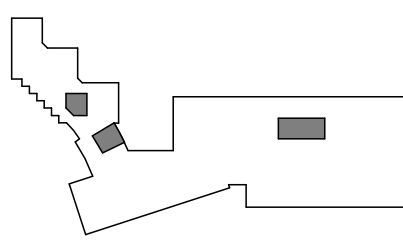
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PLUMBING GENERAL
NOTES AND
SCHEDULES

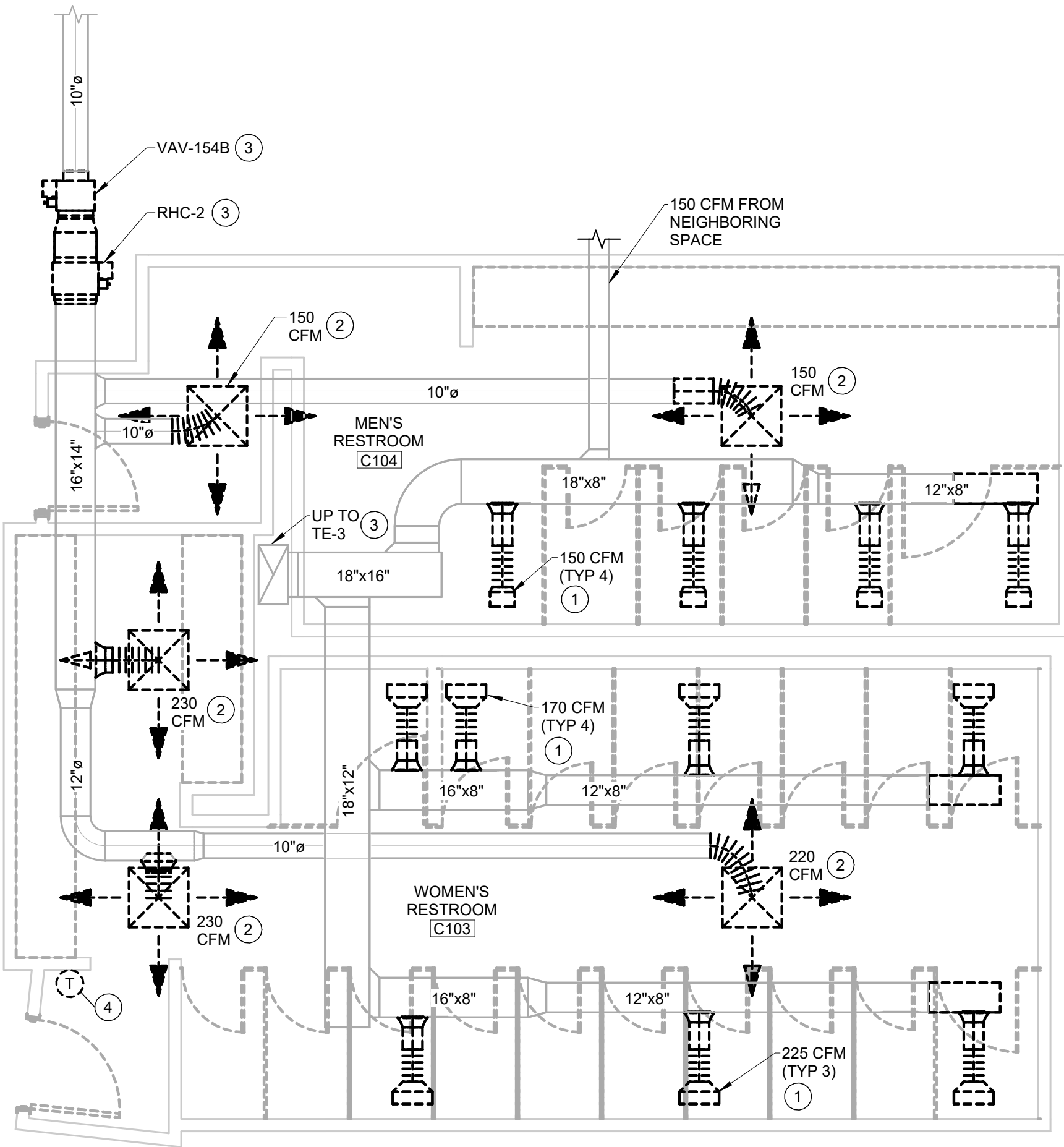
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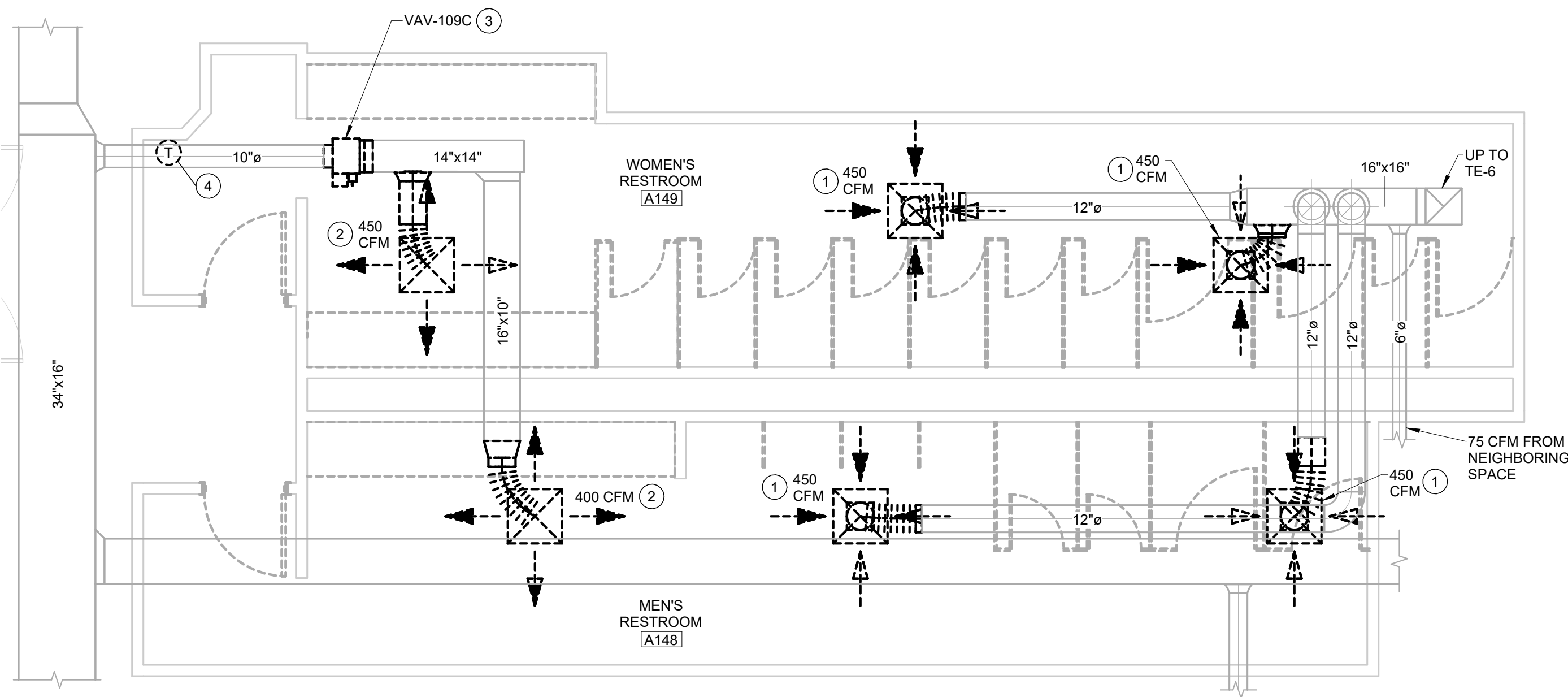


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DATE	ISSUE	DATE
Job Number	021075.001	



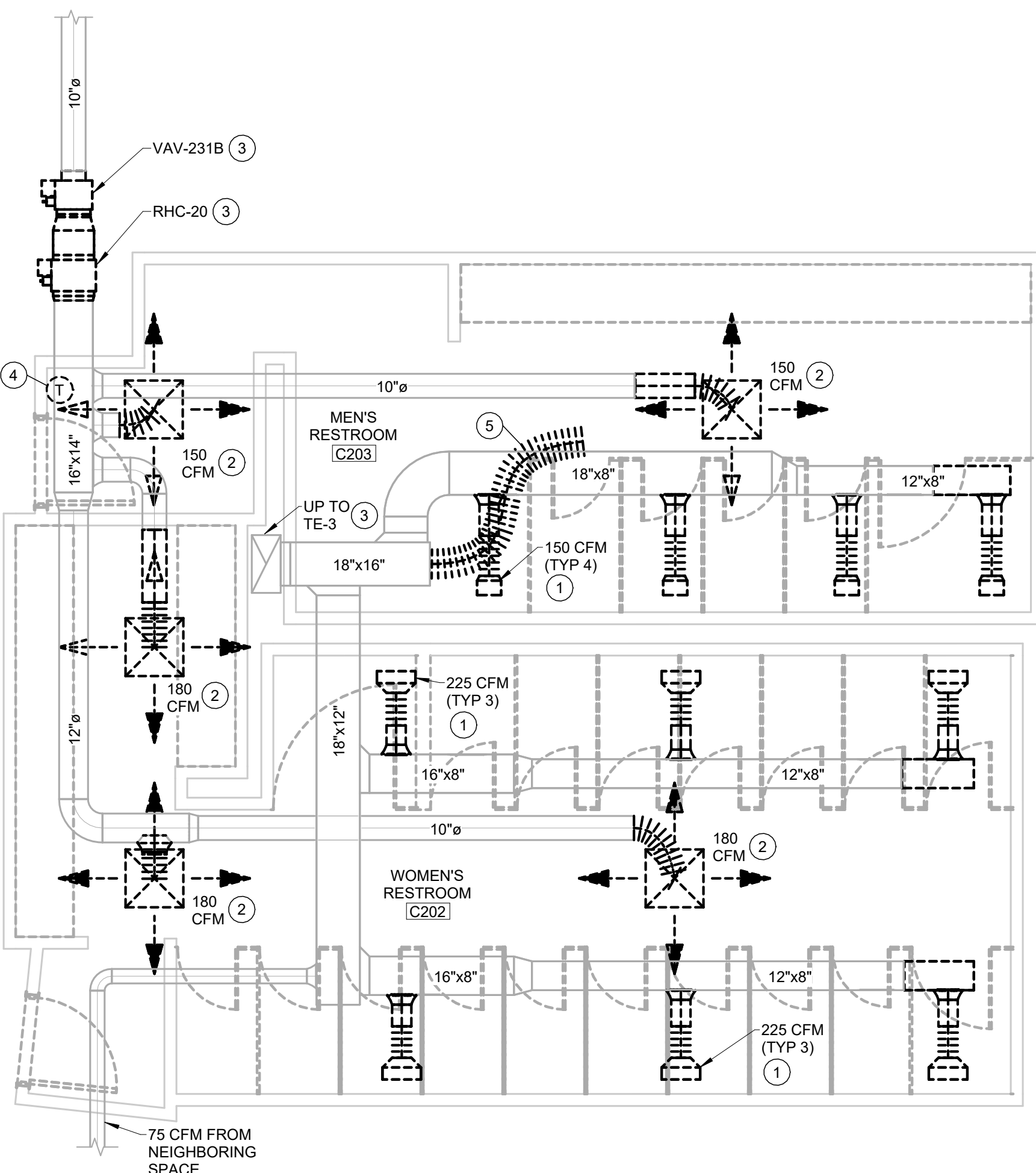
MECHANICAL DEMOLITION PLAN -
C103/104

1
1/4" = 1'-0"



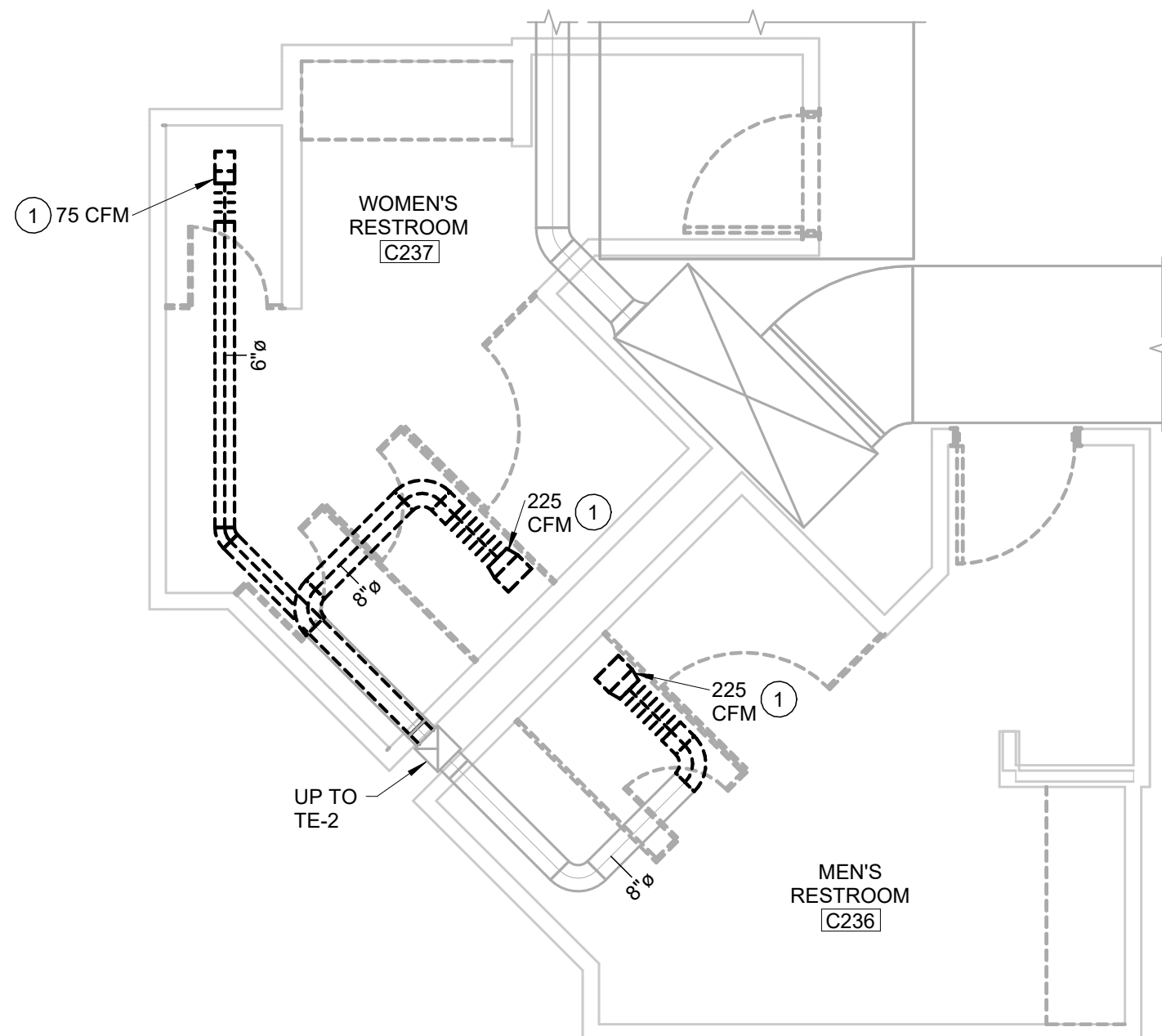
MECHANICAL DEMOLITION PLAN -
A148/149

2
1/4" = 1'-0"



MECHANICAL DEMOLITION PLAN -
C202/203

3
1/4" = 1'-0"

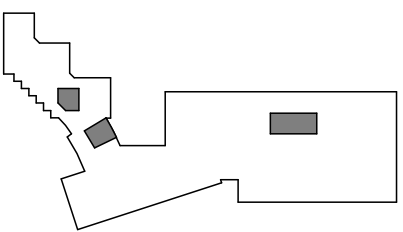


MECHANICAL DEMOLITION PLAN -
C236/237

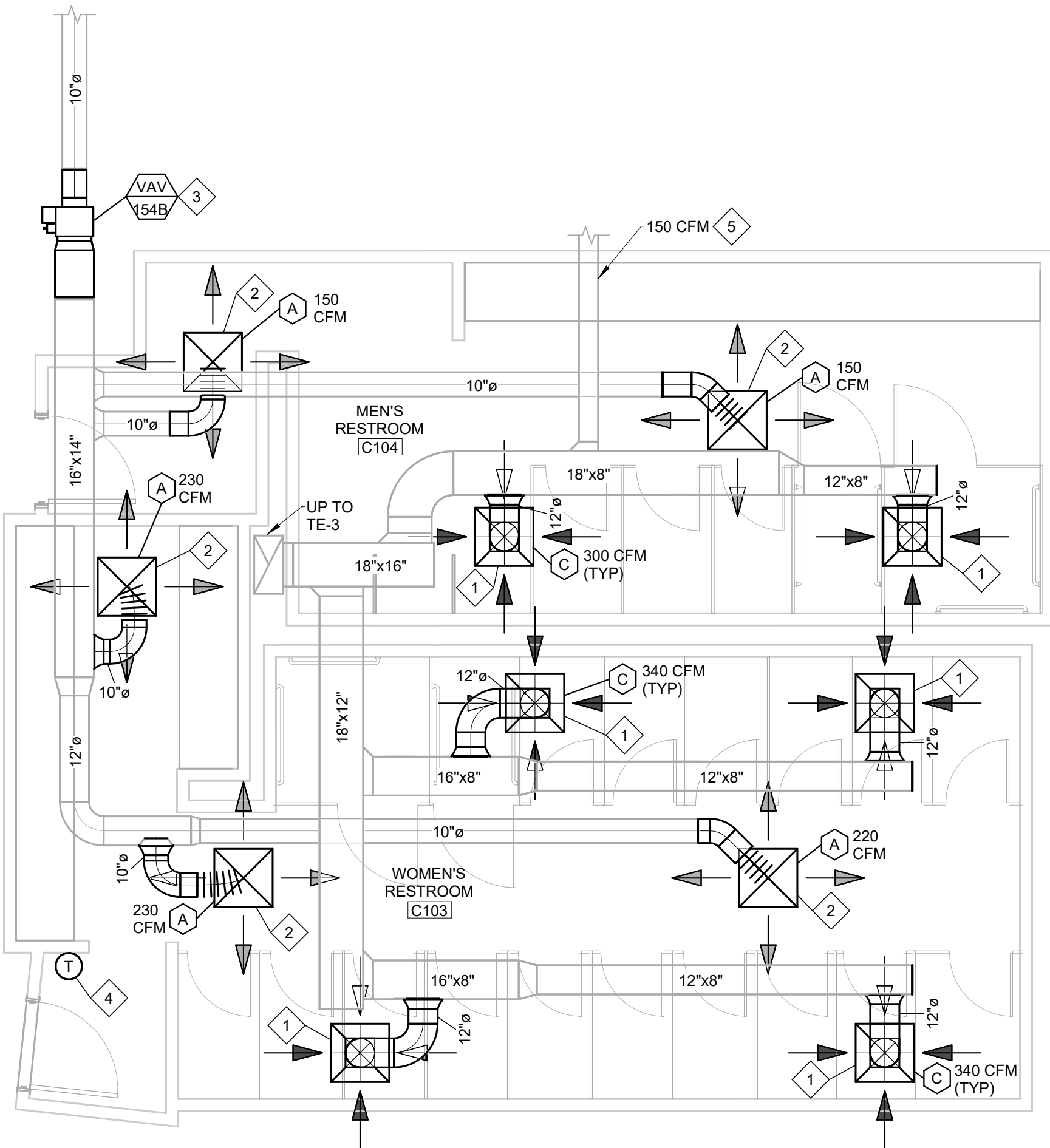
4
1/4" = 1'-0"

MECHANICAL DEMOLITION NOTES:

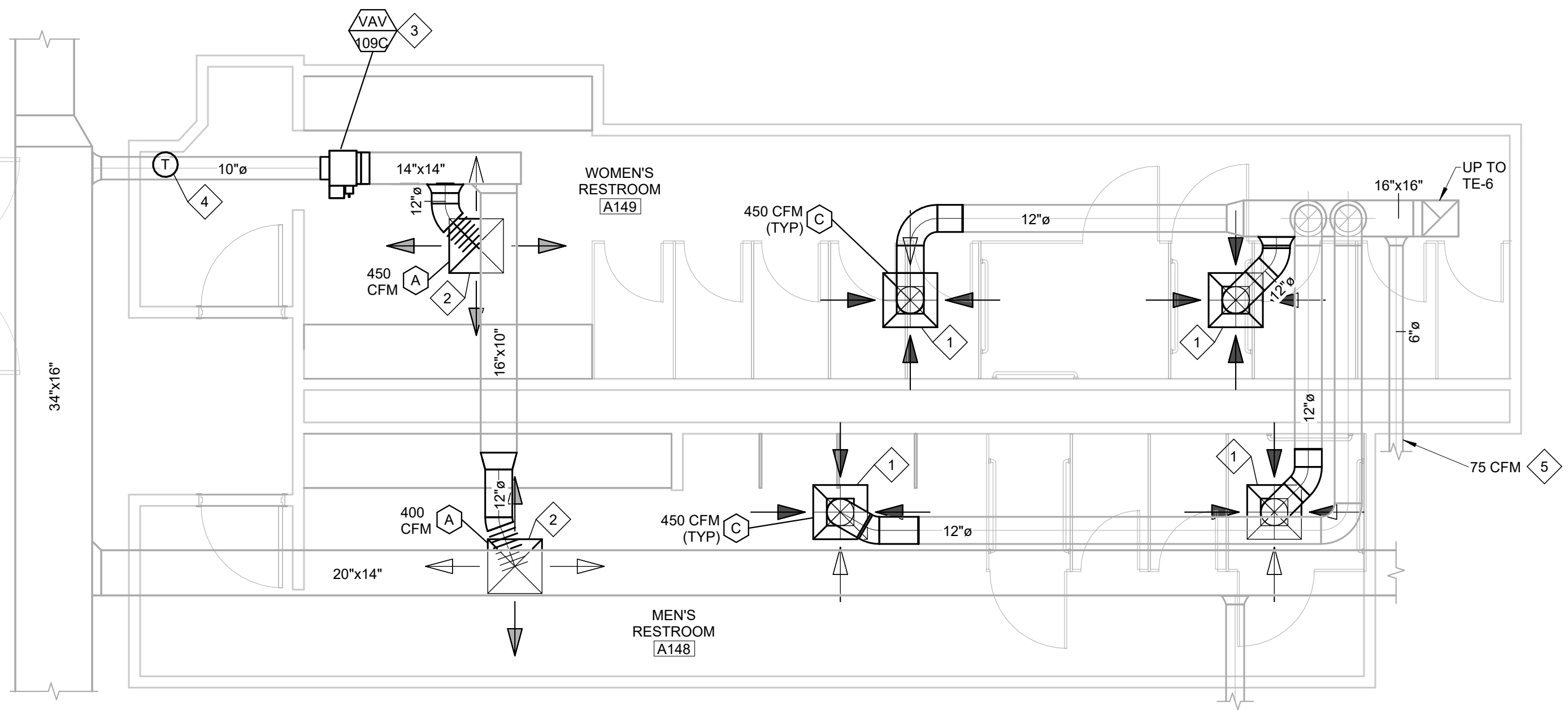
- 1 PRIOR TO DEMOLITION, FIELD MEASURE EXISTING TOILET ROOM AIR DEVICE AIRFLOWS. FIELD VERIFY EXISTING EXHAUST FAN OPERATION. REMOVE TOILET ROOM EXHAUST AIR DEVICES AND BRANCH DUCTS AS INDICATED AND CAP. FIELD VERIFY EXISTING ROUTING AND DEMOLITION.
- 2 PRIOR TO DEMOLITION, FIELD MEASURE EXISTING TOILET ROOM AIR DEVICE AIRFLOWS. REMOVE TOILET ROOM SUPPLY AIR DEVICES AND BRANCH DUCTS AS INDICATED AND CAP. FIELD VERIFY EXISTING ROUTING AND DEMOLITION.
- 3 REMOVE VAV AND DUCT HEATER WHERE APPLICABLE AS INDICATED. REMOVE COMPLETE WITH ALL HARDWARE AND CONTROLS.
- 4 PRIOR TO DEMOLITION, CONFIRM ALL EQUIPMENT (VAV, DUCT HEATER, BASEBOARD HEAT, ETC.) SERVED BY EXISTING THERMOSTAT. REMOVE THERMOSTAT AT LOCATION INDICATED.
- 5 OPEN ENDED FLEX DUCT OBSERVED ABOVE CEILING. REMOVE FLEX DUCT AND CAP AT POINT OF DEMOLITION FROM MAIN.



