

EAST CENTRAL MULTI-PURPOSE ARENA CONCESSION AND RESTROOMS (RE-BID)

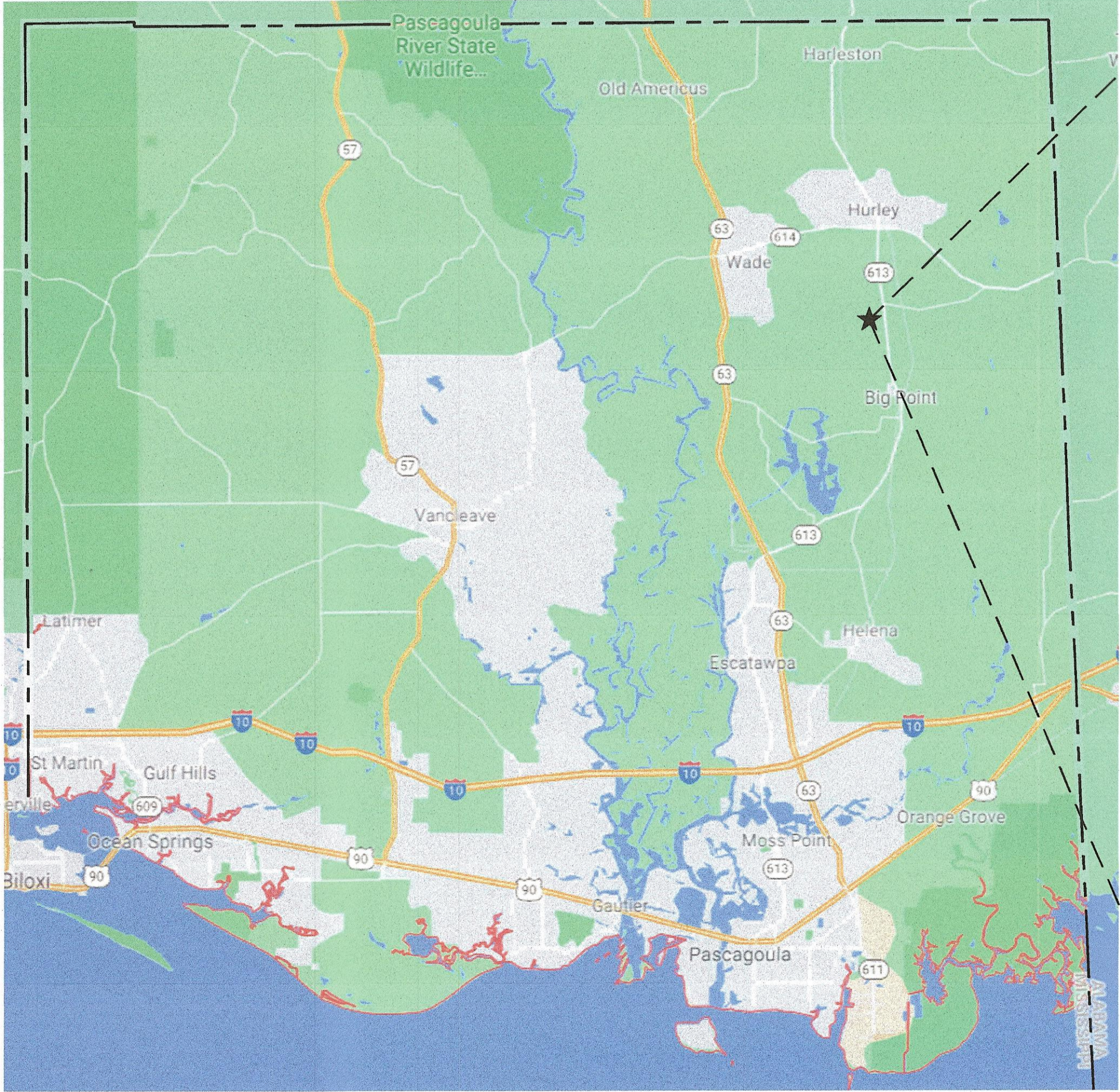
JACKSON COUNTY BOARD OF SUPERVISORS
MOSS POINT, MISSISSIPPI



BOARD OF SUPERVISORS

- Barry Cumbest District 1
- Ennit Morris District 2 - President
- Ken Taylor District 3 - Vice President
- Troy Ross District 4
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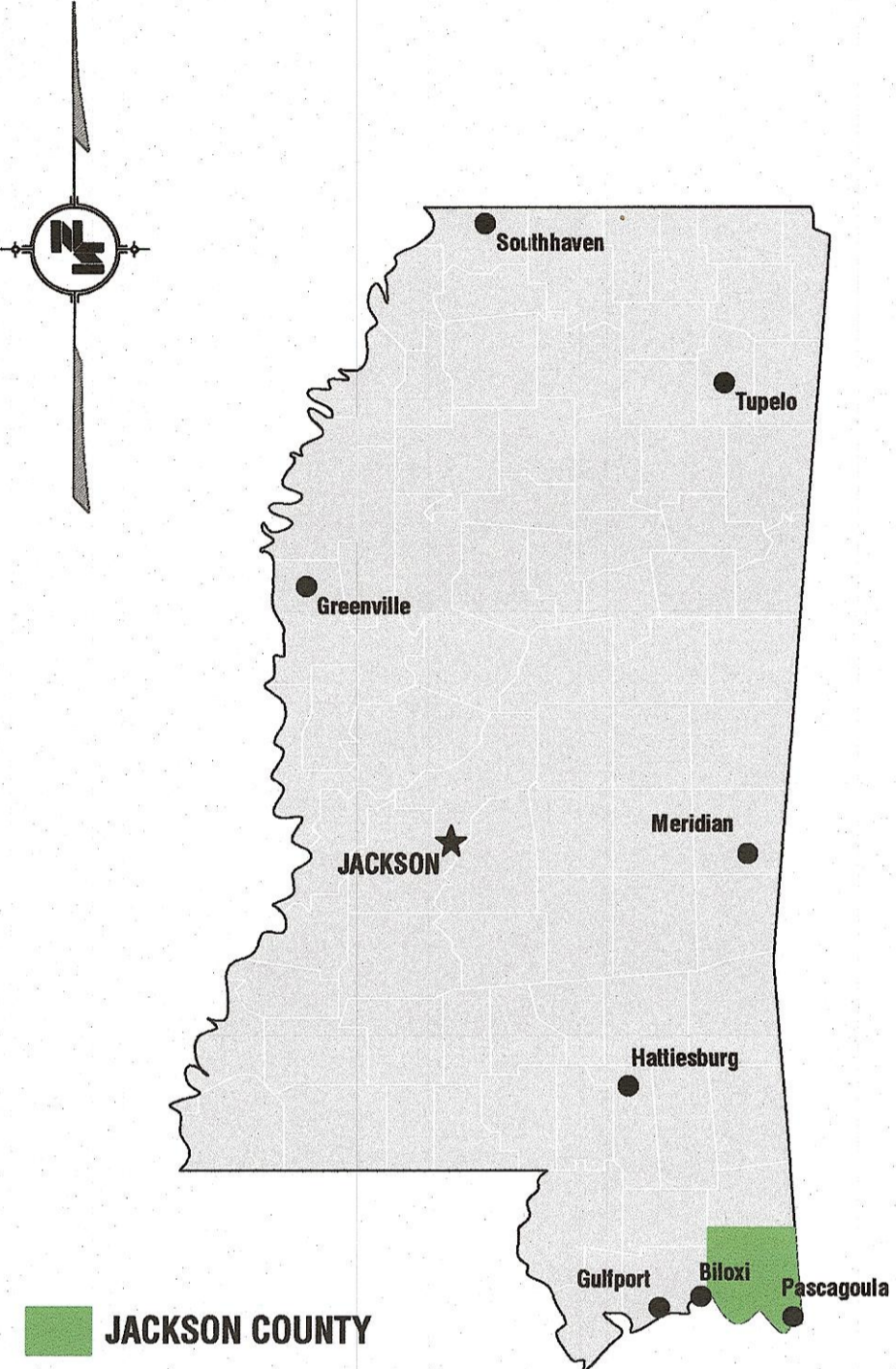
- Brian Fulton County Administrator
- DJ Pulley Recreation Director



JACKSON COUNTY, MS



MOSS POINT, MS

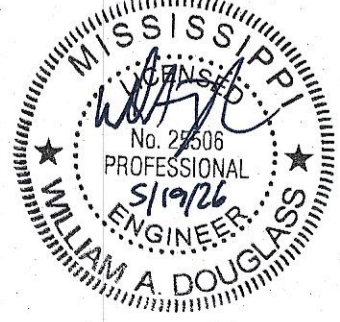


LAT. = 30.6122
LONG. = -88.4902

STATE OF MISSISSIPPI

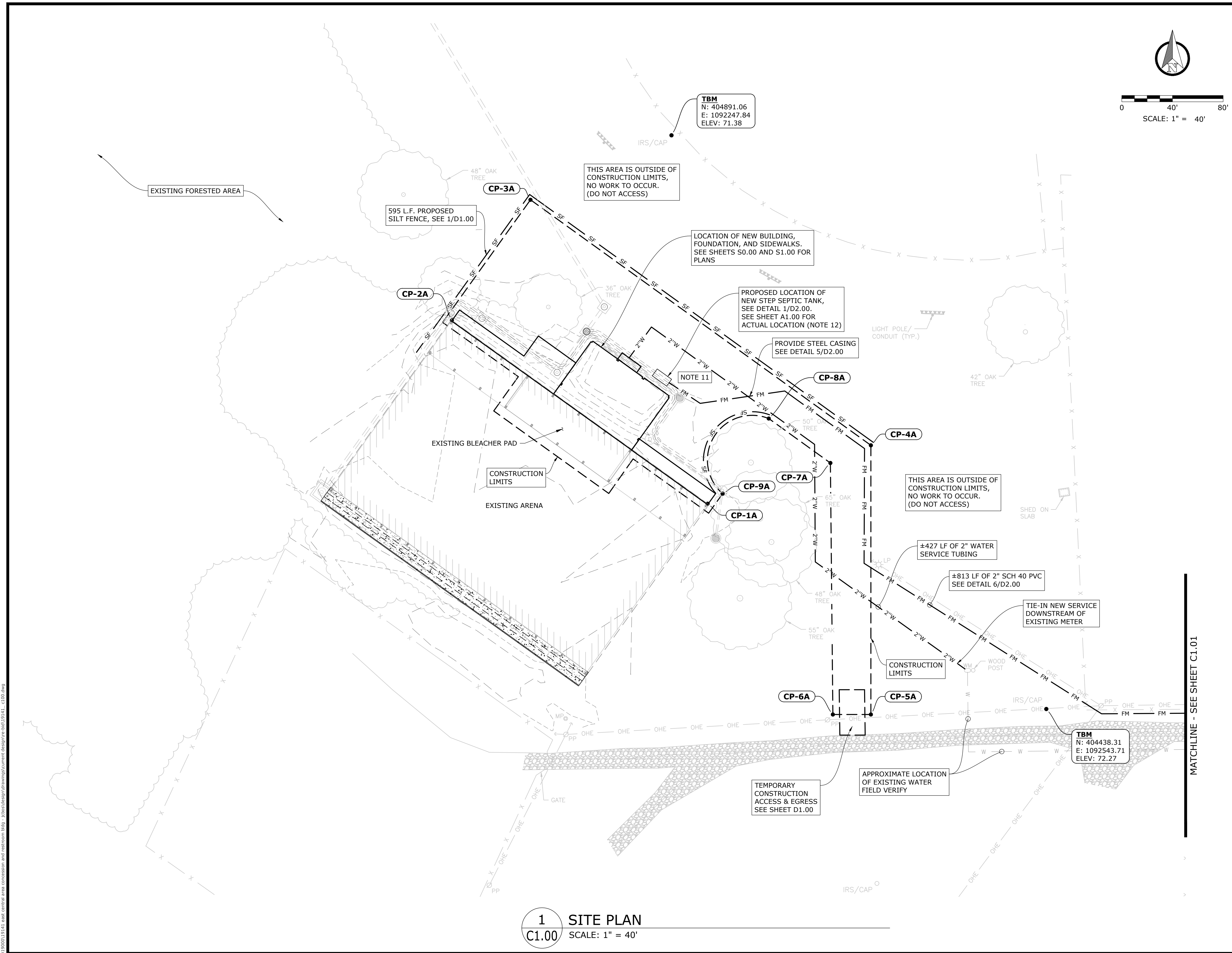
VICINITY MAP

PREPARED BY :
NEEL-SCHAFFER



W. ANDREW DOUGLASS, P.E.
MISSISSIPPI LICENSE NO. 25506

5/17/2026 4:42 PM Y:\Projects\015000\015000\18141 East Central arena concession and restroom bid - jackson\design\drawings\current design\18141_01.dwg



- CIVIL NOTES:**
- NO COURSE (LAYER) SHALL BE COVERED WITHOUT APPROVAL FROM THE ENGINEER REGARDLESS OF RESULTS FROM DENSITY TEST.
 - COURSE (LAYERS) SHALL NOT EXCEED 8 INCH LIFTS, UNLESS OTHERWISE SPECIFIED.
 - IF DETERMINED BY THE ENGINEER THAT IN-PLACE MATERIALS ARE TOO WET, DUE TO WEATHER, ALL HAULING OPERATIONS SHALL BE HALTED.
 - EACH COURSE (LAYER) SHALL BE SHAPED TO REQUIRED SECTION, WATERED OR AERATED AS NECESSARY TO PRODUCE THE REQUIRED MOISTURE AND COMPACTION THROUGHOUT THE OPERATION.
 - THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, ETC. WITH MATERIALS OF THE SAME TYPE OR BETTER THAN THAT REMOVED DURING CONSTRUCTION.
 - NEW GRAVEL/AGGREGATE DRIVE AND SERVICE AREA TO BE PROVIDED BY OTHERS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING, PROTECTING, REPAIRING, AND REPLACING AS NECESSARY, ALL UTILITY BOXES, UNDERGROUND POWER, INLET GRATES, VALVE BOXES, WATER MAINS, SEWER LINES, IRRIGATION COMPONENTS OR SERVICES, ETC. THAT ARE DISTURBED WITHIN THE AREA OF WORK. COSTS TO BE CONSIDERED INCIDENTAL TO BID.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES. ALL UTILITY POLES IN CLOSE PROXIMITY TO PROPOSED LINWORK SHALL BE HELD IN PLACE UNTIL PROPER COMPACTION IS ACHIEVED. THIS ITEM IS TO BE COVERED UNDER MOBILIZATION / DEMOBILIZATION
 - CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ANY CONSTRUCTION THAT MAY DAMAGE TREES, WHICH ARE NOT MARKED OR INDICATED ON THE DRAWINGS TO BE REMOVED.
 - ALL EXCAVATED AND SCREENED MATERIAL SHALL REMAIN ON SITE. IF NOT UTILIZED AS BACKFILL AROUND IMPROVEMENTS, THEN CONTRACTOR SHALL COORDINATE WITH OWNER PLACEMENT ELSEWHERE ON SITE.
 - ALL DISTURBED AREAS WITHIN CONSTRUCTION SHALL BE SEEDED ACCORDING TO SECTION 02936.
 - FORCE MAIN FROM STEP SEPTIC TANK TO HWY 613 SHALL BE LOCATED TO AVOID TRAFFIC AREAS. WHERE FORCE MAIN CROSSES A TRAFFIC AREA, IT SHALL BE CASED. TIE IN AT HWY 613 SHALL BE COORDINATED WITH JACKSON COUNTY UTILITY AUTHORITY. SEE D2.00 FOR DETAIL.
 - NEW DOWNSPOUTS AT LOADING DOCK SHALL BE TIED INTO EXISTING DRAINAGE SYSTEM. COORDINATE WITH ARCHITECTURAL DRAWINGS.
 - PROVIDE WATTLE'S AT ALL DRAINAGE INLETS PRIOR TO COMMENCING CONSTRUCTION AND MAINTAIN UNTIL PROJECT COMPLETION. SEE SHEET D1.00.

CONTROL POINT TABLE		
POINT NUMBER	NORTHING	EASTING
CP-1A	404600.3340	1092276.3730
CP-2A	404745.0810	1092074.5120
CP-3A	404840.1647	1092136.5404
CP-4A	404646.4065	1092405.2316
CP-5A	404433.9875	1092405.2316
CP-6A	404433.9875	1092375.2316
CP-7A	404632.4640	1092373.2756
CP-8A	404667.5582	1092324.6092
CP-9A	404608.2500	1092288.2000

COORDINATES FOR THIS PROJECT ARE REFERENCED TO THE MISSISSIPPI STATE PLANE COORDINATE SYSTEM, EAST ZONE (2301), NAD83 (2011 EPOCH 2010.00), THE CONTROL AND TEMPORARY BENCHMARKS WERE ESTABLISHED USING A G.P.S. NETWORK ROVER OPERATING ON THE USM CONTINUOUS OPERATING REFERENCE STATION (CORS) NETWORK USING STATION #0054 LOCATED AT N-338,112.184, E-1,112,070.489, Z-26,725 FT NAVD88. THE ELEVATIONS WERE DERIVED USING GEOID MODEL 12B.

1 SITE PLAN
C1.00 SCALE: 1" = 40'

NOTICE TO DRAWING HOLDER
 NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS			DRAWING INFORMATION		
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.:	19141.000
A	04/30/26	NMB	ISSUED FOR REVIEW	FILENAME:	19141_C100.dwg
B	05/24/26	NMB	ISSUED FOR BID	SCALE:	AS NOTED
SURVEYED BY:				DATE: 02/2025	
DSGN:				DATE: 02/2025	
DRWN:				DATE: 06/2025	
CHKD:				DATE: / /	
QA/QC:				DATE: / /	

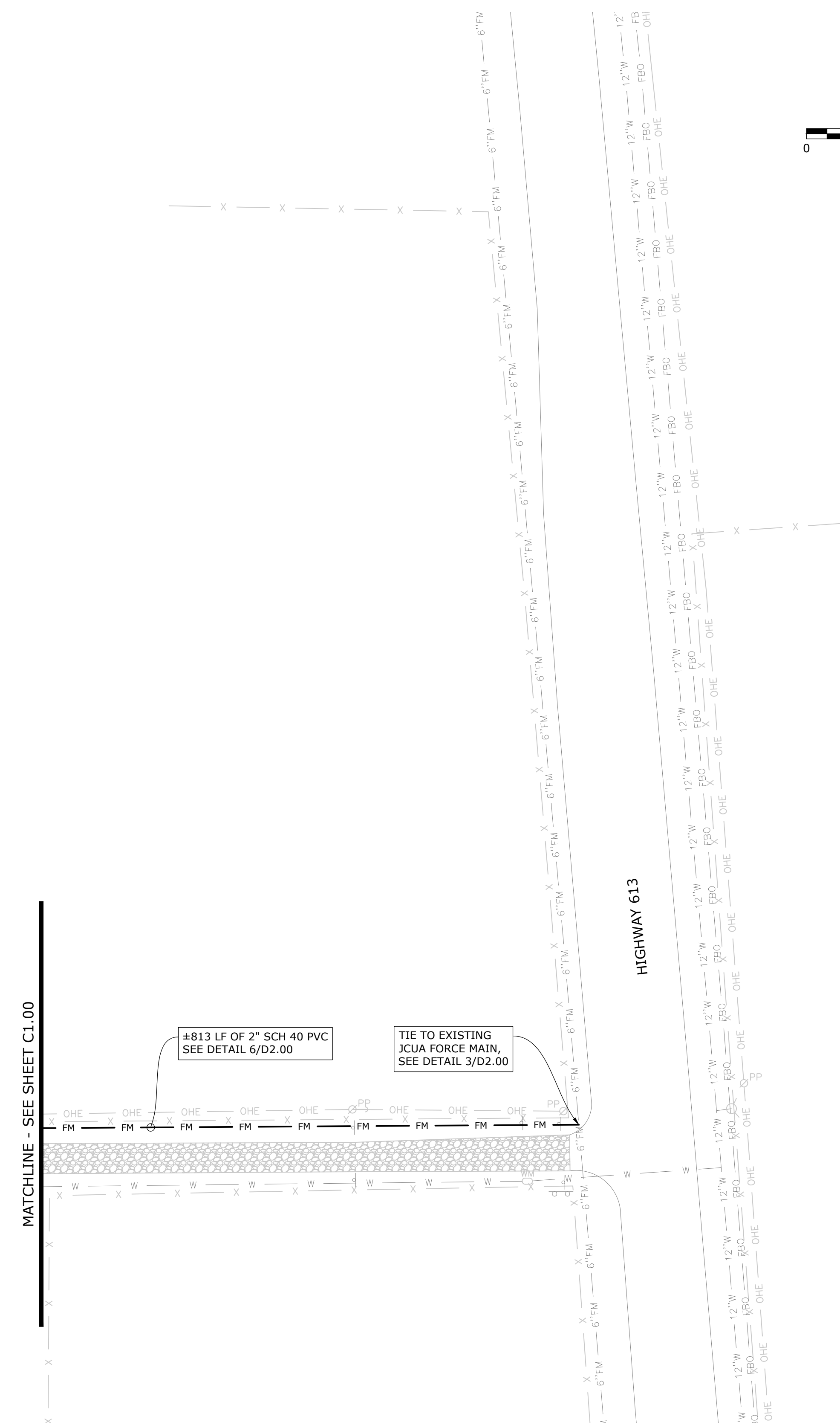
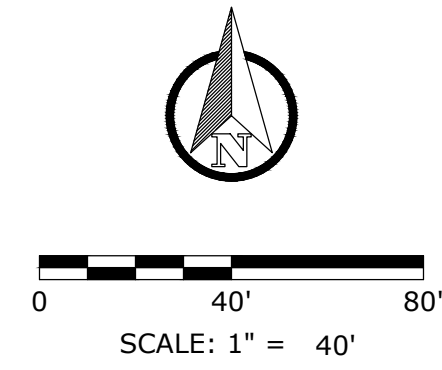
**EAST CENTRAL MULTI-PURPOSE ARENA
 CONCESSION AND RESTROOMS
 (RE-BID)**

JACKSON COUNTY BOARD OF SUPERVISORS



SITE PLAN	
WORKING NUMBER:	DRAWING NUMBER:
C1.00	3 of 45

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1 SITE PLAN
C1.01 SCALE: 1" = 40'

NOTICE TO DRAWING HOLDER

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				DSGN: GJD DATE: 02/2025
				DRWN: GJD/NMB DATE: 02/2025
				CHKD: GJD DATE: 06/2025
				QA/QC: _____ DATE: ____/____/____

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

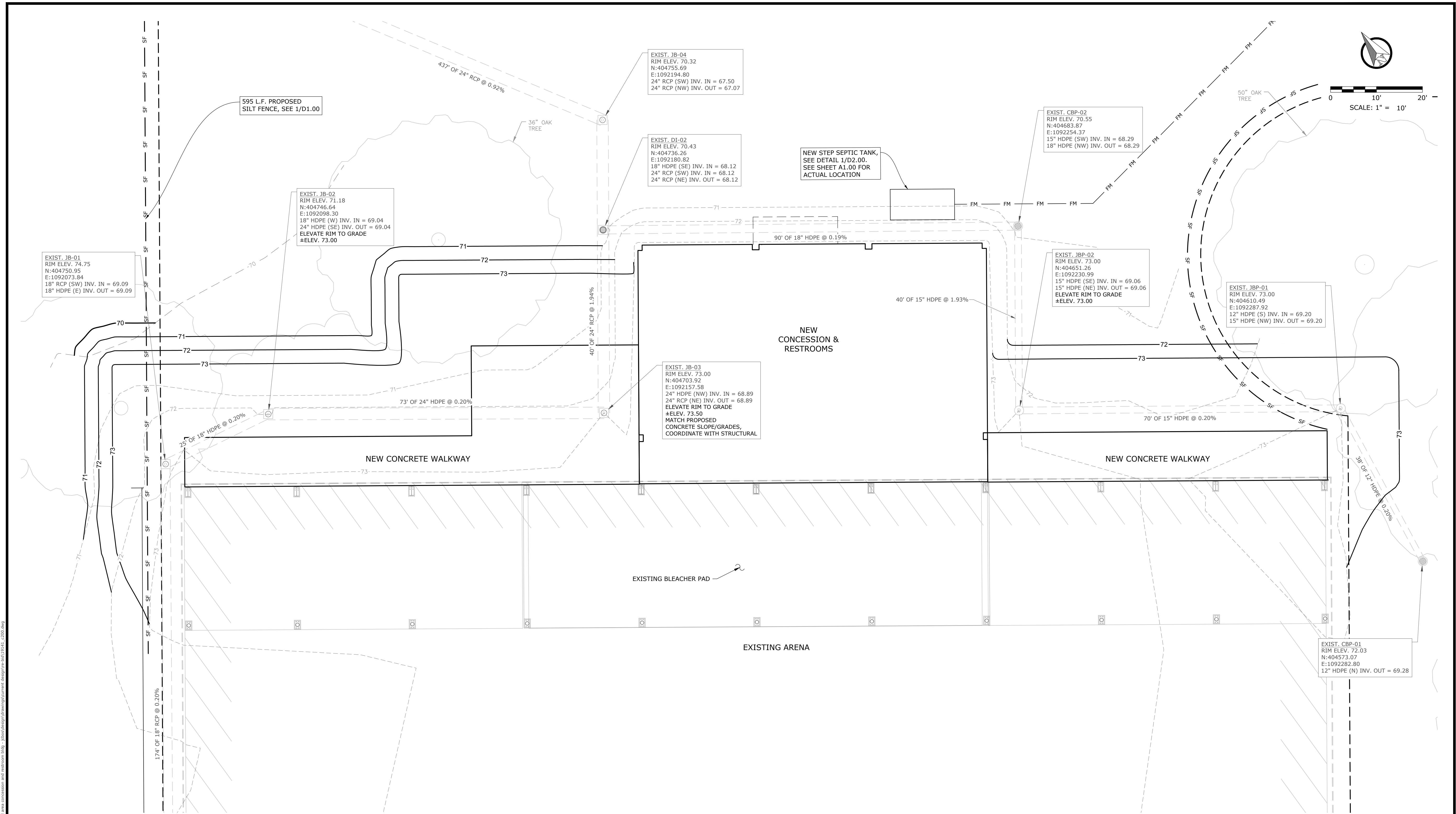
**EAST CENTRAL MULTI-PURPOSE ARENA
 CONCESSION AND RESTROOMS
 (RE-BID)**

JACKSON COUNTY BOARD OF SUPERVISORS



SITE PLAN	
WORKING NUMBER: C1.01	DRAWING NUMBER: 4 of 45

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1 PROPOSED SIDEWALK GRADING & DRAINAGE PLAN
C2.00 SCALE: 1" = 10'

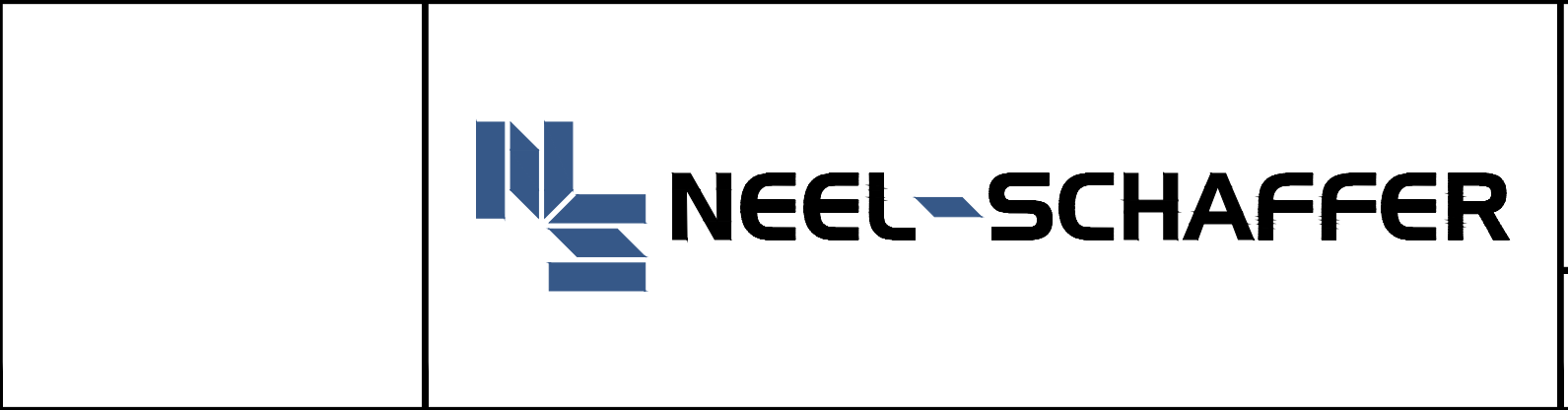
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B	05/24/26	NMB	ISSUED FOR BID	

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CHKD:	GJD DATE: 06/2025
QA/QC:	DATE: / /

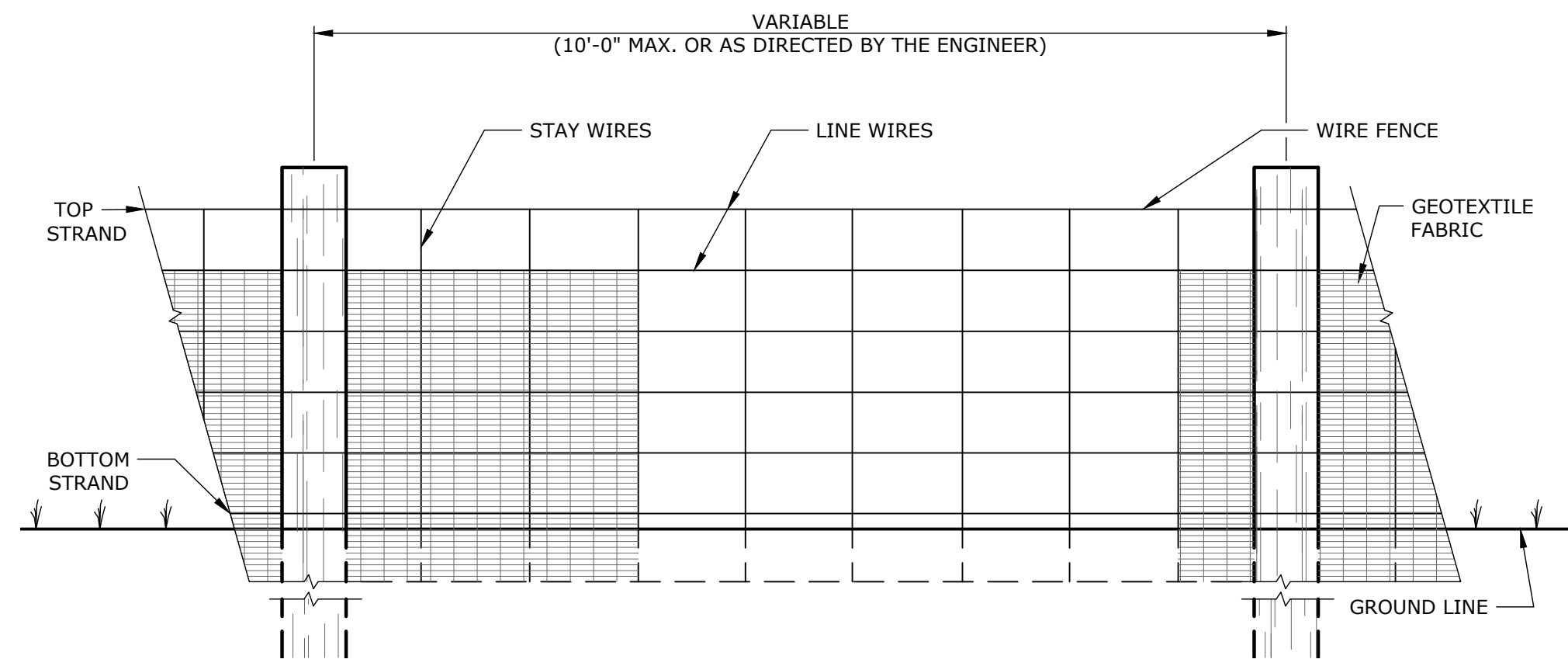
**EAST CENTRAL MULTI-PURPOSE ARENA
 CONCESSION AND RESTROOMS
 (RE-BID)**

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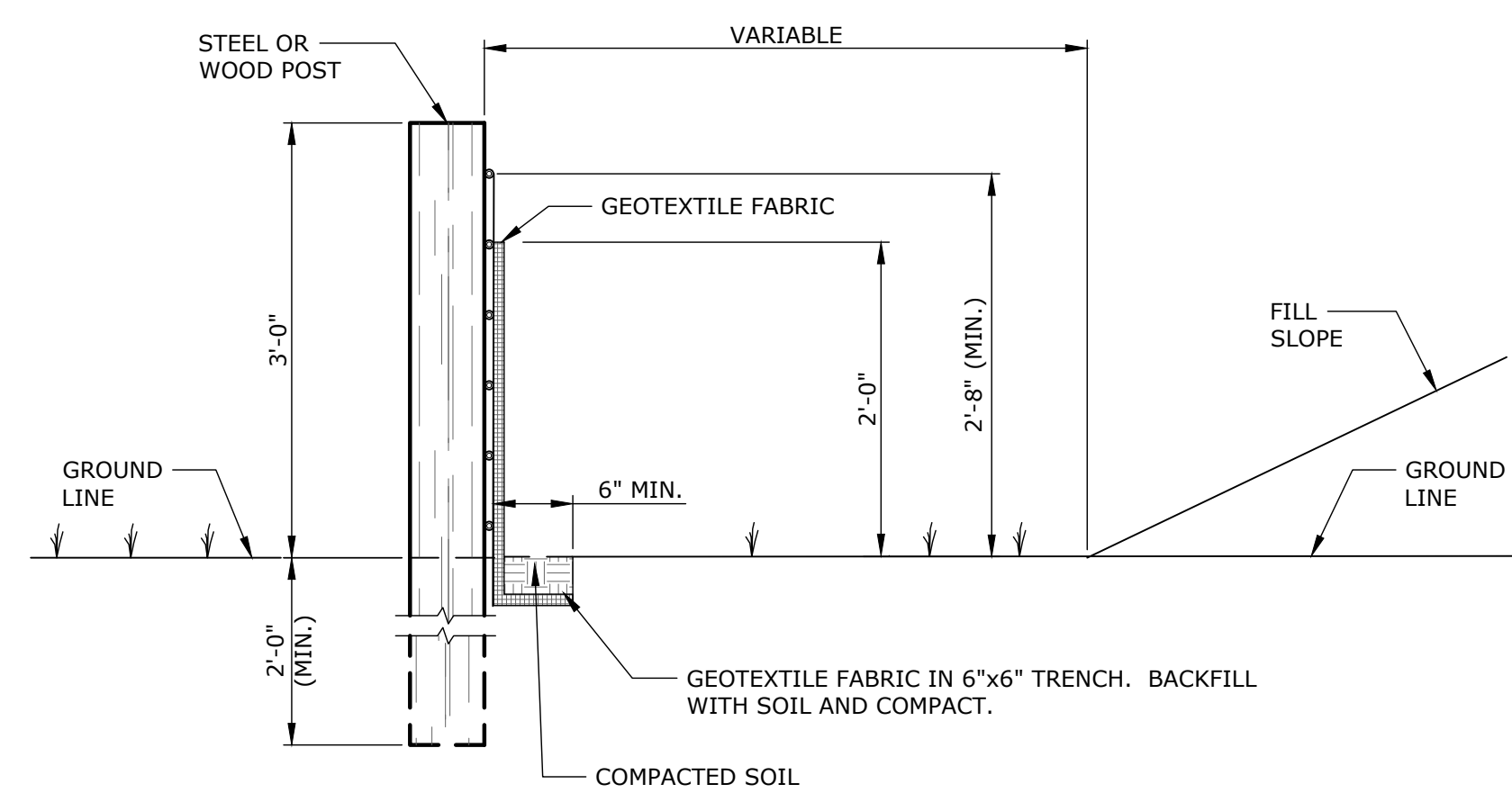


PROPOSED SIDEWALK GRADING & DRAINAGE PLAN	
WORKING NUMBER: C2.00	DRAWING NUMBER: 5 of 45

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FRONT ELEVATION

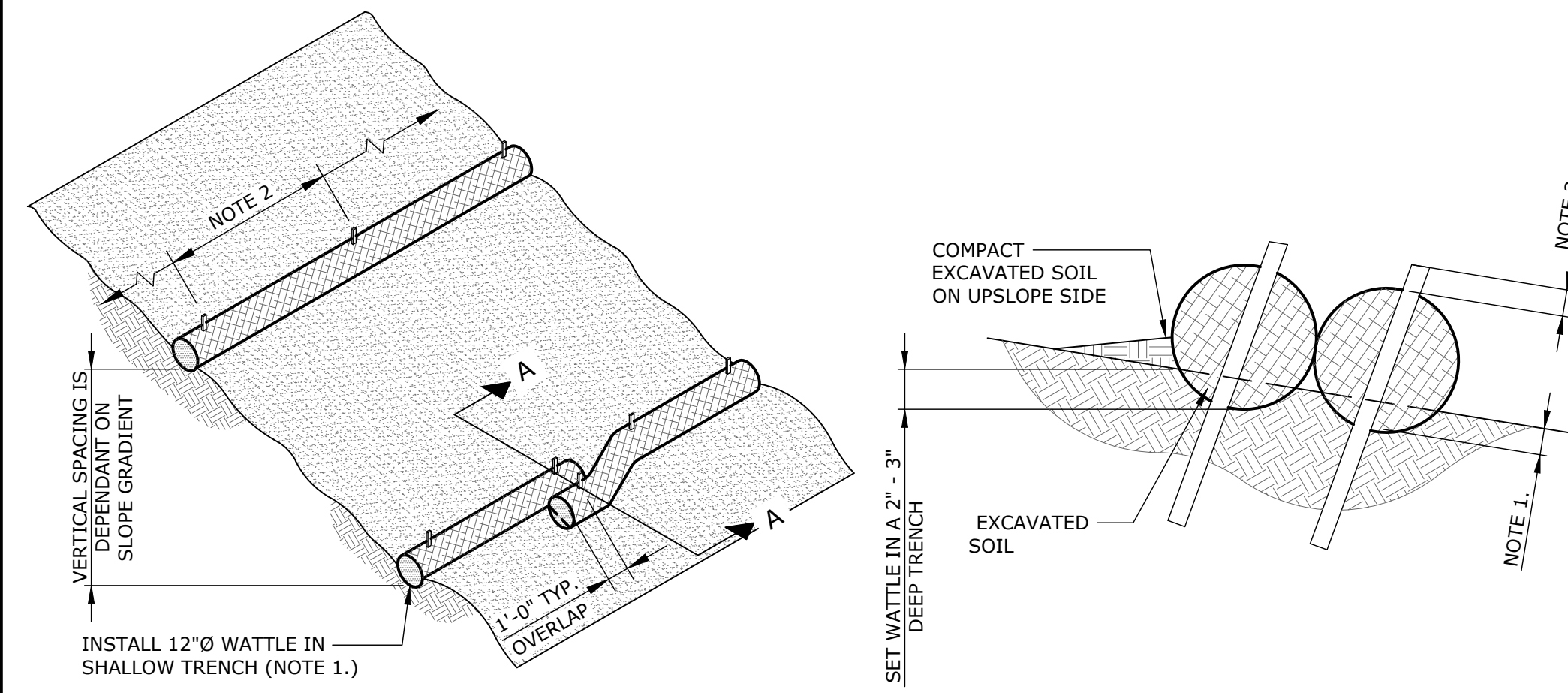


SIDE ELEVATION

NOTE(S)

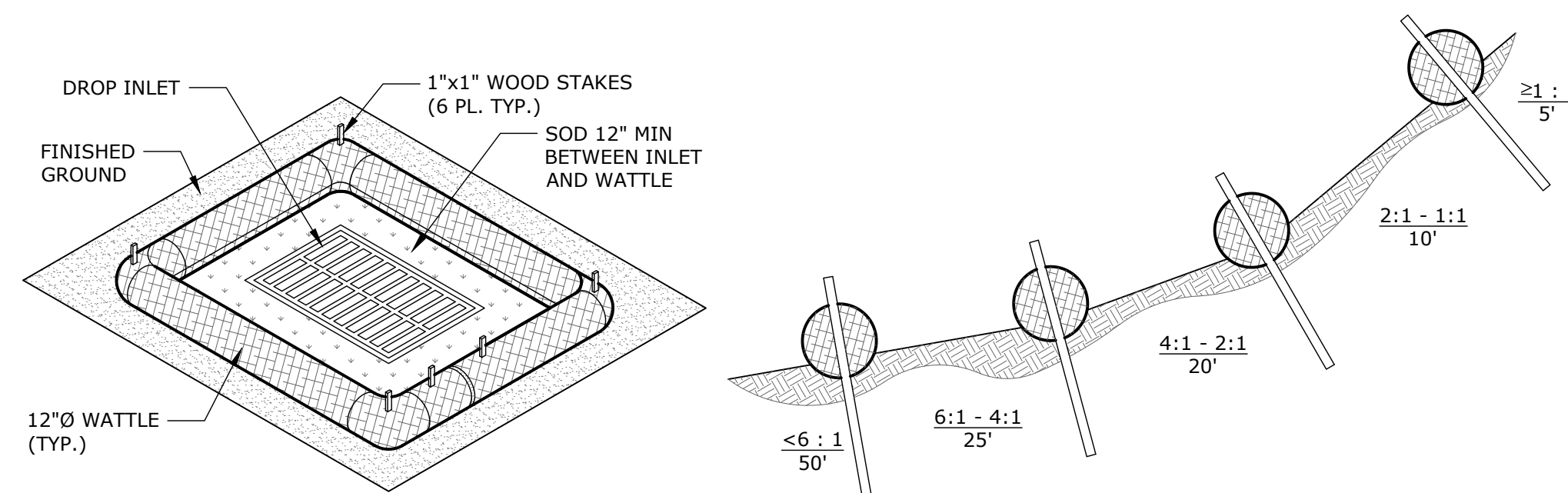
1. WIRE FENCE SHALL BE MINIMUM OF 32" IN HEIGHT AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH STAY WIRES @ 12" (MIN.) ON CENTERS. ALL WIRE SHALL BE 12 GAUGE (MIN.). TOP AND BOTTOM STRAND TO BE 10 GAUGE (MIN.).
2. GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE WITH WIRE OR OTHERS APPROVED MEANS.
3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND OF THE SELF-FASTENER ANGLE STEEL TYPE. WOOD POST SHALL BE A MINIMUM OF 5'-0" IN HEIGHT AND 3" OR MORE IN DIAMETER. WIRE FENCE SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN 9 GAGE WIRE STAPLES 1" LONG.
4. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATION SECTION 01571. MAY BE USED WITHOUT WIRE FENCE.
5. SILT FENCING TO BE INSTALLED ALONG CONSTRUCTION LIMITS OF PROJECT OR AS NOTED ON DRAWINGS. EROSION CONTROL MEASURES AND OTHER BEST MANAGEMENT PRACTICES ALSO TO BE IMPLEMENTED PER THE SWPPP.

1 TEMPORARY SILT FENCE DETAIL
D1.00 NOT TO SCALE



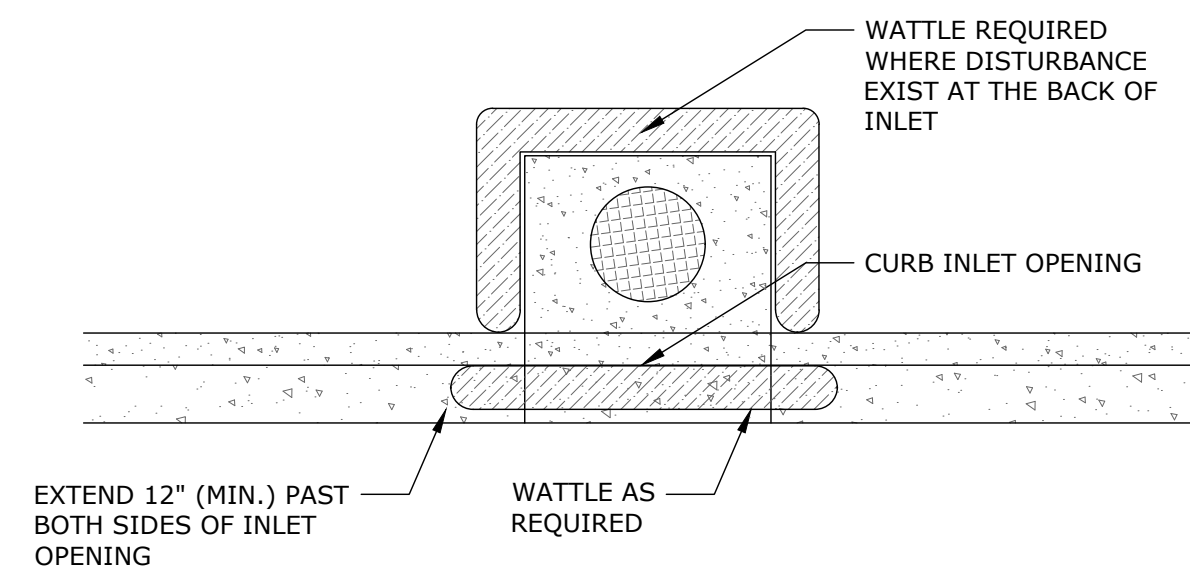
TYPICAL WATTLE INSTALLATION

SECTION A-A ENTRENCHMENT DETAIL



TYPICAL WATTLE LAYOUT AROUND DRAIN INLET

SLOPE GRADIENT SPACING

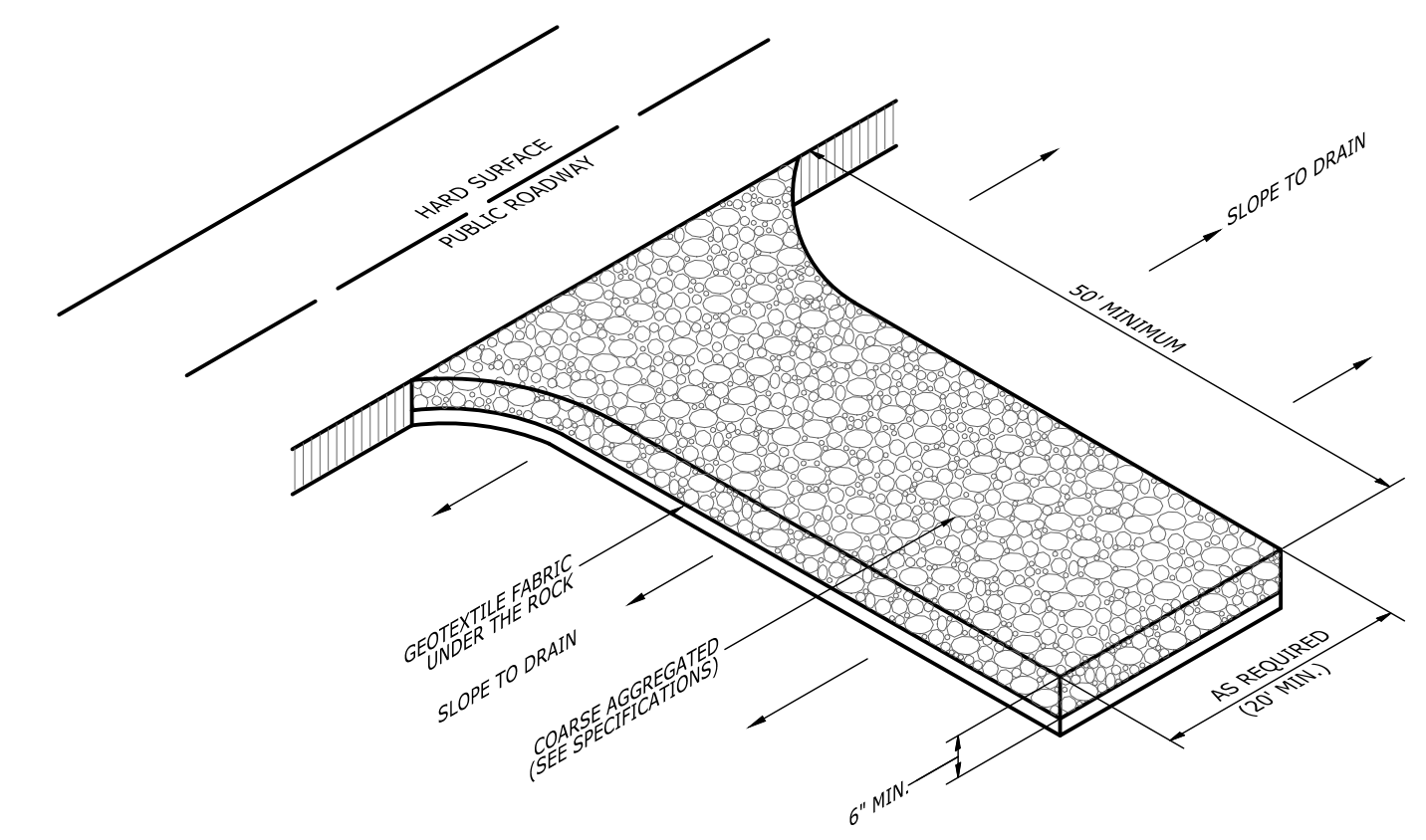


TYPICAL WATTLE @ CURB INLET/FLUME

NOTE(S):

1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2'-3" (DEPTH) x 9" (WIDTH) TRENCH ALONG THE CONTOUR OF THE SLOPE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
2. SECURE THE WATTLE WITH 18" TO 24" LONG 1"x1" STAKES EVERY 3 FT TO 4 FT ON CONTOURS, WITH A STAKE 6" FROM EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2'-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

2 TYPICAL WATTLE INSTALLATION GUIDE
D1.00 NOT TO SCALE

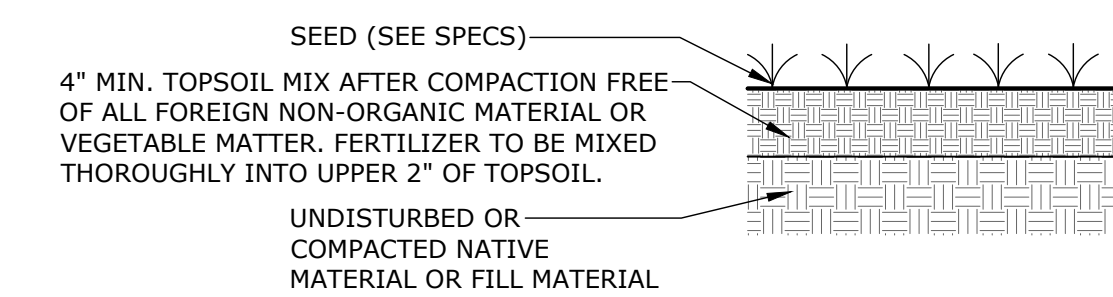


1. THE AREA OF THE CONSTRUCTION ENTRANCE SHALL BE EXCAVATED 6 INCHES DEEP, 50 FEET LONG AND SHALL EXTEND THE FULL WIDTH OF ANY VEHICULAR INGRESS AND EGRESS (MINIMUM 20 FEET) LOCATED ON THE SITE.
2. THE ENTRANCE SHALL BE PROPERLY MAINTAINED FOR THE DURATION OF THE PROJECT TO PREVENT THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL MAINTENANCE AND REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE ENTRANCE SHALL BE CHECKED ON A DAILY BASIS AND BEFORE & AFTER ANY RAINFALL EVENT FOR ANY DAMAGES. ANY DAMAGES FOUND SHALL BE REMEDIATED BEFORE THE DAYS END AT NO ADDITIONAL COST TO THE CITY.
4. THE ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT THE FLOW OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY.
5. MEASURES SHALL BE TAKEN TO PREVENT VEHICULAR TRAFFIC FROM BYPASSING THE CONSTRUCTION ENTRANCE DURING INGRESS AND EGRESS.

3 TEMPORARY CONSTRUCTION ACCESS AND EGRESS
D1.00 NOT TO SCALE

SEEDING NOTES:

1. 4" OF TOPSOIL SHALL BE PROVIDED AND INSTALLED PRIOR TO SEEDING.
2. SEED ALL DISTURBED AREAS WITH SEED MIXTURE AND RATES AS INDICATED IN THE SPECIFICATIONS.
3. INITIAL TREATMENT AND SEEDED PREPARATION: THOROUGHLY DISK AND SCARIFY AREA TO BE SEEDED OR SODDED TO A DEPTH OF AT LEAST 4". REMOVE ROCKS, ROOTS, OR OTHER OBJECTS THAT WILL INTERFERE WITH LAWN ESTABLISHMENT OR MAINTENANCE OPERATIONS.
4. FERTILIZER: APPLY FERTILIZER AT THE RATE OF 1000LBS PER ACRE. SPREAD FERTILIZER UNIFORMLY OVER ALL AREAS IMMEDIATELY BEFORE FINAL LAND PREPARATION AND MIX THOROUGHLY WITH THE SOIL. APPLY TOP DRESSING OF 100 POUNDS PER ACRE OF AMMONIUM NITRATE (OR EQUIVALENT) WHEN GRASS IS 2" TO 4" TALL. ALL FERTILIZER SHOULD BE INCORPORATED WITHIN 24 HOURS FOLLOWING SPREADING.
5. AREAS SHALL BE REPLANTED BY THE CONTRACTOR IF PERMANENT VEGETATION IS DISTURBED OR NOT ESTABLISHED.
6. PERMANENT VEGETATIVE COVER OF AT LEAST 90% IS REQUIRED. APPLY A 1/2" TO 3/4" LAYER OF MULCH ON ALL SEEDED AREAS IMMEDIATELY FOLLOWING SEEDING OPERATIONS. MAINTAIN A COVER OF MULCH UNTIL SEEDS HAVE GERMINATED AND SEEDLINGS ARE A MINIMUM OF 2" HEIGHT AND MOWING OPERATIONS HAVE BEGUN.
7. REPAIR AND RESEED ALL ERODED OR DISTURBED SEEDED AREAS WHERE VEGETATIVE COVER HAS NOT BEEN ESTABLISHED.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SEEDED AREAS WHERE VEGETATIVE COVER HAS NOT BEEN ESTABLISHED.



4 SEEDING DETAIL
D1.00 NOT TO SCALE

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VERIFY SCALES
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EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)

JACKSON COUNTY BOARD OF SUPERVISORS



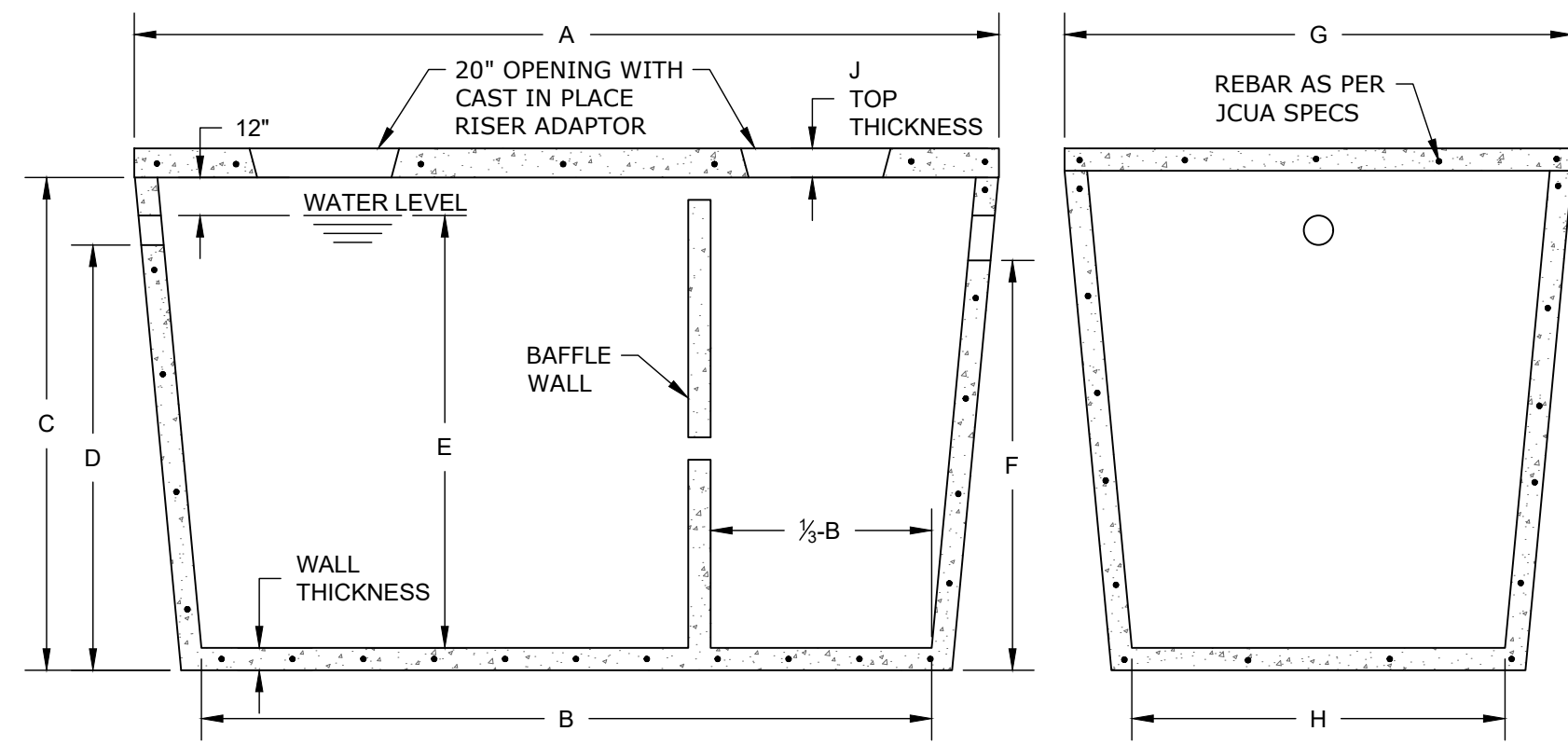
EROSION CONTROL
DETAILS

WORKING NUMBER:

D1.00

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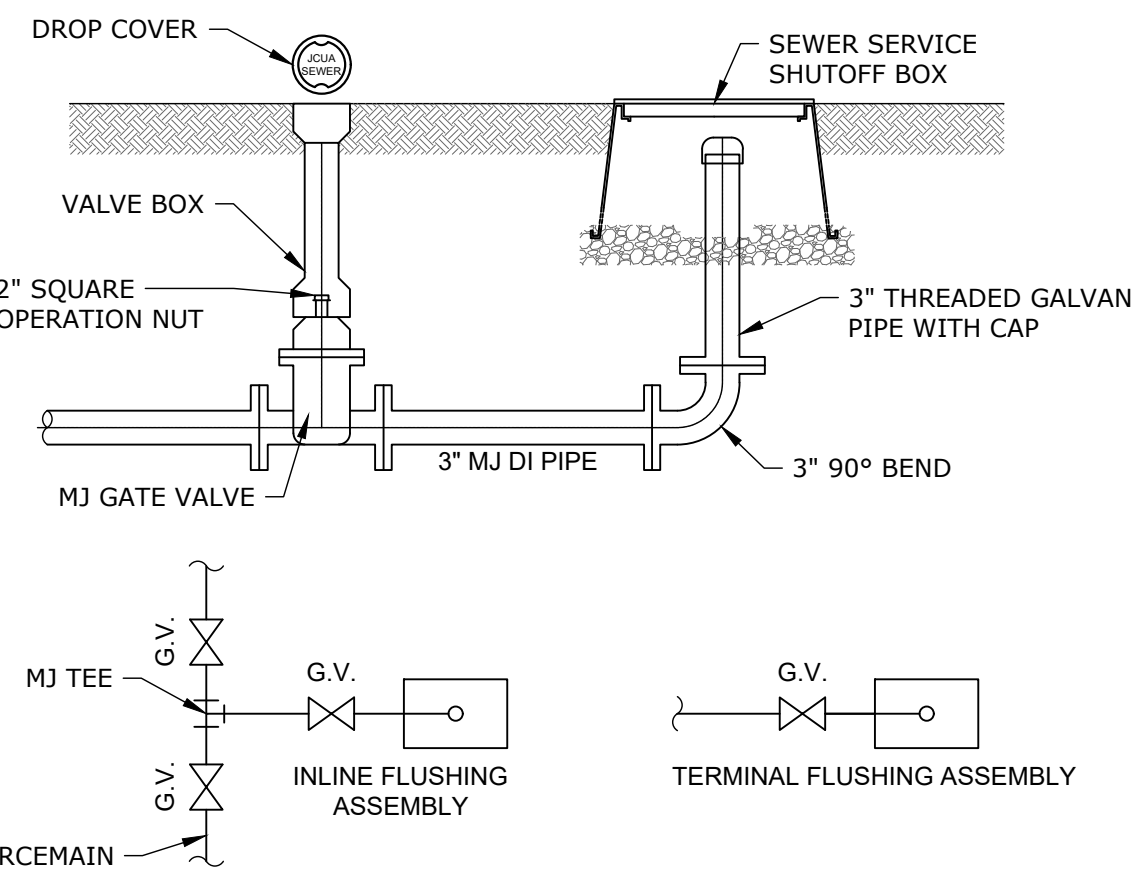
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TANK SIZE	A	B	C	D	E	F	G	H	I	J
1000 GALLON	8'-8"	7'-10"	5'-0"	4'-6"	4'-4"	4'-3"	5'-6"	4'-2"	4"	6"
1500 GALLON	9'-11 1/2"	8'-8"	5'-7"	4'-9 1/4"	4'-4"	4'-6 1/2"	5'-7"	4'-7"	4"	6"
2000 GALLON	14'-0"	12'-8"	4'-7"	4'-0"	3'-3"	3'-9"	6'-8"	5'-4"	4"	6"
3000 GALLON	14'-0"	12'-8"	6'-11 1/2"	5'-9"	5'-4"	5'-6"	6'-8"	5'-4"	4"	6"

- NOTES:
- COORDINATE STEP SEPTIC TANK WITH JCUA, SEE NOTE ON SHEET C1.00.
 - FIBERGLASS TANK (IN LIEU OF CONCRETE) MEETING SPECIFICATIONS WILL BE ALLOWED.

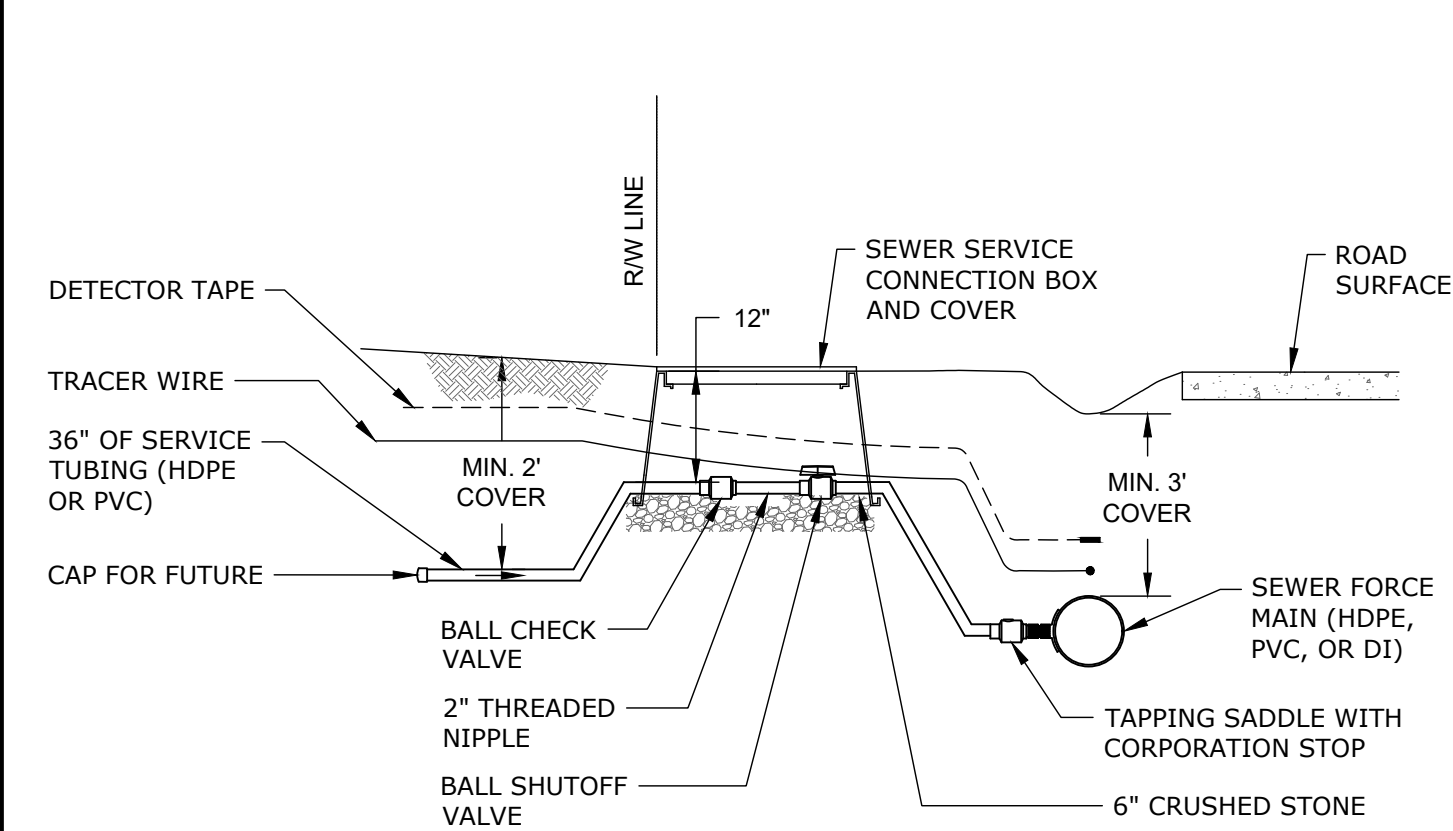
1 STEP TYPE SEPTIC TANK DETAIL
D2.00 NOT TO SCALE



STEP TYPE (SEPTIC TANK) NOTES, SEE DETAIL 1:

- SEPTIC TANK AND LID TO BE CONSTRUCTED OF 4,000 PSI CONCRETE.
- TANK BOTTOM AND WALLS SHALL BE MONOLITHICALLY CONSTRUCTED. TOP SLAB SHALL BE POURED ON THE WALLS WITH WALL REINFORCEMENT EXTENDING INTO THE TOP SLAB. REINFORCEMENT FOR THE TANK SHALL BE DESIGNED BY STRUCTURAL ENGINEER FOR SPECIFIC INSTALLATION.
- PROVIDE MANHOLE ACCESS AT EACH END OF TANK.
- TANK AND LID TO BE COATED INSIDE AND OUT WITH THURO-SEAL OR OTHER APPROVED SEALANT.
- TANK SHALL BE TESTED FOR LEAKS AND CERTIFIED BY THE MANUFACTURER PRIOR TO DELIVERY TO THE SITE.
- SEPTIC TANKS IN TRAFFIC AREAS SHALL BE SPECIFICALLY DESIGNED FOR THE PROJECT CONDITIONS, CONTACT JACKSON COUNTY UTILITY AUTHORITY FOR REQUIREMENTS.

2 FLUSHING ASSEMBLY
D2.00 NOT TO SCALE



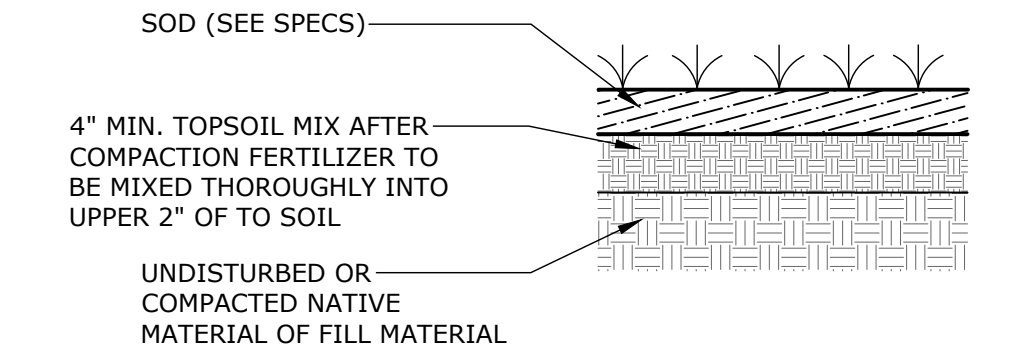
NOTE:

ALL STEP TYPE TANKS AND GRINDER PUMP STATIONS SHALL REQUIRE THIS CONNECTION TO SEWER FORCE MAIN. CONTRACTOR SHALL INSTALL A CONNECTION FOR EACH INDIVIDUAL LOT AND VALVE ASSEMBLY AND INSTALL CAP ON EACH SERVICE FOR FUTURE CONNECTION. MINIMUM SERVICE TUBING SIZE SHALL BE 1" FOR STEP TANK TYPE SYSTEM AND 1-1/2" FOR LOW PRESSURE GRINDER TYPE SYSTEM, UNLESS OTHERWISE APPROVED BY THE AUTHORITY.

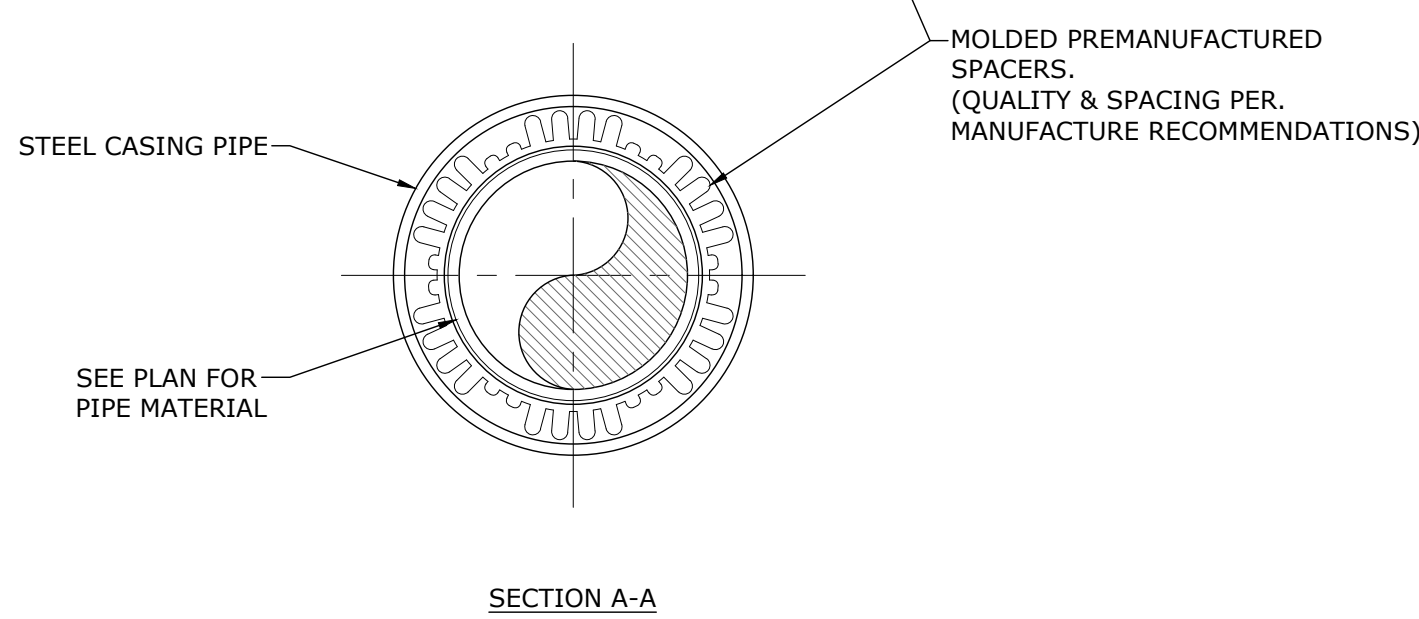
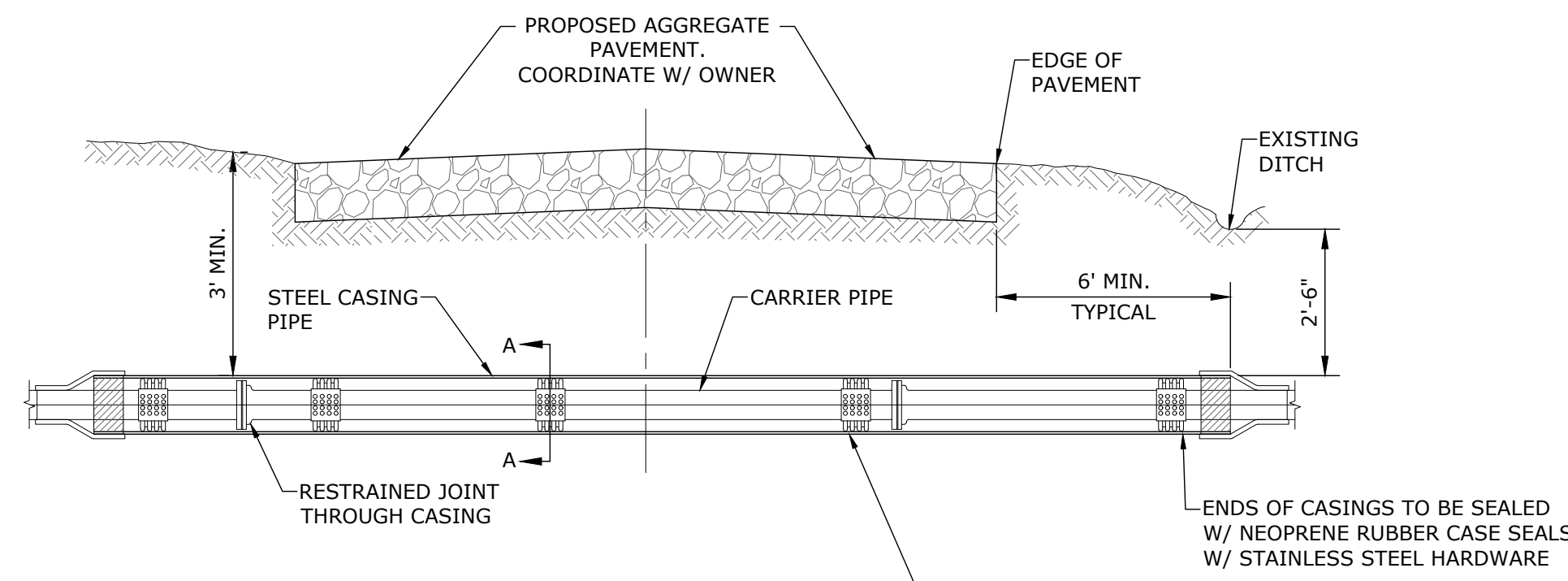
3 PRESSURE SEWER SERVICE CONNECTION DETAIL
D2.00 NOT TO SCALE

SPRIGGING/SODDING NOTES:

- SOD ALL AREAS AS INDICATED ON PLANS WITH ASPA CERTIFIED GRADE SOD MEETING SPECIFICATION REQUIREMENTS.
- SEE SPECIFICATIONS FOR PREPARATION
- SOD IS TO BE ROLLED AND WATERED AT TIME OF INSTALLATION
- ENDS OF SOD PANELS ARE TO BE OFFSET. SOD PANELS BE LAID TIGHTLY TOGETHER SO AS TO MAKE SOLID SODDED AREA.
- SOD IS TO BE LAID AS SOON AS IT IS DELIVERED TO PLANTING AREAS. ONLY HEALTHY, MOIST, AND GREEN SOD IS TO BE LAID. ANY SOD WHICH IS BROWN AND UNDER STRESS IS UNACCEPTABLE. ANY SOD WHICH IS NOT LAID WITHIN 24 HOURS OF DELIVERY IS UNACCEPTABLE UNLESS APPROVED A/E.
- 4" OF TOPSOIL IS TO BE INSTALLED PRIOR TO SOD. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



4 SODDING DETAIL
D2.00 NOT TO SCALE



CARRIER	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"
CASING	12"	12"	12"	16"	18"	20"	22"	26"	28"	30"
CASING / WALL THICKNESS	0.250"	0.250"	0.250"	0.281"	0.312"	0.344"	0.344"	0.406"	0.438"	0.469"

UNLESS OTHERWISE NOTES IN THE PLANS

5 STEEL CASING DETAIL
D2.00 NOT TO SCALE

GENERAL NOTES:

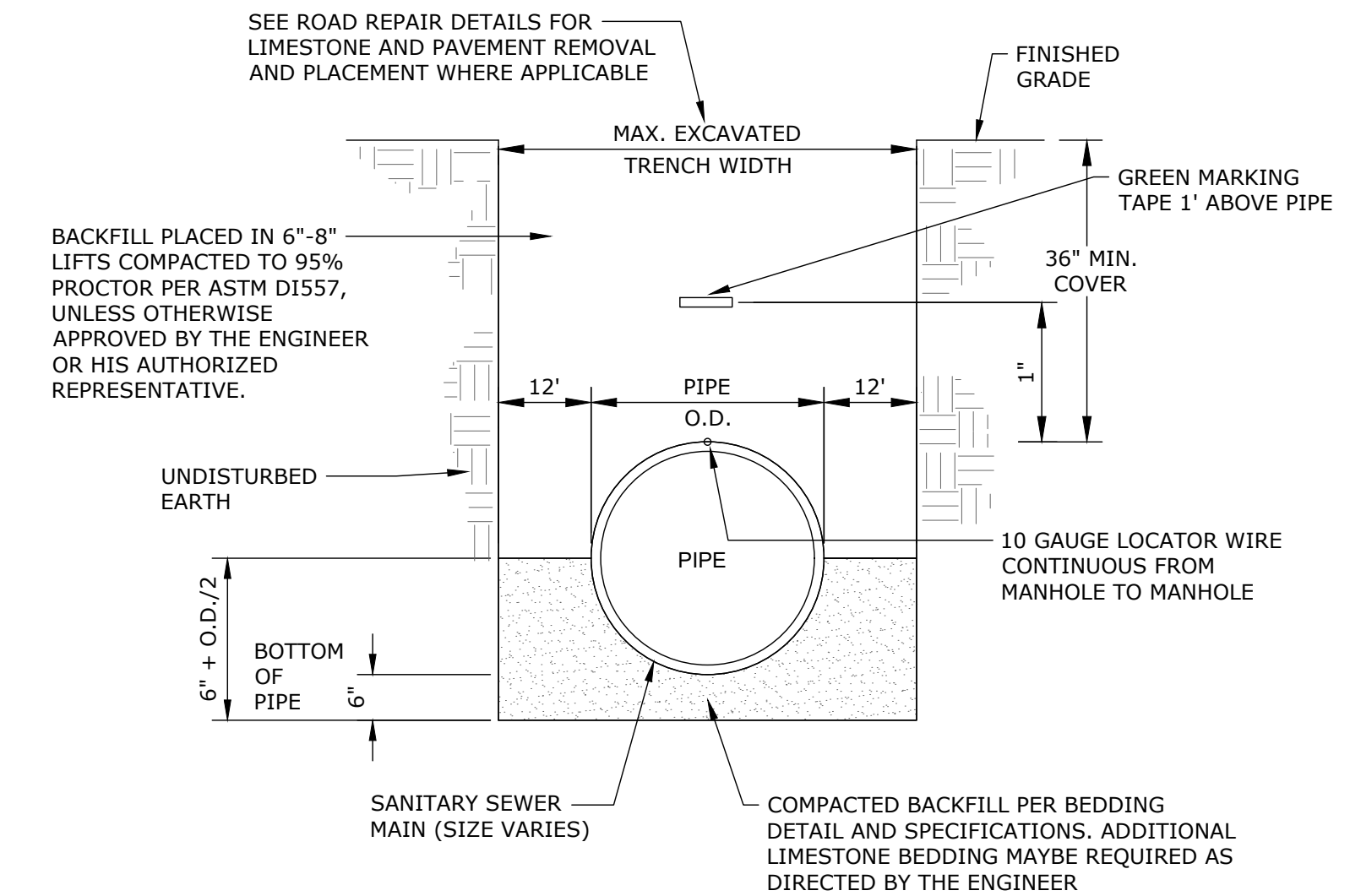
- WHEN CONSTRUCTION IS WITHIN DOT JURISDICTION, ADDITIONAL REQUIREMENTS OF THE UTILITY ACCOMMODATION GUIDE SHALL BE MET.
- WHERE PRACTICAL, CASING SHALL EXTEND 6' BEYOND EDGE OF PAVEMENT AND SHALL NOT BE LESS THAN 3' BEYOND EDGE OF PAVEMENT.
- CASING PIPE JOINTS SHALL BE MADE BY USING A FULL CIRCUMFERENCE COMPLETE PENETRATION GROOVE WELD.
- STANDARD DETAILS ARE INTENDED TO DEFINE THE GENERAL DESIGN AND SCOPE REQUIRED TO COMPLETE THE WORK AND MAY REQUIRE MINOR ADJUSTMENTS BASED ON SITE SPECIFICS. THE CONTRACTOR SHALL INCLUDE ALL COMPONENTS WHICH ARE NORMALLY INCIDENTAL TO THE WORK. THOSE COMPONENTS WHICH ARE NOT SHOWN ON THE DRAWING, BUT WHICH ARE REQUIRED AS AN ESSENTIAL AESTHETIC, FUNCTIONAL, OR CODE REQUIRED ELEMENT OF THE WORK ARE TO BE INCLUDED.

PIPE PLACEMENT NOTES:

- TRANSMISSION LINES CROSSING UNDER PAVED ROADS, STATE AND U.S. HIGHWAY RIGHT-OF-WAY AND RAILROAD RIGHT-OF-WAY SHALL BE ENCASED AND PLACED BY BORING OR JACKING AS SHOWN AND SPECIFIED. BORING OR JACKING SHALL EXTEND AS SHOWN ON THE PLAN SHEETS. ALL WORK SHALL BE DONE AS SHOWN ON THIS DRAWING.
- ALL TRANSMISSION LINES SHALL HAVE A MINIMUM COVER OF 36" EXCEPT WHERE LESS COVER IS INDICATED ON THE DRAWINGS. ALL TRENCH EXCAVATION WITHIN RIGHT-OF-WAY AND NOT UNDER PAVING SHALL BE BACKFILLED BY TAMPING IN 6" LAYERS. ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY AND EXCAVATION FINISHED FLUSH WITH THE SURROUNDING GROUND.
- CARRIER PIPE SHALL BE AS SHOWN ON PLAN SHEETS AND AS CALLED FOR IN THE TECHNICAL SPECIFICATIONS.
- WHERE GRASS IS DISTURBED BY EXCAVATION OR BACKFILL OPERATION, SUCH AREAS SHALL BE REPLACED BY MULCH SEEDING ON ALL SLOPES OF 5% OR LESS. ALL SLOPES OVER 5% SHALL BE REPLACED WITH BLOCK SODDING.
- THE INSTALLATION OF SAID FACILITY SHALL BE DONE UNDER THE SUPERVISION AND CONTROL OF THE ENGINEER AND GOVERNING AGENCIES (MDOT, COUNTY, CITY OR OTHER LOCAL), AND THE METHOD OF CROSSING SHALL BE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS FOR HIGHWAY TRAFFIC OVER SAID POINT DURING SUCH WORK AND TO PLACE BARRICADED, WARNING SIGNS, SIGNALS, LIGHTS AND IF NECESSARY, WATCHMEN FOR THE PROTECTION OF THE TRAVELING PUBLIC. ALL TRAFFIC CONTROL DEVICES SHALL MEET ALL MISSISSIPPI DEPARTMENT OF TRANSPORTATION GUIDELINES AND REQUIREMENTS.

SEWER PIPE PLACEMENT NOTES:

- SANITARY SEWER PIPE SHALL BE PVC OR DUCTILE IRON (D.I.) IN ACCORDANCE WITH THE SPECIFICATION. LOCATION FOR INSTALLATION OF PVC OR D.I. PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
- SANITARY SEWER PIPE SHALL BE BURIED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN MINIMUM COVER REQUIREMENTS, BUT COVER SHALL BE A MINIMUM OF 36".
- BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.
- IF EXISTING MATERIAL IS UNSUITABLE FOR BACKFILL, SELECT BACKFILL MATERIAL SHALL BE USED. APPROVED PLACEMENT OF SELECT BACKFILL SHALL BE PAID AT THE CONTRACT UNIT PRICE BID.
- "MAXIMUM EXCAVATED TRENCH WIDTH" REFERS TO THE MAXIMUM WIDTH THAT WILL BE USED FOR COMPUTATION OF APPLICABLE PAY ITEMS FOR BEDDING, BORROW FOR BACKFILL, LIMESTONE, OR PAVING. THE CONTRACTOR MAY EXCAVATE A WIDER TRENCH AT HIS OWN EXPENSE AS LONG AS THE TRENCH REMAINS WITHIN THE LIMITS OF CITY R.O.W., PROPERTY OR EASEMENT AND THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE APPROVES THE DIMENSIONS OF THE WIDER TRENCH.



6 SEWER PIPE PLACEMENT DETAIL
D2.00 NOT TO SCALE

NOTICE TO DRAWING HOLDER

NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS			DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 19141.000
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B	05/24/26	NMB	ISSUED FOR BID	SCALE: AS NOTED
				SURVEYED BY:
				DSGN: GJD DATE: 02/2025
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				CHKD: GJD DATE: 06/2025
				QA/QC: _____ DATE: _____

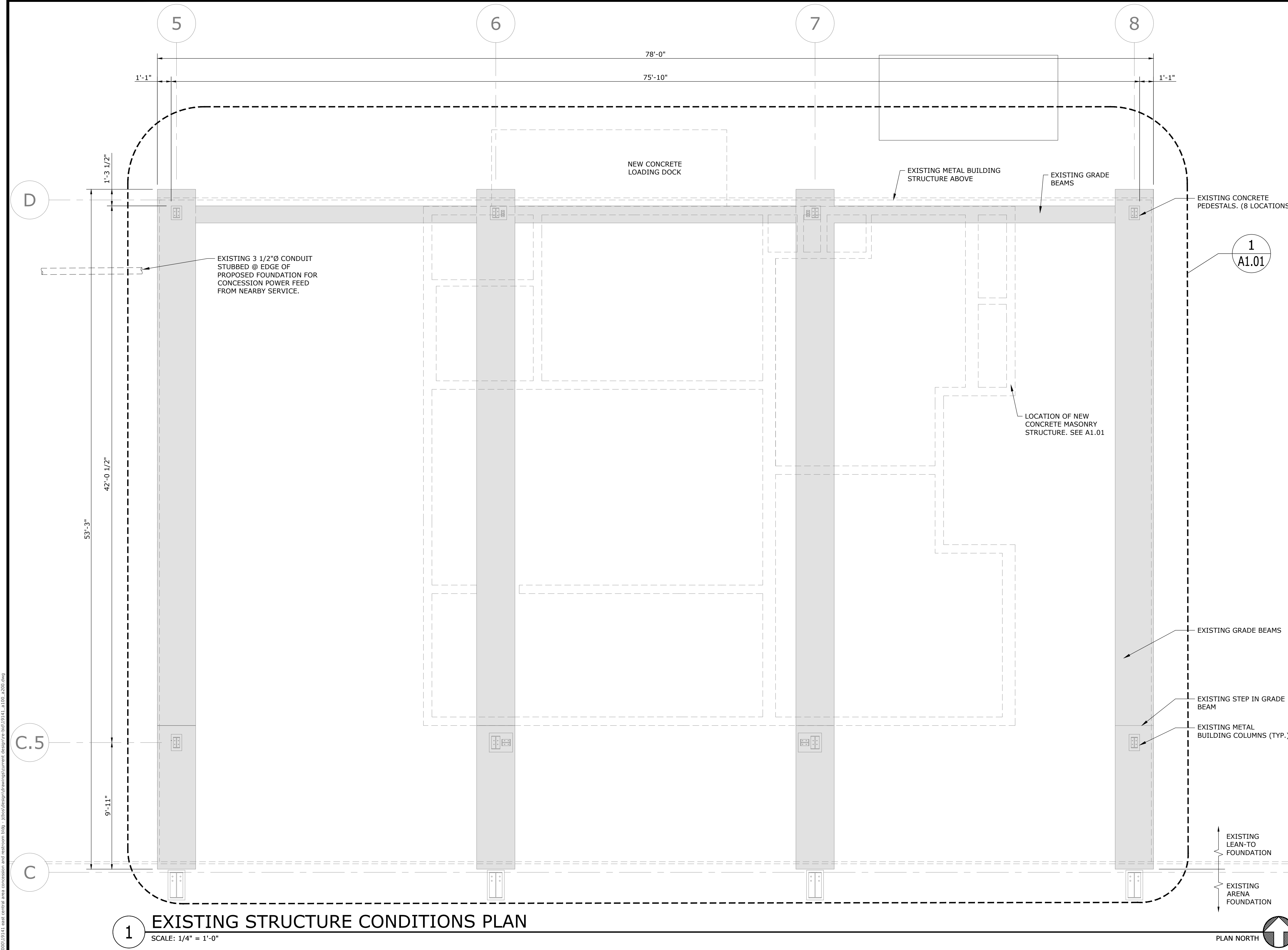
**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

JACKSON COUNTY BOARD OF SUPERVISORS



CIVIL DETAILS

WORKING NUMBER: D2.00	DRAWING NUMBER: 7 of 45
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- SHEET NOTES:**
- EXISTING METAL BUILDING FOUNDATION.
 - CONTRACTOR TO VERIFY SIZE OF ALL EXISTING PEDESTAL PRIOR TO CONSTRUCTION. SEE DETAIL 5/S1.01.
 - THE NEW FOUNDATION WILL ALIGN WITH OUTSIDE FACE OF PEDESTALS, GIVEN THE OUTSIDE FACE OF ALL EXISTING PEDESTALS ARE ALIGNED WITH ONE ANOTHER.
 - ADDITIONAL STRUCTURAL NOTES, SEE S1.01.

1 EXISTING STRUCTURE CONDITIONS PLAN
SCALE: 1/4" = 1'-0"

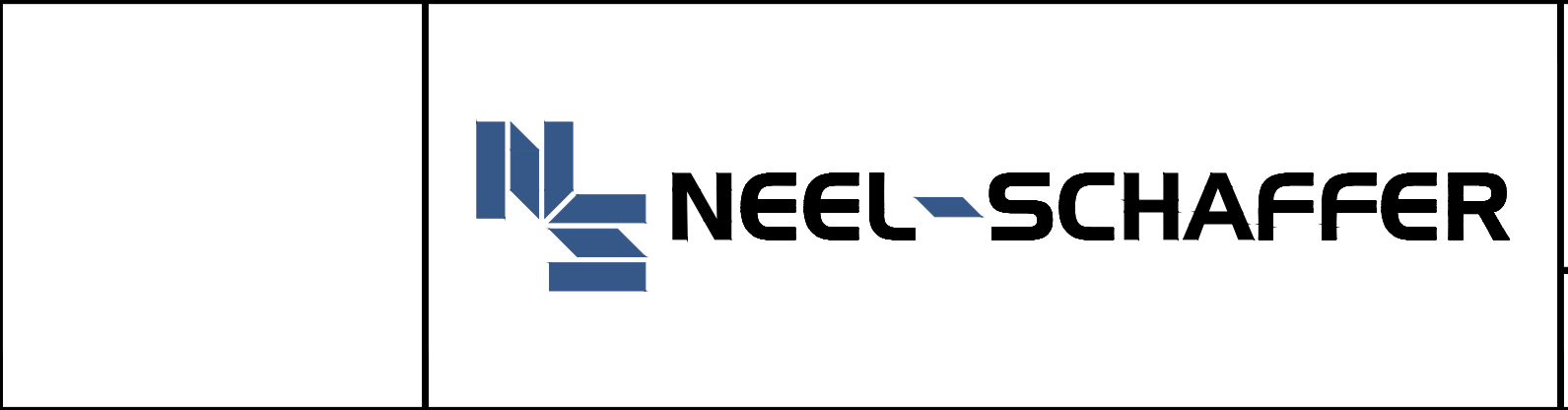


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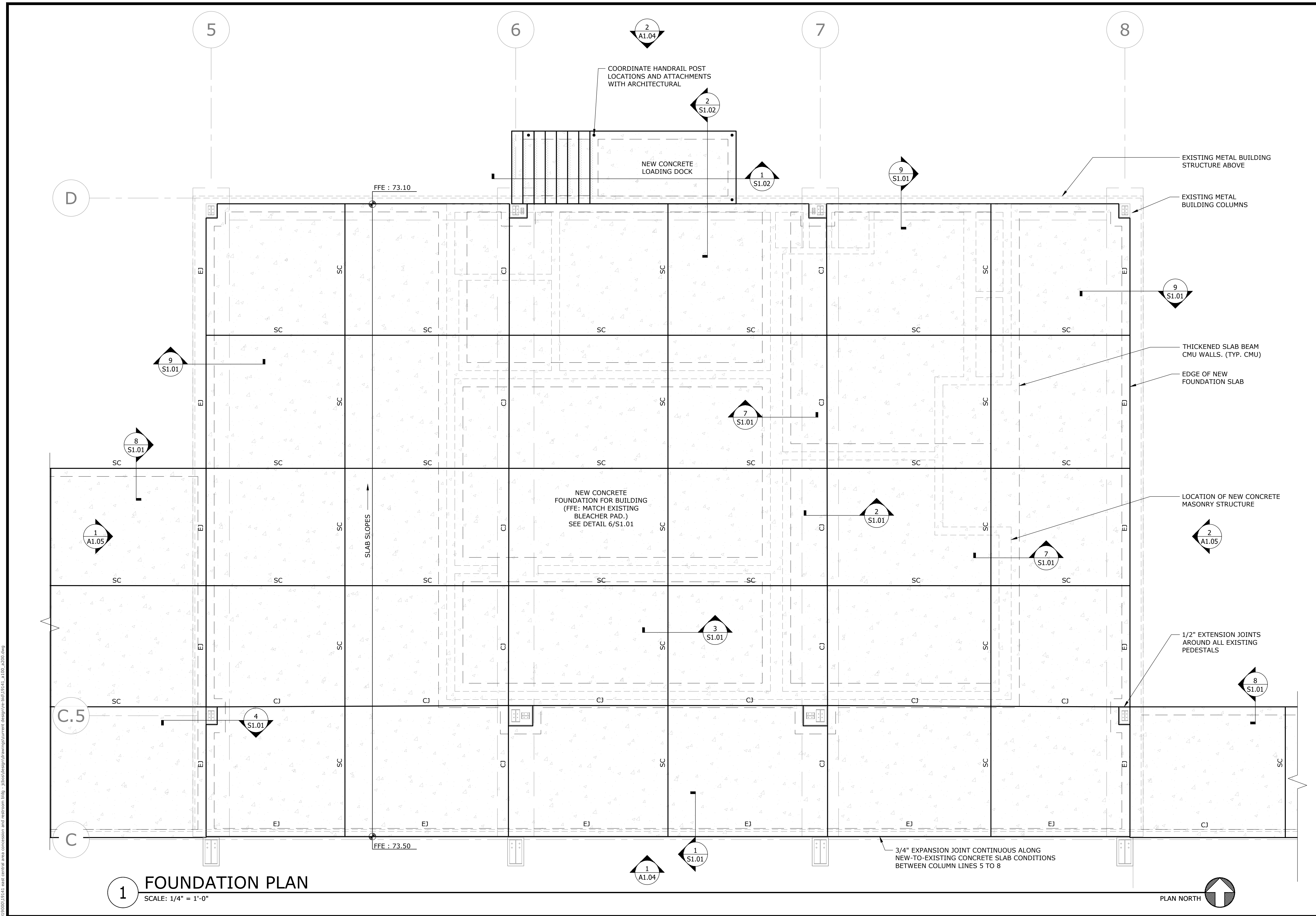
**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

JACKSON COUNTY BOARD OF SUPERVISORS



EXISTING STRUCTURE CONDITIONS PLAN	
WORKING NUMBER: S0.00	DRAWING NUMBER: 8 of 45

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- SHEET NOTES:**
- FOR EXISTING LEAN-TO FOUNDATION, SEE S0.00.
 - FOR EXISTING PEDESTAL SIZE, SEE DETAIL 5/S1.01.
 - FOR CMU PLAN, SEE S2.00.
 - ADDITIONAL STRUCTURAL NOTES, SEE S1.01.

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

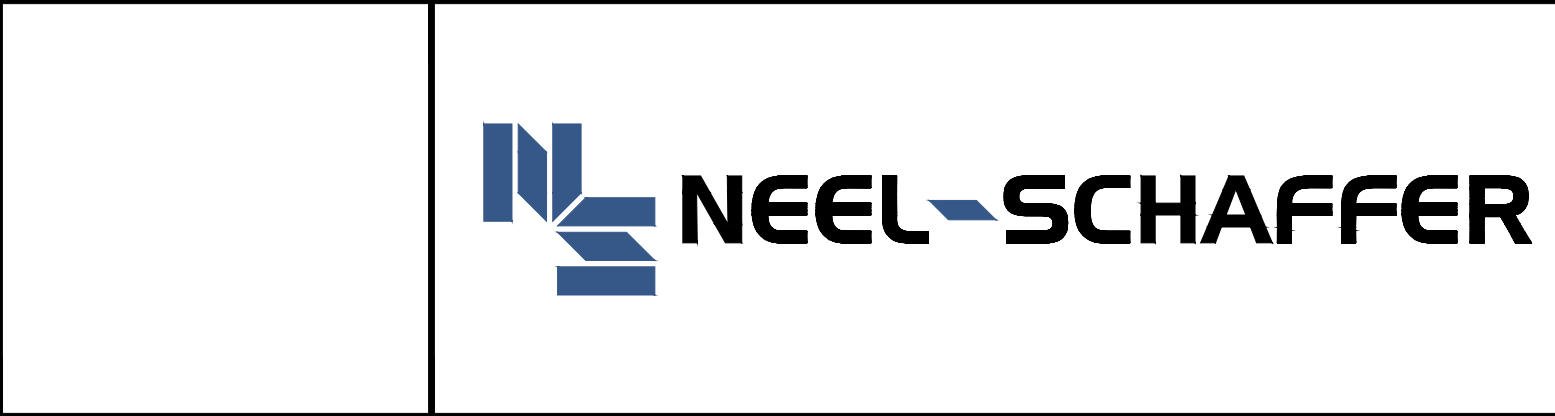


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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

JACKSON COUNTY BOARD OF SUPERVISORS



PROPOSED FOUNDATION PLAN	
WORKING NUMBER: S1.00	DRAWING NUMBER: 9 of 45

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GENERAL STRUCTURAL NOTES:

- ALL DRAWINGS (ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, ELECTRICAL) AND THE SPECIFICATIONS ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION WITH EACH OTHER TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
- NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, BURNED UNLESS PREVIOUSLY APPROVED BY THE ENGINEER OF RECORD. CONTRACTOR SHALL NOT CUT OR PATCH STRUCTURAL WORK IN A MANNER THAT WOULD RESULT IN A REDUCTION OF THE LOAD CARRYING CAPACITY OR THE LOAD/DEFLECTION RATIO.
- STRUCTURAL DESIGN IS BASED ON DIMENSIONS SHOWN ON STRUCTURAL PLANS AND PLANS OF OTHER DISCIPLINES, CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD FOR RESOLUTION.
- THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE THE PROJECT SPECIFICATION.
- VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING BUILDING AND PROPERTY AT THE JOB SITE.
- THE CONTRACTOR SHALL COORDINATE FLOOR ELEVATIONS, SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS BETWEEN STRUCTURAL AND ARCHITECTURAL PRIOR TO CONSTRUCTION
- THE CONTRACTOR SHALL COMPARE STRUCTURAL DIMENSIONS AND SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE A/E PRIOR TO FABRICATION OR INSTALLING STRUCTURAL MEMBERS.
- THE CONTRACTOR SHALL COMPARE DIMENSIONS OF ALL EQUIPMENT WITH THE DRAWINGS AND REPORT ANY DISCREPANCY TO THE A/E PRIOR TO PLACEMENT OF FOUNDATION'S
- DO NOT INSTALL PLUMBING PIPES IN GRADE BEAM TRENCHES. DO NOT PENETRATE GRADE BEAM WITHOUT A/E APPROVAL.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODES.

REINFORCING STEEL: (SEE ALSO DIVISION 5 OF SPECIFICATIONS)

- ALL REINFORCING STEEL SHALL BE GRADE 60 AND SHALL CONFORM TO ASTM A615. DETAILING OF REINFORCING STEEL SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL. REINFORCING STEEL SHALL BE GALVANIZED OR EPOXY COATED WHERE INDICATED ON THE DRAWINGS
- PROVIDE STANDARD, BAR CHAIRS AND SPACERS AT 5'-0" CENTERS FOR ALL SLABS AND BEAMS ABOVE GRADE.
- PROVIDE 20 GAUGE SHEET METAL BAR CHAIRS AT 4'-0" MAXIMUM CENTERS EACH WAY FOR ALL REINFORCING FOR SLABS AND BEAMS ON GRADE AND PILE CAPS.
- LAP SPLICES SHALL BE CLASS A TENSION PER LATEST EDITION OF ACI 318 UNLESS NOTED OTHERWISE. WIRE FABRIC MUST OVERLAP ONE FULL MESH PLUS 6 INCHES AT SIDE AND END LAPS AND TIED TOGETHER. REINFORCING STEEL MINIMUM COVERAGE SHALL BE AS FOLLOWS:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER:

NO. 6 THROUGH NO. 18 BARS	2"
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1-1/2"
 - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS:

NO. 14 AND NO. 18 BARS	1-1/2"
NO. 11 BAR AND SMALLER	3/4"
 - D. BEAMS, COLUMNS:

PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1-1/2"
--	--------
 - E. SHELLS, FOLDED PLATE MEMBERS:

NO. 6 AND LARGER	1-1/2"
NO. 5 BAR, W31 OR D3 WIRE, AND SMALLER	1/2"
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. SUPPORT WWF AT THE PROPER DEPTH PRIOR TO PLACING CONCRETE. PULLING UP WWF WHILE THE CONCRETE IS BEING PLACED WILL NOT BE ALLOWED. IN LIEU OF WWF, #3 BARS PLACED AT 12 INCHES ON CENTER EACH WAY, MAY BE USED AT THE CONTRACTOR'S OPTION.

CONCRETE MASONRY UNIT (CMU) WALLS: (SEE ALSO DIVISION 4 OF SPECIFICATIONS)

- CONCRETE BLOCK SHALL BE ASTM C-90 LIGHTWEIGHT, GRADE "N", TYPE 1 UNITS. PROVIDE BOND BEAM UNITS WHERE SHOWN ON DRAWINGS.
- ALL CONCRETE MASONRY UNITS (CMU) SHALL HAVE A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF $f_m = 2000$ PSI IN 28 DAYS UNLESS NOTED OTHERWISE.
- ALL REINFORCED CELLS CMU WALLS SHALL BE CONSTRUCTED USING ONLY TYPE "S" MORTAR.
- ALL REINFORCED CELLS OF CMU WALLS SHALL BE FILLED WITH GROUT TESTING 2000 PSI AT 28 DAYS. DO NOT FILL UNREINFORCED CELLS WITH GROUT. MAXIMUM AGGREGATE SIZE IN GROUT SHALL BE 1/2". GROUT SHALL BE WELL RODDED IN EACH CORE TO ACHIEVE COMPLETE CONSOLIDATION.
- DOWELS INTO SUPPORTING MEMBERS SHALL BE THE SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT. EXTEND DOWELS 2'-0" INTO THE SUPPORT MEMBERS UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT AND DOWELS SHALL HAVE A LAP SPlice LENGTH OF 2'-0" UNLESS NOTED OTHERWISE.
- REINFORCE I CELL AT EACH CORNER, EACH SIDE OF OPENINGS, EACH SIDE OF CONTROL JOINTS, AND AT SPACING SHOWN ON THE DRAWINGS.
- ALL VERTICAL STEEL SHALL BE POSITIONED IN THE WALL USING GALVANIZED "REBAR POSITIONERS" BY AA WIRE PRODUCTS CO. OR EQUAL UNLESS SPECIFICALLY DETAILED OTHERWISE.
- PROVIDE STANDARD GALVANIZED TRUSS-TYPE HORIZONTAL JOINT REINFORCEMENT OF 9 GAGE GALVANIZED WIRE EVERY OTHER COURSE (16" ON CENTER). SIDE RODS SHALL BE DEFORMED WIRE AND CROSS RODS SHALL BE PLAIN WIRE, BOTH COMPLYING WITH ASTM A62. LAP 6" MINIMUM. PROVIDE PREFABRICATED L AND T-SHAPED UNITS AT CORNERS AND INTERSECTIONS.
- PROVIDE A CONTINUOUS 8" DEEP CONCRETE FILLED BOND BEAM AT THE TOP OF EACH WALL AND AT THE SILL OF OPENINGS AND AT 10'-0" VERTICAL INTERVALS (EVERY 15th COURSE) IN ALL LOAD BEARING WALLS OR WALLS THAT EXTEND FROM THE FLOOR TO THE CEILING (FIRE PROOF WALLS). REINFORCE BOND BEAMS WITH 2-#5 CONTINUOUS. PROVIDE 1-#6x4'-0" L-SHAPED BAR AT CORNERS. ALL NON-LOAD BEARING WALLS SHALL HAVE #5x30" DOWEL VERTICAL REINFORCEMENT AT 72" O.C. AND GROUT TO 24" A.F.F.
- ALL REINFORCING FOR CMU WALLS SHALL BE GALVANIZED OR EPOXY COATED.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODES.

LINTELS:

- 4" MASONRY LINTEL SCHEDULE: UNLESS SHOWN OTHERWISE, THE FOLLOWING LOOSE LINTEL SCHEDULE SHALL BE HOT DIPPED GALVANIZED STEEL.

CLEAR OPENING	LINTEL ANGLE REQUIRED
0 TO 4'-0"	3 1/2" x 3 1/2" x 1/4"
4'-0" TO 6'-0"	4" x 3 1/2" x 3/8"
6'-0" TO 8'-0"	5" x 3 1/2" x 3/8"
- CMU LINTEL SCHEDULE:

CLEAR OPENING	LINTEL REQUIRED	REINFORCING
0 TO 4'-0"	8" x 8"	2 - #6 BOT.
4'-1" TO 6'-0"	8" x 16"	2 - #6 BOT.

EXTEND LINTEL A MINIMUM OF 16" EACH SIDE OF OPENING. FILL BLOCK (16") EACH SIDE OF OPENING WITH CONCRETE AND 1-#5 FROM FOUNDATION TO UNDER LINTEL. FILL LINTEL BLOCK WITH CONCRETE.

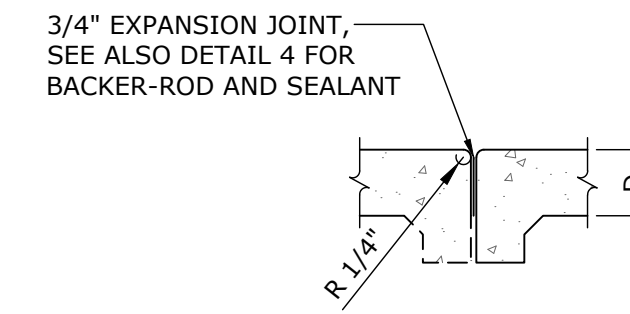
WOOD FRAMING: (SEE ALSO DIVISION 6 OF SPECIFICATIONS)

- ALL WORK SHALL COMPLY WITH THE LATEST PROVISIONS OF AITC, AND THE INTERNATIONAL BUILDING CODE (IBC).
- FRAMING SHALL BE CONNECTED AT BEARING FOR GRAVITY LOADS INDICATED, AND FOR 63.34 PSF WIND UPLIFT PER IBC REQUIREMENTS. SEE COMPONENTS AND CLADDING PRESSURE CHARTS.
- ALL PLATES, NUTS, WASHERS AND BOLTS SHALL BE HOT DIPPED GALVANIZED PER ASTM A-153. BOLTS AND NUTS IN CONTACT WITH WOOD SHALL HAVE A STEEL WASHER UNDER THE HEAD.
- ALL STRUCTURAL MEMBERS SHALL BE SOUTHERN YELLOW PINE, OR DOUGLAS FIR-LARCH WITH A MOISTURE CONTENT NOT EXCEEDING 15%. ALL LUMBER SHALL BE GRADE MARKED AND SHALL MEET THE FOLLOWING:

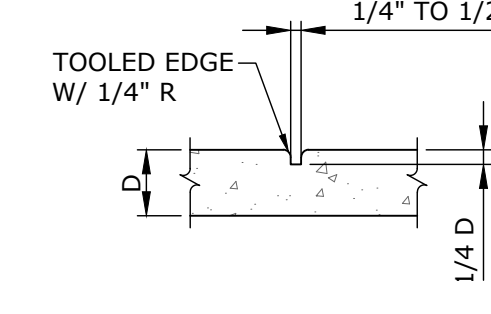
A. MODULUS OF ELASTICITY	=	1,600,000 PSI	
B. BENDING STRESS:		4x8 *	10x12 * AND WIDER
SINGLE MEMBER	=	1800 PSI	1800 PSI
REPETITIVE MEMBER	=	1800 PSI	1800 PSI
C. SHEAR PARALLEL TO GRAIN	=	175 PSI	175 PSI
D. COMPRESSIVE STRESS:			
PARALLEL TO GRAIN	=	1800 PSI	1800 PSI
PERPENDICULAR TO GAIN	=	565 PSI	565 PSI
- ALL SAWN LUMBER SHALL BE FULL CUT DIMENSION AND NO. 1 AND BETTER GREEN FOHC DOUGLAS FIR

WOOD ROOF DECK:

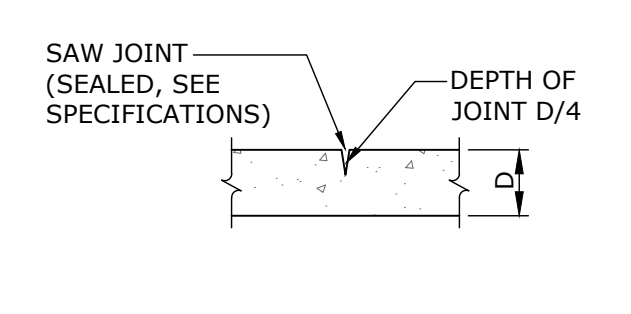
- ROOF DECK SHALL BE 5/4 INCH (NOMINAL) THICK TONGUE AND GROOVE, EXTERIOR GRADE WOOD STRUCTURAL PER AITC 112 OVERLAP WITH 1/2" MARINE GRADE PLYWOOD. 3/4" MARINE GRADE PLYWOOD ON DORMER.
- PROVIDE ANCHORAGE OF WOOD DECK TO RAFTERS AS INDICATED. PROVIDE MINIMUM #14 SCREWS AT 6" O.C. WITH 2" PENETRATION (LENGTH = 3.25" MINIMUM).
- ALL TEK SCREWS ARE TO BE GALVANIZED STEEL SCREWS.
- PLYWOOD SHALL BE APA RATED SHEATHING AND GRADE-STAMPED. WHERE EXPOSED TO MOISTURE, PROVIDE STANDARD INT-DPPA WITH EXTERIOR GLUE FINISH SHALL BE MINIMUM GRADE C-D.



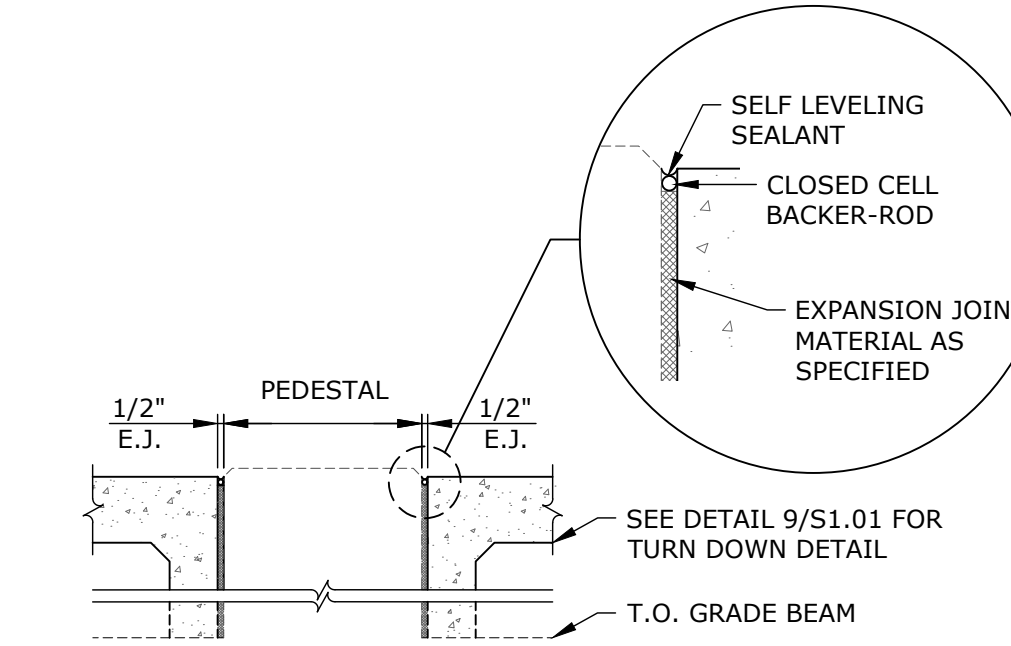
1 EXPANSION JOINT (EJ)
S1.01 NOT TO SCALE



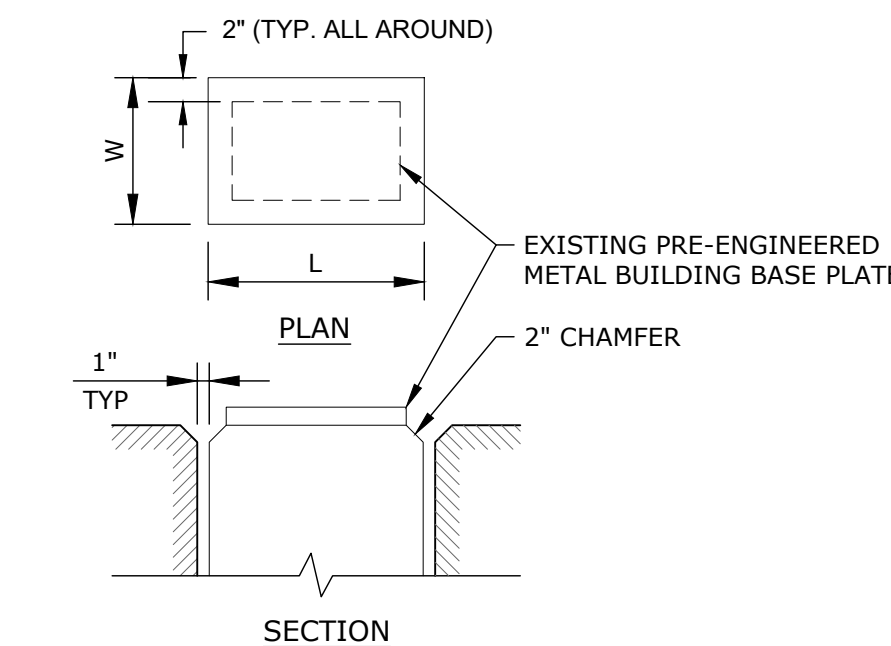
2 CONTROL JOINT (CJ)
S1.01 NOT TO SCALE



3 SAW CUT JOINT (SC)
S1.01 NOT TO SCALE

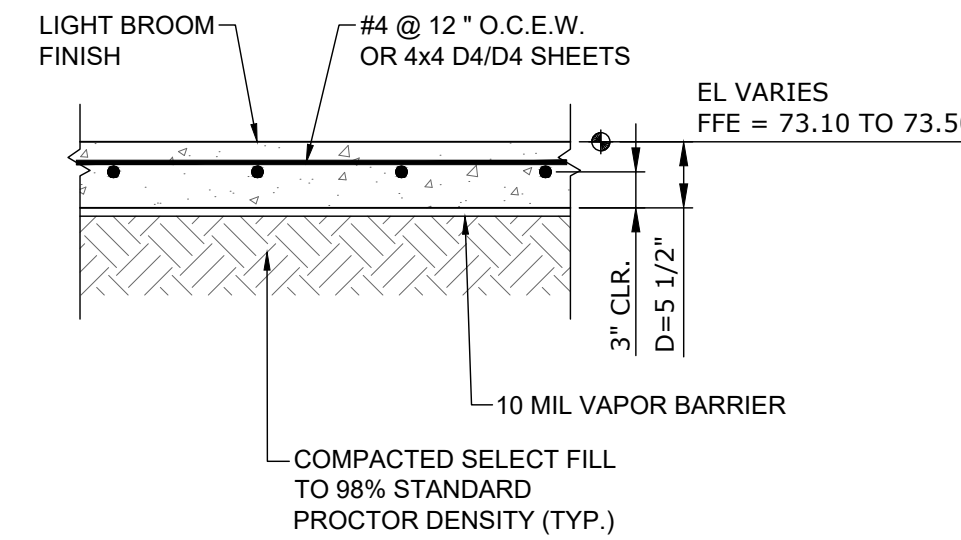


4 EXPANSION JOINT
S1.01 SCALE: 3/4" = 1'-0"

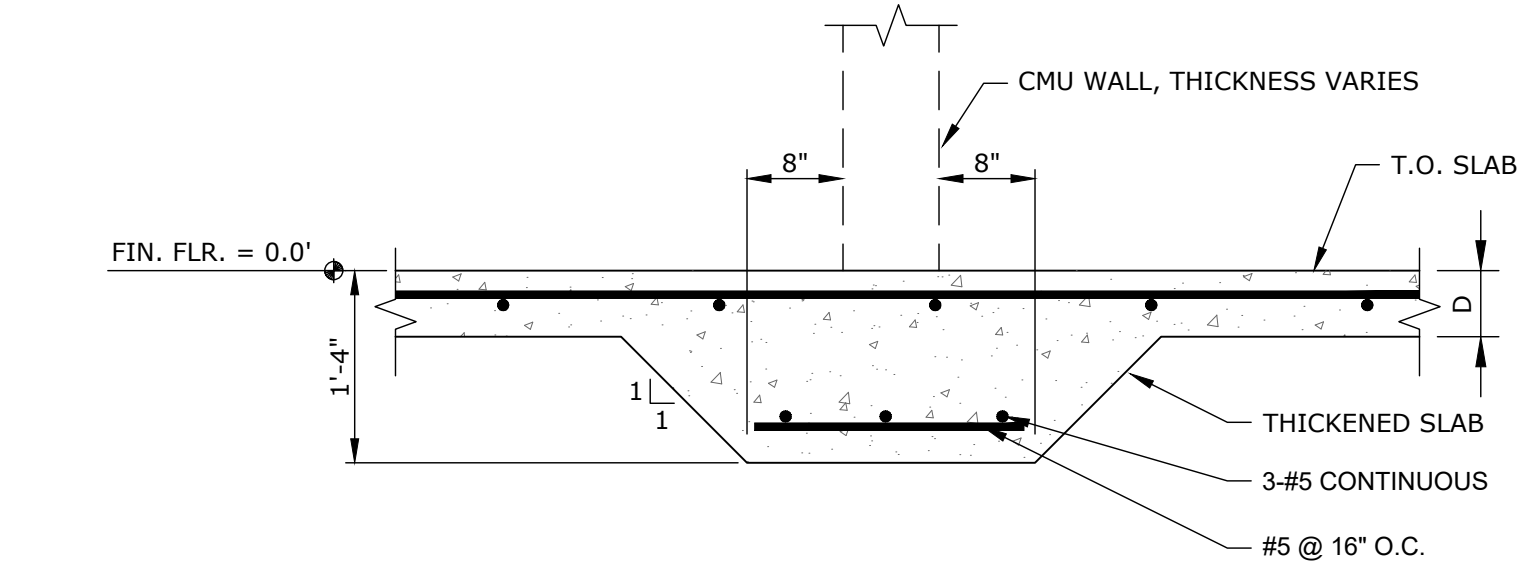


5 TYP. EXISTING PEDESTAL SIZE
S1.01 SCALE: NOT TO SCALE

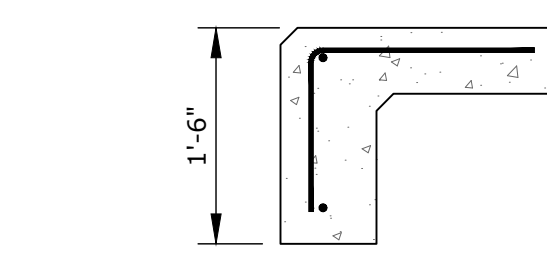
COLUMN SCHEDULE		
LOCATION	WIDTH	LENGTH
C.5/5	10"	15 1/2"
C.5/6	18"	22"
C.5/7	18"	22"
C.5/8	10"	15 1/2"
D/5	10"	13"
D/6	15 1/2"	13"
D/7	15 1/2"	13"
D/8	10"	13"



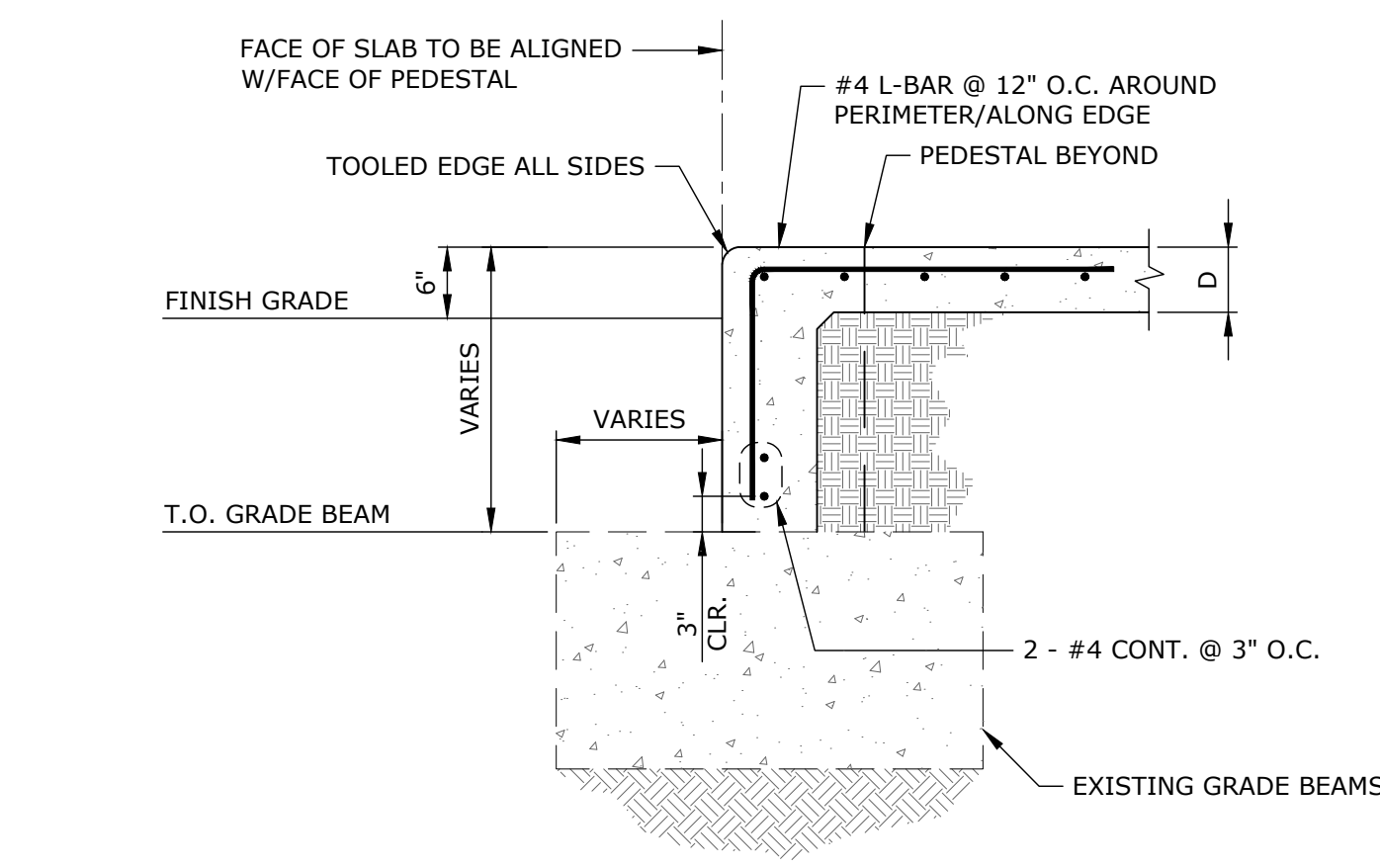
6 TYPICAL CONCRETE SLAB
S1.01 SCALE: 3/4" = 1'-0"



7 THICKEN SLAB @ ALL CMU WALLS
S1.01 SCALE: 3/4" = 1'-0"



8 EDGE OF SIDEWALK
S1.01 SCALE: 3/4" = 1'-0"



9 TYP. EDGE OF SLAB/TURN DOWN
S1.01 SCALE: 3/4" = 1'-0"

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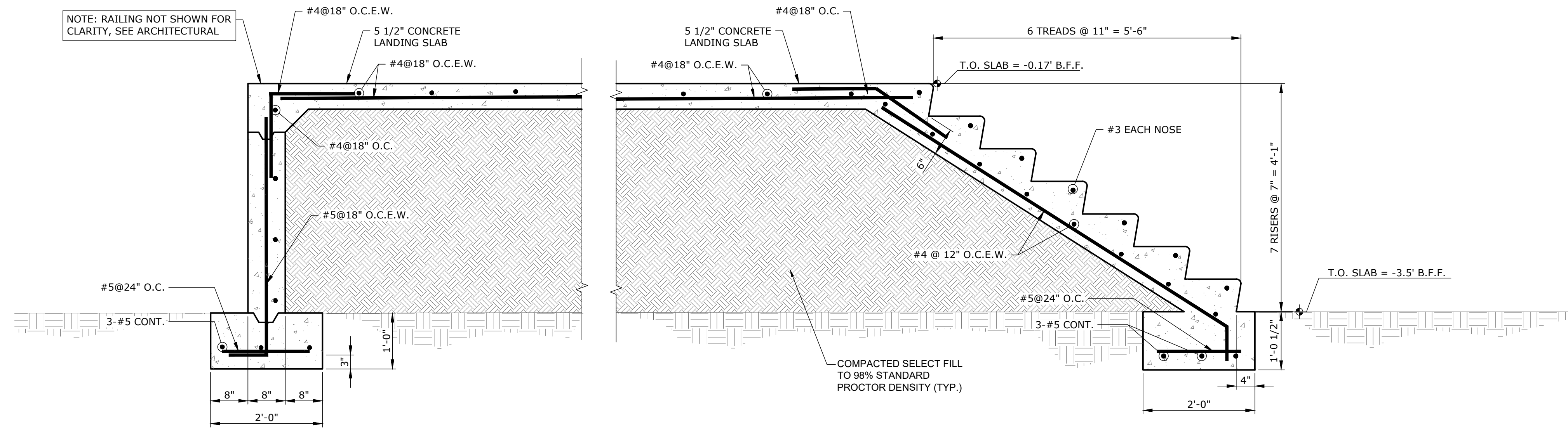
**EAST CENTRAL MULTI-PURPOSE ARENA
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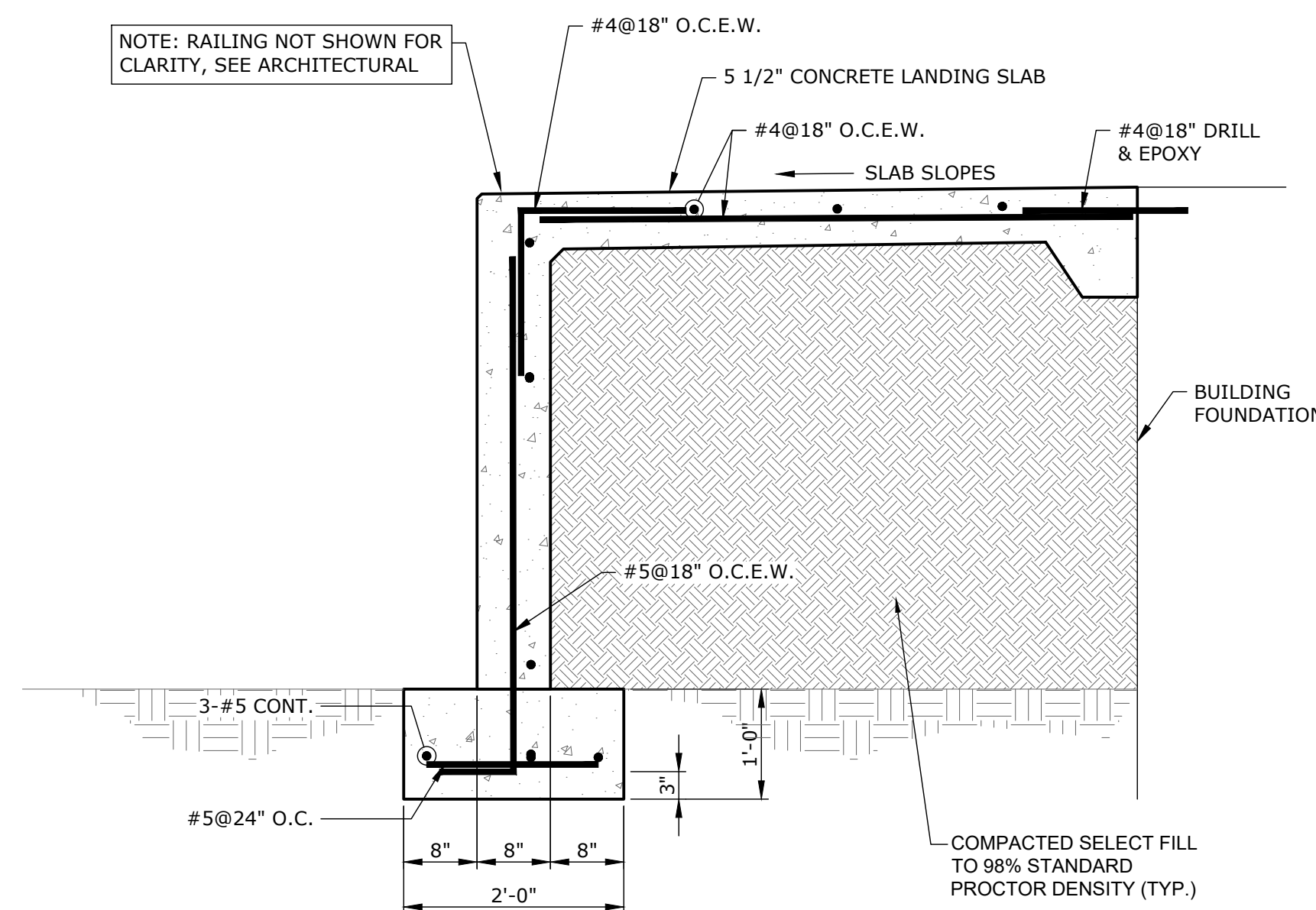
NEEL-SCHAFFER

**STRUCTURAL NOTES &
FOUNDATION DETAILS**

WORKING NUMBER: S1.01
DRAWING NUMBER: 10 of 45



1 SECTION - THRU LOADING DOCK STEPS
 S1.02 SCALE: 3/4" = 1'-0"

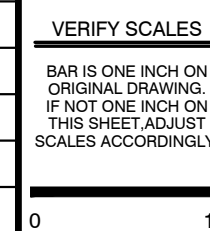


2 SECTION @ FRONT STEPS
 S1.02 SCALE: 3/4" = 1'-0"

NOTICE TO DRAWING HOLDER

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**EAST CENTRAL MULTI-PURPOSE ARENA
 CONCESSION AND RESTROOMS
 (RE-BID)**

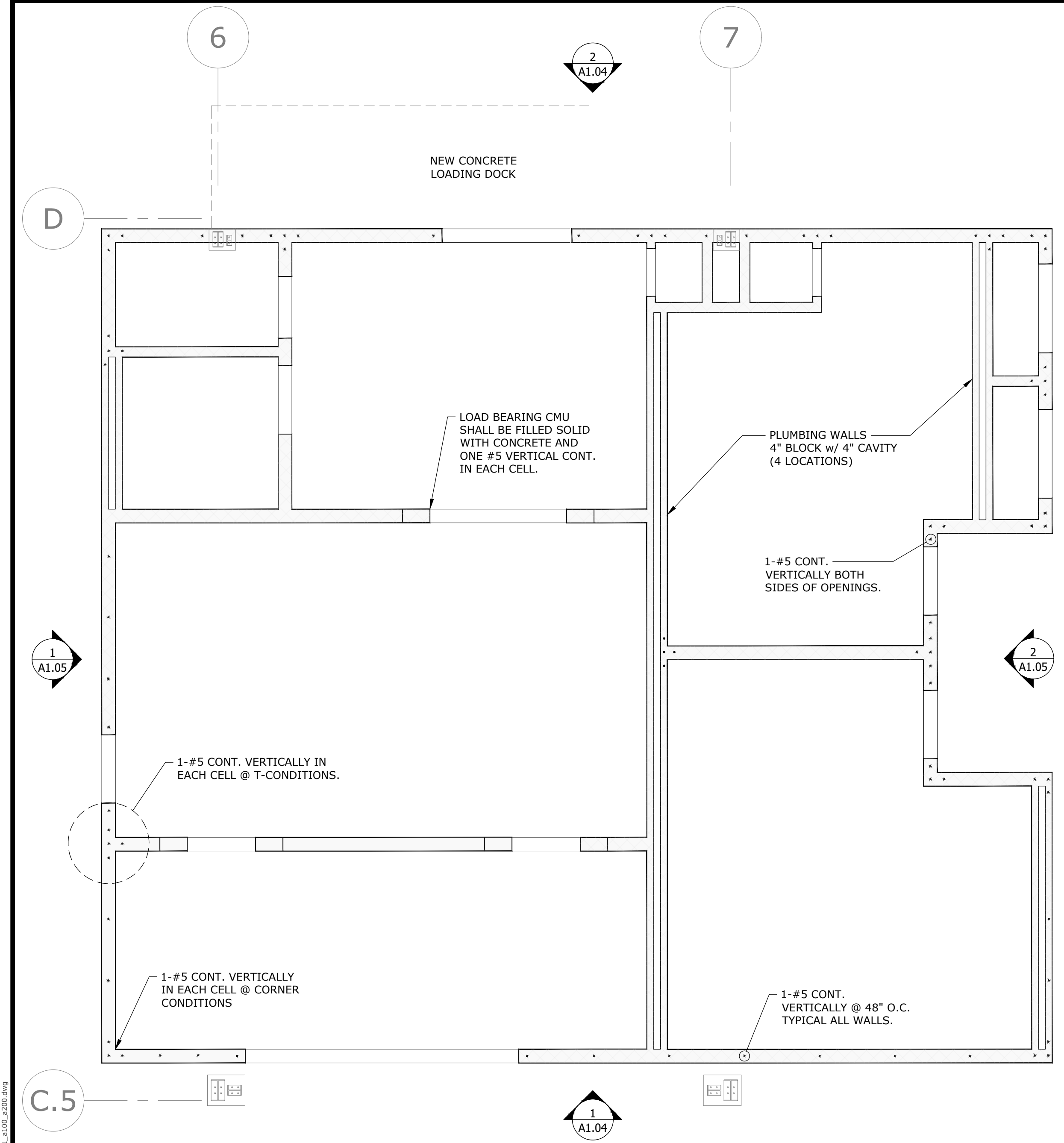
JACKSON COUNTY BOARD OF SUPERVISORS



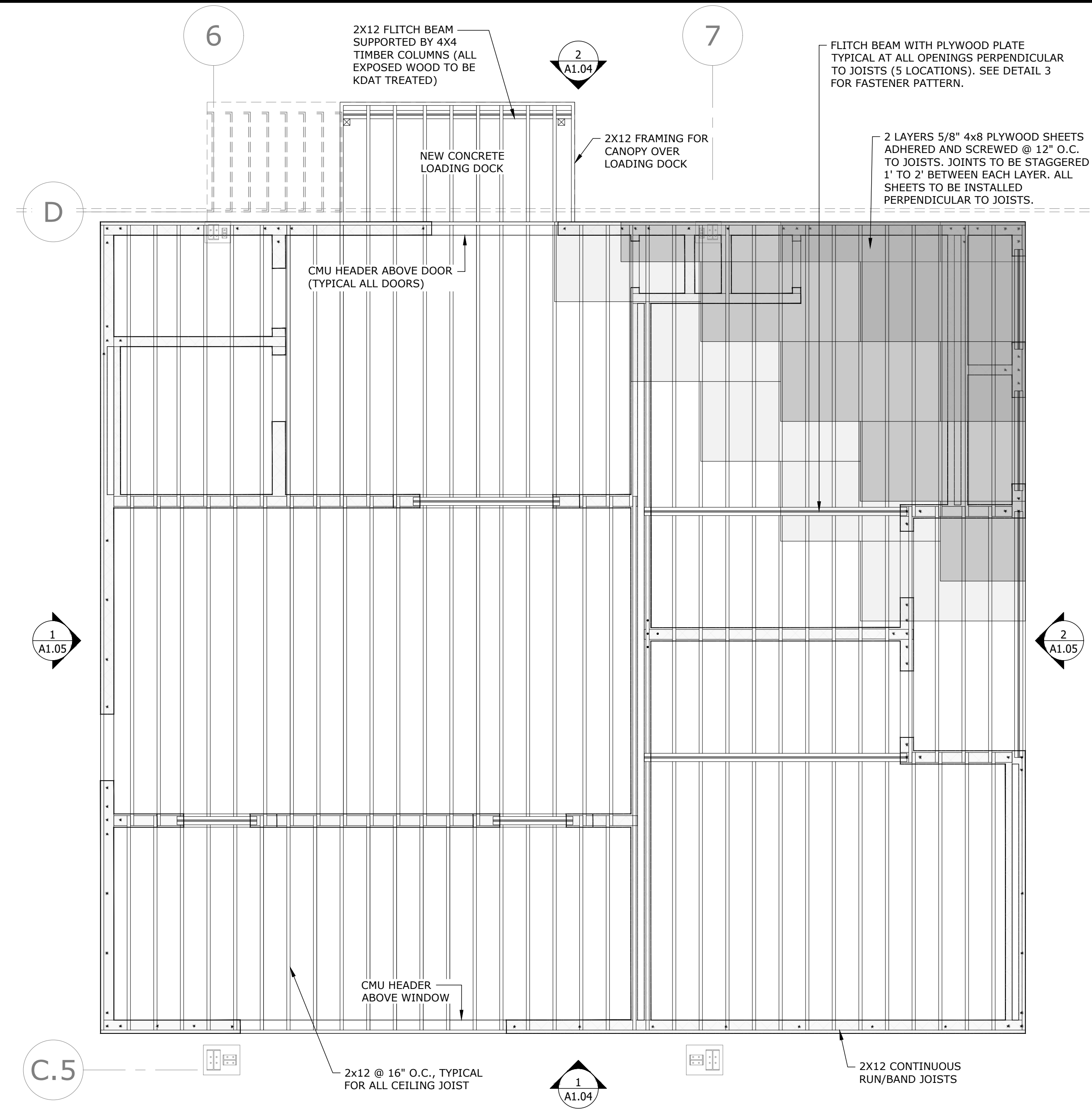
FOUNDATION DETAILS

WORKING NUMBER: **S1.02**
 DRAWING NUMBER: **11 of 45**

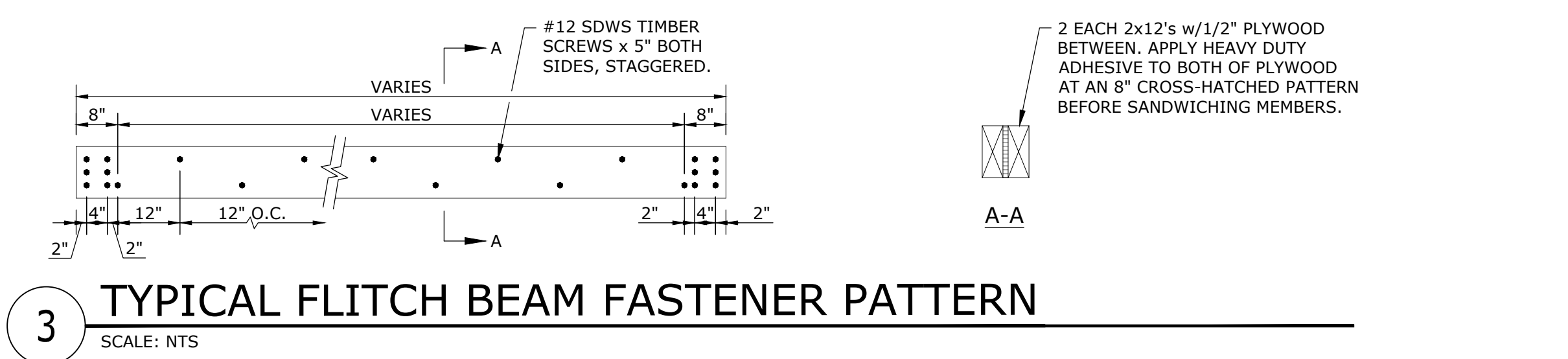
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1 CONCRETE MASONRY PLAN
SCALE: 1/4" = 1'-0"



2 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



3 TYPICAL FLITCH BEAM FASTENER PATTERN
SCALE: NTS

- SHEET NOTES:**
- FOR LOCATION AND SIZE OF CMU, SEE A1.01.
 - ADDITIONAL STRUCTURAL NOTES, SEE S1.01.