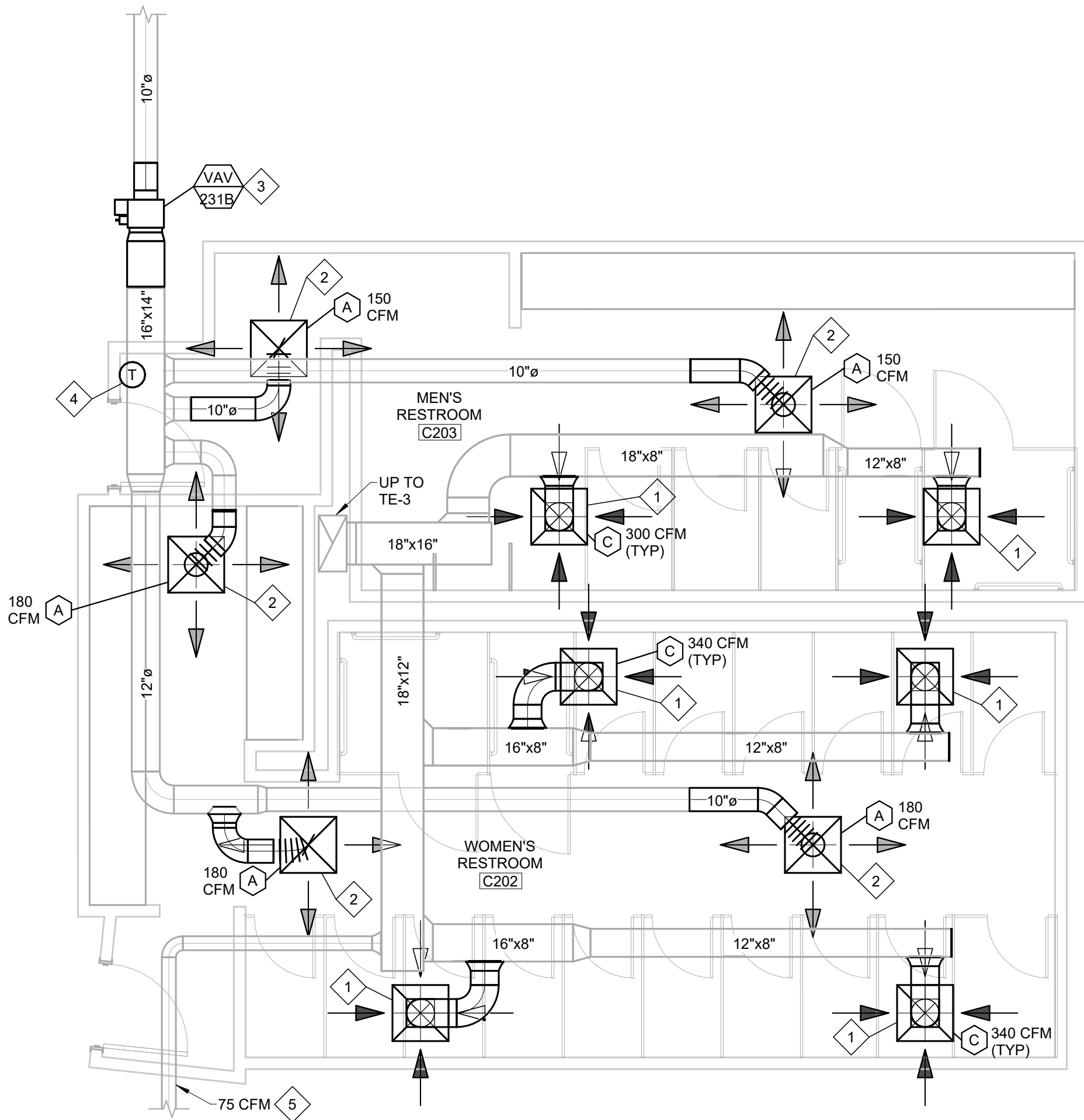
1	ISSUE FOR BID	09 JUN 25
DATE	DATE	DATE
Job Number	021075.001	



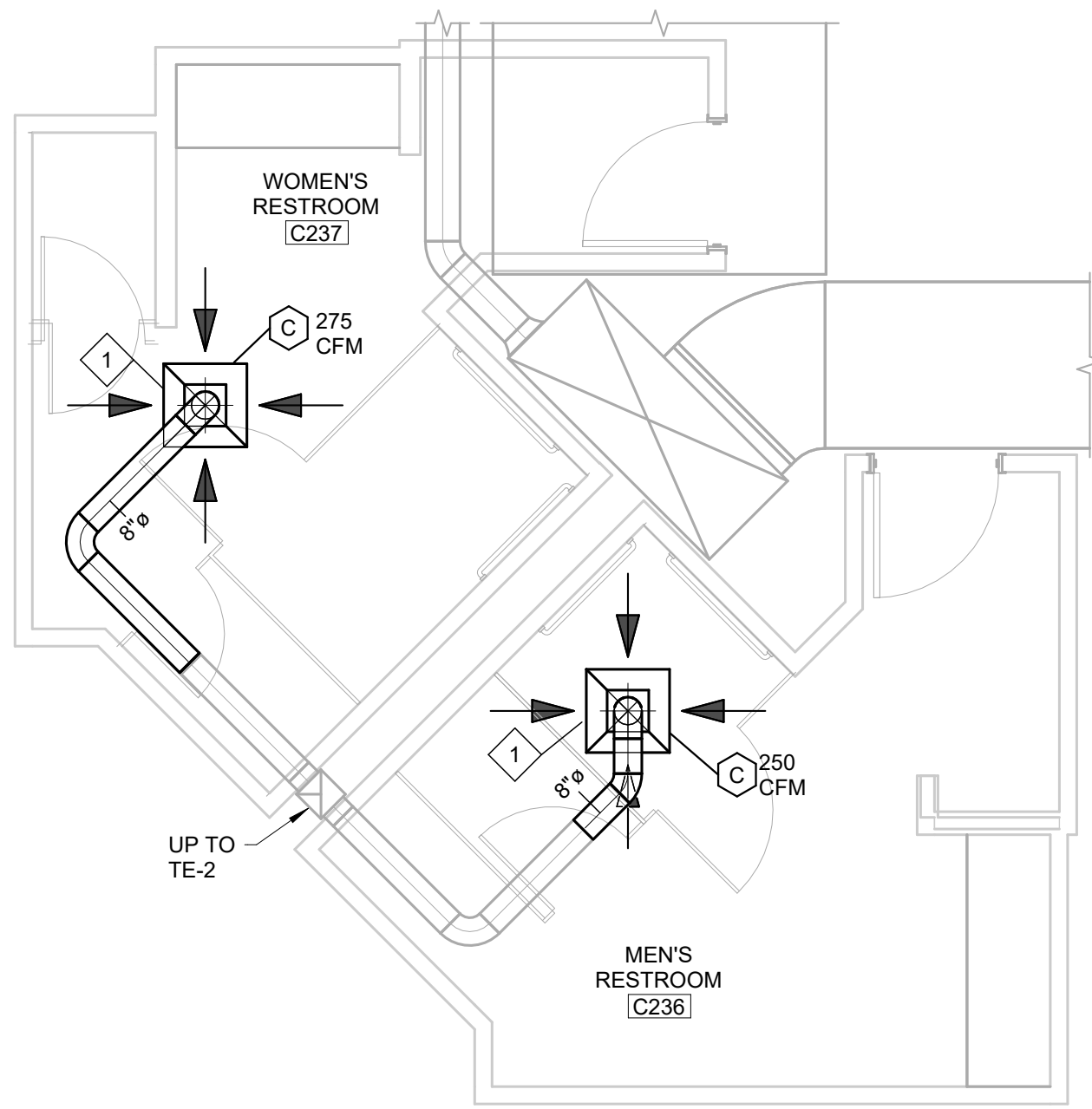
1 MECHANICAL PLAN - C103/104
1/4" = 1'-0"



2 MECHANICAL PLAN - A148/149
1/4" = 1'-0"



3 MECHANICAL PLAN - C202/203
1/4" = 1'-0"



4 MECHANICAL PLAN - C236/237
1/4" = 1'-0"

MECHANICAL INSTALLATION NOTES:

- 1 PROVIDE EXHAUST AIR DEVICE AS SHOWN. COORDINATE FINAL LOCATION AND MOUNTING WITH ARCHITECTURAL CEILING PLAN. EXTEND AND MAKE CONNECTION TO EXISTING EXHAUST DUCTS AS INDICATED. FIELD VERIFY ALL ROUTING AND CONNECTION TO EXISTING. BALANCE TO CFM INDICATED.
- 2 PROVIDE SUPPLY AIR DEVICE AS SHOWN. COORDINATE FINAL LOCATION AND MOUNTING WITH ARCHITECTURAL CEILING PLAN. EXTEND AND MAKE CONNECTION TO EXISTING SUPPLY DUCTS AS INDICATED. FIELD VERIFY ALL ROUTING AND CONNECTION TO EXISTING. BALANCE TO CFM INDICATED.
- 3 PROVIDE VAV AT LOCATION SHOWN. INSTALL PER ALL MANUFACTURERS RECOMMENDATIONS. MODIFY DUCTS AS NECESSARY TO MAKE CONNECTION TO EXISTING. FIELD VERIFY MOUNTING LOCATION. MAINTAIN ALL REQUIRED OPERATIONAL AND SERVICE CLEARANCES.
- 4 PROVIDE THERMOSTAT AT LOCATION SHOWN. COORDINATE INTEGRATION INTO EXISTING BMS AND CONTROLS OF ALL EXISTING AND NEW EQUIPMENT.
- 5 REBALANCE EXHAUST BRANCH FROM NEIGHBORING SPACE TO CFM INDICATED.

MECHANICAL GENERAL NOTES:

- 1)

CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID.
A) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CHASES, DUCTWORK AND PIPE SIZES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THE CONTRACTOR FAILING TO DO SO.
B) CONTRACTOR SHALL FIELD VERIFY LOCATIONS, SIZES AND CAPACITIES OF ALL EQUIPMENT, APPARATUS AND DEVICES, INCLUDING BUT NOT LIMITED TO TERMINAL UNITS, FANS, CONVECTORS, FANS, ETC.
C) CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH PROCESS FOR ACCESSING SITE, ROOF, FLOOR AND SPACE. CONTRACTOR SHALL NOT CUT ANY HOLES, IN FACADE, ROOF, FLOORS, ETC. UNLESS COMPLETELY NECESSARY AND WITH PRIOR APPROVAL FROM THE OWNER AND ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCLUDING PATCHING AND REPAIR REQUIRED TO RETURN TO ORIGINAL CONDITION.
- 2)

THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND INDICATE APPROXIMATE LOCATION OF DUCTWORK, PIPING AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATIONS, SIZES AND ROUTING OF THE EXISTING DUCTS, PIPING, ETC.
A) CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT AND MATERIALS PERTAINING TO HIS CONTRACT AS SPECIFIED OR AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK. OWNER TO BE PROVIDED WITH RIGHT OF REFUSAL FOR SALVAGE VALUE OR ATTIC STOCK. IF OWNER REFUSES CONTRACTOR SHALL REMOVE ALL DEMOLISHED EQUIPMENT AND MATERIALS FROM THE SITE AND PROPERLY DISPOSE.
B) CONTRACTOR SHALL PROVIDE LABOR, MATERIALS AND EQUIPMENT AND INSTALL SAME AS REQUIRED TO ACCOMPLISH WORK AND PROVIDE COMPLETE AND FULLY FUNCTIONING SYSTEMS.
- 3)

CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
- 4)

CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY EXISTING MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC., AT NO ADDITIONAL COST.
- 5)

ALL WORK SHALL BE IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE AND THE LATEST EDITION OF THE ILLINOIS ENERGY CONSERVATION CODE. THESE CODES SHALL BE FOLLOWED AS MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY LOCAL CODES.
- 6)

ALL EQUIPMENT, MATERIALS, ETC. SHALL COMPLY WITH THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
- 7)

ALL PERMITS, FEES, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 8)

ALL EQUIPMENT, TERMINAL UNITS, REHEAT COILS, DAMPERS, DIFFUSERS AND GRILLES SHALL BE UL LISTED.
- 9)

SUBMITTALS
A) SUBMIT EQUIPMENT SPECIFICATIONS AND CUTS FOR REVIEW AND APPROVAL.
B) SUBMIT ASSEMBLED PRINTED OPERATION AND MAINTENANCE MANUALS OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS IN ACCORDANCE WITH SECTION C408.1.1 OF THE IECC.
C) SUBMIT COORDINATED SHOP DRAWINGS FOR REVIEW. THE SHOP DRAWINGS SHALL INDICATE PIPING, DUCT, DIFFUSER, LIGHT FIXTURE, STRUCTURE AND THERMOSTAT LOCATIONS AND MUST BE SUBMITTED PRIOR TO FABRICATION AND INSTALLATION.
D) CONTRACTOR SHALL SUBMIT CERTIFIED TEST AND BALANCE REPORTS FOR APPROVAL PRIOR TO FINAL INSPECTION BY AHJ.
E) SUBMIT EQUIPMENT FUNCTIONAL TEST RESULTS, CONTROLS FUNCTIONAL TEST RESULTS AND ECONOMIZER FUNCTIONAL TEST RESULTS PRIOR TO FINAL INSPECTION BY AHJ.
F) SUBMIT ITEMIZED DEFICIENCIES LIST AND DEFERRED TESTING LIST PRIOR TO FINAL INSPECTION BY AHJ.
G) SUBMIT SCHEDULE FOR ALL REQUIRED TRAINING PRIOR TO FINAL INSPECTION BY AHJ.
H) SUBMIT AS-BUILT DRAWING INDICATING A NUMBERING SYSTEM WHICH CORRELATES PLAN WITH BALANCE REPORT, VAV BOXES, ETC.
I) SUBMIT AS-BUILT DRAWINGS FOR DUCTWORK AND PIPING, INCLUDING THERMOSTAT LOCATIONS.
J) SUBMIT EQUIPMENT AND CONTROL OPERATIONS AND MAINTENANCE MANUALS TO OWNER WITHIN 90 DAYS OF ISSUANCE OF CERTIFICATE OF OCCUPANCY.
K) ALL DEFICIENCIES SHALL BE CORRECTED AND THE FUNCTIONAL TEST RESULTS SUBMITTED WITHIN 90 DAYS OF ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- 10)

CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.
- 11)

PROVIDE COMPETENT MANUFACTURER CERTIFIED OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL INSTALLED EQUIPMENT AND TEMPERATURE CONTROLS. TRAINING MUST BE COMPLETED WITHIN 90 DAYS OF THE ISSUANCE OF CERTIFICATE OF OCCUPANCY. SUBMIT SCHEDULE OF TRAINING SESSIONS PRIOR TO FINAL INSPECTION BY AHJ.
- 12)

THE DRAWING INDICATES GENERAL CHARACTER AND LOCATION OF WORK INCLUDED, BUT HAVING MINOR SPECIALTIES OMITTED WHICH ARE TO BE PROVIDED AND INSTALLED WITHOUT EXTRA COST.
- 13)

PROVIDE ISOLATION VALVES FOR ALL PIPING TAKE-OFFS FROM MAINS.
- 14)

PROVIDE ALL CORES, OPENINGS, SLEEVES AND CAULKING FOR INSTALLATION OF THIS WORK. CAULKING TO CONFORM TO FIRE RATINGS OF WALLS.
- 15)

VERIFY EXACT LOCATION OF TEMPERATURE SENSORS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- 16)

PROVIDE AND INSTALL VALVE TAGS, PIPE LABELS AND DUCTWORK LABELS. SUBMIT PROPOSED VALVE TAG AND LABELING NOMENCLATURE FOR REVIEW. PROVIDE OWNER WITH VALVE SCHEDULE IN FORMAT DETERMINED BY OWNER.
- 17)

CONTRACTOR SHALL CUT ALL OPENINGS REQUIRED FOR HIS WORK. ALL OPENINGS SHALL BE SEALED AIR TIGHT. CONTRACTOR SHALL ALSO PATCH AND SEAL ANY EXISTING OPENINGS LEFT UNUSED AS A RESULT OF THIS WORK.
- 18)

ALL NEW CONTROLS SHALL BE DDC. EXTEND EXISTING SYSTEM AS REQUIRED FOR NEW WORK. PROVIDE AND INSTALL TEMPERATURE SENSORS, CONDUIT, CABLING AND NECESSARY LOCAL AND NETWORK CONTROLLERS REQUIRED FOR A FULLY OPERATING SYSTEM. INCORPORATE NEW WORK, USING OWNER STANDARD SEQUENCES FOR SIMILAR SYSTEMS AND PROVIDE NEW GRAPHICS, ALARMS, ETC. TO MEET OWNER'S STANDARD.
- 19)

COMMISSIONING PLAN.
A) CERTIFY THAT HVAC&R SYSTEMS, SUBSYSTEMS, AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED, AND STARTED AND ARE OPERATING ACCORDING TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AND SUBMITTALS.
B) CERTIFY THAT HVAC&R INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED, THAT THEY ARE OPERATING ACCORDING TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AND SUBMITTALS, AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.
C) CERTIFY THAT TAB PROCEDURES HAVE BEEN COMPLETED AND THAT TAB REPORTS HAVE BEEN SUBMITTED, DISCREPANCIES CORRECTED, AND CORRECTIVE WORK APPROVED.
D) SET SYSTEMS, SUBSYSTEMS, AND EQUIPMENT INTO OPERATING MODE TO BE TESTED ACCORDING TO APPROVED TEST PROCEDURES (E.G., NORMAL SHUTDOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, UNOCCUPIED CYCLE, EMERGENCY POWER, AND ALARM CONDITIONS).
E) MEASURE CAPACITIES AND EFFECTIVENESS OF SYSTEMS, ASSEMBLIES, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS, INCLUDING OPERATIONAL AND CONTROL FUNCTIONS TO VERIFY COMPLIANCE WITH ACCEPTANCE CRITERIA.
F) TEST SYSTEMS, ASSEMBLIES, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS OPERATING MODES, INTERLOCKS, CONTROL RESPONSES, AND RESPONSES TO ABNORMAL OR EMERGENCY CONDITIONS, AND RESPONSE ACCORDING TO ACCEPTANCE CRITERIA.
- 20)

CONSTRUCTION CHECKLISTS: PREPARE AND SUBMIT DETAILED CONSTRUCTION CHECKLISTS FOR HVAC&R SYSTEMS, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS.
A) CONTRIBUTORS TO THE DEVELOPMENT OF CONSTRUCTION CHECKLISTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
(1) HVAC&R SYSTEMS AND EQUIPMENT INSTALLERS.
(2) TAB TECHNICIANS
(3) HVAC&R INSTRUMENTATION AND CONTROLS INSTALLERS.
- 21)

PERFORM TESTS USING DESIGN CONDITIONS, WHENEVER POSSIBLE.
A) SIMULATED CONDITIONS MAY, WITH APPROVAL OF ARCHITECT, BE IMPOSED USING AN ARTIFICIAL LOAD WHEN IT IS IMPRACTICAL TO TEST UNDER DESIGN CONDITIONS. BEFORE SIMULATING CONDITIONS, CALIBRATE TESTING INSTRUMENTS, PROVIDE EQUIPMENT TO SIMULATE LOADS. SET SIMULATED CONDITIONS AS DIRECTED BY COMMISSIONING COORDINATOR AND DOCUMENT SIMULATED CONDITIONS AND METHODS OF SIMULATION. AFTER TESTS, RETURN CONFIGURATIONS AND SETTINGS TO NORMAL OPERATING CONDITIONS.
B) COMMISSIONING TEST PROCEDURES MAY DIRECT THAT SET POINTS BE ALTERED WHEN SIMULATING CONDITIONS IS IMPRACTICAL.
C) COMMISSIONING TEST PROCEDURES MAY DIRECT THAT SENSOR VALUES BE ALTERED WITH A SIGNAL, GENERATOR WHEN DESIGN OR SIMULATING CONDITIONS AND ALTERING SET POINTS ARE IMPRACTICAL.
- 22)

IF TESTS CANNOT BE COMPLETED BECAUSE OF A DEFICIENCY OUTSIDE THE SCOPE OF THE HVAC&R SYSTEM, DOCUMENT THE DEFICIENCY AND REPORT IT TO OWNER. AFTER DEFICIENCIES ARE RESOLVED, RESCHEDULE TESTS.
- 23)

IF SEASONAL TESTING IS SPECIFIED, COMPLETE APPROPRIATE INITIAL PERFORMANCE TESTS AND DOCUMENTATION AND SCHEDULE SEASONAL TESTS.
- 24)

COORDINATE SCHEDULE WITH, AND PERFORM THE FOLLOWING ACTIVITIES AT THE DIRECTION OF, COMMISSIONING COORDINATOR.
- 25)

COMPLY WITH CONSTRUCTION CHECKLIST REQUIREMENTS, INCLUDING MATERIAL VERIFICATION, INSTALLATION CHECKS, START-UP, AND PERFORMANCE TESTS REQUIREMENTS SPECIFIED IN SECTIONS SPECIFYING HVAC SYSTEMS AND EQUIPMENT.
- 26)

PROVIDE TECHNICIANS, INSTRUMENTATION, TOOLS, AND EQUIPMENT TO COMPLETE AND DOCUMENT THE FOLLOWING:
A) PERFORMANCE TESTS.
B) DEMONSTRATION OF A SAMPLE OF PERFORMANCE TESTS.
C) COMMISSIONING TESTS.
D) COMMISSIONING TEST DEMONSTRATIONS.
- 27)

COMMISSIONING AND COMPLETION REQUIREMENTS: PRIOR TO FINAL INSPECTION BY AUTHORITY HAVING JURISDICTION SUBMIT THE FOLLOWING FOR REVIEW BY THE ENGINEER.
A) HVAC SYSTEMS TEST AND BALANCE REPORT.
B) FUNCTIONAL PERFORMANCE TESTING REPORTS FOR THE FOLLOWING:
(1) HVAC EQUIPMENT SHALL UNDERGO FUNCTIONAL PERFORMANCE TESTING TO DEMONSTRATE THAT THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS AND SYSTEM TO SYSTEM INTERFACING ARE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. TESTING SHALL INCLUDE ALL MODES AS DESCRIBED IN THE SEQUENCE OF OPERATION AT FULL LOAD AND PART LOAD, REDUNDANT MODE, PERFORMANCE OF ALARMS AND MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER.
(2) HVAC CONTROL SYSTEM SHALL BE TESTED TO DOCUMENT PROPER CALIBRATION AND ADJUSTMENT AND THAT THE SYSTEMS OPERATE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO DOCUMENT OPERATION IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
(3) AIR ECONOMIZERS SHALL BE TESTED TO DOCUMENT PROPER OPERATION IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
C) ITEMIZED LIST OF DEFICIENCIES FOUND DURING TESTING THAT HAVE NOT BEEN CORRECTED.
D) DEFERRED TESTS THAT COULD NOT BE PERFORMED BECAUSE OF CLIMATIC CONDITIONS AND THE CLIMATIC CONDITIONS REQUIRED FOR DEFERRED TESTS.
E) FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING COMMISSIONING PROCESS AND MEASURABLE CRITERIA FOR TEST ACCEPTANCE.
F) RECORD OF TRANSMITTANCE OF ALL OPERATION AND MAINTENANCE MANUALS

MECHANICAL GENERAL DEMOLITION NOTES:

NOTES RE: EXISTING CONDITIONS

1.

VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO BIDDING. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
2.

MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL MECHANICAL AND ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
3.

DISCONNECT AT SOURCE AND REMOVE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT AND ALL OTHER MECHANICAL ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE OR RETURNED TO THE OWNER'S STOCK AT THE DISCRETION OF THE OWNER.
4.

DISCONNECT, REMOVE AND RELOCATE EXISTING MECHANICAL MATERIALS AND EQUIPMENT, AND ALL OTHER MECHANICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE LOCATIONS AS DIRECTED. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW LOCATIONS.
5.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN MECHANICAL OPERATION AT ALL TIMES DURING THE ENTIRE CONSTRUCTION PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE. PRIOR NOTICE SHALL BE GIVEN.
6.

COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
7.

ALL CUTTING AND PATCHING AS REQUIRED FOR WORK TO BE BY THE CONTRACTOR.
8.

WHERE EXISTING CONDUITS HAVE BEEN MADE OBSOLETE BY THESE ALTERATIONS AND ADDITIONS AND IT IS IMPRACTICAL TO REMOVE SAME, CONTRACTOR SHALL:
a) CUT PIPING, CONDUITS AND DUCTS OFF AT SLAB OR WALL LINE.
b) CAP ALL OBSOLETE PIPING AND DUCTWORK.
9.

WHERE THE EXISTING PIPING, CONDUIT OR DUCTWORK SERVING ANY EXISTING MECHANICAL EQUIPMENT IN AREA OF EXISTING BUILDING NOT BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPES OR DUCTWORK.
10.

CONTRACTOR IS RESPONSIBLE FOR ISOLATING, DRAINING, REFILLING & VENTING OF ALL SYSTEMS REQUIRED FOR EXECUTION OF WORK. COORDINATE PROCEDURES WITH OWNER.

NOTES RE: INSPECTING EXISTING BUILDING

1.

THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
2.

WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
3.

CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
4.

CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ARCHITECT ANY LACK OF ANY NECESSARY SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT PRIOR TO BIDDING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE NEGLECTS TO DO SO.

LEGENDS:

- INDICATES EXISTING TO REMAIN.
- INDICATES EXISTING TO BE DISCONNECTED AND REMOVED.
- E.T.R.

EXISTING TO REMAIN.

CONTROLS REQUIREMENTS:

CONTROLS FOR ALL NEW EQUIPMENT ARE TO BE FULLY INTEGRATED INTO EXISTING BUILDING CONTROLS SYSTEMS.

REMOVE AND REINSTALL CEILINGS AS NEEDED FOR CONTROLS AND CONTROLS CABLING. ALL CONTROLS CABLING AND WIRING TO BE PLENUM RATED. PROVIDE 120V CONNECTIONS TO NEW CONTROLS EQUIPMENT AS REQUIRED. PROVIDE SWITCHBOARD CONNECTION, COORDINATE REQUIREMENTS WITH ELECTRICAL.

GENERAL CONTROLS NOTES:

1.

ALL SYSTEMS NEW AND EXISTING PROVIDED WITH NEW CONTROLLER AND CONTROLS.
2.

ALL SYSTEMS NEW AND EXISTING PROVIDED WITH NEW CONTROLLERS AND CONTROLS TO BE BALANCED FOR PROPER AIR FLOWS.
3.

COORDINATE ALL ROOM TEMPERATURE SENSOR REQUIREMENTS AND INSTALLATION LOCATIONS WITH SCHOOL PREFERENCES.
4.

ALL CONTROLS ASSOCIATED WITH DEMOLISHED EQUIPMENT ARE TO BE FULLY REMOVED.