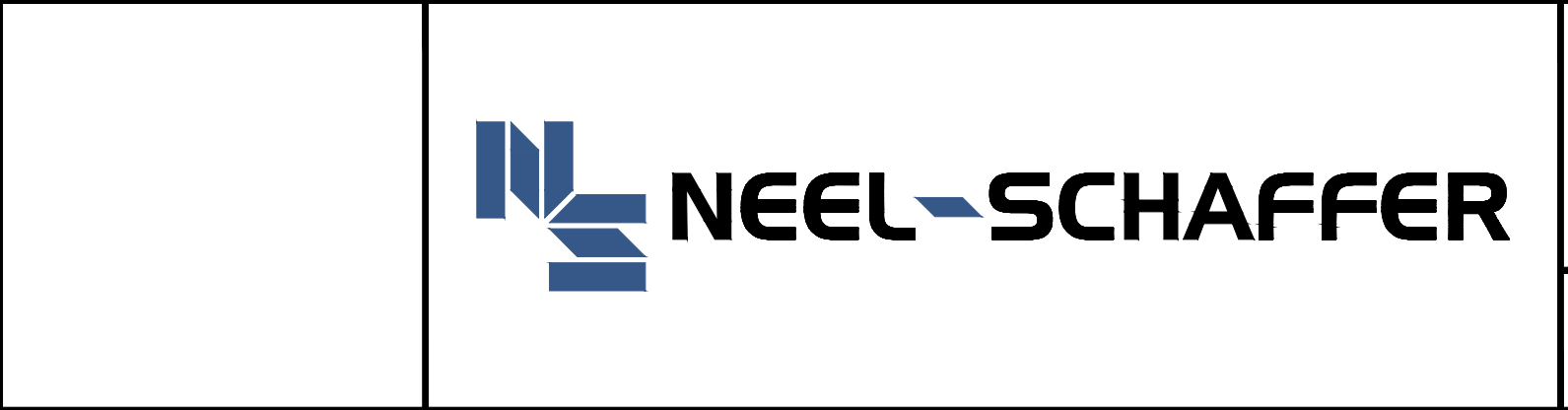
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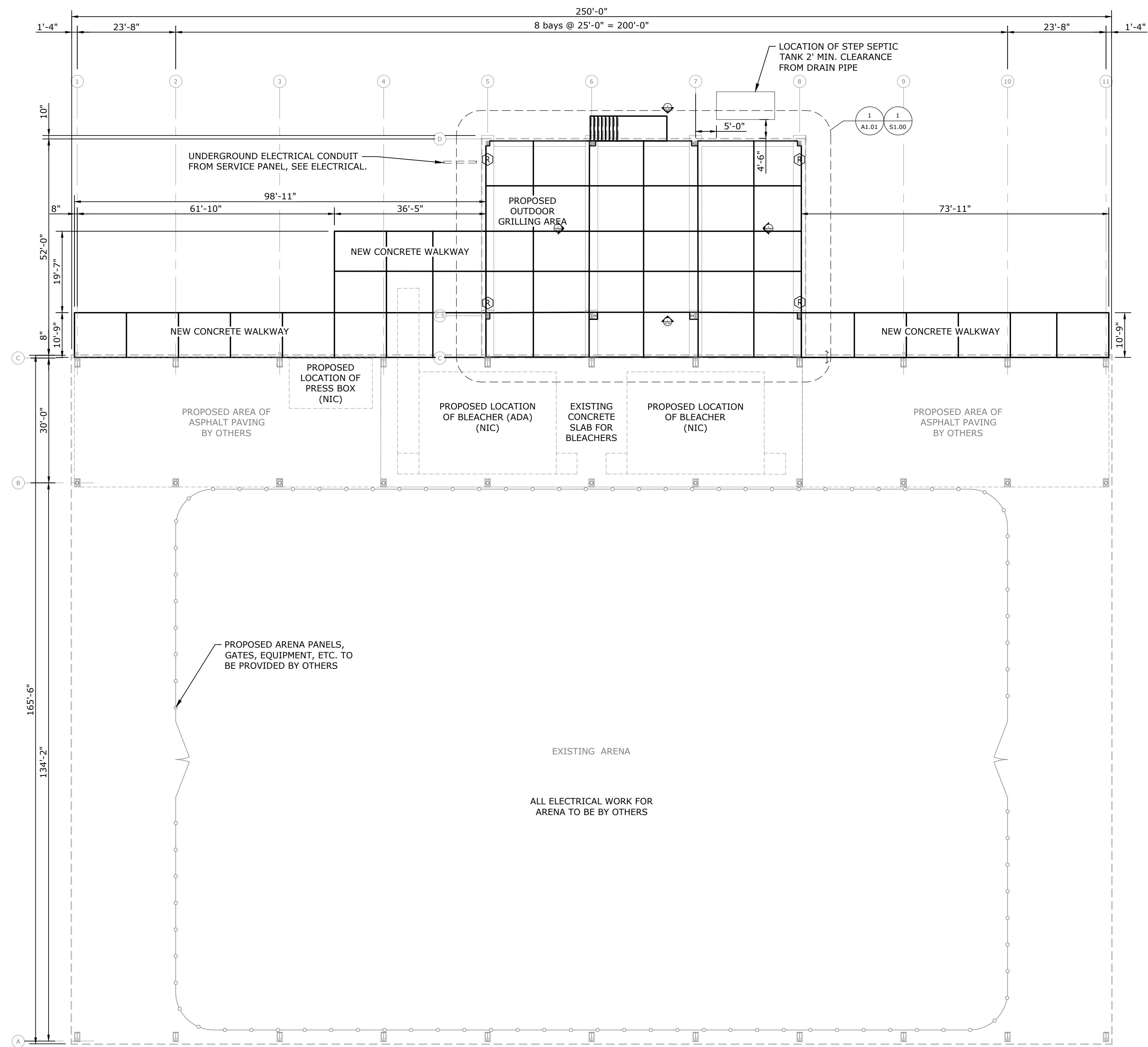
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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

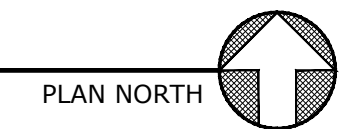
JACKSON COUNTY BOARD OF SUPERVISORS



PROPOSED ROOF FRAMING PLAN AND DETAILS	
WORKING NUMBER: S2.00	DRAWING NUMBER: 12 of 45



1 ARENA PLAN
SCALE: 1/16" = 1'-0"

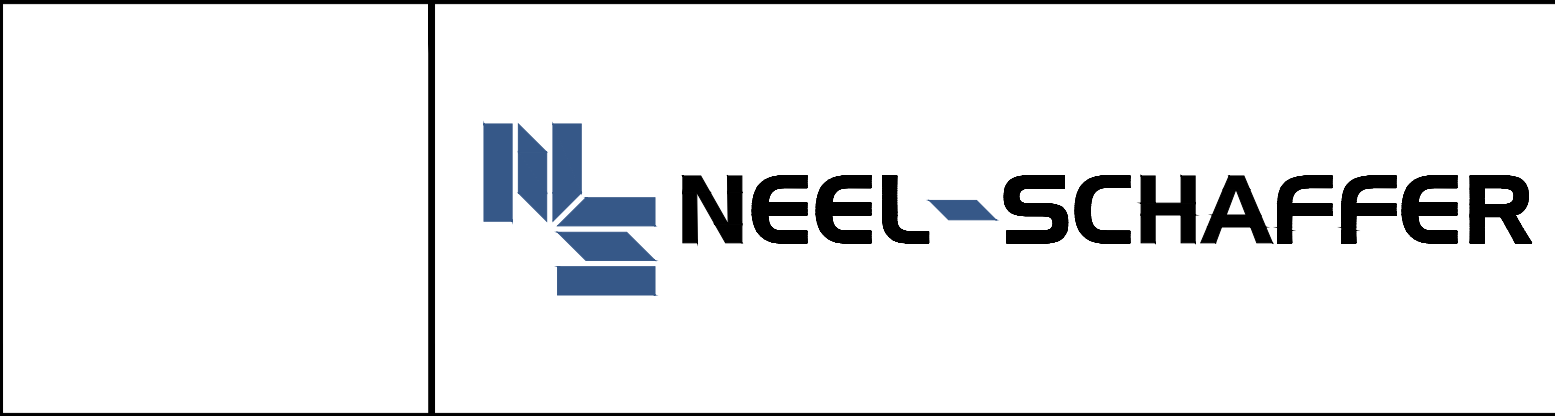


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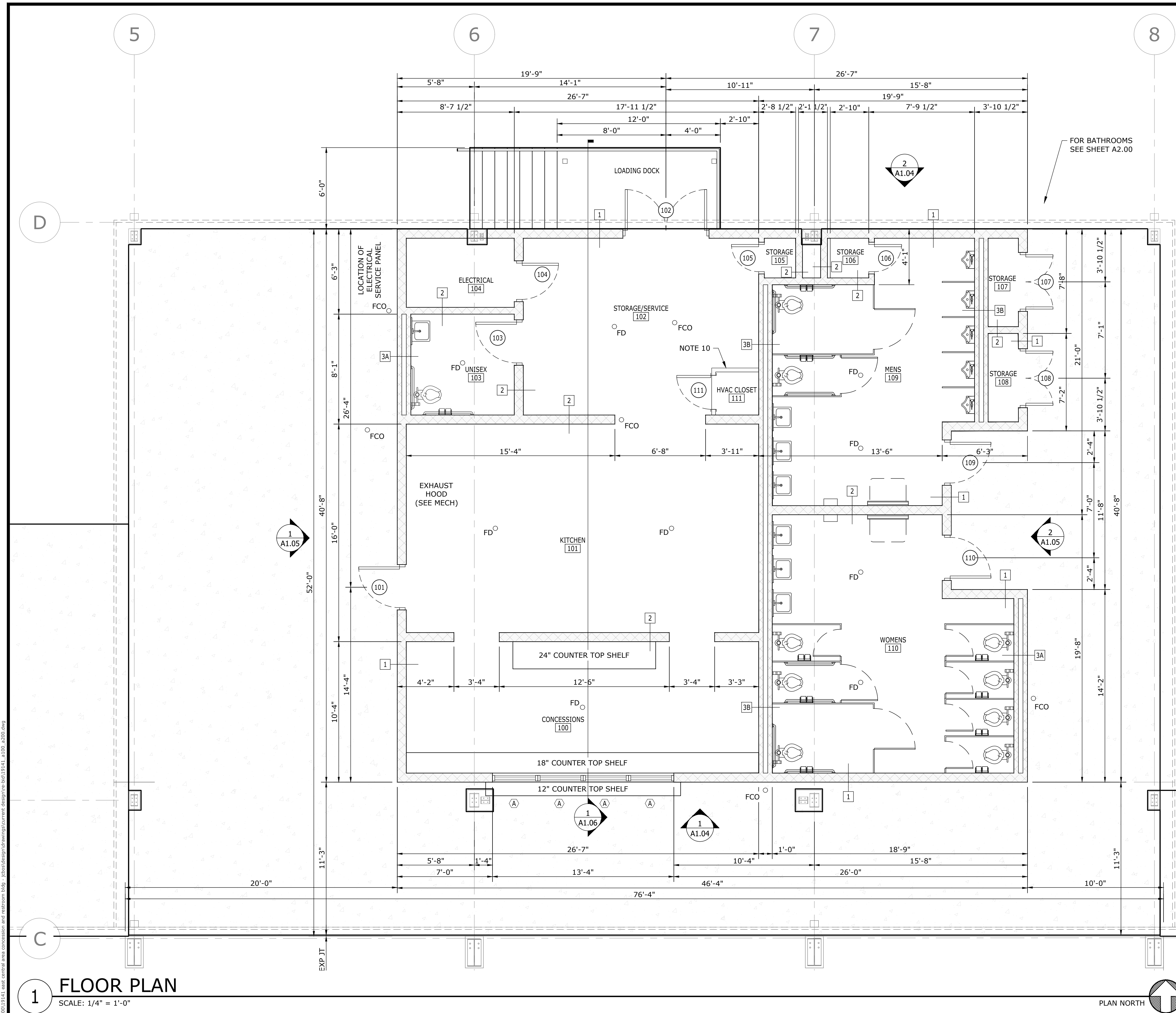
**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

JACKSON COUNTY BOARD OF SUPERVISORS



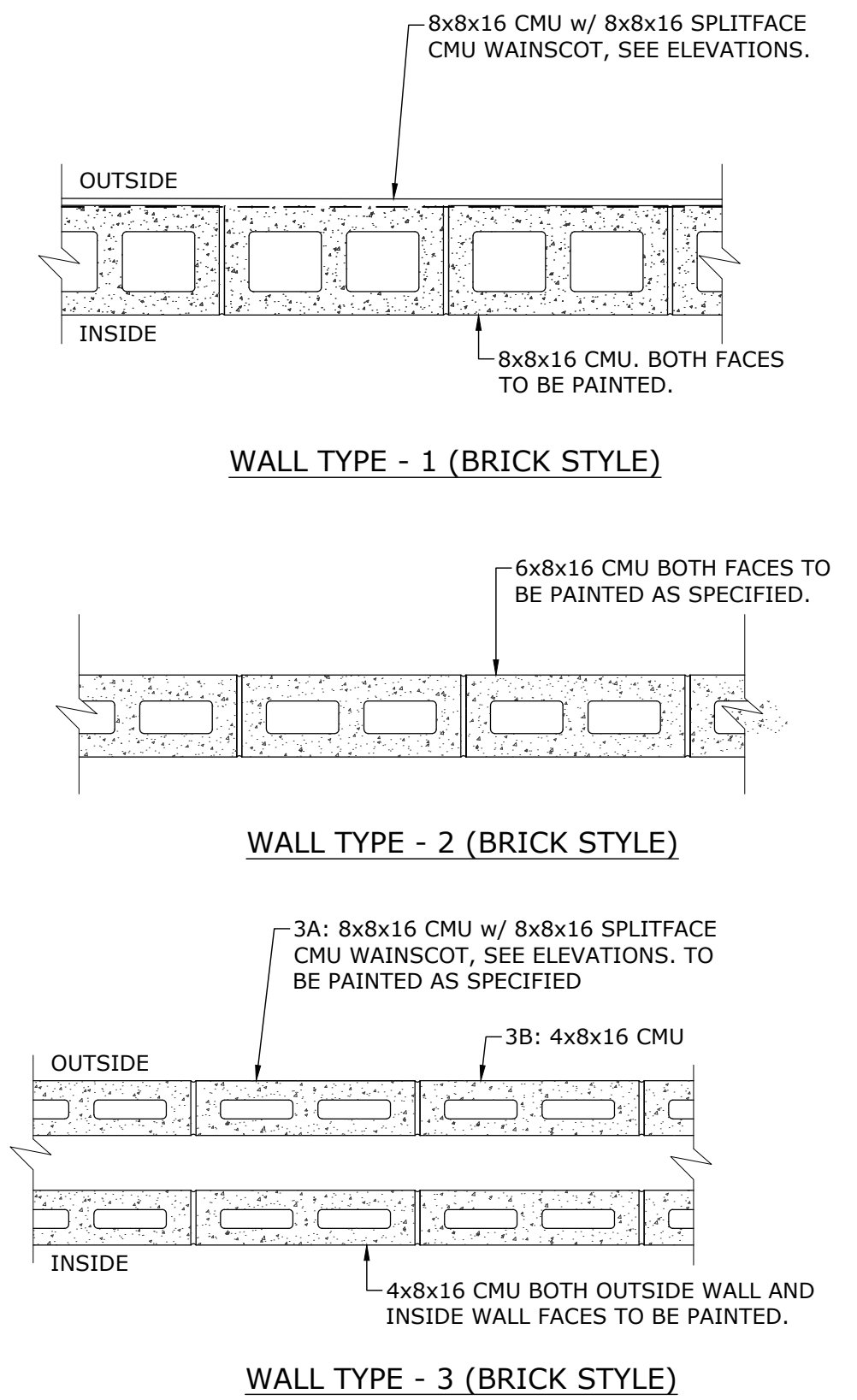
ARENA PLAN	
WORKING NUMBER: A1.00	DRAWING NUMBER: 13 of 45

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SHEET NOTES:

- FOR EQUIPMENT AND APPLIANCES GENERAL ARRANGEMENT, SEE SHEET A1.03.
- FOR WALL TYPES, SEE SHEET A1.01.
- FOR LOCATION OF BUILDING ON SITE, REFERENCE SHEET C1.00.
- INTERIOR OF ALL WALLS TO BE PAINTED COLOR 1, UNLESS NOTED OTHERWISE. THE EXTERIOR OF ALL WALLS SHALL BE PAINTED COLOR 2, SEE SPECIFICATION 09 91 00.
- FOR DOOR AND WINDOW SCHEDULES, SEE SHEET A1.02.
- FOR ENLARGED RESTROOMS AND DIMENSIONS NOT SHOWN, SEE SHEET A2.00.
- FOR BUILDING SECTION, SEE SHEET A1.06.
- FOR ELEVATIONS, SEE SHEETS A1.04 AND A1.05.
- FOR FINISH FLOOR ELEVATION, SEE CIVIL & STRUCTURAL.
- HVAC CLOSET TO BE FRAMED w/4" STUDS AND OUTSIDE FACE FINISHED WITH FRP OVER 1/2" PLYWOOD.



ROOM FINISH SCHEDULE							
RM#	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CLG.HT	NOTES
		SEALED CONCRETE	NONE	PAINTED MASONRY UNFINISHED MASONRY FRP PANEL WOOD STUD	PAINTED PLYWOOD UNFINISHED PLYWOOD FRP PANEL		
100	CONCESSIONS					9'-0"	-
101	KITCHEN					9'-0"	-
102	STORAGE/SERVICE					9'-0"	-
103	UNISEX RESTROOM					9'-0"	-
104	ELECTRICAL					8'-0"	-
105	STORAGE					9'-0"	-
106	STORAGE					9'-0"	-
107	STORAGE					9'-0"	-
108	STORAGE					9'-0"	-
109	MENS RESTROOM					9'-0"	-
110	WOMENS RESTROOM					9'-0"	-
111	HVAC CLOSET					9'-0"	-

NOTE: FOR CEILING TYPES, SEE SHEET A1.03

FINISH SCHEDULE LEGEND	
○	MATERIAL DESIGNATION
●	MATERIAL DESIGNATION NOTE
✱	MAT'L DESIGNATION (WALL LOCATION)
✱	MAT'L DESIGNATION (WALL LOCATION)

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

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CHKD:				GJD	DATE:	06/2025
QA/QC:					DATE:	/

**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

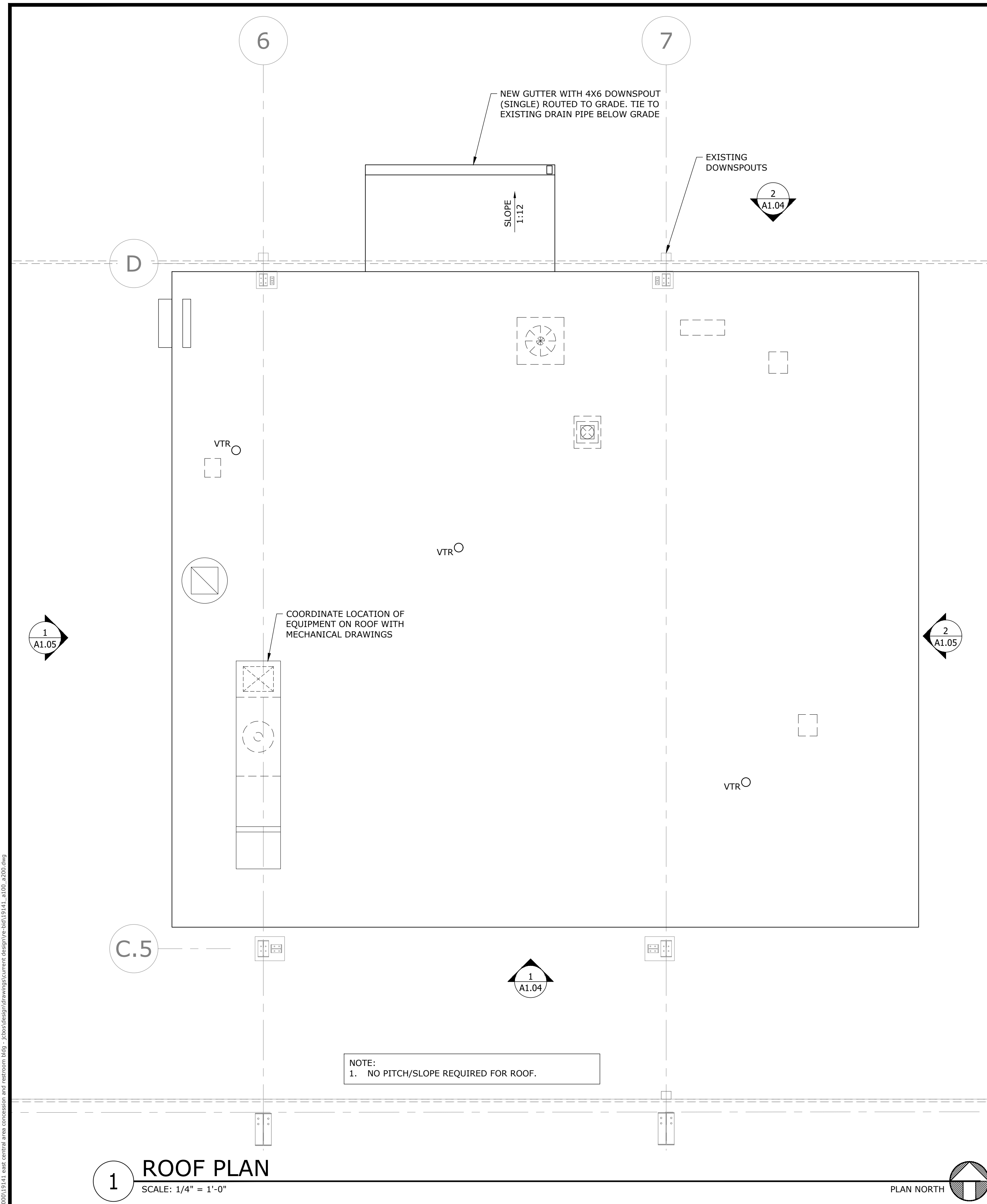
JACKSON COUNTY BOARD OF SUPERVISORS



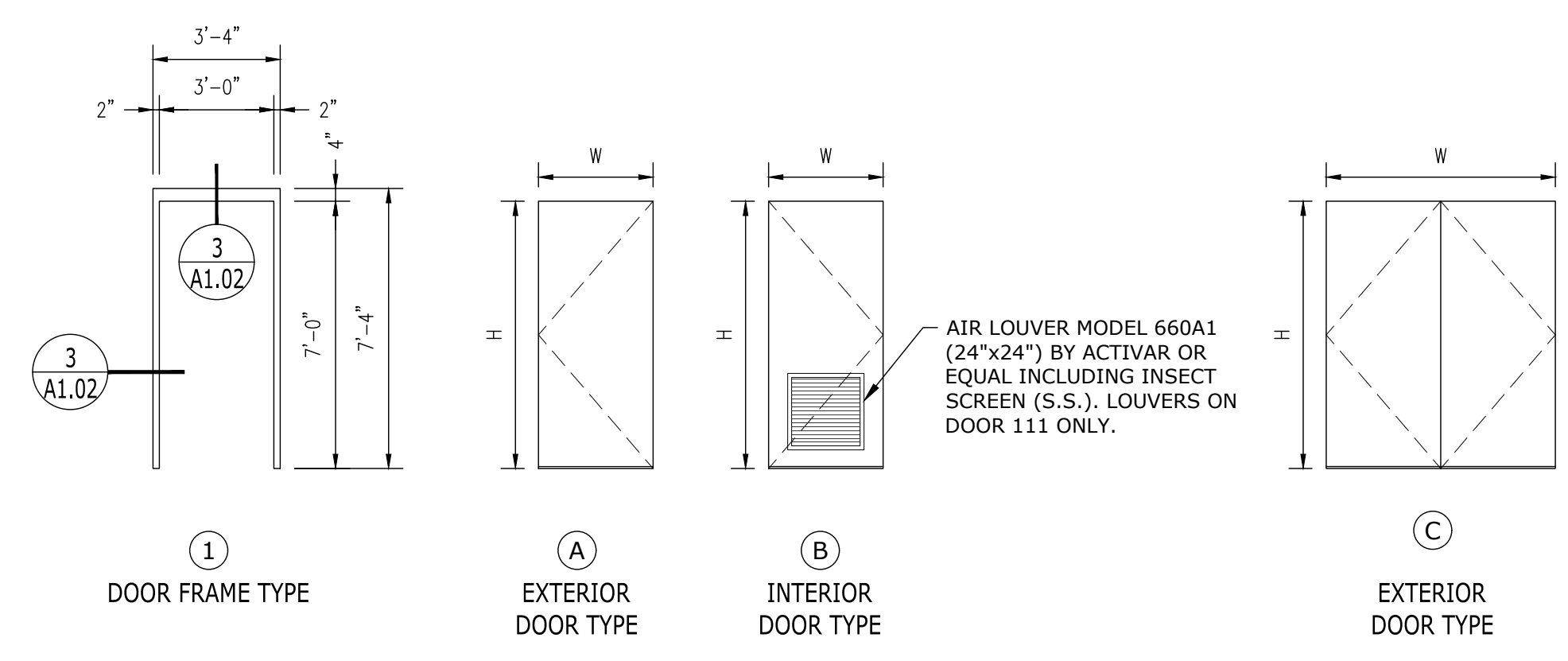
**PROPOSED FLOOR PLAN
AND SCHEDULE**

WORKING NUMBER: **A1.01**

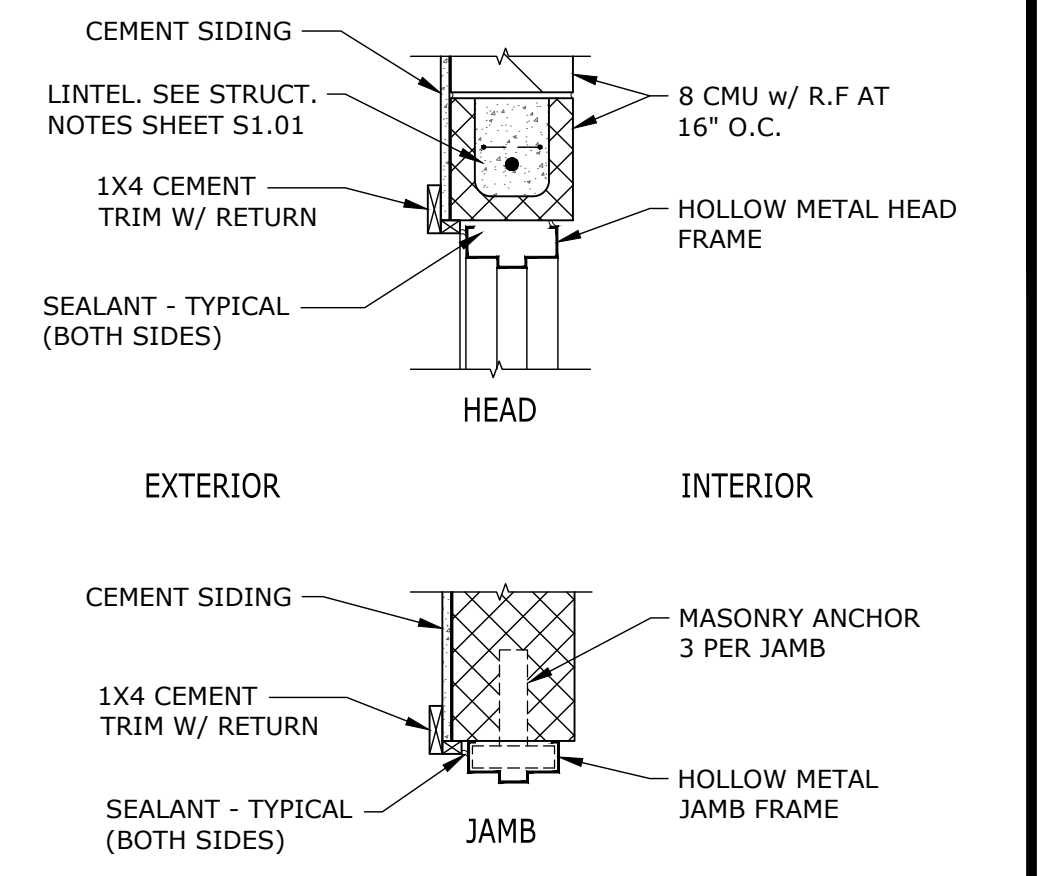
DRAWING NUMBER: **14 of 45**



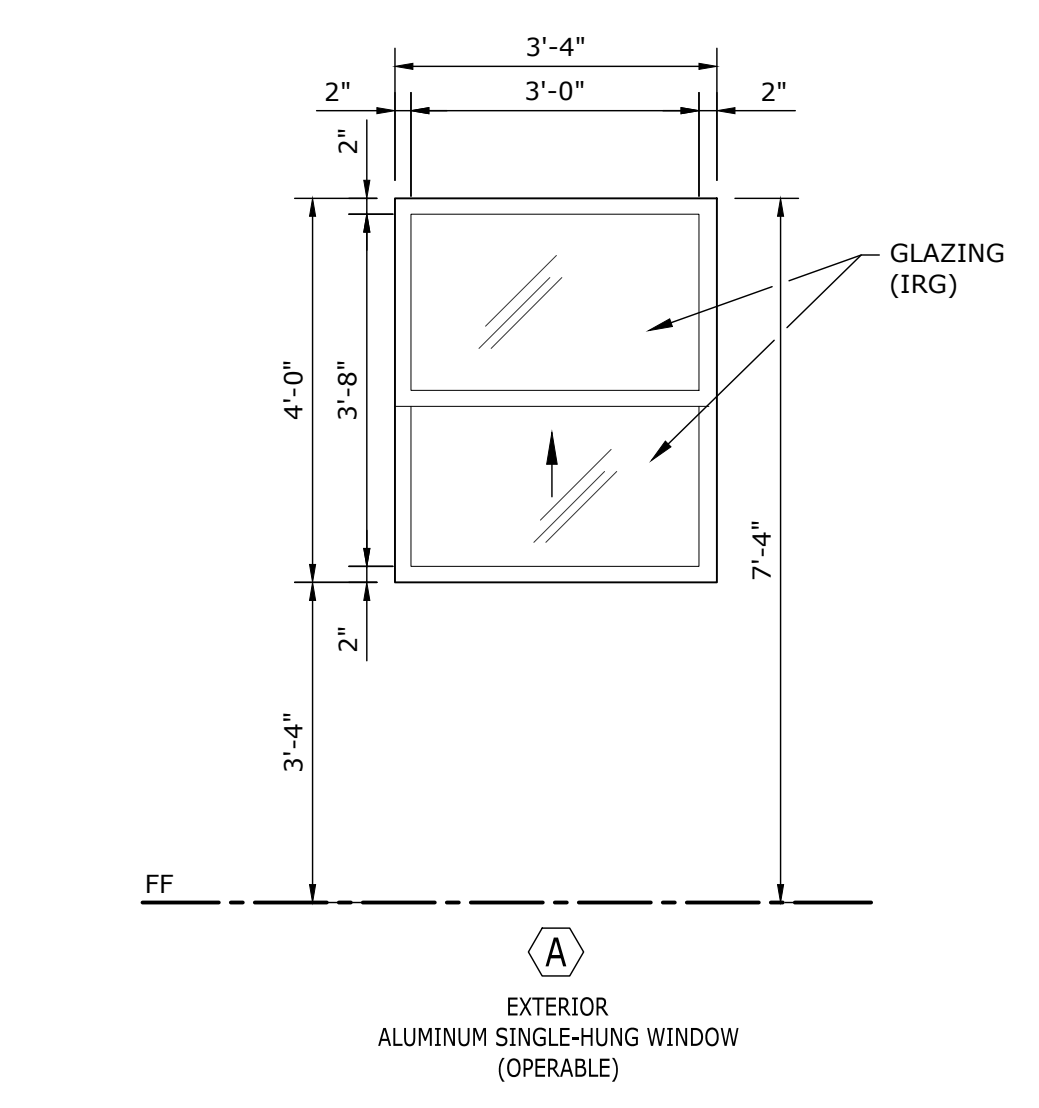
1 ROOF PLAN
SCALE: 1/4" = 1'-0"



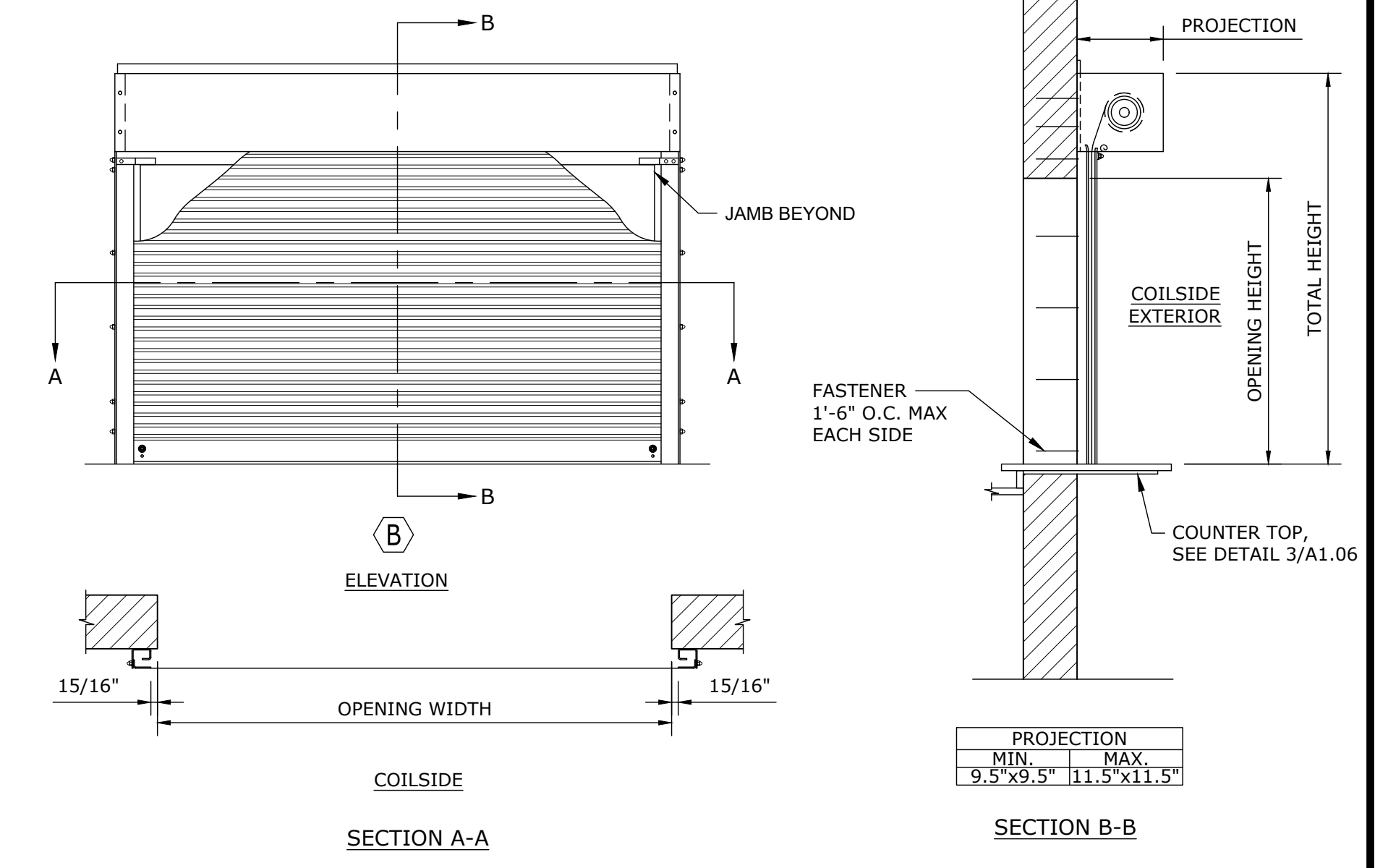
2 DOOR FRAME & TYPE
SCALE: 1/4" = 1'-0"



3 HEAD & JAMB DETAIL
SCALE: 1/4" = 1'-0"



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



5 COILING COUNTER DOOR DETAILS
SCALE: NTS
SEE SECTION 08 33 13.

DOOR & FRAME SCHEDULE										
DOOR NUMBER	DOORS						FRAME DETAILS			HARDWARE SET
	WIDTH	HEIGHT	THICK.	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	
101	3'-0"	7'-0"	1-3/4"	A	MTL	PAINT	1	MTL	PAINT	1
102	6'-0"	7'-0"	1-3/4"	C	MTL	PAINT	1	MTL	PAINT	2
103	3'-0"	7'-0"	1-3/4"	A	MTL	PAINT	1	MTL	PAINT	3
104	3'-0"	7'-0"	1-3/4"	A	MTL	PAINT	1	MTL	PAINT	3
105	2'-0"	7'-0"	1-3/4"	A	MTL	PAINT	1	MTL	PAINT	3
106	2'-0"	7'-0"	1-3/4"	A	MTL	PAINT	1	MTL	PAINT	3
107	5'-0"	7'-0"	1-3/4"	C	MTL	PAINT	1	MTL	PAINT	1
108	5'-0"	7'-0"	1-3/4"	C	MTL	PAINT	1	MTL	PAINT	1
109	3'-0"	7'-0"	1-3/4"	A	MTL	PAINT	1	MTL	PAINT	1
110	3'-0"	7'-0"	1-3/4"	A	MTL	PAINT	1	MTL	PAINT	1
111	2'-6"	6'-8"	1-3/4"	B	WD	PAINT	PRE-HUNG	WD	PAINT	4

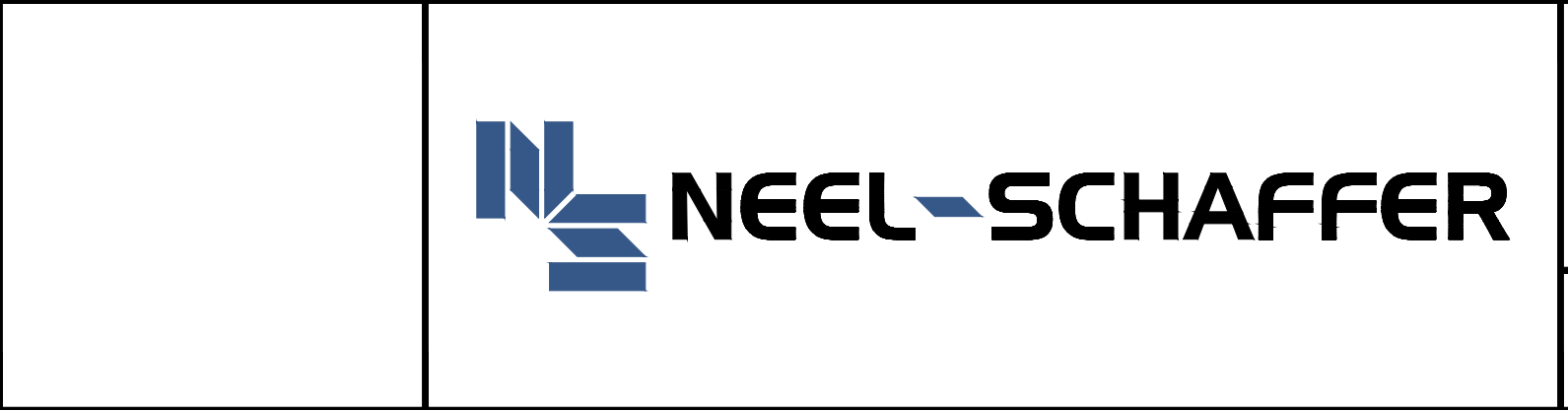
WINDOW SCHEDULE						
WINDOW MARK	WINDOWS				NOTES	
	SIZE		TYPE	FINISH		
	WIDTH	HEIGHT				
A	3'-0"	4'-0"	ALUM.	CLEAR	COORDINATE SIZE w/ GROUPING OF TYPE A WINDOWS	A
B	12'-0"	4'-0"				

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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

JACKSON COUNTY BOARD OF SUPERVISORS

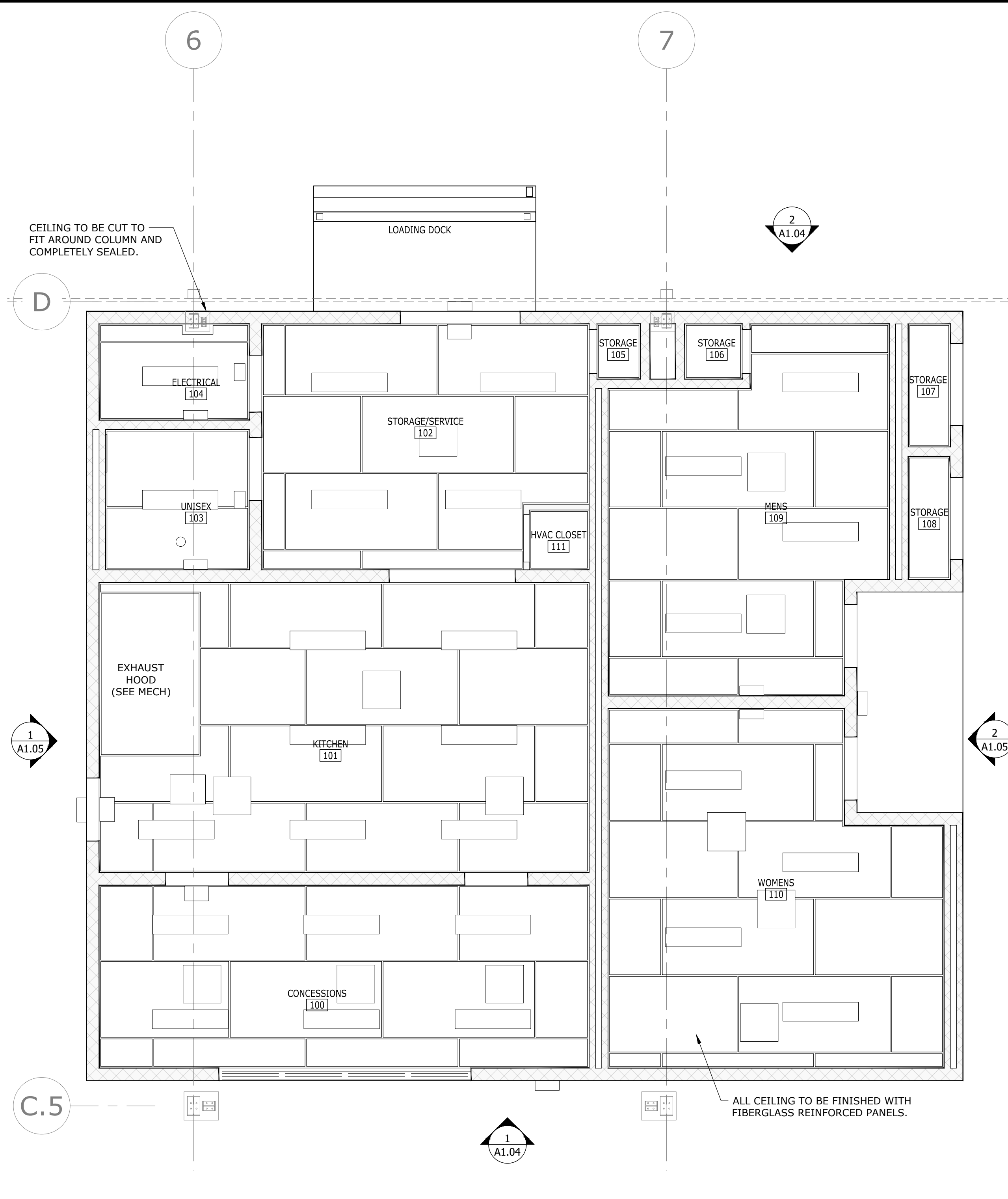
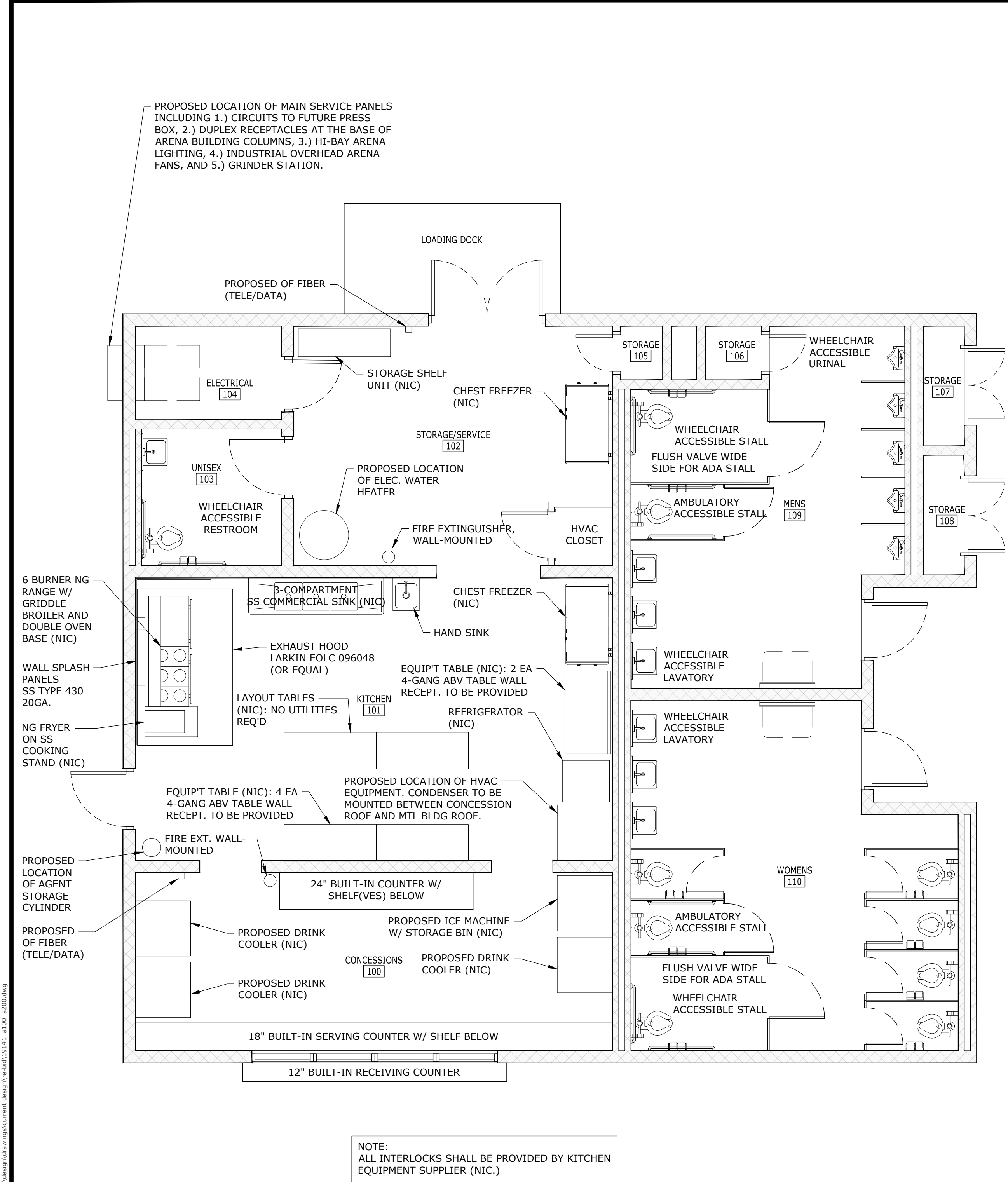


**PROPOSED ROOF PLAN,
DETAILS, AND SCHEDULES**

WORKING NUMBER: **A1.02**

DRAWING NUMBER: **15 of 45**

LEGEND:
NIC NOT IN CONTRACT



1 GENERAL EQUIPMENT ARRANGEMENT PLAN
SCALE: 1/4" = 1'-0"
PLAN NORTH

2 REFLECTIVE CEILING PLAN
SCALE: 1/4" = 1'-0"
PLAN NORTH

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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

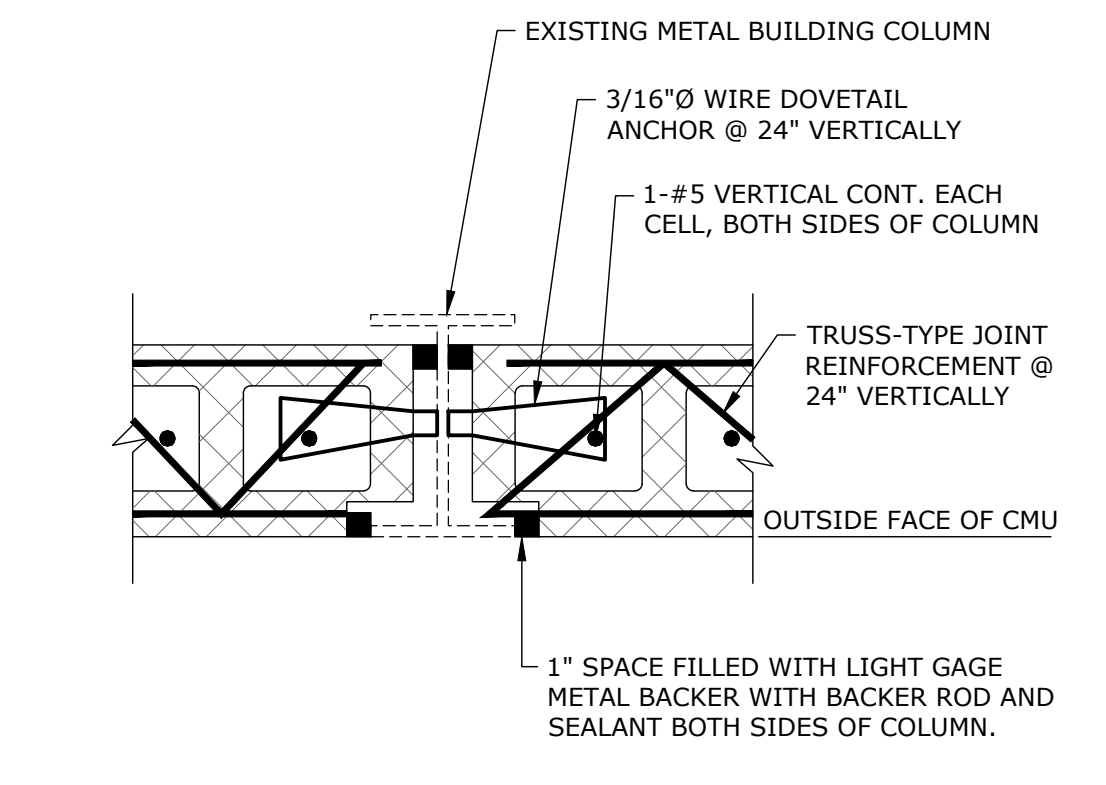
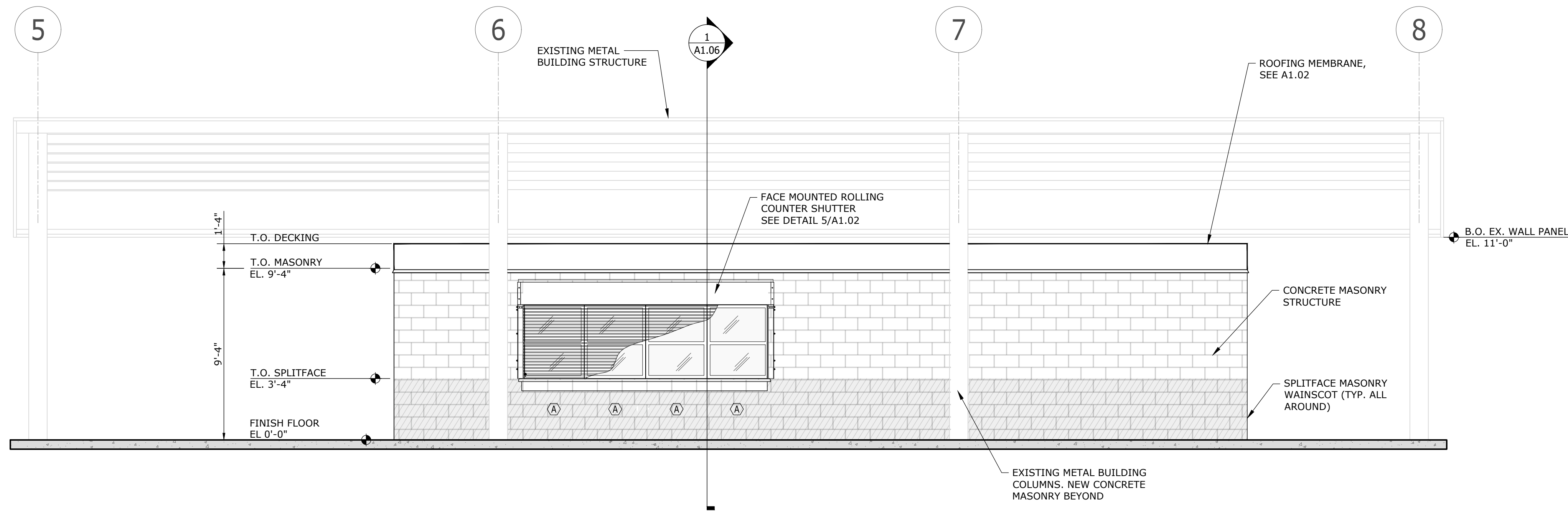
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**PROPOSED RCP
PLAN**

WORKING NUMBER: A1.03
DRAWING NUMBER: 16 of 45

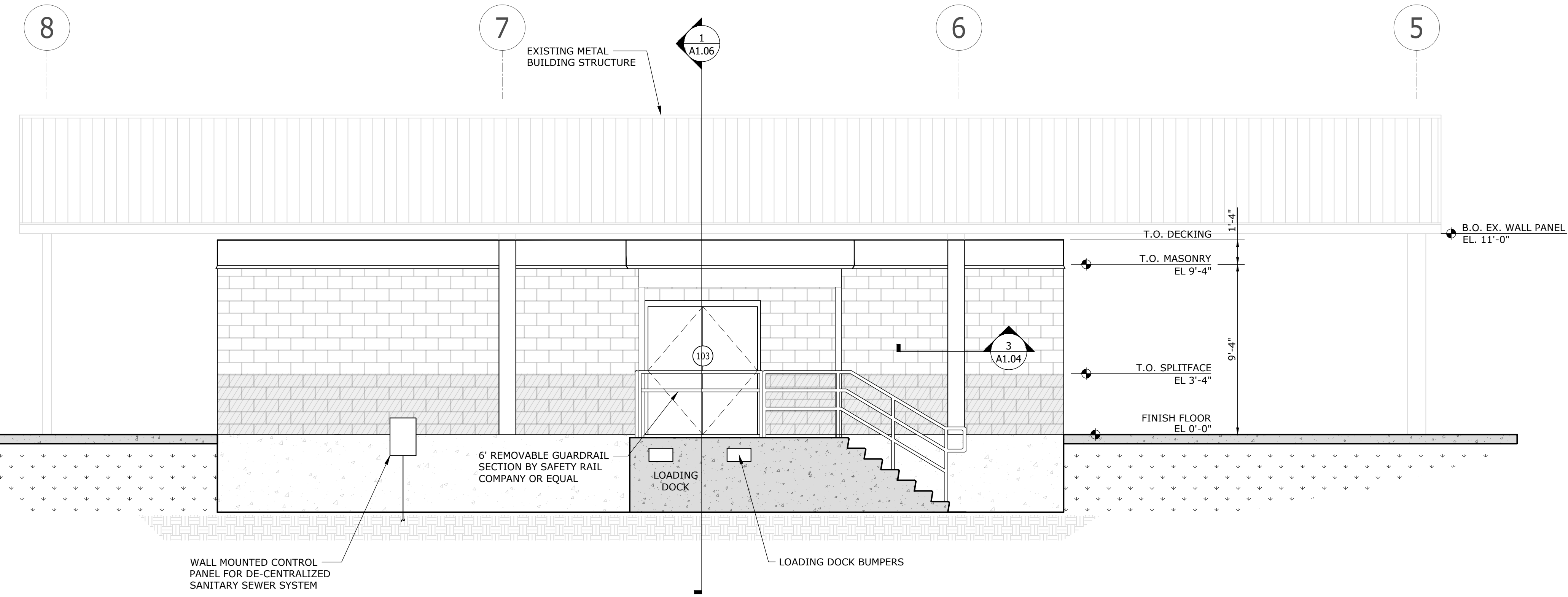
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**TYP. CMU TO COLUMN
CONDITION ALONG
COLUMN LINE "D"**

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

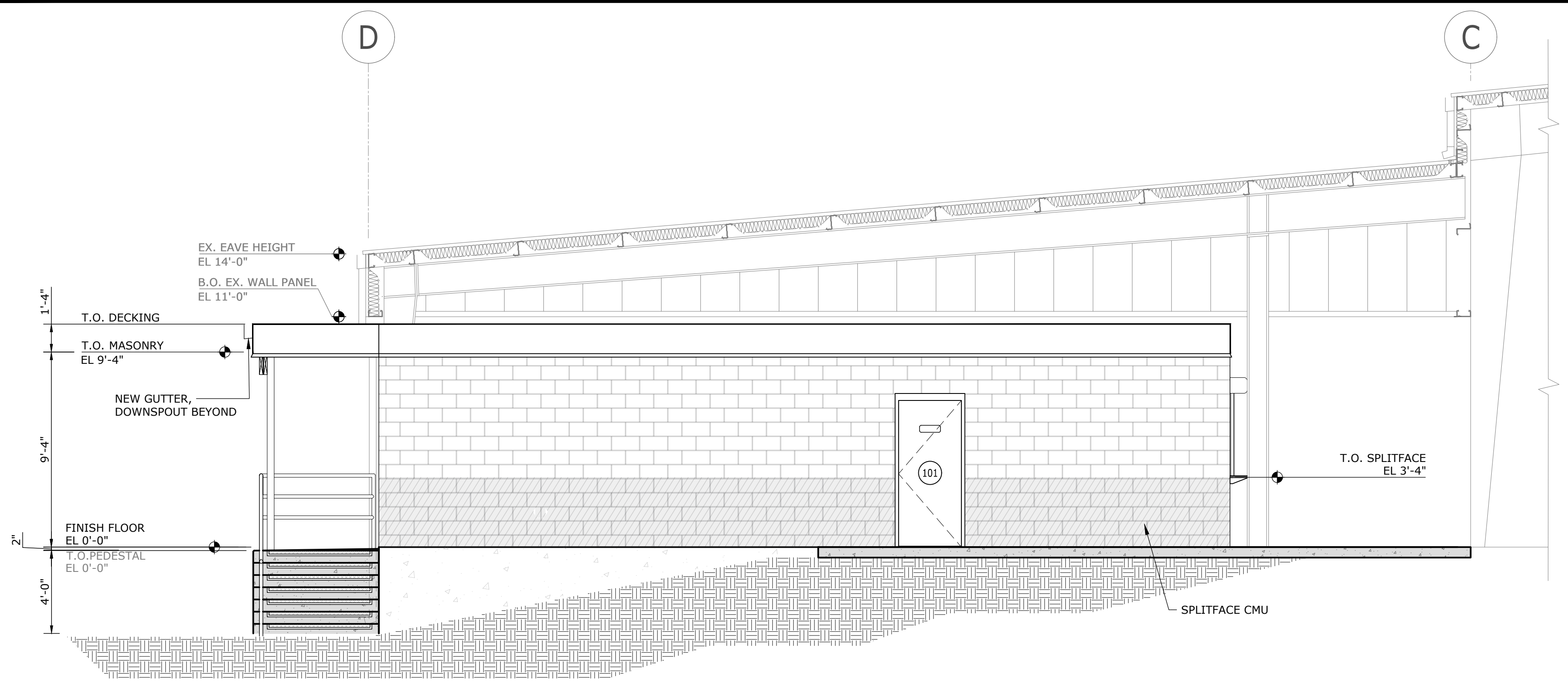
1 EXTERIOR ELEVATION - SOUTH
SCALE: 1/4" = 1'-0"