Perkins&Will

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1 312.755.0770
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CONSULTANTS

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MECHANICAL SERVICES ASSOC. CORP.
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CRYSTAL LAKE, IL 60014

ISSUE FOR BID JUNE 9, 2025

PROJECT
OAKTON_SKOKIE_TOILET
RENO

7701 LINCOLN AVE,
SKOKIE, IL
60077



7701 LINCOLN AVE,
SKOKIE, IL
60077

KEY PLAN

ISSUE CHART

1	ISSUE FOR BID	09 JUN 25
DATE	ISSUE	DATE
Job Number	021075.001	

TITLE

GENERAL MECHANICAL
NOTES

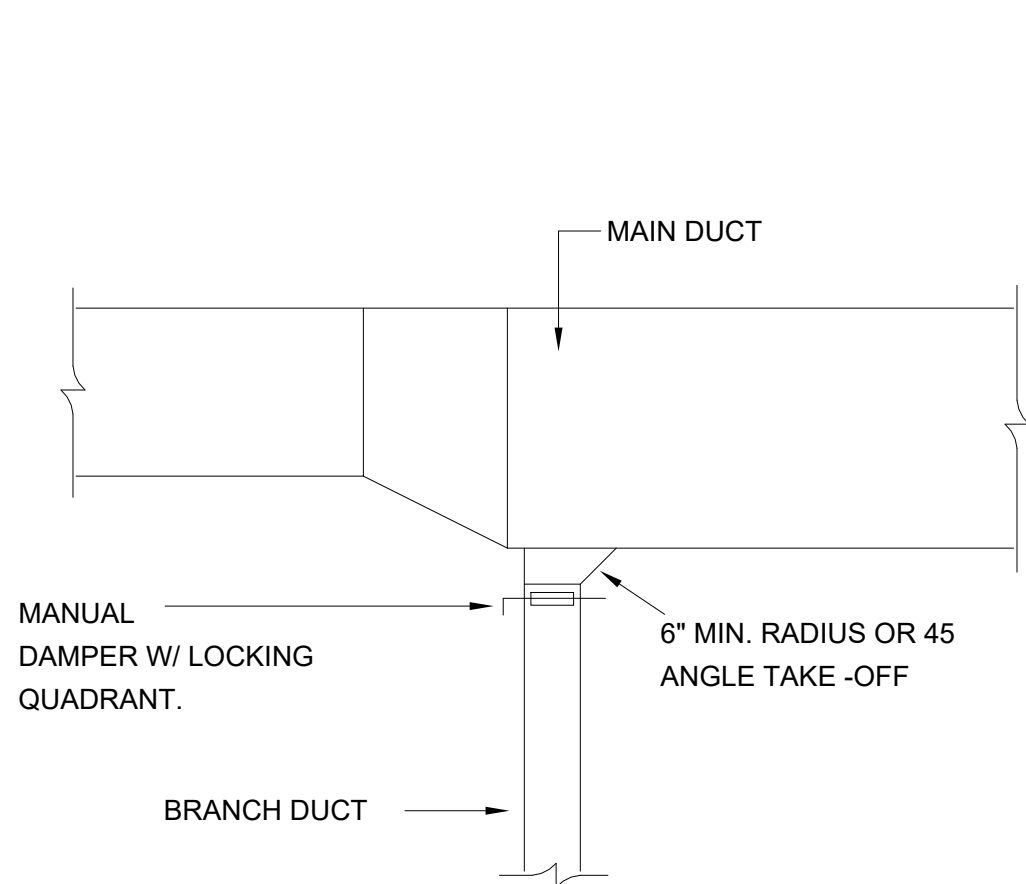
SHEET NUMBER

M20-00

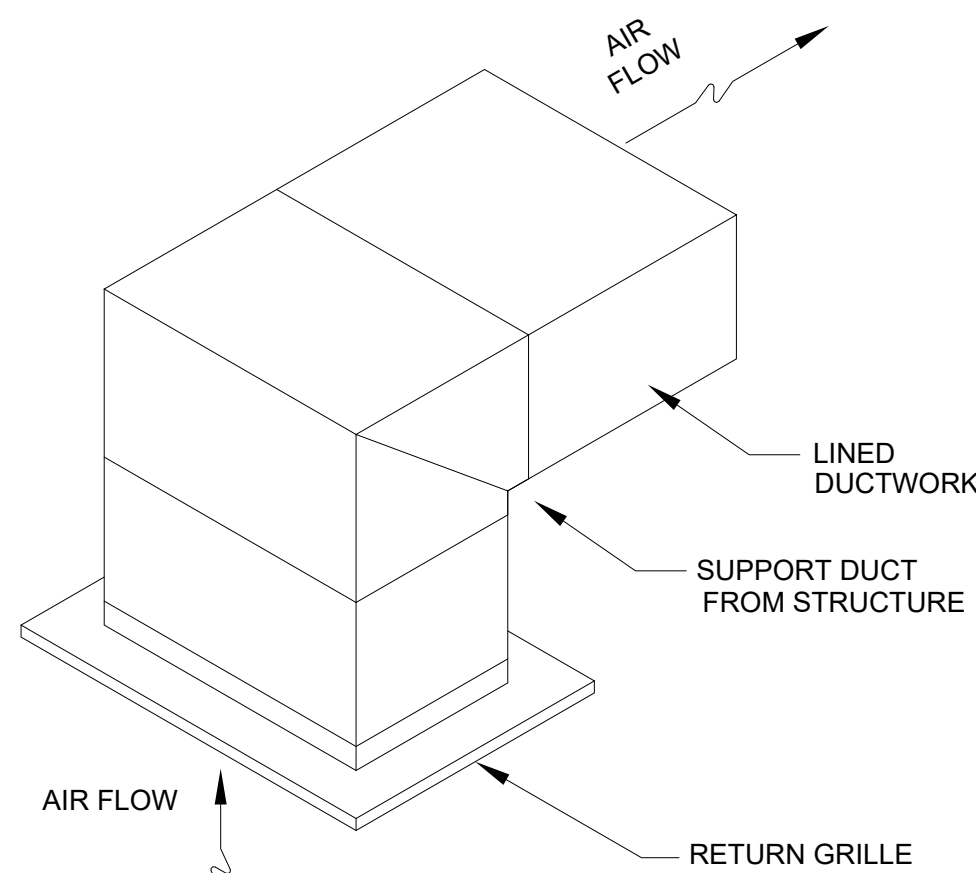
GENERAL MECHANICAL SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CFM	CUBIC FEET PER MINUTE		SUPPLY DUCT
CH	CABINET HEATER		RETURN/EXHAUST DUCT
EA	EXHAUST AIR		OUTSIDE AIR
EF	EXHAUST FAN		REINFORCED/INSULATED FLEX
FC	FLEX CONNECTION		SUPPLY DIFFUSER
RA	RETURN AIR		RETURN REGISTER
SA	SUPPLY AIR		45 DEGREE TAP
OA	OUTSIDE AIR		CAP
	ROOM TEMP SENSOR		GATE VALVE
	HUMIDISTAT		B & G CIRCUIT SETTER
UH	UNIT HEATER		CHECK VALVE
VD	VOLUME DAMPER		GAS COCK/ PLUG COCK
WG	WITH GUARD		GLOBE VALVE
O.A.C.	OPENING ABOVE CEILING		TEMP. CONTROL VALVE
	SUPPLY UP - DOWN		WELDED ELBOW
	RETURN/EXHAUST UP - DN.		BUTTERFLY VALVE
	OUTSIDE AIR UP - DOWN		STRAINER
CWS	CONDENSER WATER SUPPLY		ELBOW UP
CWR	CONDENSER WATER RETURN		ELBOW DOWN

VARIABLE AIR VOLUME BOX SCHEDULE										
TAG	AREA SERVED	MANUFACTURER MODEL NUMBER	INLET SIZE	VALVE			ELECT. REHEAT COIL			REMARKS
				MAX.	MIN.	HEAT	K.W.	STEPS	VOLTAGE	
	TOILETS A148/149	TITUS DESV	10	850	0	-	-	-	-	1, 3, 4
	TOILETS C103/104	TITUS DESV	10	980	0	490	3	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
	TOILETS C203/204	TITUS DESV	10	840	0	420	3	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
REMARKS: 1. V A V. BOXES SHALL HAVE FIELD INSTALLED D.D.C. CONTROLS. 2. VAV UNITS SHALL HAVE INTEGRAL ELECTRIC HEATING COIL AS FOLLOWS: A. PROPORTIONAL, MODULATING ELECTRIC COILS SHALL BE SUPPLIED & INSTALLED ON THE TERMINAL BY ATTENUATE SECTION INTEGRAL WITH THE TERMINAL WITH ELEMENT GRID RECESSED FROM UNIT DISCHARGE A MIN. OF 5" TO PREVENT DAMAGE TO ELEMENTS DURING SHIPPING & INSTALLATION. ELEMENTS SHALL BE 80/20 NICKEL CHROME, SUPPORTED BY CERAMIC ISOLATORS A MAX. OF 3.5" APART, STAGGERED FOR MAXIMUM THERMAL TRANSFER & ELEMENT LIFE, AND BALANCED TO ENSURE EQUAL OUTPUT PER STEP. THE INTEGRAL PANEL SHALL BE HOUSED IN A NEMA 1 ENCLOSURE WITH HINGED ACCESS DOOR FOR ACCESS TO ALL CONTROLS AND SAFETY DEVICES. B. ELECTRIC COILS SHALL CONTAIN A PRIMARY AUTOMATIC RESET THERMAL CUTOUT, A SECONDARY MANUAL RESET THERMAL CUTOUT, PROPORTIONAL ELECTRONIC AIRFLOW SENSOR TO PROOF OF FLOW, AND LINE TERMINAL BLOCK. THE PROPORTIONAL ELECTRONIC AIRFLOW SENSOR SHALL BE TOTALLY INDEPENDENT OF THE DUCT STATIC PRESSURE AND SHALL ADJUST THE HEATER CAPACITY ACCORDING TO THE AVAILABLE AIRFLOW. THE HEATERS SHALL DELIVER MAXIMUM HEATING WHEN NEEDED WITH NORMAL MINIMUM AIRFLOW, REDUCE HEATING WITH LOWER THAN MINIMUM AIRFLOW AND STOP HEATING WITH NO AIRFLOW. UNIT SHALL INCLUDE AN INTEGRAL DOOR TO BE OPENED WHEN POWER IS ON. NON-INTERLOCKING TYPE DISCONNECTS ARE NOT ACCEPTABLE. ALL INDIVIDUAL COMPONENTS SHALL BE UL LISTED OR RECOGNIZED. C. HEATERS SHALL BE EQUIPPED WITH A PROPORTIONAL SCR CONTROLLER TO MODULATE THE HEATER LOAD ACCORDING TO THE TEMPERATURE CONTROL SIGNAL. THE ELECTRONIC CONTROLLER SHALL BE COMPATIBLE WITH THE FOLLOWING INPUT SIGNALS: (1) VARIABLE VOLTAGE SIGNAL 0-10 VDC. (11) PULSE WIDTH MODULATION AC OR DC. 3. BOXES ARE TO BE PRESSURE INDEPENDENT WITH AVERAGING AIR FLOW SENSOR AND GASKETED ENCLOSURE. 4. BOXES TO BE LINED WITH 1-1/2" CLOSED CELL ELASTOMERIC INSULATION COMPLIANT WITH UL181 AND NFPA 90A.										

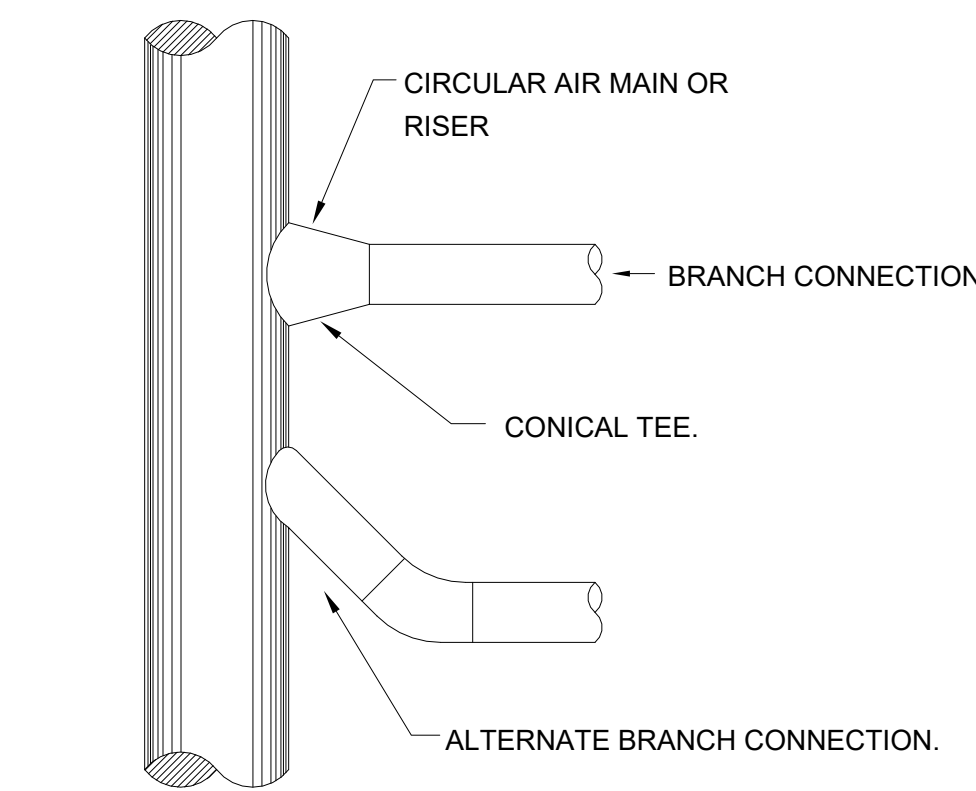
GRILLE, DIFFUSER & REGISTER SCHEDULE						
TAG	MANUFACTURER	MODEL NUMBER	S/R	DESCRIPTION	OBD	REMARKS
	TITUS	TMSA-AA	S	SQ FACE ALUMINUM ADJUSTABLE DIFFUSER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 2, 4
	TITUS	350FL	R/E	ALUMINUM RETURN/EXHAUST REGISTER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 2, 3, 4
REMARKS: 1. FINISH & COLOR BY ARCHITECT. 2. LAY-IN FULL FACE; 23-5/8" X 23-5/8" PANEL SIZE- UNLESS SHOWN OTHERWISE ON PLANS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS. 3. 35 DEGREE DEFLECTION, 3/4" SPACING. 4. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.						