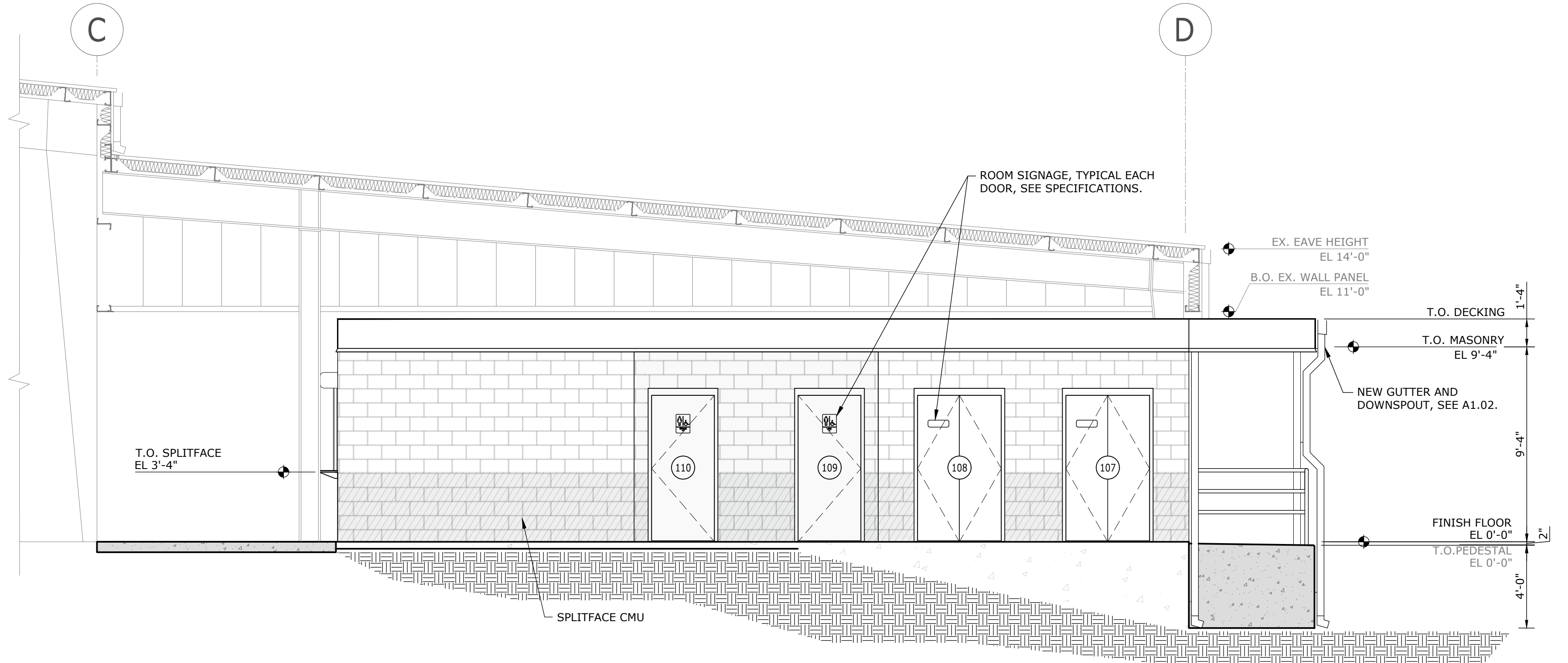
2 EXTERIOR ELEVATION - NORTH
SCALE: 1/4" = 1'-0"

5/18/2025 4:43 PM V:\projects\01150000\01150000\0115141 east central area concession and restrooms\15141 east central area concession and restrooms\15141_1000_2025.dwg

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WORKING NUMBER: A1.04		DRAWING NUMBER: 17 of 45																		



1 EXTERIOR ELEVATION - WEST
SCALE: 1/4" = 1'-0"



2 EXTERIOR ELEVATION - EAST
SCALE: 1/4" = 1'-0"



SIGN TYPE ①



SIGN TYPE ②



SIGN TYPE ③

SIGN TYPE LEGEND

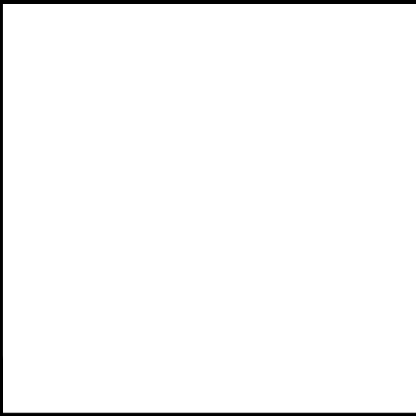
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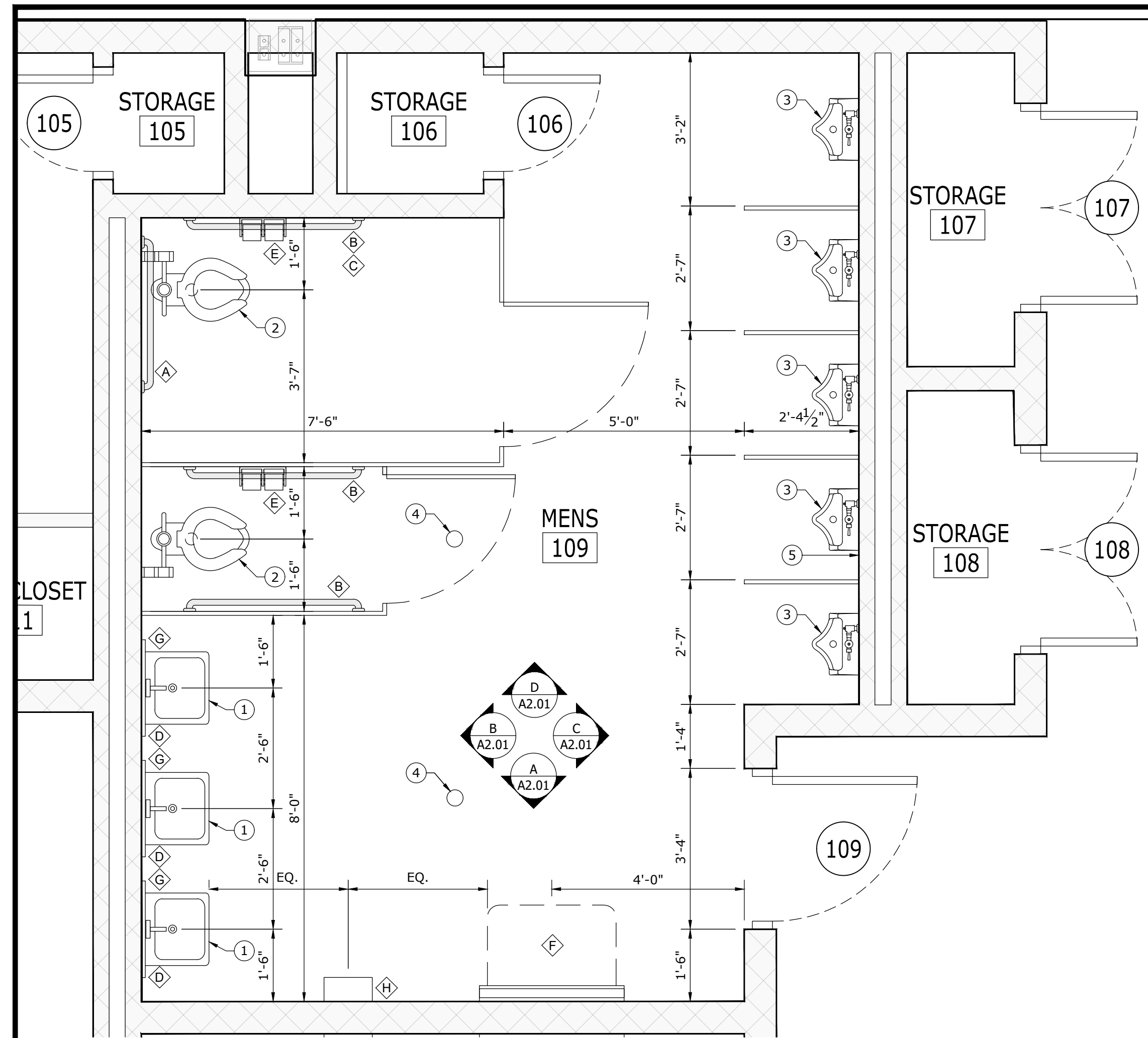
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**EAST CENTRAL MULTI-PURPOSE ARENA
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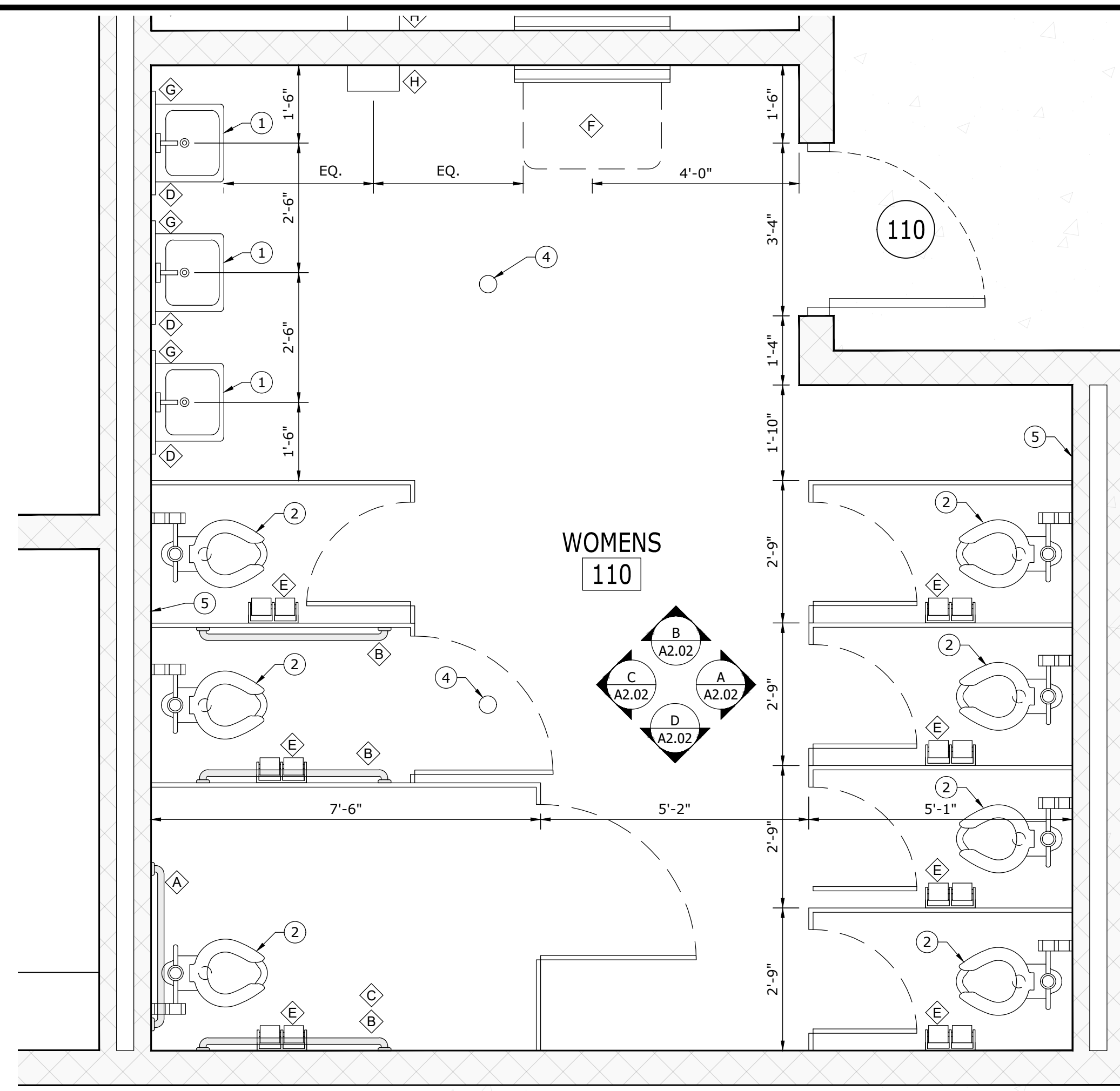
JACKSON COUNTY BOARD OF SUPERVISORS



EXTERIOR ELEVATIONS	
WORKING NUMBER: A1.05	DRAWING NUMBER: 18 of 45



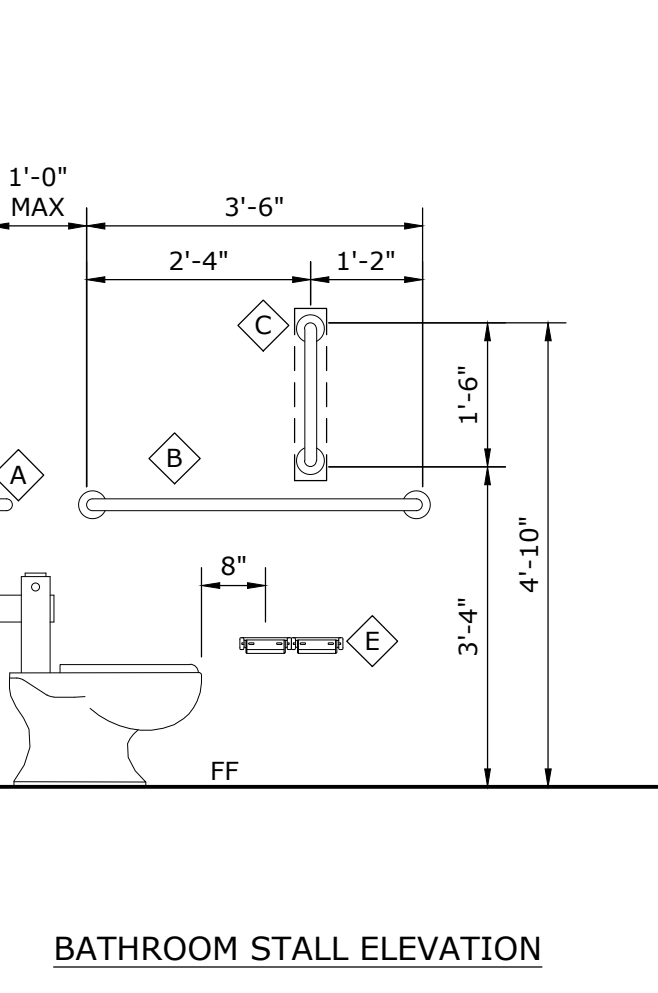
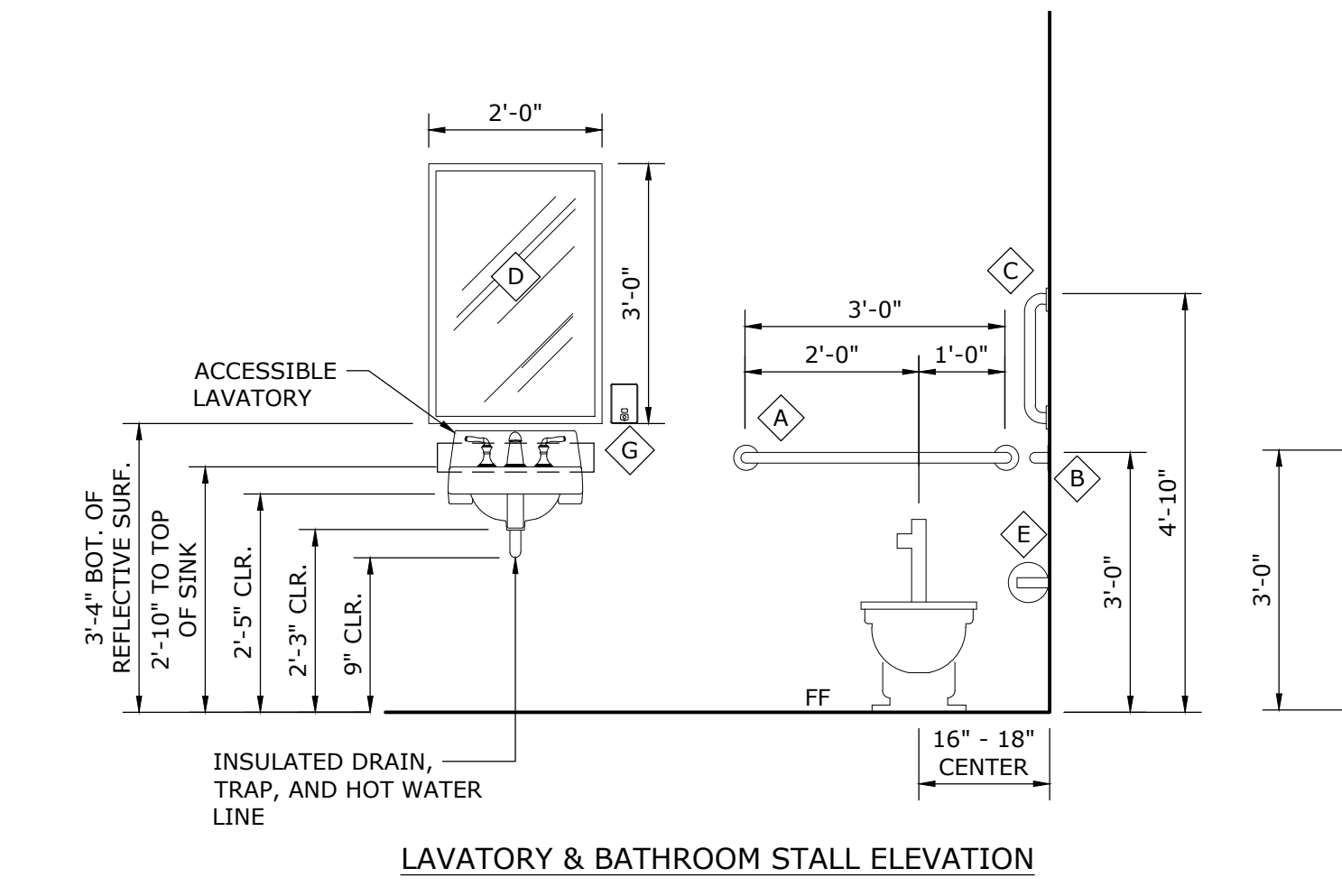
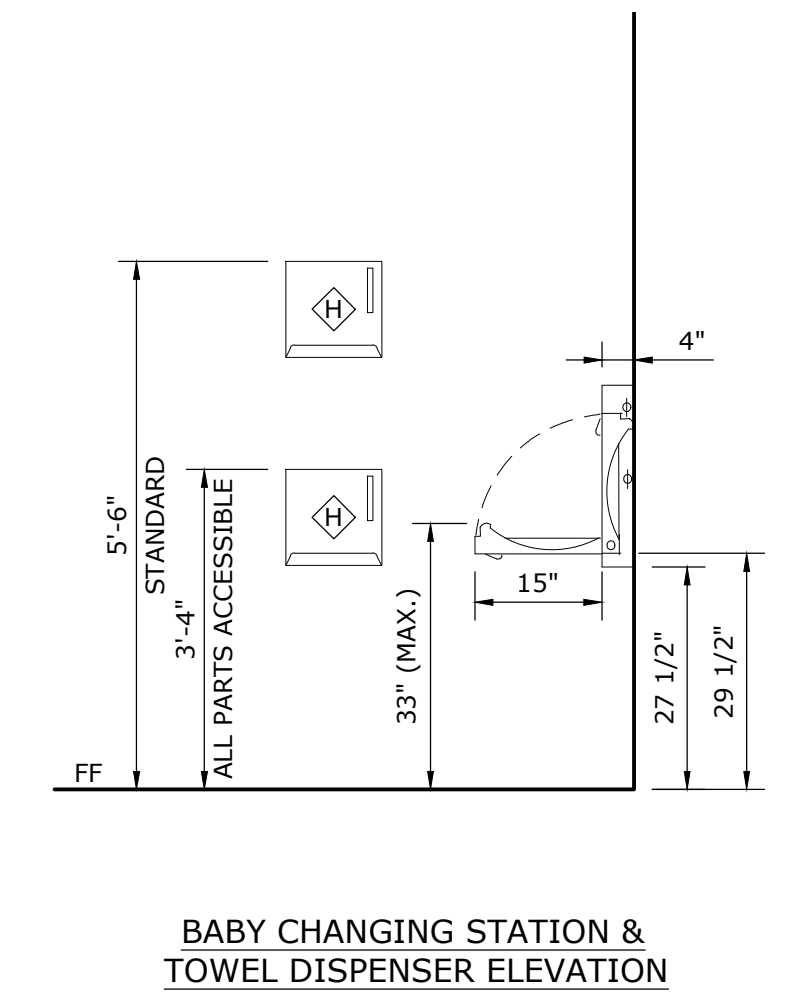
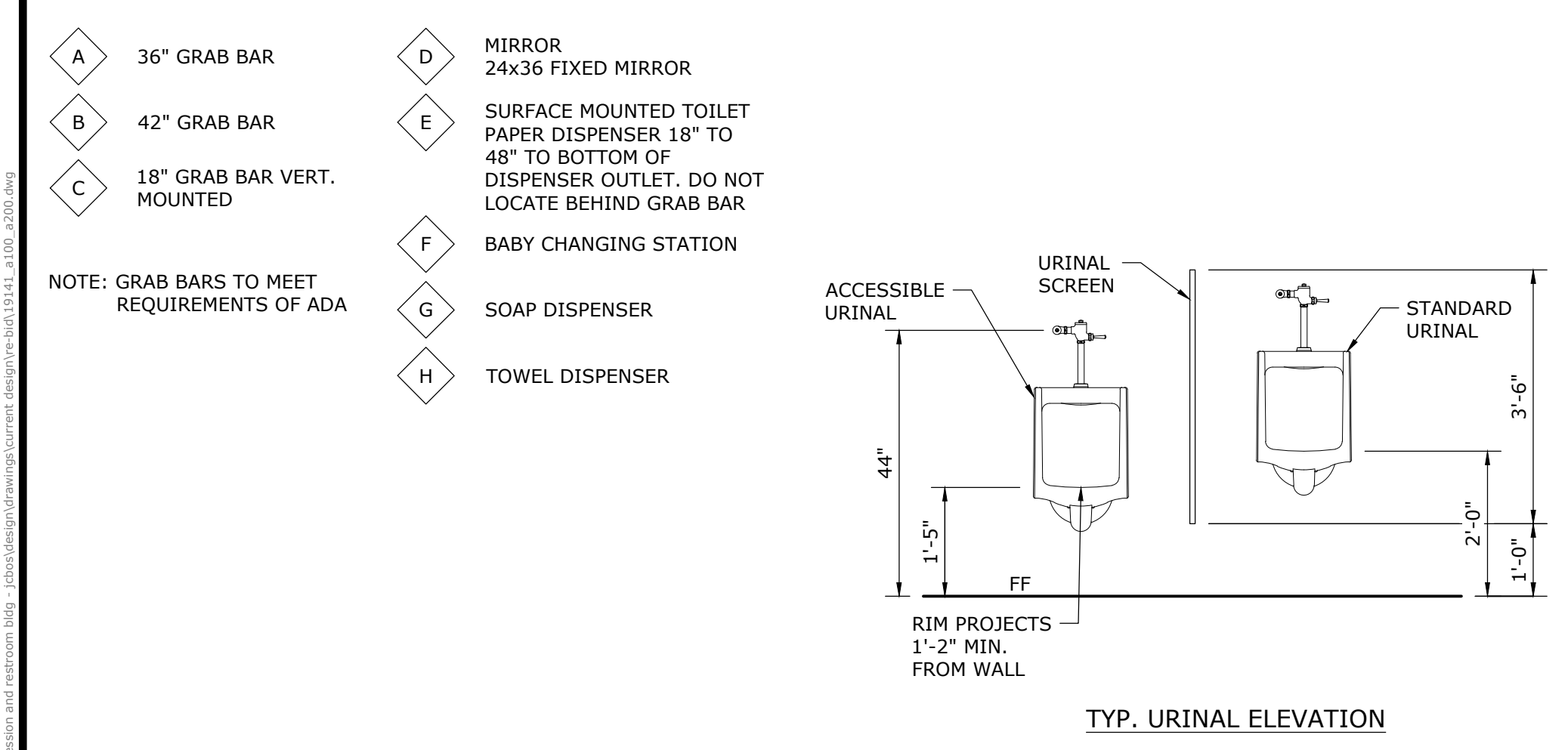
1 ENLARGED MENS RESTROOM
SCALE: 1/2" = 1'-0" PLAN NORTH



2 ENLARGED WOMENS RESTROOM
SCALE: 1/2" = 1'-0" PLAN NORTH

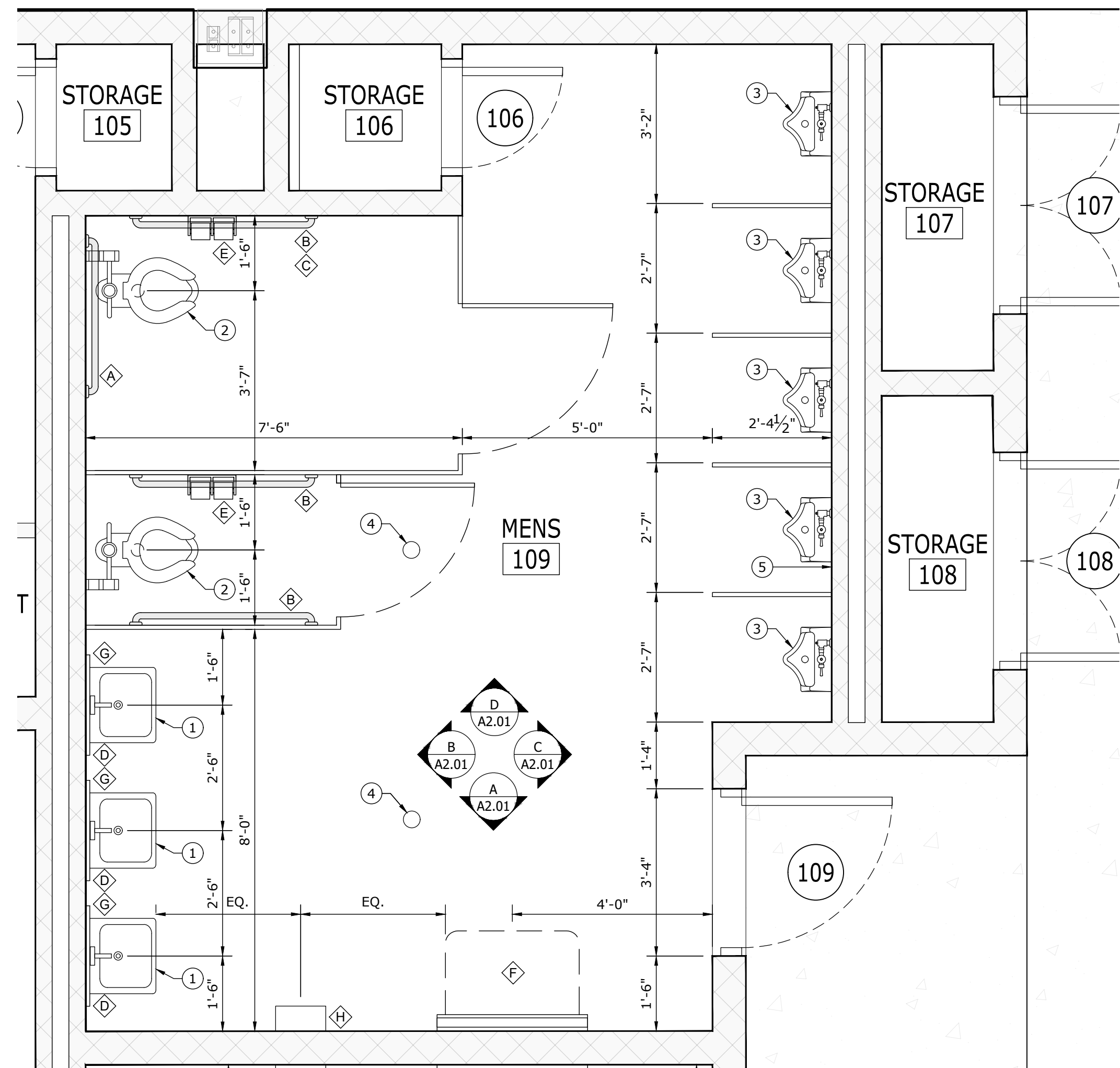
- SHEET NOTES:**
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 - FOR DOOR AND WINDOW SCHEDULES, SEE SHEET A1.02.
 - COORDINATE ALL FIXTURES WITH PLUMBING PLANS.

- KEY NOTES:**
- WALL MOUNTED LAVATORY
 - FLOOR MOUNTED WATER CLOSET
 - WALL MOUNTED URINAL
 - FLOOR DRAINS
 - PLUMBING WALL, SEE WALL TYPE 3



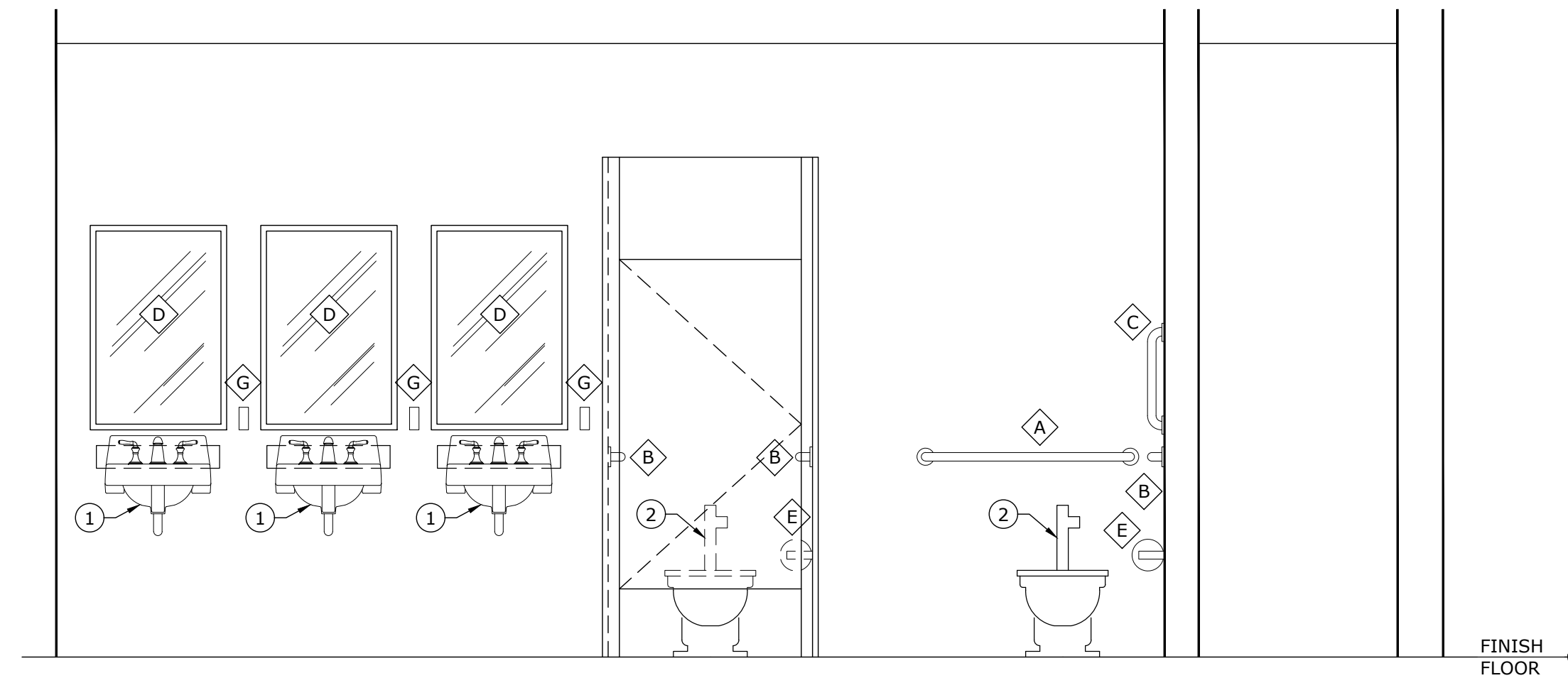
3 RESTROOM ACCESSORY LOCATION DETAILS
SCALE: NOT TO SCALE

<p>NOTICE TO DRAWING HOLDER</p> <p>NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>04/30/26</td> <td>NMB</td> <td>ISSUED FOR REVIEW</td> </tr> <tr> <td>B</td> <td>05/24/26</td> <td>NMB</td> <td>ISSUED FOR BID</td> </tr> </tbody> </table>		NO.	DATE	BY	DESCRIPTION	A	04/30/26	NMB	ISSUED FOR REVIEW	B	05/24/26	NMB	ISSUED FOR BID	<p>DRAWING INFORMATION</p> <p>N-S PROJECT NO.: 19141.000 FILENAME: 19141_A100_A200.dwg SCALE: AS NOTED SURVEYED BY: DSGN: GJD DATE: 02/2025 DRWN: GJD/NMB DATE: 02/2025 CHKD: GJD DATE: 06/2025 QA/QC: DATE: / /</p>		<p>EAST CENTRAL MULTI-PURPOSE ARENA CONCESSION AND RESTROOMS (RE-BID)</p> <p>JACKSON COUNTY BOARD OF SUPERVISORS</p>	<p>PRELIMINARY NOT FOR CONSTRUCTION</p>		<p>ENLARGED RESTROOM PLANS</p>	
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				<p>WORKING NUMBER: A2.00</p>	<p>DRAWING NUMBER: 20 of 45</p>																

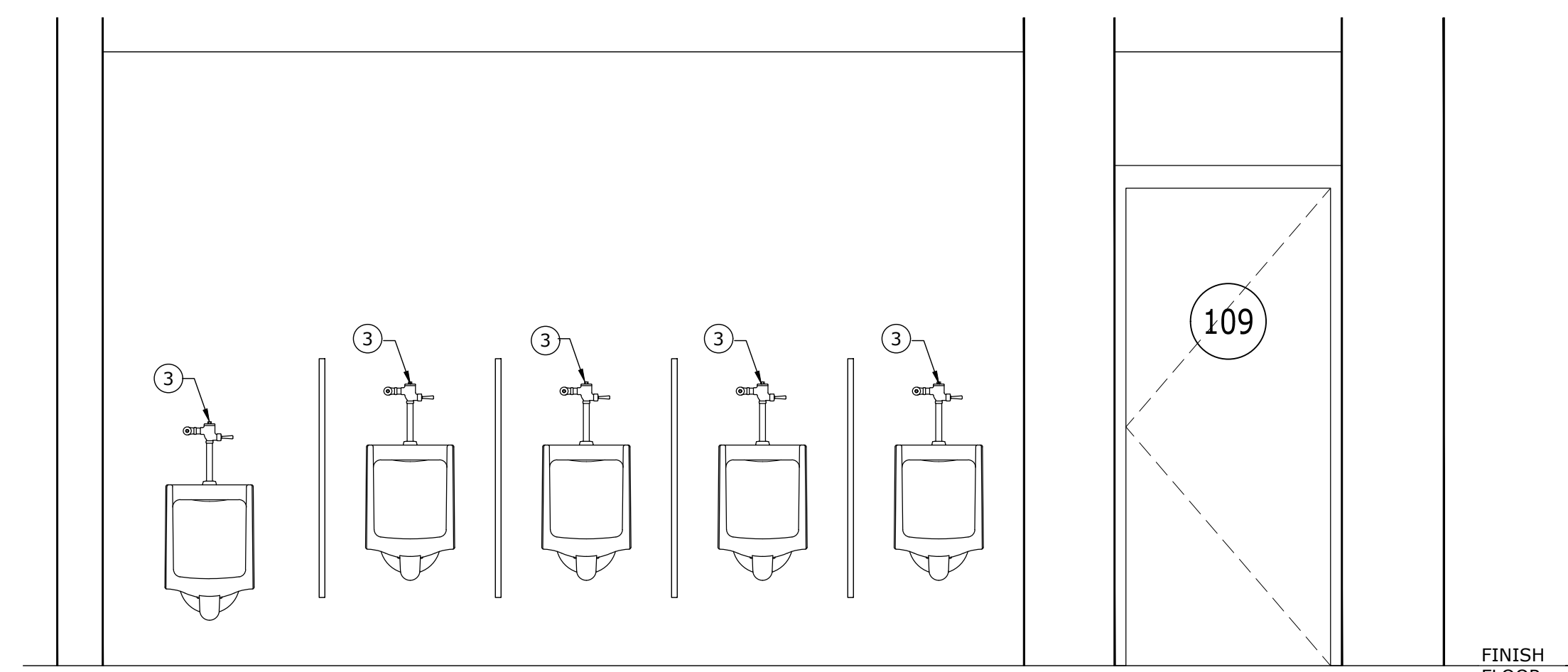


PROPOSED INTERIOR ELEVATIONS - MENS RESTROOM

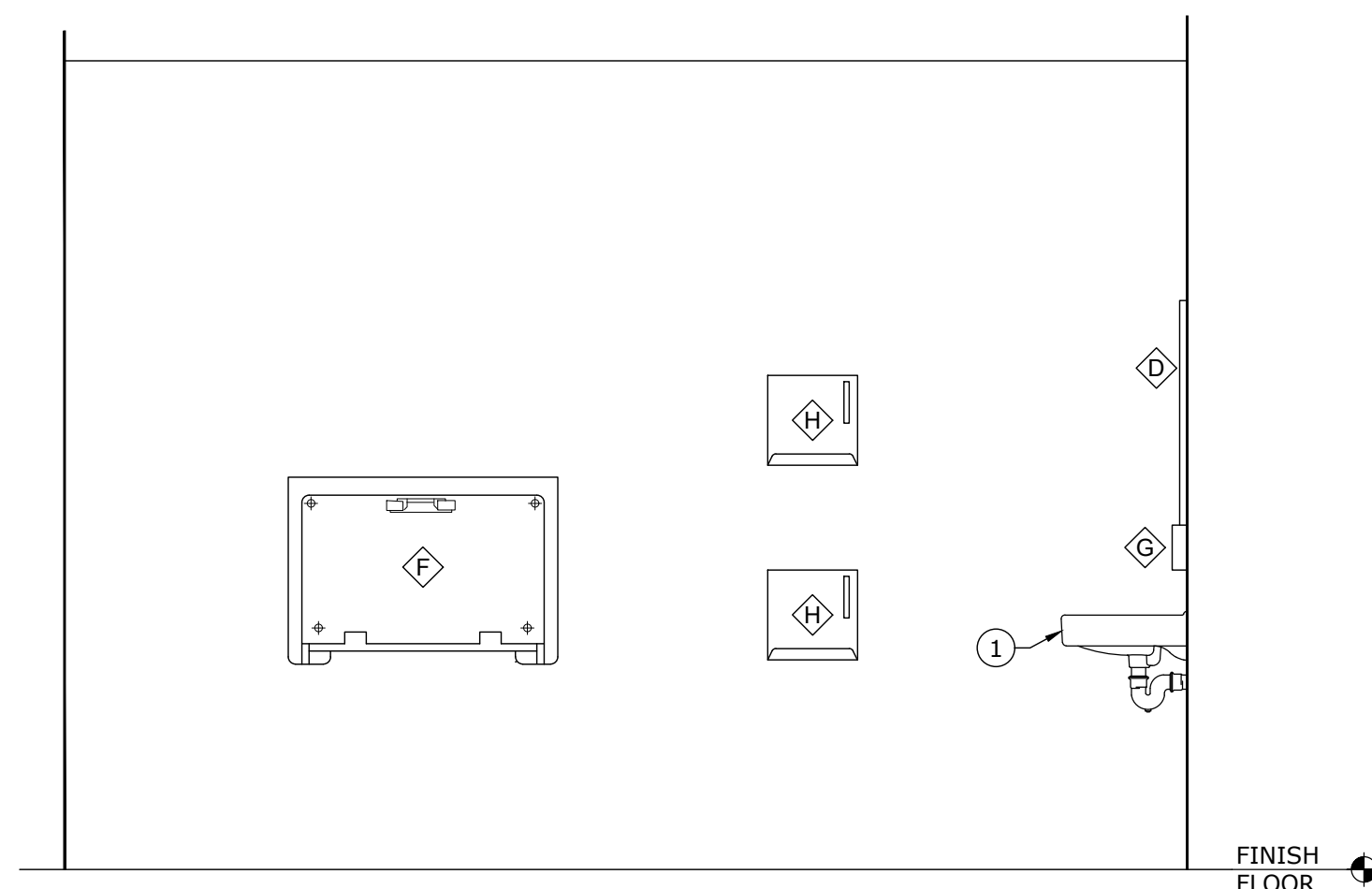
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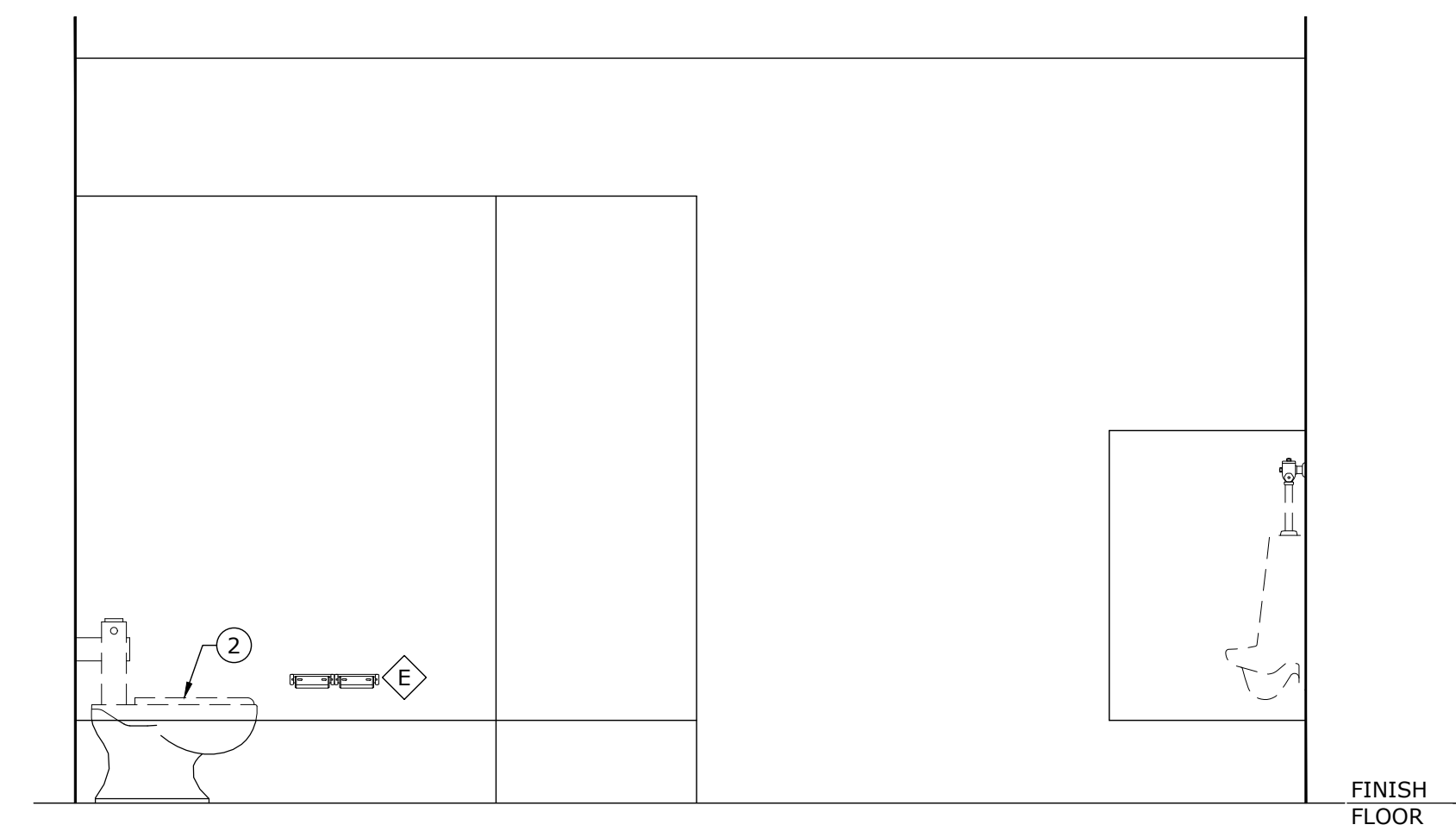
B



C



A



D

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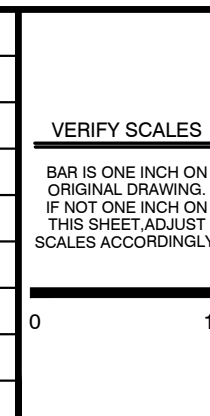
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- ③ WALL MOUNTED URINAL
- ④ FLOOR DRAINS
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				QA/QC: _____ DATE: ____/____/____



**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

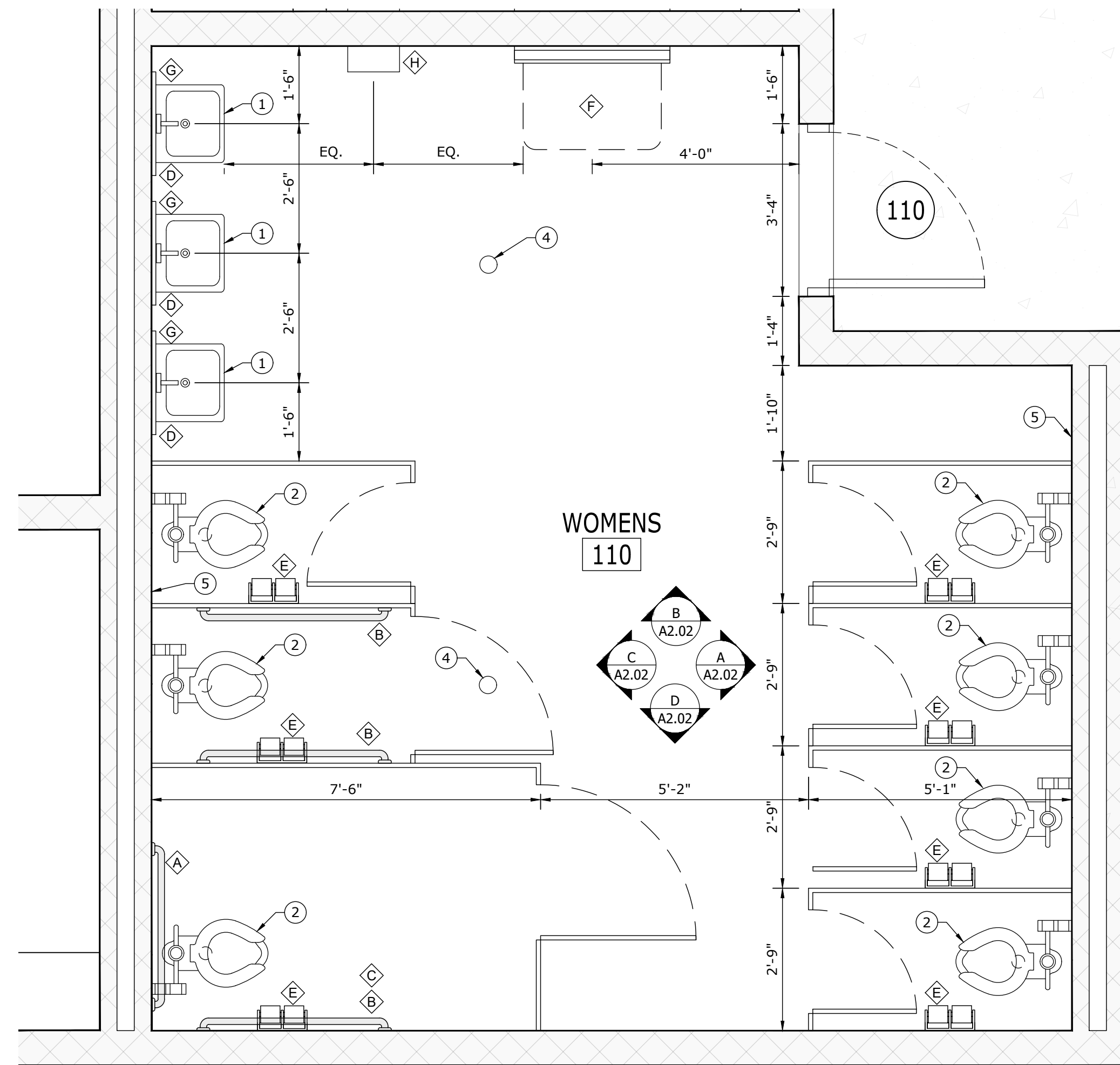
JACKSON COUNTY BOARD OF SUPERVISORS



**ENLARGED RESTROOM
INTERIOR ELEVATIONS**

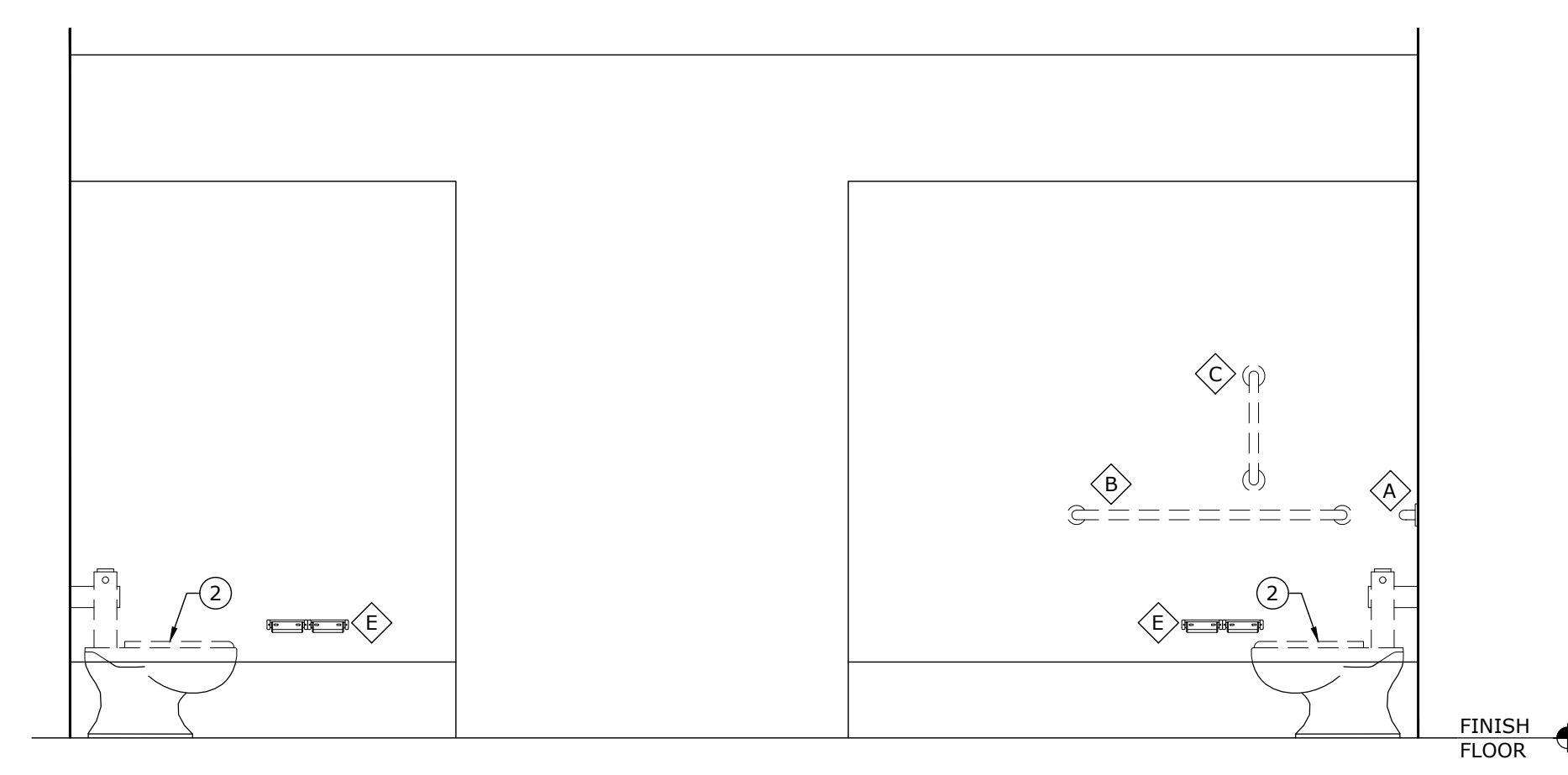
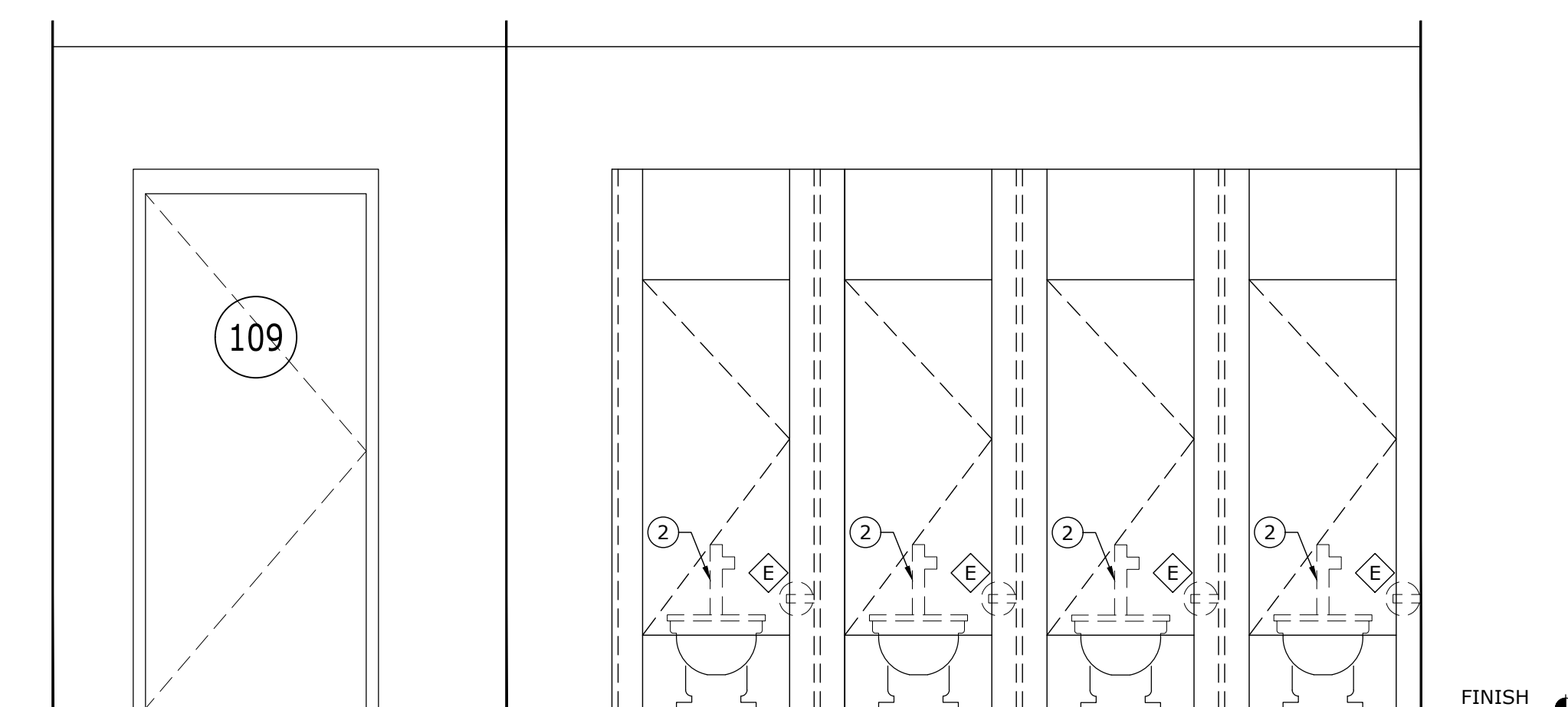
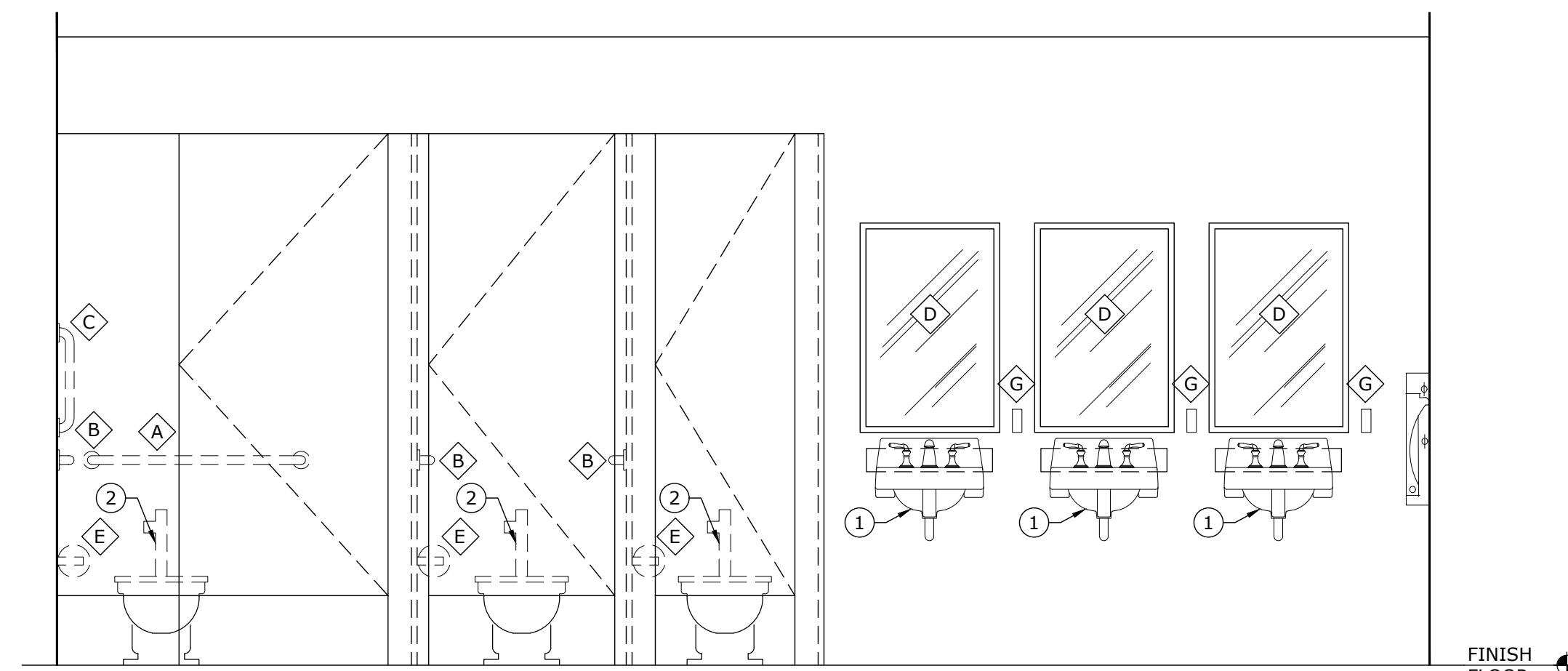
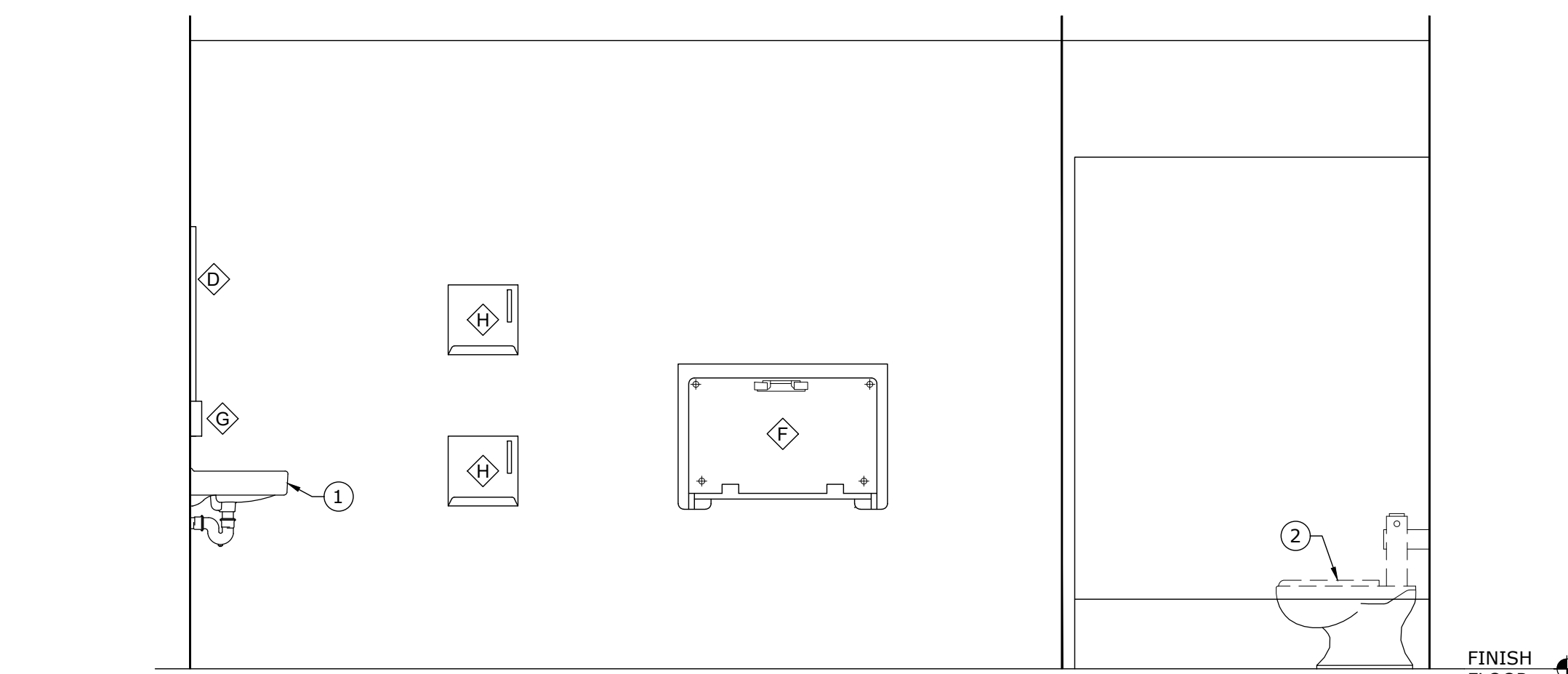
WORKING NUMBER: **A2.01** DRAWING NUMBER: **21 of 45**

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PROPOSED INTERIOR ELEVATIONS - WOMENS RESTROOM

SCALE: NOT TO SCALE



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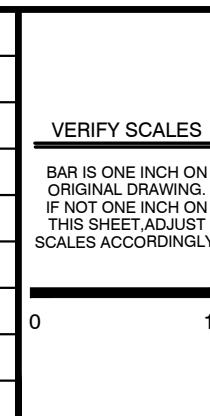
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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
(RE-BID)**

JACKSON COUNTY BOARD OF SUPERVISORS



ENLARGED RESTROOM INTERIOR ELEVATIONS	
WORKING NUMBER: A2.02	DRAWING NUMBER: 22 of 45

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PLUMBING ABBREVIATIONS LEGEND					
ABBREVIATION	REPRESENTATION OF ABBREVIATION	ABBREVIATION	REPRESENTATION OF ABBREVIATION	ABBREVIATION	REPRESENTATION OF ABBREVIATION
AD	ACCESS DOOR	GHT	GARDEN HOSE THREAD	SP	STATIC PRESSURE
AFF	ABOVE FINISHED FLOOR	HD	HUB DRAIN	TDH	TOTAL DYNAMIC HEAD
AFG	ABOVE FINISHED GRADE	IPS	INTERNATIONAL PIPE STANDARD	TD, ΔT	TEMPERATURE DIFFERENCE
AHJ	AUTHORITY HAVING JURISDICTION	K	THERMAL CONDUCTIVITY BTU/(HR*FT*F)	T STAT	THERMOSTAT
BTU	BRITISH THERMAL UNIT	LWT	LEAVING WATER TEMPERATURE	TYP	TYPICAL
CAP	CAPACITY	MCA	MINIMUM CIRCUIT AMPACITY	UG	UNDERGROUND
CCW	COUNTERCLOCKWISE	MOC	MAXIMUM OVERCURRENT PROTECTION	U.N.O.	UNLESS NOTED OTHERWISE
CW&V	COMBINATION WASTE & VENT	MS	MOTOR STARTER	VAC	VACUUM
CW	CLOCKWISE	NC	NOISE CRITERIA	VFD	VARIABLE FREQUENCY DRIVE
DBA	DECIBEL (A. SCALE)	N.C.	NORMALLY CLOSED	VOL	VOLUME
(D)	DEMOLISH	NIC	NOT IN CONTACT	VTR	VENT THROUGH ROOF
DIFF, Δ	DIFFERENCE	N.O.	NORMALLY OPEN	VTW	VENT THROUGH WALL
DS	DISCONNECT SWITCH	NTS	NOT TO SCALE	WC	WATER COLUMN
EL	ELEVATION	PD	PRESSURE DROP or DIFFERENCE	WG	WATER GAUGE
EWT	ENTERING WATER TEMPERATURE	PH	PHASE (ELECTRICAL)	(X)	EXISTING (TO REMAIN)
GA	GAGE or GAUGE	R	THERMAL RESISTANCE (HR*FT*F)/BTU		

PLUMBING PIPE SERVICE LEGEND	
SYMBOL / LINE TYPE	DESCRIPTION OF SERVICE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	GREASE WASTE
	PROPANE GAS
	SANITARY SEWER
	VENT

NOTE:
PIPING TAGS IN BRACKETS, E.G. [CW] MAY OR MAY NOT BE TAGGED ON PIPING. IN MARKS ABSENCE, PIPING SHALL BE IDENTIFIED BY LINE TYPE ALONE. PIPING MAY BE UNDERGROUND WITHOUT CLARIFICATION. THE "UG" CLARIFICATION IS USED WHERE PIPING MAY ORDINARILY BE ABOVE CEILING. EG: COLD WATER OR VENT PIPING.

PLUMBING SYMBOL LEGEND			
SYMBOL	DESCRIPTION OF COMPONENT	SYMBOL	DESCRIPTION OF COMPONENT
	BALL VALVE		HOSE BIBB (HB)- 3/4" GHT
	CALIBRATED BALANCING VALVE (CBV)		PIPE ELBOW DOWN
	CHECK VALVE		PIPE ELBOW UP
	DRAIN VALVE W/ 3/4" GHT		PLUG CLEANOUT
	EXTERIOR CLEANOUT		PUMP DISCHARGE VALVE (PDV)
	EXTERIOR CLEANOUT (2-WAY)		TRAP PRIMER VALVE (TPV)
	FLOOR CLEANOUT		U/G GATE VALVE w/ VALVE BOX
	FREEZE PROOF WALL HYDRANT - 3/4"		VENT THROUGH ROOF
	GAS COCK		WALL CLEANOUT
	GATE VALVE		WATER HAMMER ARRESTER (WHA) "A", "B", "C" PDI TYPE
	POINT OF NEW CONNECTION		LIMIT OF DEMOLITION
	CONNECTION MARK		

PLUMBING GENERAL NOTES

- SCOPE:** THE SCOPE OF THE WORK IS GENERALLY INDICATED BY THE DRAWINGS AND SUMMARIZED BY THIS SCOPE OF WORK. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS OF THE INSTALLATION OF PLUMBING WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL CONDITIONS AND REQUIREMENTS FOR THE INSTALLATION OF THE WORK.
- CONTRACT DOCUMENTS:** THE ORDER OF PRECEDENCE SHALL BE 1) MORE STRINGENT OR RESTRICTIVE INTERPRETATION 2) PLANS ON DRAWINGS 3) NOTES ON DRAWINGS AND 4) SPECIFICATIONS (WHERE SPECIFICATIONS ARE ALSO INCLUDED).
- CODES & STANDARDS:** BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.
- PLUMBING CODE COMPLIANCE:** COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE AND ALL LOCAL ORDINANCES IN THE PERFORMANCE OF PLUMBING WORK REQUIRED FOR THIS PROJECT.
- COORDINATION:** COORDINATE THE PLUMBING WORK WITH THE WORK OF THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. OBTAIN INFORMATION REGARDING THE ROUGH-IN AND FINAL CONNECTION REQUIREMENTS FOR EQUIPMENT TO BE PROVIDED BY THE OWNER OR OTHER CONTRACTORS PRIOR TO COMMENCING WORK.
- PLAN TERMS AND DEFINITIONS:** THE FOLLOWING TERMS USED SHALL BE DEFINED AS FOLLOWS IN THE DOCUMENTS HEREIN:
 - INSTALL:** UNLOAD, UNPACK, APPLY, AND CONNECT ITEM, AS APPLICABLE. RELOCATED OR FURNISHED BY OTHERS, AS APPLICABLE.
 - PROVIDE:** FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE, AS APPLICABLE IN EACH INSTANT.
- ROOF SUPPORTS AND PENETRATIONS:** PROVIDE MANUFACTURED ROOF CURBS AND EQUIPMENT/PIPE SUPPORTS (MIN. 11" HIGH) AS MANUFACTURED BY PATE CURB COMPANY, OR EQUIVALENT, TO SUPPORT ROOF MOUNTED EQUIPMENT AND HORIZONTAL PIPING. PROVIDE HEAVY DUTY TREAD PADS UNDER PIPE SUPPORTS WHERE SUPPORTS SIT ON ROOFING. PROVIDE MANUFACTURED PIPE PORTALS (MIN. 8" HIGH) WITH NEOPRENE CAPS AT ALL PIPING PENETRATIONS THROUGH THE ROOF. SECURE CURBS, SUPPORTS, AND PORTALS TO THE ROOF DECK STRUCTURE. FLASH, COUNTER FLASH, AND SEAL ALL CURBS, SUPPORTS AND PORTALS TO ACHIEVE A WATERTIGHT SEAL AT THE ROOF.
- CUTTING & PATCHING:** PROVIDE LABOR, EQUIPMENT AND SPECIAL SERVICES NECESSARY TO CREATE OPENING NECESSARY FOR THE PASSAGE OF PIPING AND OTHER PLUMBING WORK. APPLY A ROUGH PATCH TO CLOSE OFF UNUSED PORTIONS OF OPENINGS USING MATERIALS THAT ARE SUBSTANTIALLY SIMILAR TO THAT OF THE ADJACENT STRUCTURE. FINAL PATCH AND FINISHES WILL BE APPLIED BY THE GENERAL CONTRACTOR.
- MATERIALS, EQUIPMENT, AND SUBMITTALS:** PROVIDE MATERIALS AND EQUIPMENT OF THE TYPE, SIZE, CAPACITY, AND QUANTITY INDICATED BY THESE DOCUMENTS. WHERE MATERIAL SPECIFICATIONS ARE NOT INDICATED, PROVIDE MATERIALS THAT COMPLY WITH THE HIGHEST QUALITY INDUSTRY STANDARD. IF NO SUCH STANDARD EXISTS, CONTACT THE ARCHITECT/ENGINEER TO ASCERTAIN THE APPROPRIATE SPECIFICATION.
- SUBSTITUTIONS:** THE OWNER WILL CONSIDER SUBSTITUTIONS OF THE BASE SPECIFICATION WHERE GREATER VALUE CAN BE ACHIEVED. OBTAIN THE WRITTEN PERMISSION OF THE ARCHITECT/ENGINEER PRIOR TO MAKING ANY SUBSTITUTIONS AND TAKE RESPONSIBILITY FOR THE DIMENSIONAL AND PERFORMANCE CONSTRAINTS IMPOSED BY THE SUBSTITUTED EQUIPMENT/MATERIAL.
- GAS PIPING:** PROVIDE GAS PIPING SYSTEMS IN ACCORDANCE WITH NFPA STD. 54. USING SCHEDULE 40 BLACK PIPE (ASTM A-53/120). PROVIDE MALLEABLE IRON THREADED FITTING UP TO 2" PIPE SIZE AND WROUGHT STEEL BUTTWELDING FITTINGS 2 1/2" PIPE SIZE AND OVER. PROVIDE "DURATHANE" ASTM D-2513 THERMOPLASTIC GAS PRESSURE PIPE FOR UNDERGROUND DISTRIBUTION. PROVIDE APPROPRIATE SUPPORTS AND ANCHORS, SQUARE HEAD GAS COCKS, AND PRESSURE REGULATORS WHERE INDICATED OR NECESSARY. EXTEND THE VENT FROM ALL PRESSURE REGULATORS TO OUTSIDE THE BUILDING, INDIVIDUALLY AND AT THE FULL SIZE OF THE REGULATOR VENT CONNECTION SIZE.
- GAS VENTING:** PROVIDE GAS VENTING SYSTEMS IN ACCORDANCE WITH NFPA STD. 54. GENERALLY PROVIDE: METALBESTOS "DF", OR EQUAL, TYPE B GAS VENT PIPE, FITTINGS, AND SPECIALTIES FOR ATMOSPHERIC BURNERS; METALBESTOS "PS", OR EQUAL, POSITIVE PRESSURE GAS VENT PIPE, FITTINGS, AND SPECIALTIES FOR POWER BURNER SYSTEMS. WHERE THE MANUFACTURER OF GAS-BURNING APPLIANCES RECOMMENDS THE USE OF MATERIALS OTHER THAN THOSE SPECIFIED HEREIN, THE CONTRACTOR MAY IMPLEMENT SUCH RECOMMENDATIONS IF THE MATERIALS AND DESIGN ARE SUITABLE TO THE APPLICATION AND COMPLY WITH BUILDING CODE REQUIREMENTS.
- WATER DISTRIBUTION PIPING:** PROVIDE DOMESTIC COLD WATER, HOT WATER, HOT WATER RETURN AND OTHER INDICATED WATER DISTRIBUTION PIPING SYSTEMS OF TYPE, SIZE, QUANTITY, AND CAPACITY INDICATED ON THE DRAWINGS AND OF MATERIALS INDICATED IN THE PLUMBING MATERIALS TABLE. PROVIDE HANGERS, ANCHORS, CLAMPS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM. HANGERS SHALL BE FIBERGLASS OR STAINLESS STEEL WITH STAINLESS STEEL HARDWARE WHERE EXPOSED TO HUMIDITY >80%RH INCLUDING SPACES VENTILATED BY UNTREATED OUTSIDE AIR.
- LEGIIONELLA:** LEGIONELLA CAN GROW IN THE BUILDING'S COLD WATER DISTRIBUTION SYSTEM AS WATER TEMPERATURES NEAR ROOM TEMPERATURES. SYSTEMS SHALL MEET ASHRAE STANDARD 188-2015 "LEGIONELLOSIS: RISK MANAGEMENT FOR BUILDING WATER SYSTEMS". COLD WATER TEMPERATURE THROUGHOUT THE SYSTEM SHOULD BE MAINTAINED AT OR BELOW BUILDING CW INLET TEMPERATURES TO THE EXTENT PRACTICABLE TO INHIBIT GROWTH; THE USE OF PIPING SYSTEM INSULATION AND AUTOMATIC DRAIN DEVICES (AS APPLICABLE) SHALL BE USED TO LIMIT THE RATE AND DURATION OF INCREASED TEMPERATURES WITHIN THE COLD WATER SYSTEM. HOT WATER SYSTEMS ARE DESIGNED TO MAINTAIN STORED HW ABOVE 130°F AND HW DISTRIBUTION WATER SYSTEM ABOVE 125° F. CW & HW SUPPLY TO REMOVE FIXTURES FOUND TO BE INFREQUENTLY USED SHALL BE FLUSHED MONTHLY OR AS DIRECTED BY STANDARD 188.
- DRAINAGE PIPING:** PROVIDE DRAIN, WASTE, VENT AND OTHER INDICATED DRAINAGE PIPING SYSTEMS OF TYPE, SIZE, QUANTITY, AND CAPACITY INDICATED ON THE DRAWINGS, OF MATERIALS INDICATED IN THE PLUMBING MATERIALS TABLE. PROVIDE HANGERS, ANCHORS, CLAMPS, SUPPORTS, AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM. HANGERS SHALL BE GALVANIZED STEEL WITH GALVANIZED STEEL HARDWARE IN CONDITIONED SPACES AND FIBERGLASS OR STAINLESS STEEL WITH STAINLESS STEEL HARDWARE WHERE EXPOSED TO HUMIDITY >80%RH INCLUDING SPACES VENTILATED BY UNTREATED OUTSIDE AIR. METAL HANGERS SHALL HAVE NON-METALLIC (DIELECTRIC) PADS WHERE SUPPORTING DISSIMILAR PIPING MATERIAL (E.G. COPPER PIPE ON STEEL HANGER).
- PLUMBING INSULATION:** PROVIDE INSULATION PER REFERENCE TABLE PROVIDED IN SPECIFICATIONS WHERE INCLUDED WITH CONSTRUCTION DOCUMENTS. OTHERWISE, FOR PIPING IN HUMIDITY CONTROLLED ENVIRONMENTS, PROVIDE 1" THICK FIBERGLASS PIPE INSULATION WITH ALL-SERVICE JACKET (ASTM C-547, C-921, TYPE I OR II AS APPROPRIATE FOR TEMPERATURE) ON ALL COLD WATER (AS NOTED BELOW), HOT WATER, HOT RETURN AND COLD DRAINAGE PIPING (CONDENSATE, ETC) AS WELL AS ROOF DRAIN LEADERS TO 5'-0" FROM ROOF DRAIN. INSULATION FOR COLD WATER PIPING MAY BE OMITTED FOR PIPING INSTALLED IN LOCATED IN INTERIOR WALLS, PLENUMS ABOVE CONDITIONED/HEATED SPACES, EXPOSED IN CONDITIONED/HEATED ROOMS, OR WHERE IT IS NOT SUBJECT TO FREEZING. PEX PIPING, WHERE ALLOWED, SHALL BE INSULATED WITH 1" CLOSED-CELL ELASTOMERIC INSULATION EQUAL TO RUBATEX INSUL-TUBE 180. PROVIDE PRESSURE SENSITIVE TAPE, MASTIC, OR OTHER MATERIALS AS MAY BE REQUIRED TO MAINTAIN A CONTINUOUS VAPOR BARRIER THROUGHOUT THE SYSTEM. PIPING EXPOSED TO HUMIDITY >80%RH, INCLUDING MECHANICAL ROOMS, OUTDOORS, EXPOSED INDOORS, OR SUBJECT TO TRAFFIC SHALL BE POLYISOCYANURATE OR EQUAL, JACKETED WITH PVC, MIN. 20 MIL THICKNESS WITH PRE-MOLDED PVC COVERS AT ALL FITTINGS. JACKETS AND VAPOR BARRIER MATERIALS MUST MEET LOCAL ORDINANCE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED RATINGS.
- SWAY BRACING:** WHERE HORIZONTAL PIPES 4" AND LARGER CONVEY DRAINAGE AND WASTE, AND WHERE A PIPE FITTING IN THAT PIPING CHANGES THE FLOW DIRECTION GREATER THAN 45 DEGREES, RIGID BRACING OR OTHER RIGID SUPPORT ARRANGEMENTS SHALL BE INSTALLED TO RESIST MOVEMENT OF THE UPSTREAM PIPE IN THE DIRECTION OF PIPE FLOW. A CHANGE OF FLOW DIRECTION INTO A VERTICAL PIPE SHALL NOT REQUIRE THE UPSTREAM PIPE TO BE BRACED.
- INSTRUMENTATION:** PROVIDE THERMOMETERS, THERMOWELLS, PRESSURE GAUGES, FLOW INDICATORS, CALIBRATED BALANCING VALVES, P&T PLUGS, AND OTHER INSTRUMENTATION INDICATED ON THE DRAWINGS. IN THE ABSENCE OF SUCH INDICATION, PROVIDE, AT MINIMUM, THERMOWELLS AND THERMOMETERS AT EACH ITEM OF HEAT TRANSFER EQUIPMENT (WATER HEATER, WATER CHILLER, HOT WATER GENERATOR, ETC.) AND MIN. 4" PRESSURE GAUGE WITH GAUGE COCKS AND SNUBBERS, FOR EACH ITEM OF SIGNIFICANT PRESSURE DROP (E.G., PUMP, HEAT EXCHANGER, ETC.). ELIMINATE DIFFERENTIAL PRECISION ERROR BY USING A SINGLE GAUGE MANIFOLDED WITH MULTIPLE VALVED PORTS TO THE FURTHEST PRACTICAL EXTENT.
- IDENTIFICATION:** PROVIDE PLUMBING SYSTEMS IDENTIFICATION TO INDICATE THE TAG, TYPE, FLOW, TEMPERATURE RANGE, CAPACITY, ETC. OF EACH ITEM OF EQUIPMENT AND ALL CONVEYANCES (PIPING SYSTEMS). PROVIDE MIN. 2" LETTER ENGRAVED PLASTIC LAMINATE PLATES FOR EQUIPMENT, "SNAP-ON" PIPE MARKERS FOR PIPING, MINIMUM EVERY 10' OF EXPOSED PIPING. PROVIDE ENGRAVED PLASTIC LAMINATE VALVE TAGS AT EACH VALVE AND A VALVE TAG SCHEDULE WITH 11X17 FLOOR PLANS WITH VALVES MARKED, AND HIGHLIGHTED. SCHEDULES & PLANS SHALL BE LAMINATED, BOUND, AND MARKED "KEEP AT WATER HEATER IN JANITOR CLOSET" OR LOCATION AS NOTED BY OWNER AND DOCUMENTED IN AS-BUILT.
- CONTROLS:** PROVIDE ALL CONTROL DEVICES, CONDUIT, CONDUCTORS, AND ACCESSORIES REQUIRED TO FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM OF PLUMBING CONTROLS TO ACCOMPLISH THE INDICATED SEQUENCE OF OPERATION. IN THE ABSENCE OF SEQUENCE PROVIDED, FOLLOW RECOMMENDED SEQUENCE OF OPERATION PROVIDED IN EQUIPMENT LITERATURE.
- FIELD INSPECTIONS:** A MINIMUM OF (2) FIELD INSPECTIONS ARE REQUIRED TO BE PERFORMED ON ALL PLUMBING INSTALLATIONS. CONTRACTOR SHALL NOTIFY ARCHITECT OR ENGINEER OF RECORD ONCE BELOW SLAB SYSTEMS HAVE BEEN INSTALLED BEFORE SLAB IS Poured TO ALLOW FOR A PROGRESS INSPECTION BY ENGINEER. FINAL INSPECTION WILL BE PERFORMED AFTER ALL PIPING SYSTEMS AND EQUIPMENT HAS BEEN INSTALLED AND ALL ITEMS HAVE BEEN ADDRESSED FROM INITIAL FIELD INSPECTION.
- SYSTEMS COMMISSIONING:** PROVIDE THE SERVICES OF A TECHNICIAN, QUALIFIED AND EXPERIENCED IN THE FIELD OF HVAC SYSTEMS TO COMMISSIONING TO INITIATE, QUANTIFY, ADJUST AND CALIBRATE THE OPERATION OF THE INSTALLED SYSTEMS. PERFORM COMMISSIONING IN ACCORDANCE WITH LEVEL 1, 2, AND 3 ASHRAE GUIDELINE 0-2013 "THE HVAC COMMISSIONING PROCESS". COMMISSIONING TO INCLUDE (1) FACTORY ACCEPTANCE TESTING (2) SITE ACCEPTANCE, I.E. DOCUMENTATION BY CONTRACTOR & (3) PREFUNCTIONAL TESTING AND START-UP VERIFICATION BY VENDOR, AUTHORIZED FACTORY AGENT, QUALIFIED TAB CONTRACTOR AND/OR COMMISSIONING AGENT. CONTRACTOR SHALL INCLUDE PRELIMINARY COMMISSIONING PAPERWORK CHECKLIST IN SUBMITTALS. AT PROJECT CLOSEOUT OR SUBSTANTIAL COMPLETION THE COMMISSIONING CHECKLIST SHALL BE INCLUDED IN DOCUMENTATION WITH ALL COMPLETED ITEMS MARKED ACCORDINGLY. CHECKLIST SHALL INCLUDE PROVISION FOR AND BE SIGNED BY AGENTS FOR OWNER, CONTRACTOR, ARCHITECT/ENGINEER AND, WHERE APPLICABLE, THE COMMISSIONING AGENT. REMAINING UNCHECKED ITEMS SHALL BE MOVED BY CONTRACTOR TO FINAL PUNCH LIST
- AS-BUILT PLANS:** CONTRACTOR SHALL MAINTAIN RED LINE MARKUPS OF AS-BUILT DRAWINGS ON SITE AT ALL TIMES. CONTRACTOR SHALL PRESENT PLANS TO ENGINEER AT ALL SITE VISITS (SCHEDULED OR UNSCHEDULED). AT PROJECT CLOSE OUT, CONTRACTOR SHALL PROVIDE PDF'S OF ALL REVISED PLANS TO ARCHITECT/ ENGINEER GENERATED WITH COMPUTER BASED EDITS IN PDF OR AUTOCAD. REVISIONS ARE TO BE CLOUDED. ENGINEER MAY MAKE CAD REVISIONS UNDER ADDITIONAL SCOPE.
- TEST & BALANCE:** TEST, BALANCE, AND ADJUST ALL WATER FLOW QUANTITIES TO WITHIN 10% OF THOSE INDICATED ON DRAWINGS. PROVIDE ADDITIONAL DRIVES, MOTORS OR OTHER DEVICES AND ACCESSORIES AS MAY BE REQUIRED TO ADJUST FLOW QUANTITIES AS REQUIRED. SUBMIT THREE COPIES OF THE FINAL REPORT TO THE ARCHITECT/ ENGINEER WITHIN 10 DAYS OF THE COMPLETION OF BALANCING WORK.
- CONTRACT CLOSEOUT:** PROVIDE EVIDENCE THAT ALL CONTRACTUAL OBLIGATIONS HAVE BEEN MET, INCLUDING, BUT NOT NECESSARILY LIMITED TO, PROVIDING "AS-BUILT" DRAWINGS, SYSTEM COMMISSIONING REPORTS, OPERATING AND MAINTENANCE MANUALS, TRAINING OF PERSONNEL, FULLY EXECUTED PUNCHLIST, WARRANTIES, EXTENDED WARRANTIES, AND OTHER DOCUMENTS THAT MAY BE PERTINENT TO THE PLUMBING PORTION OF THE PROJECT.
- WARRANTY:** THE CONTRACTOR SHALL WARRANT THE WORK PROVIDED AS PART OF THIS PROJECT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE FINAL PUNCH LIST ACCEPTANCE DATE.

SHEET INDEX	
P1.01 - PLUMBING GENERAL NOTES & LEGENDS	
P1.02 - PLUMBING WORKSHEETS	
P2.01 - SANITARY PLAN	
P2.02 - DOMESTIC WATER AND GAS PLAN	
P3.01 - PLUMBING SCHEDULES	
P3.02 - PLUMBING DETAILS	
P4.01 - PLUMBING RISERS	

LEVEL 1 DISCIPLINE — P1.01

- P = PLUMBING

SHEET TYPE

- 1 = GENERAL

- 2 = PLANS

- 3 = SCHEDULES & DETAILS

- 4 = RISER

SEQUENCE NUMBER



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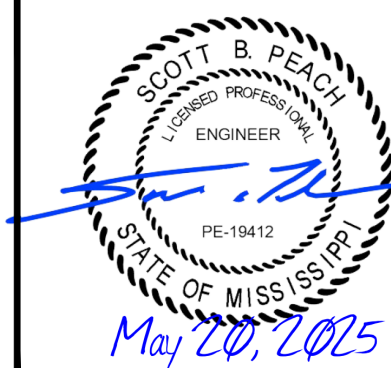
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PLUMBING GENERAL NOTES
& LEGENDS

WORKING NUMBER: DRAWING NUMBER:

P1.01

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INTERNATIONAL PLUMBING CODE PIPING MATERIALS										
PIPING TYPE	COPPER PIPE ASTM B42, ASTM B302	COPPER TUBE ASTM B75, ASTM B88, ASTM B251, ASTM B306	CAST IRON ASTM A74, CISPI 301, ASTM A888	COATED CAST IRON ASTM 1277 CISPI 301 ASTM A888 EN877	PVC PLASTIC ASTM D2665, ASTM D1784, ASTM D1785	PP-R FASER COMPOSITE ASTM F2389 NSF 14 NSF 61	CONCRETE ASTM C14, ASTM C76	POLYPROPYLENE ASTM F1412 ASTM D4101 ASTM D3311	CPVC ASTM 2846 ASTM F441 ASTM F442 ASTM 1061 ASTM F437	PEX-a ASTM F876 ASTM F1960 ASTM F2657
WATER SERVICE (TO BUILDING)	YES	YES	NO	NO	YES	YES	NO	YES	YES	NO
WATER DISTRIBUTION	YES	YES	NO	NO	NO	YES	NO	YES	YES	NO
ABOVE GROUND DRAINAGE & VENT	YES	YES	YES	YES	YES	NO	NO	YES	YES	NO
UNDERGROUND BLDG. DRAINAGE & VENT	NO	YES	NO	YES	YES	NO	NO	YES	YES	NO
BUILDING SEWER	NO	YES	YES	YES	YES	NO	YES	YES	YES	NO
ABOVE GROUND STORM DRAIN	NO	YES	YES	YES	YES	NO	YES	NO	NO	NO
UNDERGROUND STORM DRAIN	NO	YES	YES	YES	YES	NO	YES	NO	NO	NO
SUBSOIL DRAIN	NO	NO	YES	YES	ASTM D2729	NO	NO	NO	NO	NO
D.W.V. IN PLENUM	YES	YES	YES	YES	NO	NO	NO	YES	YES	NO

NOTES:
1. FOR MATERIALS ALLOWED FOR HOT WATER RELIEF DISCHARGE SEE WATER DISTRIBUTION.
2. PEX-a, PEX-b AND PEX-c, & FOAM CORE PVC ARE FORBIDDEN.
3. ALL WATER DISTRIBUTION PIPING FITTINGS MUST BE FULL BORE.

COMMERCIAL WATER SUPPLY SIZING WORKSHEET										
FIXTURE TYPE	OCCUPANCY	CONTROL	QTY	LOAD VALUES (WSFU)			ACTUAL DEMAND (WSFU)			
				COLD	HOT	COMB.	COLD	HOT	COMB.	
KITCHEN SINK	HOTEL, RESTAURANT	FAUCET	2	3.00	3.00	4.00	6.00	6.00	8.00	
LAVATORY	PRIVATE	FAUCET	1	0.50	0.50	0.70	0.50	0.50	0.70	
LAVATORY	PUBLIC	FAUCET	6	1.50	1.50	2.00	9.00	9.00	12.00	
URINAL	PUBLIC	3/4" FLUSH VALVE	5	5.00	0.00	5.00	25.00	0.00	25.00	
WALL HYDRANT	PRIVATE/PUBLIC	3/4" INLET	2	5.00	0.00	5.00	10.00	0.00	10.00	
WATER CLOSET	PRIVATE	FLUSH VALVE	1	6.00	0.00	6.00	6.00	0.00	6.00	
WATER CLOSET	PUBLIC	FLUSH VALVE	9	10.00	0.00	10.00	90.00	0.00	90.00	
TOTAL W.S. FIXTURE UNITS							146.50	15.50	151.70	
UNIT DEMAND FLOW (GPM)							FV	78.28	31.40	79.30
TOTAL DEMAND FLOW							78.28	31.40	79.30	
MAIN PIPE SIZE							2"	1 1/2"	2"	

WASTE SIZING WORKSHEET				
FIXTURE TYPE	QUANTITY	FIXTURE DFU	MINIMUM SIZE OF TRAP	TOTAL
3" FLOOR DRAINS	8	5	3"	40
4" FLOOR OR TRENCH DRAINS	4	6	3"	24
FLOOR SINK	1	6	3"	6
LAVATORY	7	1	1 1/4"	7
URINAL	5	2	(FIXTURE)	10
WATER CLOSET, PRIVATE (1.6 GPF)	1	3	(FIXTURE)	3
WATER CLOSET, PUBLIC (1.6 GPF)	9	4	(FIXTURE)	36
			TOTAL DFU:	126
			DRAIN SIZE:	4

FOOD SERVICE GREASE INTERCEPTOR MINIMUM CAPACITY WORKSHEET									
TAG	NO. OF MEALS	MEAL FACTOR: 1.33 - FAST FOOD/ CAFETERIA (45 MIN) 1.00 - RESTAURANT (60 MIN) 0.67 - LEISURE DINING (90 MIN) 0.50 - DINNER CLUB (120 MIN)	GALLONS WATER PER MEAL: 6 - MULTI-SERVICE w/DISHWASHER 5 - MULTI-SERVICE - NO DISHWASHER 2 - SINGLE SERVICE 1 - FOOD WASTE	RETENTION TIME: 2.5 - MULTI-SERVICE (COMM.) KITCHEN 1.5 - SINGLE SERVICE KITCHEN	STORAGE FACTOR: 1.0 - MULTI-SERVICE 8 HOURS OPER. 1.5 - MULTI-SERVICE 12 HOURS OPER. 2.0 - MULTI-SERVICE 16 HOURS OPER. 2.5 - MULTI-SERVICE 24 HOURS OPER. 1.0 - SINGLE SERVICE KITCHEN	TANK SIZE (GALLONS)	GREASE RETENTION (POUNDS) [GALLONS X 5.0]		
GI-1	150	X 1.33	X 2	X 1.5	X 1.0	= 598.5	2,993		
ACTUAL PROJECT REQUIREMENTS:						750	3,750		



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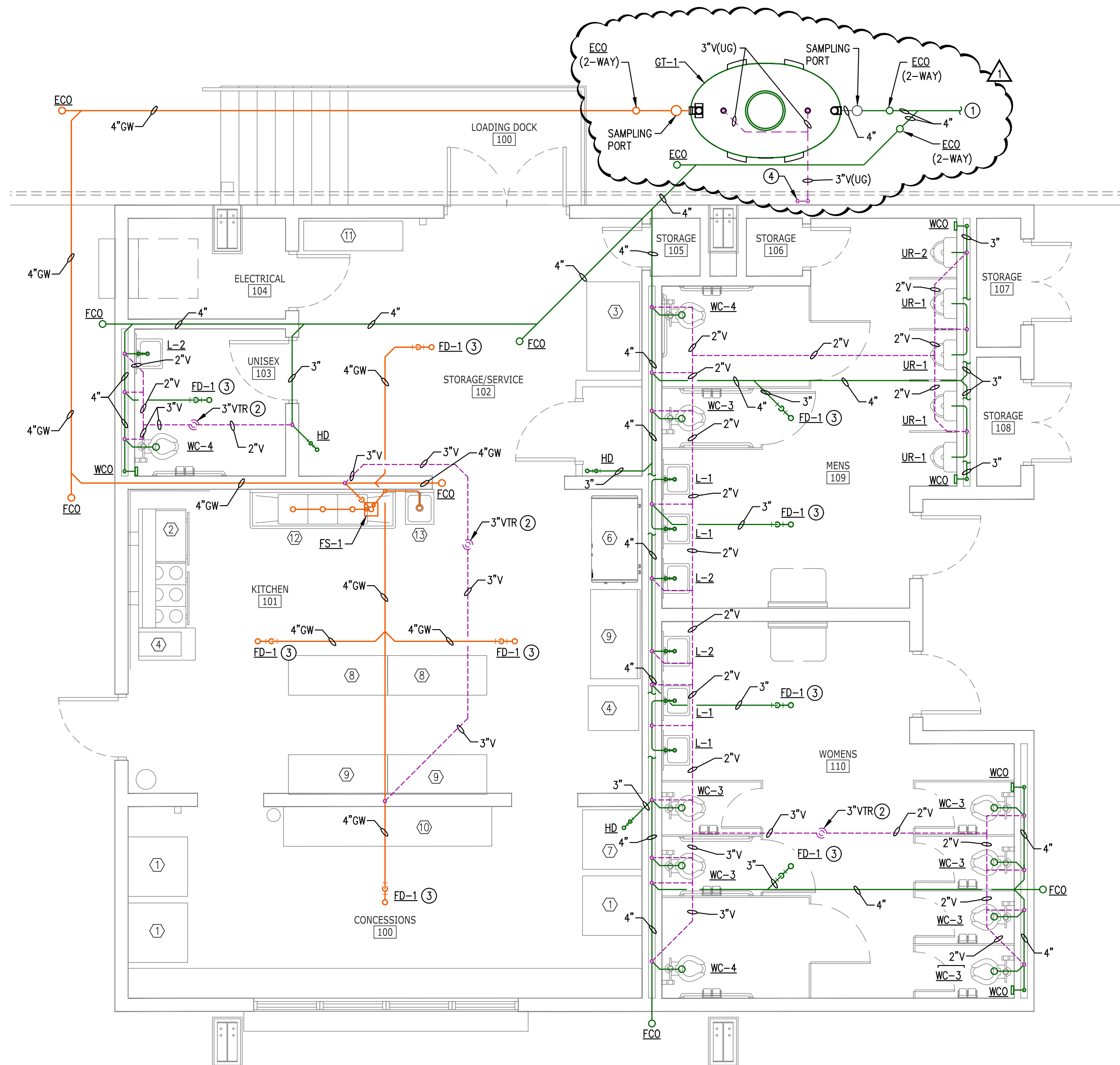
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PLUMBING WORKSHEETS	
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P1.02	-



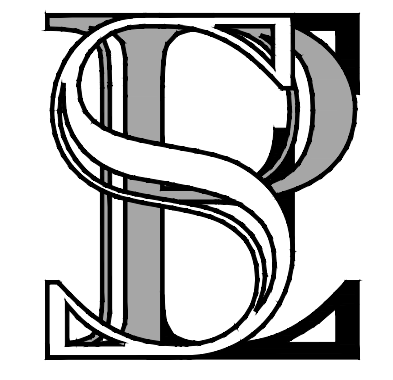
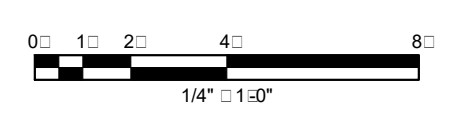
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- INSTALL PIPING DIRECTLY ON CEILING JOISTS. COVER WATER PIPING LOCATED ABOVE CEILING WITH R-19 INSULATION TO PROTECT PIPING FROM FREEZE CONDITIONS.

KEYNOTES:

- REFER TO SITE UTILITY PLAN (BY OTHERS) FOR CONTINUATION OF UG UTILITIES.
- PROVIDE VENT THRU ROOF (VTR) WHERE INDICATED. COORDINATE EXACT LOCATION WITH DUCTWORK IN AREA. NOTIFY HVAC CONTRACTOR IF RELOCATED FOR ANY REASON.
- PROVIDE WATERLESS TRAP SEAL EQUAL TO "GREEN DRAIN" OR "TRAP GUARD" FOR FLOOR DRAINS IN LIEU OF TRADITIONAL TRAP PRIMER. IF NOT PERMITTED BY AHJ, PROVIDE A TRAP PRIMER FOR ALL FLOOR RECEPTORS.
- VENT TO DISCHARGE AT A MINIMUM OF 2.5' ABOVE GRADE WITH DOUBLE ELBOW.
- ROUTE GREASE WASTE PIPING TO GREASE TRAP. PROVIDE 6" SAMPLING PORTS ON INTAKE AND DISCHARGE OF GREASE TRAP. GREASE TRAP SHOWN BASED ON ZURN PROCEPTOR MODEL GMC 750 UPC. TWO ACCESS WAYS ARE REQUIRED FOR GREASE TRAP. COORDINATE LOCATION WITH CIVIL.

SANITARY SEWER PLAN
 SCALE: 1/4" = 1'-0"



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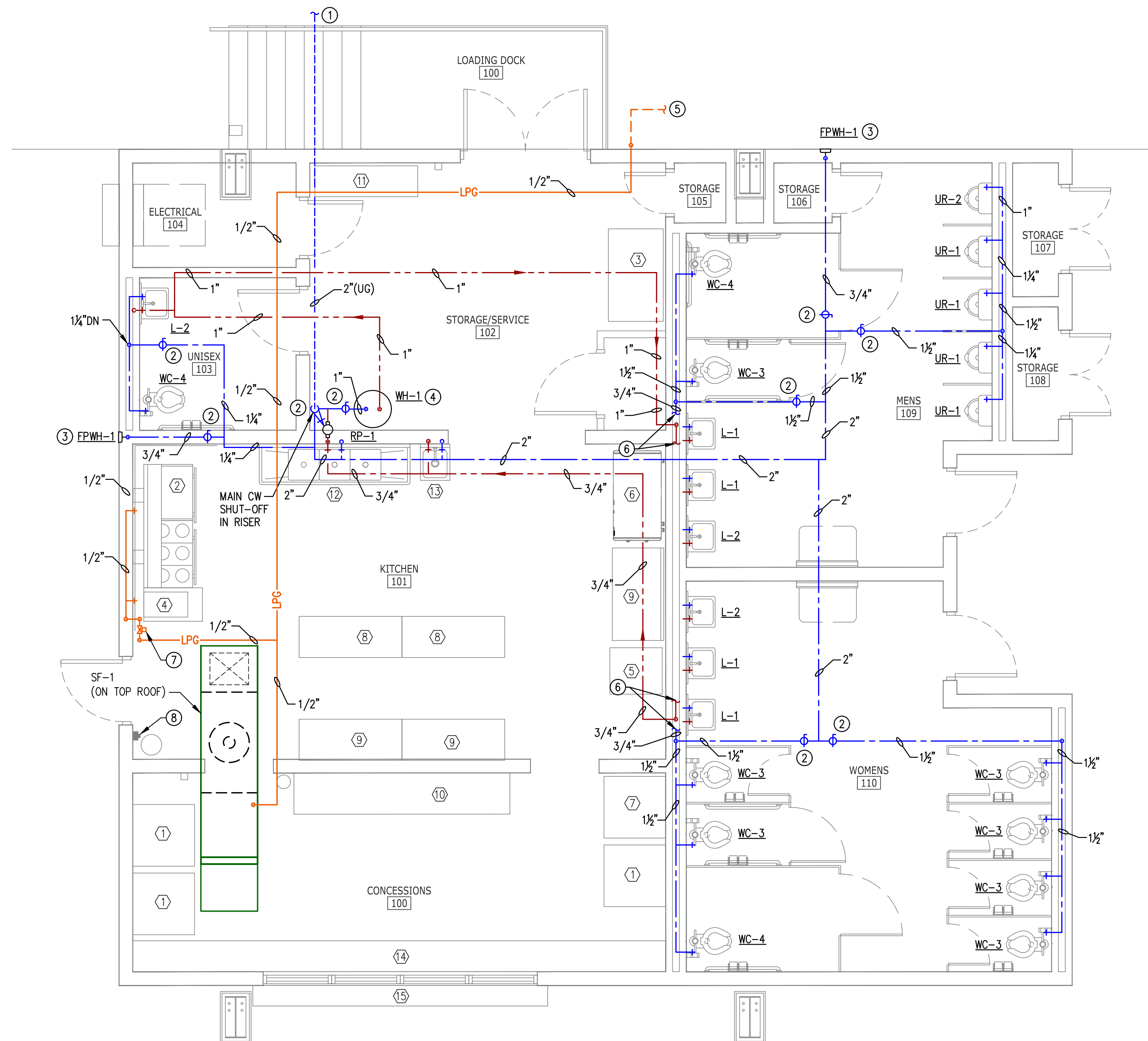
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SANITARY PLAN	
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P2.01	-



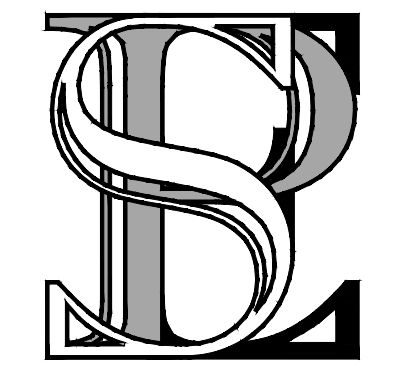
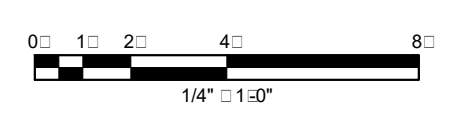
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- INSTALL PIPING DIRECTLY ON CEILING JOISTS. COVER WATER PIPING LOCATED ABOVE CEILING WITH R-19 INSULATION TO PROTECT PIPING FROM FREEZE CONDITIONS.

KEYNOTES:

- REFER TO SITE UTILITY PLAN (BY OTHERS) FOR CONTINUATION OF UG UTILITIES.
- PROVIDE VALVES (MAIN SHUT-OFF OR FIXTURE GROUP ISOLATION BALL VALVE(S)) WHERE INDICATED AT FULL SIZE OF WATER LINE. LABEL VALVES WITH ROOM AFFECTED ON PHENOLIC ENGRAVED PLASTIC TAGS. VALVES SHALL BE ACCESSIBLE THROUGH LAY-IN CEILING OR ACCESS PLATE AS REQUIRED.
- COORDINATE ELEVATION OF FREEZE-PROOF WALL HYDRANTS (FPWH) WITH ARCHITECTURAL ELEMENTS.
- PROVIDE ELECTRIC STORAGE WATER HEATER, WH-1 PER SCHEDULE ON SHEET P3.01. ROUTE DRAIN TO HUB DRAIN. INSTALL PER MANUFACTURERS INSTRUCTIONS. SEE DETAIL ON SHEET P3.02. PROVIDE RECIRCULATION PUMP (RP) ON HOT WATER LOOP PER SCHEDULE ON SHEET P3.01. ROUTE DRAIN PIPING TO DISCHARGE INTO HUB DRAIN. INSTALL PER MANUFACTURERS INSTRUCTIONS. WIRE OPERATION TO AQUASTAT.
- COORDINATE LOCATION OF LIQUID PROPANE GAS STORAGE TANK. PROVIDE ALL ACCESSORIES PER MANUFACTURER RECOMMENDATIONS.
- SEE WATER RISER ON SHEET P3.03 FOR CONTINUATION.
- PROVIDE GAS SHUT-OFF VALVE ON WALL WITH SOLENOID TO SHUT-OFF GAS TO FIXTURE
- PROVIDE EMERGENCY GAS SHUT OFF VALVE PULL STATION.

DOMESTIC WATER PLAN
 SCALE: 1/4" = 1'-0"
 A P2.02



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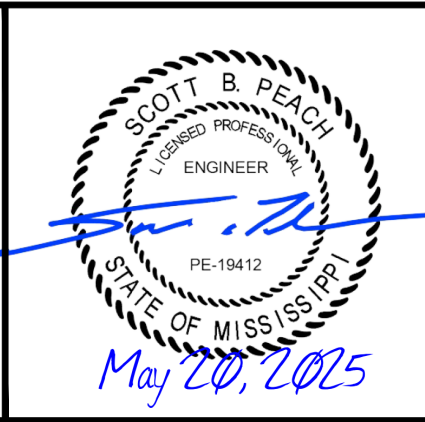
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DOMESTIC WATER AND GAS PLAN	
WORKING NUMBER: P2.02	DRAWING NUMBER: -

PLUMBING FIXTURE SCHEDULE													
TAG	TYPE	MOUNTING	RIM HT	MANUFACTURER	MODEL NUMBER	MATERIAL	FINISH	CW	HW	TRAP	DRAIN	VENT	TRIM/REMARKS
ECO	EXTERIOR CLEANOUT	GRADE	-	ZURN	ZN1400(*)	COATED CAST IRON	POLISHED BRONZE	-	-	-	*	-	* SIZE EQUAL TO PIPE FOR UP TO 4", MINIMUM 4" FOR PIPES 6" AND LARGER.
FCO	FLOOR CLEAN OUT	FLOOR	-	ZURN	ZN1400(*)	COATED CAST IRON	POLISHED BRONZE	-	-	-	*	-	* SIZE EQUAL TO PIPE FOR UP TO 4", MINIMUM 4" FOR PIPES 6" AND LARGER.
FD-1	FLOOR DRAIN FINISHED AREAS	FLOOR	-	ZURN	ZB415-NL-P	COATED CAST IRON	POLISHED BRONZE	-	-	-	*	‡	* SIZE TO PIPE, 3" MINIMUM, 4" POLISHED BRONZE TOP, TRAP PRIMER. ‡NOTE 4.
FPWH-1	FREEZEPROOF WALL HYDRANT	WALL	-	ZURN	Z1320XL	BRONZE	NIKALOY SATIN	3/4"	-	-	-	-	INTEGRAL VACUUM BREAKER, SPARE CONTROL KEY
HD	HUB DRAIN	FLOOR	-	ZURN	Z-211-S	COATED CAST IRON	NIKALOY SATIN	-	-	-	3"	-	3" NO-HUB, TRAP PRIMER, SEDIMENT BUCKET.
L-1	LAVATORY	WALL HUNG	33-3/8"	KOHLER	K-1728 "CHESAPEAKE"	VITREOUS CHINA	WHITE	1/2"	1/2"	1 1/4"	1 1/2"	1 1/4"	K-7605-P SUPPLIES, K-7131-A OFFSET DRAIN, K-8998 P-TRAP, K-15243-4RA-CP FAUCET & GRID DRAIN, ZURN-1231 FLOOR MOUNT CARRIER. SEE NOTE #1.
L-2	ADA LAVATORY	WALL HUNG	33-3/8"	KOHLER	K-1728 "CHESAPEAKE"	VITREOUS CHINA	WHITE	1/2"	1/2"	1 1/4"	1 1/2"	1 1/4"	K-7605-P SUPPLIES, K-7131-A OFFSET DRAIN, K-8998 P-TRAP, K-15243-4RA-CP FAUCET & GRID DRAIN, ZURN-1231 MOUNT CARRIER. SEE NOTES #1 & #2.
UR-1	URINAL	WALL HUNG	24"	KOHLER	K-4991-ET "BARDON"	VITREOUS CHINA	WHITE	3/4"	-	-	2	1 1/2"	SLOAN ROYAL 186-0.5 FLUSH VALVE, ZURN Z1221 FLOOR MOUNT CARRIER
UR-2	ADA URINAL	WALL HUNG	17"	KOHLER	K-4991-ET "BARDON"	VITREOUS CHINA	WHITE	3/4"	-	-	2	1 1/2"	SLOAN ROYAL 186-0.5 FLUSH VALVE, ZURN Z1221 FLOOR MOUNT CARRIER
WC-3	FLUSH VALVE WATER CLOSET 1.6 GPF	FLOOR	17.5"	KOHLER	K-96057 "HIGHCLIFF"	VITREOUS CHINA	WHITE	1"	-	3"	4"	2"	K-4731-C SEAT, SLOAN ROYAL 111-1.28 FLUSH VALVE, COMFORT HEIGHT
WC-4	ADA FLUSH VALVE WATER CLOSET 1.6 GPF	FLOOR	17.5"	KOHLER	K-96057 "HIGHCLIFF"	VITREOUS CHINA	WHITE	1"	-	3"	4"	2"	K-4731-C SEAT, SLOAN ROYAL 111-1.28 FLUSH VALVE
WCO	WALL CLEAN OUT	WALL	-	ZURN	Z1446	COATED CAST IRON	POLISHED	-	-	-	*	-	* SIZE EQUAL TO PIPE FOR UP TO 4", MINIMUM 4" FOR PIPES 6" AND LARGER.

NOTES:
1. THE USE OF MIXING VALVES AND ANTI-SCALD DEVICES ON ALL OUTLETS INTENDED FOR PEOPLE TO HAVE DIRECT CONTACT WITH POTABLE HOT WATER IS REQUIRED TO PREVENT SCALD INJURY. FIXTURE OUTLETS MUST BE 100" MINIMUM, AND 110" MAXIMUM. PROVIDE AN ASSE 1070 COMPLIANT TEMPERATURE LIMITING VALVE EQUAL TO LEONARD 170D-LF OR AS REQUIRED FOR TO FIXTURE SPECIFIED.
2. PROVIDE UNDERSINK PROTECTION FOR WATER STOPS/SUPPLIES AND DRAIN PIPING. UNDERSINK PROTECTION MAY BE OMITTED IF SUPPLIES, STOPS AND P-TRAP ARE CONCEALED BY CABINETRY. SEE ARCHITECTURAL FOR SINK COUNTER SPECIFICATIONS.
3. PROVIDE FLOOR DRAINS WITH FUNNEL TOP THAT SERVE FLOWING WATER/SEWAGE PIPED AND TURNED DOWN ABOVE DRAIN WITH AIR GAP. PROVIDE FLOOR SINKS WITH 1/4, 1/2 OR 3/4 OPEN TOP AS REQUIRED.
4. FLOOR DRAINS AND OTHER FIXTURES AS APPLICABLE MAY BE SHOWN AS WET VENTED, CIRCUIT VENTED, OR A COMBINATION WASTE/VENT. CONTRACTOR SHALL PROVIDE ADDITIONAL VENTS AS REQUIRED FOR LOCAL ORDINANCES OR PRACTICES. ADDITIONALLY SANITARY SEWER LINES SHALL HAVE 3" VTR BEFORE EXITING THE BUILDING.

WATER HAMMER ARRESTOR SCHEDULE				
TAG	MANUFACTURER/ MODEL #	PDI SIZE	WSFU	AIR CHAMBER VOLUME (in ³)
WHA"A"	ZURN #1250XL-A	A	1-11	3.5
WHA"B"	ZURN #1250XL-B	B	12-32	4.3
WHA"C"	ZURN #1250XL-C	C	33-60	6.5
WHA"D"	ZURN #1250XL-D	D	61-113	10.0
WHA"E"	ZURN #1250XL-E	E	114-154	22.4
WHA"F"	ZURN #1250XL-F	F	155-330	34.4

KITCHEN EQUIPMENT SCHEDULE										
TAG	TYPE	MANUFACTURER	MODEL NUMBER	MATERIAL	CW	HW	VENT	GAS (MBTU)	GAS CONN	REMARKS
①	DRINK COOLER	AVANTCO	GDC-49-HC	COATED STEEL	-	-	-	-	-	-
②	BURNER, GRIDDLE, AND OVEN	COOKING PERFORMANCE GROUP	S60-G36-L	-	-	-	-	240	3/4"	OPEN TOP BURNERS, 36" GRIDDLE
③	REACH-IN FREEZER	AVANTCO	A-49F-HC	STAINLESS STEEL	-	-	-	-	-	-
④	COUNTERTOP FRYER	COOKING PERFORMANCE GROUP	FCPG30	STAINLESS STEEL	-	-	-	53	3/4"	-
⑤	REACH-IN REFRIGERATOR	AVANTCO	SS-2R-G-HC	STAINLESS STEEL	-	-	-	-	-	-
⑥	CHEST FREEZER	BY OWNER	-	-	-	-	-	-	-	-
⑦	ICE MACHINE W/ STORAGE BIN	BY OWNER	-	-	-	-	-	-	-	-
⑧	LAYOUT TABLE	BY OWNER	-	-	-	-	-	-	-	-
⑨	EQUIPMENT TABLE	BY OWNER	-	-	-	-	-	-	-	-
⑩	24" BUILT IN COUNTER W/ SHELF	BY OWNER	-	-	-	-	-	-	-	-
⑪	STORAGE SHELF UNIT	BY OWNER	-	-	-	-	-	-	-	-
⑫	3 COMPARTMENT SINK	BY OWNER	-	-	-	-	-	-	-	-
⑬	HAND SINK	BY OWNER	-	-	-	-	-	-	-	-
⑭	SERVING COUNTER W/ SHELF BELOW	BY OWNER	-	-	-	-	-	-	-	-
⑮	RECEIVING COUNTER	BY OWNER	-	-	-	-	-	-	-	-

NOTES:
1. ALL EQUIPMENT NOT LISTED. CONTRACTOR TO VERIFY CONNECTIONS, SIZE, AND TYPE WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR UTILITY CONNECTION HEIGHTS.
2. INDIRECT DRAIN PIPING IS TO BE BRACED COPPER OR CAST IRON.
3. PLUMBING CONTRACTOR TO PROVIDE GAS REGULATOR FOR ALL GAS KITCHEN EQUIPMENT. COORDINATE REGULATOR REQUIREMENTS WITH GAS EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.

ELECTRIC STORAGE WATER HEATER SCHEDULE										
TAG	TYPE	MFR.	MODEL	POWER INPUT RANGE (kW)	VOLT/PH/Hz	STORAGE (GAL)	RECOVERY GAL. @ ΔT	CONTROLS	ACCESSORIES / REMARKS	
WH-1	POINT-OF-USE	AO SMITH	DEN-66	5.0 kW	208/1ϕ/60	66	10 @ 60F	SINGLE STAGE THERMOSTATIC	NON-SIMULTANEOUS ELEMENTS, IMMERSION THERMOSTAT, MANUAL RESET HIGH LIMIT, GLASS-LINED TANK, FACTORY INSTALLED TERMINAL BLOCK, ASME T&P RELIEF VALVE, UL 174, ASHRAE 90.1	

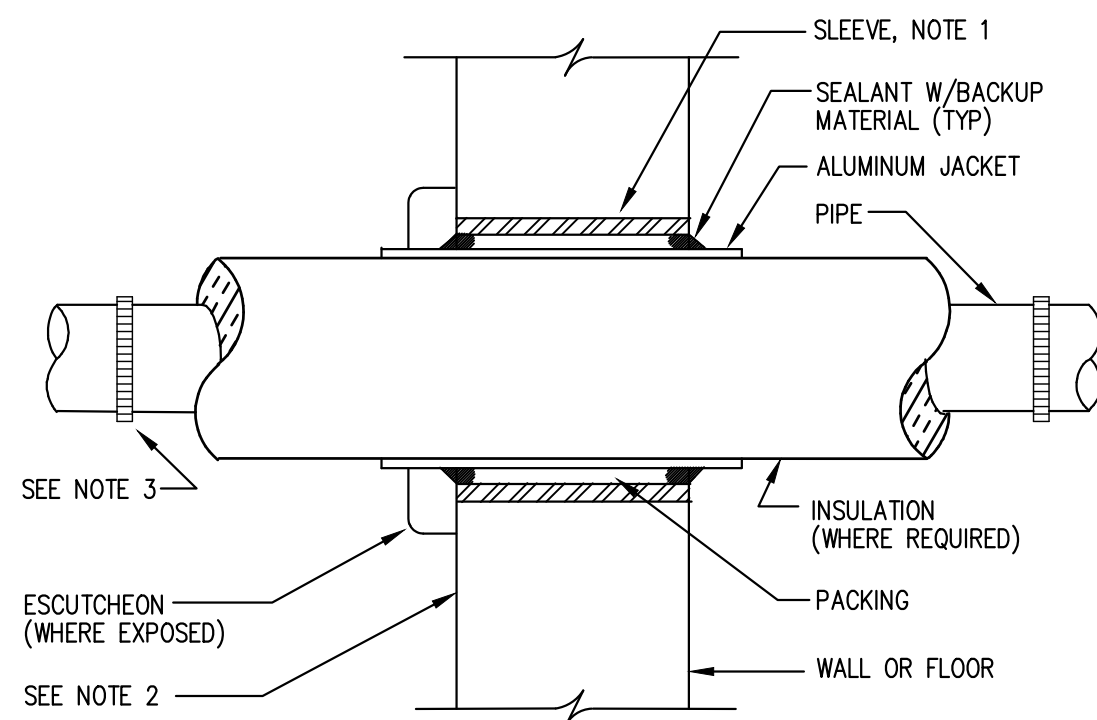
GENERAL NOTE:
1. DOMESTIC HOT WATER STORAGE TANKS MUST BE MAINTAINED AT 130°F-140°F TO PREVENT LEGIONELLA GROWTH.



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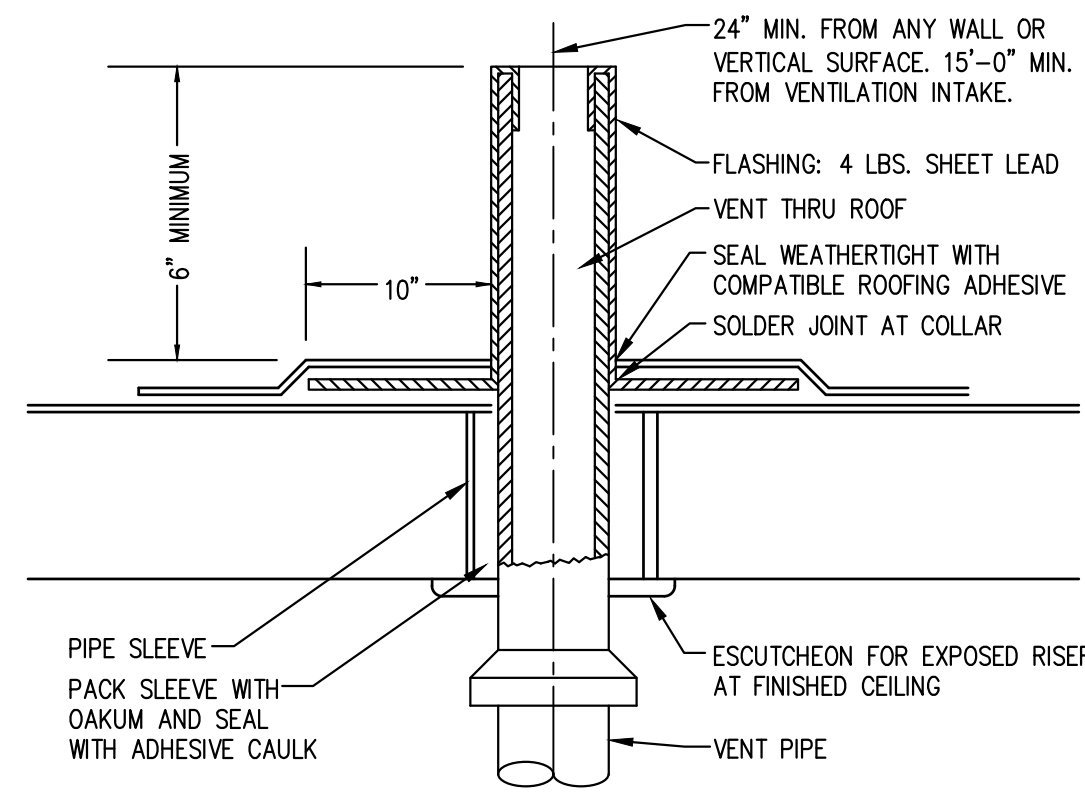
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	WORKING NUMBER: P3.01		DRAWING NUMBER: -									



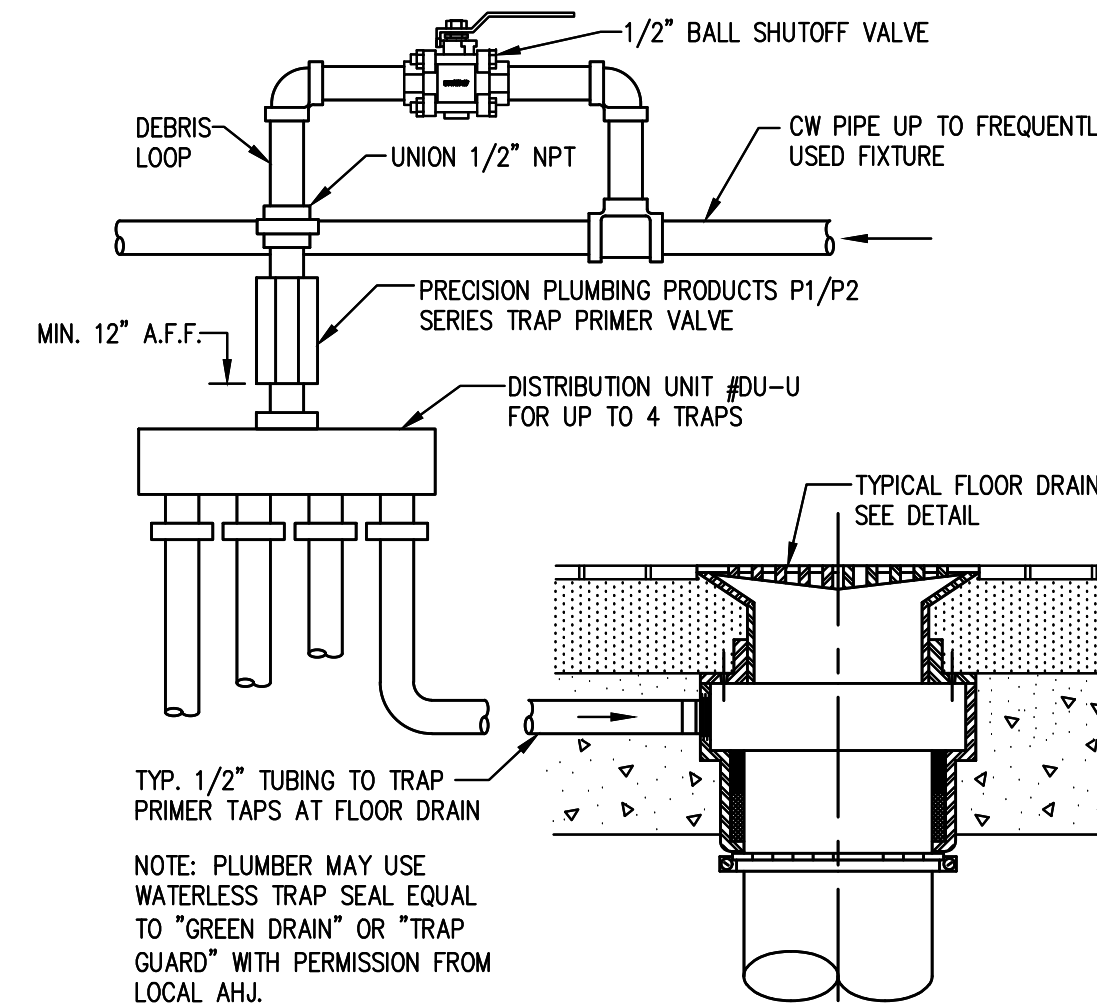
- NOTES:
1. IN BEARING WALLS, SLEEVE TO BE SCHEDULE 40 PIPE MATERIAL. SLEEVE AND PACKING MAY BE OMITTED FOR PIPE PASSING THRU GYPSUM WALL BOARD EXCEPT WHERE WALL IS FIRE RATED.
 2. THIS DETAIL IS FOR NON-FIRE RATED CONSTRUCTION. PIPE PENETRATIONS OF FIRE-RATED CONSTRUCTION SHALL BE FIRE STOPPED WITH U.L. CLASSIFIED SYSTEM.
 3. DWV PIPING PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL USE NO HUB CAST IRON PIPING WITH BANDS CONNECTED TO PVC PIPING.

A TYPICAL WALL PIPE SLEEVE DETAIL
P.302 SCALE: NONE



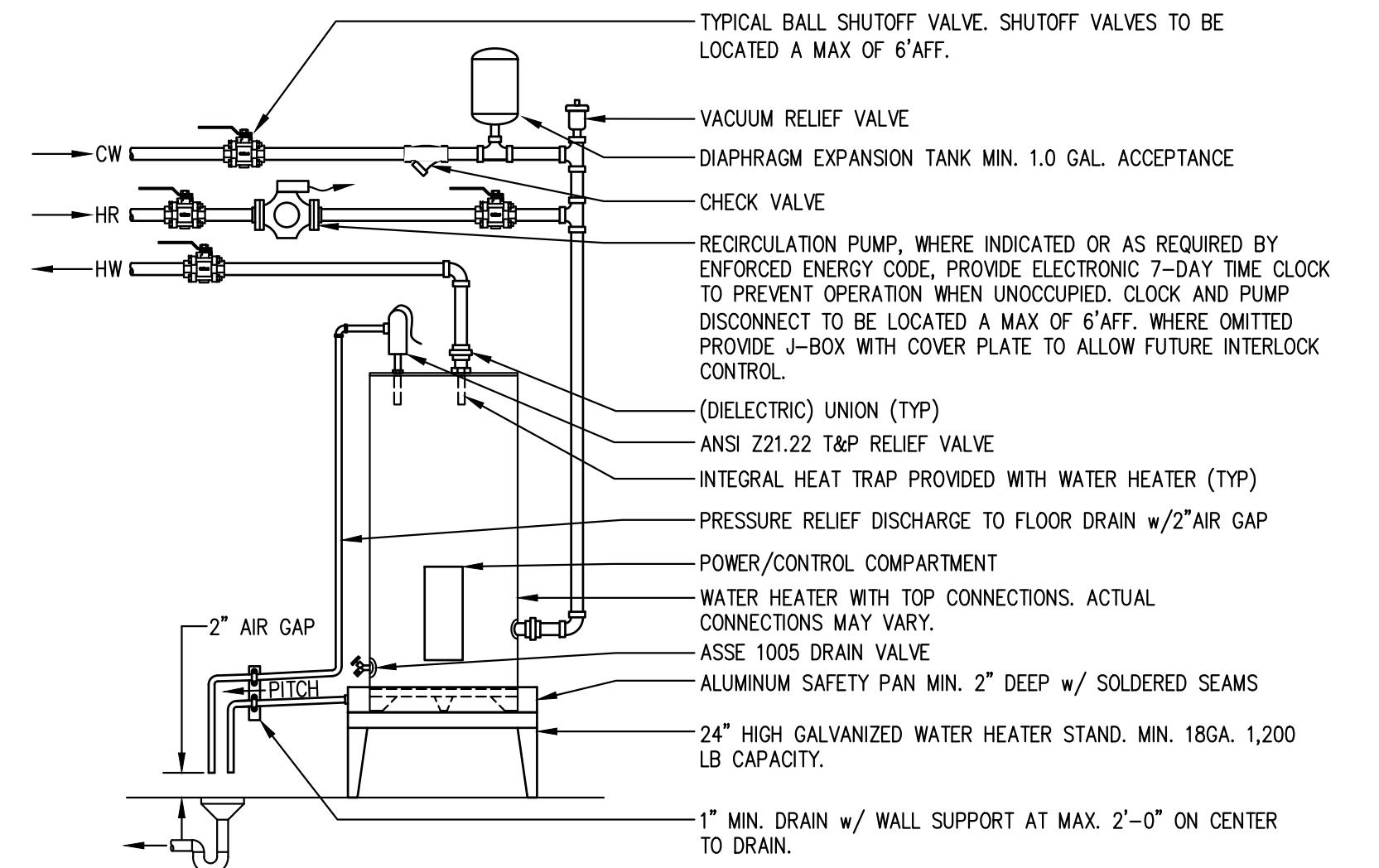
NOTE: DETAIL IS AN EXAMPLE OF PROPER INSTALLATION. ROOF CONSTRUCTION MAY VARY. COORDINATE FLASHING AND COMPATIBLE ROOF INSTALLATION WITH ROOF TYPE INSTALLED. REFER TO ARCHITECTURAL SECTIONS FOR ROOF CONSTRUCTION AND ADAPT AS REQUIRED.

B VENT THROUGH ROOF DETAIL
P.302 SCALE: NONE



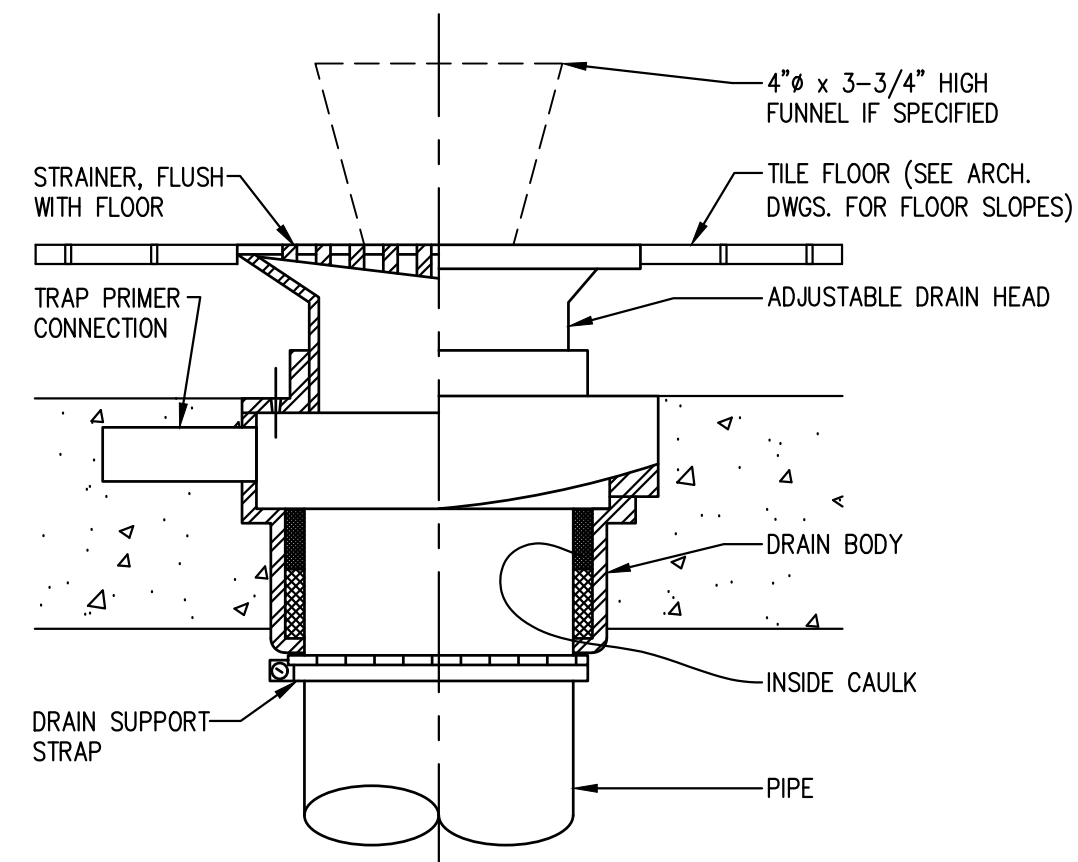
NOTE: PLUMBER MAY USE WATERLESS TRAP SEAL EQUAL TO "GREEN DRAIN" OR "TRAP GUARD" WITH PERMISSION FROM LOCAL A.H.J.