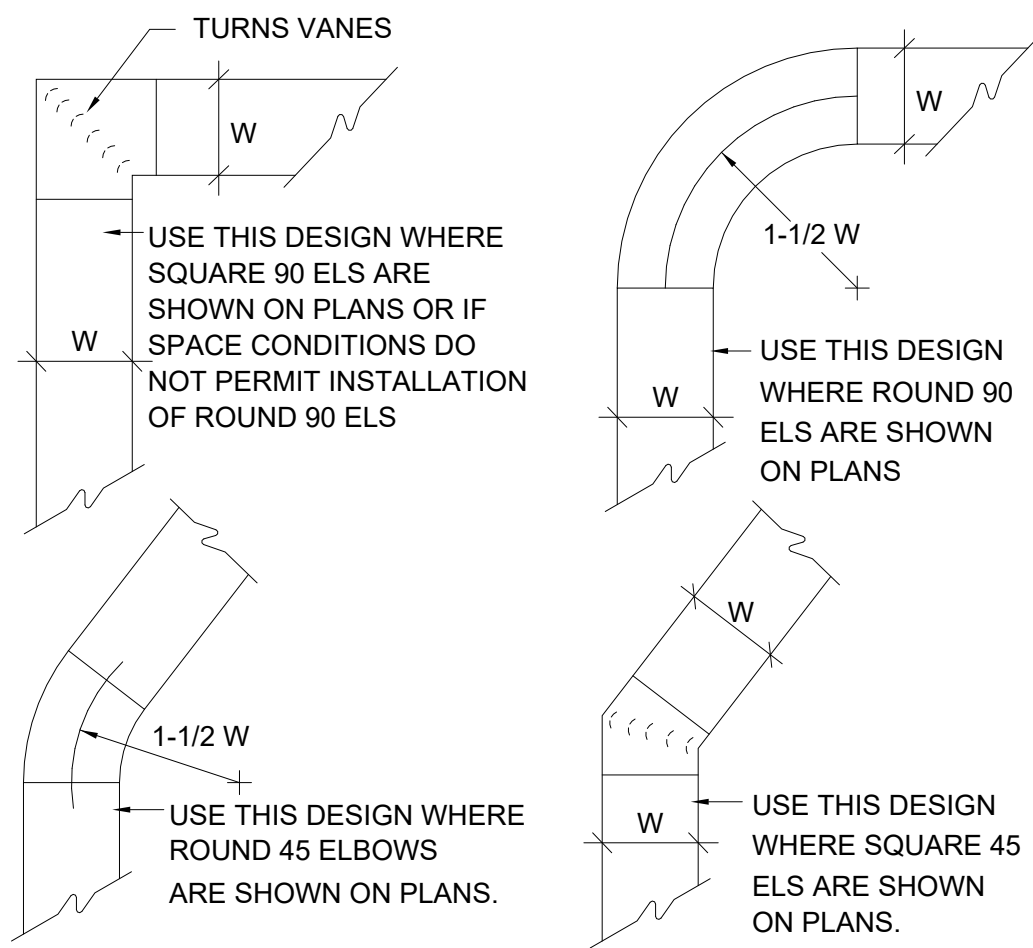
BRANCH DUCT CONNECTION
NO SCALE



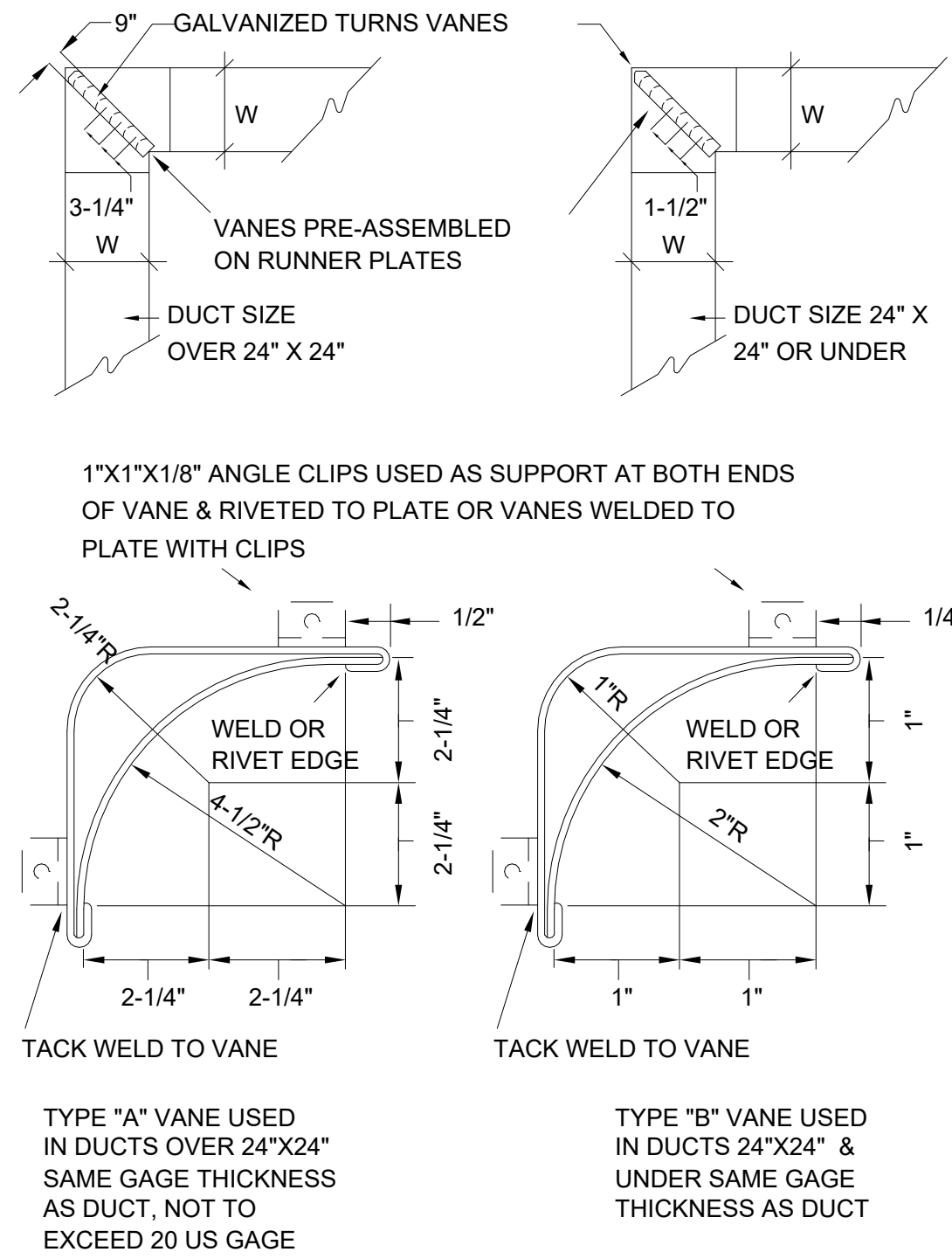
RETURN AIR GRILLE DETAIL
NO SCALE



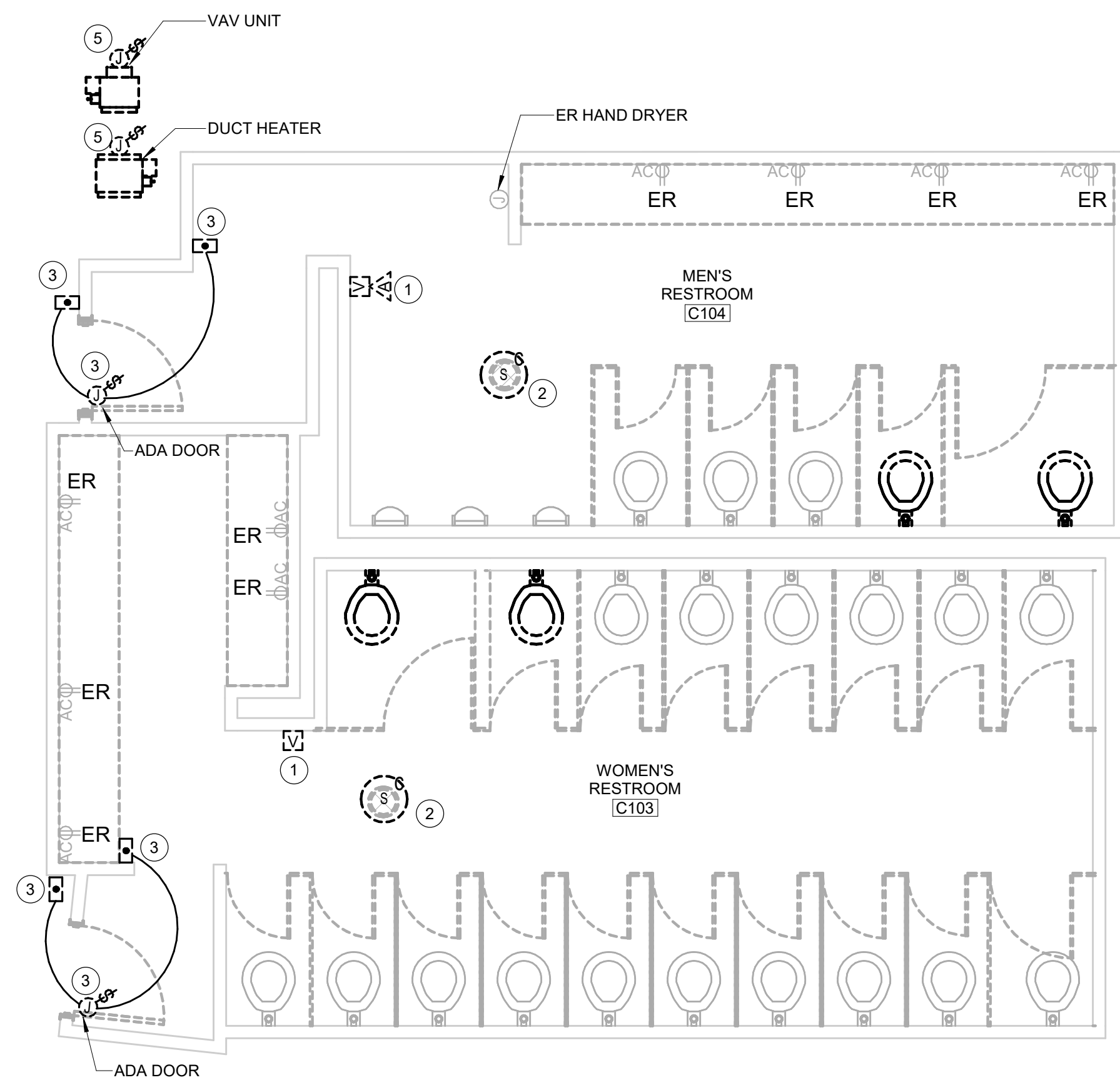
SHEET METAL DUCT DETAILS
NO SCALE



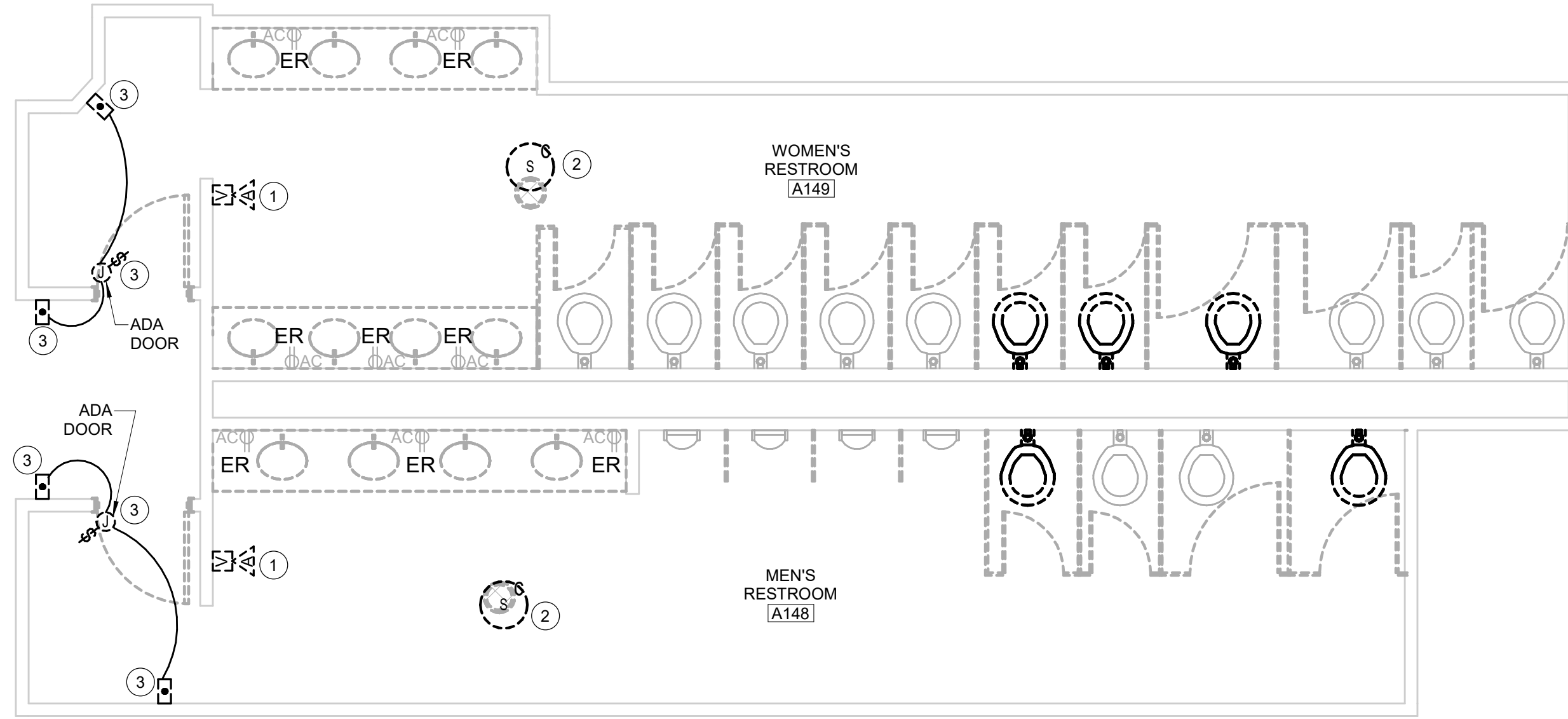
SHEET METAL DUCT DETAILS
NO SCALE



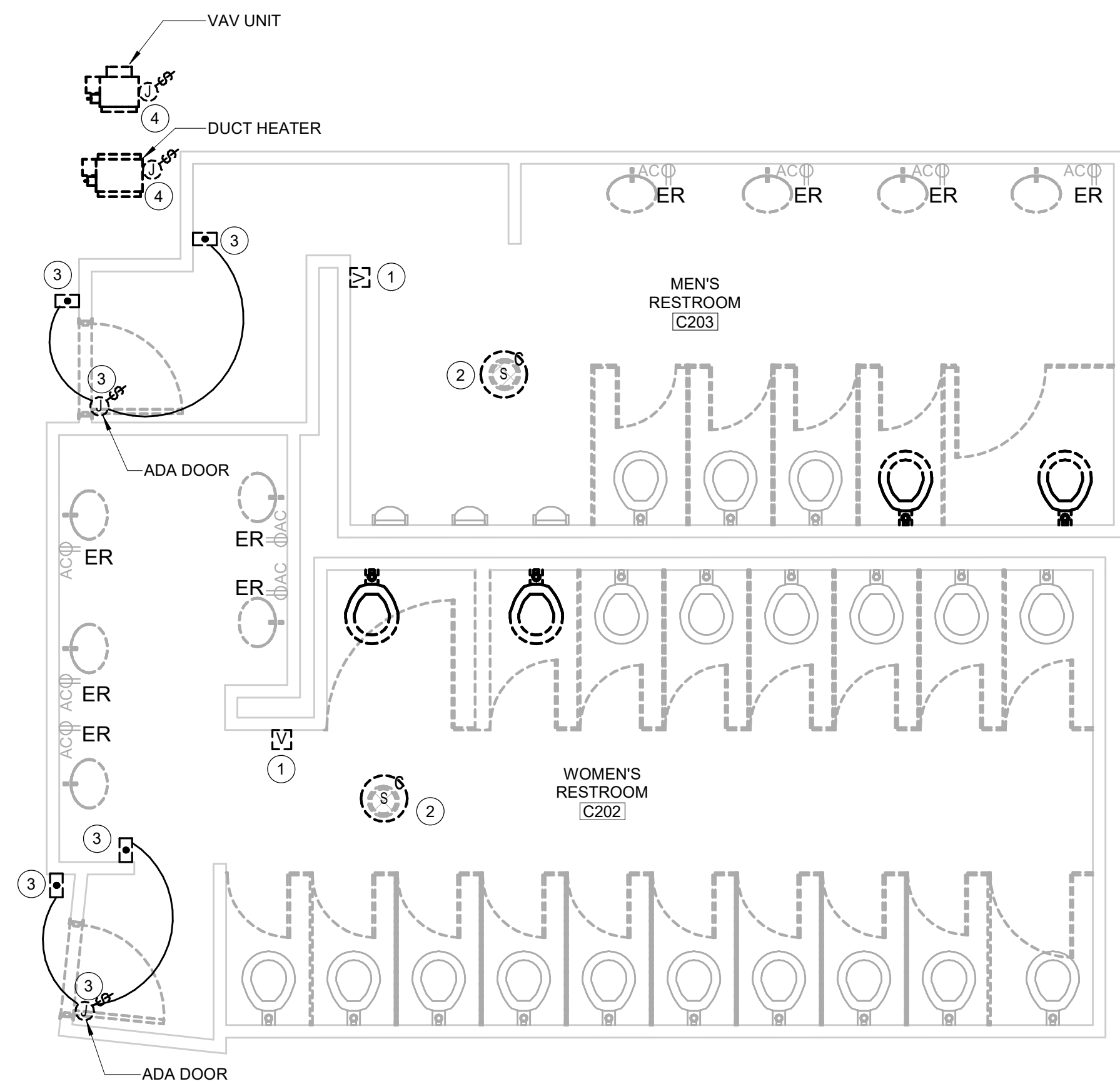
SQUARE DUCT ELBOWS
NO SCALE



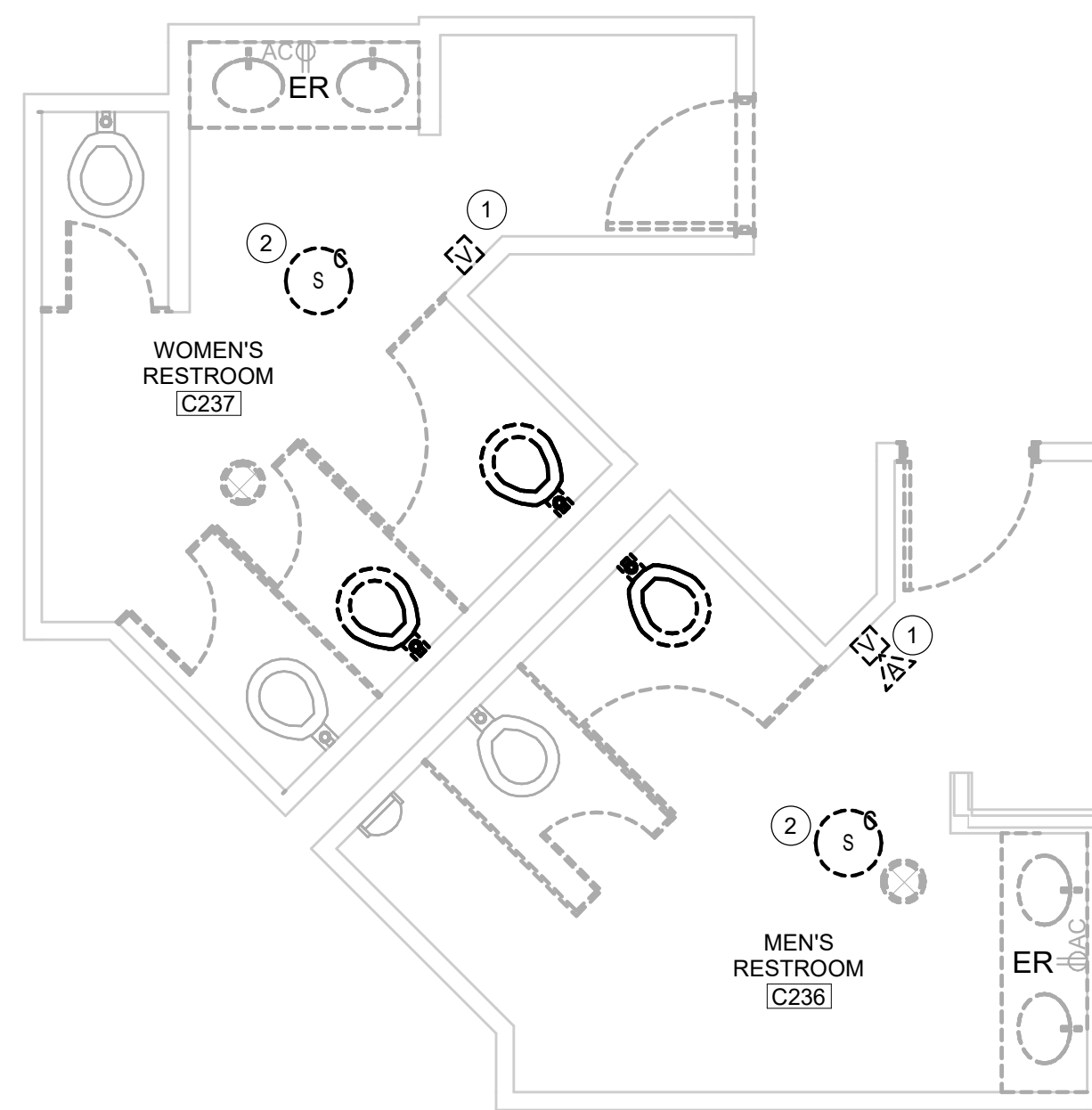
1 ELECTRICAL DEMOLITION PLAN -
C103/104
1/4" = 1'-0"



2 ELECTRICAL DEMOLITION PLAN -
A148/149
1/4" = 1'-0"



3 ELECTRICAL DEMOLITION PLAN -
C202/203
1/4" = 1'-0"

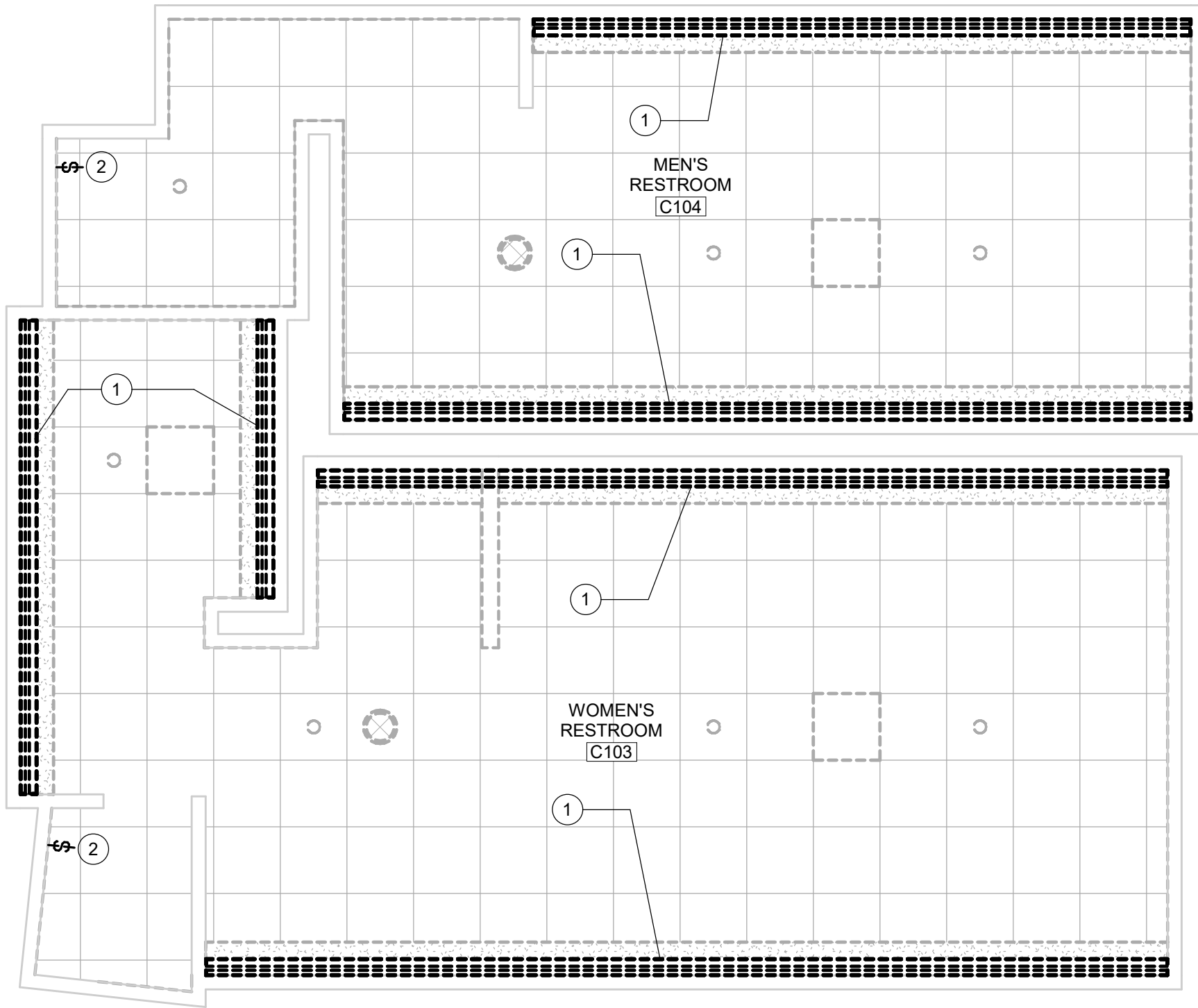


4 ELECTRICAL DEMOLITION PLAN -
C236/237
1/4" = 1'-0"

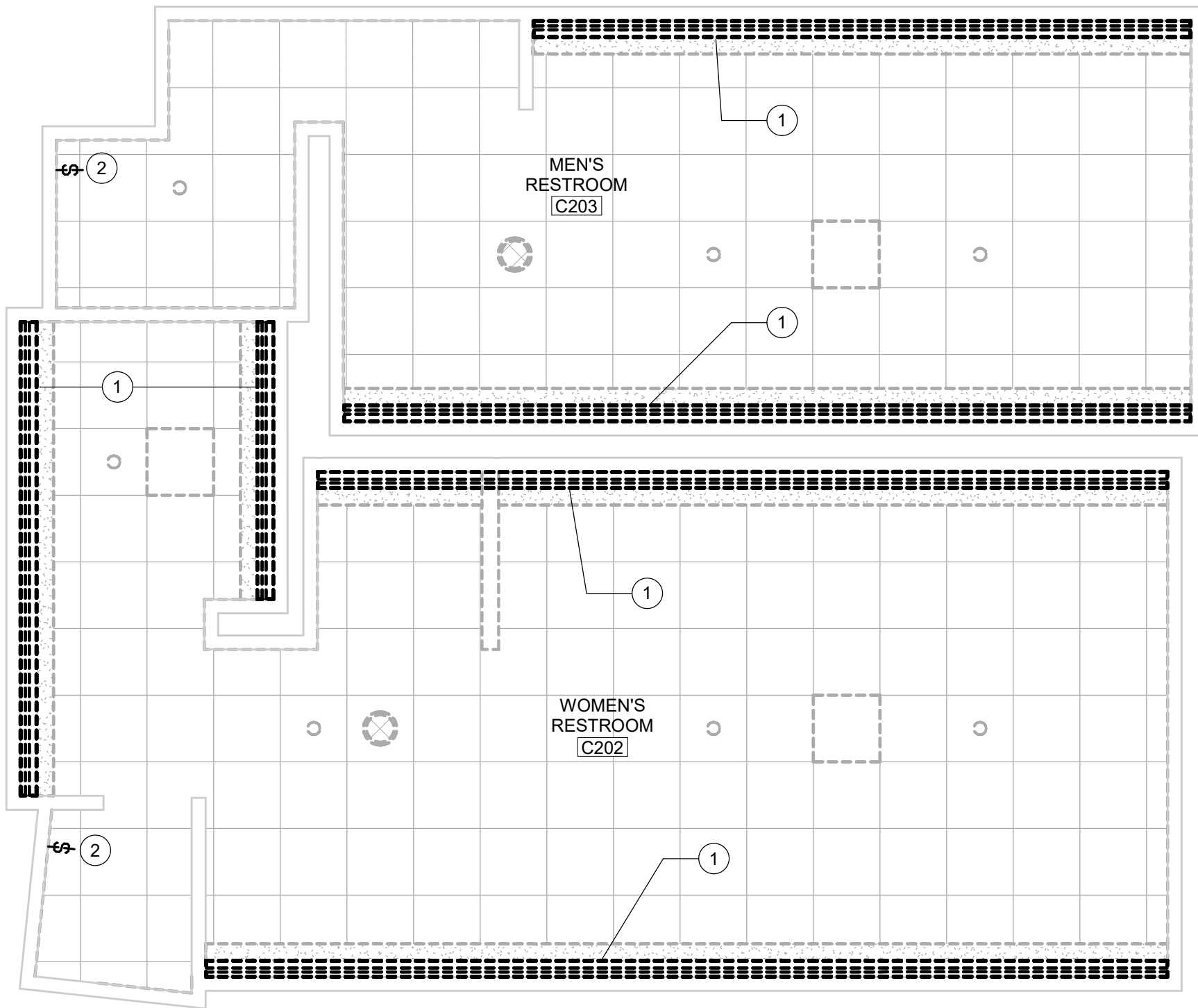
ELECTRICAL DEMOLITION PLAN NOTES: X

- DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE. DISCONNECT AND REMOVE EXISTING FIRE ALARM CABLE BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN NOTIFICATION DEVICES IN CIRCUIT ENERGIZED. COVER EXISTING BOX WITH NEW FINISHED COVERPLATE. COORDINATE COLOR WITH ARCHITECT.
- DISCONNECT AND REMOVE EXISTING RECESSED CEILING SPEAKER COMPLETE. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING BACK TO HEADEND EQUIPMENT SERVING DEVICES. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN SPEAKERS IN EXISTING CIRCUIT ENERGIZED. DISPOSE OF SPEAKERS PER EPA REQUIREMENTS.
- DISCONNECT AND REMOVE EXISTING ADA DOOR POWER SUPPLY, PUSH PADDLES, ASSOCIATED WIRING AND EXPOSED RACEWAY BACK TO POINT FOR RECONNECTION TO NEW ADA PUSH PADDLES AND ASSOCIATED DOOR HARDWARE/POWER SUPPLY. CUT AND PATCH EXISTING WALLS AS REQUIRED. RETAIN JUNCTION BOXES AND CONDUIT IF IT CAN BE REUSED FOR NEW PUSH PADDLES.
- DISCONNECT AND REMOVE EXISTING POWER FROM EXISTING VAV BOX AND ASSOCIATED DUCT HEATER COMPLETE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN EXISTING CIRCUIT ENERGIZED. COORDINATE FINAL LOCATION IN FIELD WITH MC. TRACE OUT EXISTING CIRCUIT AND VERIFY LOCATION OF EXISTING SOURCE PANELBOARD IN FIELD.
- DISCONNECT AND REMOVE EXISTING POWER FROM EXISTING VAV BOX AND ASSOCIATED DUCT HEATER. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO POINT FOR RECONNECTION TO NEW VAV UNIT. COORDINATE FINAL LOCATION IN FIELD WITH MC. TRACE OUT EXISTING CIRCUIT AND VERIFY LOCATION OF EXISTING SOURCE PANELBOARD IN FIELD.

ALL PANELS AFFECTED BY DEMOLITION AND NEW WORK SHALL HAVE CARD DIRECTORIES REPLACED WITH NEW TYPED CARD DIRECTORY INCLUDING ROOM AND DEVICES SERVED. TRACE OUT ALL WIRING AND CONDUIT AS REQUIRED TO DETERMINE THIS INFORMATION.
NO HANDWRITTEN CARD DIRECTORIES ARE ALLOWED.



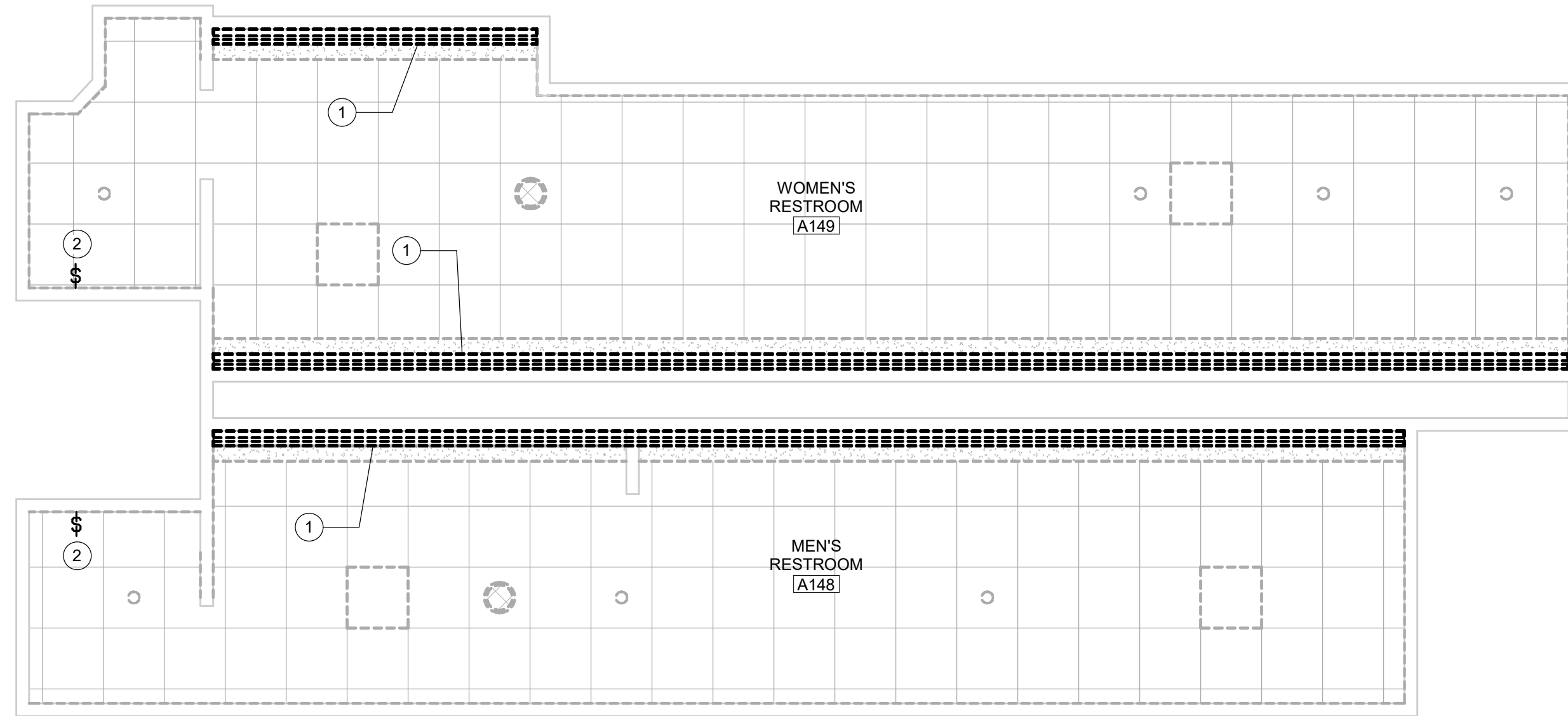
1 LIGHTING DEMOLITION PLAN - C103/104
1/4" = 1'-0"



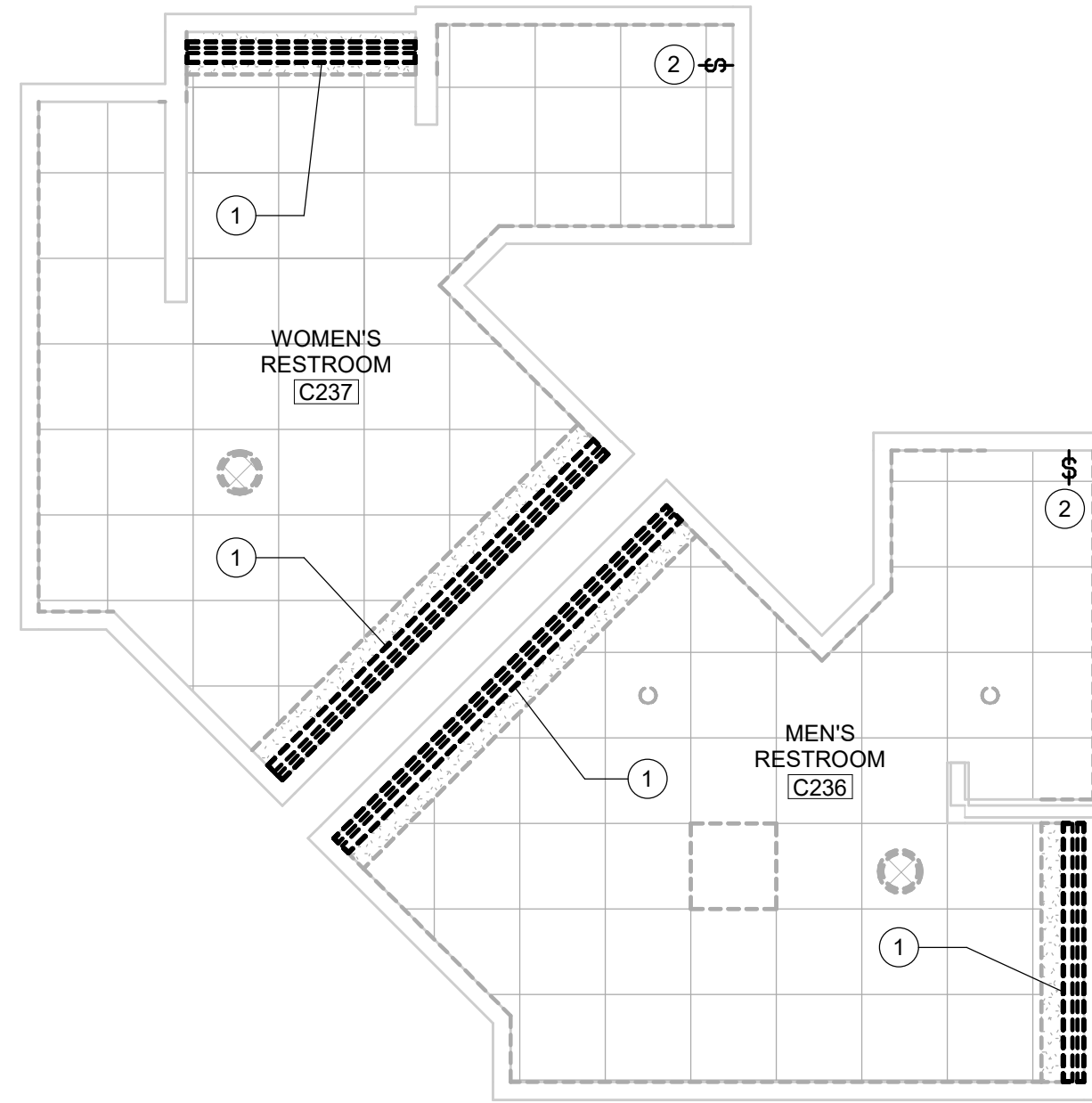
3 LIGHTING DEMOLITION PLAN - C202/C203
1/4" = 1'-0"

ELECTRICAL DEMOLITION NOTES (X)

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE COMPLETE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO POINT FOR RECONNECTION TO NEW LIGHT FIXTURES. EC SHALL VERIFY EMERGENCY LIGHTING CIRCUIT IN FIELD FOR RECONNECTION TO NEW FIXTURE. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN LIGHTS IN EXISTING TO REMAIN CIRCUIT ENERGIZED. DISPOSE OF LIGHT FIXTURES PER EPA REQUIREMENTS.
2. DISCONNECT AND REMOVE EXISTING LIGHTING CONTROL. DISCONNECT AND REMOVE EXISTING WIRING BACK TO LIGHT FIXTURES. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN LIGHTS IN EXISTING TO REMAIN CIRCUIT ENERGIZED. RETAIN EXISTING RECESSED BACKBOX IF CAN BE REUSED FOR NEW SWITCH. OTHERWISE IF FLUSH MOUNTED AND NOT REUSED, ABANDON IN PLACE AND INSTALL BLANK FINISHED COVERPLATE.



2 LIGHTING DEMOLITION PLAN - A148/A148
1/4" = 1'-0"



4 LIGHTING DEMOLITION PLAN - C236/C237
1/4" = 1'-0"

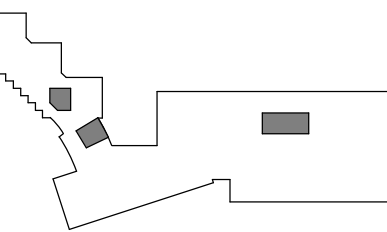
GENERAL LIGHTING DEMOLITION NOTE:

INSTALL BLANK FINISHED COVERPLATES OVER ALL FLUSH MOUNTED WALL OPENINGS WHERE DEVICES HAVE BEEN REMOVED AND LOCATIONS WILL NOT BE REUSED. WHERE SURFACE MOUNTED BOXES AND RACEWAYS WILL NO LONGER BE USED AND CONSIDERED ABANDONED, THEY WILL BE REMOVED COMPLETELY AND WALL PATCHED AND PAINTED TO MATCH SURROUNDING AREA. ANY CEILING TILES LEFT WITH HOLES IN THEM FROM REMOVAL OF DEVICES SHALL BE REPLACED WITH NEW MATCHING CEILING TILES. ALL HOLES IN WALLS, CEILINGS, AND FLOORS SHALL BE PATCHED AND PAINTED TO MATCH AREA.

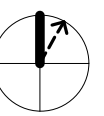
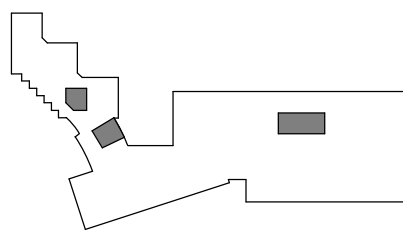
GENERAL CEILING DEVICE DEMOLITION NOTE:

EC SHALL FURNISH AND INSTALL PERMANENT SUPPORTS FOR ANY UNSUPPORTED CONDUIT, BOX, OR CABLES FOUND ABOVE THE CEILING DURING ABOVE CEILING WORK AND/OR AREAS WITH CEILINGS BEING REMOVED BY THE ARCHITECT. EXISTING FREE AIR WIRES SERVING LIGHT FIXTURES FOUND ABOVE CEILING CONDUIT SHALL BE INSTALLED IN 3/4" CONDUIT MINIMUM UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH OWNER.

ALL PANELS AFFECTED BY DEMOLITION AND NEW WORK SHALL HAVE CARD DIRECTORIES REPLACED WITH NEW TYPED CARD DIRECTORY INCLUDING ROOM AND DEVICES SERVED. TRACE OUT ALL WIRING AND CONDUIT AS REQUIRED TO DETERMINE THIS INFORMATION. **NO HANDWRITTEN CARD DIRECTORIES ARE ALLOWED.**

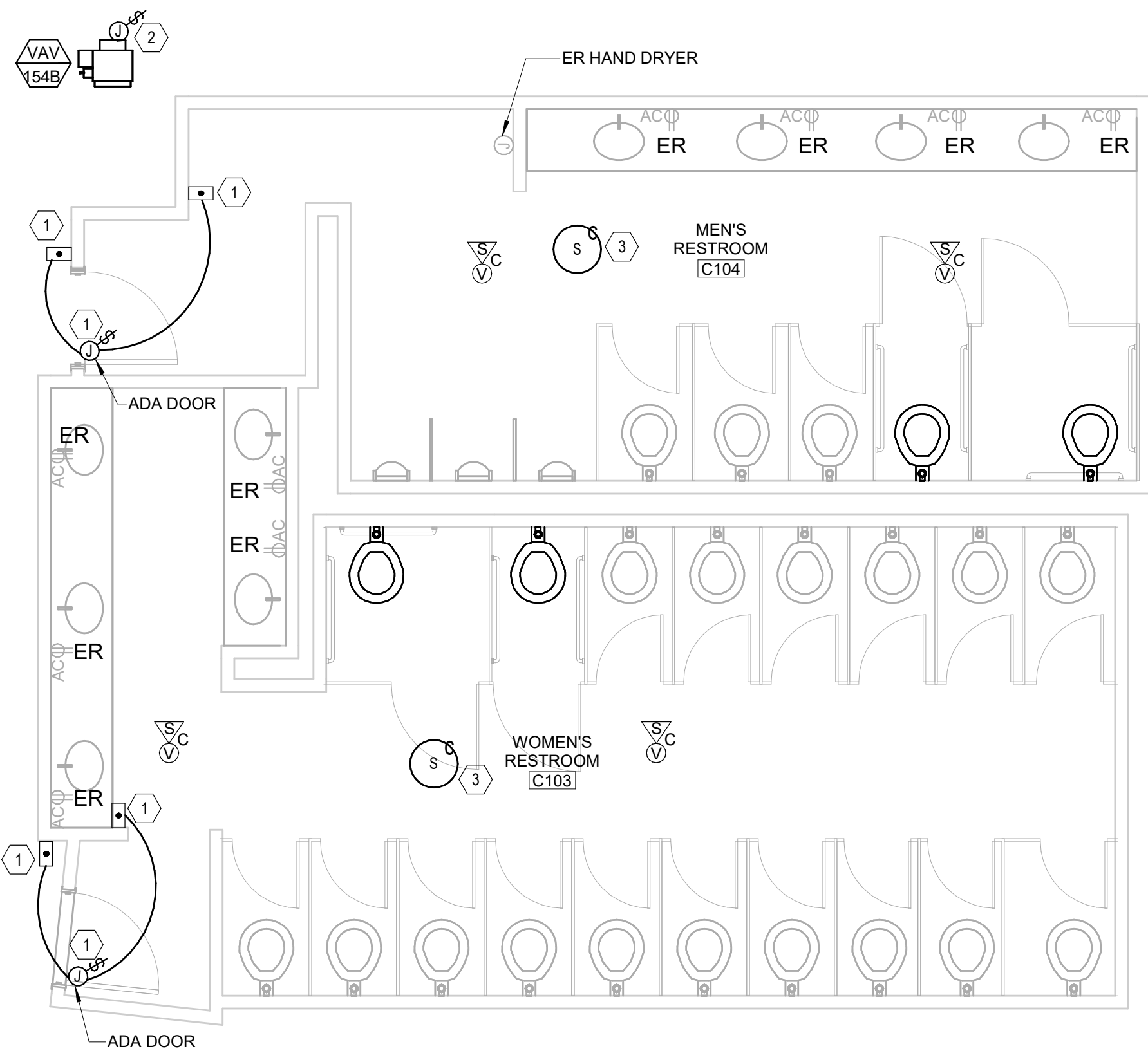


1	ISSUE FOR BID	09 JUN 25
DATE	DATE	DATE
Job Number	021075.001	

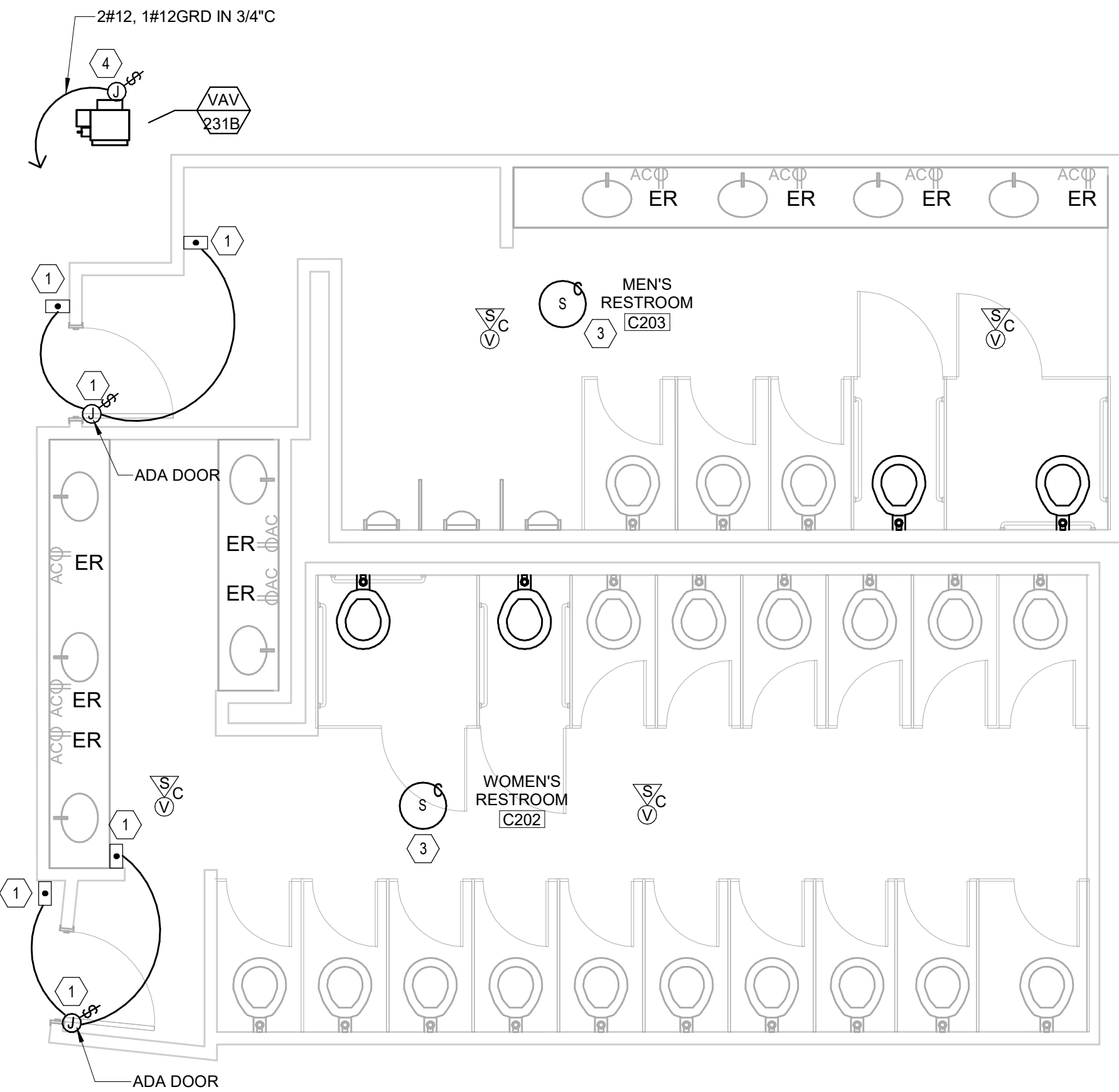


1	ISSUE FOR BID	09 JUN 25
DATE	DATE	DATE
1	ISSUE	021075.001

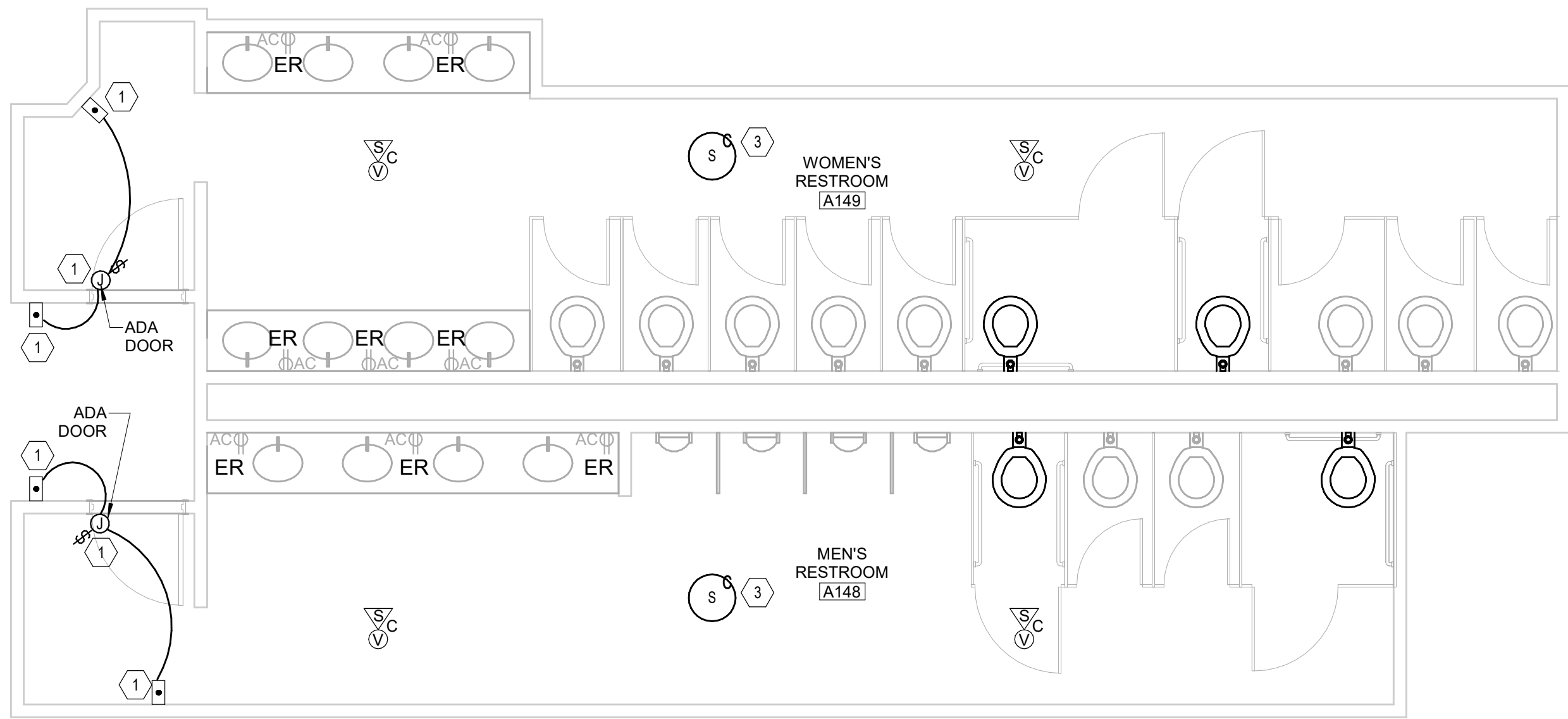
Job Number	TITLE
	ELECTRICAL AND SYSTEMS NEW WORK PLANS - SKOKIE CAMPUS
	SHEET NUMBER



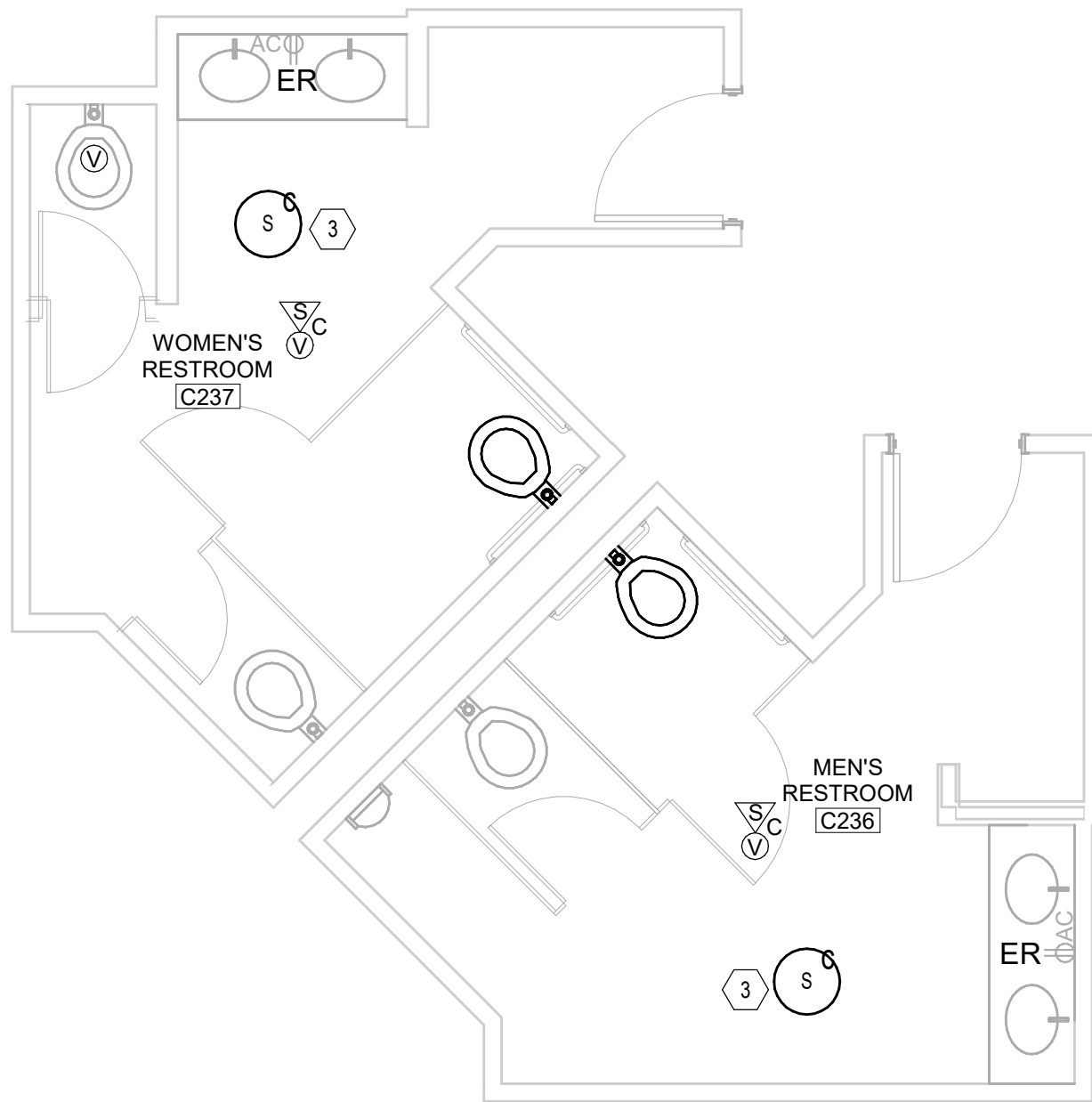
1 ELECTRICAL PLAN - C103/104
1/4" = 1'-0"



3 ELECTRICAL PLAN - C202/203
1/4" = 1'-0"



2 ELECTRICAL PLAN - A148/149
1/4" = 1'-0"



4 ELECTRICAL PLAN - C236/237
1/4" = 1'-0"

ELECTRICAL PLAN NOTES: (X)

- EXTEND EXISTING BRANCH CIRCUIT FOR NEW ACCESSIBLE DOOR HARDWARE. INCLUDE BOXES AND RACEWAYS FOR HANDICAP BUTTONS AND CONNECTION TO OPERATE UNIT IF EXISTING INFRASTRUCTURE CANNOT BE REUSED. FURNISH AND INSTALL NEW CONDUIT AND WIRES AS REQUIRED PER DOOR MANUFACTURER FOR A COMPLETE INSTALLATION. COORDINATE THE DOOR HARDWARE WITH THE ARCHITECT. COORDINATE BUTTON TYPE WITH ARCHITECT PRIOR TO INSTALLATION.
- EXTEND EXISTING VAV BRANCH CIRCUIT TO NEW VAV UNIT AS REQUIRED. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE CONNECTION. FURNISH AND INSTALL NEW 30A/1P/277V MOTOR RATED TOGGLE SWITCH FOR NEW VAV UNIT.
- FURNISH AND INSTALL NEW CEILING MOUNTED INTERCOM SPEAKER. CONNECT TO EXISTING INTERCOM PAGING CIRCUIT SERVING THE ADJACENT CORRIDOR. FURNISH AND INSTALL ADDITIONAL CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE INSTALLATION.
- FURNISH AND INSTALL NEW CONDUIT AND WIRES AS SHOWN. EC SHALL VERIFY LOCATION OF PANELBOARD "2B-H1" IN FIELD AND REUSE SPARE CIRCUIT FOR NEW VAV UNIT. VERIFY FINAL LENGTH OF CONDUIT AND WIRES REQUIRED IN FIELD (150FT MINIMUM). FURNISH AND INSTALL NEW 20A/1P CIRCUIT BREAKER AS REQUIRED AT CIRCUIT 19 OR USE SPARE 20A/1P CIRCUIT BREAKER, WHICHEVER IS REQUIRED. NEW CIRCUIT BREAKER MAKE, MODEL, AND AIC RATING SHALL MATCH EXISTING. FURNISH AND INSTALL NEW 30A/1P/277V MOTOR RATED TOGGLE SWITCH FOR NEW VAV UNIT.

CEILING DEVICE NOTES:

- A. COORDINATE FINAL CEILING DEVICE LOCATIONS WITH LIGHTING AND MECHANICAL PLANS PRIOR TO INSTALLATION. EC SHALL ENSURE THAT FIRE ALARM NOTIFICATION DEVICE ACHIEVES MAXIMUM COVERAGE OF SPACE.

GENERAL ELECTRICAL NOTES:

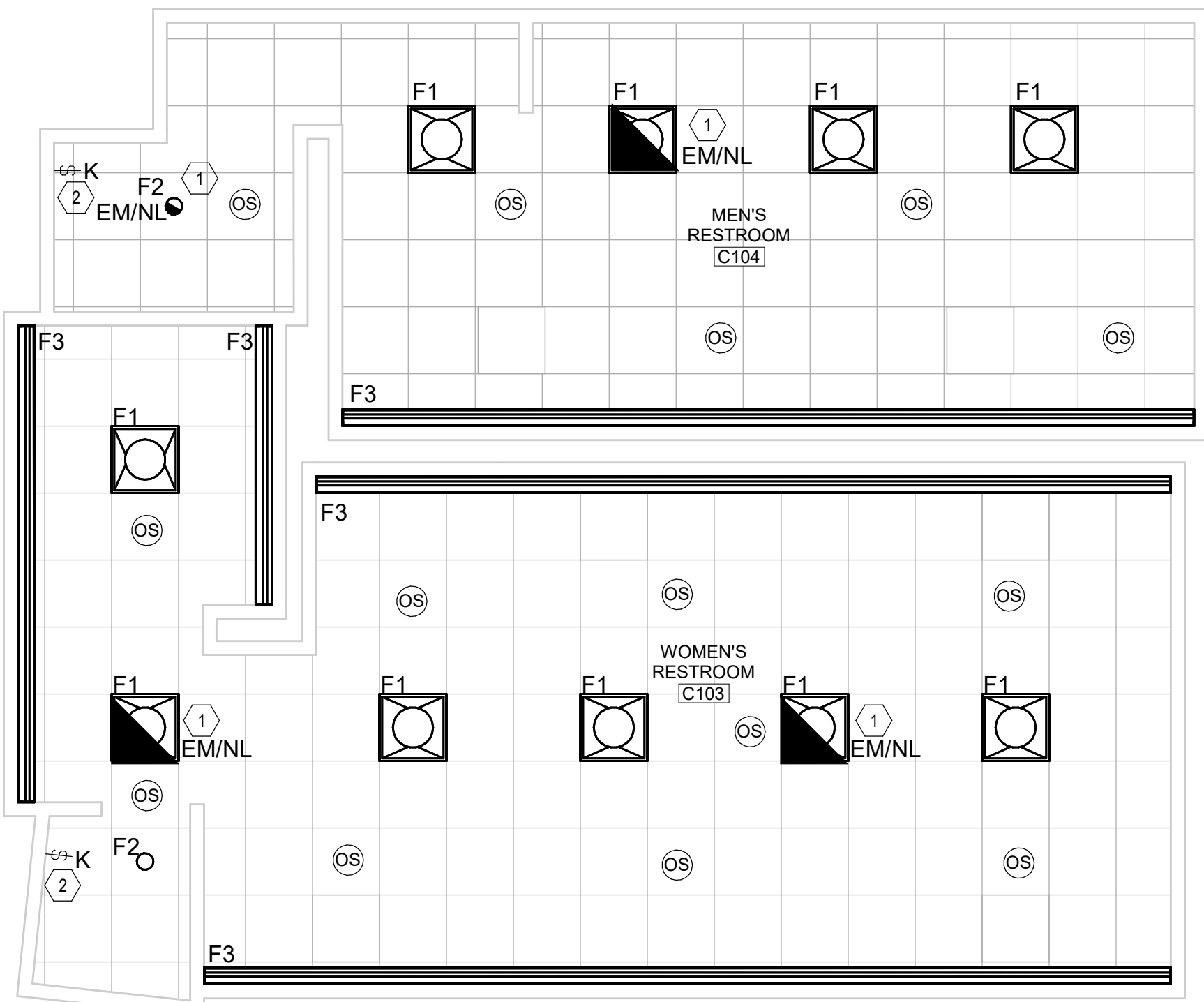
- A. REFER TO SHEETS E21-01 AND E21-02 FOR KNOWN RELEVANT ELECTRICAL CLOSET LOCATIONS. VERIFY EXISTING PANEL LOCATIONS IN FIELD.

FIRE ALARM NOTE:

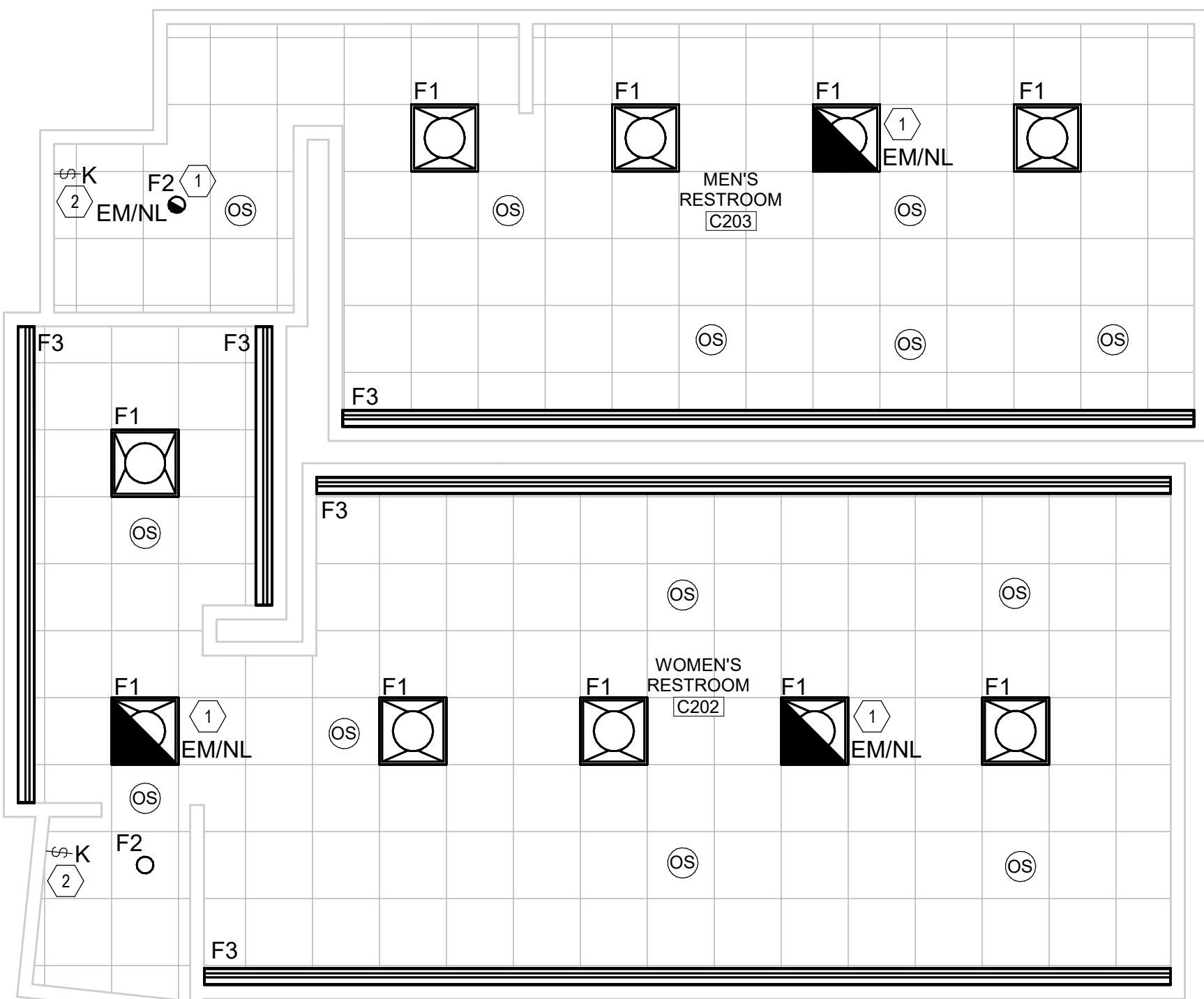
- A. FURNISH AND INSTALL NEW NOTIFICATION DEVICES AS SHOWN. COORDINATE FINAL LOCATIONS WITH ALL TRADES PRIOR TO INSTALLATION. FURNISH AND INSTALL NEW FIRE ALARM CABLE AND CONDUIT AS REQUIRED. CONNECT DEVICES TO NEAREST EXISTING LOCAL NOTIFICATION CIRCUIT. REFER TO SHEET E51-01 FOR ADDITIONAL INFORMATION.