C TRAP PRIMER DETAIL
P.302 SCALE: NONE

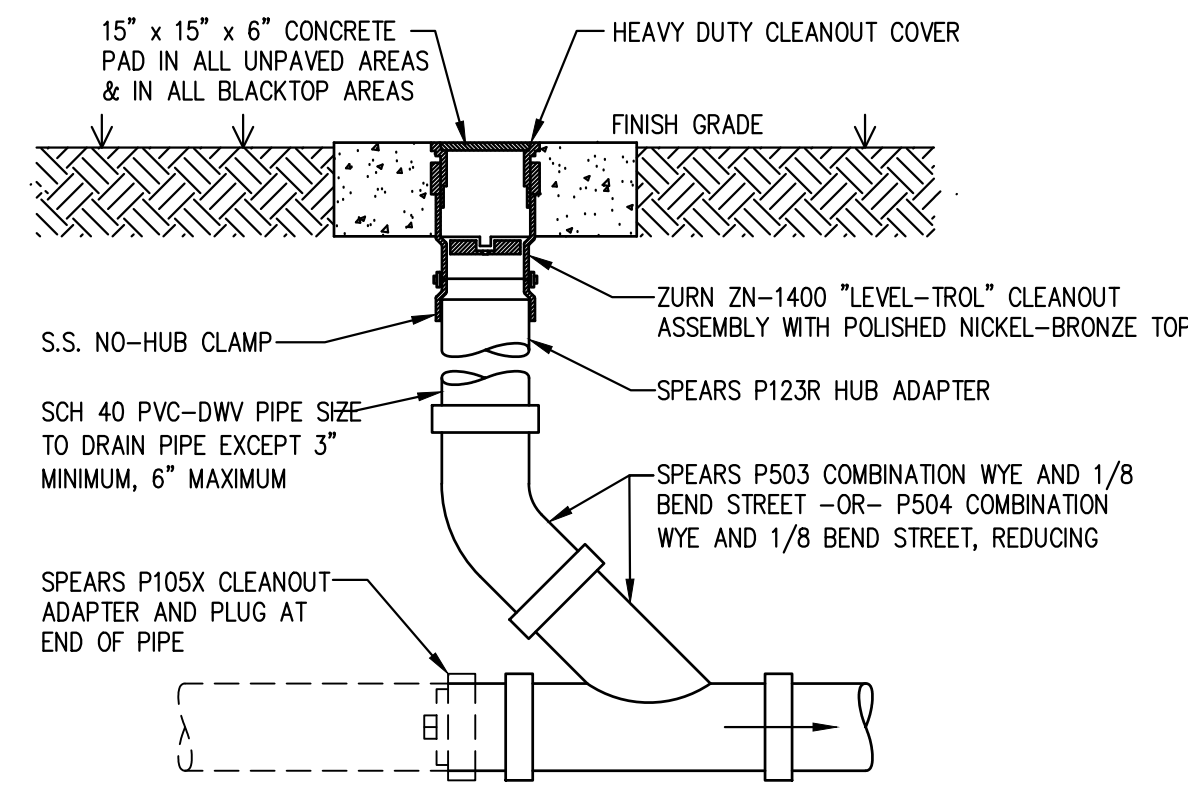


NOTE: DRAIN PIPING SHALL BE COPPER OR CPVC. DRAINS MAY TERMINATE AT BUILDING EXTERIOR AT MIN. 6" AND MAX. 24" ABOVE GRADE.

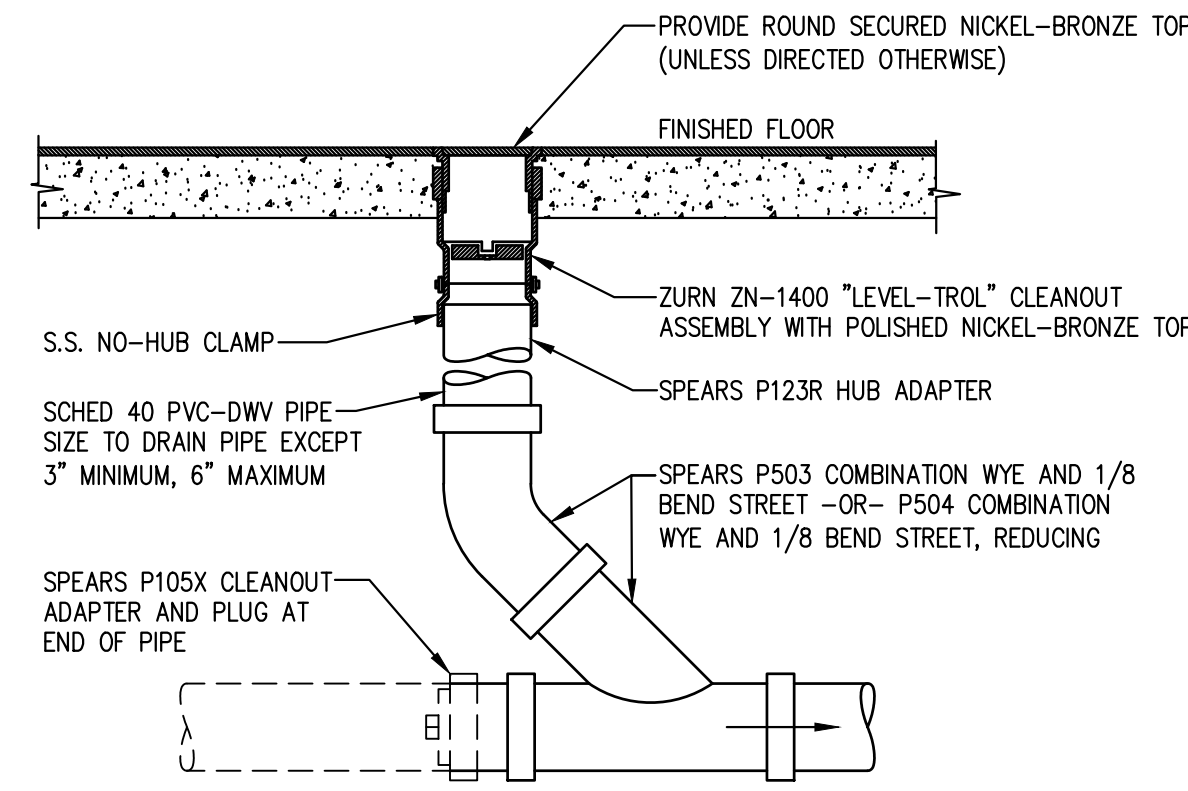
D WATER HEATER INSTALLATION DETAIL
P.302 SCALE: NONE



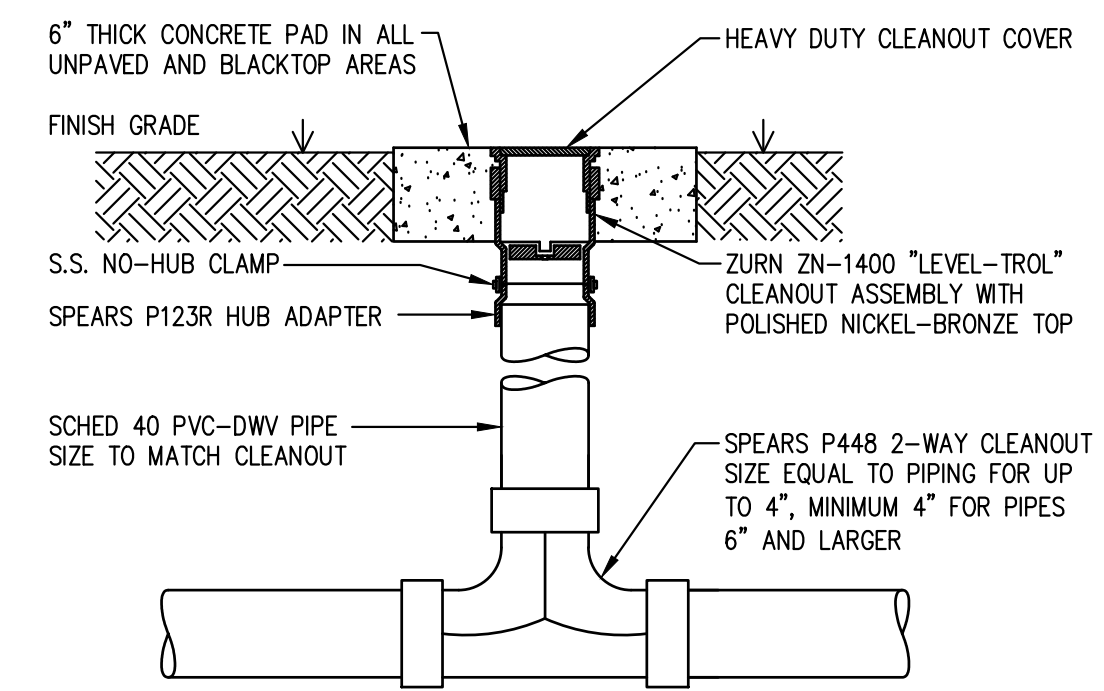
E FLOOR DRAIN DETAIL
P.302 SCALE: NONE



F EXTERIOR CLEANOUT DETAIL
P.302 SCALE: NONE



G FINISHED FLOOR CLEANOUT DETAIL
P.302 SCALE: NONE



H 2 WAY EXTERIOR CLEANOUT DETAIL
P.302 SCALE: NONE

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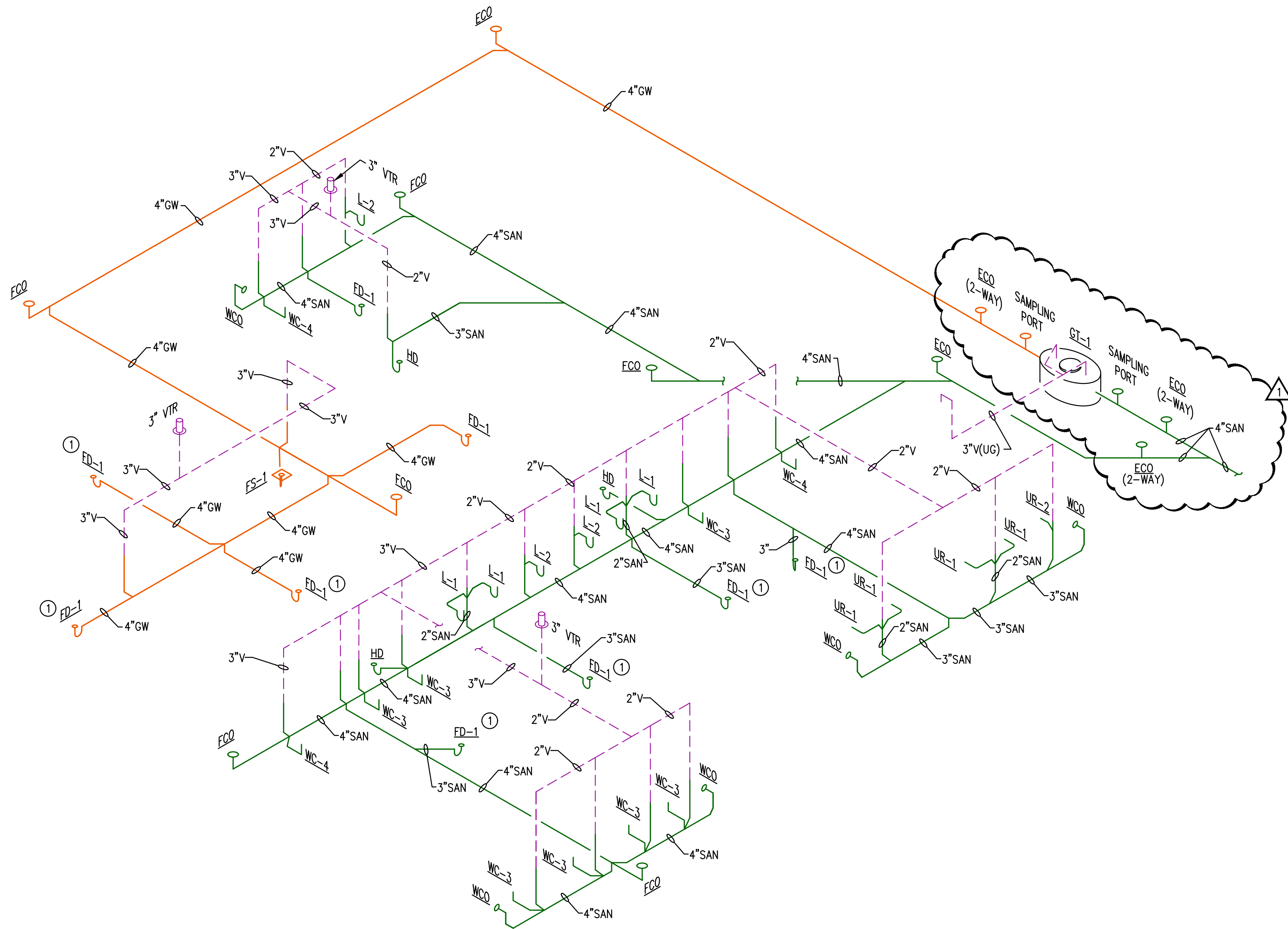
PLUMBING DETAILS

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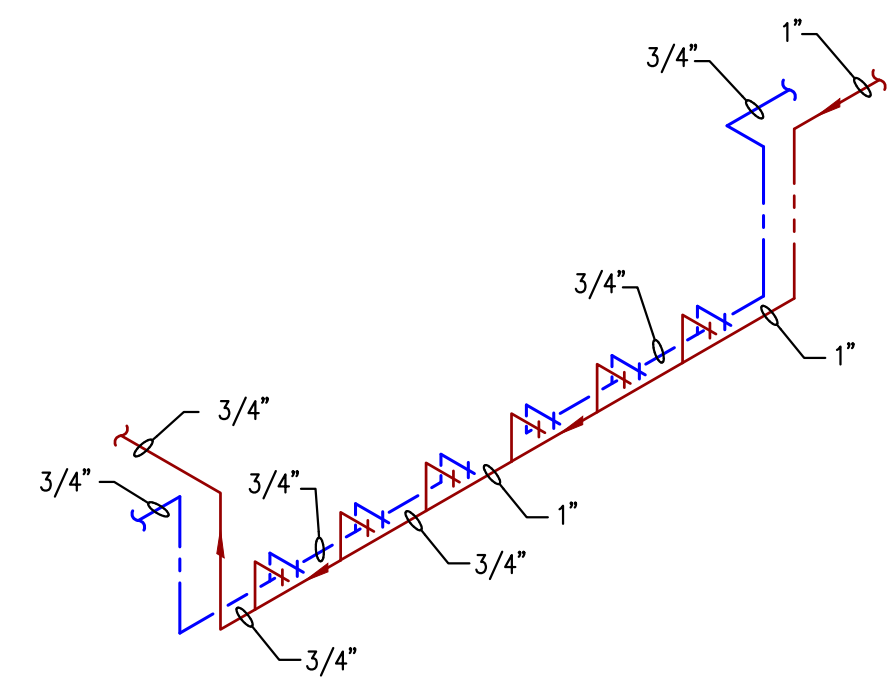
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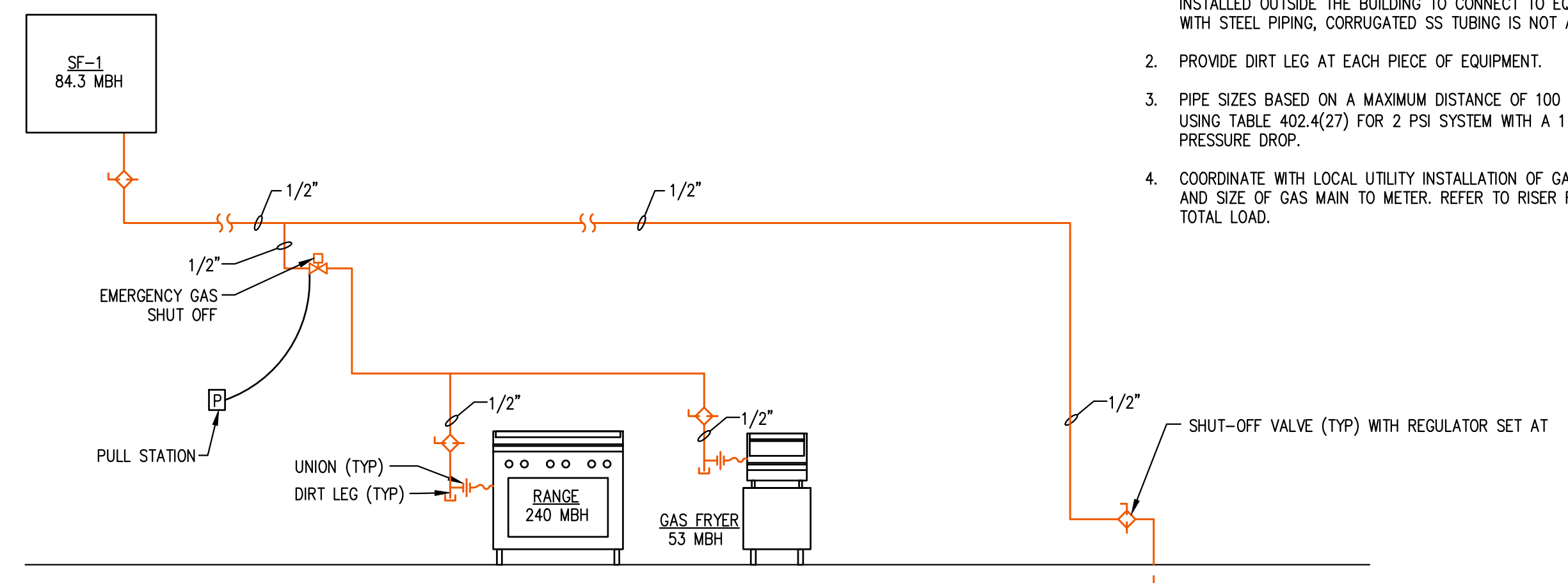
A SANITARY SEWER RISER
 P3.02 SCALE: NONE

- NOTES:**
1. ALL VENT PIPING IS 2" UNLESS NOTED OTHERWISE.
 2. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P3.01 FOR PIPING SIZES SERVING A SINGLE FIXTURE UNLESS NOTED OTHERWISE.

- KEYNOTES:**
- ① PROVIDE TRAP GUARD ON FLOOR DRAIN (WHERE ALLOWED BY AHJ) OR TRAP PRIMER (NOT SHOWN).

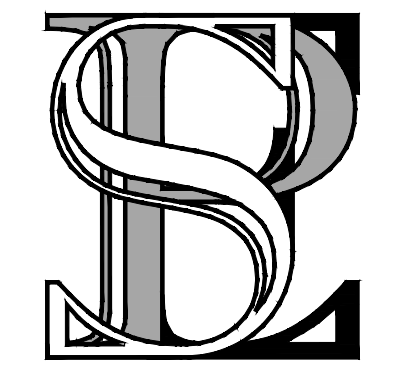


B WATER RISER DIAGRAM
 P3.02 SCALE: NONE



C LPG RISER DIAGRAM
 P3.03 SCALE: NONE

- GAS PIPING NOTES:**
1. PROVIDE FLEXIBLE CORRUGATED SS TUBING TO CONNECT EQUIPMENT TO STEEL PIPING FOR GAS PIPING INSTALLATIONS INSIDE THE BUILDING, SIZE PER IFGC 2021. GAS PIPING INSTALLED OUTSIDE THE BUILDING TO CONNECT TO EQUIPMENT WITH STEEL PIPING, CORRUGATED SS TUBING IS NOT ALLOWED.
 2. PROVIDE DIRT LEG AT EACH PIECE OF EQUIPMENT.
 3. PIPE SIZES BASED ON A MAXIMUM DISTANCE OF 100 FT USING TABLE 402.4(27) FOR 2 PSI SYSTEM WITH A 1 PSI PRESSURE DROP.
 4. COORDINATE WITH LOCAL UTILITY INSTALLATION OF GAS METER AND SIZE OF GAS MAIN TO METER. REFER TO RISER FOR TOTAL LOAD.



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JACKSON COUNTY BOARD OF SUPERVISORS



PLUMBING RISERS	
WORKING NUMBER: P4.01	DRAWING NUMBER: -

HVAC PROJECT GENERAL NOTES:

- SCOPE:** THE SCOPE OF THE WORK IS GENERALLY INDICATED BY THE DRAWINGS AND SUMMARIZED BY THIS SCOPE OF WORK. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS OF THE INSTALLATION OF MECHANICAL WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL CONDITIONS AND REQUIREMENTS FOR THE INSTALLATION OF THE WORK. WHERE INFORMATION REQUIRED TO PROVIDE A COMPLETE WORK IS OMITTED OR UNCLEAR, THE CONTRACTOR IS RESPONSIBLE FOR REQUESTING A CLARIFICATION FROM THE ENGINEER PRIOR TO SUBMISSION OF BIDS.
- CONTRACT DOCUMENTS:** THE ORDER OF PRECEDENCE SHALL BE 1) MORE STRINGENT OR RESTRICTIVE INTERPRETATION 2) PLANS ON DRAWINGS 3) NOTES ON DRAWINGS AND 4) SPECIFICATIONS (WHERE SPECIFICATIONS ARE ALSO INCLUDED).
- CODES & STANDARDS:** BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.
- MECHANICAL CODE COMPLIANCE:** COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE (IMC), ASHRAE 90.1-2013 OR APPLICABLE ENERGY CODE, AND ALL LOCAL AMENDMENTS AND ORDINANCES IN THE PERFORMANCE OF MECHANICAL WORK REQUIRED FOR THIS PROJECT. ENSURE THAT ALL OUTDOOR AIR INTAKES ARE 15'-0" OR MORE FROM EXHAUSTS, FLUES, PLUMBING VENTS AND OTHER SOURCES OF CONTAMINATION. ALL COMBUSTIBLE MATERIALS INCORPORATED INTO THE PROJECT SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD AND 50 SMOKE DEVELOPED.
- DEVIATIONS:** CONTRACTOR SHALL NOT USE SCALE OFF DRAWINGS TO OBTAIN DIMENSIONS, SIZES, ETC. ANY TAKE-OFF INFORMATION THAT IS SCALED FROM DRAWINGS IS AT CONTRACTOR'S RISK, ESPECIALLY REDUCE-SIZED PRINTS. PLANS NOTED AS SUCH ARE DRAWN TO SCALE, TYPICALLY INCLUDING ALL EQUIPMENT, DUCT WORK, DEVICES, ETC. AND CONTRACTOR SHALL SUBMIT REQUEST FOR INFORMATION (RFI) SHOULD ANY DISCREPANCIES OR AMBIGUITIES BE FOUND. ANY REVISION TO SYSTEM DESIGNS, INCLUDING PIPING, EQUIPMENT, DUCTWORK, MATERIALS, OR USING A FITTING OR ELBOW OTHER THAN BASIS OF DESIGN, SHALL BE SUBMITTED AS AN RFI FOR ARCHITECT/ENGINEER APPROVAL IN ADVANCE OF INSTALLATION (E.G. RESIZING RECTANGULAR DUCTWORK AS ROUND). RFIS MAY BE SKETCHES, HOWEVER REVISIONS WILL REQUIRE SHOP DRAWINGS DONE IN CAD. WHERE ENTIRE SYSTEM IS INTENDED TO BE REDESIGNED, CONTRACTOR SHALL GIVE NOTICE OF INTENT TO HAVE A LICENSED PROFESSIONAL ENGINEER TAKE OVER INSTALLED DESIGN.
- PLAN TERMS AND DEFINITIONS:** THE FOLLOWING TERMS USED SHALL BE DEFINED AS FOLLOWS IN THE DOCUMENTS HEREIN:
 - INSTALL:** UNLOAD, UNPACK, APPLY, AND CONNECT ITEM, AS APPLICABLE. RELOCATED OR FURNISHED BY OTHERS, AS APPLICABLE.
 - PROVIDE:** FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE, AS APPLICABLE IN EACH INSTANCE.
- COORDINATION:** COORDINATE THE MECHANICAL WORK WITH THE WORK OF THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. OBTAIN INFORMATION REGARDING THE ROUGH-IN AND FINAL CONNECTION REQUIREMENTS FOR EQUIPMENT TO BE PROVIDED BY THE OWNER OR OTHER CONTRACTORS PRIOR TO COMMENCING WORK. OBTAIN FINAL LOCATIONS OF CEILING GRIDS, LIGHTING FIXTURES, SPRINKLERS, PIPING AND OTHER COMPONENTS THAT WILL AFFECT THE LAYOUT OF HVAC DUCTWORK AND TERMINAL DEVICES PRIOR TO COMMENCING INSTALLATION WORK.
- ROOF SUPPORTS AND PENETRATIONS:** PROVIDE MANUFACTURED ROOF CURBS AND EQUIPMENT/PIPE SUPPORTS (MIN. 11" HIGH) AS MANUFACTURED BY PATE CURB COMPANY, OR EQUIVALENT, TO SUPPORT ROOF MOUNTED EQUIPMENT AND HORIZONTAL PIPING. PROVIDE HEAVY DUTY TREAD PADS UNDER PIPE SUPPORTS WHERE SUPPORTS SIT ON ROOFING. PROVIDE MANUFACTURED PIPE PORTALS (MIN. 8" HIGH) WITH NEOPRENE CAPS AT ALL PIPING PENETRATIONS THROUGH THE ROOF. SECURE CURBS, SUPPORTS, AND PORTALS TO THE ROOF DECK STRUCTURE. FLASH, COUNTER FLASH, AND SEAL ALL CURBS, SUPPORTS AND PORTALS TO ACHIEVE A WATERIGHT SEAL AT THE ROOF. COORDINATE ALL WORK WITH APPLICABLE ROOFING CONTRACTOR WHERE ROOFING IS EXISTING TO REMAIN. COORDINATE WITH OWNER ANY EXISTING ROOF WARRANTY. ALL ROOF WORK SHALL BE COMPLIANT WITH NEW OR EXISTING ROOF WARRANTIES.
- CUTTING & PATCHING:** CONTRACTOR SHALL PROVIDE SLEEVES, CURBS, AND PORTALS AS NECESSARY TO MINIMIZE THE NEED TO CUT STRUCTURAL COMPONENTS. PROVIDE LABOR, EQUIPMENT AND SPECIAL SERVICES NECESSARY TO CREATE OPENINGS NECESSARY FOR THE PASSAGE OF PIPING, DUCTWORK, AND OTHER MECHANICAL WORK. APPLY A FINISH PATCH TO CLOSE OFF UNUSED PORTIONS OF OPENINGS USING MATERIALS THAT ARE SUBSTANTIALLY SIMILAR TO THAT OF THE ADJACENT STRUCTURE. NO STRUCTURAL COMPONENTS MAY BE CUT WITHOUT 24-HOUR PRIOR WRITTEN APPROVAL OF ARCHITECT/ENGINEER.
- MATERIALS, EQUIPMENT, AND SUBMITTALS:** PROVIDE MATERIALS AND EQUIPMENT OF THE TYPE SIZE, CAPACITY, AND QUANTITY INDICATED BY THESE DOCUMENTS. WHERE MATERIAL SPECIFICATIONS ARE NOT INDICATED, PROVIDE MATERIALS THAT COMPLY WITH THE HIGHEST QUALITY INDUSTRY STANDARD. IF NO SUCH STANDARD EXISTS, CONTACT THE ARCHITECT/ENGINEER TO ASCERTAIN THE APPROPRIATE SPECIFICATION.
- SUBSTITUTIONS:** THE MANUFACTURER AND MODEL NUMBER FOR MANUFACTURED PRODUCTS ARE INDICATED FOR THE PURPOSE OF CONVEYING THE BASIS OF DESIGN. SUBMITTALS OF EQUIVALENT PRODUCTS OF OTHER MANUFACTURER'S WILL BE CONSIDERED ONLY IF THEY MEET THE ESSENTIAL SPATIAL AND PERFORMANCE REQUIREMENTS SET FORTH. THE CONTRACTOR WILL PAY THE COST OF ANY ADAPTATION WORK REQUIRED OF OTHER TRADES RESULTING FROM THE EMPLOYMENT OF THE SUBSTITUTED PRODUCT. THE ENGINEER WILL REVIEW THE SUITABILITY OF A PROPOSED SUBSTITUTION UP TO 3 DAYS PRIOR TO BID TIME. ASSURANCE OF SUITABILITY WILL, IN NO WAY, RELIEVE THE CONTRACTOR OF ANY COSTS ASSOCIATED WITH ADAPTING THE PRODUCT TO THE PROJECT DESIGN.

- HVAC EQUIPMENT:** INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE AN EFFECTIVE MEANS OF ISOLATING VIBRATIONS GENERATED BY EQUIPMENT FROM DUCTWORK, PIPING, CONDUITS, AND THE BUILDING STRUCTURE. PROVIDE ALL EQUIPMENT (OUTDOOR, ROOFTOP, ABOVE CEILING, OR IN MECH ROOM) AND REMOTE ACCESSORIES (E.G. CONTROL PANEL, DISCONNECT SWITCH, ETC.) WITH PHENOLIC NAME PLATE LABELS MINIMUM 2" TALL WITH 1" SERIF FONT LETTERS WITH CONTRASTING BACKGROUND. MECHANICAL CONTRACTOR SHALL VERIFY TAG MATCHES DISCONNECT SWITCH AND CIRCUIT BREAKER IN PANEL.
- HVAC EQUIPMENT ON ROOF:** PROVIDE MANUFACTURED CURBS, EQUIPMENT, RAILS, PORTALS, PIPE SUPPORTS AND OTHER ROOF MOUNTING DEVICES AS NECESSARY. SECURE MOUNT THE EQUIPMENT WHILE PROTECTING THE ROOF FROM DAMAGE. FLASH, COUNTER-FLASH AND SEAL ALL OPENINGS TO ENSURE A WATERIGHT ENVELOPE. FASTEN UNIT AND CURBS TO ROOF STRUCTURE AS NECESSARY TO WITHSTAND A 160 MPH WIND LOAD.
- DIIELECTRIC BARRIER:** WHERE METAL PIPING OR DUCTS ARE DIRECTLY SECURED TO OR BY A DISSIMILAR METAL IN A HUMID ENVIRONMENT PROVIDE A DIELECTRIC BARRIER BETWEEN THE METALS TO PREVENT ACCELERATED CORROSION. DIELECTRIC BARRIER SHALL BE ANY NON-CONDUCTIVE MATERIAL SUITED FOR THE ENVIRONMENT AND AT LEAST 3MM THICK. FOR EXAMPLE, 3MM NEOPRENE MAY SERVE AS A BARRIER BETWEEN A STAINLESS STEEL HANGAR SUPPORTING GALVANIZED STEEL PIPING.
- CONTROLS:** PROVIDE ALL CONTROL DEVICES, CONDUIT, CONDUCTORS, AND ACCESSORIES REQUIRED TO FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM OF TEMPERATURE CONTROLS TO ACCOMPLISH THE INDICATED SEQUENCE OF OPERATION. IN THE ABSENCE OF SEQUENCE PROVIDED, FOLLOW RECOMMENDED SEQUENCE OF OPERATION PROVIDED IN EQUIPMENT LITERATURE.
- FIELD INSPECTIONS:** A MINIMUM OF (2) FIELD INSPECTIONS ARE REQUIRED TO BE PERFORMED ON ALL HVAC INSTALLATIONS. CONTRACTOR SHALL NOTIFY ARCHITECT OR ENGINEER OF RECORD ONCE HVAC EQUIPMENT HAS BEEN INSTALLED AND/OR A MAJORITY OF THE HVAC SYSTEMS (DUCTWORK, PIPING, ETC.) HAS BEEN INSTALLED TO ALLOW FOR A PROGRESS INSPECTION BY ENGINEER. FINAL INSPECTION WILL BE PERFORMED AFTER ALL EQUIPMENT IS COMMISSIONED AND ALL ITEMS HAVE BEEN ADDRESSED FROM INITIAL FIELD INSPECTION.
- SYSTEMS COMMISSIONING:** PROVIDE THE SERVICES OF A TECHNICIAN, QUALIFIED AND EXPERIENCED IN THE FIELD OF HVAC SYSTEMS COMMISSIONING TO INITIATE, QUANTIFY, ADJUST AND BALANCE THE OPERATION OF THE INSTALLED SYSTEMS. PERFORM COMMISSIONING IN ACCORDANCE WITH LEVEL 1 AND 2 ASHRAE GUIDELINE 0-2013 "THE HVAC COMMISSIONING PROCESS". COMMISSIONING TO INCLUDE (1) FACTORY ACCEPTANCE TESTING (2) SITE ACCEPTANCE, I.E. DOCUMENTATION BY CONTRACTOR & (3) PREFUNCTIONAL TESTING AND START-UP VERIFICATION BY VENDOR, AUTHORIZED FACTORY AGENT, QUALIFIED TAB CONTRACTOR AND/OR COMMISSIONING AGENT. CONTRACTOR SHALL INCLUDE PRELIMINARY COMMISSIONING PAPERWORK CHECKLIST IN SUBMITTALS. AT PROJECT CLOSEOUT OR SUBSTANTIAL COMPLETION THE COMMISSIONING CHECKLIST SHALL BE INCLUDED IN DOCUMENTATION WITH ALL COMPLETED ITEMS MARKED ACCORDINGLY. CHECKLIST SHALL INCLUDE PROVISION FOR AND BE SIGNED BY AGENTS FOR OWNER, CONTRACTOR, ARCHITECT/ENGINEER AND, WHERE APPLICABLE, THE COMMISSIONING AGENT. REMAINING UNCHECKED ITEMS SHALL BE MOVED BY CONTRACTOR TO FINAL PUNCH LIST.
- AS-BUILT PLANS:** CONTRACTOR SHALL MAINTAIN RED LINE MARKUPS OF AS-BUILT DRAWINGS ON SITE AT ALL TIMES. CONTRACTOR SHALL PRESENT PLANS TO ENGINEER AT ALL SITE VISITS (SCHEDULED OR UNSCHEDULED). AT PROJECT CLOSE OUT, CONTRACTOR SHALL PROVIDE PDF'S OF ALL REVISED PLANS TO ARCHITECT/ENGINEER GENERATED WITH COMPUTER EDITS IN PDF OR AUTOCAD. REVISIONS ARE TO BE CLOUDED.
 - IDENTIFICATION — UTILITIES: PROVIDE EQUIPMENT UTILITY CONNECTIONS WITH PHENOLIC NAME PLATES INDICATING THE UTILITY, SIZE AND SOURCE UNLESS OBVIOUS OR IMPLIED. EXCEPTIONS: CONDENSATE DRAIN. PROVIDE WITH 1" LETTERING, OR SIZE AS REQUIRED. EXAMPLES:
 - 208V 3PH — PANEL HP-1 CKT 22, 24, 26
 - 2" NAT.GAS
 - 2"CHS — SOUTH PLANT
 - 1"HWR — MECH 13
 - TAB:** TESTING, ADJUSTING AND BALANCING (TAB) WORK SHALL BE PERFORMED FOR ALL MECHANICAL SYSTEMS AND MEET ALL OF THE FOLLOWING:
 - WORK SHALL BE PERFORMED BY A CONTRACTOR (OR FIRM) THAT HAS CURRENT CERTIFICATION BY AABC, NEBB OR TABB.
 - TAB CONTRACTOR SHALL HAVE COMPLETED A MINIMUM OF FIVE PROJECTS FOR SP ENGINEERING SATISFACTORILY, OR SUBMIT THE FOLLOWING IN ADVANCE OF BID:
 - CURRENT CERTIFICATION CREDENTIALS.
 - FIVE HVAC CONTRACTOR REFERENCES. PROVIDE COMPANY NAME, LOCATION, AND POINT OF CONTACT WITH DIRECT/CELL PHONE NUMBER AND EMAIL.
 - FIVE PROJECT REFERENCES OF SIMILAR DESIGN AND EQUAL OR GREATER GROSS CAPACITY. PROVIDE PROJECT NAME, LOCATION, DATE COMMISSIONED, AND IF KNOWN THE MECHANICAL ENGINEER/FIRM.
 - TAB WORK SHALL BE DONE WITH A CERTIFIED TAB TECHNICIAN ON SITE A TIME OF TAB WORK.
 - SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO THE FOLLOWING "TARGET" MARGINS, AS INDICATED ON DRAWINGS, SCHEDULES, SPECIFICATIONS AND/OR MANUFACTURER'S RECOMMENDATIONS AS APPLICABLE:
 - ALL HYDRONIC FLOW QUANTITIES TO WITHIN +/-10%.

- AIRFLOW STATIC PRESSURE DROPS TO WITH +/-10% OR 0.01", WHICHEVER IS GREATER.**
- AIR DEVICE AIR FLOWS +/-10% OR 5 CFM WHICHEVER IS GREATER.**
- EQUIPMENT AIR FLOWS +/-5% THROUGH 10,000 CFM, THEN +/-500 CFM THROUGH 20,000 CFM, AND +/-2.5% FOR EQUIPMENT 20,000+ CFM.**
- AMPLERAGES, PRESSURES, TIME DURATIONS, AND OTHER UNITS OF MEASUREMENTS TO WITHIN GREATER THAN 10% OR AS NOTED IN MANUFACTURERS GUIDELINES.**
- MECHANICAL AND TAB CONTRACTOR SHALL IN ADVANCE OF INSTALLATION/CONSTRUCTION PROVIDE PLAN REVIEW AND IDENTIFY ANY AN PERCEIVED CHALLENGES TO ACHIEVE "TARGET" FLOWS BY DESIGN. THROUGH RFI OR PRE CONSTRUCTION MEETING CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ADDITIONAL DAMPERS, VALVES, DRIVES, MOTORS OR OTHER DEVICES AND ACCESSORIES PERCEIVED TO BE REQUIRED TO REACH TARGET FLOW QUANTITIES. AT ENGINEER'S DISCRETION ENGINEER MAY RECOMMEND TO ARCHITECT OR OWNER A CHANGE ORDER FOR REVISIONS TO DESIGN AND/OR "TARGET" MARGINS MAY BE INCREASED, BUT WILL NOT BE INCREASED TO MORE THAN 10%.**
- CONTRACTOR SHALL ENGAGE TAB AS EARLY AND OFTEN AS POSSIBLE TO IDENTIFY, RECTIFY, AND ENGAGE ENGINEER AS REQUIRED TO ACHIEVE TARGET QUANTITIES WITHIN SPECIFIED MARGINS. CONTRACTOR SHALL NOT DELAY ENGAGEMENT OF TAB UNTIL NEAR END OF CONSTRUCTION, (E.G. JUST BEFORE FINAL INSPECTIONS ANTICIPATING NO ISSUES).**
- CONTRACTOR SHALL EMAIL ENGINEER WITH UPDATED INFORMAL SCHEDULE WITHIN TWO WEEKS OF TAB WORK. AT ENGINEER'S DISCRETION ENGINEER MAY WITNESS TAB PROCEDURES.**
- TAB REPORT SHALL INCLUDE THE FOLLOWING:**
 - EQUIPMENT IDENTIFICATION AND READINGS AS RECOMMENDED AND IN TABLE FORM IN ACCORDANCE WITH SECTION 5 OF THE NEBB 2015 (EIGHTH EDITION) PROCEDURAL STANDARD FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS.**
 - BUILDING FLOOR PLANS DRAWN IN CAD SHOWING AIR DEVICES WITH FINAL CFM AS LISTED IN TAB (APPLICABLE MECHANICAL ENGINEERING PLANS ARE AVAILABLE IN CAD ON REQUEST). PLANS SHALL BE SUBMITTED FULL SIZE IN ELECTRONIC (PDF) FORM, AND REDUCED SIZE (NOT TO SCALE) IS ACCEPTABLE FOR HARD COPY SUBMITTAL (MINIMUM 11x17).**
 - SUBMIT FINAL REPORT TO THE ARCHITECT WITHIN 10 DAYS OF THE COMPLETION OF BALANCING WORK.**
- MECHANICAL DEMONSTRATION:** MECHANICAL CONTRACTOR SHALL PROVIDE DEMONSTRATION AND INSTRUCTION ON HOW TO OPERATE HVAC SYSTEMS, THERMOSTAT, CONTROLS, ETC. TO THE OWNER, TENANT, GENERAL CONTRACTOR, AND/OR MAINTENANCE STAFF. TAB CONTRACTOR SHALL PROVIDE VIDEO OF DEMONSTRATION WITH CONTRACT CLOSEOUT DOCUMENTS.
- CONTRACT CLOSEOUT:** PROVIDE EVIDENCE THAT ALL CONTRACTUAL OBLIGATIONS HAVE BEEN MET, INCLUDING, BUT NOT NECESSARILY LIMITED TO, PROVIDING "AS-BUILT" DRAWINGS, SYSTEM COMMISSIONING REPORTS, OPERATING AND MAINTENANCE MANUALS, TRAINING OF PERSONNEL, FULLY EXECUTED PUNCHLIST, WARRANTIES, EXTENDED WARRANTIES, DEMONSTRATION VIDEO, AND OTHER DOCUMENTS THAT MAY BE PERTINENT TO THE MECHANICAL PORTION OF THE PROJECT.
- WARRANTY:** THE MECHANICAL CONTRACTOR SHALL PROVIDE A ONE (1) YEAR FULL PARTS AND LABOR WARRANTY THAT THE EQUIPMENT AND WORK PROVIDED AS PART OF THIS PROJECT BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP. WARRANTY BEGINS AT ACCEPTANCE OF FINAL PUNCH LIST ITEMS. MECHANICAL WORK INCLUDES BUT IS NOT LIMITED TO AIR DEVICES, BALANCING, DUCTS, INSULATION, ACCESSORIES, FANS, CONTROLS, SENSORS, ETC. CONTRACTOR SHALL PROVIDE THE PARTS, LABOR, AND REFRIGERANT AT ANY TIME DURING THE FULL WARRANTY PERIOD. ALL EQUIPMENT WITH COMPRESSORS SHALL HAVE A 5 YEAR COMPRESSOR PARTS ONLY WARRANTY PROVIDED BY THE MANUFACTURER. PROVIDE EVIDENCE OF ALL EXTENDED WARRANTIES AVAILABLE FROM THE EQUIPMENT MANUFACTURERS.

HVAC VENTILATION GENERAL NOTES:

- DUCTWORK:** FABRICATE AND INSTALL DUCTWORK, FITTINGS, CONNECTORS, HANGERS, AND DUCTWORK ACCESSORIES IN ACCORDANCE WITH THE RECOMMENDATIONS OF S.M.A.C.N.A. "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE", LATEST EDITION, USING THE 2" W.C. POSITIVE PRESSURE CHART, EXCEPT NO DUCTWORK SHALL BE LIGHTER THAN 24 GAUGE. SEAL ALL DUCTWORK SUBSTANTIALLY AIRTIGHT TO COMPLY WITH S.M.A.C.N.A. SEAL CLASS "A". CLEAR AIRWAY DUCT DIMENSIONS ARE INDICATED ON THE DRAWINGS. ALL DUCTS THAT CONVEY VAPOR-BEARING (>80% RH) AIR SHALL BE CONSTRUCTED OF NON-CORROSIVE MATERIALS, SEALED WATER-TIGHT AND PITCHED TO THE SOURCE AT NO LESS THAN 2% SLOPE. DUCTWORK FABRICATED FROM RIGID FIBERGLASS "DUCTBOARD" WILL NOT BE PERMITTED.
- DUCTBOARD ALTERNATE:** BASIS OF DESIGN IS METAL DUCT. DUCTBOARD IS NOT RECOMMENDED FOR THIS COMMERCIAL DESIGN. WHERE DIRECTED BY OWNER TO USE DUCT BOARD, CONTRACTOR MAY RESIZE DUCTS AT 1) 0.08"WC/100 FT (SUPPLY) AND 0.05"WC/100 FT (RETURN) USING TOOLS SPECIFICALLY ADJUSTED FOR THE INCREASED PRESSURE DROP OF DUCTBOARD, OR 2) CONTRACTOR MAY INCREASE THE WIDTH OF ALL INTERNAL DIAMETERS BY 2". CONTRACTOR MUST SUBMIT CLEAN PDF MARKUPS OF PLANS WITH UPDATED SIZES FOR APPROVAL PRIOR TO INSTALLATION.
- FLEXIBLE DUCTWORK:** THE CONTRACTOR MAY INSTALL UL 181 LISTED INSULATED (R-VALUE EQUAL TO ASSOCIATED SUPPLY AIR DUCT) FLEXIBLE AIR DUCT, BUT ONLY AS A CONNECTION TO SUPPLY AIR DEVICES, UNDER THE FOLLOWING CONDITIONS:
 - FLEXIBLE DUCTWORK IS CUT TO FIT LENGTH AND TAUT WITH 5% OR LESS ADDITIONAL LENGTH. NO EXCEPTIONS.
 - DO NOT EXCEED 4'-0" FOR FLEX DUCTS AT SIZE SHOWN PER PLANS. FLEXIBLE DUCT CAN BE EXTENDED UP TO THE MAXIMUM ALLOWED BY AHJ WITH AN INCREASE OF ONE NOMINAL SIZE.
 - EACH CHANGE IN DIRECTION AT OR NEAR 90° SHALL HAVE A FLEXMASTER 41650 (OR EQUAL) 90° SUPPORT ELBOW SECURED FROM STRUCTURE TO MAINTAIN PROPER SHAPE OF ELBOW. REFER TO DUCT BRANCH DETAIL. SUPPORT ELBOW MAY BE USED IN LIEU OF HARD 90° ELBOW SHOWN IN DETAIL. THE CENTERLINE RADIUS OF BENDS IN THE DUCT DO NOT EXCEED 1.5 DUCT DIAMETERS. A 1.5" WIDE SUPPORT SADDLE IS PROVIDED AT EVERY BEND EXCEEDING 30° AND FOR EVERY 3'-0" OF HORIZONTAL RUN.
 - FLEXIBLE AIR DUCTS SHALL NOT BE USED WHERE THE DESIGN TEMPERATURE EXCEEDS 125°F.

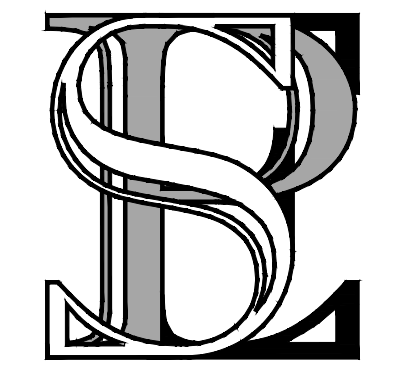
- ATTACHMENTS ARE ONLY TO RIGID METAL COLLARS WITH A MINIMUM FLANGE DEPTH OF 2" AND A FORMED BEAD WITHIN 1" OF THE END. THE INNER CORE DUCT IS ATTACHED TO THE RIGID METAL COLLAR WITH 3-M DUCT SEALANT AND A METAL DRAW-BAND. THE INSULATION MATERIAL AND THE OUTER VAPOR BARRIER JACKET (IF PRESENT) IS EXTENDED TO THE FULL DEPTH OF THE COLLAR AND THE VAPOR BARRIER IS ADHERED TO THE VAPOR BARRIER OF THE CONNECTED DUCT OR AIR DEVICE USING A MASTIC PLUS EMBEDDED FABRIC SYSTEM APPROPRIATE FOR THE MATERIALS AND COMPLIANT WITH THE REQUIREMENTS OF UL 181.**
- USE OF FLEX ON NEGATIVE PRESSURE DUCT (RETURN, EXHAUST, ETC.) IS NOT PERMITTED.**
- EXTERIOR DUCTWORK:** EXPOSED SUPPLY AND RETURN DUCTS LOCATED OUTSIDE BUILDING PERIMETER SHALL BE STANDARD DUAL WALL GALVANIZED STEEL DUCT WITH 2" THICK, MIN. R-8.0 SOLID FIBERGLASS INSULATION AND PERFORATED INNER LINER. WRAP EXTERIOR METAL DUCTS WITH POLYGUARD "ALUMAGUARD" ON TOP AND SIDES AND USE "ALUMAGUARD LITE" ON BOTTOM. PROVIDE WITH WHITE "COOL WRAP" FINISH. MAINTAIN A CONTINUOUS VAPOR BARRIER THROUGHOUT THE SYSTEM. PER POLYGUARD'S INSTRUCTIONS INSTALL BOARD INSULATION ON TOP OF DUCT, SHAPE TO SLOPE, AND LAP POLYGUARD WRAP.
- DUCTWORK INSULATION:** PROVIDE INSULATION ON ALL SUPPLY, RETURN, AND OUTDOOR AIR INTAKE DUCTWORK PER R-VALUES LISTED IN FOLLOWING SCHEDULE (UNLESS NOTED OTHERWISE):
 - PROVIDE SUPPLY AIR AND RETURN DUCTS OUTSIDE THERMAL ENVELOPE: MINIMUM R-8 FACE VALUE PER IECC-2015/2018
 - SUPPLY AIR DUCTS INSIDE THERMAL ENVELOPE: R-8 FACE VALUE (MINIMUM R-6 INSTALLED) PER ASHRAE 90.1-2013
 - RETURN AIR DUCTS: MINIMUM R-6 FACE VALUE PER IECC-2015/2018
 - OUTSIDE AIR DUCTS: MINIMUM R-6 FACE VALUE
 - EXHAUST DUCTS INSIDE THERMAL ENVELOPE : NONE
 - EXHAUST DUCTS (BEFORE ERV WHERE APPLICABLE) OUTSIDE OF THERMAL ENVELOPE: R-8 (FACE VALUE)
- CONCEALED INTERIOR DUCTWORK INSULATION:** PROVIDE FIBERGLASS BLANKET INSULATION WITH FSK VAPOR BARRIER ON ALL CONCEALED SUPPLY, RETURN, AND OUTDOOR AIR INTAKE DUCTWORK. PROVIDE PRESSURE

- SENSITIVE TAPE, MASTIC, OR OTHER MATERIALS AS MAY BE REQUIRED TO MAINTAIN A CONTINUOUS VAPOR BARRIER THROUGHOUT THE SYSTEM. JACKETS AND VAPOR BARRIER MATERIALS MUST MEET LOCAL ORDINANCE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED RATINGS.**
- GREASE EXHAUST DUCT:** PROVIDE GREASE EXHAUST DUCTS FROM TYPE I GREASE HOODS TO OUTDOOR FANS IN COMPLIANCE WITH IMC, LATEST EDITION, AND IN COMPLIANCE WITH U/L 96. DUCTS SHALL BE CONSTRUCTED OF MINIMUM 16 GAUGE BLACK IRON OR 18 GAUGE #304 STAINLESS STEEL WITH ALL-WELDED SEAMS AND JOINTS. PROVIDE 3-M HIGH TEMPERATURE CLEANOUT DOORS AS REQUIRED BY CODE. WRAP THE ENTIRE DUCT ASSEMBLY WITH 3-M FIREWRAP 20 TO ACHIEVE "ZERO CLEARANCE TO COMBUSTIBLES" RATING.
- INSTRUMENTATION:** PROVIDE THERMOMETERS, THERMOWELLS, PRESSURE GAUGES, FLOW INDICATORS, CALIBRATED BALANCING VALVES, P&T PLUGS, AND OTHER INSTRUMENTATION INDICATED ON THE DRAWINGS. IN THE ABSENCE OF SUCH INDICATION, PROVIDE, AT MINIMUM, THERMOWELLS AND THERMOMETERS, AT THE INLET AND OUTLET OF EACH ITEM OF HEAT TRANSFER EQUIPMENT (BOILER, CHILLER, COOLING TOWER, COIL, HEAT EXCHANGER, ETC.) AND PRESSURE GAUGES WITH GAUGE COCKS AND SNUBBERS, AT THE INLET AND OUTLET OF EACH ITEM OF HEAT TRANSFER EQUIPMENT AND EACH PRIME MOVER (PUMP, FAN, ETC.).

HVAC PIPING GENERAL NOTES:

- REFRIGERANT PIPING:** PROVIDE TYPE L SOFT COPPER TUBING AND WROUGHT COPPER REFRIGERATION TYPE FITTINGS FOR ALL REFRIGERANT PIPING < 5 TONS. PROVIDE TYPE L-ACR HARD COPPER TUBING OTHERWISE. BRAZE ALL JOINTS TO WITHSTAND MINIMUM 500 PSIG PRESSURE. PURGE REFRIGERANT PIPES WITH DRY NITROGEN AFTER INSTALLATION AND EVACUATE SYSTEM TO MAXIMUM 300 MICRONS FOR A PERIOD OF 1 HOUR PRIOR TO CHARGING SYSTEMS. CHARGE SYSTEMS WITH REFRIGERANT INDICATED IN EQUIPMENT SCHEDULES AS REQUIRED TO OBTAIN PROPER OPERATING PRESSURES DURING NORMAL OPERATION. PROVIDE A LIQUID LINE FILTER-DRIER AND MOISTURE INDICATING SIGHT GLASS FOR EACH SYSTEM, AS WELL AS OTHER REFRIGERATION SPECIALTIES INDICATED ON DRAWINGS. SLOPE SUCTION PIPING (MIN. 1:12) TO CONDENSING UNIT. PROVIDE SUCTION LINE INVERTED TRAP BEFORE CONNECTING TO EVAPORATOR. TEST SYSTEMS AFTER STARTUP FOR LEAKS, AND REPAIR ALL LEAKS FOUND AND CLEAN & CHARGE SYSTEMS ANEW. PROVIDE UNICELLULAR RUBBER "ARMAFLEX" INSULATION, OR EQUIVALENT ON SUCTION PIPING AND COLD REFRIGERATION EQUIPMENT, WITH A MINIMUM THICKNESS OF 3/8" INDOORS AND 3/4" OUTDOORS. PAINT INSULATION WITH 2 COATS OF WHITE ARMAFLEX PAINT, OR EQUIVALENT. PROVIDE COVER FOR ANY REFRIGERANT LINES LONGER THAN 4 FEET OR ROUTED ALONG EXTERIOR WALL. COVER SHALL BE COATED STEEL TO MATCH BUILDING EXTERIOR WITH APPROVAL BY ARCHITECT.
- CONDENSATE PIPING:** PROVIDE A TRAPPED CONDENSATE DRAIN FOR EACH EVAPORATOR COIL, EQUAL TO EQUIPMENT CONNECTION SIZE, AND RUN OUT TO AN APPROPRIATE SANITARY DRAIN CONNECTION WITH AN AIR GAP PER DETAIL (MINIMUM 2" AIR GAP). CONDENSATE DRAIN PIPING SHALL BE TYPE L COPPER WATER TUBE WITH WROUGHT COPPER SWEAT PIPE FITTINGS. PROVIDE HANGERS, ANCHORS, CLAMPS, SUPPORTS, AND ACCESSORIES REQUIRED FOR PROPER SUPPORT. HANGERS SHALL BE FIBERGLASS OR STAINLESS STEEL WITH STAINLESS STEEL HARDWARE WHERE EXPOSED TO HUMIDITY >80%RH INCLUDING SPACES VENTILATED BY UNTREATED OUTSIDE AIR. PROVIDE UNICELLULAR RUBBER "ARMAFLEX" INSULATION, OR EQUIVALENT, ON PIPING WITH A MINIMUM THICKNESS OF 3/8" FOR CONDENSATE DRAIN PIPING LOCATED ABOVE CEILINGS. WHEN DRY WELL/FRENCH DRAIN IS PROVIDED FOR CONDENSATE DISCHARGE, CONTRACTOR SHALL CONFIRM WITH CIVIL ENGINEER (OR OWNER/ARCHITECT AS REQUIRED) TO VERIFY SOIL PERMEABILITY CAN ACCEPT SUBTERRANEAN DRAINAGE OF CONDENSATE.

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M4.01 - HVAC DETAILS	
M4.02 - HVAC DETAILS	
LEVEL 1 DISCIPLINE	M 201
- M = MECHANICAL	
SHEET TYPE	
- 1 = GENERAL	
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- 3 = SCHEDULES	
- 4 = DETAILS	
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SP ENGINEERING NO.: 240909

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REVISIONS				DRAWING INFORMATION			
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 19141.000			
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				SURVEYED BY:			
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				DRWN: JME	DATE:		
				CHKD: SBP	DATE:		
				QA/QC:	DATE:		

VERIFY SCALES:
 BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
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**EAST CENTRAL MULTI-PURPOSE ARENA
 CONCESSION AND RESTROOMS**

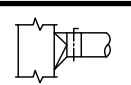
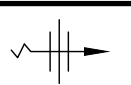
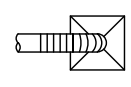
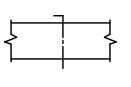
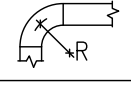
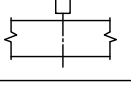
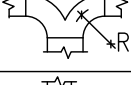
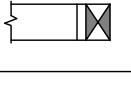

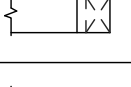



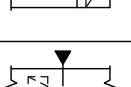
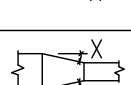

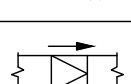
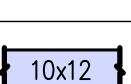
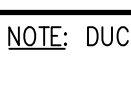
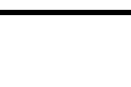
JACKSON COUNTY BOARD OF SUPERVISORS

HVAC GENERAL NOTES	
WORKING NUMBER:	DRAWING NUMBER:
M1.01	-

HVAC ABBREVIATIONS LEGEND

ABBREVIATION	REPRESENTATION OF ABBREVIATION	ABBREVIATION	REPRESENTATION OF ABBREVIATION	ABBREVIATION	REPRESENTATION OF ABBREVIATION
AD	ACCESS DOOR	GA	GAGE or GAUGE	PSIG	PSI GAUGE
AFF	ABOVE FINISHED FLOOR	GHT	GARDEN HOSE THREAD	R	THERMAL RESISTANCE (HR*FT*F)/BTU
AFG	ABOVE FINISHED GRADE	HD	HEAD	RA	RETURN AIR
AHU	AIR-HANDLING UNIT	HG	MERCURY	RH	RELATIVE HUMIDITY
AVD	AUTOMATED VOLUME DAMPER	Ⓜ H STAT	HUMIDISTAT	Ⓢ	SENSOR
BDD	BACK DRAFT DAMPER	ID	INSIDE DIAMETER	SA	SUPPLY AIR
BHP	BRAKE HORSEPOWER or BOILER HORSEPOWER	IPS	INTERNATIONAL PIPE STANDARD	SD	SMOKE DETECTOR
BTU	BRITISH THERMAL UNIT	MCA	MINIMUM CIRCUIT AMPACITY	SHC	SENSIBLE HEAT CAPACITY
CAP	CAPACITY	MCM	THOUSAND CIRCULAR MILS	SHR	SENSIBLE HEAT RATIO
CD	CONDENSATE DRAIN	MOCP	MAXIMUM OVERCURRENT PROTECTION	TD, ΔT	TEMPERATURE DIFFERENCE
CKT	CIRCUIT	MS	MOTOR STARTER	Ⓣ T STAT	THERMOSTAT
DAT	DISCHARGE AIR TEMPERATURE	MVD	MANUAL VOLUME DAMPER	THC	TOTAL HEAT CAPACITY
DB	DRY-BULB	NC	NOISE CRITERIA	U	HEAT TRANSFER COEFFICIENT
DIFF, Δ	DIFFERENCE	N.C.	NORMALLY CLOSED	UC	UNDER CUT DOOR
DN	DOWN	NIC	NOT IN CONTACT	U/G	UNDERGROUND
DS	DISCONNECT SWITCH	N.O.	NORMALLY OPEN	VA	VOLT AMPERE
EAT	ENTERING AIR TEMPERATURE	NTS	NOT TO SCALE	VAV	VARIABLE AIR VOLUME
EWT	ENTERING WATER TEMPERATURE	OA	OUTSIDE AIR	VEL	VELOCITY
EXH	EXHAUST	OD	OUTSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
ESP	EXTERNAL STATIC PRESSURE	PD	PRESSURE DROP or DIFFERENCE	WB	WET BULB
FA	FACE AREA	PH	PHASE (ELECTRICAL)	WC	WATER COLUMN
FD	FIRE DAMPER	PPM	PARTS PER MILLION	WG	WATER GAUGE
F/SD	FIRE/SMOKE DAMPER	PSIA	PSI ABSOLUTE	WT	WEIGHT

VENTILATION WORK LEGEND

NEW WORK DOUBLE LINE	DESCRIPTION OF VENTILATION WORK	NEW WORK DOUBLE LINE	DESCRIPTION OF VENTILATION WORK
	SQUARE-TO-ROUND SIDE TAKEOFF WITH MANUAL DAMPER AND OFFSET QUADRANT		UNDER CUT (UC) DOOR. MIN. 3/4" FOR <100 CFM AND 1" FOR RETURN FLOW ≥100 CFM
	LAY-IN DIFFUSER WITH FLEXIBLE DUCT CONNECTION (8'-0" MAXIMUM EXTENDED LENGTH)		MANUAL VOLUME DAMPER w/ LOCKING QUADRANT (OPPOSED BLADE) (BDD= COUNTER-BALANCED BACKDRAFT DAMPER)
	RADIUS ELBOW R= 3/4 DUCT WIDTH		AVD= ACTUATED VOLUME DAMPER (OPPOSED BLADE)
	RADIUS WYE R= 3/4 LEAVING DUCT WIDTH		SUPPLY DUCT UP (OR OUT OF PAGE)
	RADIUS ECCENTRIC WYE R= 3/4 LEAVING DUCT WIDTH		SUPPLY DUCT DOWN (OR INTO PAGE)
	SQUARE SIDE TAKEOFF (CLINCH TEE)		RETURN/EXHAUST DUCT UP (OR OUT OF PAGE)
	SQUARE ELBOW WITH ACOUSTIC TURNING VANES		RETURN/EXHAUST DUCT DOWN (OR INTO PAGE)
	ECCENTRIC TRANSITION. X=30" MAXIMUM FOT= FLAT ON TOP FOB= FLAT ON BOTTOM		DYNAMIC FIRE DAMPER (F/SD= FIRE/SMOKE DAMPER) PROVIDE ACCESS DOOR AT EACH DAMPER
	CONCENTRIC TRANSITION. X=15" MAXIMUM FOT= FLAT ON TOP FOB= FLAT ON BOTTOM		FLEXIBLE DUCT CONNECTION AT EQUIPMENT
	OFFSET (30" MAXIMUM) UP OR DN AS INDICATED		NEW DUCT, LOW PRESSURE

NOTE: DUCT SIZES ARE INTERNAL CLEAR DIMENSIONS. WIDTH x HEIGHT.



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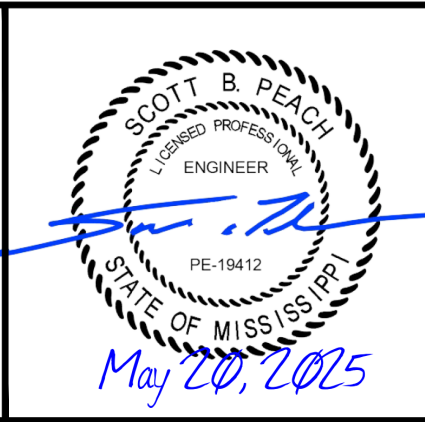
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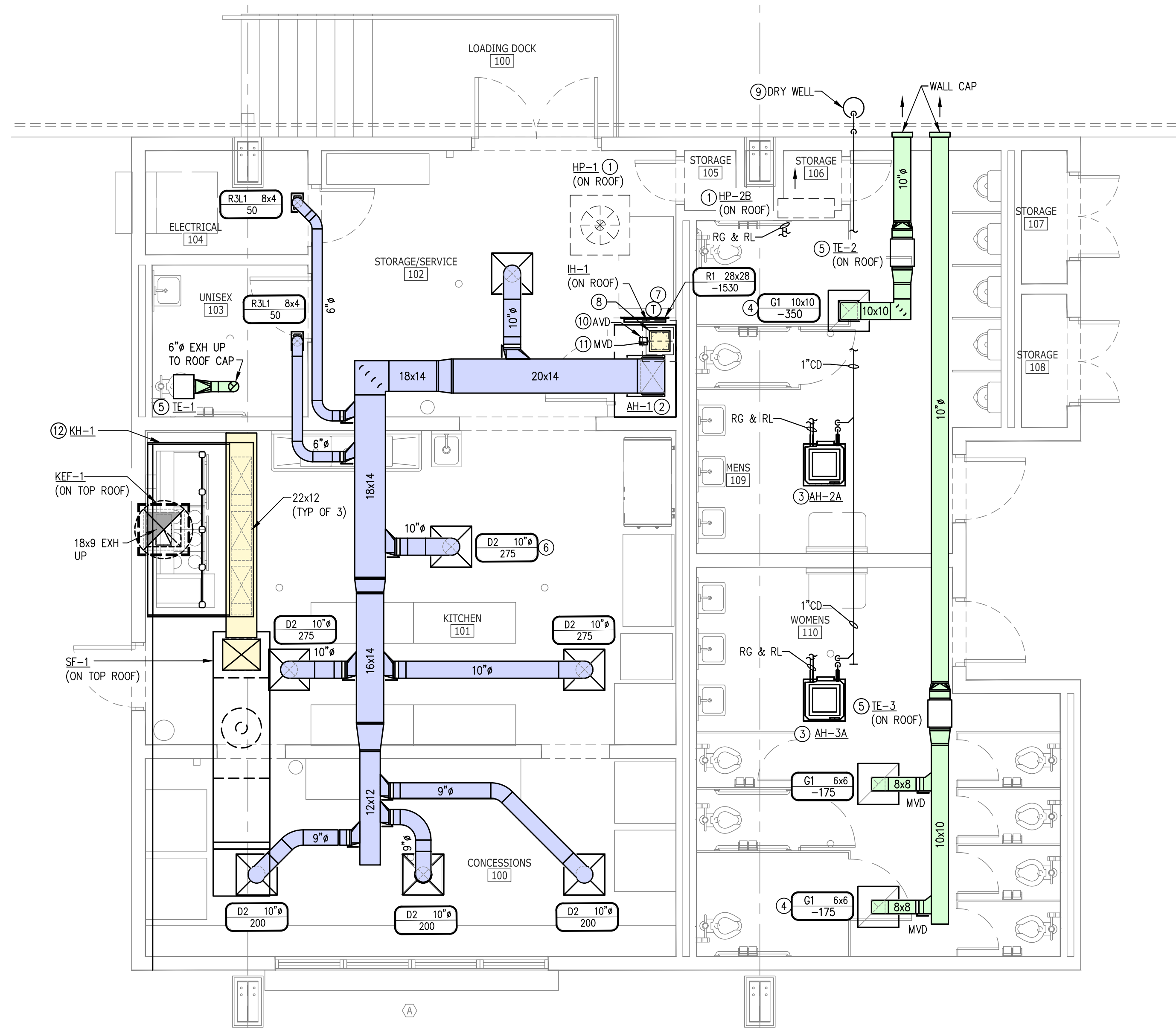
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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS**

JACKSON COUNTY BOARD OF SUPERVISORS



HVAC LEGENDS	
WORKING NUMBER: M1.02	DRAWING NUMBER: -



KEYNOTES:

- ① PROVIDE HEAT PUMP (HP) PER SCHEDULE ON SHEET M3.01. MOUNT HP ON GALVANIZED STEEL SUPPORT RAILS ON ROOF. SECURE UNIT TO ROOF CURB TO MEET 115 MPH WIND LOADING REQUIREMENTS. ROUTE REFRIGERANT TO AH PER DETAIL ON SHEET M4.02. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS. SUPPORT REFRIGERANT LINE SET FROM ROOF STRUCTURE WITH CLEVIS HANGERS OR UNISTRUT AND ALL-THREAD RODS AT MAXIMUM 8'-0" OC. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS. INSULATE SUCTION PIPING WITH 1/2" WALL ARMAFLEX. ARMAFLEX SHALL BE PAINTED WITH 2 COATS OF WHITE ARMAFLEX PAINT FOR ALL EXTERIOR PIPING. (TYPICAL)
- ② INSTALL AIR HANDLING UNIT (AH) PER SCHEDULE SHEET M3.01. MOUNT AH ON 24" H 18 GAUGE METAL PLENUM. PROVIDE 18 GAUGE GALVANIZED STEEL AUXILIARY DRAIN PAN BENEATH UNIT IN PLENUM. PROVIDE CONDENSATE WATER SENSOR IN DRAIN PAN. TRANSITION SA DUCT PER DETAIL ON SHEET M4.01. ROUTE CONDENSATE PIPING AT FULL SIZE OF UNIT CONNECTION WITH P-TRAP AND SLOPE AT MIN. OF 1/4" PER FOOT TO FLOOR DRAIN IN ROOM. SEE PLUMBING PLANS FOR LOCATION OF DRAIN. PROVIDE 16x16 ACCESS PANEL ON FRONT OF PLENUM FOR EACH UNIT. SEAL JOINTS INSIDE OF PLENUM WITH TWO COATS OF WHITE MASTIC TO PREVENT INFILTRATION. INSTALL FLEXIBLE DUCT CONNECTIONS FOR SUPPLY AIR ON AH.
- ③ PROVIDE CEILING-MOUNTED AIR HANDLING UNIT (AH) PER SCHEDULE ON SHEET M3.01. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUSPEND WITH HOT DIPPED GALVANIZED ALL-THREAD RODS, SPRING VIBRATION ISOLATORS, AND GALVANIZED HARDWARE. ROUTE CONDENSATE PIPING FROM UNIT. PROVIDE P-TRAP AND SLOPE CONDENSATE AT MIN. OF 1/4" PER FOOT AND DISCHARGE INTO DRY WELL. SECURE PIPING TO WALL IN A TIDY MANNER. SEE DETAIL ON SHEET M4.01 FOR PIPING SIZES.
- ④ PROVIDE 6" HIGH PLENUM FOR EXHAUST GRILLE. PAINT INTERIOR OF DUCT FLAT BLACK. CONNECT EXHAUST DUCT ON TOP OF PLENUM AS SHOWN ON PLANS. (TYPICAL)
- ⑤ PROVIDE TOILET EXHAUST FAN (TE) PER SCHEDULE ON SHEET M3.02. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE FLEXIBLE CONNECTION AT UNIT. TRANSITION FROM FULL SIZE OF UNIT CONNECTION TO DUCT SIZE SHOWN AND ROUTE PER PLANS. PROVIDE BACK DRAFT DAMPER. SEAL DUCT CONNECTIONS AIRTIGHT. TERMINATE WITH WALL CAP AS INDICATED ON PLANS.
- ⑥ INSTALL NEW CEILING DIFFUSER AND FLEX DUCT PER DETAIL ON SHEET M4.01. ALL DEVICES ARE 4-WAY UNLESS NOTED OTHERWISE. FLEX SIZE MAY BE LARGER THAN HARD DUCT SIZE SHOWN. (TYPICAL)
- ⑦ INSTALL THERMOSTAT ON WALL AT 48" (UNLESS NOTED OTHER WISE ON ARCHITECTURAL DOCUMENTS). LOCATION IS APPROXIMATE. COORDINATE WITH OTHER FIXTURES, SWITCHES, AND EQUIPMENT. THERMOSTATS SHALL BE AS CLOSE TO RETURN AIR GRILLE AS POSSIBLE. DO NOT RELOCATE THERMOSTATS ABOVE HEAT GENERATING EQUIPMENT, IN DIRECT SUN, OR ON EXTERIOR WALLS. ELECTRICAL CONTRACTOR SHALL INSTALL CONDUIT AND PULL WIRE FROM UNIT AS INDICATED WITH TERMINATIONS BY MECHANICAL CONTRACTOR.
- ⑧ PROVIDE 12x12 FILTER FRAME (2" FILTER) AT OA CONNECTION TO RETURN PLENUM.
- ⑨ PROVIDE DRY WELL. SEE DETAIL ON SHEET M4.01.
- ⑩ INSTALL MOTORIZED DAMPER (CLASS 1A) ON OUTSIDE AIR FOR EACH UNIT. DAMPER TO BE INTERLOCKED WITH CORRESPONDING UNIT TO CLOSED WHEN UNIT IS NOT IN OPERATION.
- ⑪ INSTALL MVD IN OA DUCT. BALANCE CFM LISTED IN VENTILATION SCHEDULE.
- ⑫ INSTALL TYPE I KITCHEN HOOD (KH) AND SUPPLY PLENUM. SEE SCHEDULE ON SHEET M3.02.