ALL PANELS AFFECTED BY
DEMOLITION AND NEW WORK
SHALL HAVE CARD DIRECTORIES
REPLACED WITH NEW TYPED
CARD DIRECTORY INCLUDING
ROOM AND DEVICES SERVED.
TRACE OUT ALL WIRING AND
CONDUIT AS REQUIRED TO
DETERMINE THIS INFORMATION.
**NO HANDWRITTEN CARD
DIRECTORIES ARE ALLOWED.**

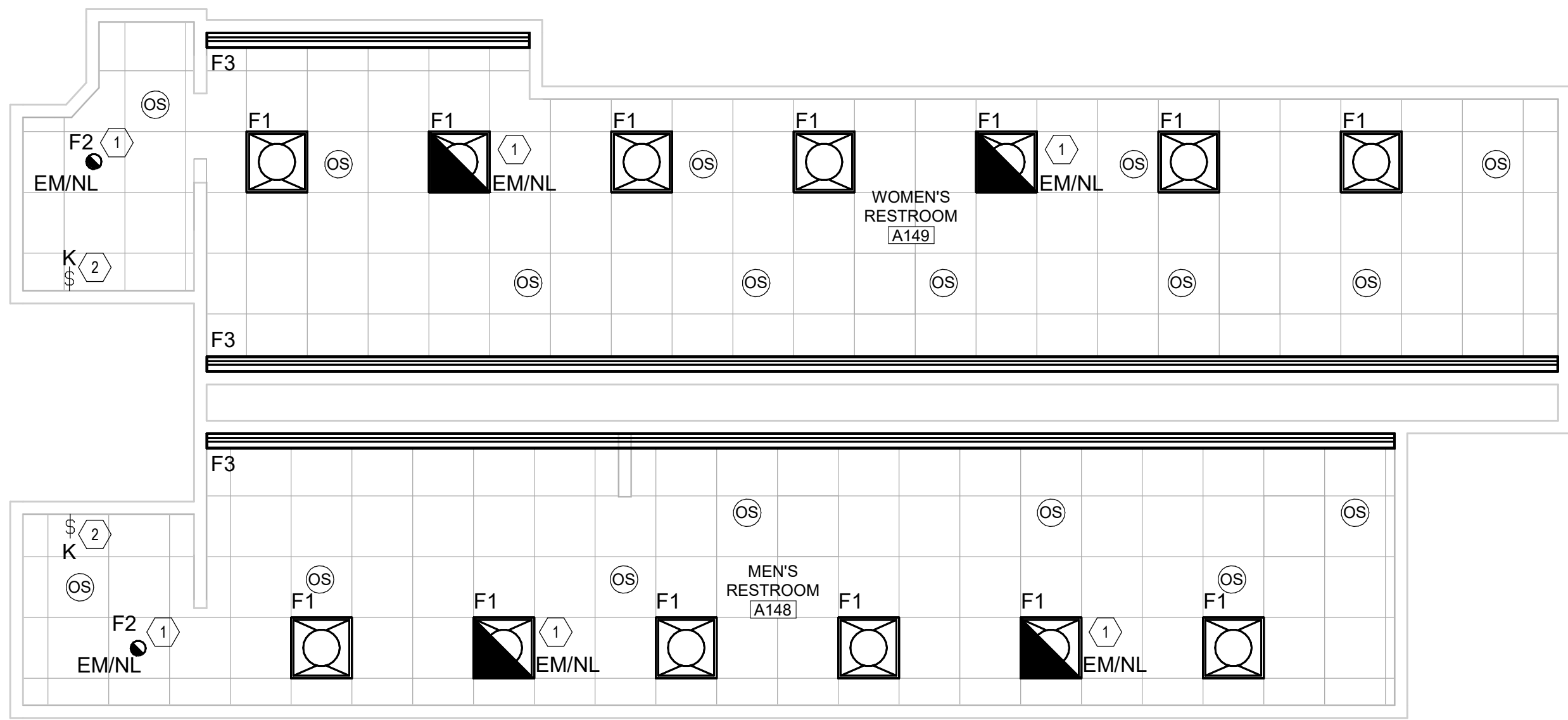
6/8/2025 10:29:33 AM Autodesk Docs/2424 - Oakton College - 1st & 2nd Floor Adj Rem/2450-OAKTON SKOKIE TOILETS-MEFP-2023-CENTRAL-14



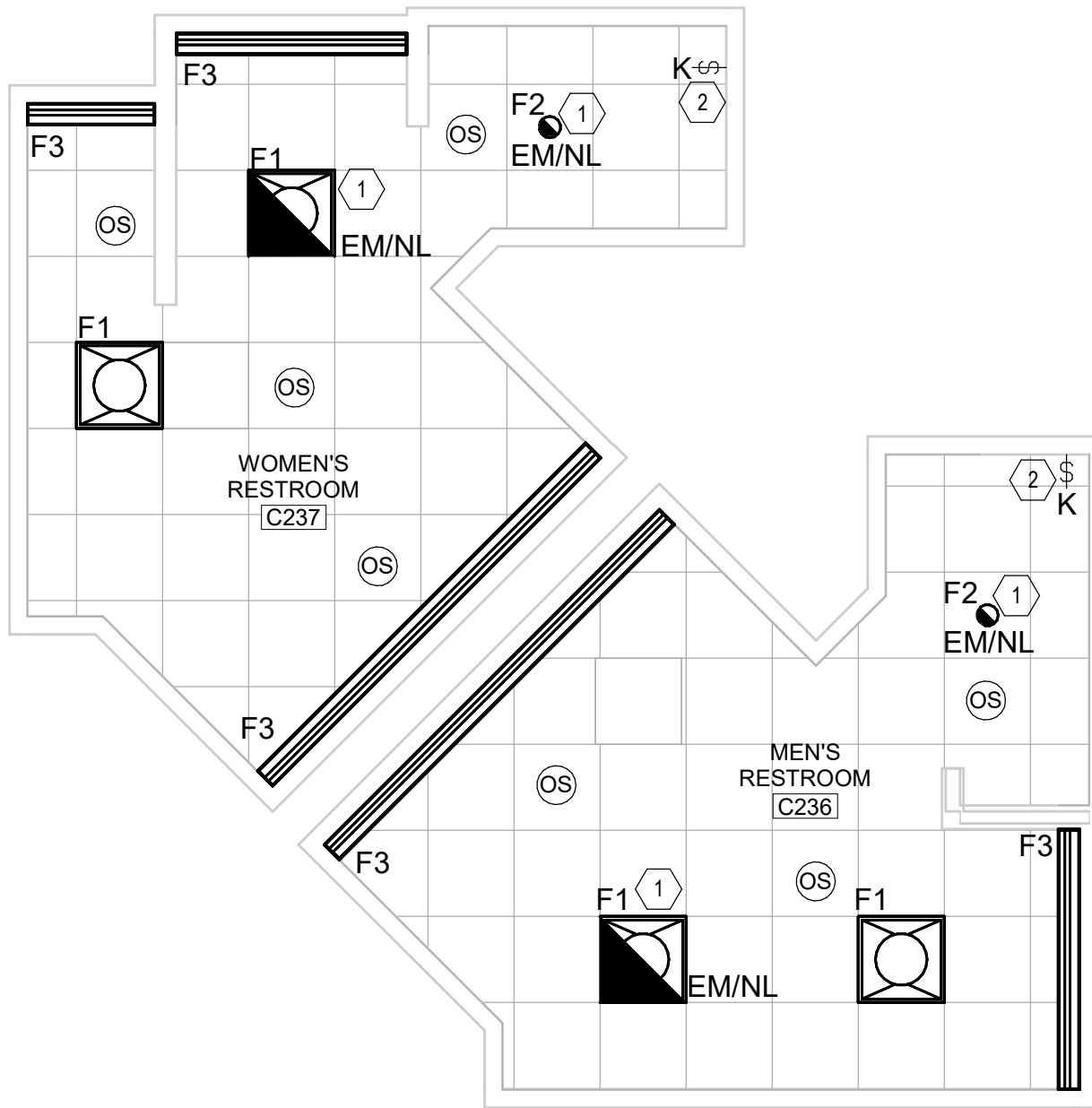
① LIGHTING PLAN - C103/C104
1/4" = 1'-0"



③ LIGHTING PLAN - C202/C203
1/4" = 1'-0"



② LIGHTING PLAN - A148/A149
1/4" = 1'-0"



④ LIGHTING PLAN - C236/C237
1/4" = 1'-0"

GENERAL ELECTRICAL NOTES:

- REUSE EXISTING BRANCH CIRCUITS FOR ALL NEW LIGHT FIXTURES UNLESS NOTED OTHERWISE. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. RECONNECT EXISTING EMERGENCY/NIGHT LIGHT CIRCUITS TO NEW FIXTURES AS SHOWN. FURNISH AND INSTALL NEW CONTROLS AS SHOWN. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR DETAILS.
- ALL EMERGENCY/NIGHT LIGHTS SHALL BE RECONNECTED TO EXISTING NIGHT LIGHT BRANCH CIRCUIT AHEAD OF LOCAL CONTROLS. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. USE #10 WIRE FOR 277V CIRCUITS LONGER THAN 200 FEET.
- VERIFY EXISTING LIGHTING BRANCH CIRCUIT VOLTAGE IN FIELD PRIOR TO ORDERING FIXTURES.
- COORDINATE MOUNTING OF CEILING MOUNTED CONTROL DEVICES PRIOR TO START OF WORK. ENSURE MAXIMUM COVERAGE IS ACHIEVED.

ELECTRICAL PLAN NOTES (x)

- EXTEND NEAREST EXISTING EMERGENCY/NIGHT LIGHT BRANCH CIRCUIT FOR NEW EM/NL FIXTURE. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. FIXTURE SHALL BE WIRED AHEAD OF LOCAL LIGHTING CONTROLS. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR FURTHER INFORMATION. MINIMUM 2#10, 1#12GRD IN 3/4"C.
- FURNISH AND INSTALL NEW KEYED SWITCH FOR LOCAL LIGHTING CONTROL. IF EXISTING BACKBOXES AND INFRASTRUCTURE CANNOT BE REUSED, FURNISH AND INSTALL NEW CONCEALED CONDUIT AND BACKBOXES. PROVIDE ADDITIONAL HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION. CUT AND PATCH EXISTING TILED WALL AS REQUIRED. COORDINATE ADDITIONAL WORK REQUIRED WITH ARCHITECT. SURFACE MOUNTED RACEWAYS AND BOXES MAY BE USED WITH WRITTEN PERMISSION FROM OWNER AND ARCHITECT.

GENERAL ELECTRICAL NOTES:

- REFER TO SHEETS E21-01 AND E21-02 FOR KNOWN RELEVANT ELECTRICAL CLOSET LOCATIONS. VERIFY EXISTING PANEL LOCATIONS IN FIELD.

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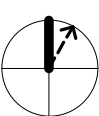
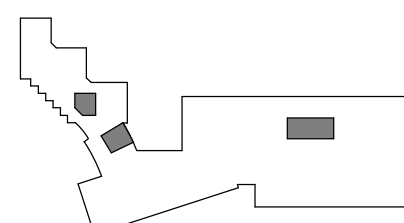
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ISSUE FOR BID JUNE 9, 2025

KEY PLAN



ISSUE CHART

1	ISSUE FOR BID	09 JUN 25
DATE	DATE	DATE
1	1	1

Job Number 021075 001

TITLE

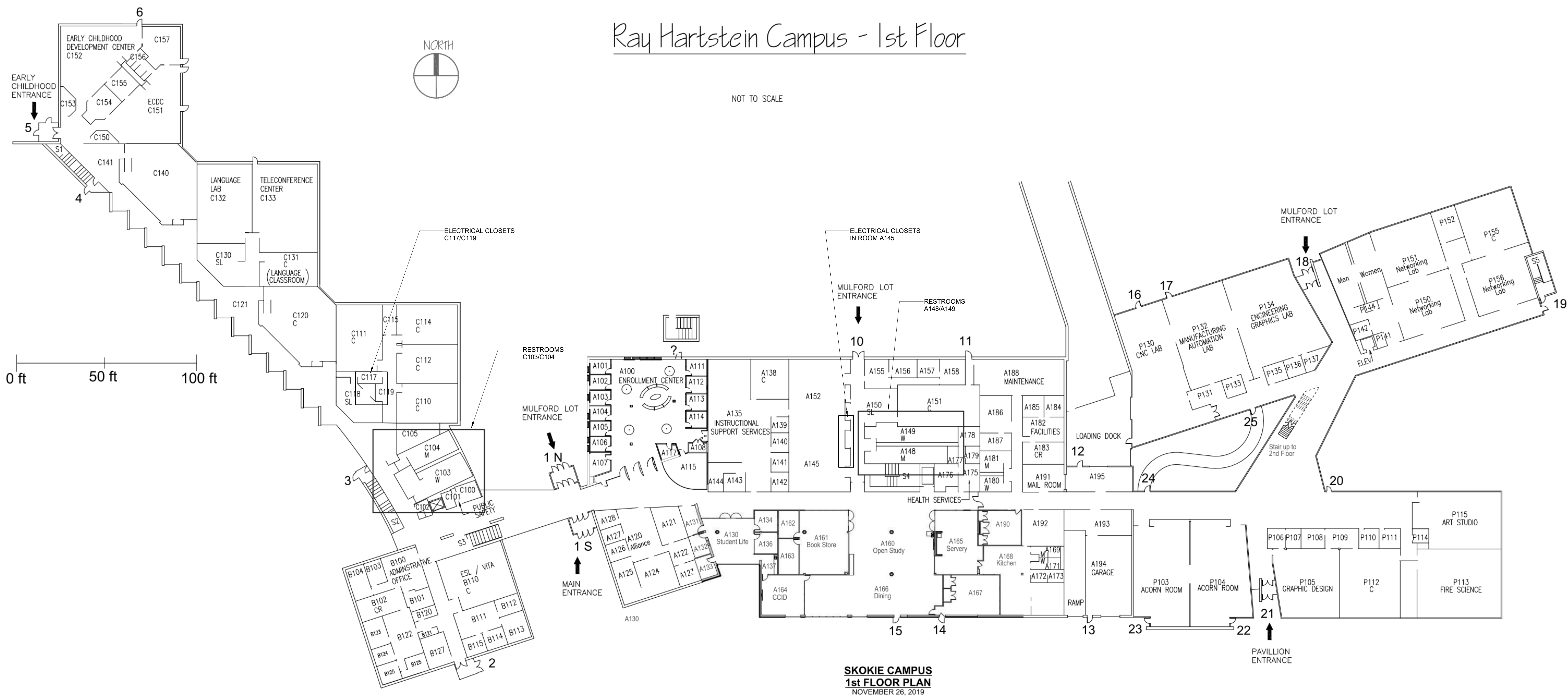
LIGHTING NEW WORK
PLANS - SKOKIE
CAMPUS

SHEET NUMBER

E12-01

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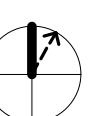
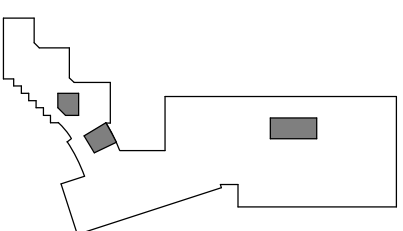
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ISSUE FOR BID JUNE 9, 2025

KEY PLAN



ISSUE CHART

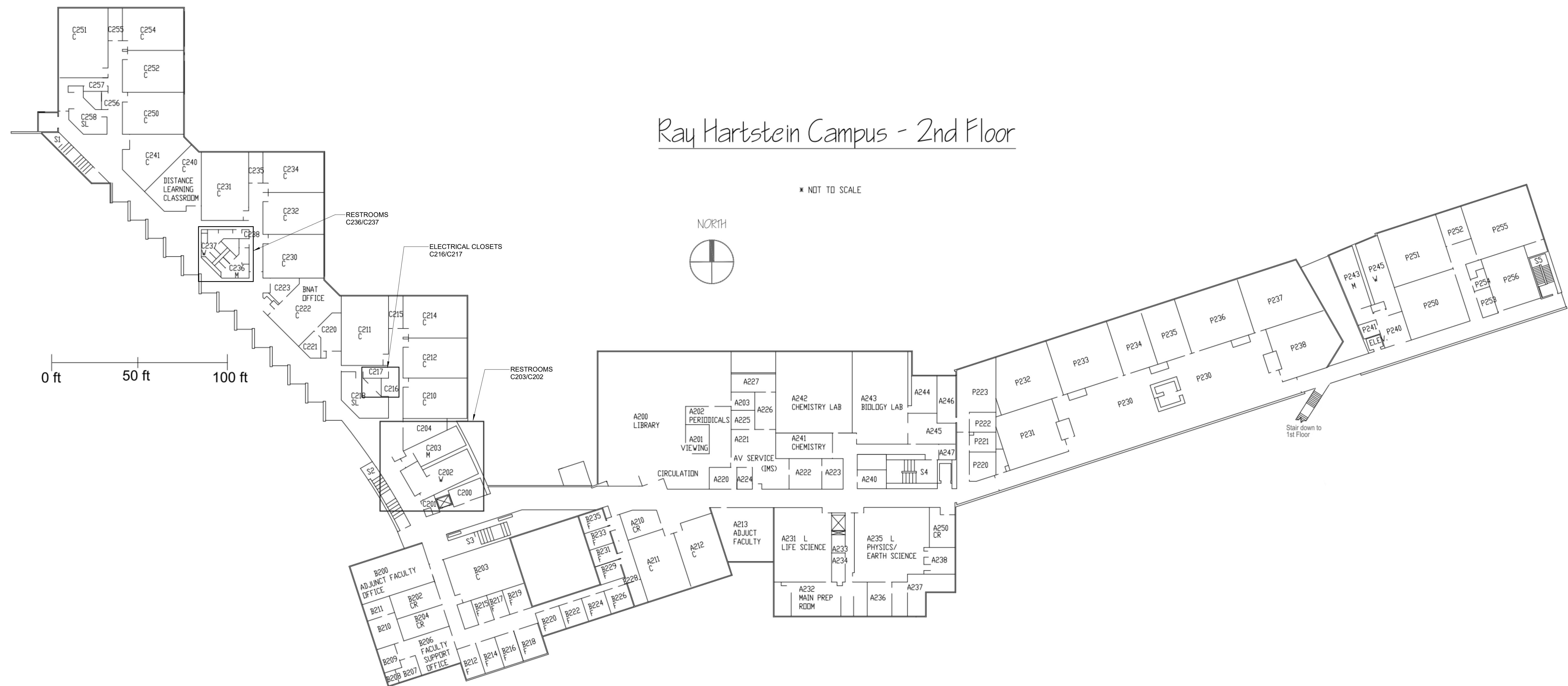
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WORK	ISSUE	DATE
Job Number	021075.001	TITLE

OVERALL FIRST FLOOR
KEY PLAN

SHEET NUMBER

E21-01

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LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER	MODEL NUMBER	LAMPS / LUMINAIRES				DRIVER	MOUNTING	DESCRIPTION	REMARKS
			QTY	TYPE	WATTS	VOLTS				
F1	LITHONIA LIGHTING	2BLT2-20L-ADP-GZ10-LP840	PER DWG.	LED	16.4	120/277	0-10 DIMMING	RECESSED	2X2 LED TROFFER	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. VERIFY EXACT GRID TYPE PRIOR TO ORDERING ANY LAY-IN FIXTURE. COORDINATE FIXTURE COLOR TEMPERATURE WITH OWNER AND ARCHITECT PRIOR TO ORDERING.
F2	GOTHAM	EVO6-40/20-AR-LSS-MD-MVOLT-GZ10	PER DWG.	LED	19.7	120/277	0-10 DIMMING	RECESSED	6" DOWNLIGHT	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. VERIFY MOUNTING TYPE REQUIRED WITH ARCHITECT PRIOR TO ORDERING.
F3	FOCAL POINT	FWSL-FL-450LF-40K-1C-UNV-LD1-U-WH-XFT XIN	PER DWG.	LED	28	120/277	0-10 DIMMING	RECESSED	LINEAR RECESSED WALL WASHER	REFER TO ARCHITECTURAL CEILING PLANS FOR FIXTURE LENGTHS PRIOR TO ORDERING. VERIFY EXACT GRID TYPE AND MOUNTING TYPE REQUIRED WITH ARCHITECT PRIOR TO ORDERING. COORDINATE FIXTURE COLOR TEMPERATURE WITH OWNER AND ARCHITECT PRIOR TO ORDERING. INCLUDE ALL EXTENSION PIECES AND END CAPS AS NEEDED TO FIT THE ENTIRE COVE LENGTH NEEDED. PROVIDE ADDITIONAL ELECTRICAL CONNECTIONS AS REQUIRED.
NOTES:										
1	OTHER MANUFACTURERS ARE ALLLOWED UPON ARCHITECT/OWNER'S PRIOR APPROVAL.									
2	LIGHT FIXTURES SHALL BE INDEPENDANTLY SUPPORTED TO THE BUILDING STRUCTURE SEPARATE FROM THE CEILING SYSTEM. REFER TO SPECIFICATIONS SECTION 265100 FOR ADDITIONAL INFORMATION.									
3	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND LENGTH OF FIXTURES.									
4	FURNISH AND INSTALL ALL LIGHT FIXTURE MOUNTING HARDWARE REQUIRED FOR A COMPLETE INSALLATION OF LIGHT FIXTURES (IE. PENDANTS, FLANGE KITS, CANOPIES, TONG HANGERS, SAFETY CHAINS, UNI-STRUT, ETC.)									
5	CATALOG NUMBERS MAY NOT REFLECT ALL OF THE REQUIREMENTS INCLUDED IN THE DRAWINGS AND SPECIFICATIONS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND EXISTING SITE CONDITIONS. COORDINATE CEILING TYPES AND MOUNTING TYPES REQUIRED WITH ARCHITECTURAL RCP'S PRIOR TO ORDERING.									
6	COORDINATE FIXTURE COLOR AND LAMP COLOR TEMPERATURE WITH ARCHITECT AND OWNER PRIOR TO ORDERING.									
7	VERIFY ABOVE CEILING CLEARANCE FOR ALL RECESSED FIXTURES PRIOR TO ORDERING.									
LIGHT FIXTURE INSTALLATION:										
A.	SUPPORT FOR LIGHTING FIXTURES IN OR ON GRID-TYPE SUSPENDED CEILINGS:									
B.	INSTALL A MINIMUM OF FOUR CEILING SUPPORT SYSTEM RODS OR WIRES FOR EACH FIXTURE. LOCATE NOT MORE THAN 6 INCHES FROM LIGHTING FIXTURE CORNERS. RODS/WIRE MUST BE INSTALLED FROM STRUCTURE AND SIZED IN ORDER TO SUPPORT EACH FIXTURE INDEPENDENTLY OF GRID. WIRE SHALL HAVE BREAKING STRENGTH OF THE WEIGHT OF THE FIXTURE AT A SAFETY FACTOR OF 3 TIMES UNITS WEIGHT. PROVIDE NO MORE THAN 2" OF SLACK IN EACH FIXTURE SUPPORT CABLE AFTER FIXTURES HAVE BEEN INSTALLED WITHIN GRID.									
C.	SUPPORT CLIPS: FASTEN TO LIGHTING FIXTURES AND TO CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE CORNER WITH CLIPS THAT ARE UL LISTED FOR THE APPLICATION, PER NEC 410-16-C.									
D.	FIXTURES OF SIZES LESS THAN CEILING GRID: INSTALL AS INDICATED ON REFLECTED CEILING PLANS OR CENTER IN ACOUSTICAL PANEL, AND SUPPORT FIXTURES INDEPENDENTLY WITH AT LEAST TWO 3/4-INCH METAL CHANNELS SPANNING AND SECURED TO CEILING TEES. INSTALL AT LEAST ONE INDEPENDENT SUPPORT ROD OR WIRE FROM STRUCTURE TO A TAB ON EACH END OF LIGHTING FIXTURE. WIRE OR ROD SHALL HAVE BREAKING STRENGTH OF THE WEIGHT OF FIXTURE AT A SAFETY FACTOR OF 3.									
E.	ALL JUNCTION BOXES USED FOR SUPPORTING LIGHT FIXTURES WILL BE HEAVY DUTY UL LISTED FOR THE APPLICATION. DO NOT SUPPORT FROM CEILING GRID. SUPPORT FROM STRUCTURE AND USE GRID TO STABILIZE UNIT.									

LIGHTING CONTROL SEQUENCE OF OPERATION	
ROOMS DESCRIPTION	LIGHTING CONTROL
RESTROOM	OCCUPANCY SENSOR CONTROLLED WITH WALL MOUNTED KEYED SWITCH. AUTO ON, AUTO OFF WHEN UNOCCUPIED. EMINL FIXTURES SHALL REMAIN ON 100% OF THE TIME
LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS THE ACUITY NLIGHT PRODUCT. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SOFTWARE AND HARDWARE TO PROVIDE A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM INCLUDING BUT NOT LIMITED TO BRIDGES, SMART SENSORS (OCCUPANCY AND PHOTOSENSOR), WALL STATIONS, POWER SUPPLIES, COMMUNICATIONS MODULES, CABLING, START UP AND COMMISSIONING. CONTRACTOR SHALL INCLUDE TASK TUNING LIGHTING DURING FINAL SETUP. REFER TO FLOOR PLAN FOR ZONING.	
ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED CONDUIT AND WIRING FOR AND BETWEEN ALL DEVICES PER MANUFACTURER REQUIREMENT. ELECTRICAL CONTRACTOR TO INSTALL CAT6A PLENUM RATED CABLE BACK TO IDF/MDF CLOSET AND COORDINATE FINAL TERMINATION WITH THE OWNER. ELECTRICAL CONTRACTOR TO COORDINATE WITH THE OWNER FOR SOFTWARE INSTALLATION AND ACCESS TO WINDOW/BASE SERVER. ELECTRICAL CONTRACTOR TO PROVIDE TRAINING TO THE OWNER, PROGRAMING AND TROUBLESHOOTING THE LIGHTING CONTROL SYSTEM	

LIGHTING SYMBOL LIST		
DIAGRAM SYMBOL	PLAN SYMBOL	DESCRIPTION
		WALLPOD: KEYED SWITCH ON/OFF, 1-POLE, LOW VOLTAGE nLIGHT #nPODA KEY-WH
		CEILING MOUNTED, DUAL-TECH, LOW VOLTAGE VACANCY SENSOR WITH REAR PORT CONNECTION. nLIGHT #High Mount 280" (Model # CM 10) / (Model # CM 9)
	N/A	nLIGHT SERIES RELAY/POWER PACK FOR CIRCUIT CONTROL- PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #NPP16

- GENERAL NOTES
1.

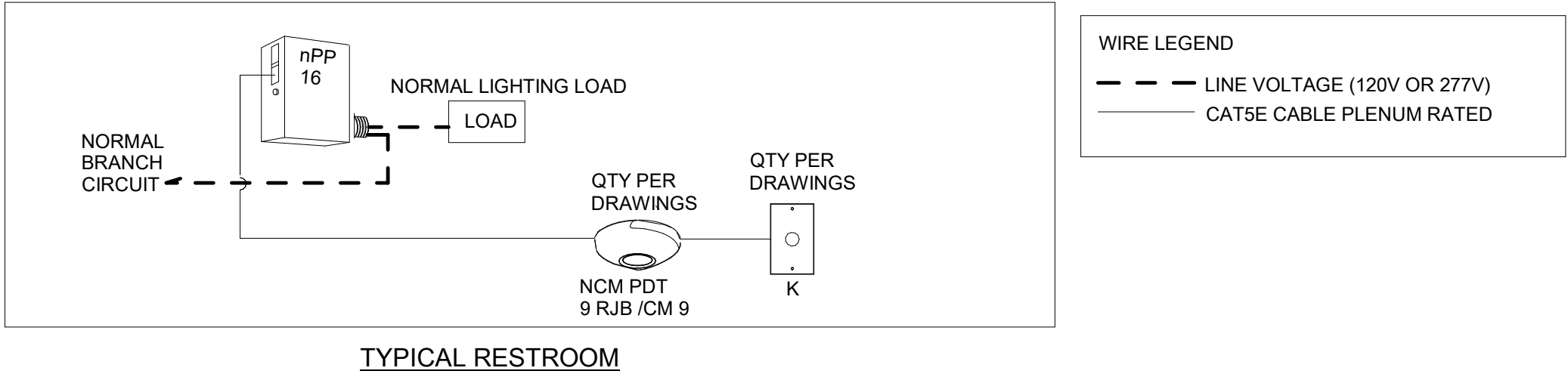
OCCUPANCY SENSOR, DAYLIGHT SENSOR, AND SWITCH QUANTITIES: PROVIDE QUANTITIES OF NOTED DEVICES AS SHOWN ON FLOOR PLANS, BUT NO LESS THAN ONE OF EACH DEVICE INDICATED ON THE WIRING DIAGRAMS. LIGHTING CONTROLS VENDOR MUST PROVIDE ALL ADDITIONAL APPARATUSES AND DEVICES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM AS NOTED ON THIS SHEET, ON THE DRAWING SET, AND AS REQUIRED IN THE PROJECT SPECIFICATION BOOK.
2.

LIGHTING VENDOR TO CONFIRM QUANTITIES AND TYPE OF RELAY POWER PACKS REQUIRED MEET PROJECT SPECIFICATIONS AND DESIGN DRAWINGS. ALL LAYOUTS SHOW MINIMUM NUMBER OF DEVICES AND MUST BE EXPANDED TO APPLY TO EACH SPACE WITHIN PROJECT.
3.

POWER LOSS SENSE CIRCUIT: EMERGENCY POWER PACKS MUST HAVE NON-EMERGENCY LIGHTING BRANCH CIRCUIT PROVIDED FOR PROPER POWER-LOSS SENSING. PROVIDE NON-EMERGENCY BRANCH CIRCUIT AHEAD OF LIGHTING CONTROLS FROM NEAREST LOCAL LIGHTING BRANCH. LIGHTS FED FROM NON-EM BRANCH MUST SERVE SAME AREA AS EMERGENCY LIGHTS.
4.

PROVIDE PLENUM RATED CAT-5 INTERCONNECTION ACROSS MULTIPLE SPACES FOR ALL NLIGHT CONTROL SYSTEMS TO PROVIDE FLEXIBILITY FOR FUTURE NETWORKING.
5.

COORDINATE FINAL LOCATION FOR LIGHT SWITCHES AND SENSORS WITH THE ARCHITECT.



FIRE ALARM SYSTEM GENERAL NOTES: (EXISTING SYSTEM)

- FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL NEW FIRE ALARM DEVICES IN LOCATIONS GIVEN AND WIRE BACK TO EXISTING FIRE ALARM CONTROL PANEL.
ALL FIRE ALARM WIRING TO BE PLENUM RATED AND INSTALLED IN RED RACEWAY. ALL RACEWAY IN FINISHED AREAS TO BE OF THE METALLIC WIREMOLD TYPE (COLOR SELECTED BY ARCHITECT). WHERE CONDUIT IS USED AS THE PREDOMINATE TYPE OF RACEWAY CONDUIT MAY BE USED (AT ARCHITECT'S DISCRETION) AND MUST BE PAINTED OUT TO MATCH SURROUNDING AREA.
ANY SURFACE MOUNTED RACEWAY TYPE ON FINISHED WALL IN OCCUPIED SPACES SHALL BE SELECTED BY ARCHITECT INCLUDING COLOR.
- PRIOR TO SUBMITTING BID, CONTRACTOR SHALL WALK EACH BUILDING AND BECOME FAMILIARIZED WITH THE BUILDING CONSTRUCTION. TAKE NOTE TO ALL CEILING AND WALL MATERIALS PRIOR TO BIDDING. NO ADDITIONAL COST WILL BE INCURRED BY THE OWNER FOR WORK THAT COULD HAVE BEEN REASONABLY DETERMINED AND/OR AVOIDED HAD THE CONTRACTOR FIELD VERIFIED EXISTING BUILDING CONSTRUCTION TYPE AND CONDITIONS PRIOR TO BIDDING.
- FIRE ALARM CONTRACTOR TO MOUNT VISUAL STROBES AT 80" AFF TO BOTTOM OF BOX OR AS REQUIRED BY LOCAL JURISDICTION.
- FIRE ALARM CONTRACTOR TO MOUNT PULL STATIONS AT 48" AFF TO TOP OF BOX. OPERATING HANDLE HEIGHT NOT TO EXCEED 48" AFF.
- FIRE ALARM CONTRACTOR SHALL VERIFY THAT ALL FIRE ALARM DEVICES CONFORM TO ILLINOIS ACCESSIBILITY CODE REQUIREMENTS.
- FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL FIRE ALARM ZONE MAP IN A PLEXI-GLASS FRAME WHEN NEW INITIATING DEVICES ARE INSTALLED. MAPS TO BE MOUNTED NEXT TO CONTROL AND ANNUNCIATOR PANELS. GIVE (5) COPIES TO OWNER. SHOW ALL INITIATING DEVICES AND NAC PANELS. MAPS SHALL BE LEGIBLE AND OF A SIZE NO LARGER THAN 17"x22" UNLESS OTHERWISE AGREED UPON BY THE OWNER AND ENGINEER. DEVICES AND TEXT (I.E. ROOM NUMBERS) SHALL BE OF A SIZE SO AS TO BE CLEARLY LEGIBLE. TEXT TO BE A MINIMUM 3/32" IN HEIGHT.
- TAMPER SWITCHES TO INDICATE "SUPERVISORY" ONLY.
- EACH SIGNAL CIRCUIT SHALL NOT EXCEED 1.3 AMPS. ADJUST WIRE SIZES TO LIMIT VOLTAGE DROP AS PER NFPA 72 AND LOCAL CODE.
- PROVIDE AND INSTALL ADDITIONAL POWER SUPPLIES/EXTENDER PANELS ("NAC" PANELS) AND VOICE AMP PANELS AS REQUIRED FOR PROPER OPERATION OF NOTIFICATION CIRCUITS AND TO MINIMIZE WIRING RUNS TO FIRE ALARM CONTROL PANEL AND TO MEET SLC CIRCUIT DISTANCE LIMITATIONS. "NAC" PANELS SHALL BE INSTALLED IN JANITOR CLOSETS OR STORAGE ROOMS IF APPROVED BY THE OWNER. "NAC" PANELS WILL NOT BE INSTALLED ABOVE CEILINGS OR IN CEILING SPACES.
- PROVIDE AND INSTALL RED PREFINISHED BACK BOX WHERE SURFACE MOUNTED BOXES ARE REQUIRED. INSTALL MANUFACTURER TRIM PLATE AS REQUIRED. COORDINATE COLOR PRIOR TO ORDERING.
- CONTRACTOR SHALL MAINTAIN AN OPERABLE FIRE ALARM SYSTEM AT ALL TIMES. AT NO TIME SHALL THE BUILDING BE LEFT UNPROTECTED WITHOUT NOTIFICATION IN WRITING TO OWNER AND FIRE DEPARTMENT. MINIMUM 48 HOURS ADVANCED NOTICE IS REQUIRED. CONTRACTOR SHALL HIRE FIRE DEPARTMENT APPROVED GUARD/FIRE DEPARTMENT PERSONNEL TO WATCH BUILDING WHEN LEFT UNPROTECTED. MINIMIZE SYSTEM DOWN TIME TO THE FULLEST EXTENT POSSIBLE.
- CONTRACTOR SHALL PROVIDE BATTERY BACKUP IN ORDER TO OBTAIN 24 HOURS OF STAND BY OPERATION IN THE EVENT OF A POWER FAILURE, THEN 2 HOURS OF ALARM TIME OR 15 MINUTES OF EMERGENCY ALARM OPERATION THEREAFTER AT MAXIMUM LOAD.
- PROGRAM FIRE ALARM CONTROL PANEL TO DISPLAY ADDRESSABLE DEVICE TYPE, ITS ADDRESS AND ITS RESPECTIVE LOCATION. EXACT ROOM NAMES AND NUMBERS SHALL BE VERIFIED IN THE FIELD WITH THE OWNER. DO NOT USE ROOM NAME AND NUMBER INFORMATION INDICATED ON THE DRAWINGS WITHOUT ARCHITECT/OWNERS CONSENT IN WRITING. PRIOR TO PROGRAMMING FIRE ALARM CONTROL PANEL, SURVEY THE BUILDING WITH THE ARCHITECT/OWNER TO OBTAIN THE CORRECT ROOM NAME AND NUMBERING INFORMATION TO BE DISPLAYED ON THE CONTROL PANEL AND ANNUNCIATOR PANEL. SURVEYING AND PROGRAMMING OF THE CONTROL PANEL AS DESCRIBED ABOVE WILL BE DONE BY THE CONTRACTOR AS PART OF THIS CONTRACT.
- SET EACH INITIATING DEVICE WITH ADDRESSABLE STATION NUMBER AS REQUIRED. LABEL EACH DEVICE WITH ADDRESS NUMBER. PROVIDE LIST OF ADDRESSABLE DEVICE LOCATION NUMBERS TO OWNER. LABEL EACH NOTIFICATION DEVICE WITH CIRCUIT INFORMATION. INCLUDE BAR CODE ON EACH DEVICE AS WELL. SEE SPECIFICATIONS.
- CONTRACTOR SHALL TURN OVER ALL SMOKE DETECTOR DUST CAPS TO OWNER UPON COMPLETION OF PROJECT.
- SMOKE AND/OR HEAT DETECTORS SHALL BE INSTALLED A MINIMUM OF 6 FEET AWAY FROM AIR SUPPLY OR AIR RETURN DIFFUSER GRILLES SO AS PREVENT FALSE ALARMS.
- THE CONTRACTOR SHALL PERFORM AN INITIAL SYSTEM CHECKOUT TO DETERMINE FUNCTIONABILITY OF THE EXISTING SYSTEM PRIOR TO THE START OF WORK. PROVIDE DOCUMENTATION TO THE OWNER IDENTIFYING ANY FIRE ALARM COMPONENTS NOT CURRENTLY WORKING. IF THIS DOCUMENT IS NOT PROVIDED TO THE OWNER PRIOR TO THE START OF WORK, THE CONTRACTOR IS ACKNOWLEDGING THAT ALL EXISTING SYSTEM COMPONENTS ARE IN PROPER WORKING ORDER.
- FIRE ALARM SYSTEM DEMOLITION WORK SHALL BE PERFORMED AS SOON AS PRACTICAL IN ORDER TO LEAVE SUFFICIENT TIME DURING CONSTRUCTION TO CORRECT ANY PROBLEMS ENCOUNTERED WITH THE WIRING SYSTEM. THE CONTRACTORS SCOPE OF WORK SHALL INCLUDE REMOVAL OF FIRE ALARM DEVICES SHOWN ON DEMOLITION PLAN (TO BE REMOVED) AND TO ASCERTAIN ANY WIRING PROBLEMS OR ILLEGAL T-TAPPING OF HARD WIRED INITIATING AND NOTIFICATION CIRCUITS AS THEY MAY HAVE AN AFFECT ON ALL REMAINING DEVICES. PROVIDE A WRITTEN REPORT TO THE OWNER IDENTIFYING ALL DEFECTIVE DEVICES OR IMPROPER WIRING CONDITIONS.
- IN FINISHED AREAS WHERE EXISTING SURFACE MOUNTED BACKBOXES, WIREMOLD OR CONDUIT HAVE BEEN REMOVE, PATCH AND PAINT WALLS AND/OR CEILINGS TO MATCH SURROUNDING AREAS. COORDINATE WITH THE ARCHITECT AND OWNER. NEW DEVICES AND RACEWAYS MAY BE MOUNTED AT NEW LOCATIONS.
- ANY PORTIONS OF EXISTING CEILINGS TO BE REMOVED BY CONTRACTOR FOR INSTALLATION OF THEIR WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. MATCH EXISTING CEILING MATERIAL, PATCH AND PAINT AS REQUIRED. CONTRACTOR SHALL ARCHIVE AND DOCUMENT ALL EXISTING CEILING CONDITIONS ELECTRONICALLY PRIOR TO BEGINNING THE PROJECT. IF ANY DAMAGE IS FOUND THEY SHALL BRING IT TO THE ATTENTION OF THE OWNER IN WRITING PRIOR TO PERFORMING WORK. IF THIS DOCUMENTATION IS NOT PROVIDED THE CONTRACTOR IS ASSUMING THE LIABILITY FOR REPLACING ALL DAMAGED CEILING SYSTEMS DISCOVERED AFTER THE COMPLETION OF THE PROJECT. ALL DAMAGED CEILING SYSTEMS WILL BE REPLACED AT THE CONTRACTORS EXPENSE. PROVIDE WRITTEN DOCUMENTATION TO THE OWNER AT THE PRE-CONSTRUCTION MEETING.
- ALL WALL AND FLOOR PENETRATIONS SHALL BE SLEEVED AND FIREPROOFED.
- THE CONTRACTOR SHALL COORDINATE PROJECT SCHEDULING WITH THE OWNER TO ACCOMODATE ALL SCHOOL PROGRAMS. THE SCHOOL WILL OCCUPY ONLY AREAS DETERMINED TO BE SAFE AND NOT UNDER CONSTRUCTION PER THE AGREED UPON SCHEDULE. COORDINATE SCHEDULING OF WORK WITH THE OWNER UPON AWARD OF BID.
- CONTRACTOR SHALL INCLUDE ALL EXPENSES FOR LOCATING AND REPLACING ALL EXISTING END-OF-LINE RESISTORS IN ORDER TO ALLOW EXISTING DEVICES TO BE COMPATIBLE WITH THE NEW SYSTEM AND/OR EXISTING (NEWER) CONTROL PANEL.
- ALL NEW PULL STATIONS LOCATED NEAR VESTIBULES SHALL BE COORDINATED WITH ARCHITECT/FIRE DEPARTMENT PRIOR TO INSTALLATION. IN SOME CASES, THE FIRE DEPARTMENT MAY REQUIRE DEVICES TO BE INSTALLED WITHIN THE VESTIBULE. INCLUDE ALL ASSOCIATED COST FOR RELOCATION OF DEVICES TO THE VESTIBULE PER THE FIRE DEPARTMENTS DIRECTION.
- INITIATING DEVICE, NOTIFICATION APPLIANCE AND SIGNALING LINE CIRCUITS: MEET NFPA 72 REQUIREMENTS.

INITIATING DEVICE CIRCUITS: CLASS A, LEVEL 1.
NOTIFICATION APPLIANCE CIRCUITS: CLASS A, LEVEL 1.
SIGNALING LINE CIRCUITS: CLASS A, LEVEL 1.
INSTALL NO MORE THAN 200 TOTAL ADDRESSABLE DEVICES ON EACH SIGNALING LINE CIRCUIT.
INCLUDE NO MORE THAN 125 INITIATING DEVICES AND 75 MODULES.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER SPECIFICATIONS. INCLUDE ONE LINE RISER DIAGRAMS AND POINT-TO-POINTS. INCLUDE ACTUAL BUILDING WIRING PLANS SHOWING WIRING OF ALL DEVICES. WIRE ALL DEVICES FROM DEVICE-TO-DEVICE. DO NOT INSTALL INTERMEDIATE JUNCTION BOXES FOR T-TAPS.

FIRE ALARM CONTRACTOR SHALL BE A LICENSED STATE OF ILLINOIS FIRE ALARM CONTRACTOR HOLDING AT LEAST A NICET LEVEL 2 CERTIFICATION.

SYSTEM INSTALLATION SHALL BE TESTED AND CERTIFIED PER NFPA 72 REQUIREMENTS. SYSTEM TESTING MUST BE REVIEWED AND ACCEPTED BY THE LOCAL FIRE DEPARTMENT.

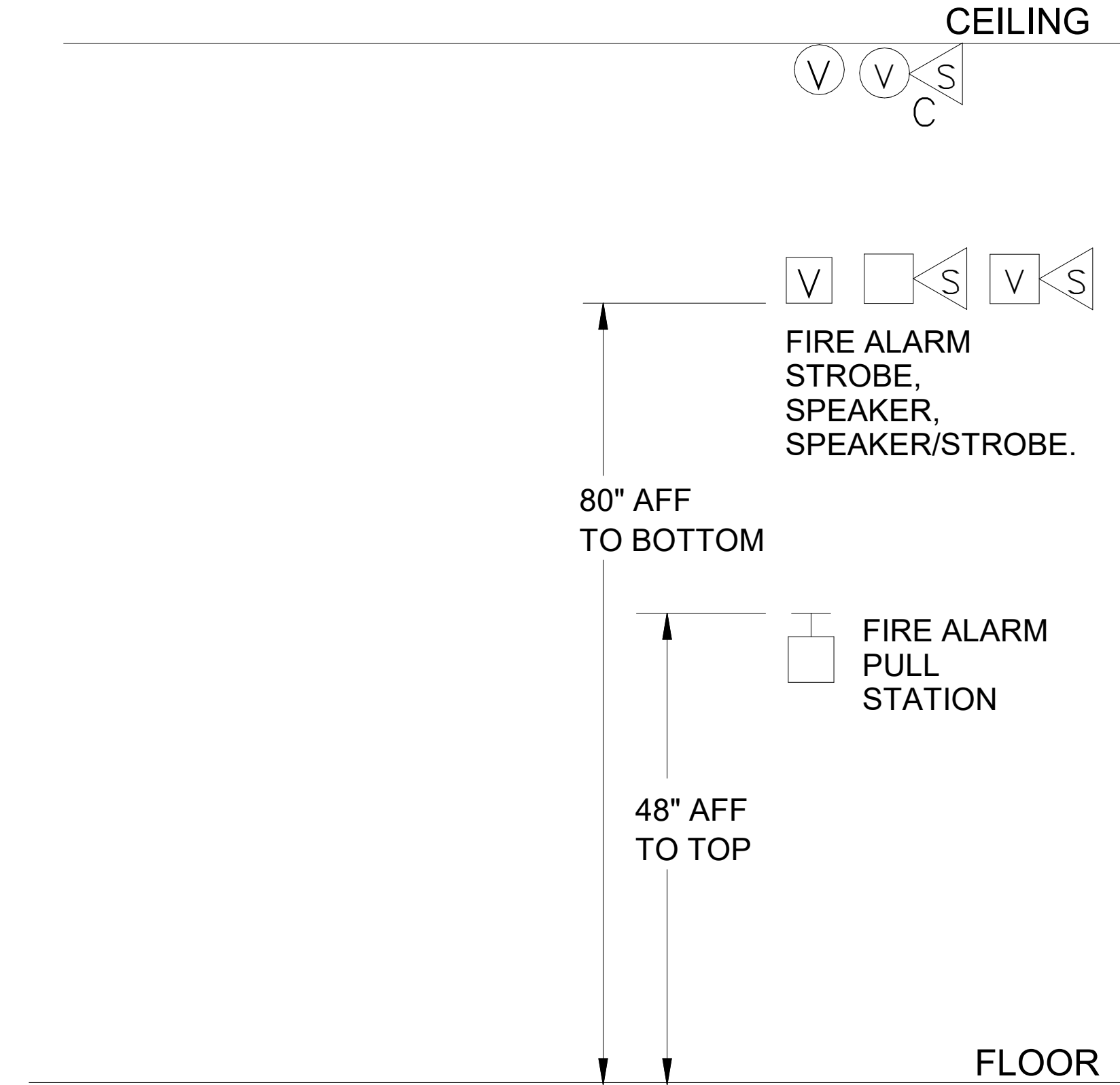
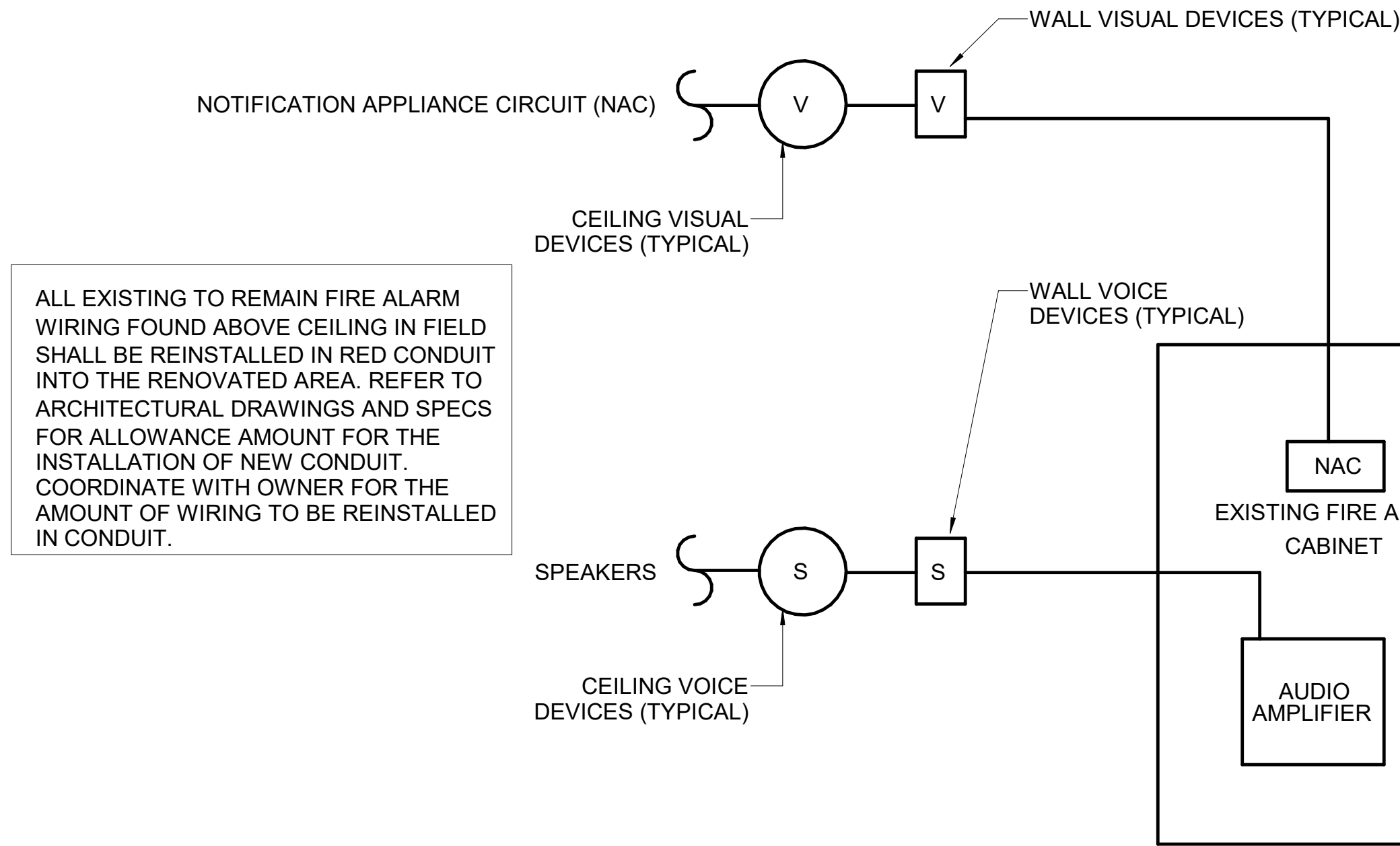
ALL WORK SHALL BE PERFORMED BY THE COLLEGE'S FIRE ALARM INTEGRATOR OF RECORD:
FOR SYSTEM UPGRADES, PARTS AND INSTALLATION CONTACT:
BRIAN SCHMID - 630.961.5900 - b.schmid@first-sec.com
FIRST SECURITY SYSTEMS, INC.
1811 HIGH GROVE, SUITE 191, NAPERVILLE, IL 60540

FOR SYSTEM PROGRAMMING CONTACT:
STEPHEN HUPP - 847.217.7509
FIRE SAFETY & SECURITY LIFE CYCLE SALES EXECUTIVE
SIEMENS SMART INFRASTRUCTURE
585 SLAWIN CT., MOUNT PROSPECT, IL 60056

UPON COMPLETION OF ALL FIRE ALARM WORK, THE CONTRACTOR SHALL TURN OVER ALL SYSTEM PASSCODES TO THE OWNER FOR SAFEKEEPING. INCLUDE ALL DOCUMENTATION SHOWING TRANSFERRING OF PASSCODES TO THE OWNER.

1 EXISTING FIRE ALARM RISER DIAGRAM

NOT TO SCALE



- NOTES:
- ALIGN DEVICES VERTICALLY WHERE POSSIBLE.
 - DEVICE BACK BOXES SHALL MATCH FACEPLATE CONFIGURATION (I.E. SINGLE-GANG, TWO-GANG, ETC...).
 - REFER TO GENERAL ELECTRICAL AND FIRE ALARM NOTES FOR ADDITIONAL INFORMATION.

2 FIRE ALARM DEVICE MOUNTING DETAIL

NOT TO SCALE

		FACP ANNUNCIATION/CONTROL FEATURES									
		ACTUATE MAIN FACP CABINET COMMON ALARM SIGNAL INDICATOR	ACTUATE MAIN FACP CABINET AUDIBLE ALARM SIGNAL	ACTUATE MAIN FACP CABINET COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE MAIN FACP CABINET AUDIBLE SUPERVISORY SIGNAL	ACTUATE MAIN FACP CABINET COMMON TROUBLE SIGNAL INDICATOR	ACTUATE MAIN FACP CABINET AUDIBLE TROUBLE SIGNAL	ACTUATE AUDIBLE ALARM NOTIFICATION DEVICES	ACTUATE VISUAL ALARM NOTIFICATION DEVICES		
INPUTS TO FIRE ALARM SYSTEM	MANUAL PULL STATIONS	X	X					X	X		
	OPEN CIRCUIT, SHORT CIRCUIT, GROUND FAULT					X	X				
	FACP, TRANSPONDER, NAC AC POWER FAILURE					X	X				
	FACP, TRANSPONDER, NAC LOW BATTERY			X	X						
	FACP, TRANSPONDER, NAC BATTERY OR CHARGER FAILURE					X	X				
	NAC OR SLC LOOP OPEN CIRCUIT, SHORT CIRCUIT, GROUND FAULT					X	X				
	INITIATION DEVICE FAILURE OR COMMUNICATION FAILURE					X	X				
	FIRE ALARM PANEL MANUAL FIRE DRILL			X	X			X	X		
	FACP, TRANSPONDER, NAC ABNORMAL SWITCH OR CONTROL POSITION			X	X						

GENERAL NOTES:

- THIS RISER DIAGRAM IS DIAGRAMMATICAL AND IS NOT INTENDED TO REFLECT QUANTITIES, THE NUMBER OF CIRCUITS REQUIRED, OR DISTANCES.
- THE CONTRACTOR SHALL FURNISH AND INSTALL NEW NAC AND AMP PANELS AS REQUIRED.
- THE COMPLETE FIRE ALARM SYSTEM SHALL MEET ALL APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
- ALL VISUAL DEVICES SHALL BE SYNCHRONIZED.
- ALL +120VAC WIRING REQUIRED FOR OPERATION OF THE SYSTEM SHALL BE CONNECTED TO LOCAL 120V EMERGENCY POWER PANEL AND PROVIDED BY THE ELECTRICAL CONTRACTOR AS REQUIRED.
- ALL NECESSARY RELAYS MAY NOT BE SHOWN IN THESE PLANS, BUT WHERE REQUIRED FOR PROPER OPERATION OF THE SYSTEM THEY SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ALL WIRING SHALL BE INSTALLED IN RED CONDUIT ABOVE CEILINGS.
- ALL ROUGH-IN FOR FIRE ALARM DEVICES SHALL BE FLUSH MOUNTED IN WALLS. CUT, PATCH, AND PAINT AS REQUIRED. NO EXPOSED RACEWAYS WILL BE ALLOWED UNLESS APPROVED BY THE ARCHITECT AND OWNER IN WRITING.