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



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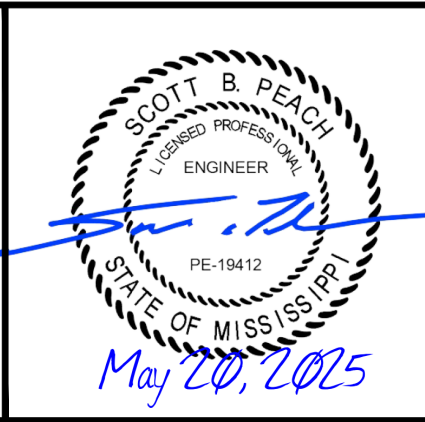
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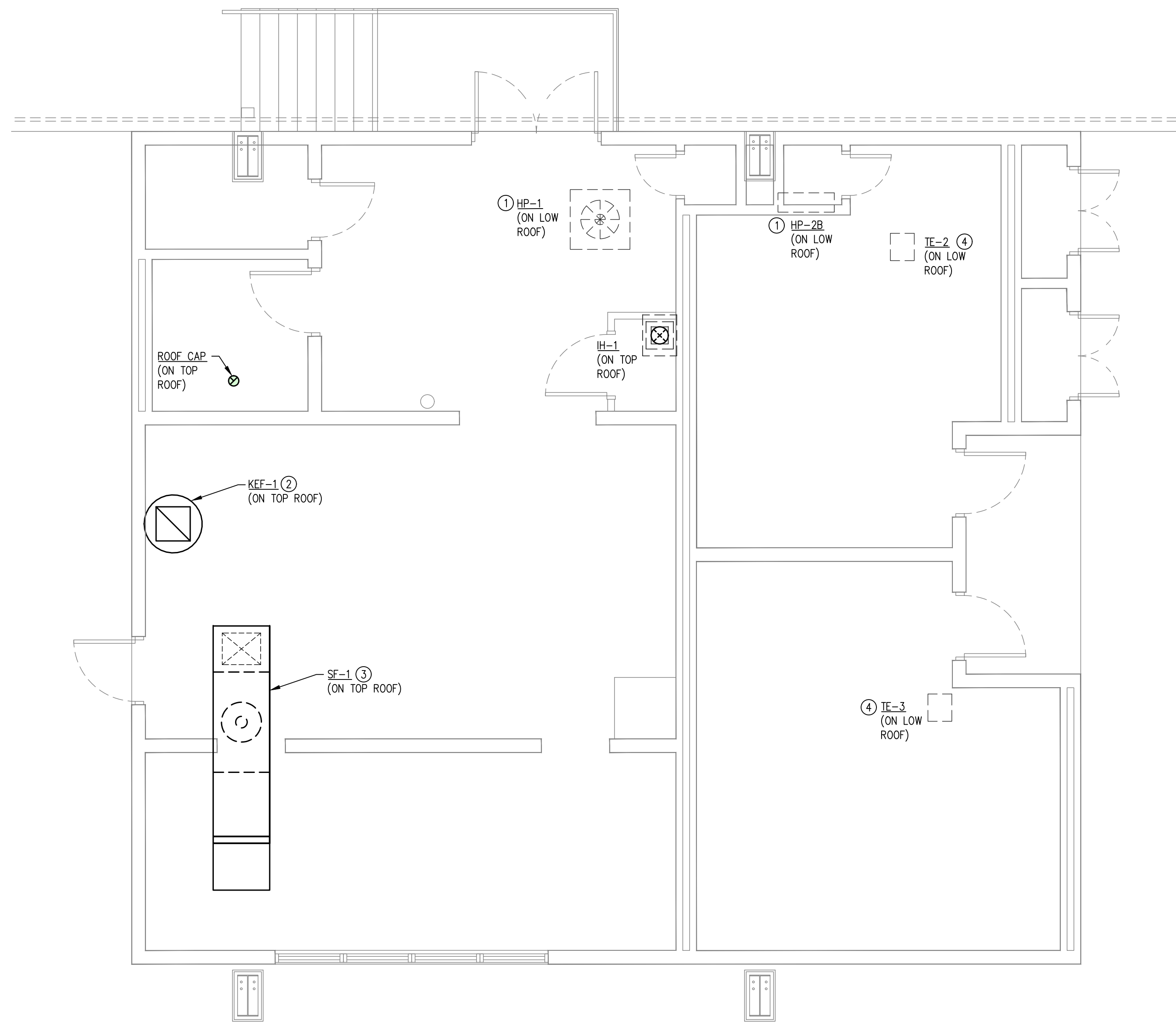
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**EAST CENTRAL MULTI-PURPOSE ARENA
 CONCESSION AND RESTROOMS**

 JACKSON COUNTY BOARD OF SUPERVISORS



HVAC PLAN	
WORKING NUMBER: M2.01	DRAWING NUMBER: -



KEYNOTES:

- ① PROVIDE HEAT PUMP (HP) PER SCHEDULE ON SHEET M3.01. MOUNT HP ON GALVANIZED STEEL SUPPORT RAILS ON ROOF. SECURE UNIT TO ROOF CURB TO MEET 115 MPH WIND LOADING REQUIREMENTS. ROUTE REFRIGERANT TO AH PER DETAIL ON SHEET M4.02. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS. SUPPORT REFRIGERANT LINE SET FROM ROOF STRUCTURE WITH CLEVIS HANGERS OR UNISTRUT AND ALL-THREAD RODS AT MAXIMUM 8'-0" OC. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS. INSULATE SUCTION PIPING WITH 1/2" WALL ARMAFLEX. ARMAFLEX SHALL BE PAINTED WITH 2 COATS OF WHITE ARMAFLEX PAINT FOR ALL EXTERIOR PIPING. (TYPICAL)
- ② INSTALL KITCHEN EXHAUST FAN, KEF, ON ROOF. CONNECT TO ASSOCIATED KITCHEN HOOD, KH. PROVIDE TRANSITION AS REQUIRED. SEE SCHEDULE ON SHEET M3.02. FAN AND CURB PROVIDED BY KITCHEN EQUIPMENT VENDOR. REFER TO KITCHEN EQUIPMENT VENDOR PLANS FOR ADDITIONAL INFORMATION. CURB SHALL BE SECURED TO ROOF STRUCTURE WITH ASSEMBLY RATED AT 160 MPH. SEE SHEET M2.01 FOR CONTINUATION.
- ③ INSTALL SUPPLY FAN (SF) ON ROOF. CONNECT TO KITCHEN HOOD AS SHOWN. CONNECT TO ASSOCIATED KITCHEN HOOD, KH. PROVIDE TRANSITION AS REQUIRED. SEE SCHEDULE ON SHEET M3.02. CURB SHALL BE SECURED TO ROOF STRUCTURE WITH ASSEMBLY RATED AT 160 MPH. FAN AND CURB PROVIDED BY KITCHEN EQUIPMENT VENDOR. INTAKE FOR SF TO BE INSTALLED A MINIMUM OF 10 FEET FROM ALL EXHAUST AND PLUMBING VENTS. CURB SHALL BE SECURED TO ROOF STRUCTURE WITH ASSEMBLY RATED AT 160 MPH. SEE SHEET M2.01 FOR CONTINUATION. PROVIDE CONDENSATE PIPING AT FULL SIZE OF UNIT. PROVIDE P-TRAP ABOVE ROOF PER DETAIL ON SHEET M4.01. ROUTE CONDENSATE PIPING BELOW ROOF AND SLOPE AT MIN. OF 1/4" PER FOOT TO DISCHARGE INTO MOP SINK WITH MINIMUM 2" AIR GAP. PROVIDE PIPING SUPPORTS FOR CD ON ROOF AS REQUIRED AND ADHERE SUPPORTS TO ROOF WITH ADHESIVE APPROVED BY ROOF MANUFACTURER. PROVIDE HANGERS AND WALL SUPPORTS FOR CD PIPING ROUTED ABOVE CEILING AS REQUIRED. ROUTE CONDENSATE PIPING TO DRY WELL.
- ④ PROVIDE TOILET EXHAUST FAN (TE) PER SCHEDULE ON SHEET M3.02. INSTALL ON CURB. CURB SHALL BE SECURED TO ROOF STRUCTURE WITH ASSEMBLY RATED AT 160 MPH. SEE SHEET M2.01 FOR CONTINUATION.

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



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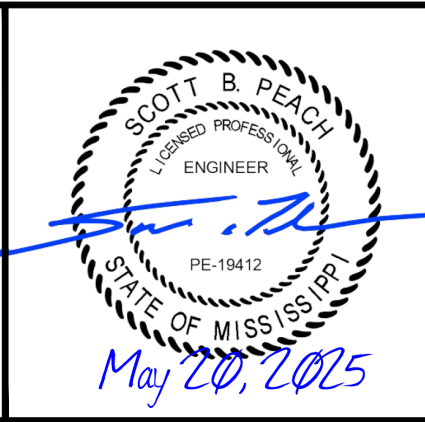
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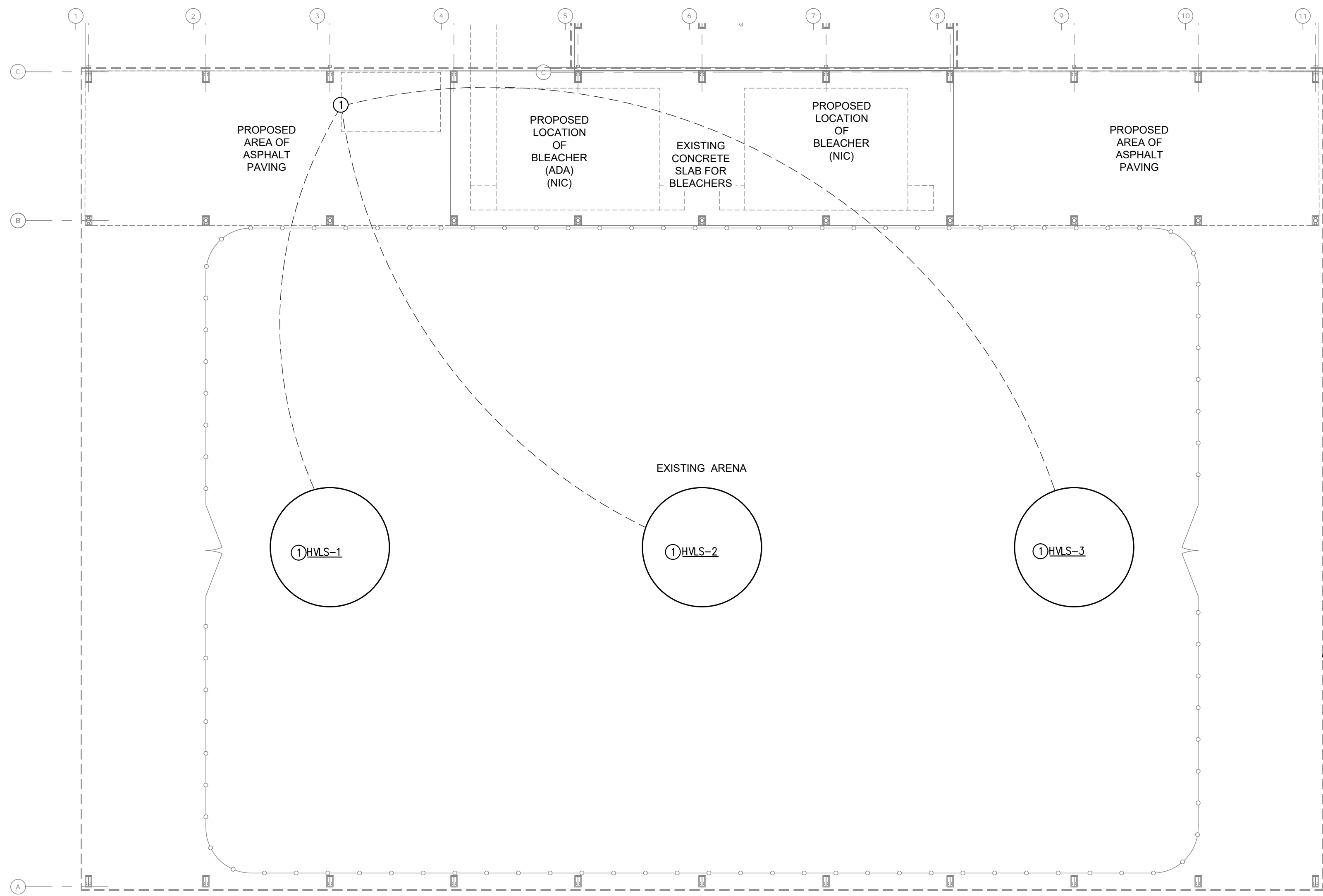
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**EAST CENTRAL MULTI-PURPOSE ARENA
 CONCESSION AND RESTROOMS**

 JACKSON COUNTY BOARD OF SUPERVISORS



HVAC TOP ROOF PLAN	
WORKING NUMBER: M2.02	DRAWING NUMBER: -



KEYNOTES:

- ① PROVIDE CEILING FAN PER SCHEDULE ON SHEET M301. SUSPEND CEILING FAN FROM CEILING PER MFG. INSTRUCTIONS. WIRE TO STANDARD CONTROLLER. COORDINATE LOCATION OF CONTROLLER WITH OWNER.



A HVAC ARENA PLAN
M2.03 SCALE: 1/4" = 1'-0"



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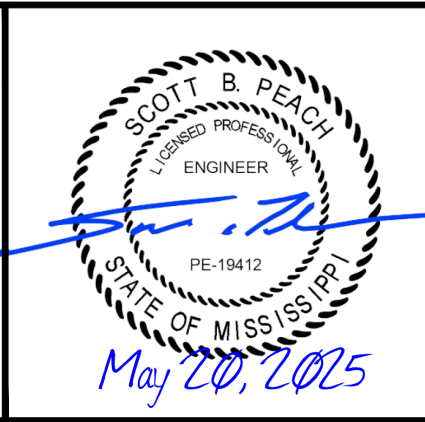
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HVAC ARENA PLAN	
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IMC (2021) VENTILATION SCHEDULE																									
ROOM NO.	ROOM NAME	USE OF SPACE	FLOOR AREA (SF)	ROOM HEIGHT	ROOM VOLUME	DENSITY: PERSONS/1000 SF	NO. OF PEOPLE	CODE REQUIREMENTS								PROJECT REQUIREMENTS							MECHANICAL MASS BALANCE CFM		REMARKS
								OUTDOOR AIR - CFM				EXHAUST AIR - CFM				SUPPLY		OUTDOOR AIR			EXHAUST AIR		ROOM	BLDG	
								/PERSON	/SF	Ez	TOTAL	/SF	/FIXT	# FIXT	TOTAL	CFM	% OA MIN	CFM	UNIT	RECIRC. CFM	CFM	UNIT			
100	CONCESSIONS	KITCHEN (COOKING) (FOOD/BEV)	250	9	2250	20	2	7.5	0.12	1	45	0.70	-	-	175	600	15.0%	90	AH-1	510	-	-	90	90	-
101	KITCHEN	KITCHEN (COOKING) (FOOD/BEV)	398	9	3582	20	2	7.5	0.12	1	63	0.70	-	-	279	825	15.0%	124	AH-1	701	-	KEF-1	124	124	-
102	STORAGE/SERVICE	STORAGE ROOMS (GEN-ASHRAE)	225	9	2025	-	1	-	0.06	1	14	-	-	-	275	15.0%	41	AH-1	234	-	-	41	41	-	
103	UNISEX	TOILETS - INTERMITTENT FAN (PUBLIC)	57	9	513	-	-	-	-	1	-	-	-	-	70	50	15.0%	8	AH-1	43	70	TE-1	-63	-63	-
104	ELECTRICAL	ELECTRICAL ROOM (*MISC)	41	9	369	-	-	-	0.06	1	2	-	-	-	50	15.0%	8	AH-1	43	-	-	8	8	-	
105	STORAGE	STORAGE ROOMS (GEN-ASHRAE)	8	9	72	-	-	-	0.06	1	-	-	-	-	-	15.0%	-	AH-1	-	-	-	-	-	-	
106	STORAGE	STORAGE ROOMS (GEN-ASHRAE)	8	9	72	-	-	-	0.06	1	-	-	-	-	-	15.0%	-	AH-1	-	-	-	-	-	-	
107	STORAGE	STORAGE ROOMS (GEN-ASHRAE)	14	9	126	-	-	-	0.06	1	1	-	-	-	-	15.0%	-	AH-1	-	-	-	-	-	-	
108	STORAGE	STORAGE ROOMS (GEN-ASHRAE)	14	9	126	-	-	-	0.06	1	1	-	-	-	-	15.0%	-	AH-1	-	-	-	-	-	-	
ZONE TOTAL - AH-1			1,015	9.0	9,135	-	5	-	-	-	126	-	-	-	524	1,800	15.0%	270	-	1,530	70	-	200	200	1.77 ACH
109	MENS	TOILETS - CONTINUOUS FAN (PUBLIC)	252	9	2,268	-	-	-	-	1	-	-	-	-	50	350	-	-	AH-2A	350	350	TE-2	-350	-350	-
ZONE TOTAL - AH-2			252	9.0	2,268	-	-	-	-	-	-	-	-	-	350	350	-	-	-	350	350	-	-350	-350	-
110	WOMENS	TOILETS - CONTINUOUS FAN (PUBLIC)	305	9	2,745	-	-	-	-	1	-	-	-	-	50	350	-	-	AH-3A	350	350	TE-3	-350	-350	-
ZONE TOTAL - AH-3			305	9.0	2,745	-	-	-	-	-	-	-	-	-	350	350	-	-	-	350	350	-	-350	-350	-
BUILDING TOTAL			1,572	9.0	14,148	-	5	-	-	-	126	-	-	-	1,224	2,500	10.8%	270	-	2,230	770	-	-500	-500	1.15 ACH

SPLIT SYSTEM HEAT PUMP INDOOR UNIT SCHEDULE																		OUTDOOR UNIT SCHEDULE																		
TAG	MANUFACTURER MODEL No.	CONFIGURATION	FAN DATA				MOTOR DATA			DX COOLING DATA (95F)						HEATING COIL DATA (47F)					ELECTRICAL & PHYSICAL DATA				ACCESSORIES & REMARKS	TAG	MANUFACTURER MODEL No.	COMPRESSOR DATA		PHYSICAL DATA			ACCESSORIES / REMARKS			
			SA (CFM)	MAX OA (CFM)	ESP (in WC) DUCT	FAN SPEED	HP	VFD	DRIVE SPEED	OADB	OAWB	EDB EWB	THC SHC	SHR	LDB LWB	MIN EER2/SEER2	DX (MBH)	OADB	EAT LAT	MIN COP2/HSPF2	ACT COIL (KW)	CTL TYPE	VOLTAGE PHASE	MCA MOCOP				FILTER TYPE	OPER WT LBS	QTY	TYPE	VOLTAGE/PHASE		MCA MOCOP	OPER WT LBS	
AH-1	DAIKIN AMST60DU1300A	VERTICAL	1,800	270	0.50	0.75"	HIGH	1	NO	-	88.8	81.1	76.8 66.3	56 38.4	0.686	56.8 56.1	12.5 14.5	57.0	27.4	61.7 91	4.04 8.2	5.0	1-STG	208/1*	44 60A	MERV-8	167	FEHC, SPWK, CDTK, PROG, TXVK, 90.1	HP-1	DAIKIN DH4SEA6010A	1	1-STG	208/1*	31.1 50A	317	5ART, CHSK, CCHT, OLLT

INDOOR UNIT ACCESSORIES LEGEND:
 DBCK - DOWNFLOW BASE/CONVERSION KIT
 TXVK - THERMOSTATIC EXPANSION VALVE KIT
 FEHC - FACTORY INSTALLED ELECTRIC HTG. COIL
 AEHC - AUXILIARY ELECTRIC HEATING COIL
 SPWK - SINGLE POINT WIRING KIT
 AHWC - AUXILIARY HOT WATER COIL
 EFCK - EXTERNAL FILTER CABINET KIT
 6BAS - 6" HIGH BASE (FIELD FURNISHED)
 CDTK - CONDENSATE DRAIN TRAP KIT
 MSPS - MULTI-SOURCE POWER SUPPLY
 COAT - EVAP. COIL PROTECTION COATING
 MIXB - RA/OA MIXING BOX
 PROG - PROGRAMMABLE TEMPERATURE CONTROL
 BNCT - BACNET COMPATIBLE CONTROLS
 LONC - LONTALK COMPATIBLE CONTROLS
 ION - BIPOLAR AIR IONIZATION DEVICE
 FILT - UNIT MTD. FILTER BANK
 RASD - RA SMOKE DETECTOR
 SASD - SA SMOKE DETECTOR
 90.1 - ASHRAE 90.1(2013) COMPLIANT
 ECON - FACTORY ECONOMIZER

OUTDOOR UNIT ACCESSORIES LEGEND:
 CHSK - COMPRESSOR HARD START KIT
 CCHT - COMPRESSOR CRANKCASE HEATER
 OLLT - OUTDOOR LOW LIMIT THERMOSTAT
 5ART - 5 MIN. ANTI RECYCLE TIMER
 ADSIL - ADSIL COIL PROTECTION COATING
 COAT - COND. COIL PROTECTION COATING
 GSRN - GFCI SERVICE RECEPTACLE NON - POWERED
 GSRP - GFCI SERVICE RECEPTACLE POWERED
 LAMC - LOW AMBIENT MOTOR CONTROL
 BACC - BACNET COMPATIBLE CONTROLS
 LONC - LONTALK COMPATIBLE CONTROLS
 APR - APR CONTROL VALVE

FOLLOW MANUFACTURER'S GUIDELINES FOR REFRIGERANT LINE SIZING AND LONG LINE APPLICATIONS.

MULTI-SPLIT HEAT PUMP INDOOR UNIT SCHEDULE														OUTDOOR UNIT SCHEDULE											
TAG	MANUFACTURER MODEL No.	CONFIGURATION	FAN DATA		DX COOLING DATA (95F)			HEATING COIL DATA (47F)			ELECTRICAL & PHYSICAL DATA			ACCESSORIES & REMARKS	TAG	MANUFACTURER MODEL No.	CAPACITY DATA		COMPRESSOR DATA			ELECTRICAL & PHYSICAL DATA			ACCESSORIES / REMARKS
			NOM CFM	DRIVE SPEED	REFR	THC	EER2 SEER2	MBH	COP HSPF2	VOLTAGE/PHASE	MCA MOCOP	FILTER TYPE	NOM CLG				NOM HTC	QTY TYPE	LIQ CONN	SUC CONN	VOLTAGE/PHASE	MCA MOCOP	OPER WT LBS		
AH-2A	DAIKIN FFQ18W2UJUB	CASSETTE	350	VARI	R410A	18.0	11.70 20.00	22.0	4.3 9.0	208/1*	*	WASHABLE	3SPD, FMCP, PROG	HP-2	DAIKIN 4MXL36WVJU9	34.4	36.60	1 INVERTER	1/4"	3/8"	208/1*	30.2 35A	214	5ART, COAT, LAMC, 5YR FACTORY COMPRESSOR WARRANTY	
AH-3A	DAIKIN FFQ18W2UJUB	CASSETTE	350	VARI	R410A	18.0	11.70 20.00	22.0	4.3 9.0	208/1*	*	WASHABLE	3SPD, FMCP, PROG												

INDOOR UNIT ACCESSORIES LEGEND:
 FMCP-FACTORY MOUNTED CONDENSATE PUMP
 FILT-UNIT MTD. FILTER BANK (W/FILTER LISTED)
 EFCK-EXTERNAL FILTER CABINET KIT (W/FILTER LISTED)
 MIXB-RA/OA MIXING BOX
 ION-BIPOLAR AIR IONIZATION DEVICE
 DHUM-HUMIDITY CONTROLLING THERMOSTAT
 2SPD-TWO SPEED FAN MOTOR
 3SPD-THREE SPEED FAN MOTOR
 LONG-MFR. LONG LINE KIT. PROVIDE LONG LINE ACCESSORIES AND TUBING SIZED PER MFR. I&O MANUAL.
 * UNITS POWERED BY OUTDOOR UNIT

REFRIGERANT SIZES ARE SHOWN FOR CONVENIENCE. FOLLOW MANUFACTURER'S GUIDELINES AT ALL TIMES. IF SIZING OF REFRIGERANT LINES INDICATES SMALLER THAN INDICATED OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLATION.

GRAVITY VENTILATOR SCHEDULE								
TAG	DESIGN BASIS MANUFACTURER & MODEL No.	VENTILATOR TYPE	CONSTRUCTION FINISH	SERVICE	THROAT SIZE (IN.)	AIRFLOW (CFM)	MAX PRESSURE DROP (IN. W.C.)	ACCESSORIES/REMARKS
IH-1	GREENHECK FGI	FABRICATED HOOD	ALUMINUM MILL FINISH	INTAKE	8x8	263	0.06	CURB, FBDD, GMBS

ACCESSORIES LEGEND:
 CURB-14" HIGH ROOF CURB
 GBDD-GRAVITY BACKDRAFT DAMPER
 FBDD-FABRIC BACKDRAFT DAMPER
 MOCOP-MOTOR OPER. CONT. DAMPER
 GMBS-GALV. 1/2" MESH BIRDSCREEN
 AMIS-ALUM. MESH INSECT SCREEN
 HBAS-HINGED BASE
 TBAS-TALL(12"MIN.) BASE
 INSU-HOOD INSULATION (1/2")
 SWTD-SEVERE WEATHER TIE DOWNS
 FILT-2" ALUM. CLEANABLE FILTERS
 MDC-MIAMI-DADE CERTIFIED
 FPA-FLORIDA PRODUCT APPROVAL
 140W-140MPH WIND LOAD RATED
 FUSL-FUSIBLE LINK (SMOKE RELIEF)
 FINISH LEGEND (COLOR FINISH WITH SELECTION BY ARCHITECT):
 POLY-POLYESTER POWDER (DURABLE/NO CHEMICAL)
 EPOX-EPOXY POWDER COAT (CORROSION/CHEMICAL/NO TRAFFIC)
 SILC-SILICONE POWDER COAT (CORROSION/CHEMICAL/DURABLE)
 PRIM-PRIMER COATED (FINISH COLOR PER ARCH DOCUMENTS)



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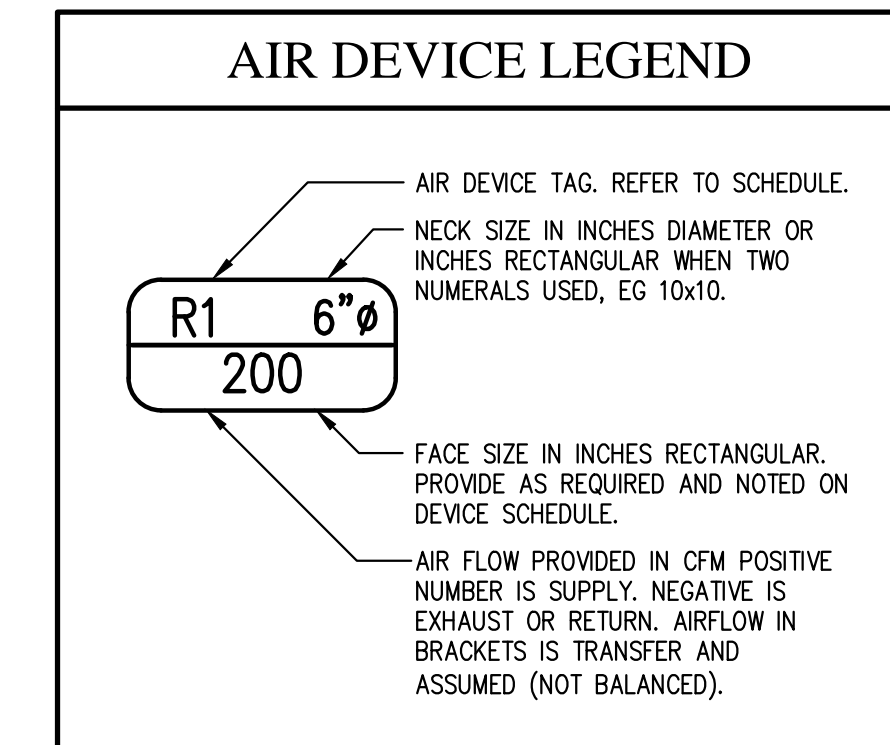


HVAC SCHEDULES

WORKING NUMBER: M3.01
 DRAWING NUMBER: -

TEMPERED FAN SCHEDULE																													
TAG	MANUFACTURER MODEL No.	FAN TYPE	DRIVE TYPE	SERVICE	AIRFLOW (CFM)	SONES	TSP (IN WC)	RPM	MOTOR POWER (HP)	ELECTRICAL (VOLTAGE/PHASE)	COOLING DATA					HEATING COIL DATA					ACCESSORIES & REMARKS	MOTOR CONTROL	DAMPER CONTROL			SAFETY ACTIONS		CONTROL ACTIONS	
											TYPE	MEDIA	CONDENSER #	THC (MBH)	MCA MOCP	TYPE	INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	EAT LAT			INLET	DISCH	REMOTE	START	STOP	START	STOP
SF-1	ACCUREX XDX-P116-H12-D1-3	PLENUM	DIRECT	KH-1	1,496	5.9	1.31	1315	1	208/1 ϕ	DX	R-454b	1	46.8	29.3 40A	GAS	84.3	77.6	92	22.0 70.0	CURB (12"), DS (NEMA 3R), EC, FILT, MBDD	LINE VOLTAGE KEF-1 INTERLOCK	MOTORIZED	BOTTOM	---	---	---	HOOD HEAT SENSOR = "HOT" = "ON"	HOOD HEAT SENSOR = "COOL" = "OFF"
ROOF FAN ACCESSORIES LEGEND:											NOTE:																		
EC - EVAPORATIVE COOLING COIL SECTION GSHT - GAS HEAT SECTION MBDD - MOTORIZED BACKDRAFT DMPR. DS - DISC. SWITCH (TYPE NOTED) FILT - ANGLED FILTER BOX NFFPA96 - ALL NFPA 96 ACCESSORIES CURB - PREFABRICATED ROOF CURB (HEIGHT)											KITCHEN HOOD EQUIPMENT LISTED ABOVE IS PROVIDED BY KITCHEN EQUIPMENT SUPPLIER AND IS FOR REFERENCE ONLY. SEE KITCHEN EQUIPMENT PLANS FOR EXHAUST AND SUPPLY FANS SERVING HOODS.																		

FAN SCHEDULE																			
TAG	MANUFACTURER MODEL No.	FAN TYPE	DRIVE TYPE	SERVICE	AIRFLOW (CFM)	SONES	ESP (IN WC)	RPM	MOTOR POWER (HP)	ELECTRICAL (VOLTAGE/PHASE)	ACCESSORIES & REMARKS	MOTOR CONTROL	DAMPER CONTROL			SAFETY ACTIONS		CONTROL ACTIONS	
													INLET	DISCH	REMOTE	START	STOP	START	STOP
KEF-1	ACCUREX XCUBE-160-7	ROOF	BELT DRIVEN	KITCHEN 101	1,870	12.6	0.96	1123	3/4 HP	208/1 ϕ	CURBP (12"), DS (NEMA 3R), HING	LINE VOLTAGE HEAT SENSOR	---	GRAVITY	---	---	FIRE	HOOD HEAT SENSOR = "HOT" = "ON"	HOOD HEAT SENSOR = "COOL" = "OFF"
TE-1	GREENHECK SP-B110ES	CEILING CABINET	DIRECT	UNISEX 103	70	2.5	0.50	642	30W	120/1 ϕ	GBDD, RVIB, RCAP, USPD	LINE VOLTAGE WALL TOGGLE	---	GRAVITY	---	---	---	OCC SENSOR	OCC SENSOR WITH 10 MINUTE DELAY
TE-2	GREENHECK QEIDFJ-12-100	INLINE	DIRECT	MENS 109	350	6.7	0.75	1853	1/2 HP	120/1 ϕ	GBDD, RVIB, WCAP, USPD	LINE VOLTAGE WALL TOGGLE	---	GRAVITY	---	---	---	OCC SENSOR	OCC SENSOR WITH 10 MINUTE DELAY
TE-3	GREENHECK QEIDFJ-12-100	INLINE	DIRECT	WOMENS 110	350	6.7	0.75	1853	1/2 HP	120/1 ϕ	GBDD, RVIB, WCAP, USPD	LINE VOLTAGE WALL TOGGLE	---	GRAVITY	---	---	---	OCC SENSOR	OCC SENSOR WITH 10 MINUTE DELAY
HVLS-1	GREENHECK DS-3-24-70LV	CEILING MOUNTED	DIRECT	ARENA	110,260	35 dBA	N/A	36	500 W	208/1 ϕ	USPD	LINE VOLTAGE WALL TOGGLE	---	---	---	---	---	WALL SWITCH = "ON" = "ON"	WALL SWITCH = "OFF" = "OFF"
HVLS-2	GREENHECK DS-3-24-70LV	CEILING MOUNTED	DIRECT	ARENA	110,260	35 dBA	N/A	36	500 W	208/1 ϕ	USPD	LINE VOLTAGE WALL TOGGLE	---	---	---	---	---	WALL SWITCH = "ON" = "ON"	WALL SWITCH = "OFF" = "OFF"
HVLS-3	GREENHECK DS-3-24-70LV	CEILING MOUNTED	DIRECT	ARENA	110,260	35 dBA	N/A	36	500 W	208/1 ϕ	USPD	LINE VOLTAGE WALL TOGGLE	---	---	---	---	---	WALL SWITCH = "ON" = "ON"	WALL SWITCH = "OFF" = "OFF"
CABINET FAN ACCESSORIES LEGEND:					ROOF FAN ACCESSORIES LEGEND:														
ILAP - INLINE ADAPTER PANEL SRDT - SQ-RND DUCT TRANSITION CRD - CEILING RADIATION DAMPER GBDD - GRAVITY BACKDRAFT DAMPER MGRIL - METAL GRILLE KIT RVIB - RIS PAD VIBRATION ISOLATORS RCAP - ROOF CAP SVIB - SPRING VIBRATION ISOLATORS WCAP - WALL CAP w/ BDD USPD - UNIT MTD. SPEED CONTROL WSPD - WALL MTD. SPEED CONTROL WTMR - WALL MTD. OFF - DELAY TIMER					GBDD - GRAVITY BACKDRAFT DAMPER GRSE - GREASE CUP MBDD - MOTORIZED BACKDRAFT DMPR. DS - DISC. SWITCH (TYPE NOTED) HOOD - WEATHER RESISTANT HOOD FILT - ANGLED FILTER BOX NFFPA96 - ALL NFPA 96 ACCESSORIES HING - HINGED W/CHAIN CURBV - PREFABRICATED VENTED ROOF CURB (HEIGHT) CURB - PREFABRICATED ROOF CURB (HEIGHT) CURBP - PREFABRICATED PITCHED ROOF CURB (HEIGHT) RVIB - RIS PAD VIBRATION ISOLATORS BIRD - BIRD SCREEN														



TYPE I GREASE EXHAUST HOOD SCHEDULE													
TAG	CONFIG	DIMENSIONS			COOK SURF. TEMP (F)	MANUFACTURER MODEL No.	EXHAUST AIRFLOW (CFM)	MAKEUP AIRFLOW (CFM)	SHELL CONSTRUCTION	GREASE REMOVAL DEVICE	STANDARDS COMPLIANCE	LIGHTING	ACCESSORIES & REMARKS
		W	L	H									
KH-1	WALL CANOPY	4'-0"	8'-6"	2'-0"	400	ACCUREX XBWE	1870	1496	430 SS WHERE EXPOSED	SS BAFFLES	UL 710, NSF	(1) INC	UTIL. CTLS, PERF. FSUP, PIPE, FLTS, HEAT
ACCESSORIES:													
UTIL - INTEG. UTILITY CABINET CTLS - FANS & LIGHT CONTROLS WIRE - PRE-WIRED CONTROLS PERF - PERF. MAKEUP PLENUM BACK - BACK MAKEUP PLENUM FSUP - UL300 FIRE SUPP. SYS.						PIPE - PRE-PIPED FIRE SUPP. LITS - INCAND. VAPORTIGHT LITS. FLTS - FLOOR VAPORTIGHT LITS. ENDP - END PANELS ENCP - ENCLOSURE PANELS HEAT - HEAT SENSOR (110F)							

AIR DEVICE SCHEDULE				
TAG	AIR DEVICE DESCRIPTION	DESIGN BASIS MANUFACTURER & MODEL No.	REQUIRED FEATURES	ACCESSORIES & REMARKS
D2	SQUARE PLAQUE CORE CEILING DIFFUSER	TITUS OMNI-AA	SQUARE AIR DIFFUSION PLAQUE CORE ROUND DUCT CONNECTION	PROVIDE DAMPER IN BRANCH DUCT; PROVIDE D-75 OPPOSED BLADE DAMPER; SEE DUCT RUN-OUT TO DIFFUSER DETAIL
R1	SURFACE DOUBLE DEFLECTION LOUVERED REGISTER	TITUS 300FL	DOUBLE-DEFLECTION, ADJUSTABLE VERTICAL FRONT AIRFOIL BLADES .75" CENTERS, ADJUSTABLE HORIZONTAL REAR AIRFOIL BLADES .75" CENTERS.	EXTRUDED ALUMINUM CONSTRUCTION. ALUMINUM OPPOSED BLADE DAMPER. 1.25" BORDER.
R3L1	SURFACE RECTANGULAR SINGLE DEFLECTION CURVED BLADE REGISTER	TITUS 250-AA	SINGLE DEFLECTION CURVED BLADE CONFIGURATIONS: L1: ONE-WAY, LONG BLADES	INTEGRAL MULTI-SHUTTER DAMPER. 1.25" FLUSH SURFACE BORDER.
G1 G1(F)	RECTANGULAR EGGRATE GRILLE	TITUS 50F 50FF (FILTER)	0.5"x0.5"x1" CUBED CORE. (F): FILTER	ALUMINUM CONSTRUCTION AND CUBED-CORE. GALVANIZED STEEL OPPOSED BLADE DAMPER. 1.25" FLUSH SURFACE BORDER.
AIR DEVICE NOTES:				
1. DEVICES ARE 2x2 LAY-IN (BORDER TYPE 3) UNLESS NOTED OTHERWISE. TAG SUFFIX OF "T" INDICATES A NARROW TEE (NT) MOUNTING AND "S" INDICATES SURFACE-MOUNTED (BORDER TYPE 1).				
2. DEVICES WITH TAG SUFFIX OF "PT" SHALL INCLUDE PLASTER FRAME TRIM.				
3. DEVICES SHALL BE ALUMINUM CONSTRUCTION UNLESS NOTED OTHERWISE.				
4. FINISH SHALL BE WHITE ANODIC ACRYLIC UNLESS NOTED OTHERWISE. (AS APPLICABLE) REFER TO ARCHITECTURAL DOCS FOR COLOR SELECTION AND CEILING GRID TYPE (E.G. NARROW TEE, ETC.)				
5. WHERE INTERIOR OF AIR DEVICE (INCLUDING DAMPER) IS VISIBLE, INTERIOR OF DEVICE SHALL BE PAINTED FLAT BLACK.				



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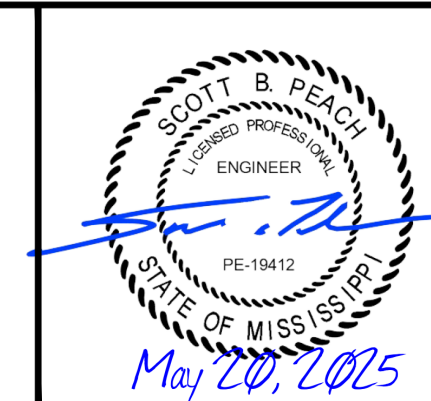
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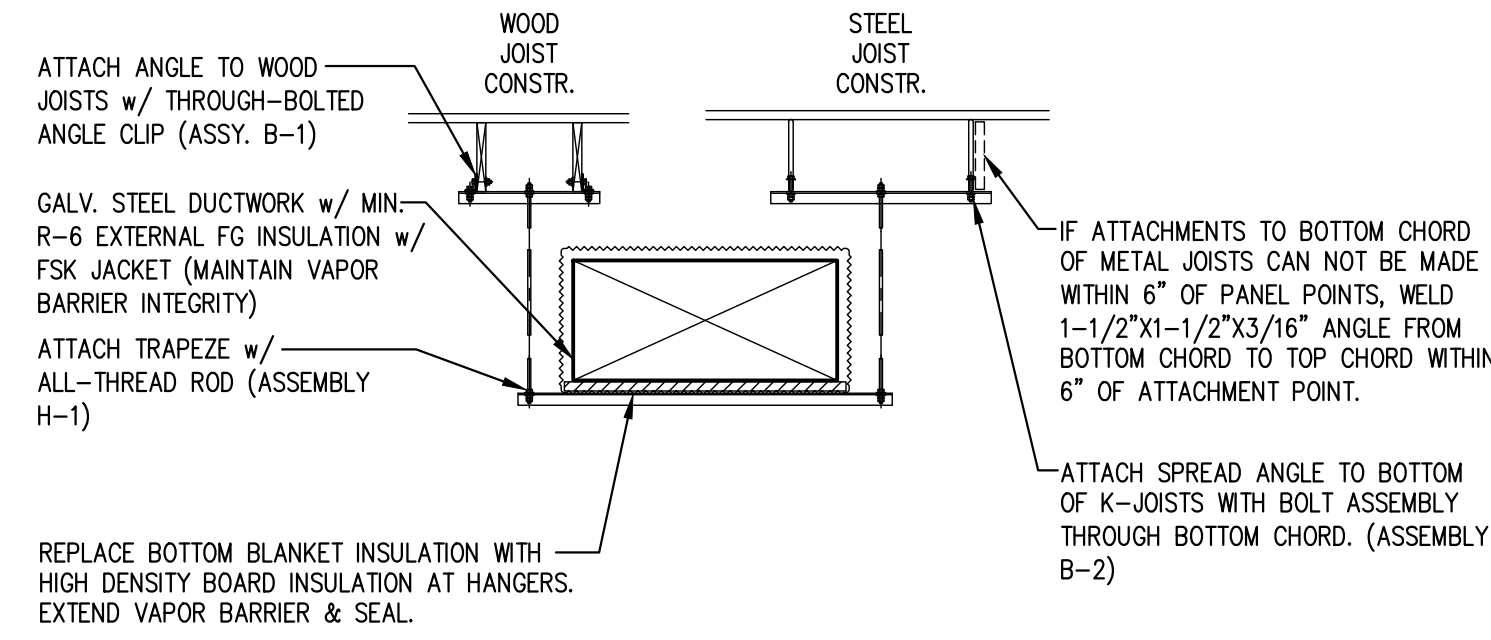
WORKING NUMBER: M3.02 DRAWING NUMBER: -

BUILDING ATTACHMENT ASSEMBLY B-1 (SPREAD ANGLE TO WOOD JOISTS) 10-FT. SPACING					
SPREAD	ANGLE CLIPS	SPREAD ANGLE	BOLTS/NUTS	FLAT WASHERS	LOCK WASHERS
UP TO 24"	2x3x1/4	2x2x3/16	3/8-16, GR.5	1.5 OD, .05 THK.	.630D, .09 THK.

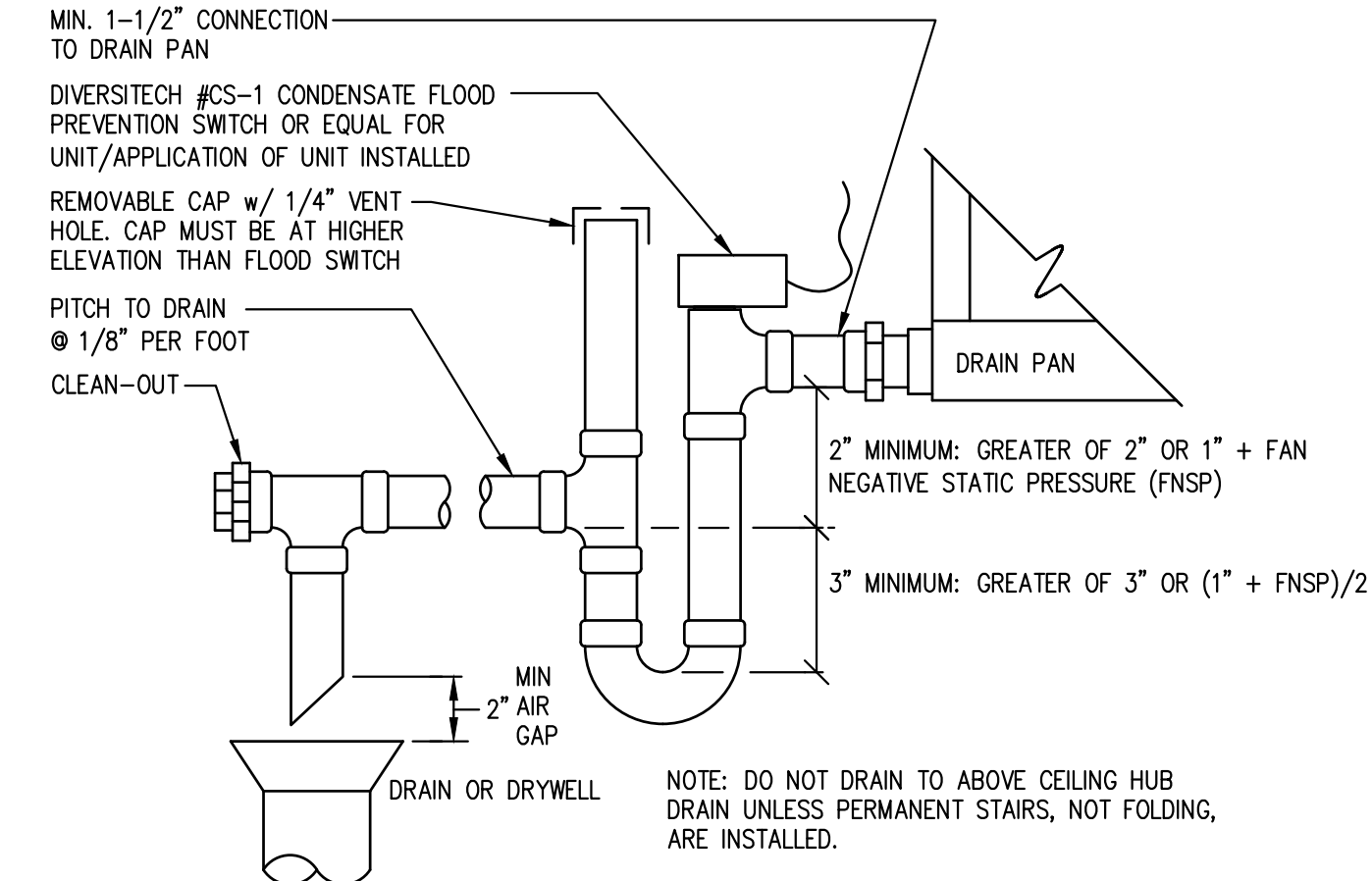
BUILDING ATTACHMENT ASSEMBLY B-2 (SPREAD ANGLE TO STEEL JOISTS) 10-FT. SPACING					
SPREAD	SPREAD ANGLE	BOLTS/NUTS	FLAT WASHERS	LOCK WASHERS	
UP TO 48"	2x3x3/16	3/8-16, GR.5	1.5 OD, .05 THK.	.630D, .09 THK.	
49" TO 72"	2x3x1/4	7/16-14, GR.5	1.5 OD, .07 THK.	.630D, .09 THK.	
73" TO 96"	3x4x1/4	1/2-13, GR.5	1.5 OD, .09 THK.	.630D, .09 THK.	

BUILDING ATTACHMENT ASSEMBLY H-1 (SINGLE TIER DUCT HANGER) 10-FT. SPACING					
DUCT WIDTH	TRAPEZE	ALL-THREAD RODS	FULL NUTS	FLAT WASHERS	LOCK WASHERS
UP TO 30"	1.5x1.5x3/16	3/8-16, L.S.	3/8-16, GR.2	1.5 OD, .05 THK.	.630D, .09 THK.
31" TO 54"	1.5x1.5x1/4	3/8-16, L.S.	3/8-16, GR.2	1.5 OD, .07 THK.	.630D, .09 THK.
55" TO 84"	2x2x1/4	1/2-13, L.S.	1/2-13, GR.2	1.5 OD, .09 THK.	.630D, .09 THK.
85" TO 108"	2.5x2.5x1/4	1/2-13, L.S.	1/2-13, GR.2	1.5 OD, .09 THK.	.630D, .09 THK.

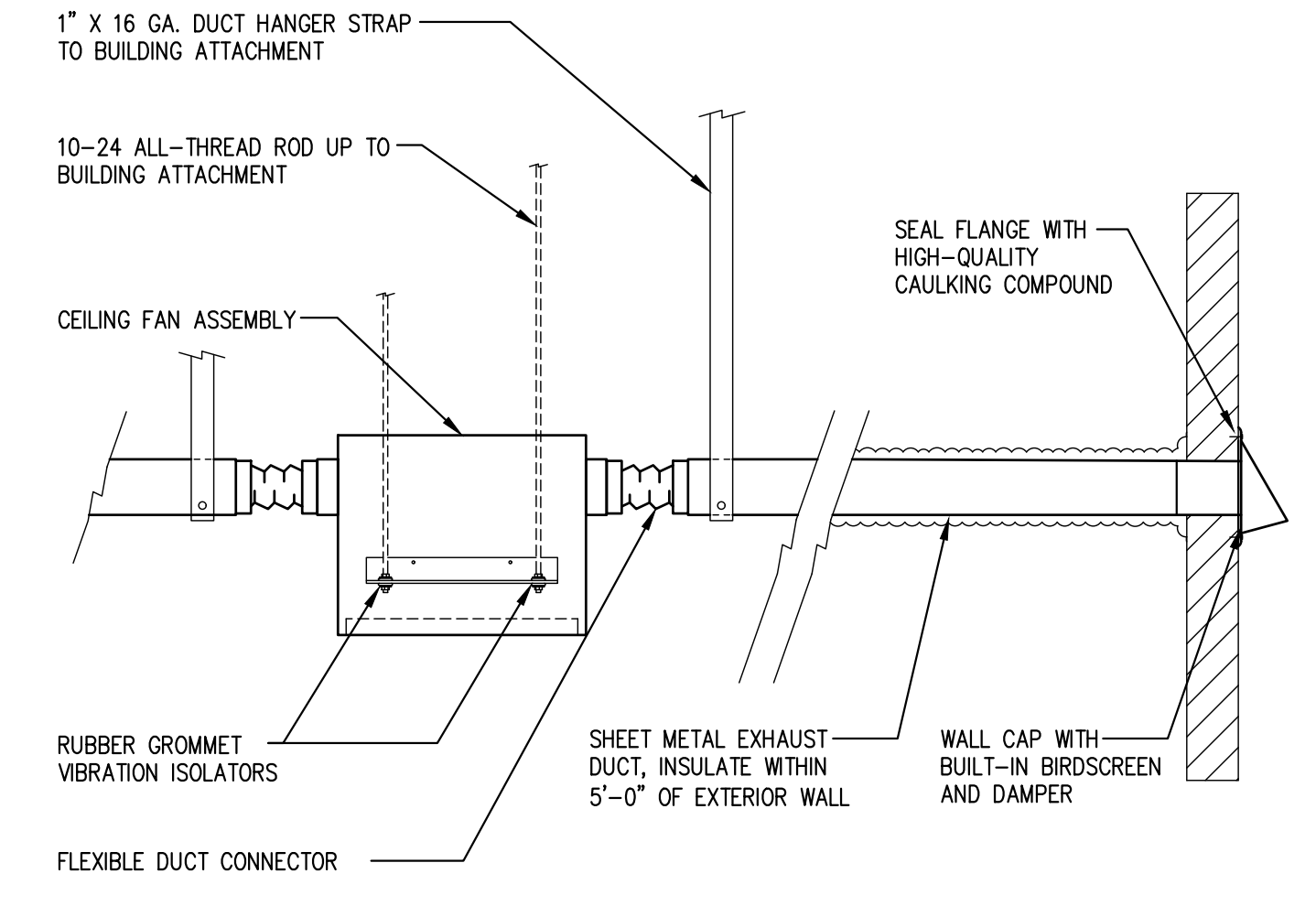
BUILDING ATTACHMENT ASSEMBLY H-2 (UPPER TIER DUCT HANGER) 10-FT. SPACING					
DUCT WIDTH	TRAPEZE	ALL-THREAD RODS	FULL NUTS	FLAT WASHERS	LOCK WASHERS
UP TO 30"	2x2x1/4	3/8-16, L.S.	3/8-16, GR.2	1.5 OD, .07 THK.	.630D, .09 THK.
31" TO 54"	2x2x1/4	1/2-13, L.S.	1/2-13, GR.2	1.5 OD, .09 THK.	.630D, .09 THK.
55" TO 78"	2.5x2.5x3/16	1/2-13, L.S.	1/2-13, GR.2	1.5 OD, .09 THK.	.630D, .09 THK.
79" TO 96"	2.5x2.5x1/4	5/8-11, L.S.	5/8-11, GR.2	1.5 OD, .09 THK.	.630D, .09 THK.



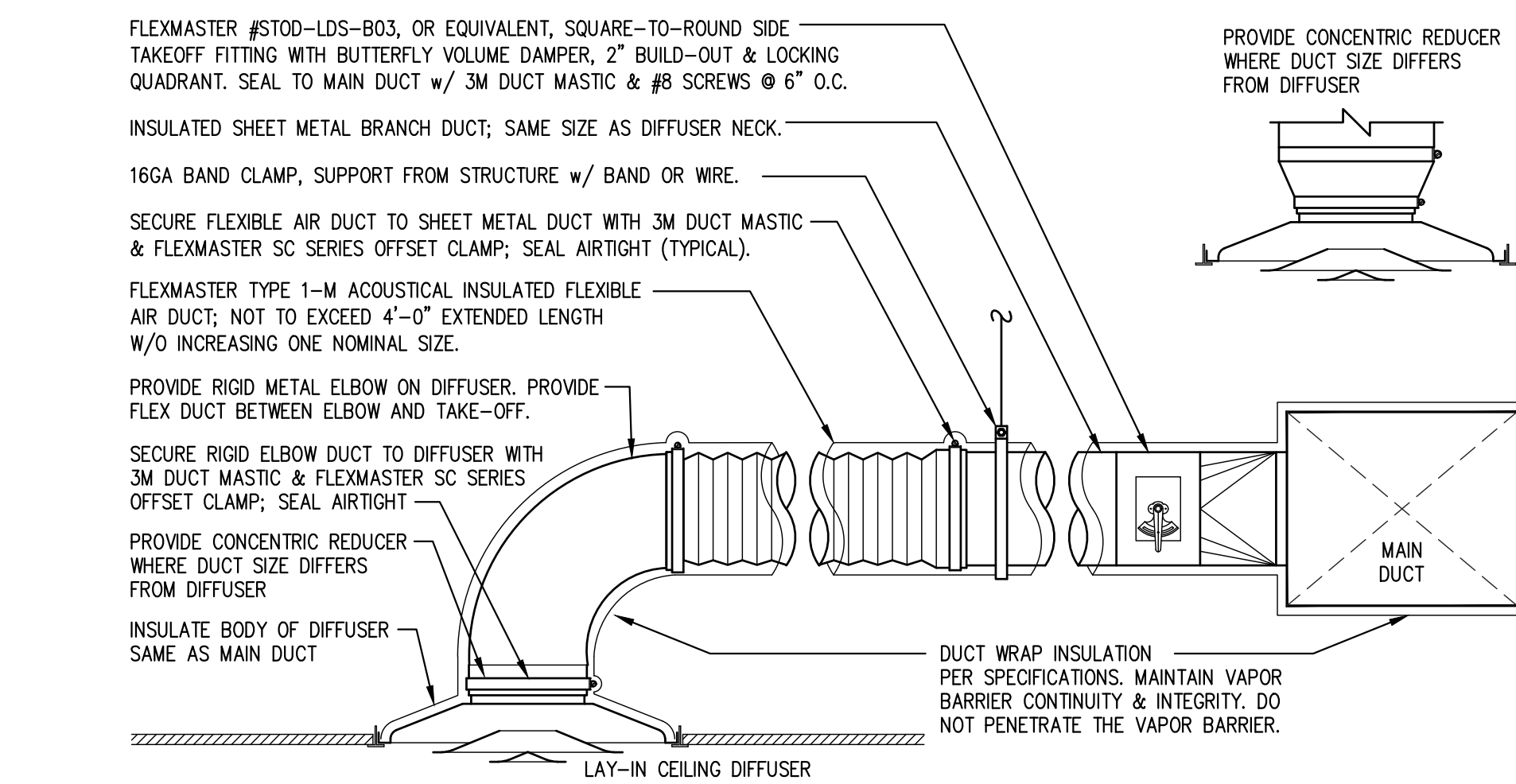
A RECTANGULAR DUCT HANGER DETAIL
M4.01 SCALE: NONE



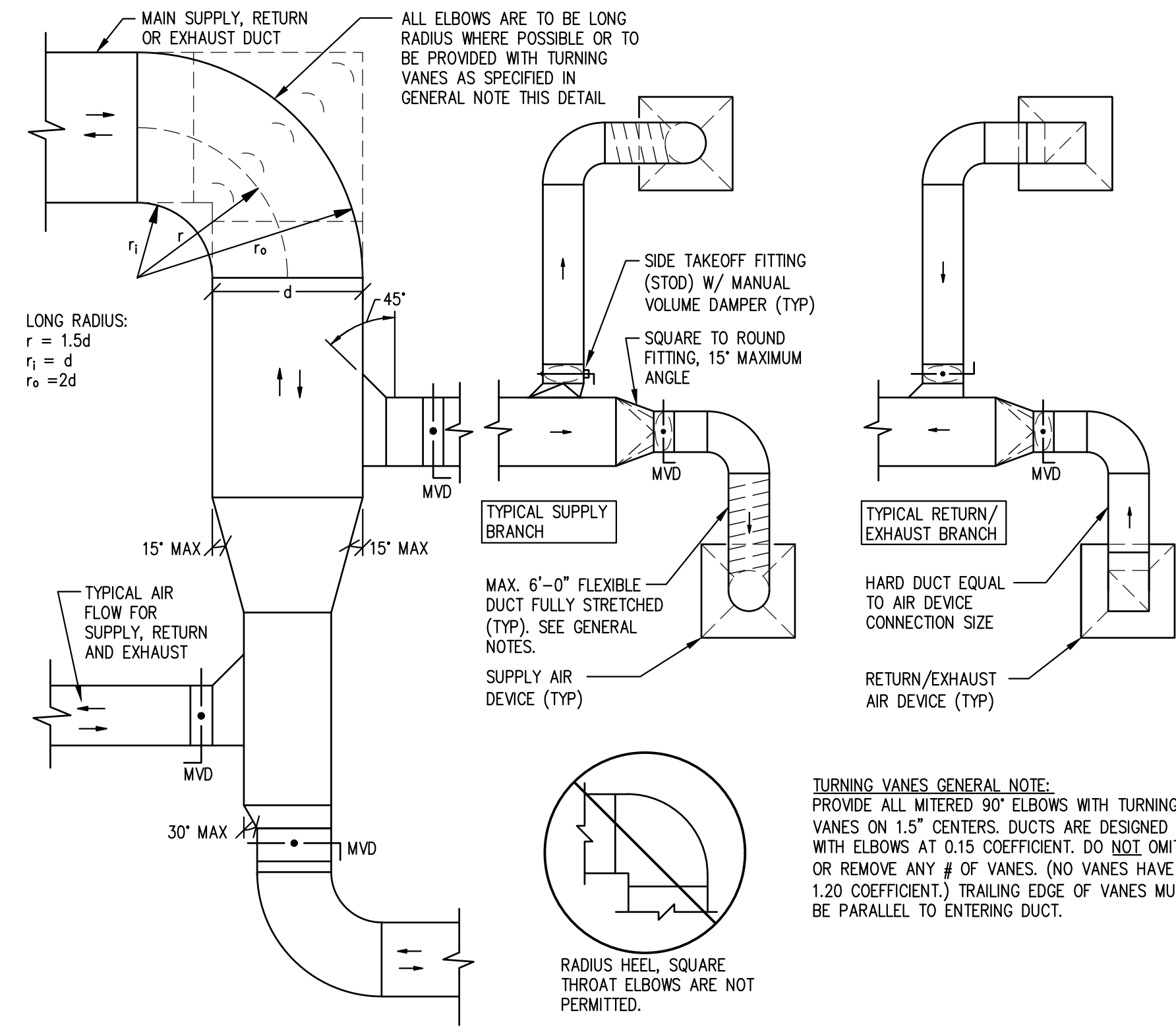
B COIL CONDENSATE TO INTERIOR DRAIN DETAIL
M4.01 SCALE: NONE



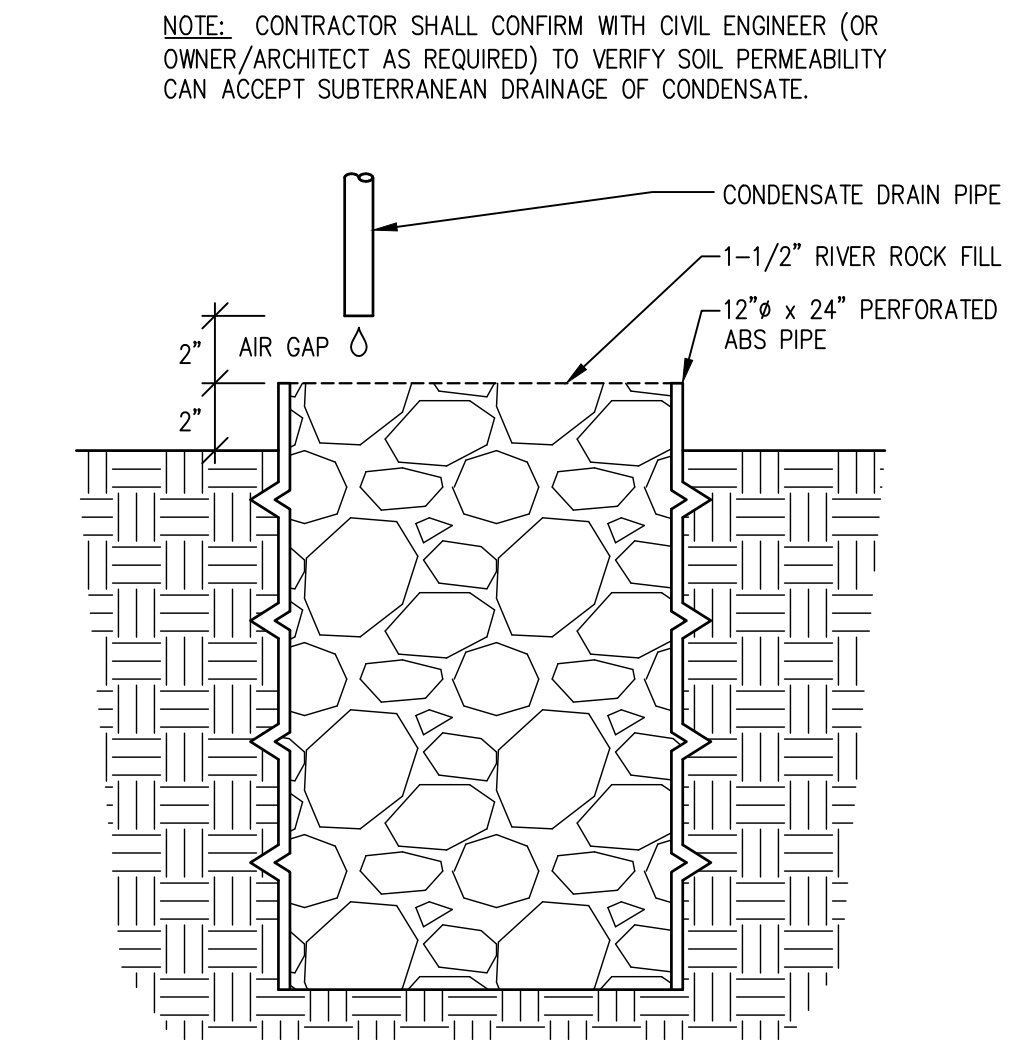
C CABINET FAN WALL CAP
M4.01 SCALE: NONE