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KEY PLAN

ISSUE CHART

1	ISSUE FOR BID	09 JUN 25
DATE	DATE	DATE
Job Number	021075.001	TITLE

FIRE ALARM RISER AND
DETAILS

SHEET NUMBER

E51-01

GENERAL ELECTRICAL NOTES:

1. PRIOR TO SUBMITTING THIS BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND THOROUGHLY ACQUAINT THEMSELVES WITH ALL EXISTING CONDITIONS AND DETERMINE HOW THEY EFFECTIVELY WORK. THEY SHALL INCLUDE IN THEIR BID ANY ALTERATION, RELOCATION, REROUTING, ETC., OF EXISTING FACILITIES. WIRING, CONDUIT, PANELBOARDS REQUIRED FOR INSTALLATION OF NEW WORK UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE GIVEN CONSIDERATION FOR ADDITIONAL COMPENSATION DUE TO THEIR NEGLECT TO COMPLY WITH FOREGOING REQUIREMENTS.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CODES:
2015 INTERNATIONAL BUILDING CODE
2014 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL FIRE CODE, NFPA 72
ILLINOIS ACCESSIBILITY CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
IN ADDITION TO THE ABOVE, FOLLOW ALL LOCAL CODES AND AMENDMENTS, UTILITY COMPANY REQUIREMENTS AND ANY OTHER REQUIREMENTS APPLICABLE TO THIS JOB. ELECTRICAL CONTRACTOR SHALL SUBMIT ANY REQUIRED DRAWINGS FOR APPROVAL TO ANY AGENCIES REQUIRING THEM AND OBTAIN NECESSARY PERMITS AT NO ADDITIONAL BID COSTS. ALL EQUIPMENT SHALL BE NEMA STANDARDS AND SHALL BE U.L. LISTED.
3. MOUNT RECEPTACLES, DATA JACKS AND TELEPHONE JACKS AT 16" AFF TO BOTTOM UNLESS OTHERWISE INDICATED.

RECEPTACLES FOR GENERAL POWER SHALL BE NEMA 5-20R "TAMPER RESISTANT" HEAVY DUTY SPEC GRADE DUPLEX RECEPTACLE, WHITE IN COLOR UNLESS OTHERWISE DIRECTED BY THE ARCHITECT/OWNER. CONTROLLED RECEPTACLES SHALL BE NEMA 5-20R "TAMPER RESISTANT" LEGRAND TR5382 SERIES, WHITE IN COLOR UNLESS OTHERWISE DIRECTED BY THE ARCHITECT/OWNER.

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

REFER TO TECHNOLOGY NOTES AND DETAILS FOR ADDITIONAL INFORMATION ON DATA AND TELEPHONE JACKS.
4. ALL SPECIAL RECEPTACLES INDICATED ON DRAWINGS BY ☼ SHALL BE COORDINATED WITH THE OWNERS EQUIPMENT PLUG CONFIGURATION SO THAT NO CONFLICTIONS OCCUR BEFORE INSTALLATION. VERIFY WIRE SIZE AND QUANTITY WITH PLUG CONFIGURATION AS WELL (I.E. COPIER, RANGE/OVEN).
5. MOUNT WALL SWITCHES AT 48" AFF TO TOP. SWITCHES IDENTIFIED AS 120VOLT RATED SHALL BE 20 AMP RATED HEAVY DUTY SPEC GRADE, WHITE IN COLOR UNLESS OTHERWISE INDICATED. COORDINATE COLOR WITH ARCHITECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHEN USING LINE VOLTAGE SWITCHES, INCLUDE NEUTRAL WIRE PER CODE.
6. REFER TO ALL ARCHITECTURAL AND CASEWORK DRAWINGS DURING INSTALLATION OF ALL SWITCHES, RECEPTACLES, TELEPHONE JACKS, DATA JACKS, JUNCTION BOXES, CLOCKS, VISUAL STROBES/HORN DEVICES, RULL STATIIONS AND OTHER DEVICES SO THAT NO CONFLICTIONS WILL BE ENCOUNTERED. INFORM ARCHITECT OF ANY CONFLICTS THAT DO OCCUR BEFORE THE INSTALLATION OF ABOVE LISTED DEVICES.
7. MOUNT CONDUIT AND ELECTRICAL DEVICES FROM THE TOP CHORD OF BAR JOISTS ONLY. DO NOT RUN CONDUITS ABOVE TOP CHORD OF BAR JOIST, THROUGH WEB OF ROOF DECKING MATERIAL ABOVE OR WITHIN 8" OF ROOF DECK SO AS TO PREVENT DAMAGE FROM ROOFING NAILS.
8. MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG FOR POWER AND LIGHTING BRANCH CIRCUITS. USE #10 AWG MINIMUM IF RUNS ARE OVER 75 FEET. MINIMUM SIZE FOR "EMERGENCY CIRCUITS" SUCH AS EXIT SIGN AND EMERGENCY/NIGHT LIGHTS SHALL BE MINIMUM #10 AWG. SIZE ALL CONDUCTORS IN ACCORDANCE WITH N.E.C. SECTION 310-15. MAINTAIN PROPER CONDUIT FILL CAPACITIES AND SIZE CONDUCTORS IN ACCORDANCE WITH ADJUSTMENT FACTORS LISTED IN N.E.C. 310-15 TABLE NOTE 8(b) (MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY). USE MULTIPLE PARALLEL RACEWAYS TO AVOID DERATING OF CONDUCTOR CAPACITIES, OTHERWISE INCREASE SIZE OF CONDUCTORS SO AS TO FOLLOW N.E.C. REQUIREMENTS.
9. ELECTRICAL CONTRACTOR SHALL SIZE ALL CONDUCTORS OVER 75 FEET SO AS TO MAINTAIN A VOLTAGE DROP EQUAL TO OR LESS THAN 2%.
10. BALANCE ALL PHASE WIRES WITHIN 5%.
11. INSTALL A SEPARATE DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE OF BOTH LIGHTING AND POWER MULTI-WIRE BRANCH CIRCUITS. IF A MULTI-WIRE BRANCH CIRCUIT CONTAINS THREE PHASE WIRES, THE CIRCUIT WILL REQUIRE THREE DEDICATED NEUTRALS.
THE USE OF MULTIPLE BRANCH BREAKERS TO ELIMINATE NEUTRAL CONDUCTORS IS NOT ALLOWED.
12. FOR ALL RECEPTACLES AND LIGHTING FIXTURES THAT DO NOT HAVE CIRCUIT INFORMATION PROVIDED, THE CONTRACTOR WILL CONNECT THESE DEVICES TO THE NEAREST AVAILABLE POWER PANEL (SPARE CIRCUIT (OF MATCHING VOLTAGE) FOR THE DEVICE. CONTRACTOR ALSO HAS THE OPTION TO CONNECT TO THE LINE SIDE OF THE NEAREST AVAILABLE CIRCUIT IN THE AREA OF SUFFICIENT SIZE, PROVIDED THERE IS NO DETRIMENTAL EFFECTS IN DOING SO TO THE CIRCUIT CONNECTED TO.
13. INSTALL GROUNDING WIRE TO ALL DEVICES. USE GREEN WIRE. CONNECT THE GROUND WIRE TO A DEDICATED GROUND TERMINAL IN ALL DEVICE BOXES AND TO THE DEVICE GROUNDING WIRE.
14. STUB CONDUITS FOR ALL TELEPHONE JACKS, DATA JACKS, VIDEO JACKS, ETC., OUT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR TO CORRIDOR CABLE TRAY IF PRESENT. INSTALL END BUSHINGS AND FITTINGS ON END OF EACH CONDUIT STUB IN ORDER TO PROTECT CABLING.
15. ALL JUNCTION BOXES ABOVE CEILINGS SHALL HAVE PANEL AND CIRCUIT INFORMATION IDENTIFIED ON OUTSIDE OF COVERPLATE. ALL RECESSED WALL MOUNTED/FLOOR MOUNTED JUNCTION BOXES SHALL HAVE PANEL AND CIRCUIT INFORMATION IDENTIFIED ON THE INSIDE OF THE JUNCTION BOX TOWARD FRONT OF BOX LIP SO AS TO BE VISIBLE WITHOUT REMOVING WIRING DEVICE.
16. ALL JUNCTION BOXES INSTALLED ABOVE LAY-IN CEILINGS MUST BE INSTALLED BELOW FIREPROOF/GYPSUM CEILING. BOXES MUST NOT BE INSTALLED WITHIN GYPSUM CEILING MATERIAL. ALL CONDUIT PENETRATIONS THROUGH GYPSUM CEILING MUST BE FIREPROOFED/PATCHED.
17. FURNISH AND INSTALL NEMA 3R ELECTRICAL DEVICES FOR ALL EXTERIOR LOCATIONS.
18. "EMT" CONDUIT WILL NOT BE INSTALLED IN CONCRETE SLABS. ALL CONDUIT WILL BE INSTALLED PER SPECIFICATION SECTION 285033.
19. ALL UNDERGROUND WIRING WILL BE IN CONDUIT AND WILL BE INSTALLED PER N.E.C. AND LOCAL CODES AND COORDINATED IN FIELD PRIOR TO INSTALLATION.
20. SLEEVE AND FIREPROOF ALL PENETRATIONS THROUGH WALLS AND FLOORS. ALL CORING BY CONTRACTOR SHALL BE COORDINATED WITH ARCHITECT. PROVIDE AND INSTALL EXPANSION FITTINGS ON ALL CONDUITS AT BUILDING EXPANSION JOINTS. REFER TO ARCHITECTURAL.
21. CIRCUIT BREAKERS SERVING FIRE ALARM CONTROL PANEL, SECURITY CONTROL PANEL, EMERGENCY LIGHTS/NIGHT LIGHTS, EXIT SIGNS AND POWER FOR SHUNT TRIP BREAKERS SHALL HAVE LOCK OUT DEVICE INSTALLED ON BREAKER TO PREVENT ACCIDENTAL TURN OFFS.
22. ALL NEW RECESSED PANELS BEING INSTALLED SHALL HAVE A MINIMUM OF (3) SPARE 3/4" CONDUITS STUBBED UP IN WALL AND DOWN BELOW FLOOR LINE WHEN LOWER LEVEL IS PRESENT TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.
23. ALL HOUSEKEEPING PADS INDICATED ON DRAWINGS SHALL BE 4" THICK REINFORCED CONCRETE. REFER TO ARCHITECTURAL FOR PARTIAL DETAIL.
24. FOR EXISTING ELECTRICAL PANELBOARDS AFFECTED BY NEW WORK, CONTRACTOR SHALL REVIEW EXISTING PANEL CARD DIRECTORIES AND VERIFY CORRECTNESS BY TRACING BRANCH CIRCUITS. UPDATE AND RECORD INFORMATION ON NEW TYPED PANEL CARD DIRECTORY. VERIFY CURRENT ROOM NAMES AND NUMBERS IN THE FIELD. DO NOT USE ROOM NAMES AND NUMBERS INDICATED ON THE DRAWINGS.
25. INSTALL BLANK PREFINISHED STAINLESS STEEL COVERPLATES ON ALL JUNCTION BOXES IN FINISHED AREAS NO LONGER USED AND CREATED BY DEMOLITION. USE BLANK GALVANIZED STEEL COVERPLATES FOR ALL BOXES ABOVE CEILINGS OR IN EXPOSED NON-FINISHED AREAS.
26. ALL OUTLETS, VIDEO JACKS, CLOCKS, PROGRAM BELLS, FIRE ALARM DEVICES, SECURITY DEVICES, SPEAKERS, ETC., CONFLICTING WITH NEW CEILINGS/CEILING HEIGHTS SHALL BE RELOCATED ATOR BELOW NEW CEILINGS, WHICHEVER APPLIES. CONTRACTOR SHALL FURNISH AND INSTALL NEW JUNCTION BOXES, RACEWAY AND WIRING AS REQUIRED FOR EXTENDING SYSTEMS. ALL EXPOSED RACEWAYS SHALL BE OF THE WIREMOLD TYPE.
27. WHERE EXISTING CONDUIT AND WIRE CONFLICTS WITH NEW LIGHT FIXTURES BEING INSTALLED, CONTRACTOR SHALL REROUTE AROUND NEW LIGHT FIXTURE. EXTEND CONDUIT AND WIRING AS REQUIRED.
28. CONTRACTOR SHALL NOT DISTURB EXISTING COMPUTER/DATA CABLING UNLESS OTHERWISE INDICATED ON DRAWINGS.
29. ANY PORTIONS OF EXISTING CEILINGS TO BE REMOVED BY CONTRACTOR FOR INSTALLATION OF THEIR WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. MATCH EXISTING CEILING MATERIAL, PATCH AND PAINT AS REQUIRED. CONTRACTOR SHALL ARCHIVE AND DOCUMENT ALL EXISTING CEILING CONDITIONS ELECTRONICALLY PRIOR TO BEGINNING WORK. IF ANY DAMAGE IS FOUND THEY SHALL BRING IT TO THE ATTENTION OF THE OWNER IN WRITING PRIOR TO PERFORMING WORK. IF THIS DOCUMENTATION IS NOT PROVIDED THE CONTRACTOR IS ASSUMING THE LIABILITY FOR REPLACING ALL DAMAGED TILES DISCOVERED AFTER THE COMPLETION OF THE PROJECT. ALL DAMAGED TILES FOUND WILL BE REPLACED AT THE CONTRACTORS EXPENSE.
30. ALL EXPOSED RACEWAYS INSTALLED IN FINISHED AREAS WILL ONLY BE ALLOWED WHEN APPROVED BY THE ARCHITECT AND THEN SHALL BE OF THE WIREMOLD TYPE. EXPOSED CONDUIT WILL ONLY BE INSTALLED BY PERMISSION OF THE ARCHITECT. ALL EXPOSED CONDUIT INSTALLED IN FINISHED AREAS SHALL BE PAINTED TO MATCH SURROUNDING AREAS.
31. CONTRACTOR SHALL REFER TO ARCHITECTURAL CUTTING AND PATCHING SPECIFICATIONS FOR INFORMATION REGARDING PERFORMANCE STANDARDS AND PROCEDURES.
32. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE ORIENTATION AND PLACEMENT. VERIFY EXACT LOCATION OF ALL CEILING DEVICES (I.E. FIRE ALARM DEVICES, CEILING SPEAKERS) WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION PRIOR TO INSTALLATION.
33. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHT FIXTURE MOUNTING HARDWARE INCLUDING PENDANTS, CANOPIES, TONG HANGERS, FLANGES, SAFETY CHAINS AND UNI-STRUT. WHEN PENDENT MOUNTING CONTINUOUS ROWS OF 4 FOOT FIXTURES, CONTRACTOR SHALL UTILIZE UNI-STRUT. PAINT OUT PENDANTS AND UNI-STRUT TO MATCH LIGHT FIXTURES. WIRE OIL FROM PENDANTS AND UNI-STRUT WITH CHEMICAL CLEANER PRIOR TO PAINTING. LIGHT FIXTURES INSTALLED IN A GRID SHALL BE SUPPORTED FROM THE STRUCTURE WITH A MINIMUM OF (4) PENCIL ROD WIRES PER EACH FIXTURE. DO NOT SUPPORT FIXTURE FROM CEILING GRID.
34. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SHOP DRAWINGS PRIOR TO ORDERING CIRCUIT BREAKERS, DISCONNECT SWITCHES, STARTERS, FUSES, CONDUIT AND WIRING, ETC., ASSOCIATED WITH CONNECTION OF MECHANICAL EQUIPMENT TO ENSURE A COMPLETE WORKING INSTALLATION.
35. ALL FINAL CONNECTIONS MADE WITH FLEXIBLE CONDUIT FEEDING MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT, FLEXIBLE METAL CONDUIT AND SHALL HAVE GROUNDING WIRE INSTALLED.
36. ALL OVERCURRENT PROTECTION AND WIRE SIZING FOR HVAC EQUIPMENT WILL BE COORDINATED BY THE CONTRACTOR WITH DRAWINGS AND MANUFACTURERS RECOMMENDATIONS.
37. FOR LOW VOLTAGE THERMOSTATS:
THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOX AND CONDUIT STUBBED UP TO ABOVE CEILING FOR MECHANICAL CONTRACTORS THERMOSTAT. MOUNT AT 48" TO TOP. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR FOR ALL THERMOSTAT LOCATIONS. FOR EXISTING WALLS WHERE SURFACE MOUNTING IS REQUIRED, CONTRACTOR SHALL UTILIZE METALLIC WIREMOLD RACEWAY. IN EXISTING FINISHED AREAS WHERE NO LAY-IN CEILINGS ARE PRESENT, CONTRACTOR SHALL CONNECT THERMOSTAT TO MECHANICAL DEVICE WITH A CONTINUOUS RACEWAY SYSTEM.
FOR LINE VOLTAGE THERMOSTATS:
THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOX AND CONTINUOUS CONDUIT SYSTEM TO MECHANICAL UNIT SERVING FOR MECHANICAL CONTRACTORS THERMOSTAT AND WIRING. MOUNT JUNCTION BOX AT 48" TO TOP. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR FOR ALL THERMOSTAT LOCATIONS. FOR EXISTING WALLS WHERE SURFACE MOUNTING IS REQUIRED, CONTRACTOR SHALL UTILIZE METALLIC WIREMOLD RACEWAY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION OF LINE VOLTAGE THERMOSTAT TO MECHANICAL UNIT SERVING. FURNISH AND INSTALL REQUIRED WIRING. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
38. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL SPECIFICATIONS/DRAWING DOOR HARDWARE SCHEDULE FOR ALL ELECTRICAL REQUIREMENTS. INCLUDE CONDUIT, WIRING AND DEVICES AS REQUIRED FOR OPERATION OF LISTED DEVICES.
39. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID, AN ALLOWANCE FOR FURNISHING AND INSTALLING THE FOLLOWING ADDITIONAL DEVICES NOT SHOWN ON DRAWINGS:
(2) DUPLEX RECEPTACLES
(1) LIGHT SWITCH
(1) LIGHT FIXTURE - INSTALLATION ONLY
CONTRACTOR SHALL INCLUDE ASSOCIATED BACKBOXES, COVERPLATES, CONDUIT AND WIRING FOR CONNECTION OF ABOVE ITEMS FOR AVERAGE LENGTH OF A 50 FOOT RUN.

GENERAL ELECTRICAL DEMOLITION NOTES:

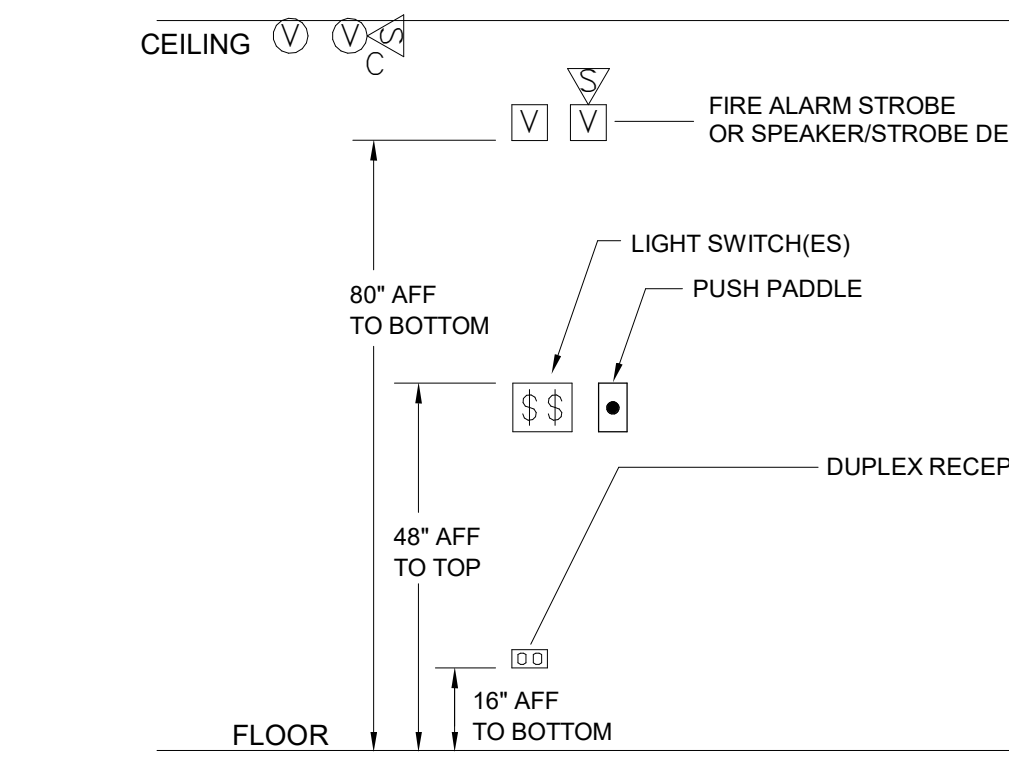
NOTES RE: EXISTING CONDITIONS:

1. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
2. MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
3. DISCONNECT AT SOURCE AND REMOVE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE OR RETURNED TO THE OWNER'S STOCK AT THE DISCRETION OF THE OWNER.
4. DISCONNECT, REMOVE AND RELOCATE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, AND ALL OTHER ELECTRICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE LOCATIONS AS DIRECTED. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW LOCATIONS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN ELECTRICAL OPERATION AT ALL TIMES DURING THE ENTIRE CONSTRUCTION PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE. PRIOR NOTICE SHALL BE GIVEN.
6. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
7. ALL CUTTING AND PATCHING AS REQUIRED FOR NEW WORK & ABANDONED DEVICES TO BE BY THE CONTRACTOR.
8. WHERE EXISTING CONDUITS HAVE BEEN MADE OBSOLETE BY THESE ALTERATIONS AND ADDITIONS AND IT IS IMPRACTICAL TO REMOVE SAME, CONTRACTOR SHALL:
a. CUT CONDUITS OFF AT SLAB OR WALL LINE.
b. CAP ALL OBSOLETE CONDUIT.
9. WHERE THE EXISTING WIRING & CONDUIT SERVING ANY EXISTING ELECTRICAL EQUIPMENT IN AREA OF EXISTING BUILDING NOT BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH CONDUIT & WIRING.

NOTES RE: INSPECTING EXISTING BUILDING:

1. THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS BEFORE SIGNED CONTRACTS. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
2. WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
3. CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
4. CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ARCHITECT ANY LACK OF ANY NECESSARY SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT BEFORE CONTRACT IS SIGNED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE NEGLECTS TO DO SO.

NOTE:
ALL DEVICES SHOWN DOTTED, DASHED, OR INDICATED WITH A PLAN NOTE (INDICATING REMOVAL) ARE EXISTING TO BE REMOVED. ALL DEVICES SHOWN SOLID ARE EXISTING TO REMAIN. IF THE CONTRACTOR DEEMS IT NECESSARY FOR A DEVICE TO BE REMOVED, THEY SHALL COORDINATE IN FIELD WITH THE ARCHITECT/ENGINEER FOR APPROVAL.



NOTES:

- ALIGN DEVICES VERTICALLY WHERE POSSIBLE.
- DEVICE BACK BOXES SHALL MATCH FACEPLATE CONFIGURATION (I.E. SINGLE-GANG, TWO-GANG, ETC.,).
- DEVICE ORIENTATION (HORIZONTAL OR VERTICAL) SHALL BE COORDINATED WITH THE OWNER IN ORDER TO CONFORM TO OWNERS PREFERENCE AND STANDARDS.
- RECEPTACLES MOUNTED VERTICALLY SHALL HAVE THE GROUND PIN UP UNLESS OTHERWISE DIRECTED BY THE OWNER. RECEPTACLES MOUNTED HORIZONTALLY SHALL HAVE NEUTRAL BLADE UP UNLESS OTHERWISE DIRECTED BY THE OWNER.
- REFER TO GENERAL ELECTRICAL, FIRE ALARM, INTERCOM/CLOCK, SOUND SYSTEM AND TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.

ELECTRICAL DEVICE MOUNTING HEIGHT DETAIL

NO SCALE

(UNLESS OTHERWISE INDICATED ON DRAWINGS)

ALL RACEWAYS TO BE CONCEALED INSIDE OF WALLS WHERE POSSIBLE. ALL EXISTING WALLS SHALL BE FISHED WITH FLEXIBLE METAL CONDUIT "NAC" TO CONCEAL WIRING UP TO ABOVE CEILING. DEVICES SHALL BE FLUSH MOUNTED IN ALL NEW AND EXISTING WALLS UNLESS THERE IS A CONDITION THAT DOES NOT ALLOW FOR THIS. COORDINATE WITH ARCHITECT OUT PATCH AND PAINT TO MATCH SURROUNDING AREA, WHERE UNABLE TO FISH WALL, USE METALLIC WIREMOLD RACEWAY SURFACE MOUNTED ON WALL UP TO ABOVE CEILING WHEN APPROVED BY ARCHITECT. COLOR SELECTED BY THE OWNER.

GENERAL ELECTRICAL SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	JUNCT. BOX & FLEX CONDUIT		SPEAKER FLUSH TO CEILING
	GROUND FAULT INTERRUPTER		KEY OPERATED WALL SWITCH
	EXISTING DEVICE TO REMAIN		PUSH BUTTON SWITCH
	MOUNTED ABOVE COUNTER		FIRE ALARM "NAC" PANEL
	RECESSED 2 x 2 LIGHT FIXTURE		FIRE ALARM VISUAL STROBE
	OCCUPANCY SENSOR		FIRE ALARM HORN/STROBE
	CEILING MOUNTED VISUAL DEVICE		CEILING MOUNTED SPEAKER/STROBE DEVICE

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KEY PLAN

ISSUE CHART

DATE	ISSUE FOR BID	DATE
09 JUN 25	ISSUE	09 JUN 25
Job Number	021075.001	

TITLE

ELECTRICAL NOTES
AND SYMBOLS

SHEET NUMBER

E61-01