D DUCT BRANCH DETAIL
M4.01 SCALE: NONE



E TYPICAL LOW PRESSURE SUPPLY RETURN AND EXHAUST DUCT DETAIL
M4.01 SCALE: NONE



F DRYWELL DRAIN DETAIL
M4.01 SCALE: NONE



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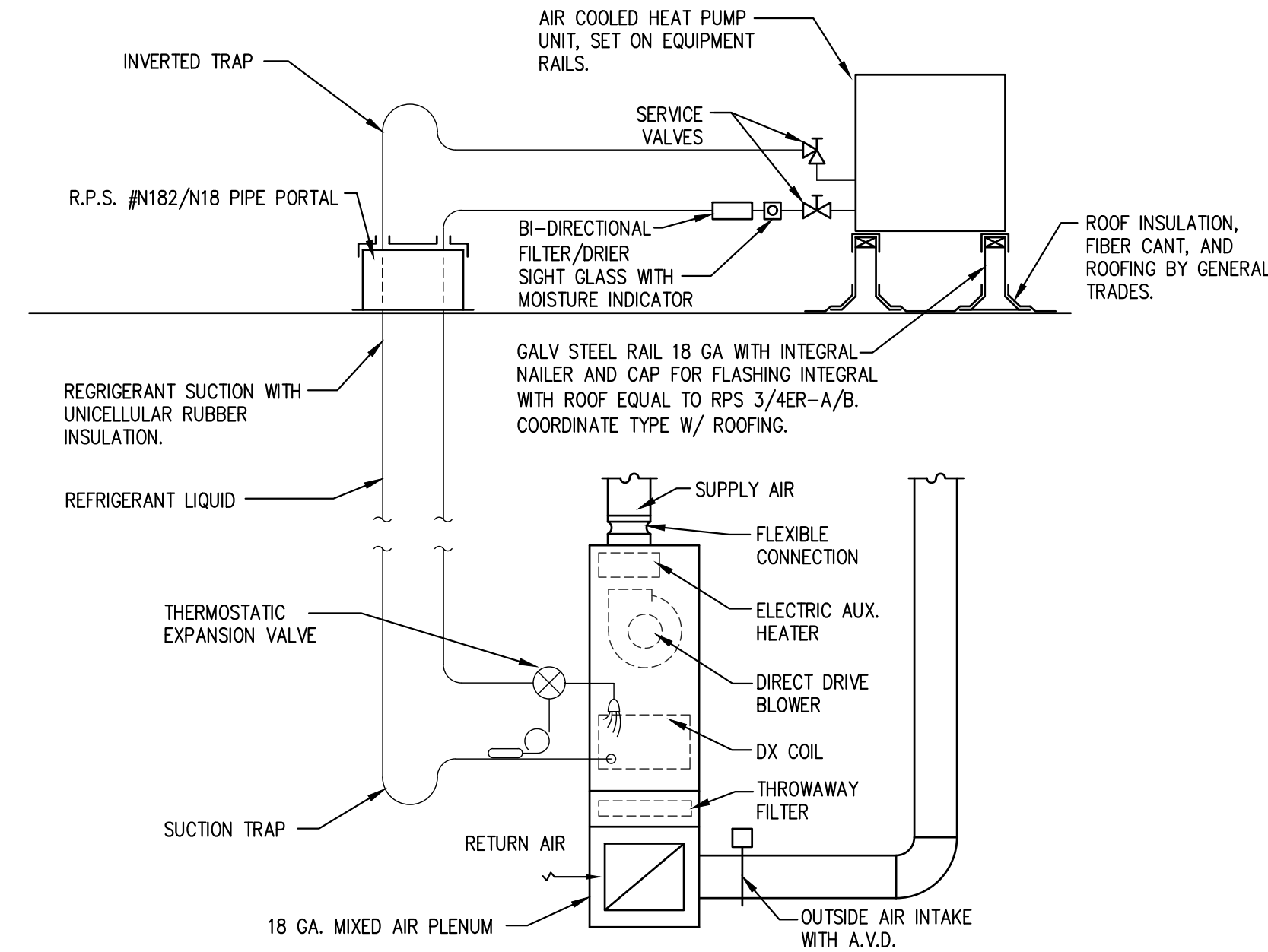
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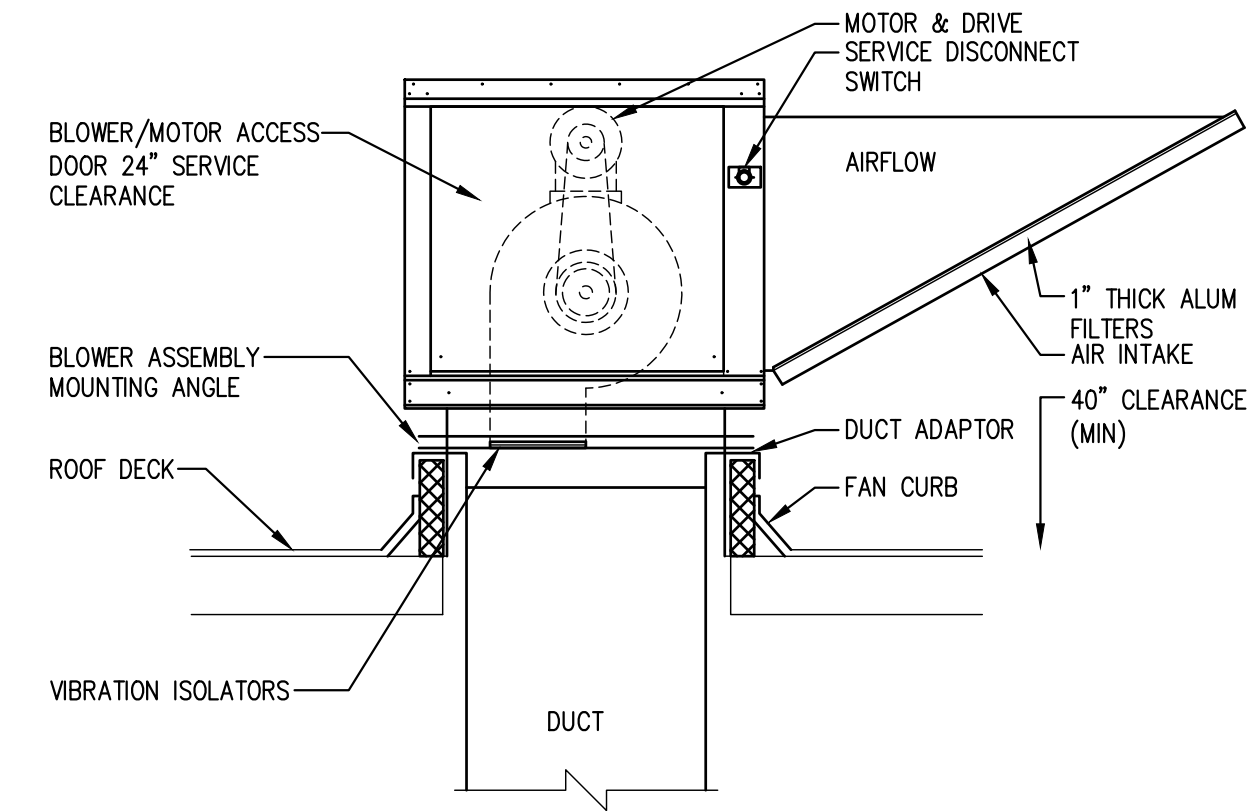


HVAC DETAILS

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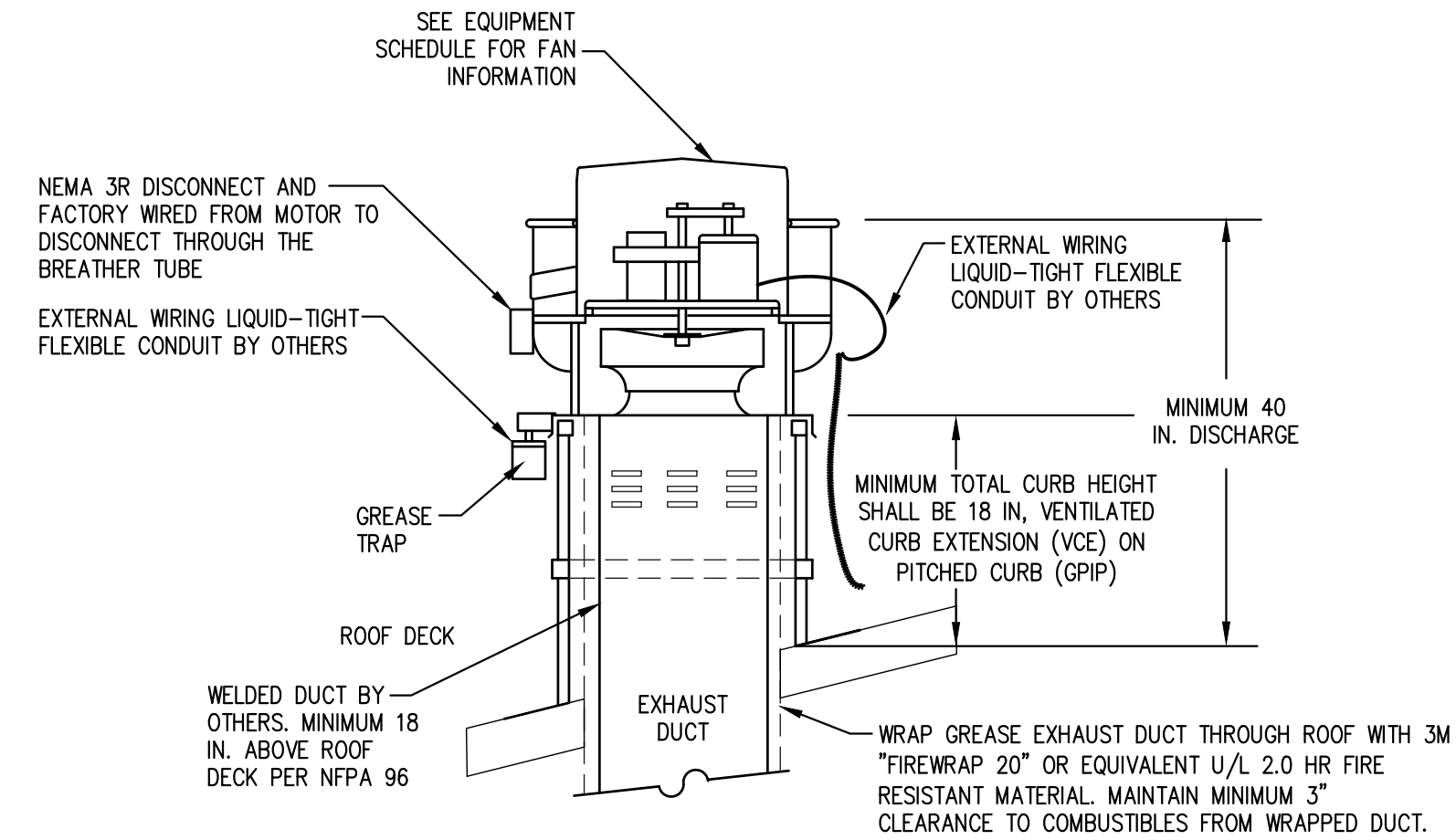


A SPLIT SYSTEM HEAT PUMP DIAGRAM
M4.02 SCALE: NTS

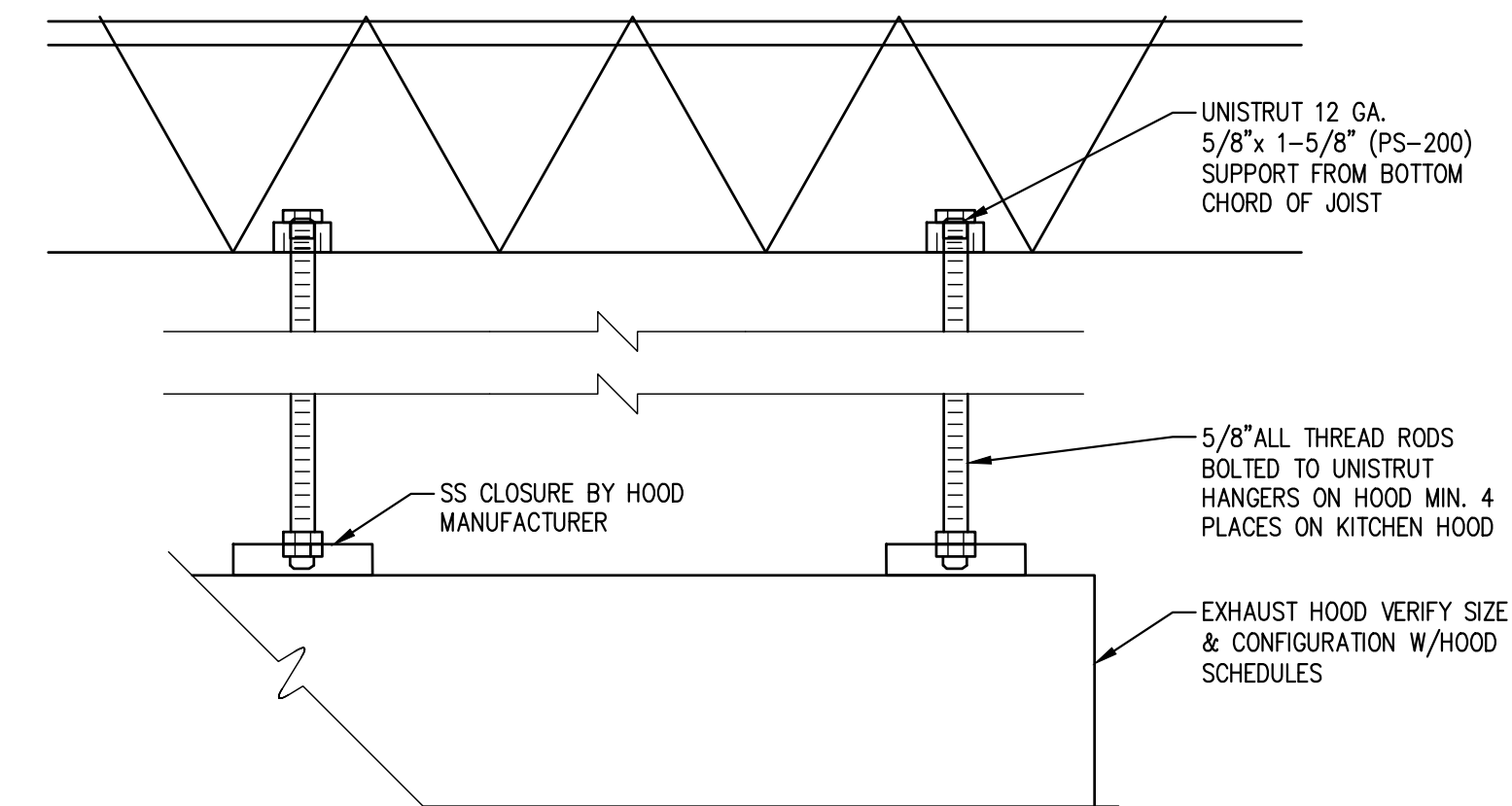


NOTE: EQUIPMENT SHALL BE ANCHORED TO WITHSTAND TOTAL WIND LOAD OF 115 MPH.

B ROOF MOUNTED FAN DETAIL
M4.02 SCALE: NONE



C KITCHEN EXHAUST FAN INSTALLATION DETAIL
M4.02 SCALE: NTS



D KITCHEN HOOD SUPPORT DETAIL
M4.02 SCALE: NONE



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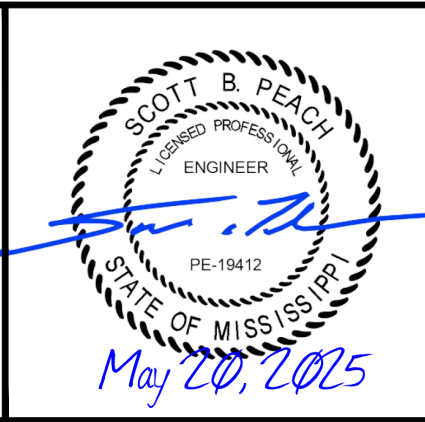
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0	05/20/25	JME	ISSUED FOR PERMIT	FILENAME: 240909 East Central Arena-HVAC.dwg
				SCALE: AS NOTED
				SURVEYED BY:
				DSGN: DMG DATE:
				DRWN: JME DATE:
				CHKD: SBP DATE:
				QA/QC: DATE:

VERIFY SCALES
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EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS
JACKSON COUNTY BOARD OF SUPERVISORS

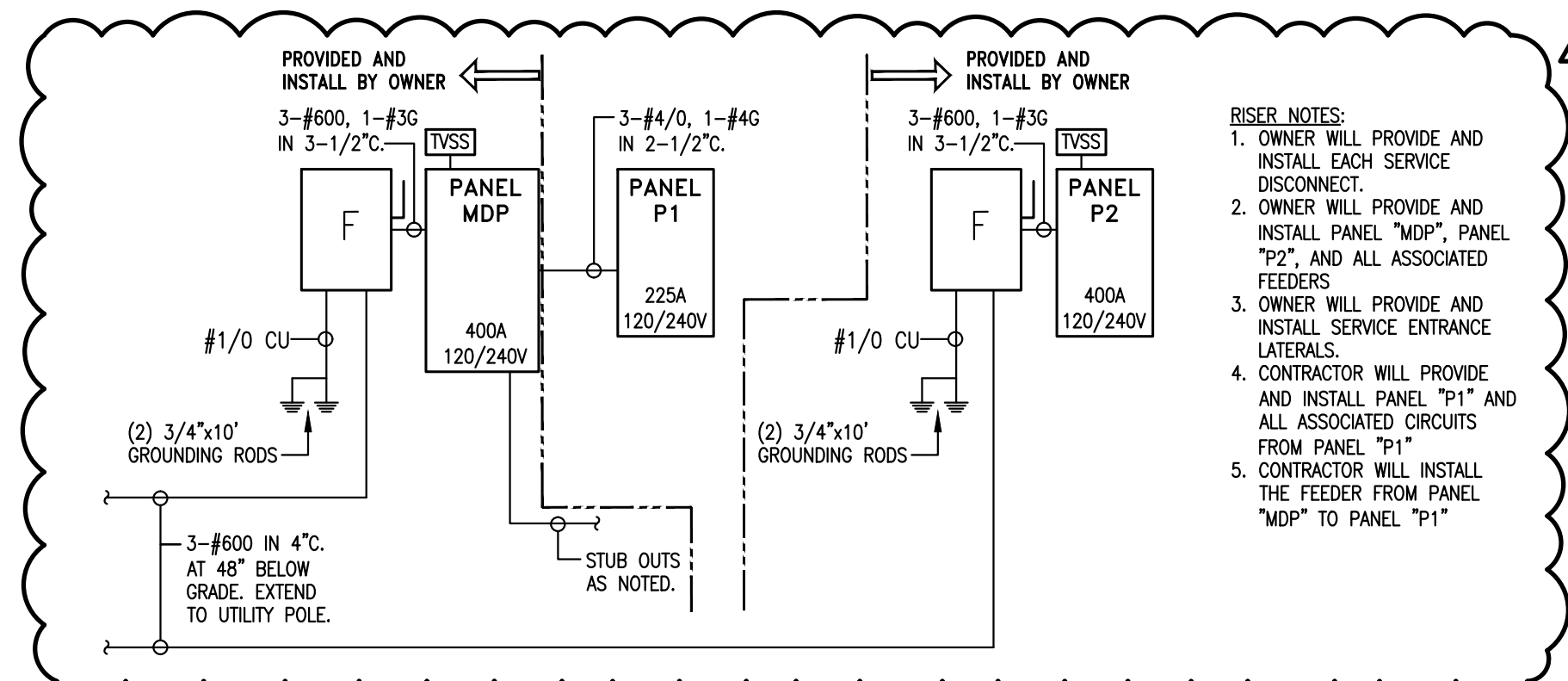


HVAC DETAILS	
WORKING NUMBER: M4.02	DRAWING NUMBER: -

ELECTRICAL LEGEND

LIGHTING	CONDUIT AND WIRE
SURFACE MOUNT, WRAP FIXTURE BATTERY BACKUP EMERGENCY/EGRESS FIXTURE BATTERY BACKUP COMBO EMERGENCY/EXIT FIXTURE LOW PROFILE, SURFACE MOUNT FIXTURE CEILING FAN, FURNISHED BY MECHANICAL	FLEXIBLE CONDUIT, SEALTITE AT WET LOCATIONS CONDUIT CONCEALED IN WALL OR ABOVE CEILING CONDUIT BELOW FLOOR OR CONCEALED IN WALL CONDUIT EXPOSED CIRCUIT CONDUCTORS IN CONDUIT MULTIPLE CIRCUIT CONDUCTORS IN CONDUIT WITH NEUTRALS GROUND CONDUCTORS IN CONDUIT CIRCUIT HOMERUN TO PANEL BOARD. XX-XX DENOTES PANEL NAME AND CIRCUIT NUMBER CONTINUATION OF CONDUIT RUN ---NUP1--- NEW UNDERGROUND PRIMARY, 1-PHASE ---NUS1--- NEW UNDERGROUND SECONDARY, 1-PHASE
SWITCHES	COMMUNICATIONS
SINGLE POLE SWITCH - 20A, 120/277V, +48" AFF, UNLESS NOTED THREE WAY SWITCH - 20A, 120/277V, +48" AFF, UNLESS NOTED 2-POLE SWITCH, MOUNT NEXT TO EQUIPMENT SERVED, UNLESS NOTED MOTION SENSOR SWITCH, WALL MOUNT 48" AFF SINGLE POLE FAN SWITCH - 20A, 120/277V, +48" AFF, UNLESS NOTED HIGH VOLUME, LOW SPEED FAN SWITCH, PROVIDED BY VENDOR, INSTALLED BY ELECT. CONTRACTOR +48" AFF IN WEATHERPROOF BOX DOUBLE POLE SWITCH W/ WEATHERPROOF COVER - 20A, 250V, +48" AFF, UNLESS NOTED	COMBO DATA/TELEPHONE OUTLET +18" AFF, UNLESS NOTED. ROUGH-IN TELEPHONE/TELEVISION TERMINAL BOARD 3/4" 4x8" FIRE RATED PLYWOOD
SWITCHGEAR	DEVICES
JUNCTION BOX FUSED SAFETY SWITCH NEMA 3R AT WET LOCATIONS LIGHT AND POWER PANELBOARD DISTRIBUTION PANELBOARD METER TRANSIENT VOLTAGE SURGE SUPPRESSOR MULTI-POLE CONTACTOR TIME CLOCK SPECIAL ELECTRICAL CONNECTION WH WATER HEATER ELECTRICAL CONNECTION EF EX. FAN ELECTRICAL CONNECTION AH AIR-HANDLER UNIT ELECTRICAL CONNECTION HP HEAT PUMP CONDENSING UNIT ELECTRICAL CONNECTION HOOD KITCHEN HOOD ELECTRICAL CONNECTION	SINGLE RECEPTACLE - 20A, 120V DUPLEX RECEPTACLE - 20A, 120V QUADRAPLEX RECEPTACLE - 20A, 120V GFI DUPLEX RECEPTACLE - 20A, 120V GFI QUADRAPLEX RECEPTACLE - 20A, 120V GFI, WEATHER RESISTANT DUPLEX RECEPTACLE - 20A, 120V WITH IN-USE WEATHERPROOF COVER SHALL BE LISTED AND IDENTIFIED AS "EXTRA DUTY". MOUNT ALL DEVICES AT +18" AFF, UNLESS NOTED OTHERWISE. * - DEVICES MOUNTED ABOVE COUNTER HEIGHTS SHALL BE 6" ABOVE BACKSPASH.

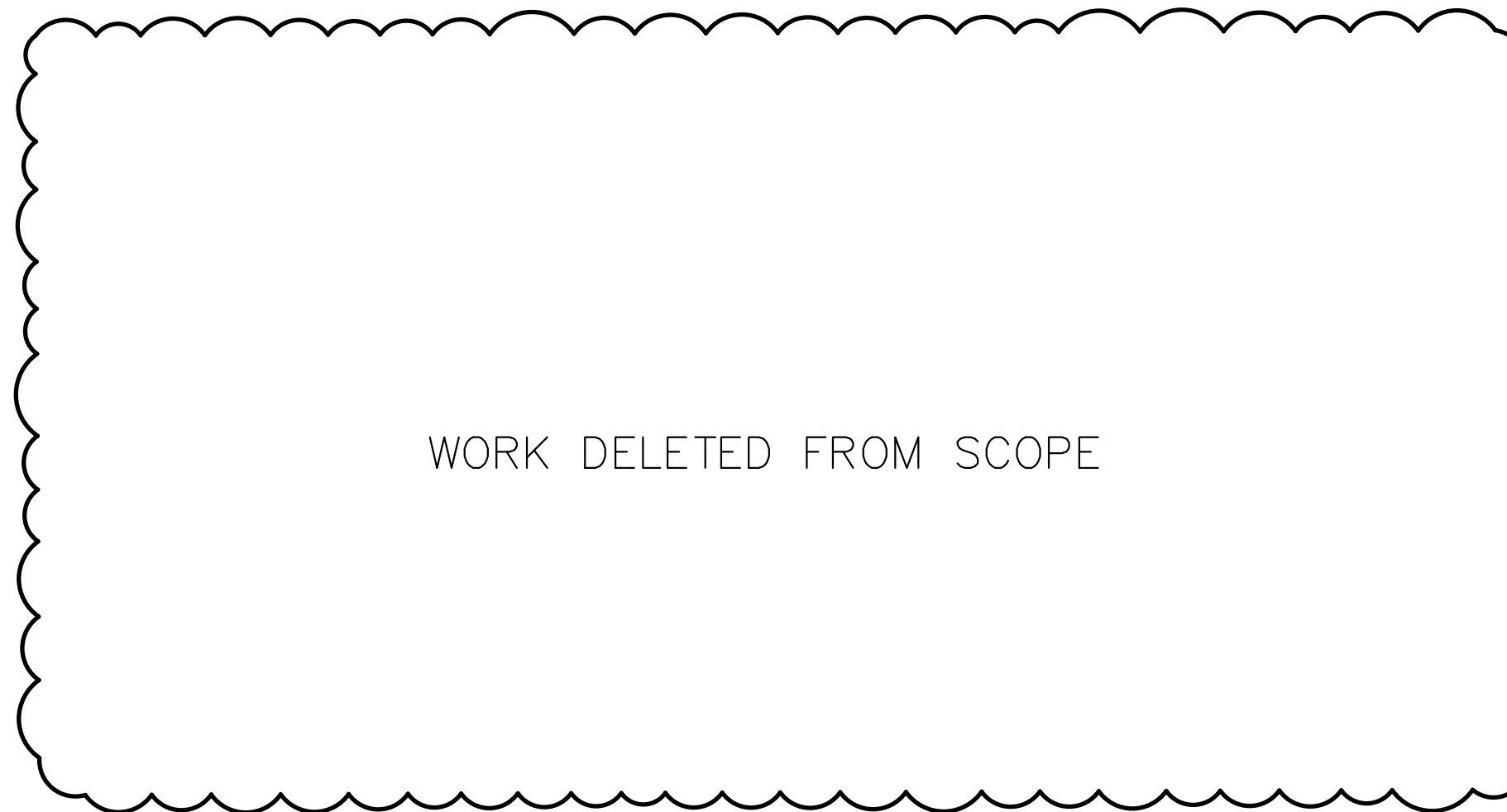
LUMINAIRE SCHEDULE					
MARK	LAMPS	MOUNTING	DESCRIPTION	MANUFACTURER	EQUALS
C1	LED	SURFACE CEILING	LED, 7" LOW PROFILE, SURFACE WISELECTABLE CCT	JUNO JSF-7IN-10LM-SWW5-90CRI-120-FRPC-WH-JSFTRIM-7IN-WH	OR E UAL
EM	LED	WALL 96" A.F.F.	EMERGENCY/EGRESS FIXTURE	ISOLITE BUG-6W-WH-MB-SD	OR E UAL
EWP	LED	WALL ABOVE DOOR	EMERGENCY/EGRESS FIXTURE, EXTERIOR WITH PHOTOCELL	ISOLITE OWL-EM-BZ-MB	OR E UAL
H1	LED	SURFACE/STRUCTURE	LED, HI-BAY FIXTURE	LITHONIA RBEL-AL013-1800LM-MD-UVOLT-SWW3-80CRI-DBL	OR E UAL
L1	LED	SURFACE CEILING	LED, 4 SURFACE WRAP, POLYCARBONITE LENS	KENALL MLHA5-48-R-MW-PP-45T-27/65K8-ATW-DV	OR E UAL
W1	LED	WALL VERIFY	LED, EXTERIOR WALL PACK	LITHONIA TWX1-LED-P2-40K-MVOLT-DDBXD	OR E UAL
W2	LED	WALL VERIFY	LED, EXTERIOR WALL PACK	LITHONIA TWX2-LED-P3-40K-MVOLT-DDBXD	OR E UAL
W3	LED	WALL VERIFY	LED, EXTERIOR SPORTS LIGHT	SLG SPRING LIGHTING GROUP FSP-900-N3-G2-HVU-57K-B-TR-SP-B	OR E UAL
XE	RED LED	WALL/CEILING	COMBO EXIT/EMERGENCY EGRESS - 1 SIDE - ALUMINUM HOUSING	ISOLITE DCL-R-U-BA-BA-MTEBP	OR E UAL



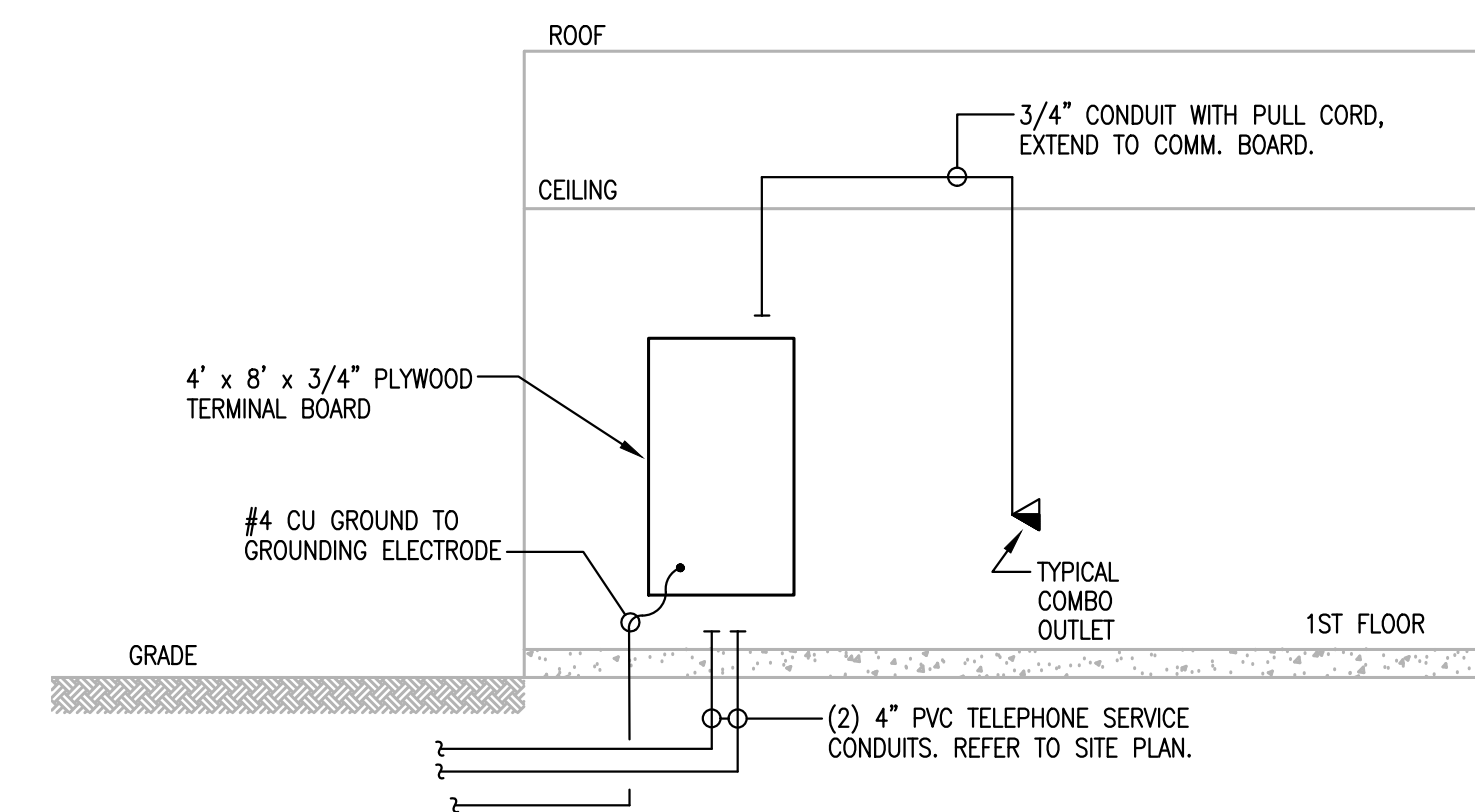
1 POWER RISER DETAIL
E0.00 SCALE: NOT TO SCALE



2 LIGHTING CONTACTOR DETAIL
E0.00 SCALE: NOT TO SCALE



3 TRANSFORMER PAD DETAIL
E0.00 SCALE: NOT TO SCALE



4 TYPICAL COMMUNICATIONS WIRING DETAIL
E0.00 SCALE: NOT TO SCALE



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MS CA : E-2625

SP ENGINEERING NO.: 240909

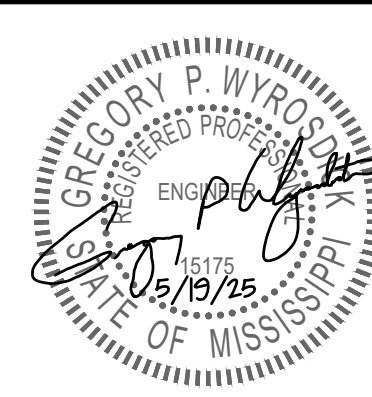
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NEEL-SCHAFFER, INC., HERINAFTER REFERRED TO AS THE ENGINEER HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS			DRAWING INFORMATION	
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0	05/20/25	WH	ISSUED FOR PERMIT	FILENAME: 25-SPE-02 EPLANS
1	12/10/25	GPW	ADDENDUM #3	SCALE: AS NOTED
				SURVEYED BY:
				DSGN: WH DATE:
				DRWN: WH DATE:
				CHKD: GPW DATE:
				QA/QC: DATE:

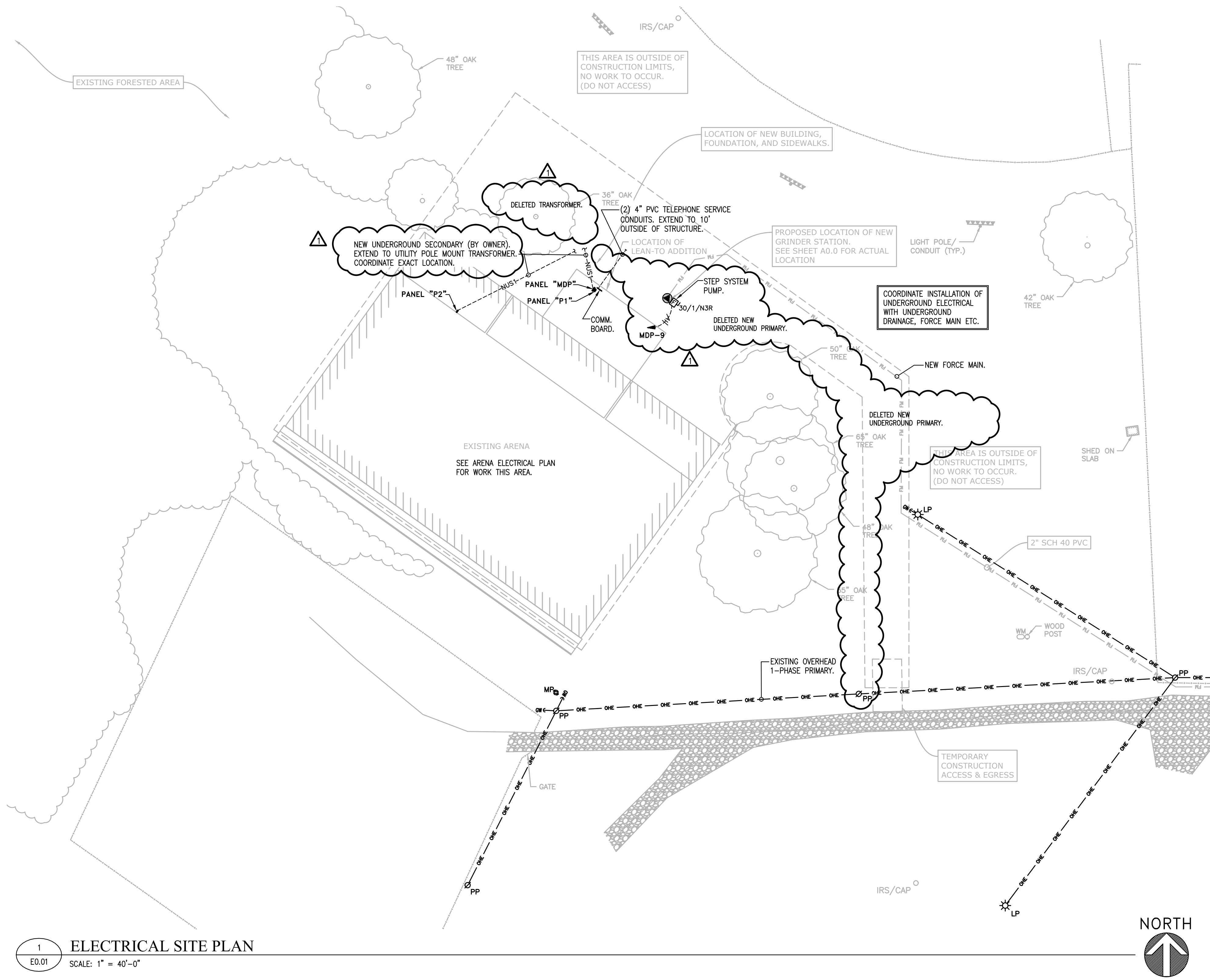
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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS**

JACKSON COUNTY BOARD OF SUPERVISORS

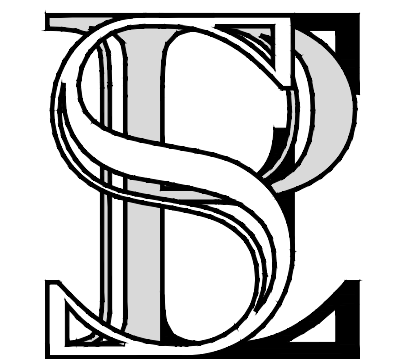
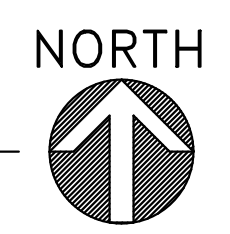


ELECTRICAL LEGEND, LUMINAIRE SCHEDULE, DETAILS	
WORKING NUMBER: E0.00	DRAWING NUMBER:



1
E0.01

ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"



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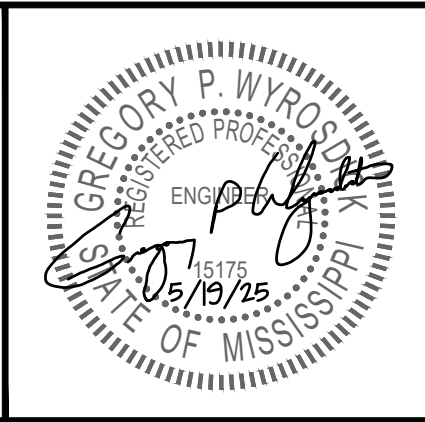
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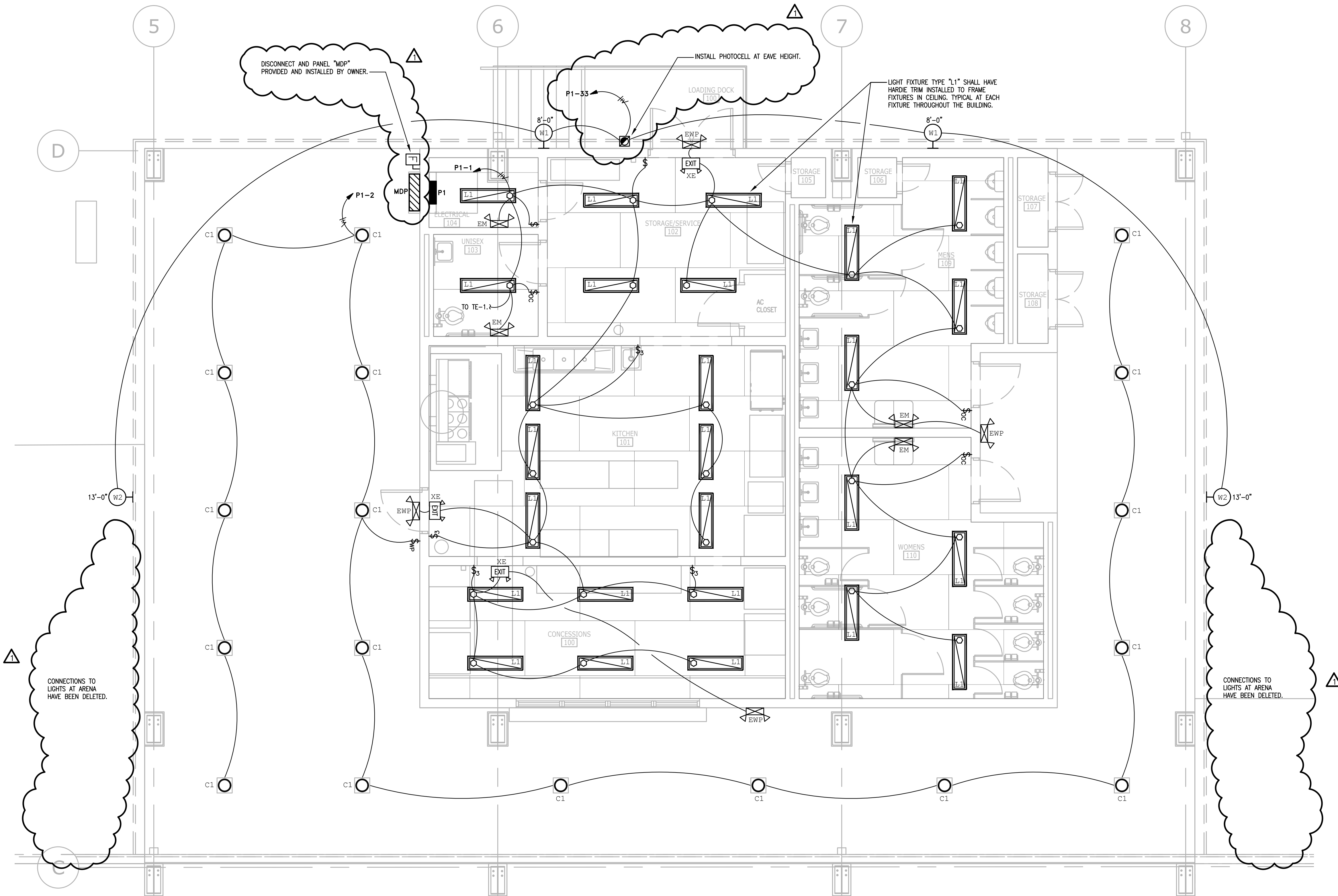
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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS**

JACKSON COUNTY BOARD OF SUPERVISORS



ELECTRICAL SITE PLAN	
WORKING NUMBER: E0.01	DRAWING NUMBER:



1
ENLARGED LIGHTING PLAN
SCALE: 1/4" = 1'-0"

WELCON
ELECTRICAL CONSULTANTS, PLLC
9414 THREE RIVERS RD., SUITE #4
GULFPORT, MISSISSIPPI 39503
259.822.8000
WEC PROJECT #: 25-SPE-02

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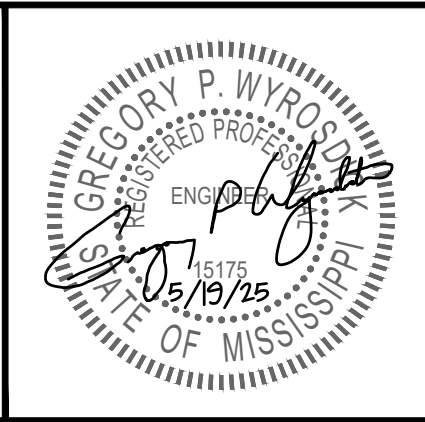
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1	12/10/25	GPW	ADDENDUM #3	SCALE:	AS NOTED
				SURVEYED BY:	
				DSGN:	WH DATE:
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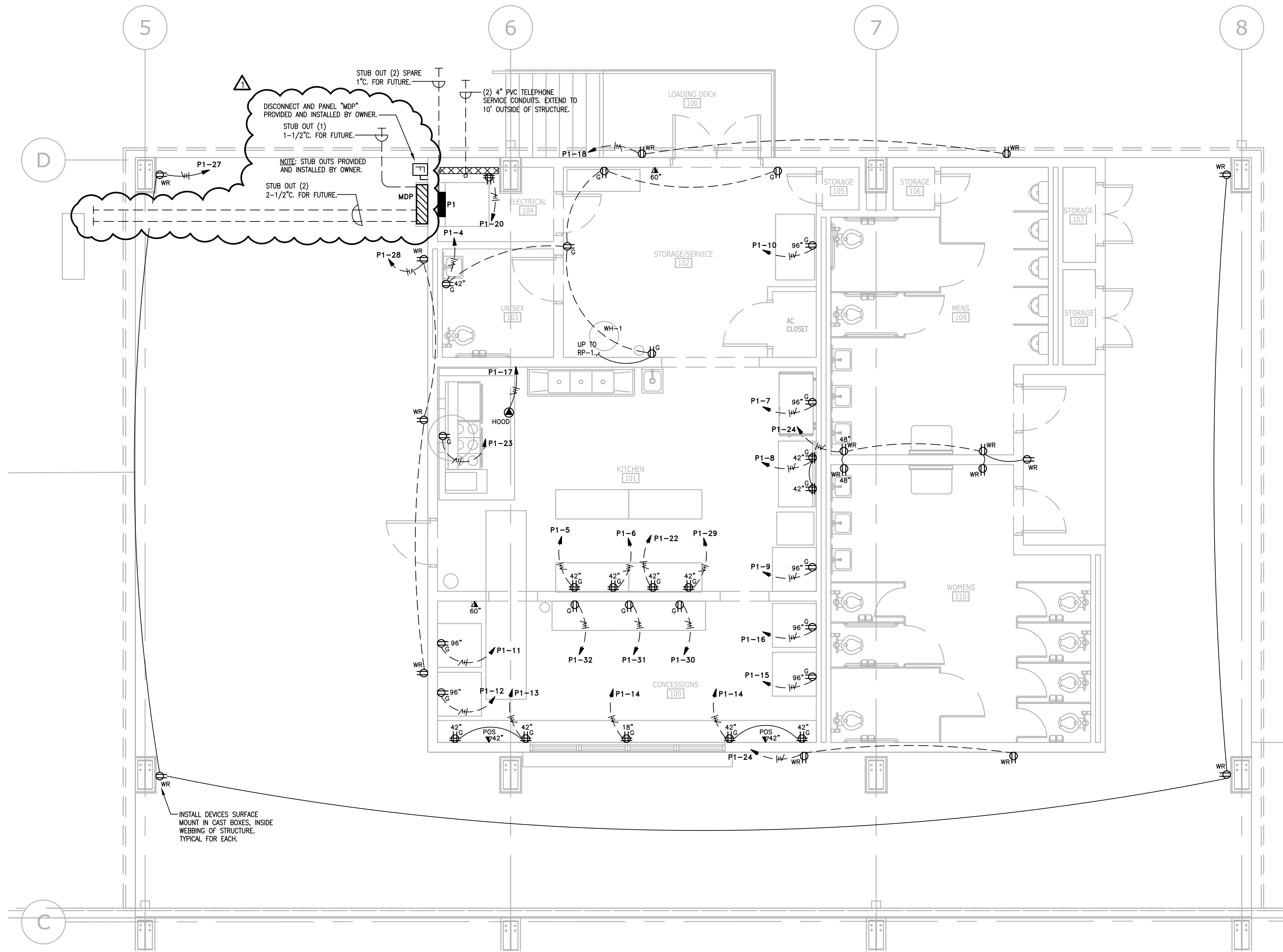
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**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS**

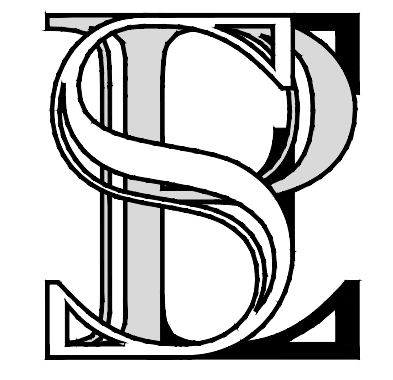
JACKSON COUNTY BOARD OF SUPERVISORS



ENLARGED LIGHTING PLAN	
WORKING NUMBER: E1.00	DRAWING NUMBER:




1
E1.01
ENLARGED POWER & COMMUNICATIONS PLAN
 SCALE: 1/4" = 1'-0"



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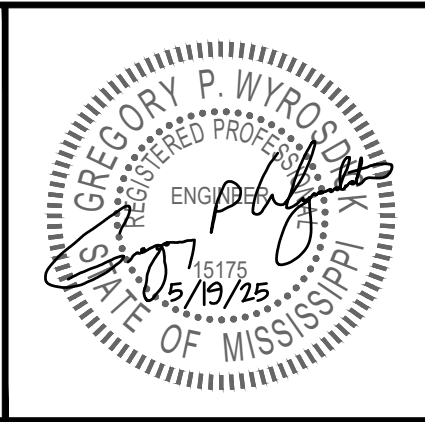
SP ENGINEERING NO.: 240909

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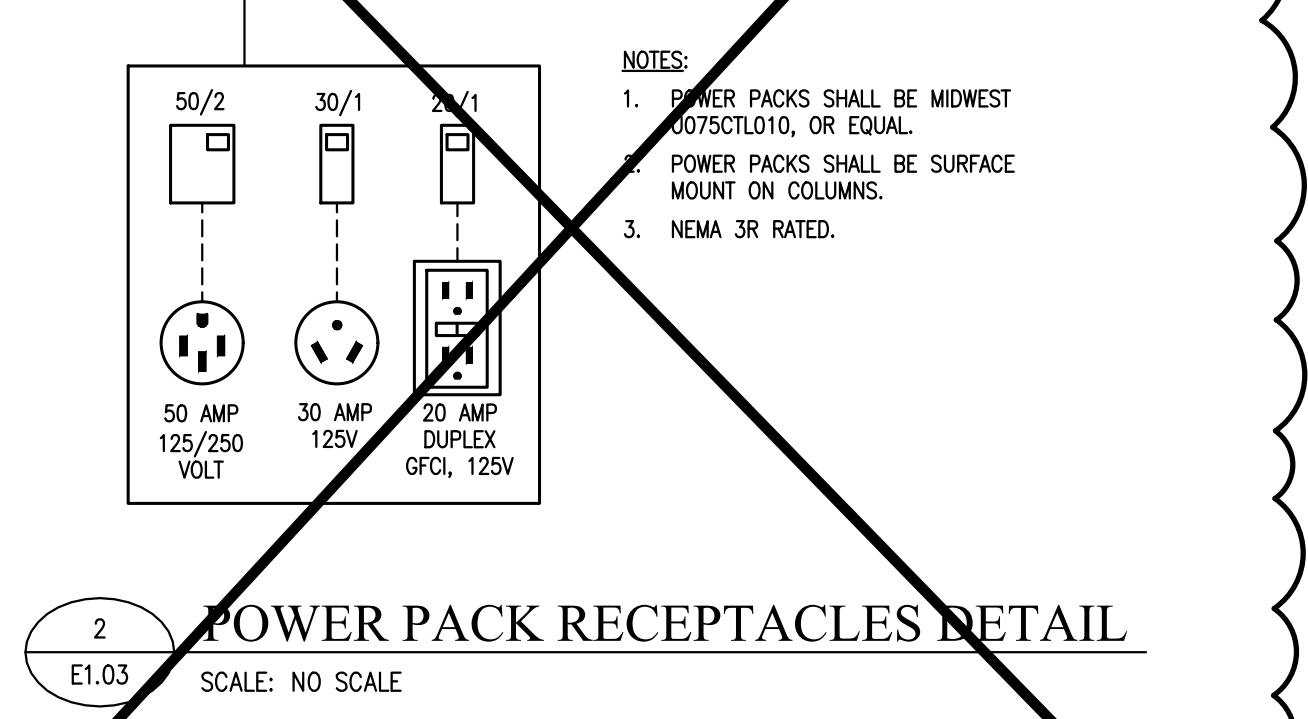
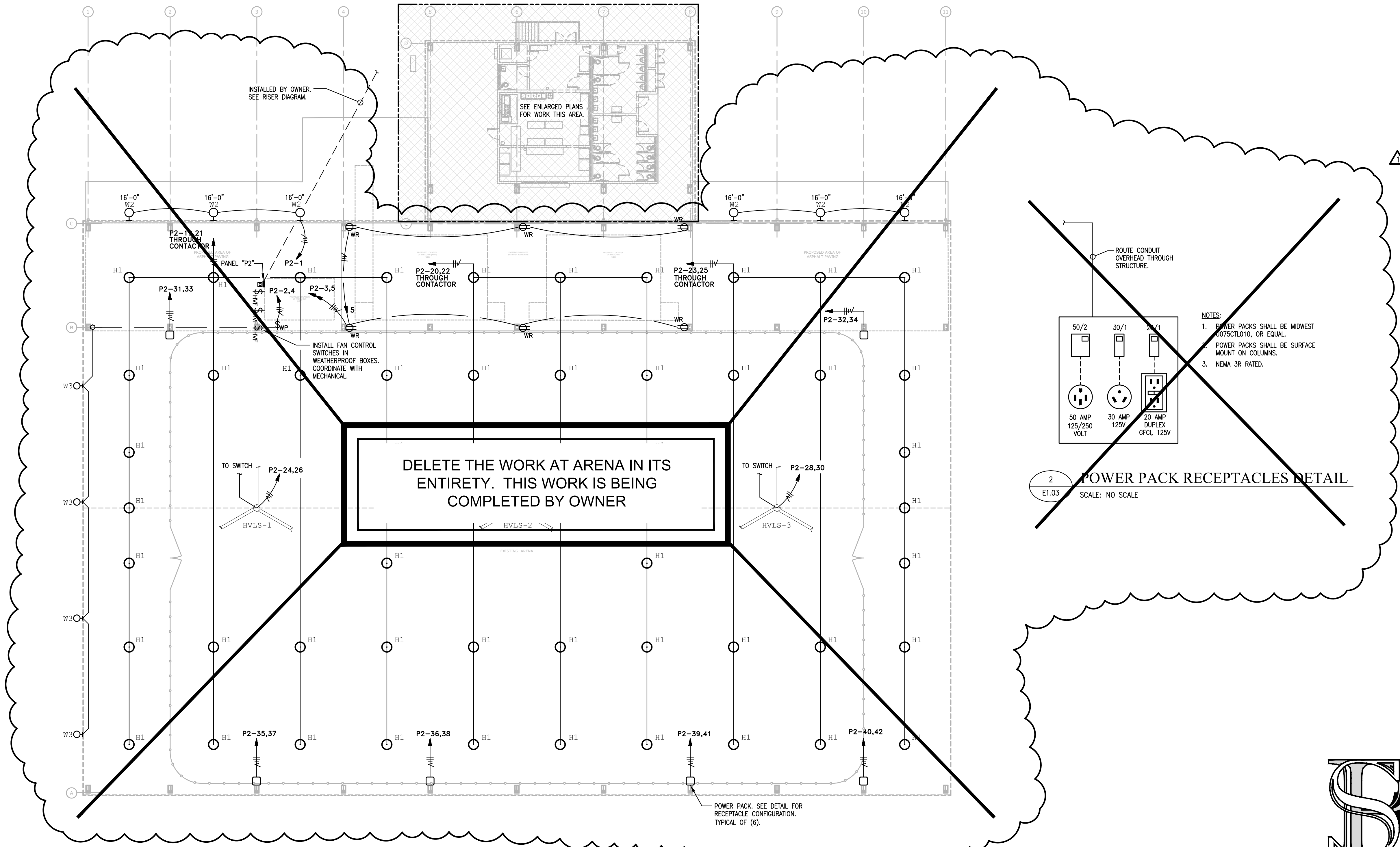
REVISIONS			DRAWING INFORMATION		
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.:	19141.000
0	05/20/25	WH	ISSUED FOR PERMIT	FILENAME:	25-SPE-02 EPLANS
1	12/10/25	GPW	ADDENDUM #3	SCALE:	AS NOTED
				SURVEYED BY:	
				DSGN:	WH DATE:
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				CHKD:	GPW DATE:
				QA/QC:	DATE:

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**EAST CENTRAL MULTI-PURPOSE ARENA
 CONCESSION AND RESTROOMS**
JACKSON COUNTY BOARD OF SUPERVISORS



ENLARGED POWER AND COMMUNICATIONS PLAN	
WORKING NUMBER: E1.01	DRAWING NUMBER:



1
E1.03
ARENA ELECTRICAL PLAN
SCALE: 1/16" = 1'-0"

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ELECTRICAL CONSULTANTS, PLLC
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GULFPORT, MISSISSIPPI 39503
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WEC PROJECT #: 25-SPE-02
MS CA : E-2625
SP ENGINEERING NO.: 240909

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1	12/10/25	GPW	ADDENDUM #3	SCALE:	AS NOTED
				SURVEYED BY:	
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				DRWN:	WH DATE:
				CHKD:	GPW DATE:
				QA/QC:	

**EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS**

JACKSON COUNTY BOARD OF SUPERVISORS

VERIFIED SCALES
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0 1'

GREGORY P. WYRO
REGISTERED PROFESSIONAL ENGINEER
05/19/25
STATE OF MISSISSIPPI

NEEL-SCHAFFER
Solutions you can build upon

ARENA ELECTRICAL PLAN	
WORKING NUMBER: E1.03	DRAWING NUMBER:

⚠️ PANEL "MDP" (BY OWNER)

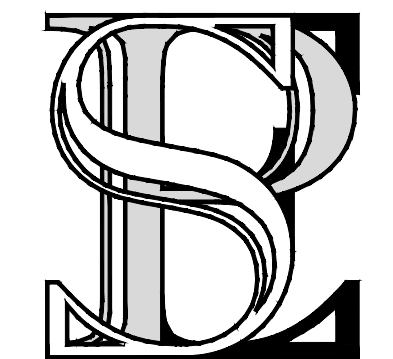
PANEL		BUSS: 400 AMP	VOLT: 120/240V, 1 PHASE, 3 WIRE				AIC RATING: 22,000					
MDP		MAINS: 400A M.B.	MOUNT: SURFACE, NEMA 1				LOCATION: BUILDING EXTERIOR					
CKT.	BKR.	DESCRIPTION	FEEDER	LOAD (AMPS)		LOAD (AMPS)		FEEDER	DESCRIPTION	BKR.	CKT.	
				A	C	A	C					
1											2	
3	30/2	TVSS UNIT	2-10, 1-10G							60/2	4	
5											6	
7	100/2	SPARE								225/2	8	
9	20/1	STEP SYSTEM PUMP	2-12, 1-12G	9.8		259.3		3-4/0, 1-4G	PANEL "P1"	225/2	10	
11							249.6				12	
				CONNECTED LOADS PER PHASE				A phase		269.1	amps	
								C phase		249.6	amps	

⚠️ PANEL "P1" (BY CONTRACTOR)

PANEL		BUSS: 225 AMP	VOLT: 120/240V, 1 PHASE, 3 WIRE				AIC RATING: 10,000					
P1		MAINS: 225A MLO	MOUNT: SURFACE, NEMA 1				LOCATION: ELECTRICAL ROOM 104					
CKT.	BKR.	DESCRIPTION	FEEDER	LOAD (AMPS)		LOAD (AMPS)		FEEDER	DESCRIPTION	BKR.	CKT.	
				A	C	A	C					
1	20/1	LIGHTS	2-12, 1-12G	10		10		2-12, 1-12G	EXTERIOR LIGHTS	20/1	2	
3	20/1	REC. - ROOF	2-12, 1-12G		3		7.5	2-12, 1-12G	REC. - STORAGE/SERVICE 102	20/1	4	
5	20/1	REC. - KITCHEN	2-12, 1-12G	6		6		2-12, 1-12G	REC. - KITCHEN	20/1	6	
7	20/1	REC. - FREEZER	2-12, 1-12G		8.5		6	2-12, 1-12G	REC. - KITCHEN	20/1	8	
9	20/1	REC. - FREEZER	2-12, 1-12G	8.5		6.2		2-12, 1-12G	REC. - REFRIGERATOR	20/1	10	
11	20/1	REC. - DRINK COOLER	2-12, 1-12G		6		6	2-12, 1-12G	REC. - DRINK COOLER	20/1	12	
13	20/1	REC. - KITCHEN	2-12, 1-12G	6		6		2-12, 1-12G	REC. - KITCHEN	20/1	14	
15	20/1	REC. - DRINK COOLER	2-12, 1-12G		6		12	2-12, 1-12G	REC. - ICE MACHINE	20/1	16	
17	20/1	REC. - HOOD CONTROLS/LIGHTS	2-12, 1-12G	3		3		2-12, 1-12G	REC. - EXTERIOR	20/1	18	
19	20/1	EXHAUST FAN TE-2	2-12, 1-12G		9.8		3	2-12, 1-12G	REC. - COMM. BOARD	20/1	20	
21	20/1	EXHAUST FAN TE-3	2-12, 1-12G	9.8		3		2-12, 1-12G	REC. - KITCHEN	20/1	22	
23	20/1	REC. - OVEN/FRYER	2-12, 1-12G		3		3	2-12, 1-12G	REC. - EXTERIOR	20/1	24	
25	ST	SHUNT TRIP	2-12, 1-12G				7.5	2-12, 1-12G	REC. - RESTROOMS	20/1	26	
27	20/1	REC. - EXTERIOR	2-12, 1-12G		3		4.5	2-12, 1-12G	REC. - EXTERIOR	20/1	28	
29	20/1	REC. - KITCHEN	2-12, 1-12G	3		3		2-12, 1-12G	REC. - CONCESSIONS	20/1	30	
31	20/2	REC. - CONCESSIONS	2-12, 1-12G		3		3	2-12, 1-12G	REC. - CONCESSIONS	20/1	32	
33	20/1	EXTERIOR WALL PACK LIGHTS	2-12, 1-12G	6					SPARE	20/1	34	
35	20/1	SPARE							SPARE	20/1	36	
37	20/1	SPARE							SPARE	20/1	38	
39	20/1	SPARE							SPARE	20/1	40	
41	20/1	SPARE							SPARE	20/1	42	
43	20/2	KEF-1	2-12, 1-12G		6.9		44	2-6, 1-10G	AH-1	60/2	44	
45				6.9		44					46	
47	30/2	WATER HEATER WH-1	2-10, 1-10G		20.8		30.2	2-8, 1-10G	HP-2B, AH-2A & AH-2B	40/2	48	
49				20.8		30.2					50	
51	40/2	KSF-1	2-8, 1-10G		29.3		31.1	2-8, 1-10G	HP-1	50/2	52	
53				29.3		31.1					54	
				CONNECTED LOADS PER PHASE				A phase		259.3	amps	
								C phase		249.6	amps	

⚠️ PANEL "P2" (BY OWNER)

PANEL		BUSS: 400 AMP	VOLT: 120/240V, 1 PHASE, 3 WIRE				AIC RATING: 22,000					
P2		MAINS: 400A M.B.	MOUNT: SURFACE, NEMA 3R				LOCATION: ELECTRICAL ROOM 104					
CKT.	BKR.	DESCRIPTION	FEEDER	LOAD (AMPS)		LOAD (AMPS)		FEEDER	DESCRIPTION	BKR.	CKT.	
				A	C	A	C					
1	20/1	WALL PACK LIGHTS	2-12, 1-12G	8		10		2-12, 1-12G	LIGHTS- RUN OUT AREA	20/2	2	
3	20/1	RECEPTACLES	2-12, 1-12G		4.5		10	2-12, 1-12G		20/1	4	
5	20/1	RECEPTACLES	2-12, 1-12G	4.5		3		2-12, 1-12G	TIME CLOCK	20/1	6	
7	20/1	SPARE							SPARE	20/1	8	
9	20/1	SPARE							SPARE	20/1	10	
11	20/1	SPARE							SPARE	20/1	12	
13	20/1	SPARE							SPARE	20/1	14	
15	20/1	SPARE						2-10, 1-10G	TVSS UNIT	30/2	16	
17	20/1	SPARE									18	
19											20	
21	20/2	ARENA LIGHTS	2-10, 1-10G	12		10		2-10, 1-10G	ARENA LIGHTS	20/2	22	
23	20/2	ARENA LIGHTS	2-10, 1-10G		10		7	2-10, 1-10G	FAN HVLS-1	20/2	24	
25				10		7					26	
27	20/2	FAN HVLS-2	2-10, 1-10G		7		7	2-10, 1-10G	FAN HVLS-3	20/2	28	
29				7		7					30	
31											32	
33	60/2	POWER PACK RECEPTACLES	3-6, 1-10G		40		40	3-6, 1-10G	POWER PACK RECEPTACLES	60/2	34	
35				40		40					36	
37	60/2	POWER PACK RECEPTACLES	3-6, 1-10G		40		40	3-6, 1-10G	POWER PACK RECEPTACLES	60/2	38	
39					40		40				40	
41	60/2	POWER PACK RECEPTACLES	3-6, 1-10G		40		40	3-6, 1-10G	POWER PACK RECEPTACLES	60/2	42	
				CONNECTED LOADS PER PHASE				A phase		318.5	amps	
								C phase		307.5	amps	



WELCON
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GULFPORT, MISSISSIPPI 39503
259.822.8000
WEC PROJECT #: 23-SPE-02

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REVISIONS				DRAWING INFORMATION			
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 19141.000			
0	05/20/25	WH	ISSUED FOR PERMIT	FILENAME: 25-SPE-02 EPLANS			
1	12/10/25	GPW	ADDENDUM #3	SCALE: AS NOTED			
				SURVEYED BY:			
				DSGN: WH	DATE:		
				DRWN: WH	DATE:		
				CHKD: GPW	DATE:		
				QA/QC:	DATE:		

EAST CENTRAL MULTI-PURPOSE ARENA
CONCESSION AND RESTROOMS

JACKSON COUNTY BOARD OF SUPERVISORS

VERIFIED SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

0 1'

GREGORY P. WYRO
REGISTERED PROFESSIONAL ENGINEER
05/19/25
STATE OF MISSISSIPPI



PANELBOARD SCHEDULES

WORKING NUMBER: E2.00

DRAWING NUMBER: